PORT OF TACOMA

PIER 4 PHASE 2
RECONFIGURATION
PROJECT NO. - 091251
CONTRACT NO. - 070136

PORT COMMISSIONERS:

CONSTANCE T. BACON
DON MEYER
DONALD C. JOHNSON
RICHARD P. MARZANO
CLARE PETRICH

PORT STAFF:

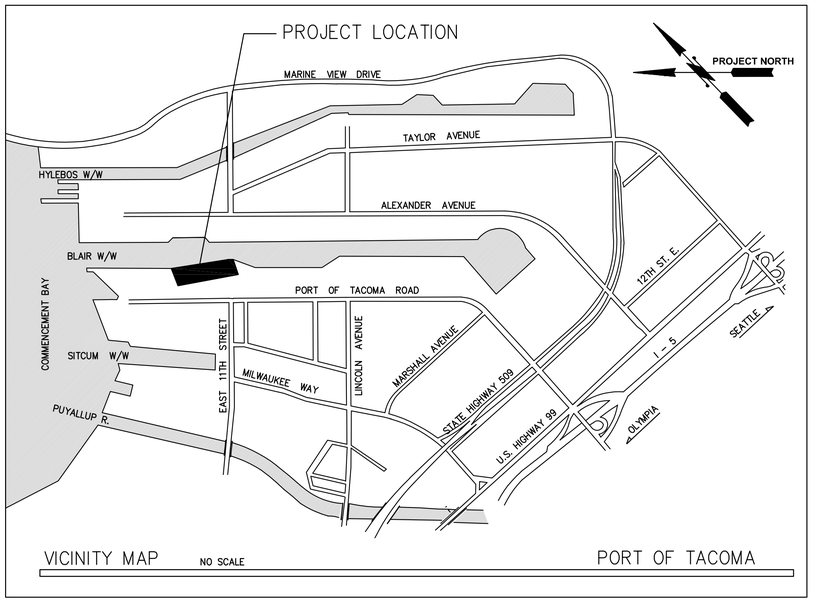
JOHN WOLFE
Chief Executive Officer

DAKOTA CHAMBERLAIN, PE
Chief Facilities
Development Officer

THAIS HOWARD, PE
Director of Engineering

TREVOR THORNSLEY, PE
Senior Project Manager

STAN RYTER, PE
Project Manager



CONSULTANTS:

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

HARTCROWSER
1700 Westlake Ave North, Suite 200
Seattle, Washington 98109-6212
Tele (206) 324-9530 Fax (206) 328-5581

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535358581

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PIER 4 PHASE 2
RECONFIGURATION
COVER SHEET

6552
G1.1
SH 1 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	

PROJ. ENGR		SECTION:	
PRINTED BY:	smillett Jul 16, 2018	VERT:	MLLW 19.39' @ Tide 22 1933
PORT ADDRESS:	ONE SITCUM PLAZA	DRAWING SCALE:	AS NOTED
	TACOMA, WA 98401-1837		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G1.1 (Cover Sheet)

SHEET #	SHEET DESIGNATION	SHEET TITLE
		GENERAL
1	G1.1	COVER SHEET
2	G2.1	SHEET INDEX - SHEET 1
3	G2.2	SHEET INDEX - SHEET 2
4	G2.3	SHEET INDEX - SHEET 3
5	G3.1	SYMBOLS AND ABBREVIATIONS
6	G3.2	GENERAL NOTES
7	G4.1	SURVEY CONTROL AND NOTES
8	G5.1	OVERALL SITE PLAN
9	G6.1	CONSTRAINTS AND ACCESS PLAN
10	G6.2	WORK OUTSIDE OF PROJECT WORK AREA LIMITS
11	G7.1	EXISTING CONDITIONS PLAN
12	G8.1	TESC GENERAL NOTES
13	G8.2	TESC PLAN - SHEET 1
14	G8.3	TESC PLAN - SHEET 2
15	G8.4	TESC PLAN - SHEET 3
16	G8.5	TESC PLAN - SHEET 4
17	G8.6	TESC DETAILS
18	G9.1	TEMPORARY OFF-SITE STORMWATER RE-ROUTE PLAN
19	G10.1	WORK AREA DESIGNATION PLAN
		DEMOLITION
20	D1.1	UTILITY AND SITE DEMOLITION PLAN - SHEET 1
21	D1.2	UTILITY AND SITE DEMOLITION PLAN - SHEET 2
22	D1.3	UTILITY AND SITE DEMOLITION PLAN - SHEET 3
23	D1.4	UTILITY AND SITE DEMOLITION PLAN - SHEET 4
24	D2.1	UTILITY AND SITE DEMOLITION DETAILS - SHEET 1
25	D2.2	UTILITY AND SITE DEMOLITION DETAILS - SHEET 2
26	D2.3	UTILITY AND SITE DEMOLITION DETAILS - SHEET 3
27	D3.1	PIER DECK DEMOLITION PLAN - SHEET 1
28	D3.2	PIER DECK DEMOLITION PLAN - SHEET 2
29	D3.3	PIER DECK DEMOLITION PLAN - SHEET 3
30	D3.4	PIER DECK DEMOLITION PLAN - SHEET 4
31	D4.1	PIER PILE CAP DEMOLITION AND PILE EXTRACTION PLAN - SHEET 1
32	D4.2	PIER PILE CAP DEMOLITION AND PILE EXTRACTION PLAN - SHEET 2
33	D4.3	PIER PLAN AT END OF DEMOLITION - SHEET 1
34	D4.4	PIER PLAN AT END OF DEMOLITION - SHEET 2
35	D5.1	PIER DEMOLITION SECTIONS - SHEET 1
36	D5.2	PIER DEMOLITION SECTIONS - SHEET 2
37	D5.3	PIER DEMOLITION SECTIONS - SHEET 3
38	D5.4	PIER DEMOLITION SECTIONS - SHEET 4
39	D5.5	PIER DEMOLITION SECTIONS - SHEET 5
		GROUND IMPROVEMENT
40	C1.1	GROUND IMPROVEMENT PLAN - SHEET 1
41	C1.2	GROUND IMPROVEMENT PLAN - SHEET 2
42	C1.3	GROUND IMPROVEMENT PLAN - SHEET 3
43	C1.4	GROUND IMPROVEMENT TYPICAL SECTION
44	C1.5	GROUND IMPROVEMENT DETAILS - SHEET 1
45	C1.6	GROUND IMPROVEMENT DETAILS - SHEET 2
		DREDGE
46	C2.1	DREDGE PLAN
47	C2.2	TYPICAL DREDGE SECTIONS - SHEET 1
48	C2.3	TYPICAL DREDGE SECTIONS - SHEET 2
49	C2.4	DREDGE SECTIONS - SHEET 1
50	C2.5	DREDGE SECTIONS - SHEET 2
51	C2.6	DREDGE DETAILS
		SLOPE PROTECTION
52	C3.1	SLOPE PROTECTION PLAN
53	C3.2	SLOPE PROTECTION SECTIONS - SHEET 1
54	C3.3	SLOPE PROTECTION SECTIONS - SHEET 2
55	C3.4	SLOPE PROTECTION SECTIONS - SHEET 3
55.1	C3.5	SLOPE PROTECTION SECTIONS - SHEET 4
		GRADING AND PAVING
56	C4.1	GRADING AND PAVING PLAN - SHEET 1
57	C4.2	GRADING AND PAVING PLAN - SHEET 2
58	C4.3	GRADING AND PAVING PLAN - SHEET 3
59	C4.4	GRADING AND PAVING PLAN - SHEET 4
60	C4.5	GRADING AND PAVING SECTIONS - SHEET 1
61	C4.6	GRADING AND PAVING SECTIONS - SHEET 2
62	C4.7	GRADING AND PAVING SECTIONS - SHEET 3
63	C4.8	GRADING AND PAVING DETAILS - SHEET 1
64	C4.9	GRADING AND PAVING DETAILS - SHEET 2
65	C4.10	GRADING AND PAVING DETAILS - SHEET 3
66	C4.11	GRADING AND PAVING DETAILS - SHEET 4
67	C4.12	SITE ENLARGED GRADING PLANS
68	C4.13	RESTROOM BUILDING DETAILS - SHEET 1
69	C4.14	RESTROOM BUILDING DETAILS - SHEET 2
70	C4.15	RESTROOM BUILDING DETAILS - SHEET 3
71	C4.16	RESTROOM BUILDING DETAILS - SHEET 4
72	C4.17	MARINE BUILDING ENLARGED GRADING PLAN
73	C4.18	MARINE BLDG GRADING AND PAVING SECTIONS - SHEET 1
74	C4.19	MARINE BLDG GRADING AND PAVING SECTIONS - SHEET 2
75	C4.20	MARINE BLDG GRADING AND PAVING DETAILS
		DRAINAGE
76	C5.1	DRAINAGE PLAN - SHEET 1
77	C5.2	DRAINAGE PLAN - SHEET 2
78	C5.3	DRAINAGE PLAN - SHEET 3
79	C5.4	DRAINAGE STRUCTURE SCHEDULE
80	C5.5	DRAINAGE PROFILES - SHEET 1
81	C5.6	DRAINAGE PROFILES - SHEET 2
82	C5.7	DRAINAGE PROFILES - SHEET 3
83	C5.8	DRAINAGE DETAILS - SHEET 1
83.1	C5.8A	OUTFALL #2 MODIFICATION
83.2	C5.8B	OUTFALL #3 REPAIR
84	C5.9	DRAINAGE DETAILS - SHEET 2
85	C5.10	DRAINAGE DETAILS - SHEET 3
86	C5.11	DRAINAGE DETAILS - SHEET 4
87	C5.12	DRAINAGE DETAILS - SHEET 5
		UTILITIES
88	C6.1	UTILITY PLAN - SHEET 1
89	C6.2	UTILITY PLAN - SHEET 2
90	C6.3	UTILITY PLAN - SHEET 3
91	C6.4	UTILITY PLAN - SHEET 4
92	C6.5	HYDRANT SCHEDULE AND ENLARGED PLAN
93	C6.6	WATER LINE PROFILES - SHEET 1
94	C6.7	WATER LINE PROFILES - SHEET 2
95	C6.8	WATER LINE PROFILES - SHEET 3
96	C6.9	UTILITY DETAILS - SHEET 1
97	C6.10	UTILITY DETAILS - SHEET 2
98	C6.11	UTILITY DETAILS - SHEET 3
99	C6.12	UTILITY DETAILS - SHEET 4
100	C6.13	UTILITY DETAILS - SHEET 5
101	C6.14	UTILITY DETAILS - SHEET 6
102	C6.15	RESTROOM BUILDING ENLARGED UTILITY PLAN
103	C6.16	UTILITY DETAILS - SHEET 7
104	C6.17	MARINE BUILDING ENLARGED UTILITY PLAN
105	C6.18	MARINE BUILDING SEWER PROFILE
106	C6.19	TYPICAL ELECTRICAL DUCTBANK PROFILE - SHEET 1
107	C6.20	TYPICAL ELECTRICAL DUCTBANK PROFILE - SHEET 2
108	C6.21	TYPICAL ELECTRICAL DUCTBANK PROFILE - SHEET 3
109	C6.22	UTILITY DETAILS - SHEET 8
110	C6.23	SANITARY SEWER LIFT STATION PLAN AND SECTION
110.1	C6.23A	SANITARY SEWER LIFT STATION ALTERNATE
		FENCING AND STRIPING
111	C7.1	STRIPING AND FENCING PLAN - SHEET 1
112	C7.2	STRIPING AND FENCING PLAN - SHEET 2
113	C7.3	STRIPING AND FENCING PLAN - SHEET 3
114	C7.4	ENLARGED FENCING PLANS
115	C7.5	STRIPING AND FENCING DETAILS - SHEET 1
116	C7.6	STRIPING AND FENCING DETAILS - SHEET 2
117	C7.7	STRIPING AND FENCING DETAILS - SHEET 3
118	C7.8	STRIPING AND FENCING DETAILS - SHEET 4

SHEET #	SHEET DESIGNATION	SHEET TITLE
		ELECTRICAL
119	E1.1	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
120	E2.1	SITE ELECTIRCAL DEMOLITION PLAN
121	E2.2	SITE ELECTRICAL DEMOLITION KEY PLAN
122	E2.3	ELECTRICAL DEMOLITION PLAN - SHEET 1
123	E2.4	ELECTRICAL DEMOLITION PLAN - SHEET 2
124	E2.5	ELECTRICAL DEMOLITION PLAN - SHEET 3
125	E2.6	ENLARGED ELECTRICAL DEMOLITION PLAN - SUBSTATION #8410
126	E2.7	ENLARGED ELECTRICAL DEMOLITION PLAN - MARINE BUILDING
127	E3.1	SITE ELECTRICAL PLAN
128	E3.2	SITE ELECTRICAL KEY PLAN
129	E3.3	ELECTRICAL PLAN - SHEET 1
130	E3.4	ELECTRICAL PLAN - SHEET 2
131	E3.5	ELECTRICAL PLAN - SHEET 3
132	E3.6	ENLARGED ELECTRICAL PLAN - SUBSTATION #8410
133	E3.7	SUBSTATION #8410 GROUND GRID
134	E3.8	ENLARGED ELECTRICAL PLAN - YARD ELECTRICAL DISTRIBUTION
135	E3.9	RESTROOM BUILDING ELECTRICAL PLAN
136	E3.10	PARTIAL SITE TEMPORARY LIGHTING PLAN
137	E5.1	SUBSTATION #8410 ONE-LINE DIAGRAM
138	E5.2	YARD ELECTRICAL ONE-LINE DIAGRAM
139	E5.3	PARTIAL SITE ONE-LINE DIAGRAM
140	E6.1	ELECTRICAL DETAILS
141	E6.2	ELECTRICAL DETAILS
142	E6.3	DUCTBANK SECTIONS
143	E6.4	DUCTBANK SECTIONS
144	E6.5	ELECTRICAL DETAILS
145	E6.6	PIER 4 YARD LIGHTING CONTROL PANEL
146	E6.7	ELECTRICAL DETAILS
147	E6.8	ELECTRICAL DETAILS
148	E6.9	PARTIAL ELECTRICAL WHARF PLAN - SHEET 1
149	E6.10	PARTIAL ELECTRICAL WHARF PLAN - SHEET 2
150	E6.11	PARTIAL ELECTRICAL WHARF PLAN - SHEET 3
151	E6.12	PARTIAL ELECTRICAL WHARF PLAN - SHEET 4
152	E6.13	PARTIAL ELECTRICAL WHARF PLAN - SHEET 5
153	E6.14	ENLARGED VAULT AND UTILITY TRENCH PLANS
154	E6.15	ENLARGED VAULT AND UTILITY TRENCH PLANS
155	E6.16	ENLARGED VAULT AND UTILITY TRENCH PLANS
156	E6.17	ENLARGED VAULT AND UTILITY TRENCH PLANS
157	E6.18	UTILITY TRENCH/ PILE CAP SECTIONS
158	E6.19	LIGHTING CONTROL DIAGRAMS
159	E6.20	VAULTS AND HANDHOLE SCHEDULE
160	E6.21	MANHOLE/ VAULT DETAILS
161	E6.22	BENT SECTIONS
162	E6.23	BENT SECTIONS
163	E7.1	PANEL SCHEDULE P42 AND RESTROOM BUILDING
164	E7.2	PANEL SCHEDULE MPZ-WYL03 & MPZ-YL05
165	E8.1	CONDUIT AND CONDUCTOR SCHEDULE
166	E8.2	CONDUIT AND CONDUCTOR SCHEDULE
167	E8.3	CONDUIT AND CONDUCTOR SCHEDULE
168	E8.4	CONDUIT AND CONDUCTOR SCHEDULE
169	E8.5	CONDUIT AND CONDUCTOR SCHEDULE
170	E8.6	CONDUIT AND CONDUCTOR SCHEDULE
171	E8.7	CONDUIT AND CONDUCTOR SCHEDULE
172	E8.8	CONDUIT AND CONDUCTOR SCHEDULE

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G2.1-G2.3 (Drawing List - Sheet 1)

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: kvang Jul 19, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

SHEET INDEX - SHEET 1

6552

G2.1

SH 2 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

SHEET #	SHEET DESIGNATION	SHEET TITLE
PIER STRUCTURAL		
173	S1.1	PIER STRUCTURAL NOTES - SHEET 1
174	S1.2	PIER STRUCTURAL NOTES - SHEET 2
175	S1.3	PIER STRUCTURAL NOTES - SHEET 3
176	S2.1	PIER PLAN
177	S3.1	PIER SURFACE FEATURES PLAN - SHEET 1
178	S3.2	PIER SURFACE FEATURES PLAN - SHEET 2
179	S4.1	PILE AND PILE CAP PLAN - SHEET 1
180	S4.2	PILE AND PILE CAP PLAN - SHEET 2
181	S4.3	PILE AND PILE CAP PLAN - SHEET 3
182	S4.4	PILE AND PILE CAP PLAN - SHEET 4
183	S4.5	PILE AND PILE CAP PLAN - SHEET 5
184	S5.1	PIER DECK PLAN - SHEET 1
185	S5.2	PIER DECK PLAN - SHEET 2
186	S5.3	PIER DECK PLAN - SHEET 3
187	S5.4	PIER DECK PLAN - SHEET 4
188	S5.5	PIER DECK PLAN - SHEET 5
189	S5.6	PIER PARTIAL PLANS AT PIER 3/4 JOINT
190	S6.1	OVERALL PIER CROSS SECTION AT PIER 3 BENT 67.6
191	S6.2	OVERALL PIER CROSS SECTION AT BENT 3
192	S6.3	OVERALL PIER CROSS SECTION AT BENT 9
193	S6.4	OVERALL PIER CROSS SECTION AT BENT 20
194	S6.5	OVERALL PIER CROSS SECTION AT BENT 25
195	S6.6	OVERALL PIER CROSS SECTION AT BENTS 29 TO 71
196	S6.7	PIER SECTIONS - SHEET 1
197	S6.8	PIER SECTIONS - SHEET 2
198	S6.9	PIER SECTIONS - SHEET 3
199	S6.10	PIER SECTIONS - SHEET 4
200	S6.11	PIER SECTIONS - SHEET 5
201	S6.12	PIER SECTIONS - SHEET 6
202	S6.13	PIER SECTIONS - SHEET 7
203	S6.14	PIER SECTIONS - SHEET 8
204	S6.15	PIER SECTIONS - SHEET 9
205	S6.16	PIER SECTIONS - SHEET 10
206	S6.17	PIER SECTIONS - SHEET 11
207	S6.18	PIER SECTIONS - SHEET 12
208	S7.1	PRECAST CONCRETE PILE - DETAILS
209	S7.2	PRECAST CONCRETE PILE - SCHEDULE
210	S8.1	PILE CONNECTION DETAILS
211	S8.2	PILE CONNECTION DETAILS
212	S9.1	PILE CAP REINFORCING ELEVATIONS - SHEET 1
213	S9.2	PILE CAP REINFORCING ELEVATIONS - SHEET 2
214	S9.3	PILE CAP REINFORCING ELEVATIONS - SHEET 3
215	S9.4	PILE CAP REINFORCING ELEVATIONS - SHEET 4
216	S9.5	PILE CAP REINFORCING ELEVATIONS - SHEET 5
217	S9.6	PILE CAP REINFORCING ELEVATIONS - SHEET 6
218	S9.7	PILE CAP REINFORCING ELEVATIONS - SHEET 7
219	S9.8	PILE CAP REINFORCING ELEVATIONS - SHEET 8
220	S9.9	PILE CAP REINFORCING ELEVATIONS - SHEET 9
221	S9.10	PILE CAP REINFORCING ELEVATIONS - SHEET 10
222	S9.11	PILE CAP REINFORCING ELEVATIONS - SHEET 11
223	S9.12	PILE CAP REINFORCING ELEVATIONS - SHEET 12
224	S9.13	PILE CAP REINFORCING ELEVATIONS - SHEET 13
225	S9.14	PILE CAP REINFORCING ELEVATIONS - SHEET 14
226	S9.15	PILE CAP REINFORCING ELEVATIONS - SHEET 15
227	S9.16	PILE CAP REINFORCING ELEVATIONS - SHEET 16
228	S10.1	PILE CAP SECTIONS AND DETAILS - SHEET 1
229	S10.2	PILE CAP SECTIONS AND DETAILS - SHEET 2
230	S10.3	PILE CAP SECTIONS AND DETAILS - SHEET 3
231	S10.4	PILE CAP SECTIONS AND DETAILS - SHEET 4
232	S10.5	PILE CAP SECTIONS AND DETAILS - SHEET 5
233	S10.6	PILE CAP SECTIONS AND DETAILS - SHEET 6
234	S10.7	PILE CAP SECTIONS AND DETAILS - SHEET 7
235	S10.8	PILE CAP SECTIONS AND DETAILS - SHEET 8
236	S10.9	PILE CAP SECTIONS AND DETAILS - SHEET 9
237	S10.10	PILE CAP SECTIONS AND DETAILS - SHEET 10
238	S10.11	PILE CAP SECTIONS AND DETAILS - SHEET 11
239	S10.12	PILE CAP SECTIONS AND DETAILS - SHEET 12

SHEET #	SHEET DESIGNATION	SHEET TITLE
PIER STRUCTURAL - CONTINUED		
240	S10.13	PILE CAP SECTIONS AND DETAILS - SHEET 13
241	S10.14	PILE CAP SECTIONS AND DETAILS - SHEET 14
242	S10.15	PILE CAP SECTIONS AND DETAILS - SHEET 15
243	S11.1	PONY BENT ELEVATIONS AND SECTIONS - SHEET 1
243.1	S11.1A	PONY BENT ELEVATIONS AND SECTIONS - T-CAP AT 5.5
243.2	S11.1B	PONY BENT ELEVATIONS AND SECTIONS - AT BENT 8.5
243.3	S11.1C	PONY BENT ELEVATIONS AND SECTIONS - AT BENT 58.5 AND 59.5
243.4	S11.1D	PONY BENT ELEVATIONS AND SECTIONS - AT BENT 33.5
244	S11.2	PONY BENT ELEVATIONS AND SECTIONS - SHEET 2
245	S11.3	PONY BENT ELEVATIONS AND SECTIONS - SHEET 3
246	S11.4	PONY BENT ELEVATIONS AND SECTIONS - SHEET 4
247	S11.5	PONY BENT ELEVATIONS AND SECTIONS - SHEET 5
248	S11.6	PONY BENT ELEVATIONS AND SECTIONS - SHEET 6
249	S11.7	BATTER PILE SUBCAP PLAN AND SECTION
250	S11.8	BATTER PILE SUBCAP PLANS
251	S11.9	BATTER PILE SUBCAP SECTIONS AND DETAIL
252	S12.1	SHEET PILE WALL CAP BEAM ELEVATIONS
253	S13.1	SHEET PILE WALL CAP BEAM SECTIONS AND DETAILS
254	S14.1	LANDSIDE CRANE BEAM ELEVATIONS - SHEET 1
255	S14.2	LANDSIDE CRANE BEAM ELEVATIONS - SHEET 2
256	S14.3	LANDSIDE CRANE BEAM ELEVATIONS - SHEET 3
257	S15.1	LANDSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 1
258	S15.2	LANDSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 2
259	S15.3	LANDSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 3
260	S16.1	WATERSIDE CRANE BEAM ELEVATIONS - SHEET 1
261	S16.2	WATERSIDE CRANE BEAM ELEVATIONS - SHEET 2
262	S16.3	WATERSIDE CRANE BEAM ELEVATIONS - SHEET 3
263	S16.4	WATERSIDE CRANE BEAM ELEVATIONS - SHEET 4
264	S17.1	WATERSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 1
265	S17.2	WATERSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 2
266	S18.1	BULLRAIL PLAN
267	S18.2	BULLRAIL ELEVATIONS - SHEET 1
268	S18.3	BULLRAIL ELEVATIONS - SHEET 2
269	S18.4	BULLRAIL ELEVATIONS - SHEET 3
270	S19.1	BULLRAIL SECTIONS AND DETAILS
271	S20.1	PIER ISOLATION JOINT PARTIAL PLANS - SHEET 1
272	S20.2	PIER ISOLATION JOINT PARTIAL PLANS - SHEET 2
273	S21.1	PIER ISOLATION JOINT DETAILS - SHEET 1
274	S21.2	PIER ISOLATION JOINT DETAILS - SHEET 2
275	S21.3	PIER ISOLATION JOINT DETAILS - SHEET 3
276	S21.4	PIER ISOLATION JOINT DETAILS - SHEET 4
277	S21.5	PIER ISOLATION JOINT DETAILS - SHEET 5
278	S22.1	CAST-IN-PLACE DECK PLANS
279	S22.2	CAST-IN-PLACE DECK SECTION
280	S22.3	CAST-IN-PLACE TOPPING SLAB - SHEET 1
281	S22.4	CAST-IN-PLACE TOPPING SLAB - SHEET 2
282	S22.5	CAST-IN-PLACE TOPPING SLAB - SHEET 3
283	S23.1	CAST-IN-PLACE CONCRETE DETAILS AT SHORE POWER VAULT
284	S24.1	CAST-IN-PLACE CONCRETE DETAILS AT CRANE POWER VAULT
285	S25.1	CAST-IN-PLACE CONCRETE DETAILS AT BULLRAIL UTILITY VAULT
286	S26.1	DECK PANEL SCHEDULE - SHEET 1
287	S26.2	DECK PANEL SCHEDULE - SHEET 2
288	S26.3	DECK PANEL SCHEDULE - SHEET 3
289	S26.4	DECK PANEL SCHEDULE - SHEET 4
290	S26.5	DECK PANEL SCHEDULE - SHEET 5
291	S27.1	DECK PANEL DETAILS - SHEET 1
292	S27.2	DECK PANEL DETAILS - SHEET 2
293	S27.3	DECK PANEL DETAILS - SHEET 3
294	S27.4	DECK PANEL DETAILS - SHEET 4
295	S27.5	DECK PANEL DETAILS - SHEET 5
296	S27.6	DECK PANEL DETAILS - SHEET 6
297	S27.6A	DECK PANEL DETAILS - SHEET 6A
298	S27.7	DECK PANEL DETAILS - SHEET 7
299	S27.7A	DECK PANEL DETAILS - SHEET 7A
300	S27.7B	DECK PANEL DETAILS - SHEET 7B
301	S27.8	DECK PANEL DETAILS - SHEET 8
302	S27.9	DECK PANEL DETAILS - SHEET 9

SHEET #	SHEET DESIGNATION	SHEET TITLE
PIER STRUCTURAL - CONTINUED		
303	S27.10	DECK PANEL DETAILS - SHEET 10
304	S27.11	DECK PANEL DETAILS - SHEET 11
305	S27.12	DECK PANEL DETAILS - SHEET 12
306	S27.13	DECK PANEL DETAILS - SHEET 13
307	S27.14	DECK PANEL DETAILS - SHEET 14
308	S27.15	DECK PANEL DETAILS - SHEET 15
309	S27.16	DECK PANEL DETAILS - SHEET 16
310	S27.16A	DECK PANEL DETAILS - SHEET 16A
311	S27.17	DECK PANEL DETAILS - SHEET 17
312	S27.18	DECK PANEL DETAILS - SHEET 18
313	S27.19	DECK PANEL DETAILS - SHEET 19
314	S27.20	DECK PANEL DETAILS - SHEET 20
315	S27.21	DECK PANEL DETAILS - SHEET 21
316	S27.22	DECK PANEL DETAILS - SHEET 22
317	S27.23	DECK PANEL DETAILS - SHEET 23
318	S27.23A	DECK PANEL DETAILS - SHEET 23A
319	S27.24	DECK PANEL DETAILS - SHEET 24
320	S27.25	DECK PANEL DETAILS - SHEET 25
321	S27.26	DECK PANEL DETAILS - SHEET 26
322	S27.27	DECK PANEL DETAILS - SHEET 27
323	S27.28	DECK PANEL DETAILS - SHEET 28
324	S27.29	DECK PANEL DETAILS - SHEET 29
325	S27.30	DECK PANEL DETAILS - SHEET 30
326	S27.31	DECK PANEL DETAILS - SHEET 31
327	S27.32	DECK PANEL DETAILS - SHEET 32
328	S27.33	DECK PANEL DETAILS - SHEET 33
329	S27.34	DECK PANEL DETAILS - SHEET 34
330	S27.35	DECK PANEL DETAILS - SHEET 35
331	S27.36	DECK PANEL DETAILS - SHEET 36
332	S27.37	DECK PANEL DETAILS - SHEET 37
333	S27.38	DECK PANEL DETAILS - SHEET 38
334	S27.39	DECK PANEL DETAILS - SHEET 39
335	S27.40	DECK PANEL DETAILS - SHEET 40
336	S27.41	DECK PANEL DETAILS - SHEET 41
337	S27.42	DECK PANEL DETAILS - SHEET 42
338	S27.43	DECK PANEL DETAILS - SHEET 43
339	S27.44	DECK PANEL DETAILS - SHEET 44
340	S27.45	DECK PANEL DETAILS - SHEET 45
341	S27.46	DECK PANEL DETAILS - SHEET 46
342	S27.47	DECK PANEL DETAILS - SHEET 47
343	S27.48	DECK PANEL DETAILS - SHEET 48
344	S27.49	DECK PANEL DETAILS - SHEET 49
345	S27.50	DECK PANEL DETAILS - SHEET 50
346	S27.51	DECK PANEL DETAILS - SHEET 51
347	S27.52	DECK PANEL DETAILS - SHEET 52
348	S27.53	DECK PANEL DETAILS - SHEET 53
349	S27.54	DECK PANEL DETAILS - SHEET 54
350	S27.55	DECK PANEL DETAILS - SHEET 55
351	S27.56	DECK PANEL DETAILS - SHEET 56
352	S28.1	CRANE RAIL ISOLATION JOINT DETAILS - SHEET 1
353	S28.2	CRANE RAIL ISOLATION JOINT DETAILS - SHEET 2
354	S29.1	WATER VAULT AT PIER 3 TO PIER 4 TRANSITION

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G2.1-G2.3 (Drawing List - Sheet 1)

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PIER 4 PHASE 2 RECONFIGURATION

SHEET INDEX - SHEET 2

6552
G2.2
SH 3 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: smillett Jul 18, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

SHEET #	SHEET DESIGNATION	SHEET TITLE
PIER STRUCTURAL - CONTINUED		
355	S30.1	SHORE POWER VAULT DETAILS - SHEET 1
356	S30.2	SHORE POWER VAULT DETAILS - SHEET 2
357	S31.1	CRANE POWER VAULT DETAILS - SHEET 1
358	S31.2	CRANE POWER VAULT DETAILS - SHEET 2
359	S31.3	CRANE POWER VAULT DETAILS - SHEET 3
360	S31.4	CRANE POWER VAULT DETAILS - SHEET 4
361	S31.5	CRANE POWER VAULT DETAILS - SHEET 5
362	S31.6	CRANE POWER VAULT DETAILS - SHEET 6
363	S31.7	FIBER OPTIC VAULT DETAILS
364	S32.1	CRANE CABLE SLOT DETAILS
365	S33.1	BULLRAIL UTILITY VAULT DETAILS
366	S34.1	CRANE PIN SOCKET DETAILS
367	S35.1	CRANE TIE-DOWN DETAILS - SHEET 1
368	S35.2	CRANE TIE-DOWN DETAILS - SHEET 2
369	S36.1	CRANE STOP DETAILS
370	S37.1	MISCELLANEOUS STEEL DETAILS
371	S37.2	LEAD RUBBER BEARING DETAILS
372	S38.1	BOLLARD DETAILS - PIER BOLLARD TYPE 1
373	S38.2	BOLLARD DETAILS - PIER BOLLARD TYPE 2
374	S38.3	BOLLARD DETAILS - PIER DOUBLE BITT BOLLARD
375	S38.4	BOLLARD DETAILS - MOORING DOLPHIN BOLLARD
376	S39.1	FENDER SYSTEM DETAILS
377	S40.1	CRANE RAIL DETAILS - SHEET 1
378	S40.2	CRANE RAIL DETAILS - SHEET 2
379	S41.1	STEEL SHEET PILE DETAILS
380	S42.1	MOORING DOLPHIN DETAILS
381	S43.1	GANGWAY PLATFORM PLAN AND DETAILS
382	S43.2	GANGWAY PLATFORM SECTIONS AND DETAILS
383	S43.3	GANGWAY PLATFORM DETAILS
384	S44.1	STRUCTURAL REPAIR PLANS - SHEET 1
385	S44.2	STRUCTURAL REPAIR PLANS - SHEET 2
386	S44.3	STRUCTURAL REPAIR DETAILS
387	S45.1	HIGH-MAST LIGHT POLE FOUNDATION DETAILS
388	S46.1	PILE CAP TAB OUT DETAILS - SHEET 1
389	S46.2	PILE CAP TAB OUT DETAILS - SHEET 2

SHEET #	SHEET DESIGNATION	SHEET TITLE
MARINE BUILDING SET		
388	G1.00	COVER SHEET
389	G2.00	SHEET INDEX
390	G2.01	GENERAL NOTES AND SYMBOLS
391	G2.02	ABBREVIATIONS
392	G2.03	MOUNTING HEIGHT NOTES
393	G3.01	OCCUPANCY TYPES AND LOADS
394	G3.02	BUILDING CODE, FIRE AND LIFE SAFETY SUMMARY
395	G3.03	BUILDING CODE, FIRE AND LIFE SAFETY SUMMARY
396	G3.04	BUILDING CODE, FIRE AND LIFE SAFETY SUMMARY
397	G3.05	BUILDING CODE, FIRE AND LIFE SAFETY SUMMARY
398	G4.01	3D VIEWS
399	A1.01	ENLARGED ARCHITECTURAL / CODE SITE PLAN
400	A2.01	FLOOR PLANS
401	A2.02	DIMENSION PLANS
402	A2.10	ENLARGED FLOOR PLANS
403	A3.01	ROOF PLAN
404	A4.01	REFLECTED CEILING PLANS
405	A5.01	EXTERIOR ELEVATIONS
406	A6.01	BUILDING SECTIONS
407	A6.10	WALL SECTIONS
408	A6.11	WALL SECTIONS
409	A6.12	WALL SECTIONS
410	A7.00	VERTICAL CIRCULATION
411	A7.01	VERTICAL CIRCULATION
412	A8.01	INTERIOR ELEVATIONS
413	A8.02	INTERIOR ELEVATIONS
414	A8.03	INTERIOR ELEVATIONS
415	A8.04	INTERIOR ELEVATIONS
416	A20.00	FOUNDATION DETAILS
417	A21.00	FLOOR TYPES AND FLOOR DETAILS
418	A30.00	WALL TYPE NOTES
419	A31.00	WALL TYPES
420	A31.01	EXTERIOR WALL DETAILS
421	A31.02	EXTERIOR WALL DETAILS
422	A31.03	EXTERIOR WALL DETAILS
423	A31.04	EXTERIOR WALL DETAILS
424	A40.01	ROOF DETAILS AND ROOF TYPES
425	A40.02	ROOF DETAILS
426	A40.03	ROOF DETAILS
427	A40.04	ROOF DETAILS
428	A40.05	ROOF DETAILS
429	A40.06	ROOF DETAILS
430	A50.00	VERTICAL CIRCULATION DETAILS
431	A50.01	VERTICAL CIRCULATION DETAILS
432	A50.02	VERTICAL CIRCULATION DETAILS
433	A50.03	VERTICAL CIRCULATION
434	A60.00	LOUVER, DOOR, FRAME, AND GLAZING NOTES
435	A61.00	DOOR TYPES AND SCHEDULES
436	A61.01	HOLLOW METAL DETAILS
437	A63.00	FRAME TYPES AND SCHEDULES
438	A63.01	ALUMINUM FRAME DETAILS
439	A63.02	ALUMINUM FRAME DETAILS
440	A66.00	OPENING PREPARATION
441	A70.00	ROOM FINISH SCHEDULE
442	A71.00	COLOR AND MATERIAL SCHEDULE
443	A72.00	INTERIOR DETAILS
444	A73.00	SIGNAGE SCHEDULE
445	A80.00	CASEWORK SCHEDULE
446	S1.01	STRUCTURAL NOTES AND DRAWING LIST
447	S1.02	STRUCTURAL NOTES, DRAWING SYMBOLS AND ABBREVIATIONS
448	S1.03	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
449	S1.04	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
450	S1.05	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
451	S1.06	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
452	S1.07	LOAD MAP

SHEET #	SHEET DESIGNATION	SHEET TITLE
MARINE BUILDING SET - CONTINUED		
453	S2.01	FOUNDATION AND LEVEL 1 FLOOR PLAN
454	S2.02	LEVEL 2 FLOOR PLAN
455	S2.03	ROOF PLAN
456	S3.01	BUILDING ELEVATIONS
457	S3.02	BUILDING SECTIONS
458	S3.11	BRACE FRAME ELEVATIONS
459	S3.12	BRACE FRAME DETAILS
460	S3.13	BRACE FRAME DETAILS
461	S4.01	CONCRETE DETAILS
462	S5.01	TYPICAL STEEL DETAILS
463	S5.02	TYPICAL STEEL DETAILS
464	S5.03	TYPICAL STEEL DETAILS
465	S5.04	TYPICAL STEEL DETAILS
466	S5.05	STEEL DETAILS
467	S5.06	STEEL DETAILS
468	S5.07	STEEL DETAILS
469	S6.01	TYPICAL WOOD DETAILS
470	M1.01	SCHEDULES
471	M1.02	SCHEDULES
472	M2.01	LEVEL 1 UNDERGROUND PLUMBING PLAN
473	M3.01	LEVEL 1 AND 2 PLUMBING PLAN
474	M4.01	MECHANICAL HVAC PLANS
475	M4.02	REFLECTED CEILING AND HVAC PLAN
476	M4.03	ROOFTOP MECHANICAL HVAC PLAN
477	M6.01	MECHANICAL DETAILS
478	M6.02	MECHANICAL DETAILS
479	M7.01	MECHANICAL CONTROLS
480	FX0.01	FIRE PROTECTION LEGEND, DESIGN CRITERIA AND FLOW TEST INFORMATION
481	FX0.02	FIRE PROTECTION FLOOR PLAN CONST., GENERAL, AND SPECIAL NOTES
482	FX0.03	FIRE PROTECTION RISER DETAIL PLAN, ELEVATIONS, EQUIP. LIST, AND NOTES
483	FX2.01	FIRE PROTECTION FIRST AND SECOND FLOOR PLANS
484	FA0.01	FIRE ALARM LEGEND AND NOTES
485	FA0.02	FIRE ALARM SEQUENCE OF OPERATIONS AND RISER DIAGRAM
486	FA2.01	LEVEL 1 AND LEVEL 2 FIRE ALARM FLOOR PLAN
487	E0.01	ELECTRICAL LEGEND
488	E1.00	ELECTRICAL FIXTURE SCHEDULE AND MECHANICAL CONNECTION SCHEDULE
489	E2.01	LEVEL 1 AND LEVEL 2 LIGHTING PLAN
490	E3.01	LEVEL 1 AND LEVEL 2 POWER PLAN
491	E3.02	ROOF POWER PLAN
492	E4.01	LEVEL 1 AND LEVEL 2 SYSTEMS PLAN
493	E4.02	ROOF SYSTEMS PLAN
494	E5.01	ELECTRICAL DETAILS
495	E5.02	ELECTRICAL DETAILS
496	E5.03	ELECTRICAL DETAILS
497	E5.04	ELECTRICAL DETAILS
498	E6.01	POWER RISER DIAGRAM
499	E6.02	PANEL SCHEDULE

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G2.1-G2.3 (Drawing List - Sheet 1)

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535535841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY:	smillett Jul 18, 2018	PROJ. ENGR	DATE
PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
SHEET INDEX - SHEET 3

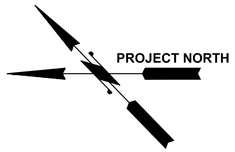
CONT/CONS:	0701136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide 22 1933		

6552
G2.3
SH 4 OF 499

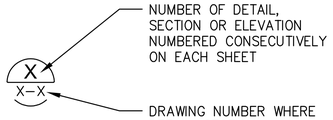
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

SYMBOLS



NORTH ARROW



NUMBER OF DETAIL, SECTION OR ELEVATION NUMBERED CONSECUTIVELY ON EACH SHEET

DRAWING NUMBER WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN, "–" IF SAME DRAWING



SECTION



ELEVATION

X – DETAIL/SECTION
NTS

PLAN
NTS

0 40 80 120
SCALE IN FEET

SURVEY CONTROL POINT

POT CONTROL POINT

N XXXX
E XXXX
COORDINATES

67
INDICATES PIER 3 OR EXIST PIER 4 BENT NUMBERS

71
INDICATES NEW PIER 4 BENT NUMBERS

SYMBOLS - CONTINUED

EXISTING STORM DRAIN

EXISTING SANITARY SEWER

EXISTING BELOW GROUND FIBER OPTIC

EXISTING DOMESTIC WATER

EXISTING FIRE WATER

EXISTING BURIED POWER

EXISTING TELEPHONE

EXISTING EDGE OF PAVEMENT

EXISTING WATER

EXISTING TYPE B SHIP BUMPER

EXISTING TYPE A SHIP BUMPER

EXISTING CRANE STOP BAR

EXISTING STOW PIN

EXISTING SHIP TIE DOWN

EXISTING ELECTRICAL VAULT

EXISTING TELEPHONE VAULT

EXISTING LIGHT STANDARD

EXISTING PEDESTRIAN WALK SYMBOL

EXISTING STORM DRAIN MANHOLE

EXISTING SANITARY SEWER CLEANOUT

EXISTING BOLLARD

EXISTING CATCH BASIN

EXISTING WATER VALVE

EXISTING HANDICAP RAMP

EXISTING SANITARY SEWER CLEANOUT

EXISTING WHARF ACCESS MANHOLE

EXISTING WATER MANHOLE

EXISTING WATER METER

EXISTING POWER VAULT

ABBREVIATIONS

#	NUMBER
ø	DIAMETER
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CONCRETE PIPE OR ASPHALTIC CONCRETE PAVEMENT
ACPA	AMERICAN CONCRETE PIPE ASSOCIATION
ADDL	ADDITIONAL
ADJ	ADJACENT
ADMIN	ADMINISTRATION
AGGR	AGGREGATE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APP or APPVD	APPROVED
APPROX	APPROXIMATE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
AVR	AIR & VACUUM RELEASE VALVE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BLDG	BUILDING
BM	BENCH MARK or BEAM
BMP or BMP'S	BEST MANAGEMENT PRACTICES
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRG	BEARING
BRZ	BRONZE
BTW or BTWN	BETWEEN
BV	BALL VALVE
C.Y.	CONTAINER YARD OR CUBIC YARD
C/L	CENTERLINE
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CC	CENTER TO CENTER
CDF	CONTROL DENSITY FILL
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIP	CAST IRON PIPE
CL	CENTER LINE or CLASS
CLF	CHAIN LINK FENCE
CLR	CLEAR or CLEARANCE
CMB	CRUSHED MISCELLANEOUS BASE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMPR	COMPRESSOR
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINUE or CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COUP	COUPLING
CPT	CONE PENETROMETER TEST
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSBC	CRUSHED SURFACING BASE COURSE
CSG	CASING
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CV	CHECK VALVE
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DS	DOWN SPOUT
DW	DOMESTIC WATER
DWG	DRAWING
DWY	DRIVEWAY
E	EAST or EASTING
EA	EACH
EG	EXISTING GRADE
EL or ELEV	ELEVATION
ELEC or ELECT	ELECTRICAL
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EQ	EQUAL
ES	ELECTRICAL SUBSTATION
ETC	ET CETERA
EX or EXIST	EXISTING
EXP. JT	EXPANSION JOINT
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	PORT FIRE HYDRANT
FH	FINISH
FL	FLOW LINE
FLGD	FLANGED JOINT
FM	FORCE MAIN
FRP	FIBER REINFORCED PLASTIC
FS	FINISHED SURFACE
FSM	FIRE SERVICE METER
FT	FOOT, FEET
FW	FIRE WATER
G	GAS
GIS	GEOGRAPHIC INFORMATION SYSTEM
GPS	GLOBAL POSITIONING SYSTEM
GV	GATE VALVE
H or HORIZ	HORIZONTAL
HAZMAT	HAZARDOUS MATERIALS
HCS	HOUSE CONNECTION SEWER
HDPE	HIGH DENSITY POLYETHYLENE
HOWL	HIGHEST OBSERVED WATER LEVEL
HP	HIGH PRESSURE or HIGH POINT
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INV	INVERT
JB	JUNCTION BOX
JS	JUNCTION STRUCTURE
JT	JOINT
KIP(S)	KILOPOUND(S)
L	LENGTH
LAT	LATERAL
LCB	LANDSIDE CRANE BEAM
LF	LINEAL FOOT
LIN	LINEAL or LINEAR
LOL	LAYOUT LINE
LOWL	LOWEST OBSERVED WATER LEVEL
LP	LOW POINT
LRB	LEAD–RUBBER BEARING
LT.	LEFT
LTP	LIGHT POLE
M&R	MAINTENANCE AND REPAIR
M–ARV	MANUAL AIR RELIEF VALVE
MAT	MATERIAL
MAX	MAXIMUM
ME	MATCH EXISTING
MFR	MANUFACTURER
MH	MANHOLE
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MI	MALLEABLE IRON
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MNSB	MINIMUM SET BACK
MSL	MEAN SEA LEVEL
MSP	MAUNUAL OF STANDARD PRACTICE
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
MW	MODULAR WETLAND
N	NORTH or NORTHING
NDT	NON–DESTRUCTIVE TESTING
NE	NORTH–EAST
NF	NEAR FACE
NIC	NOT IN CONTRACT
No.	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORTH–WEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OVH	OVERHEAD
OHWL	ORDINARY HIGH WATER LINE
OW	OIL/WATER SEPARATOR
P/L or PL	PROPERTY LINE
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PE	PUSH–ON PLAIN END
PERF	PERFORATED
PERP	PERPENDICULAR
PJ	PUSH–ON JOINT
PL	PLATE
POT	PORT OF TACOMA
PP	POWER POLE
PR	PRESSURE RATING
PRESS	PRESSURE
PRESS RED	PRESSURE REDUCER
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PRVS	PRESSURE RELIEF VALVE
PSE	PUGET SOUND ENERGY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL CURVE
PVMT	PAVEMENT
R	RIDGE or RADIUS
R/W OR ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RED	REDUCER
REF	REFERENCE
REINF	REINFORCE OR REINFORCING
REQ'D	REQUIRED
RP	RADIUS POINT
RR	RAILROAD
RT.	RIGHT
S	SLOPE
S	SOUTH
SAHS	SALTCHUK AQUATIC HABITAT SITE
SCH or SCHED	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SE	SOUTH–EAST
SECT	SECTION
SERV	SERVICE
SHT	SHEET
SIM	SIMILAR
SJ	SLIP JOINT
SPECS	SPECIFICATIONS
SQFT	SQUARE FEET
SS	SANITARY SEWER
SSFM	SANITARY SEWER FORCE MAIN
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL
SW	SOUTH–WEST
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
SYM	SYMMETRIC or SYMBOL
T/R or TOR	TOP OF RAIL
TB	THRUST BLOCK
TBM	TEMPORARY BENCH MARK
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TG	TOP OF GRATE
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TOP	TOP OF PIPE or TOP OF SLOPE
TOR	TOP OF RAIL
TS	TRANSITION STRUCTURE
TW	TOP OF WALL
TYP	TYPICAL
UB	UPLAND BORING
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
VAC	VACUUM
VAR	VARIABLE or VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER, WEST, WIDTH
W/	WITH
W/O	WITHOUT
WABO	WASHINGTON ASSOCIATION OF BUILDING ASSOCIATES
WCB	WATERSIDE CRANE BEAM
WF	WATER FITTING
WELD	WELDING
WHS	WELDED HEADED STUD
WM	WATER METER
WOB	WHARF OFFSHORE BORING
WP	WORK POINT
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WT	PORT WATER TEE
WV	WATER VAULT
WWAY	WALKWAY
WWR	WELD WIRE REINFORCEMENT
XS	EXTRA STRONG

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535358581

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

APPROVED:

DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
SYMBOLS AND ABBREVIATIONS

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

DATE	PROJ. ENGR
Jul 17, 2018	smillett

SECTION:	PRINTED BY:

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

6552
G3.1
SH 5 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\0912251-G3.1 (Symbols and Abbreviations)

BINDING EDGE

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS AND THE CURRENT VERSION OF THE CITY OF TACOMA STANDARDS.

2. CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE PLANS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ENGINEER BEFORE PROCEEDING. DIMENSIONS AND CALLOUTS NOTED AS PLUS OR MINUS (±) OR (REF) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY THE ENGINEER IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM AS INDICATED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS – DO NOT SCALE THE PLANS.

3. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREIN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS, SPECIFICALLY PIPE SIZES PRIOR TO CONSTRUCTION, AND BRING ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK TO THE ENGINEER'S ATTENTION.

4. THE EXISTING PIER 4 STRUCTURE AND SITE UTILITIES HAVE UNDERGONE NUMEROUS REPAIR AND UPGRADE PROJECTS SINCE THE TIME OF THE ORIGINAL CONSTRUCTION. THESE REPAIRS MAY NOT ALL BE REFLECTED IN THESE CONTRACT DOCUMENTS REFERENCE DRAWINGS FOR THESE CONTRACTS ARE AVAILABLE FROM THE PORT OF TACOMA.

5. A COPY OF THE PLANS SHALL BE ON–SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THROUGHOUT THE PROGRESS OF THE WORK OF THIS CONTRACT, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES IN THE CONTRACT DOCUMENTS. UPON THE COMPLETION OF THIS CONTRACT, PROVIDE ONE COMPLETE SET OF RECORD DOCUMENTS TO THE PORT OF TACOMA.

6. THE CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE PROJECT SITE PRIOR TO WORK. CONTRACTOR SHALL CONTACT 811 "CALL BEFORE YOU DIG" AND AN INDEPENDENT LOCATING SERVICE TO LOCATE ALL UTILITIES AT LEAST 48 HOURS PRIOR TO WORK.

7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES AND OTHER FEATURES THAT MAY IMPACT THE WORK. CONTRACTOR SHALL BRING ANY CONFLICTS TO THE ENGINEER'S ATTENTION PRIOR TO BEGINNING AFFECTED WORK.

8. ANY DAMAGE TO EXISTING UTILITIES, OTHER FACILITIES OR EQUIPMENT DUE TO THE CONTRACTOR'S NEGLIGENCE, EXCEPT FOR ITEMS DESIGNATED FOR DEMOLITION, SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA AND WITHIN THE PORT OF TACOMA PROPERTY THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT.

9. PRIOR TO LAYING PIPE, THE CONTRACTOR SHALL EXPOSE EXISTING WATER, STORM WATER AND SEWER PIPING AT CONNECTION POINTS TO VERIFY THAT FIELD CONDITIONS MATCH INFORMATION SHOWN ON THE PLANS, SPECIFICALLY THE LOCATION, ELEVATION, DIAMETER, AND MATERIAL OF EXISTING PIPE. CONTRACTOR SHALL CONTACT THE ENGINEER IF DISCREPANCIES ARE DISCOVERED.

10. ALL UNDERGROUND AND AT GRADE STRUCTURES INCLUDING MANHOLES, CATCH BASINS, HAND HOLES, VAULTS, CLEANOUTS AND OTHER STRUCTURES, INCLUDING ALL RINGS, COVERS, HATCHES, GRATES AND OTHER FEATURES WHICH MAY APPLY, SHALL BE DESIGNED TO ACCOMMODATE LOADING CRITERIA OUTLINED ON SHEET S1.2. CONTRACTOR SHALL SUBMIT STAMPED AND SIGNED SHOP DRAWINGS AND CALCULATIONS COMPLETED BY A WASHINGTON STATE REGISTERED STRUCTURAL ENGINEER.

11. THE GROUNDWATER TABLE RANGES BETWEEN APPROXIMATE ELEVATION +6' TO +11' MLLW, BUT VARIES DEPENDING ON LOCATION, SEASON AND TIDES. DEWATERING MAY BE REQUIRED FOR INSTALLATION OF UTILITY LINES AND STRUCTURES. SEE SPECIFICATIONS FOR REQUIREMENTS. GROUNDWATER ELEVATION FOR THE DESIGN OF ALL PERMANENT UNDERGROUND STRUCTURES SHALL BE AT ELEVATION +11.8 FEET. SEE SPECIFICATIONS FOR REQUIREMENTS.

12. ALL ACTIVATION AND DEACTIVATION OF UTILITIES SHALL BE COORDINATED WITH THE ENGINEER IN ADVANCE. PROVIDE A MINIMUM OF 3 DAYS ADVANCE WRITTEN NOTICE TO THE ENGINEER.

13. SHORING AND EXCAVATION SHALL BE IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

14. THE CONTRACTOR SHALL KEEP ALL STREETS AND VEHICULAR TRAFFIC AREAS USED FOR THIS WORK CLEAN AT ALL TIMES, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

15. CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROLS REQUIRED DURING THE DURATION OF THIS PROJECT, PER CONTRACTOR'S OPERATION. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

16. MAINTAIN UTILITY SERVICE TO EXISTING BUILDINGS, BULLRAIL UTILITIES AND FIRE HYDRANTS DURING CONSTRUCTION UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER. INSTALL NEW UTILITY LINES TO POINTS OF CONNECTION TO EXISTING UTILITY LINE PRIOR TO DEMOLITION OF THE EXISTING LINES, UNLESS NOTED OTHERWISE. WATER SERVICE SHUTDOWNS WILL BE LIMITED TO 2 HOURS FOR EACH UTILITY CROSSOVER AND SHALL BE COORDINATED WITH THE ENGINEER. POWER AND COMMUNICATION SHUTDOWNS WILL BE LIMITED TO 8 HOUR SHUTDOWNS AND SHALL BE COORDINATED WITH THE ENGINEER, UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER. SEE SPECIFICATIONS FOR FURTHER SHUTDOWN REQUIREMENTS.

17. WHERE INDICATED ON THESE PLANS THE PROJECT SPECIFIC ORDINARY HIGH WATER MARK (OHWM) REPRESENTS THE OHWM PRIOR TO THE DREDGING WORK SHOWN HEREIN.

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 | Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | PROJ. ENGR DATE | CHECKED BY DATE

PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

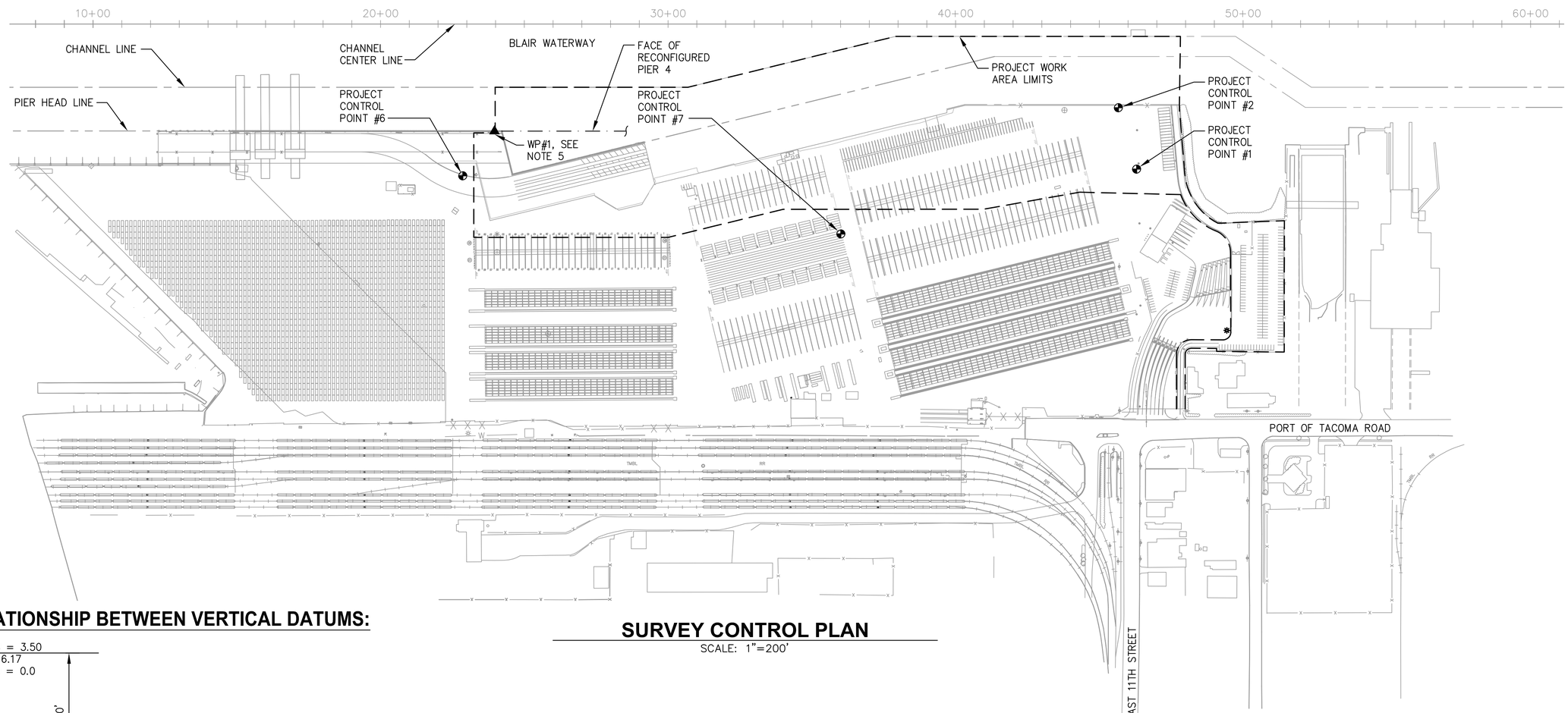
PIER 4 PHASE 2
RECONFIGURATION
GENERAL NOTES

6552
G3.2
SH 6 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

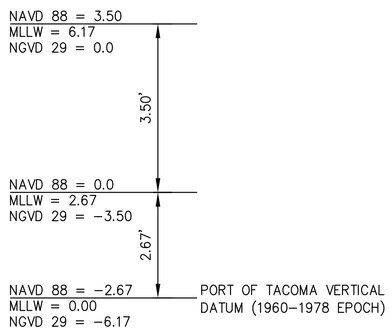
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G3.2 (General Notes)



SURVEY CONTROL PLAN

SCALE: 1"=200'

RELATIONSHIP BETWEEN VERTICAL DATUMS:



SURVEY AND DATUM INFORMATION:

1. BATHYMETRIC SURVEY BY SOLMAR HYDRO AND SITTS + HILL ENGINEERS INC. DATED JULY, 2013.
2. UPLAND SURVEY BY KPFF CONSULTING ENGINEERS DATED JANUARY 2013.
3. DATUM INFORMATION:
   HORIZONTAL DATUM: WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/07.

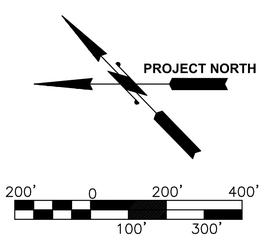
   VERTICAL DATUM: TIDAL DATUM MLLW = 0.00'
4. UPLAND SURVEY TIES TO PORT OF TACOMA SURVEY CONTROL POINTS AS SHOWN ON PORT OF TACOMA 2007 SURVEY CONTROL MAP TITLED "BLAIR−HYLEBOS PENINSULA CONTROL MAP." PREPARED BY PARAMETRIX DATED JANUARY 7, 2008.
5. FACE OF PIER IS DEFINED BY WP#1 AND PROJECT NORTH BEARING, SEE SHEET S4.1 FOR LOCATION OF WP#1, (FACE OF PIER DIFFERS FROM THE PIERHEAD LINE). PROJECT NORTH BEARING IS N 45° 53' 50"W.

TIDAL INFORMATION:

1. TIDAL INFORMATION OBTAINED FROM NOAA WEBSITE FOR STATION 9446484 FOR THE 1983−2001 EPOCH.

HOWL	=	14.55'
MHHW	=	11.80'
MHW	=	10.92'
MSL	=	6.85'
MLW	=	2.85'
MLLW	=	0.0'
LOWL	=	−4.71'

2. PROJECT SPECIFIC ORDINARY HIGH WATER MARK (OHWM) EL = 12.78', PRIOR TO DREDGING, AS IDENTIFIED BY WASHINGTON DEPARTMENT OF FISH AND WILDLIFE (WDFW).



SCALE: 1"=200'

SURVEY CONTROL POINTS

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
SY0536	710149.55	1165758.55	19.39	DISK SET IN CONCRETE SIDEWALK AT THE EAST END OF 11TH ST BRIDGE
925	710501.70	1166151.91	17.30	MNCS−WSDOT MON AT 11TH AVE/THORN
1	712109.00	1167747.77	18.04	MAG NAIL
2	712306.49	1167850.98	17.34	MAG NAIL
6	713723.48	1166048.58	16.73	MAG NAIL
7	712662.85	1166852.22	16.17	MAG NAIL

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:
CHECKED BY DATE
DIRECTOR ENG. DATE PROJ. ENGR DATE
PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401−1837

PIER 4 PHASE 2 RECONFIGURATION

SURVEY CONTROL AND NOTES

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT−HRZ: WA83−SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

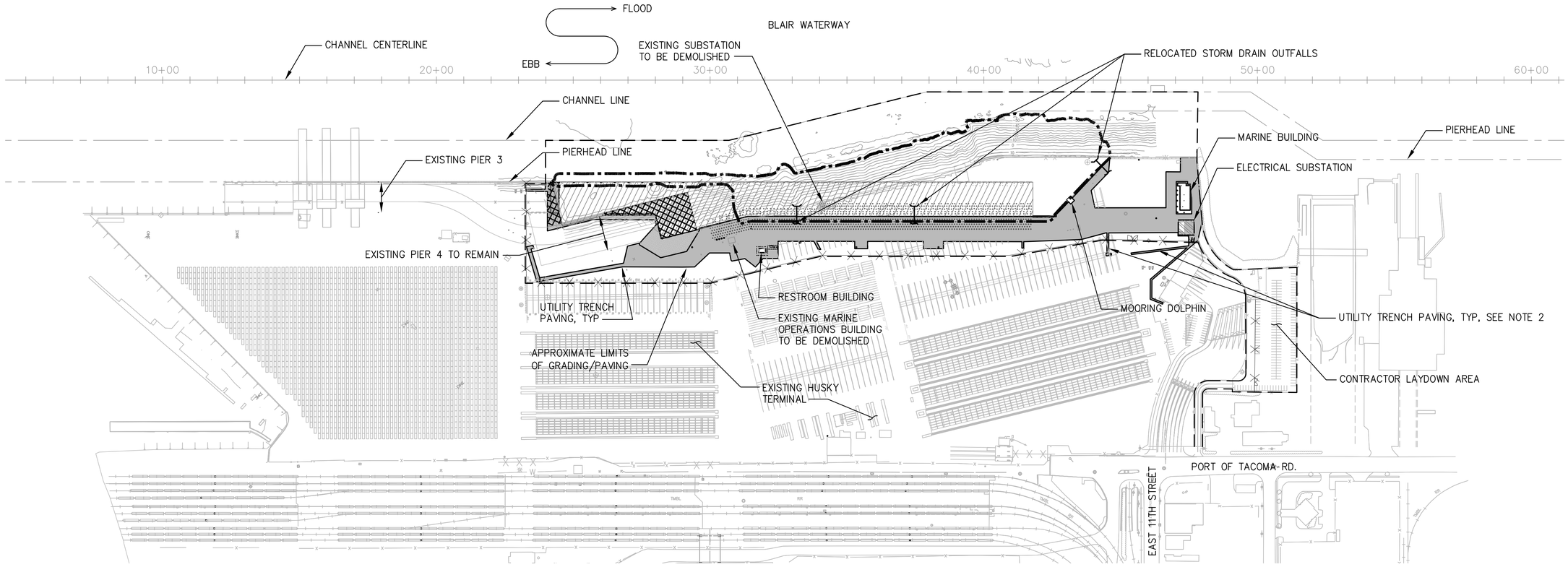
SECTION:

6552
G4.1
SH 7 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G4.1 (Survey Control and Notes Plan)
BINDING EDGE

BINDING EDGE



NOTES

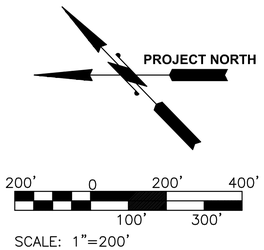
1. THIS PLAN PROVIDES AN OVERVIEW OF THE PROJECT ELEMENTS AND DOES NOT COMPLETELY DESCRIBE THE PROJECT. SEE COMPLETE CONTRACT DOCUMENTS FOR ALL CONTRACT AND PROJECT REQUIREMENTS.
2. FOR WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS CONTRACTOR SHALL REFER SHEET G6.2 AND TO SPECIFICATION SECTION 01 14 00 – WORK RESTRICTIONS FOR ADDITIONAL INFORMATION.
3. SLOPE PROTECTION AND UTILITIES NOT SHOWN FOR CLARITY. SEE SHEET C3.1 FOR SLOPE PROTECTION AND SHEETS C5.1–C5.3, C6.1–C6.4, and E3.3–E3.5 FOR UTILITIES.

LEGEND

- PROJECT WORK AREA LIMITS
- LIMITS OF DREDGING (SEE SHEET C2.1)
- APPROXIMATE LIMITS OF GRADING/PAVING (SEE GRADING AND PAVING PLAN)
- RECONFIGURED PIER 4 (SEE STRUCTURAL DRAWINGS)
- EXISTING PIER 3 AND PIER 4 TO BE DEMOLISHED (SEE DEMOLITION PLAN)
- ELECTRICAL SUBSTATION (SEE ELECTRICAL DRAWINGS)
- GROUND IMPROVEMENTS (SEE GROUND IMPROVEMENT PLAN)

OVERALL SITE PLAN

SCALE: 1"=200'



SCALE: 1"=200'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PROJ. ENGR	DATE

PRINTED BY: kvang Jul 19, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

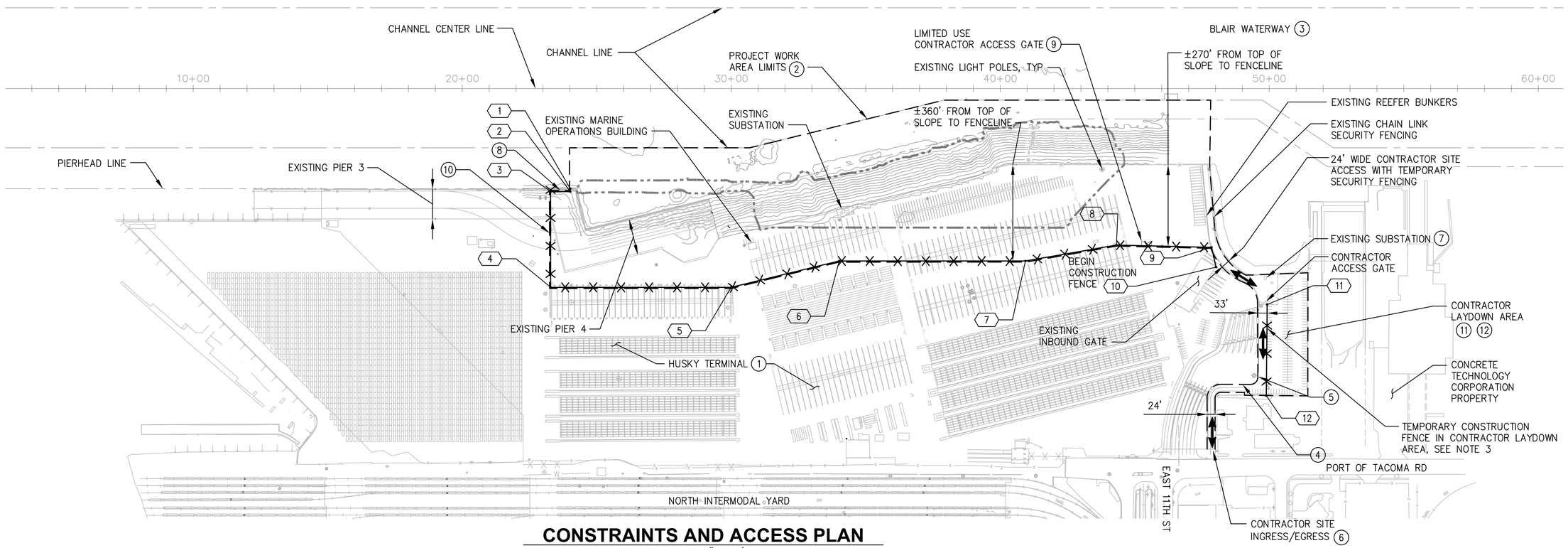
PIER 4 PHASE 2 RECONFIGURATION
OVERALL SITE PLAN

CONT/CONS:	0701136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
G5.1
SH 8 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G5.1 (Overall Site Plan)



CONSTRAINTS AND ACCESS PLAN

SCALE: 1"=200'

KEY NOTES

(1) HUSKY TERMINAL IS A RESTRICTED OPERATING TERMINAL. THE CONTRACTOR SHALL NOT INTERFERE WITH TERMINAL OPERATIONS.

(2) CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS AND LAYDOWN AREA UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AND LAYDOWN AREA AND REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, INCLUDING PAVEMENT.

(3) THE BLAIR WATERWAY IS AN ACTIVE SHIPPING CHANNEL. THE CONTRACTOR SHALL NOT OBSTRUCT SHIPPING OPERATIONS TO AND FROM THE HUSKY TERMINAL, ANY OTHER TERMINAL, OR ANY OTHER VESSEL TRAFFIC IN THE WATERWAY.

(4) CONTRACTOR SHALL PROTECT-IN-PLACE EXISTING CONCRETE BARRIERS AND NOT IMPACT INCOMING TERMINAL TRAFFIC OR GATE OPERATIONS.

(5) CONTRACTOR SHALL PROTECT-IN-PLACE EXISTING HIGH MAST LIGHT POLE, ROUTE CONSTRUCTION TRAFFIC SOUTH OF POLE AND NOT IMPACT INCOMING TERMINAL TRAFFIC OR GATE OPERATIONS.

(6) CONTRACTOR SHALL PROVIDE A FLAGGER AT INTERSECTION OF PORT OF TACOMA ROAD AND CONTRACTOR SITE INGRESS/EGRESS ROUTE, IF NECESSARY.

(7) CONTRACTOR SHALL PROTECT IN PLACE EXISTING SUBSTATION.

(8) CONTRACTOR SHALL MAINTAIN ACCESS TO PIER 3 SOUTHERN MOST MOORING BOLLARDS.

(9) LIMITED USE CONTRACTOR ACCESS GATE MAY BE USED AS REQUIRED FOR DELIVERY OF LARGE EQUIPMENT AND MATERIALS. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND TERMINAL TENANT.

(10) THE TEMPORARY CONSTRUCTION FENCE LOCATION SHOWN FOR THE NORTH BOUNDARY OF THE PROJECT WORK AREA IS INTENDED TO REPRESENT THE INITIAL LOCATION OF THE FENCE LINE TO ACCOMMODATE WORK AT THE NORTH END OF THE PROJECT. RELOCATION OF THE NORTH FENCE LINE MAY BE REQUIRED DURING THE DURATION OF THE PROJECT IN ORDER TO ACCOMMODATE TERMINAL OPERATIONS WHEN NOT WORKING ON THE INTERFACE BETWEEN PIER 3 AND PIER 4. THE CONTRACTOR SHALL INCLUDE UP TO 2 RELOCATIONS OF THE NORTH FENCE LINE IN THE BASE BID FOR THE PROJECT. REQUIREMENTS FOR FENCE RELOCATION WILL BE AS DIRECTED BY THE ENGINEER.

KEY NOTES - CONTINUED

(11) THE CONTRACTOR LAYDOWN AREA CONTAINS REMOVABLE CONCRETE WHEEL STOPS THAT MAY BE MOVED BY THE CONTRACTOR TO ACCOMMODATE WORK AREA SET-UP. THE WHEEL STOPS ARE PINNED TO THE PAVEMENT BY STEEL OR REBAR DOWELS. ALL WHEEL STOPS SHALL BE PROTECTED FROM DAMAGE, WHETHER THEY REMAIN IN PLACE OR ARE REMOVED. REMOVED WHEEL STOPS SHALL BE REINSTALLED IN THEIR PRE-PROJECT CONDITION AT THE COMPLETION OF THE PROJECT.

(12) THE CONTRACTOR LAYDOWN AREA SHALL ACCOMMODATE PLACEMENT OF UP TO (3) 40-FOOT SHIPPING CONTAINERS USED FOR STORAGE BY THE TERMINAL TENANT. PRIOR TO MOBILIZATION TO THE SITE, THE CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE LAYDOWN AREA WITH THE PORT TO ACCOMMODATE PLACEMENT OF, ACCESS TO, THE SHIPPING CONTAINERS.

LEGEND

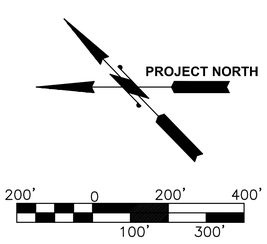
- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE — 3 / G8.6
- CONTRACTOR ACCESS ROUTE
- LIMITS OF DREDGING

TEMPORARY CONSTRUCTION FENCE COORDINATES

#	NORTHING	EASTING
1	713754.56	1166239.70
2	713747.55	1166232.72
3	713798.28	1166180.37
4	713542.85	1165932.84
5	713075.95	1166414.62
6	712866.75	1166771.31
7	712384.82	1167268.33
8	712191.88	1167552.31
9	711939.88	1167800.34
10	711875.38	1167761.33
11	711643.40	1167801.23
12	711403.11	1167563.76

NOTES

1. ECOLOGY BLOCKS SHALL BE PLACED INSIDE TEMPORARY CONSTRUCTION FENCE WITHIN THE PROJECT WORK AREA LIMITS, SEE SHEET G8.6 FOR PLACEMENT REQUIREMENTS. THE FENCE COORDINATES REPRESENT THE CENTER LINE OF THE TEMPORARY CONSTRUCTION FENCE. PROJECT WORK AREA LIMITS ARE SHOWN OFFSET FROM TEMPORARY CONSTRUCTION FENCE FOR CLARITY.
2. REFER TO SPECIFICATION SECTION 01 14 00, WORK RESTRICTIONS FOR WORK SEQUENCE, SCHEDULE CONSTRAINTS, AND WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS.
3. TEMPORARY CONSTRUCTION FENCE IN CONTRACTOR LAYDOWN AREA IS OPTIONAL, ECOLOGY BLOCKS NOT REQUIRED FOR TEMPORARY CONSTRUCTION FENCE IN CONTRACTOR LAYDOWN AREA.



SCALE: 1"=200'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

APPROVED:

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
CONSTRAINTS AND ACCESS PLAN

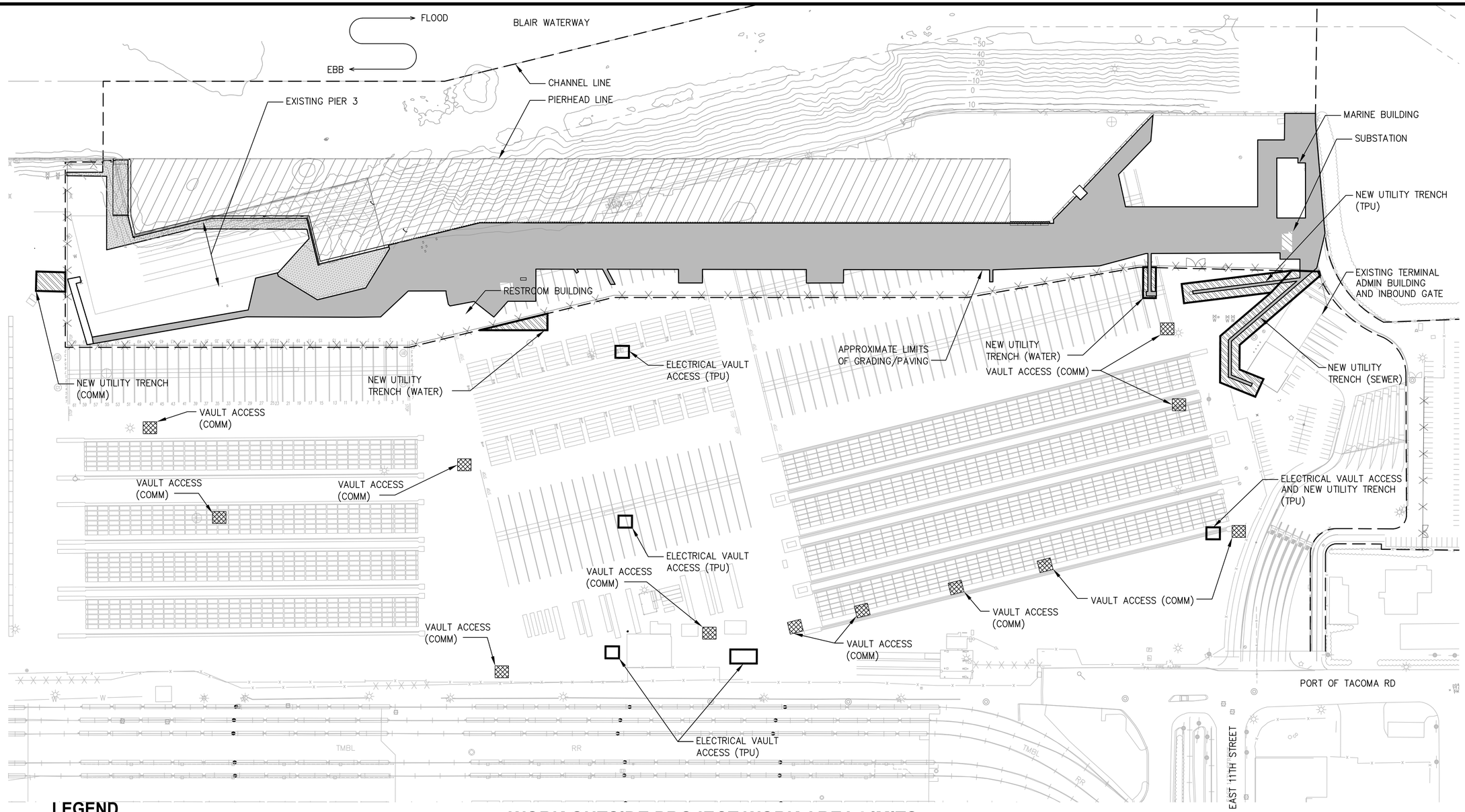
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION:

6552
G6.1
SH 9 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G6.1 (Constraints and Access Plan)



LEGEND

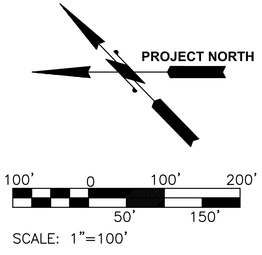
- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE
- APPROXIMATE LIMITS OF GRADING/PAVING
- RECONFIGURED PIER 4
- WEEKEND WORK OUTSIDE PROJECT LIMITS. SEE NOTE 2
- OUTSIDE PROJECT LIMITS VAULT ACCESS, SEE ELECTRICAL PLANS
- WORK TO BE COMPLETED BY TACOMA PUBLIC UTILTIES (TPU), SEE NOTE 4
- APPROXIMATE LIMITS OF PAVING OVER BALLAST

WORK OUTSIDE PROJECT WORK AREA LIMITS

SCALE: 1"=100'

NOTES

1. THE INTENT OF THIS DRAWING IS TO INDICATE AREAS OF CONTRACT WORK THAT OCCUR OUTSIDE OF THE DEFINED PROJECT WORK AREA LIMITS AND IN THE ACTIVE CONTAINER YARD. SPECIAL WORK RESTRICTIONS APPLY TO ALL WORK PERFOMED OUTSIDE OF THE PROJECT WORK AREA LIMITS AS DESCRIBED IN THE SPECIFICATION SECTION 01 14 00 – WORK RESTRICTIONS.
2. WEEKEND WORK IN AREA OUTSIDE OF, AND ADJACENT TO, THE TEMPORARY CONSTRUCTION FENCE IS RESTRICTED TO OCCUR DURING WEEKENDS ONLY (6:00PM FRIDAY TO 6:00AM MONDAY). THESE AREAS SHALL BE OPENED TO CONTAINER YARD VEHICULAR TRAFFIC BETWEEN 6:00AM MONDAY AND 6:00PM FRIDAY. IF NECESSARY, APPROPRIATELY SIZED TRENCH COVER PLATING SHALL BE INSTALLED OVER UNFILLED TRENCHES TO ACCOMMODATE CONTAINER YARD OPERATIONS DURING THE WEEK.
3. THE CONTRACTOR SHALL NOTIFTY THE PORT AT LEAST 2 WEEKS IN ADVANCE OF PERFORMING ANY WORK IN THE CONTAINER YARD TO ALLOW TIME FOR THE PORT TO COORDINATE WITH THE TERMINAL OPERATOR. THE TERMINAL OPERATOR MAY NEED TO CLEAR SOME AREAS OF CONTAINERS OR EQUIPMENT AND/OR TEMPORARILY MODIFY YARD OPERATIONS TO ACCOMODATE CONTRACTOR WORK.
4. AREAS DENOTED AS (TPU) INDICATE AREA OF WORK TO BE PERFORMED BY TACOMA PUBLIC UTILITIES AND ARE SHOWN FOR REFERENCE ONLY. TPU WILL COORDINATE THEIR WORK DIRECTLY WITH THE PORT.



SCALE: 1"=100'

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G6.2 (Work Outside Project Limits)

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

APPROVED:

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
WORK OUTSIDE PROJECT WORK AREA LIMITS

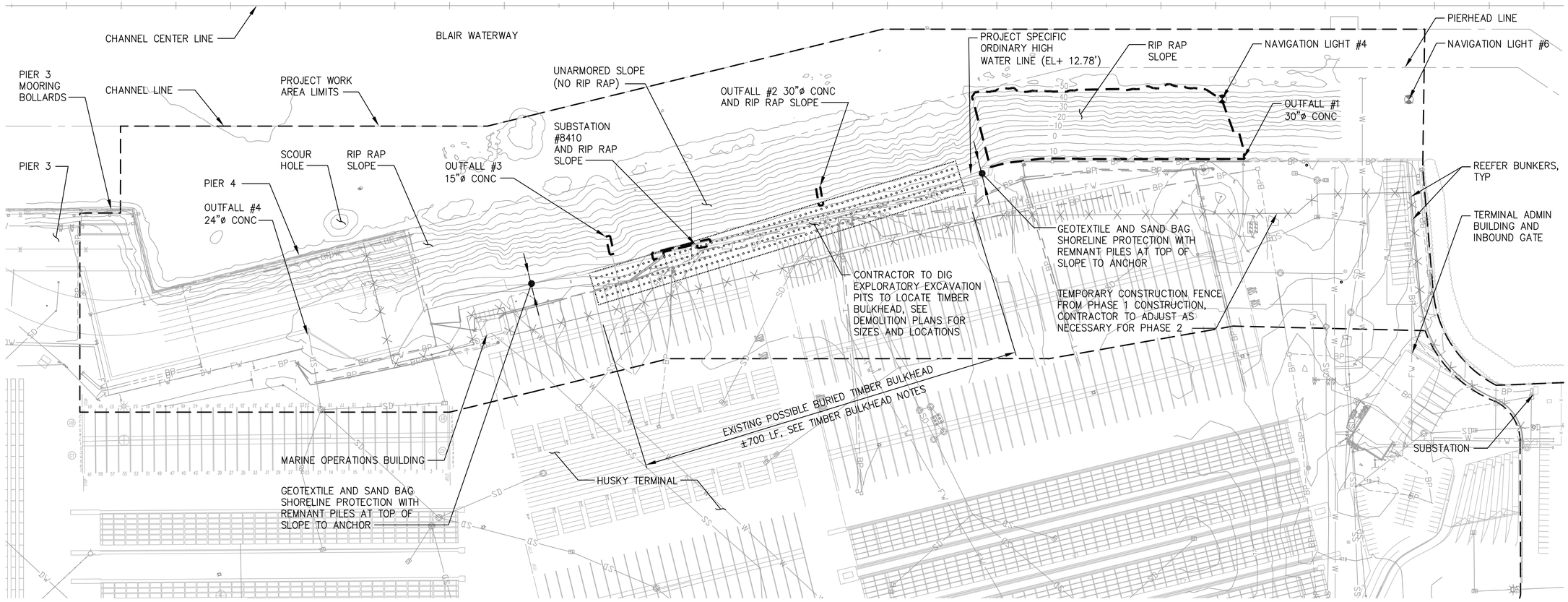
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
G6.2
SH 10 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



TIMBER BULKHEAD NOTES

1. PORT OF TACOMA RECORD DRAWINGS INDICATE THAT A BURIED, STEPPED TIMBER BULKHEAD WALL SYSTEM MAY EXIST WITHIN THE PROPOSED DREDGE PRISM AND WITHIN A PORTION OF THE STONE COLUMN INSTALLATION AREA. SEE RECORD DRAWINGS TITLED, PORT OF TACOMA PIER IV BULKHEAD CONSTRUCTION (EP-1318-4, SHEETS 1 THROUGH 3) REFERENCED IN SPECIFICATION SECTION 00 31 00 – AVAILABLE PROJECT INFORMATION. THE EXISTENCE, LOCATION, AND EXTENT OF THE BURIED BULKHEAD WALL SYSTEM IS UNKNOWN AND SHALL BE DETERMINED THROUGH EXPLORATORY EXCAVATION AS SHOWN ON DEMOLITION PLANS.

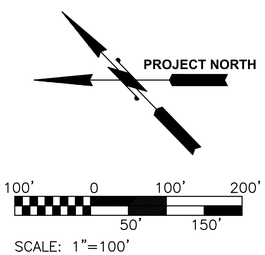
2. THIS DRAWING INDICATES THE ANTICIPATED LOCATION OF THE BURIED TIMBER BULKHEAD WALL SYSTEM IF IT EXISTS, BASED ON CORRELATION BETWEEN THE ABOVE REFERENCED RECORD DRAWINGS AND RECORD DRAWINGS FOR CONSTRUCTION OF THE ORIGINAL PIER 4 STRUCTURE THAT WAS DEMOLISHED IN PHASE 1 OF THE PIER 4 RECONFIGURATION PROJECT.

EXISTING CONDITIONS PLAN

SCALE: 1"=100'

LEGEND

- PROJECT WORK AREA LIMITS
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL +12.78')
- RIP RAP SLOPE AREA AROUND WORK LIMITS
- POSSIBLE BURIED TIMBER BULKHEAD, SEE TIMBER BULKHEAD NOTES
- CONCRETE BATTER PILES



SCALE: 1"=100'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
EXISTING CONDITIONS PLAN

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
G7.1
SH 11 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G7.1 (Existing Conditions Plan)

BINDING EDGE

TESC NOTES:

1. APPROVAL OF THE TEMPORARY EROSION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF PIPES, STRUCTURES, ETC.) OR THE CONTRACTOR MAINTAINED CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. THE CONTRACTOR SHALL COMPLY WITH, MAINTAIN, AND MODIFY AS NEEDED THE APPROVED CONSTRUCTION SWPPP IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE IMPLEMENTATION OF THESE TESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
4. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS ANTICIPATED FOR SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DOES NOT LEAVE THE SITE.
5. ON–SITE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF WORK AND SHALL BE MAINTAINED DURING AND AFTER EXCAVATION AND GRADING OPERATIONS TO THE APPROVAL OF THE PORT.
6. IF CONSTRUCTION OCCURS DURING DRY WEATHER PERIODS, DUST FROM CONSTRUCTION SHALL BE MINIMIZED THROUGH USE OF BEST MANAGEMENT PRACTICES (BMPS) OUTLINED IN THE SWPPP AND THE CITY'S STORMWATER MANUAL.
7. THE TESC FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT–LADEN WATER DOES NOT ENTER THE PORT DRAINAGE SYSTEM, THE BLAIR WATERWAY, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.
8. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION. DAILY INSPECTION REPORTS MUST BE REVIEWED BY THE CONTRACTOR, SIGNED AND MADE AVAILABLE TO THE PORT, CITY AND ANY OTHER ENVIRONMENTAL AUTHORITIES AT ALL TIMES. A COPY OF ALL INSPECTION RECORDS SHALL BE KEPT ON SITE.
9. ALL FACILITIES SHALL BE MAINTAINED ON SITE BY SWEEPING TO PREVENT DEBRIS, DUST AND MUD FROM ACCUMULATING ON THE PAVED SURFACES, BANK SLOPE, OR IN THE BLAIR WATERWAY, SITCUM WATERWAY, AND COMMENCEMENT BAY.
10. NON–COMPLIANCE WITH THE EROSION CONTROL AND WATER QUALITY REQUIREMENTS MAY RESULT IN A TEMPORARY STOP–WORK ORDER AT THE CONTRACTORS EXPENSE, UNTIL SAID EROSION CONTROL MEASURES ARE FUNCTIONAL.
11. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES OUTSIDE OF THE DESIGNATED PROJECT WORK AREA LIMITS OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM, ONTO THE BANK SLOPE, OR INTO THE BLAIR WATERWAY, SITCUM WATERWAY, AND COMMENCEMENT BAY.
12. DEWATERING ACTIVITIES SHALL BE PERFORMED IN A MANNER THAT ENSURES NO SILT–LADEN WATER ENTERS THE BLAIR WATERWAY, SITCUM WATERWAY, COMMENCEMENT BAY, OR STORM DRAINAGE SYSTEM.
13. ALL CATCH BASIN INLET PROTECTION INSTALLED SHALL BE REPLACED AND LEFT IN PLACE AT THE END OF CONSTRUCTION, AFTER FINAL INSPECTION AND ACCEPTANCE.
14. REMOVE SEDIMENT FROM THE STORM SYSTEM ONCE THE SITE IS PERMANENTLY STABILIZED. THE CLEANING AND REMOVAL OPERATION SHALL NOT FLUSH SEDIMENT DOWNSTREAM.
15. COORDINATE TESC PROVISION THAT ARE OUTSIDE OF THE PROJECT WORK AREA WITH THE ENGINEER AND PORT.
16. THE CONTRACTOR SHALL REMOVE MATERIAL AND/OR DEBRIS FROM VEHICLES EXITING THE PROJECT LIMITS, BUT NOT WASH THE DEBRIS INTO THE EXISTING STORM DRAINAGE SYSTEM.
17. IN ADDITION TO INLET PROTECTION SHOWN ON PLAN, CONTRACTOR SHALL INSTALL AND MAINTAIN INLET PROTECTION ON ALL EXISTING CATCH BASINS THAT ARE DISCOVERED IN FIELD WITHIN THE PROJECT WORK AREA LIMITS.
18. THE TEMPORARY FLOATING DEBRIS BOOM SHALL BE INSTALLED AT THE START OF WORK AND MAINTAINED, UPGRADED, REPAIRED OR REPLACED THE ENTIRE CONSTRUCTION PERIOD UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
19. APPROXIMATELY 250 SURFACE DECK DRAINS ARE WITHIN PROJECT WORK AREA LIMITS AND 310 SUBSURFACE DECK DRAINS ARE WITHIN THE DEMOLITION LIMITS INTERIOR TO THE PROJECT WORK AREA LIMITS. THESE QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY. ALL EXPOSED DECK DRAIN HOLES WITHIN THE PROJECT WORK AREA LIMITS SHALL BE COVERED OR TEMPORARILY PLUGGED TO PREVENT DISCHARGE TO WATERWAY.

RECORD DRAWINGS

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G8.1 (TESC General Notes)

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401–1837

PIER 4 PHASE 2
RECONFIGURATION
TESC GENERAL NOTES

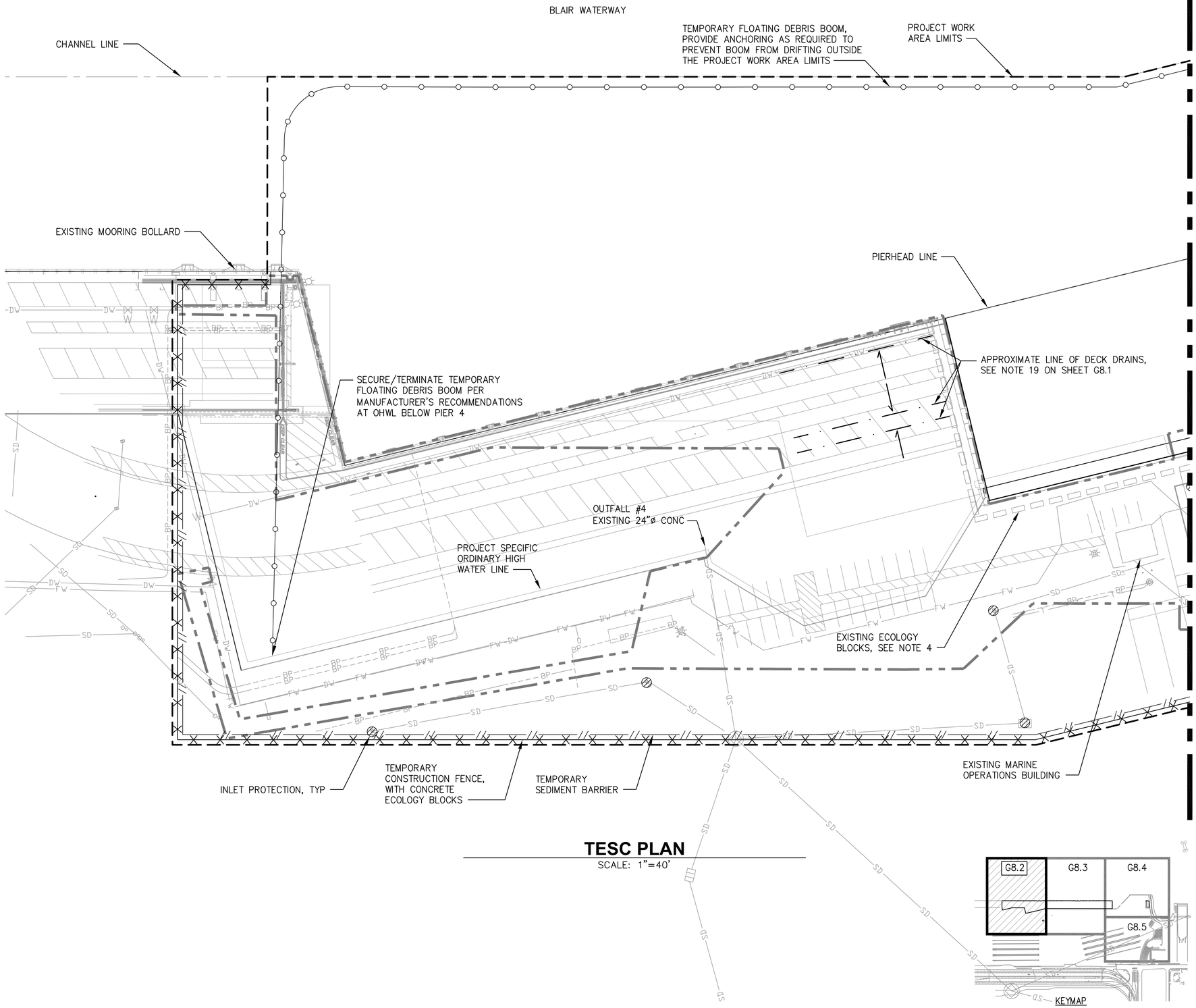
6552
G8.1
SH 12 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G8.2-G8.3-G8.4-G8.5 (TESC Plan - Sheet X)



TESC PLAN

SCALE: 1"=40'

TESC NOTES

1. SEE SHEET G8.1 FOR TESC NOTES.
2. INDIVIDUAL PIER DECK SURFACE DRAINS ARE NOT SHOWN.
3. SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE LOCATION COORDINATES.
4. PRIOR TO START OF WORK EXISTING ECOLOGY BLOCKS FROM THE TOP OF THE EXISTING SLOPE AND WITHIN THE PROJECT WORK AREA SHALL BE SALVAGED AND PLACED INSIDE THE TEMPORARY CONSTRUCTION FENCE, SEE 3/G8.6
5. CONTRACTORS SHALL PROVIDE ALL PUMPS, TANKS, SHORING, LABOR, AND EQUIPMENT NECESSARY TO ADEQUATELY DEWATER AND STABILIZE EXCAVATIONS. SEE GEOTECHNICAL REPORT FOR APPROXIMATE GROUNDWATER ELEVATION.
6. INLET PROTECTION SHALL BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF WORK OUTSIDE OF PROJECT LIMITS, PRIOR TO COMMENCEMENT OF WORK IN THOSE AREAS, AND NOT REMOVED UNTIL WORK OUTSIDE OF WORK LIMITS IS COMPLETE.
7. TEMPORARY CONSTRUCTION FENCE IN CONTRACTOR LAYDOWN AREA IS OPTIONAL, ECOLOGY BLOCKS NOT REQUIRED TO SECURE TEMPORARY CONSTRUCTION FENCE LOCATED IN CONTRACTOR LAYDOWN AREA.
8. CONTRACTOR CAN MAINTAIN SEPARATION BETWEEN CONSTRUCTION STORMWATER AND OFF-SITE STORMWATER. EXISTING TREATMENT FOR OFF-SITE STORMWATER WITHIN PROJECT LIMITS SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE TREATMENT SYSTEM AND TANKS TO MEET PERMIT THRESHOLD REQUIREMENTS FOR STORMWATER WITHIN PROJECT LIMITS AND STORMWATER THAT COMINGLES WITH CONSTRUCTION STORMWATER PRIOR TO TREATMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE, SEE NOTE 4 (3/G8.6)
- INLET PROTECTION (1/G8.6)
- TEMPORARY FLOATING DEBRIS BOOM
- TEMPORARY SEDIMENT BARRIER (2/G8.6)
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- GENERAL DIRECTION OF SURFACE FLOW
- APPROXIMATE LINE OF DECK DRAINS
- EXISTING ECOLOGY BLOCKS

SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE
PROJ. ENGR DATE
PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
TESC PLAN - SHEET 1

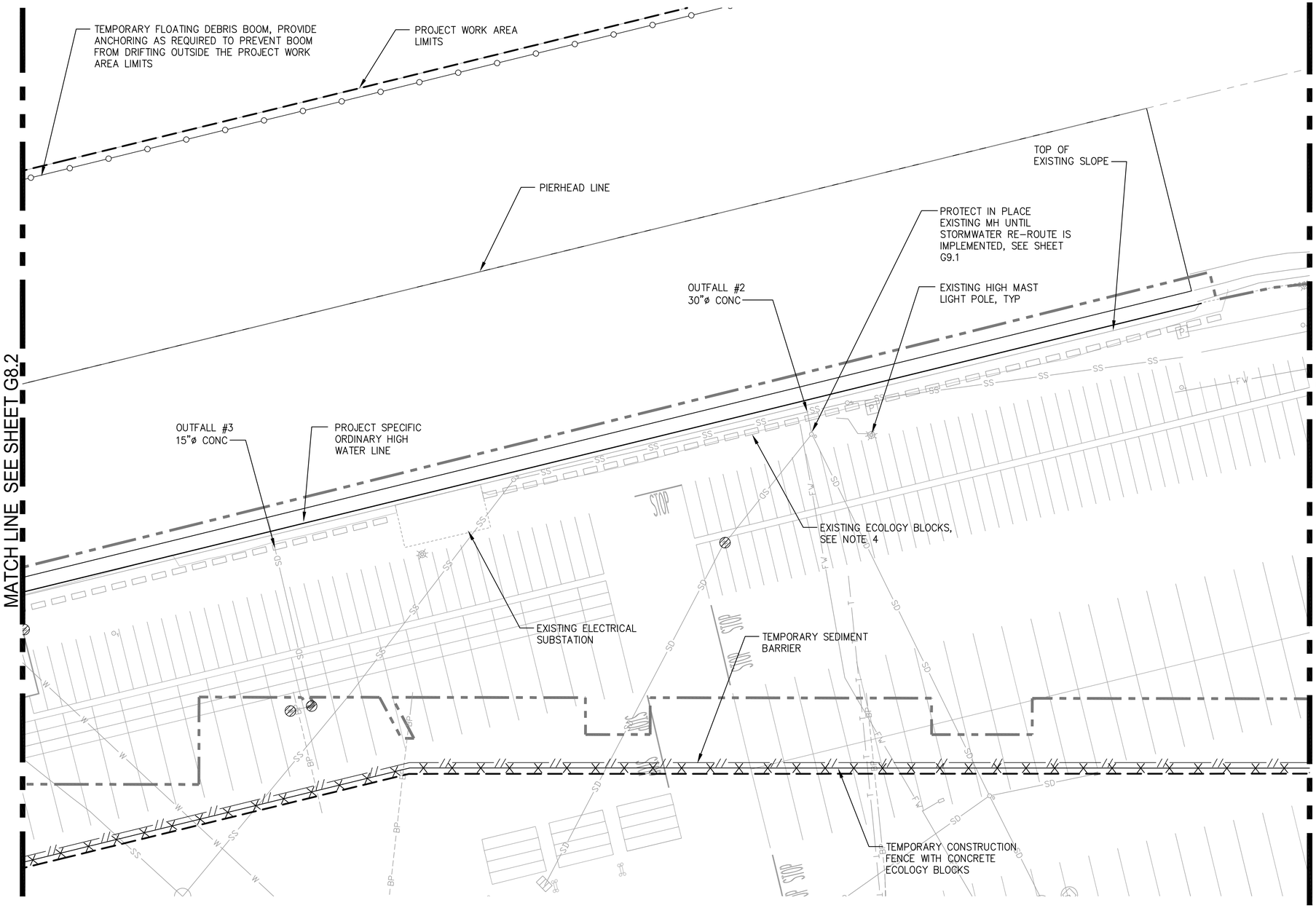
TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS:ONE SITCUM PLAZA	
PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	
CONT/CONS: 070136			
M. ID: 091251			
PHASE: CONFORMED			

6552
G8.2
SH 13 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G8.2-G8.3-G8.4-G8.5 (TESC Plan - Sheet X)



TESC PLAN

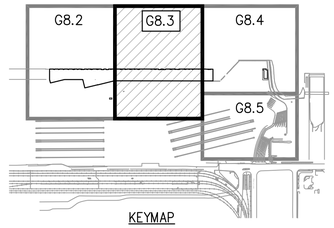
SCALE: 1"=40'

TESC NOTES

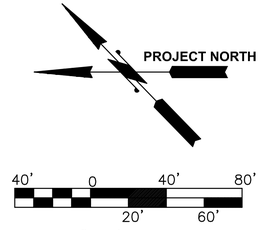
1. SEE SHEET G8.1 FOR TESC NOTES.
2. INDIVIDUAL PIER DECK SURFACE DRAINS ARE NOT SHOWN.
3. SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE LOCATION COORDINATES.
4. PRIOR TO START OF WORK EXISTING ECOLOGY BLOCKS FROM THE TOP OF THE EXISTING SLOPE AND WITHIN THE PROJECT WORK AREA SHALL BE SALVAGED AND PLACED INSIDE THE TEMPORARY CONSTRUCTION FENCE, SEE 3/G8.6
5. CONTRACTORS SHALL PROVIDE ALL PUMPS, TANKS, SHORING, LABOR, AND EQUIPMENT NECESSARY TO ADEQUATELY DEWATER AND STABILIZE EXCAVATIONS. SEE GEOTECHNICAL REPORT FOR APPROXIMATE GROUNDWATER ELEVATION.
6. INLET PROTECTION SHALL BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF WORK OUTSIDE OF PROJECT LIMITS, PRIOR TO COMMENCEMENT OF WORK IN THOSE AREAS, AND NOT REMOVED UNTIL WORK OUTSIDE OF WORK LIMITS IS COMPLETE.
7. TEMPORARY CONSTRUCTION FENCE IN CONTRACTOR LAYDOWN AREA IS OPTIONAL, ECOLOGY BLOCKS NOT REQUIRED TO SECURE TEMPORARY CONSTRUCTION FENCE LOCATED IN CONTRACTOR LAYDOWN AREA.
8. CONTRACTOR CAN MAINTAIN SEPARATION BETWEEN CONSTRUCTION STORMWATER AND OFF-SITE STORMWATER. EXISTING TREATMENT FOR OFF-SITE STORMWATER WITHIN PROJECT LIMITS SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE TREATMENT SYSTEM AND TANKS TO MEET PERMIT THRESHOLD REQUIREMENTS FOR STORMWATER WITHIN PROJECT LIMITS AND STORMWATER THAT COMINGLES WITH CONSTRUCTION STORMWATER PRIOR TO TREATMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE, SEE NOTE 4 — 3/G8.6
- INLET PROTECTION — 1/G8.6
- TEMPORARY FLOATING DEBRIS BOOM
- TEMPORARY SEDIMENT BARRIER — 2/G8.6
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- GENERAL DIRECTION OF SURFACE FLOW
- APPROXIMATE LINE OF DECK DRAINS
- EXISTING ECOLOGY BLOCKS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY:	smillett Jul 16, 2018	PROJ. ENGR	
PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
TESC PLAN - SHEET 2

TOWNSHIP:	RANGE:	SECTION:
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PARCEL:		

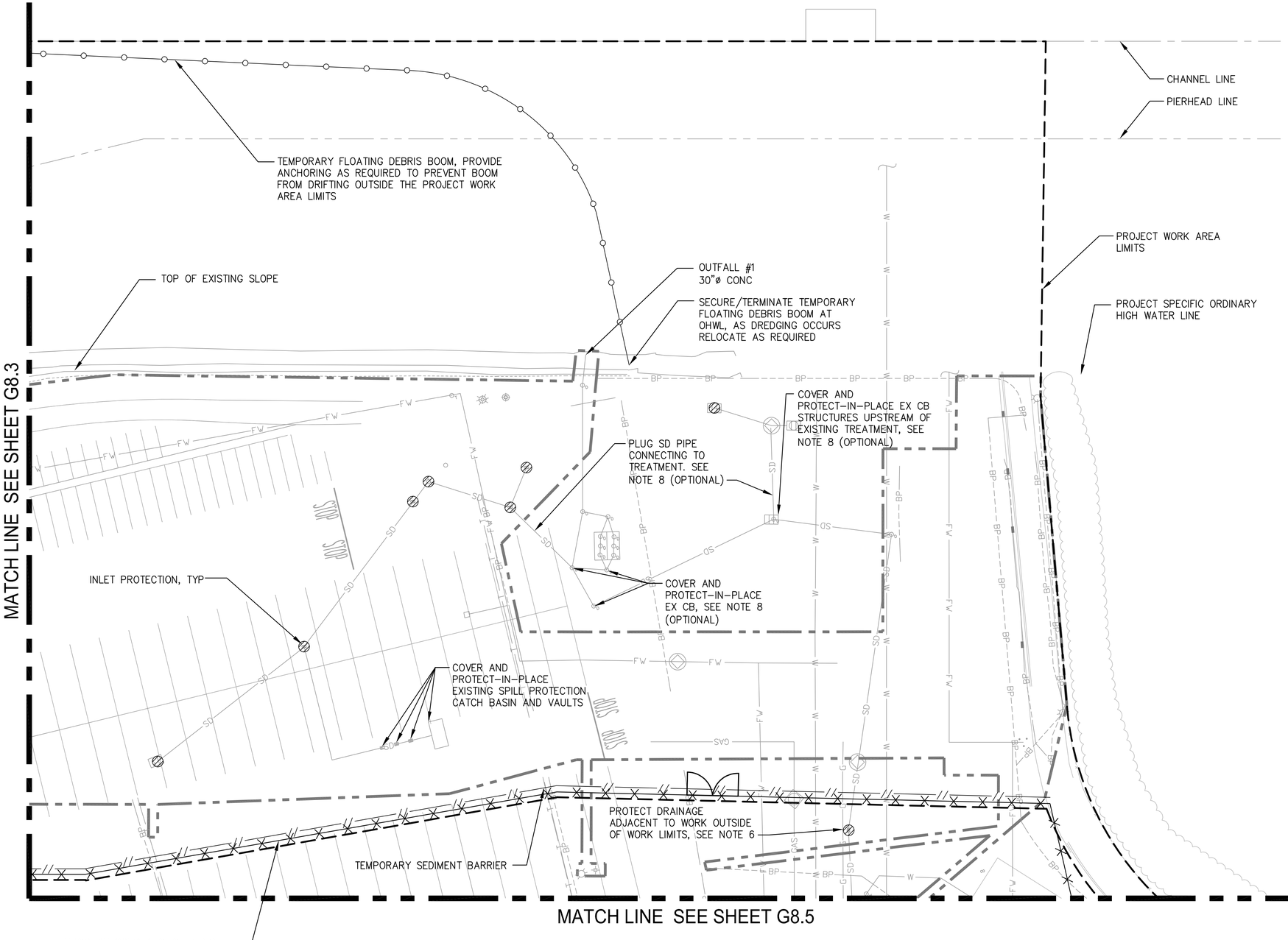
6552
G8.3
SH 14 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G8.2-G8.3-G8.4-G8.5 (TESC Plan - Sheet X)



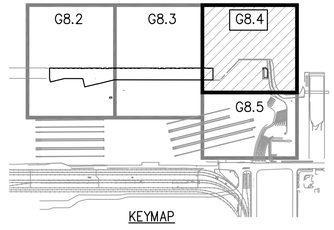
TESC PLAN
SCALE: 1"=40'

TESC NOTES

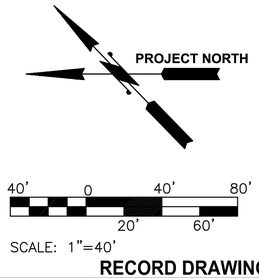
1. SEE SHEET G8.1 FOR TESC NOTES.
2. INDIVIDUAL PIER DECK SURFACE DRAINS ARE NOT SHOWN.
3. SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE LOCATION COORDINATES.
4. PRIOR TO START OF WORK EXISTING ECOLOGY BLOCKS FROM THE TOP OF THE EXISTING SLOPE AND WITHIN THE PROJECT WORK AREA SHALL BE SALVAGED AND PLACED INSIDE THE TEMPORARY CONSTRUCTION FENCE, SEE 3/G8.6
5. CONTRACTORS SHALL PROVIDE ALL PUMPS, TANKS, SHORING, LABOR, AND EQUIPMENT NECESSARY TO ADEQUATELY DEWATER AND STABILIZE EXCAVATIONS. SEE GEOTECHNICAL REPORT FOR APPROXIMATE GROUNDWATER ELEVATION.
6. INLET PROTECTION SHALL BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF WORK OUTSIDE OF PROJECT LIMITS, PRIOR TO COMMENCEMENT OF WORK IN THOSE AREAS, AND NOT REMOVED UNTIL WORK OUTSIDE OF WORK LIMITS IS COMPLETE.
7. TEMPORARY CONSTRUCTION FENCE IN CONTRACTOR LAYDOWN AREA IS OPTIONAL, ECOLOGY BLOCKS NOT REQUIRED TO SECURE TEMPORARY CONSTRUCTION FENCE LOCATED IN CONTRACTOR LAYDOWN AREA.
8. CONTRACTOR CAN MAINTAIN SEPARATION BETWEEN CONSTRUCTION STORMWATER AND OFF-SITE STORMWATER. EXISTING TREATMENT FOR OFF-SITE STORMWATER WITHIN PROJECT LIMITS SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE TREATMENT SYSTEM AND TANKS TO MEET PERMIT THRESHOLD REQUIREMENTS FOR STORMWATER WITHIN PROJECT LIMITS AND STORMWATER THAT COMINGLES WITH CONSTRUCTION STORMWATER PRIOR TO TREATMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE, SEE NOTE 4 — 3/G8.6
- INLET PROTECTION — 1/G8.6
- TEMPORARY FLOATING DEBRIS BOOM
- TEMPORARY SEDIMENT BARRIER — 2/G8.6
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- GENERAL DIRECTION OF SURFACE FLOW
- APPROXIMATE LINE OF DECK DRAINS
- EXISTING ECOLOGY BLOCKS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
TESC PLAN - SHEET 3

CONT/CONS:	070136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide 22 1933	PRINTED BY:	smillett Jul 16, 2018
DRAWING SCALE:	AS NOTED	PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
G8.4
SH 15 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G8.2-G8.3-G8.4-G8.5 (TESC Plan - Sheet X)

MATCH LINE SEE SHEET G8.4



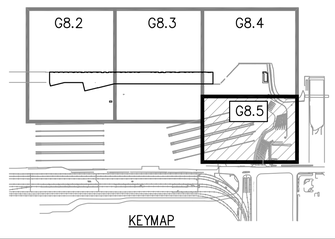
TESC PLAN
SCALE: 1"=40'

TESC NOTES

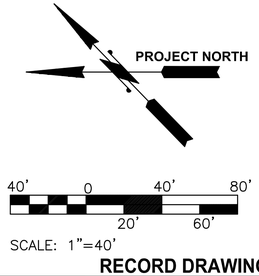
1. SEE SHEET G8.1 FOR TESC NOTES.
2. INDIVIDUAL PIER DECK SURFACE DRAINS ARE NOT SHOWN.
3. SEE SHEET G6.1 FOR TEMPORARY CONSTRUCTION FENCE LOCATION COORDINATES.
4. PRIOR TO START OF WORK EXISTING ECOLOGY BLOCKS FROM THE TOP OF THE EXISTING SLOPE AND WITHIN THE PROJECT WORK AREA SHALL BE SALVAGED AND PLACED INSIDE THE TEMPORARY CONSTRUCTION FENCE, SEE 3/G8.6
5. CONTRACTORS SHALL PROVIDE ALL PUMPS, TANKS, SHORING, LABOR, AND EQUIPMENT NECESSARY TO ADEQUATELY DEWATER AND STABILIZE EXCAVATIONS. SEE GEOTECHNICAL REPORT FOR APPROXIMATE GROUNDWATER ELEVATION.
6. INLET PROTECTION SHALL BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF WORK OUTSIDE OF PROJECT LIMITS, PRIOR TO COMMENCEMENT OF WORK IN THOSE AREAS, AND NOT REMOVED UNTIL WORK OUTSIDE OF WORK LIMITS IS COMPLETE.
7. TEMPORARY CONSTRUCTION FENCE IN CONTRACTOR LAYDOWN AREA IS OPTIONAL, ECOLOGY BLOCKS NOT REQUIRED TO SECURE TEMPORARY CONSTRUCTION FENCE LOCATED IN CONTRACTOR LAYDOWN AREA.
8. CONTRACTOR CAN MAINTAIN SEPARATION BETWEEN CONSTRUCTION STORMWATER AND OFF-SITE STORMWATER. EXISTING TREATMENT FOR OFF-SITE STORMWATER WITHIN PROJECT LIMITS SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE TREATMENT SYSTEM AND TANKS TO MEET PERMIT THRESHOLD REQUIREMENTS FOR STORMWATER WITHIN PROJECT LIMITS AND STORMWATER THAT COMINGLES WITH CONSTRUCTION STORMWATER PRIOR TO TREATMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE, SEE NOTE 4 — 3/G8.6
- INLET PROTECTION — 1/G8.6
- TEMPORARY FLOATING DEBRIS BOOM
- TEMPORARY SEDIMENT BARRIER — 2/G8.6
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- DEMOLITION LIMIT LINE, SEE DEMOLITION PLANS
- GENERAL DIRECTION OF SURFACE FLOW
- APPROXIMATE LINE OF DECK DRAINS
- EXISTING ECOLOGY BLOCKS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PROJ. ENGR	DATE		

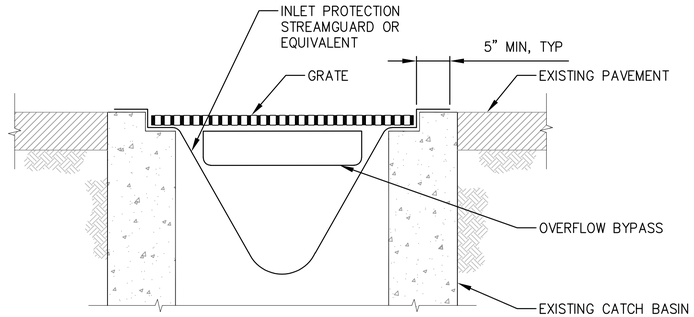
PIER 4 PHASE 2
RECONFIGURATION
TESC PLAN - SHEET 4

TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul	
PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA	
		TACOMA, WA 98401-1837	

6552
G8.5
SH 16 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

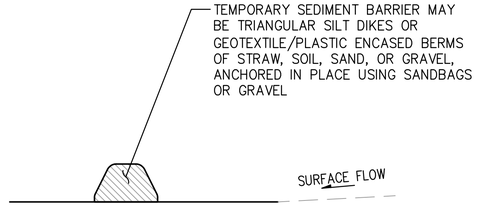


MAINTENANCE STANDARDS:

1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED BY FLUSHING. ALL SEDIMENT MUST BE DISPOSED OF OFF-SITE.
2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY, OR AS DIRECTED BY THE ENGINEER.

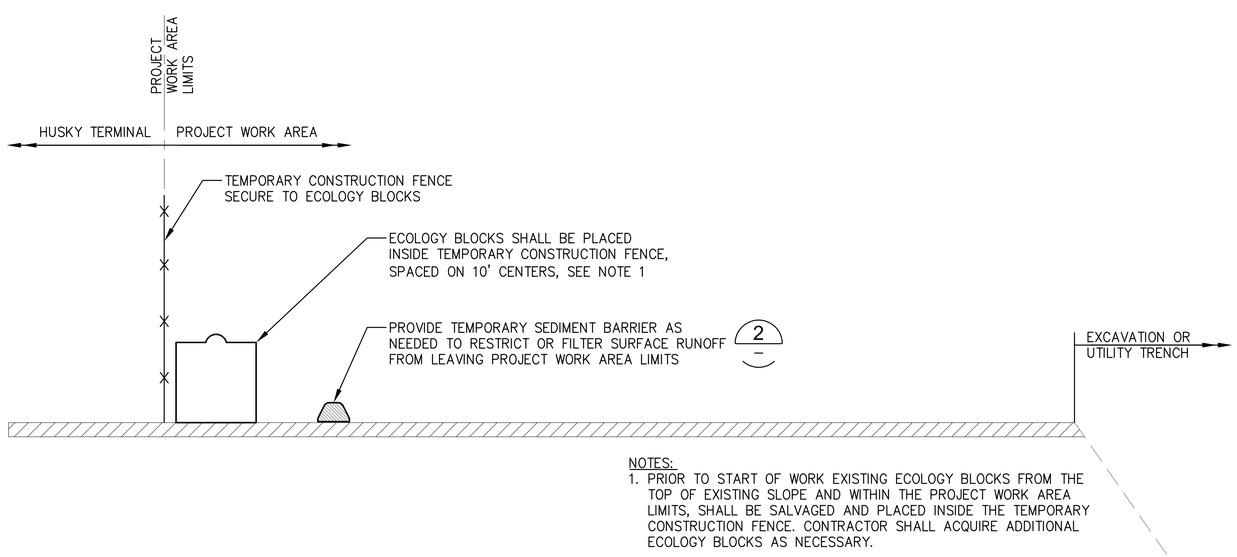
CATCH BASIN INLET PROTECTION

1 — G8.1, G8.2, G8.3, G8.4, G8.5 — NTS



TEMPORARY SEDIMENT BARRIER

2 — G8.2, G8.3, G8.4 — NTS



NOTES:

1. PRIOR TO START OF WORK EXISTING ECOLOGY BLOCKS FROM THE TOP OF EXISTING SLOPE AND WITHIN THE PROJECT WORK AREA LIMITS, SHALL BE SALVAGED AND PLACED INSIDE THE TEMPORARY CONSTRUCTION FENCE. CONTRACTOR SHALL ACQUIRE ADDITIONAL ECOLOGY BLOCKS AS NECESSARY.

TEMPORARY CONSTRUCTION FENCE

3 — G6.1, G8.2, G8.3, G8.4, G8.5, D1.1, D1.2, D1.3, D1.4 — NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
TESC DETAILS

6552
G8.6
SH 17 OF 499

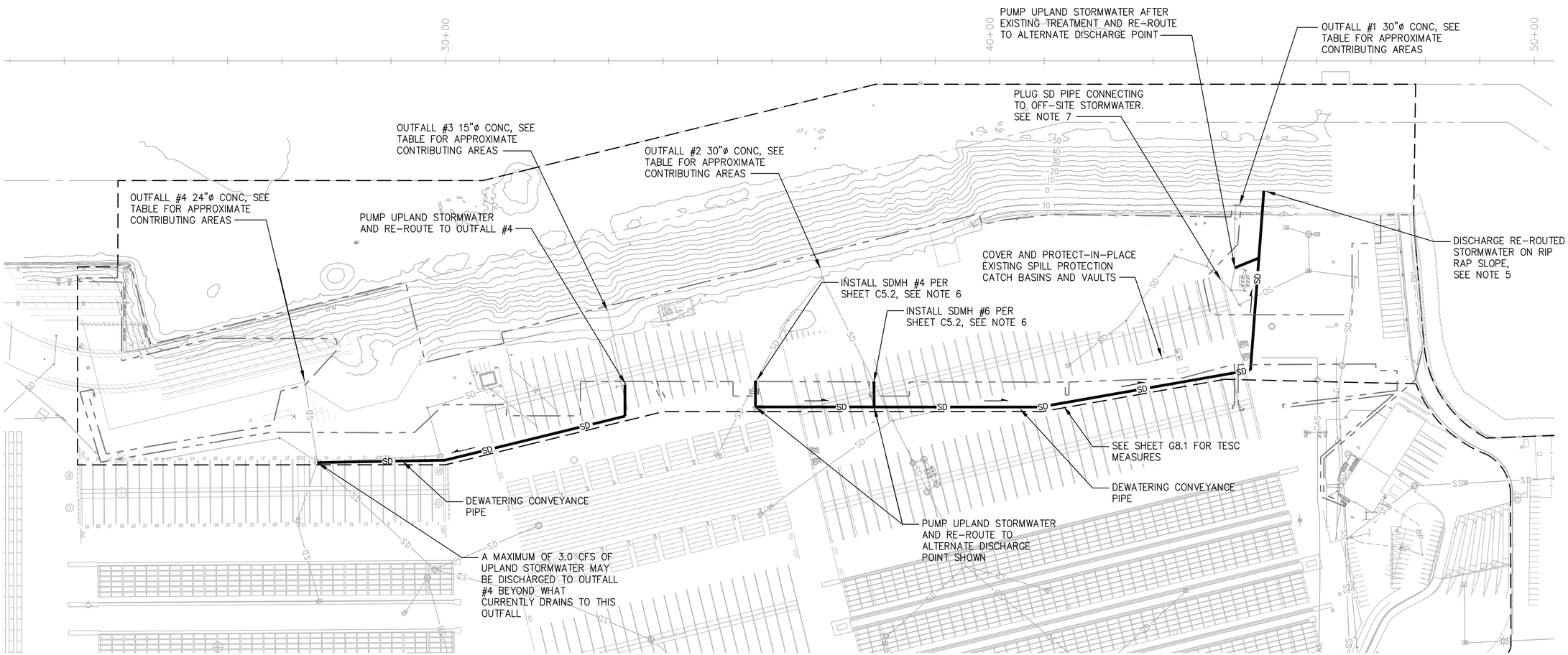
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G8.6 (TESC Details)

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-G9.1 (Stormwater Re-Route Plan)



TEMPORARY OFF-SITE STORMWATER RE-ROUTE PLAN

SCALE: 1"=100'

NOTES

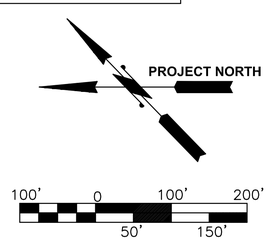
1. THE DEWATERING SYSTEM SHOWN ON THIS PLAN IS A RECOMMENDED ALTERNATIVE, CONTRACTOR TO DETERMINE FINAL CONFIGURATION AND SHALL DEVELOP A TEMPORARY OFF-SITE STORMWATER REROUTE PLAN TO REROUTE ALL OFF-SITE STORMWATER DURING CONSTRUCTION. SEE SPECIFICATION SECTION 31 23 19 – DEWATERING FOR FURTHER REQUIREMENTS.
2. CONTRACTOR MAY UTILIZE THE EXISTING UPSTREAM CONVEYANCE SYSTEM FOR DETENTION BUT SHALL PREVENT STORMWATER FROM FLOODING THE YARD. CONTRACTOR SHALL PROVIDE ALL PUMPS, TANKS, PIPES, HOSES, EQUIPMENT AND POWER NECESSARY TO REROUTE OFF-SITE STORMWATER, SEE TABLE FOR CONTRIBUTING AREAS TO EACH OUTFALL. CONTRACTOR SHALL NOT EXCEED THE CAPACITY OF EXISTING OUTFALLS BEING USED FOR DISCHARGE POINTS. CONTRACTOR SHALL INSTALL ALL NECESSARY DEWATERING EQUIPMENT REQUIRED TO REROUTE THE OFF-SITE STORMWATER PRIOR TO DEMOLITION OF THE EXISTING STORMWATER OUTFALLS AND UNTIL THE OUTFALLS AND CONVEYANCE SYSTEMS AS SHOWN ON THE DRAINAGE PLANS HAVE BEEN CONSTRUCTED AND APPROVED BY THE ENGINEERS.
4. CONTRACTOR SHALL COLLECT AND MANAGE ALL STORMWATER RUNOFF FROM WITHIN THE PROJECT WORK AREA PER THE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP), SEE SPECIFICATION SECTION 01 57 13 – TEMPORARY EROSION AND SEDIMENT CONTROL AND CONSTRUCTION STORMWATER POLLUTION PREVENTION FOR FURTHER REQUIREMENTS.
5. CONTRACTOR SHALL VERIFY THAT HIS DEWATERING/STORMWATER RE-ROUTE SYSTEM IS CAPABLE OF PUMPING SURFACE FLOW FROM THE FULL CONTRIBUTING AREA WITHOUT INUNDATING ANY EXISTING OUTFALLS.
6. CONTRACTOR SHALL POT-HOLE AND LOCATE EXISTING STORM DRAIN LINES WHERE INDICATED IN PLAN. CONTRACTOR SHALL INSTALL PERMANENT MANHOLES TO BE USED IN FINAL CONDITION, AND INSTALL TEMPORARY PUMPS THAT PUMP TO AN APPROVED DISCHARGE POINT.
7. CONTRACTOR CAN MAINTAIN SEPARATION BETWEEN CONSTRUCTION STORMWATER AND OFF-SITE STORMWATER. EXISTING TREATMENT FOR OFF-SITE STORMWATER WITHIN PROJECT LIMITS SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE TREATMENT SYSTEM AND TANKS TO MEET PERMIT THRESHOLD REQUIREMENTS. FOR STORMWATER WITHIN PROJECT LIMITS OR STORMWATER THAT COMINGLES WITH CONSTRUCTION STORMWATER PRIOR TO TREATMENT.

OUTFALL APPROXIMATE CONTRIBUTING AREAS

OUTFALL #	CONTRIBUTING AREA PRIOR TO DREDGING	CONTRIBUTING AREA AFTER DREDGING	OUTFALL DIAMETER
1	13.3 AC	12.1 AC	30"ø
2	21.6 AC	19.5 AC	30"ø
3	2.7 AC	2.5 AC	15"ø
4	15.8 AC	15.8 AC	24"ø

LEGEND

- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE
- SD — DEWATERING CONVEYANCE PIPE
- FLOW DIRECTION



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
TEMPORARY OFF-SITE STORMWATER RE-ROUTE PLAN

CHECKED BY	DATE
PROJ. ENGR	DATE

PRINTED BY: smillett Jul 16, 2018

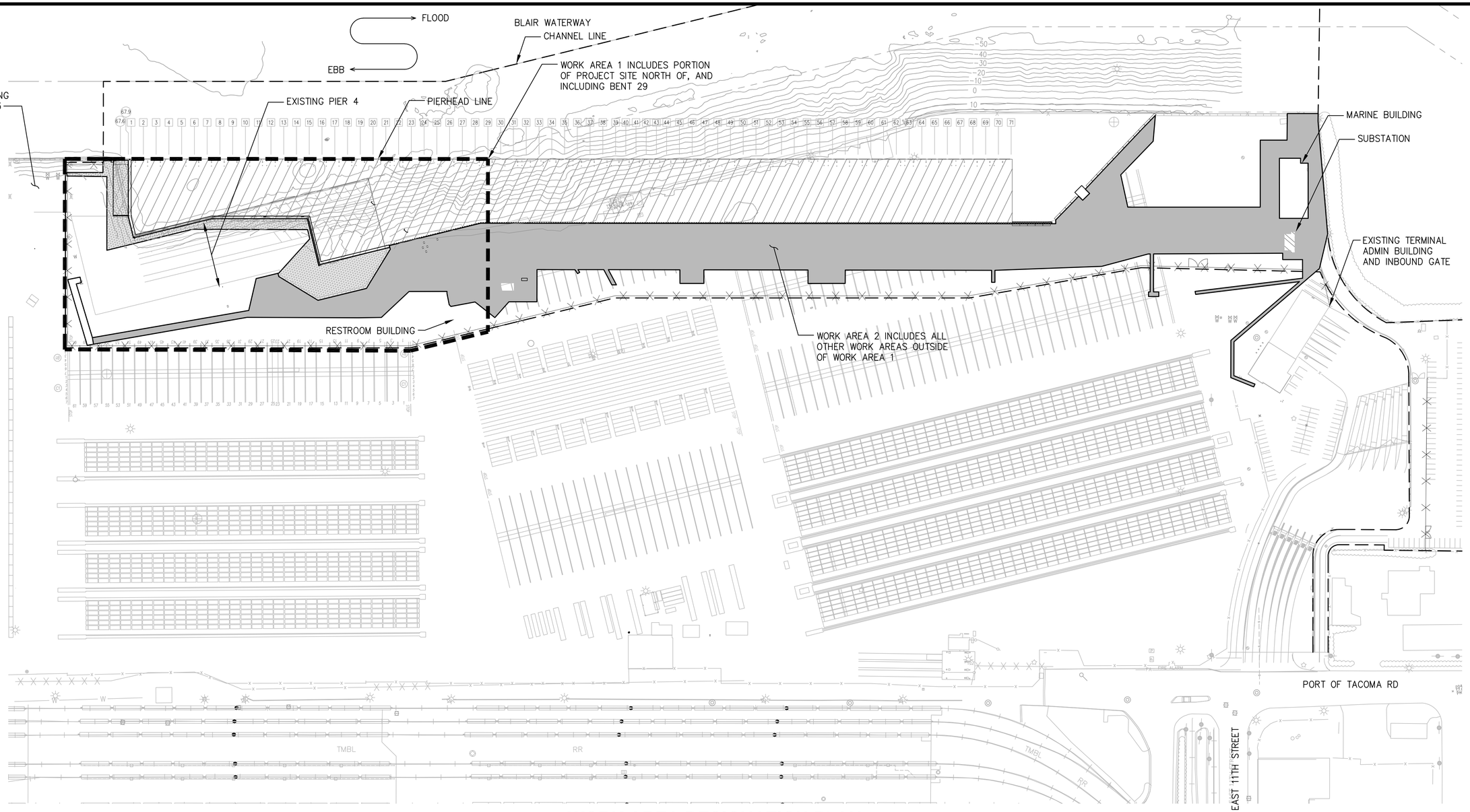
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
G9.1
SH 18 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



LEGEND

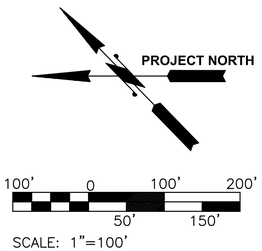
- LIMIT OF WORK AREA 1
- PROJECT WORK AREA LIMITS
- TEMPORARY CONSTRUCTION FENCE
- APPROXIMATE LIMITS OF UPLAND GRADING/PAVING
- RECONFIGURED PIER 4

WORK AREA DESIGNATION PLAN

SCALE: 1"=100'

NOTES

1. THE INTENT OF THIS SHEET IS TO ILLUSTRATE THE EXTENT OF THE PROJECT WORK AREAS 1 AND 2 WITH RESPECT TO THE OVERALL PROJECT SITE. MILESTONES FOR SUBSTANTIAL COMPLETION DIFFER FOR AREAS 1 AND 2 AND ARE AS DEFINED IN SECTION 00 52 00 – AGREEMENT FORM. SEE SECTION 01 10 00 – SUMMARY FOR ADDITIONAL INFORMATION REGARDING PROJECT PHASING AND WORK REQUIREMENTS WITHIN EACH AREA. THIS PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY AND DOES NOT INDICATE ALL COMPONENTS OF WORK WITHIN EACH WORK AREA.



SCALE: 1"=100'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

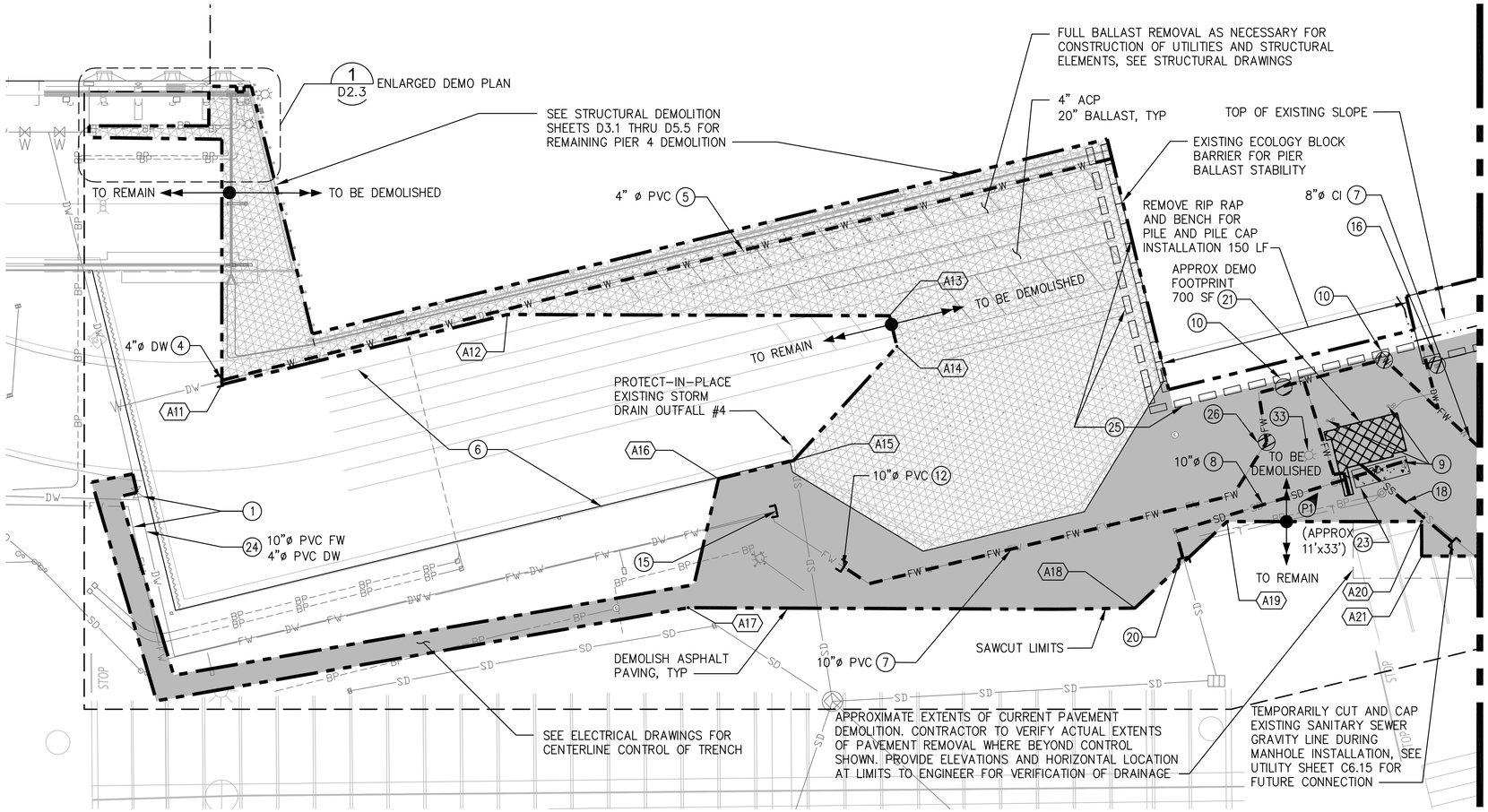
WORK AREA DESIGNATION PLAN

CONT/CONS: 0701.36	TOWNSHIP:	RANGE:	SECTION:
M. ID: 0912.51	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
G10.1
SH 19 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\0912.51-G10.1 (Work Area Designation)

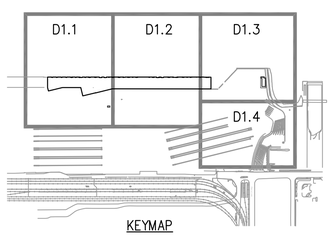


UTILITY AND SITE DEMOLITION PLAN

SCALE: 1"=40'

KEY NOTES

1. PRIOR TO BEGINNING WATER LINE DEMOLITION, FIELD LOCATE AND CLOSE EXISTING GATE VALVES.
2. ABANDON EXISTING WATER LINE.
3. ABANDON EXISTING STORM DRAIN LINE.
4. CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SIZE AND MATERIAL PER PLAN.
5. DEMOLISH EXISTING 4"ø DOMESTIC WATER LINE.
6. REMOVE EXISTING PAVEMENT MARKINGS FROM EXISTING PIER 4 STRUCTURE WHICH IS TO REMAIN IN PLACE.
7. DEMOLISH EXISTING FIRE WATER LINE.
8. DEMOLISH EXISTING STORM DRAIN LINE.
9. DEMOLISH EXISTING CLEAN OUT.
10. DEMOLISH EXISTING GATE VALVE.
11. PROTECT-IN-PLACE EXISTING FIRE WATER LINE.
12. TEMPORARILY CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
13. TEMPORARILY CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE, SEE SHEETS C5.1 THRU C5.3 FOR FUTURE CONNECTION.
14. DEMOLISH CONCRETE OUTFALL PIPE.
15. DEMOLISH EXISTING AIR RELEASE VALVE, TEMPORARILY CUT AND CAP PRESSURIZED WATER LINE PER DETAIL 1 ON SHEET D2.1. SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
16. DEMOLISH EXISTING STORM DRAIN CATCH BASIN AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
17. DEMOLISH EXISTING STORM DRAIN MANHOLE AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
18. DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE AND CONNECTED STRUCTURES.
19. CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE PER DETAIL 1 ON D2.1.
20. CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE PER DETAIL 1 ON D2.1.
21. DEMOLISH MARINE OPERATIONS BUILDING, ADJACENT CONCRETE PADS, ASSOCIATED STRUCTURES, BOLLARDS, WHEEL STOPS, AND UTILITIES.
22. DEMOLISH EXISTING ELECTRICAL SUBSTATION, ASSOCIATED CONCRETE PADS, VAULTS AND UTILITY LINES UNLESS NOTED OTHERWISE, ONLY AFTER TEMPORARY POWER SYSTEMS HAVE BEEN INSTALLED, SEE ELECTRICAL PLANS FOR TEMPORARY ELECTRICAL SERVICE AND DEMOLITION.
23. DEMOLISH REMNANT CONCRETE PAD.
24. PROTECT-IN-PLACE EXISTING FIRE AND DOMESTIC WATER LINES AT HIGH MAST LIGHT POLE, SEE UTILITY AND ELECTRICAL PLANS.
25. PRIOR TO START OF WORK SALVAGE EXISTING ECOLOGY BLOCKS AND PLACE INSIDE TEMPORARY CONSTRUCTION FENCE PER DETAIL 3 ON G8.6. SHOWN OFFSET FROM PAVEMENT EDGE FOR CLARITY.
26. DEMOLISH EXISTING FLUSH FIRE HYDRANT, VAULT AND ALL APPURTENANCES. IF HYDRANT IS OUTSIDE DREDGE CUTBACK, CUT AND CAP DRAIN LINE, PER DETAIL 3 ON D2.1.
27. DEMOLISH EXISTING GEOTEXTILE AND SANDBAG SHORELINE PROTECTION SYSTEM.
28. REMOVE RIP RAP AND APPROXIMATELY 1,300 LF OF REMNANT CONCRETE PILE DEBRIS IN FRONT OF THE SUBSTATION, SEE SHEET C2.1 FOR RIP RAP REMOVAL.
29. EXTRACT (33) 16-1/2"ø CONCRETE BATTER PILES LEFTOVER FROM PHASE 1. APPROXIMATE PILE LENGTH=75' EACH.
30. DEMOLISH REMNANT CONCRETE PILE ANCHORS AT TOP OF SLOPE.
31. 6' DEEP EXPLORATORY EXCAVATION PIT FOR BURIED TIMBER BULKHEAD, SEE SHEET D2.2 FOR HORIZONTAL CONTROL. PITS TO BE BACKFILLED AND COMPACTED PER SPECIFICATIONS.
32. POSSIBLE BURIED TIMBER BULKHEAD OUTLINE, APPROX. 700'x60'. SEE TIMBER BULKHEAD NOTES.
33. REMOVE AND SALVAGE LIGHT POLE. DEMOLISH CONCRETE BASE. SEE DETAIL 1 ON D2.2 AND SEE ELECTRICAL DEMOLITION PLANS FOR SEQUENCING.



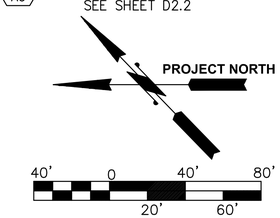
KEYMAP

NOTES

1. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL DEMOLITION PLANS E2.1 AND E2.2 FOR ELECTRICAL AND COMMUNICATION DEMOLITION REQUIREMENTS, INCLUDING HIGH MAST LIGHT POLE DEMOLITION REQUIREMENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED FOR SALVAGE IN SPECIFICATIONS, SEE SECTION 02 41 00.
5. SEE SHEET D2.2 FOR SAWCUT CONTROL.
6. REFER TO SPECIFICATION SECTION 01 14 00, WORK RESTRICTIONS FOR WORK SEQUENCE, SCHEDULE CONSTRAINTS, AND WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS.

LEGEND

- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE
- DREDGE BOUNDARY / TOP OF SLOPE
- DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES
- DEMOLISH ASPHALT PAVING AND BASE COURSE. SAWCUT AS REQUIRED
- DEMOLISH EXISTING BUILDING
- DEMOLISH EXISTING ELECTRICAL SUBSTATION
- TIMBER BULKHEAD EXPLORATORY EXCAVATION PIT
- CONC BATTER PILE TO BE DEMOLISHED
- RIP RAP SLOPE TO BE DEMOLISHED
- DEMOLISH ASPHALT PAVING AND PIER BALLAST. SAWCUT AS REQUIRED
- CUT AND CAP EXISTING UTILITY (1 / D2.1)
- EXISTING ECOLOGY BLOCKS
- SD, SS, DW, FW, W — DEMOLISH AND REMOVE EXISTING UTILITY PER KEY NOTES
- P1 — PHOTO ORIENTATION, SEE SHEET D2.2
- A3 — SAWCUT CONTROL POINT, SEE SHEET D2.2



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE	PROJ. ENGR	DATE
DIRECTOR ENG.	DATE	PRINTED BY:	smillett Jul 16, 2018
PORT ADDRESS:	ONE SITCUM PLAZA		
TACOMA, WA 98401-1837			

PIER 4 PHASE 2 RECONFIGURATION
UTILITY AND SITE DEMOLITION PLAN - SHEET 1

TOWNSHIP:		RANGE:	SECTION:
DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:		DRAWING SCALE:	AS NOTED

6552 D1.1 SH 20 OF 499

CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

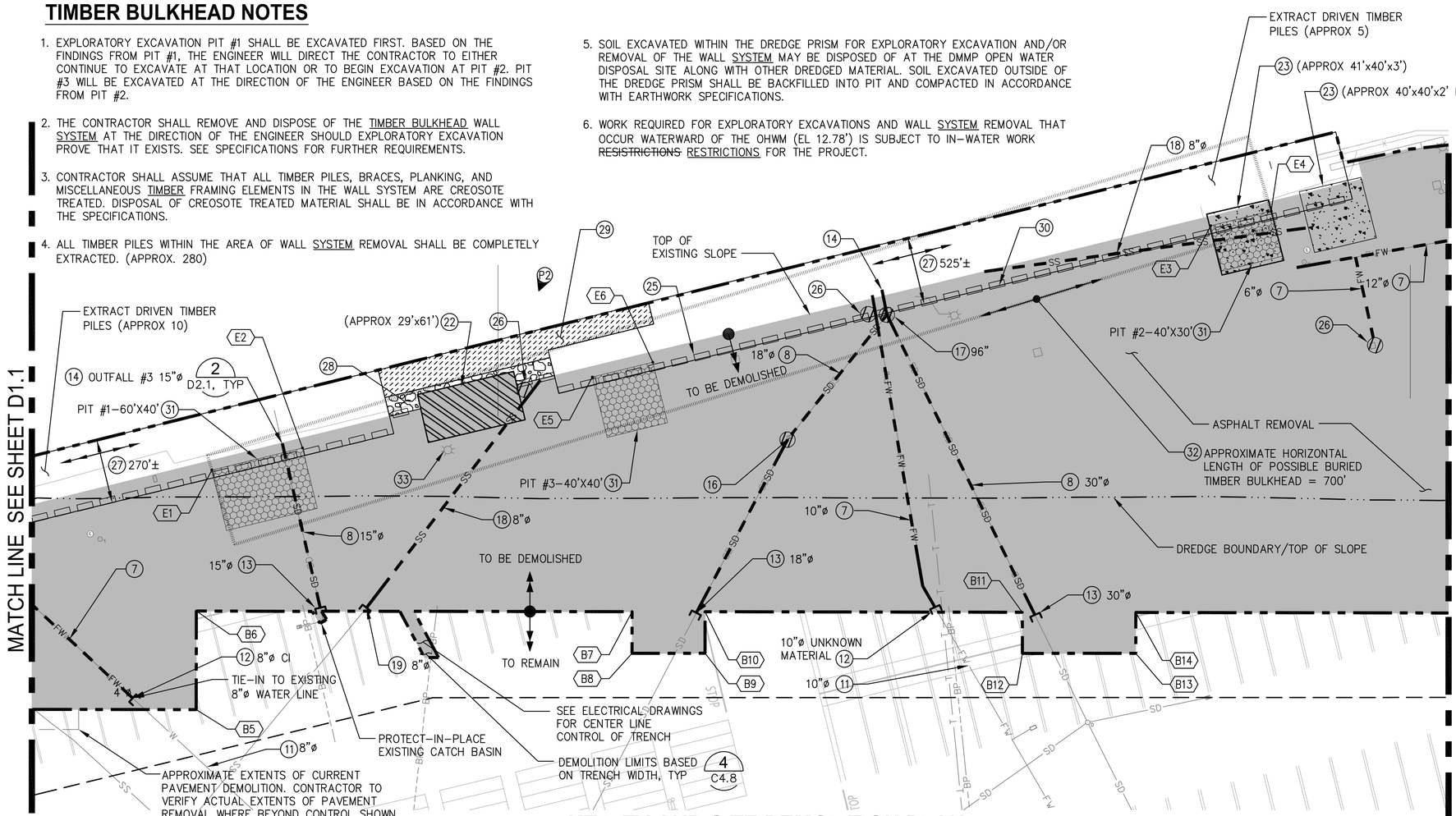
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D1.1-D1.2-D1.3 (Utility and Site Demolition Plan - Sheet X)
BINDING EDGE

BINDING EDGE

TIMBER BULKHEAD NOTES

1. EXPLORATORY EXCAVATION PIT #1 SHALL BE EXCAVATED FIRST. BASED ON THE FINDINGS FROM PIT #1, THE ENGINEER WILL DIRECT THE CONTRACTOR TO EITHER CONTINUE TO EXCAVATE AT THAT LOCATION OR TO BEGIN EXCAVATION AT PIT #2. PIT #3 WILL BE EXCAVATED AT THE DIRECTION OF THE ENGINEER BASED ON THE FINDINGS FROM PIT #2.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TIMBER BULKHEAD WALL SYSTEM AT THE DIRECTION OF THE ENGINEER SHOULD EXPLORATORY EXCAVATION PROVE THAT IT EXISTS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
3. CONTRACTOR SHALL ASSUME THAT ALL TIMBER PILES, BRACES, PLANKING, AND MISCELLANEOUS TIMBER FRAMING ELEMENTS IN THE WALL SYSTEM ARE CREOSOTE TREATED. DISPOSAL OF CREOSOTE TREATED MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
4. ALL TIMBER PILES WITHIN THE AREA OF WALL SYSTEM REMOVAL SHALL BE COMPLETELY EXTRACTED. (APPROX. 280)
5. SOIL EXCAVATED WITHIN THE DREDGE PRISM FOR EXPLORATORY EXCAVATION AND/OR REMOVAL OF THE WALL SYSTEM MAY BE DISPOSED OF AT THE DMMP OPEN WATER DISPOSAL SITE ALONG WITH OTHER DREDGED MATERIAL. SOIL EXCAVATED OUTSIDE OF THE DREDGE PRISM SHALL BE BACKFILLED INTO PIT AND COMPACTED IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS.
6. WORK REQUIRED FOR EXPLORATORY EXCAVATIONS AND WALL SYSTEM REMOVAL THAT OCCUR WATERWARD OF THE OHWM (EL 12.78') IS SUBJECT TO IN-WATER WORK ~~RESISTRICTIONS~~ RESTRICTIONS FOR THE PROJECT.

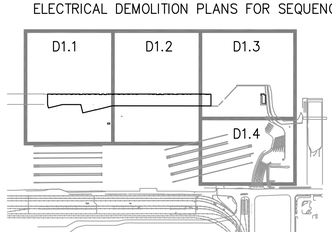


UTILITY AND SITE DEMOLITION PLAN

SCALE: 1"=40'

KEY NOTES

1. PRIOR TO BEGINNING WATER LINE DEMOLITION, FIELD LOCATE AND CLOSE EXISTING GATE VALVES.
2. ABANDON EXISTING WATER LINE.
3. ABANDON EXISTING STORM DRAIN LINE.
4. CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SIZE AND MATERIAL PER PLAN.
5. DEMOLISH EXISTING 4"ø DOMESTIC WATER LINE.
6. REMOVE EXISTING PAVEMENT MARKINGS FROM EXISTING PIER 4 STRUCTURE WHICH IS TO REMAIN IN PLACE.
7. DEMOLISH EXISTING FIRE WATER LINE.
8. DEMOLISH EXISTING STORM DRAIN LINE.
9. DEMOLISH EXISTING CLEAN OUT.
10. DEMOLISH EXISTING GATE VALVE.
11. PROTECT-IN-PLACE EXISTING FIRE WATER LINE.
12. TEMPORARILY CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
13. TEMPORARILY CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE, SEE SHEETS C5.1 THRU C5.3 FOR FUTURE CONNECTION.
14. DEMOLISH CONCRETE OUTFALL PIPE.
15. DEMOLISH EXISTING AIR RELEASE VALVE, TEMPORARILY CUT AND CAP PRESSURIZED WATER LINE PER DETAIL 1 ON SHEET D2.1. SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
16. DEMOLISH EXISTING STORM DRAIN CATCH BASIN AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
17. DEMOLISH EXISTING STORM DRAIN MANHOLE AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
18. DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE AND CONNECTED STRUCTURES.
19. CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE PER DETAIL 1 ON D2.1.
20. CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE PER DETAIL 1 ON D2.1.
21. DEMOLISH MARINE OPERATIONS BUILDING, ADJACENT CONCRETE PADS, ASSOCIATED STRUCTURES, BOLLARDS, WHEEL STOPS, AND UTILITIES.
22. DEMOLISH EXISTING ELECTRICAL SUBSTATION, ASSOCIATED CONCRETE PADS, VAULTS AND UTILITY LINES UNLESS NOTED OTHERWISE, ONLY AFTER TEMPORARY POWER SYSTEMS HAVE BEEN INSTALLED, SEE ELECTRICAL PLANS FOR TEMPORARY ELECTRICAL SERVICE AND DEMOLITION.
23. DEMOLISH REMNANT CONCRETE PAD.
24. PROTECT-IN-PLACE EXISTING FIRE AND DOMESTIC WATER LINES AT HIGH MAST LIGHT POLE, SEE UTILITY AND ELECTRICAL PLANS.
25. PRIOR TO START OF WORK SALVAGE EXISTING ECOLOGY BLOCKS AND PLACE INSIDE TEMPORARY CONSTRUCTION FENCE PER DETAIL 3 ON G8.6. SHOWN OFFSET FROM PAVEMENT EDGE FOR CLARITY.
26. DEMOLISH EXISTING FLUSH FIRE HYDRANT, VAULT AND ALL APPURTENANCES. IF HYDRANT IS OUTSIDE DREDGE CUTBACK, CUT AND CAP DRAIN LINE, PER DETAIL 3 ON D2.1.
27. DEMOLISH EXISTING GEOTEXTILE AND SANDBAG SHORELINE PROTECTION SYSTEM.
28. REMOVE RIP RAP AND APPROXIMATELY 1,300 LF OF REMNANT CONCRETE PILE DEBRIS IN FRONT OF THE SUBSTATION, SEE SHEET C2.1 FOR RIP RAP REMOVAL.
29. EXTRACT (33) 16-1/2"ø CONCRETE BATTER PILES LEFTOVER FROM PHASE 1. APPROXIMATE PILE LENGTH=75' EACH.
30. DEMOLISH REMNANT CONCRETE PILE ANCHORS AT TOP OF SLOPE.
31. 6' DEEP EXPLORATORY EXCAVATION PIT FOR BURIED TIMBER BULKHEAD WALL SYSTEM, SEE SHEET D2.2 FOR HORIZONTAL CONTROL. PITS TO BE BACKFILLED AND COMPACTED PER SPECIFICATIONS.
32. POSSIBLE BURIED TIMBER BULKHEAD WALL SYSTEM OUTLINE, APPROX. 700'x60'. SEE TIMBER BULKHEAD NOTES.
33. REMOVE AND SALVAGE LIGHT POLE. DEMOLISH CONCRETE BASE. SEE DETAIL 1 ON D2.2 AND SEE ELECTRICAL DEMOLITION PLANS FOR SEQUENCING.



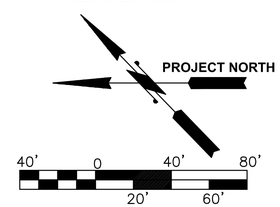
KEYMAP

NOTES

1. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL DEMOLITION PLANS E2.1 AND E2.2 FOR ELECTRICAL AND COMMUNICATION DEMOLITION REQUIREMENTS, INCLUDING HIGH MAST LIGHT POLE DEMOLITION REQUIREMENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED FOR SALVAGE IN SPECIFICATIONS, SEE SECTION 02 41 00.
5. SEE SHEET D2.2 FOR SAWCUT CONTROL.
6. REFER TO SPECIFICATION SECTION 01 14 00, WORK RESTRICTIONS FOR WORK SEQUENCE, SCHEDULE CONSTRAINTS, AND WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS.

LEGEND

- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE
- DREDGE BOUNDARY / TOP OF SLOPE
- DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES
- DEMOLISH ASPHALT PAVING AND BASE COURSE. SAWCUT AS REQUIRED
- DEMOLISH EXISTING BUILDING
- DEMOLISH EXISTING ELECTRICAL SUBSTATION
- TIMBER BULKHEAD EXPLORATORY EXCAVATION PIT
- CONC BATTER PILE TO BE DEMOLISHED
- RIP RAP SLOPE TO BE DEMOLISHED
- DEMOLISH ASPHALT PAVING AND PIER BALLAST. SAWCUT AS REQUIRED
- CUT AND CAP EXISTING UTILITY (1 / D2.1)
- EXISTING ECOLOGY BLOCKS
- SD, SS, DW, FW, W — DEMOLISH AND REMOVE EXISTING UTILITY PER KEY NOTES
- P1 — PHOTO ORIENTATION, SEE SHEET D2.2
- A3 — SAWCUT CONTROL POINT, SEE SHEET D2.2



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
UTILITY AND SITE DEMOLITION PLAN - SHEET 2

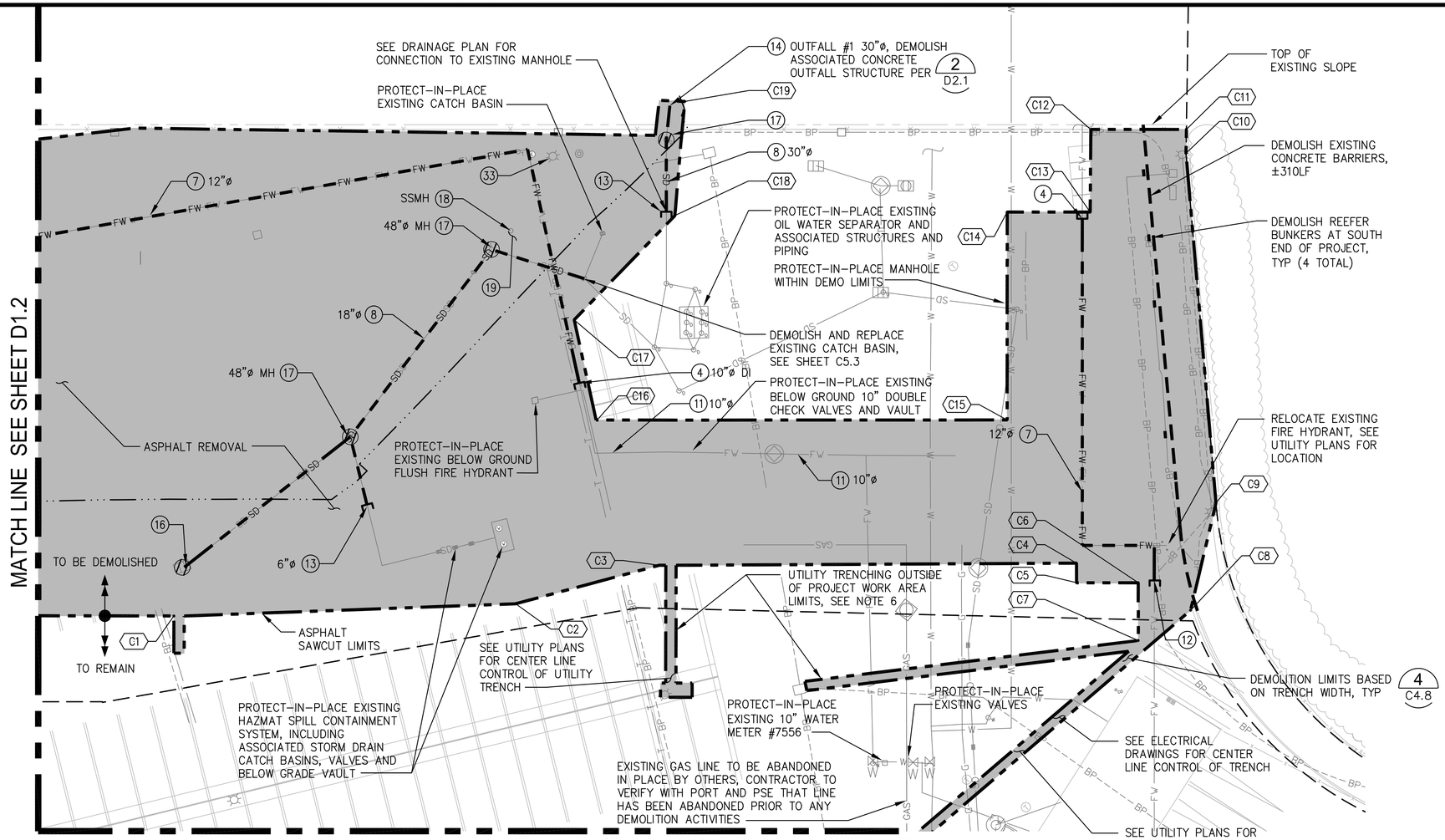
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PROJ. ENGR DATE
PRINTED BY: smillet Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
D1.2
SH 21 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D1.1-D1.2-D1.3 (Utility and Site Demolition Plan - Sheet X)



UTILITY AND SITE DEMOLITION PLAN

SCALE: 1"=40'

NOTES

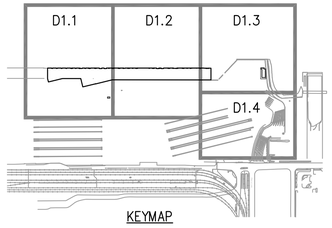
1. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL DEMOLITION PLANS E2.1 AND E2.2 FOR ELECTRICAL AND COMMUNICATION DEMOLITION REQUIREMENTS, INCLUDING HIGH MAST LIGHT POLE DEMOLITION REQUIREMENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED FOR SALVAGE IN SPECIFICATIONS, SEE SECTION 02 41 00.
5. SEE SHEET D2.2 FOR SAWCUT CONTROL.
6. REFER TO SPECIFICATION SECTION 01 14 00, WORK RESTRICTIONS FOR WORK SEQUENCE, SCHEDULE CONSTRAINTS, AND WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS.

LEGEND

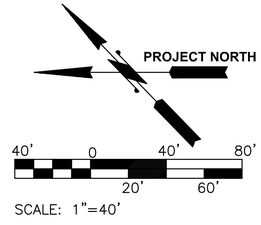
- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE
- DREDGE BOUNDARY / TOP OF SLOPE
- DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES
- DEMOLISH ASPHALT PAVING AND BASE COURSE. SAWCUT AS REQUIRED
- DEMOLISH EXISTING BUILDING
- DEMOLISH EXISTING ELECTRICAL SUBSTATION
- TIMBER BULKHEAD EXPLORATORY EXCAVATION PIT
- CONC BATTER PILE TO BE DEMOLISHED
- RIP RAP SLOPE TO BE DEMOLISHED
- DEMOLISH ASPHALT PAVING AND PIER BALLAST. SAWCUT AS REQUIRED
- CUT AND CAP EXISTING UTILITY 1 D2.1
- EXISTING ECOLOGY BLOCKS
- SD, SS, DW, FW, W — DEMOLISH AND REMOVE EXISTING UTILITY PER KEY NOTES
- P1 — PHOTO ORIENTATION, SEE SHEET D2.2
- A3 — SAWCUT CONTROL POINT, SEE SHEET D2.2

KEY NOTES

1. PRIOR TO BEGINNING WATER LINE DEMOLITION, FIELD LOCATE AND CLOSE EXISTING GATE VALVES.
2. ABANDON EXISTING WATER LINE.
3. ABANDON EXISTING STORM DRAIN LINE.
4. CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SIZE AND MATERIAL PER PLAN.
5. DEMOLISH EXISTING 4"ø DOMESTIC WATER LINE.
6. REMOVE EXISTING PAVEMENT MARKINGS FROM EXISTING PIER 4 STRUCTURE WHICH IS TO REMAIN IN PLACE.
7. DEMOLISH EXISTING FIRE WATER LINE.
8. DEMOLISH EXISTING STORM DRAIN LINE.
9. DEMOLISH EXISTING CLEAN OUT.
10. DEMOLISH EXISTING GATE VALVE.
11. PROTECT-IN-PLACE EXISTING FIRE WATER LINE.
12. TEMPORARILY CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
13. TEMPORARILY CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE, SEE SHEETS C5.1 THRU C5.3 FOR FUTURE CONNECTION.
14. DEMOLISH CONCRETE OUTFALL PIPE.
15. DEMOLISH EXISTING AIR RELEASE VALVE, TEMPORARILY CUT AND CAP PRESSURIZED WATER LINE PER DETAIL 1 ON SHEET D2.1. SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
16. DEMOLISH EXISTING STORM DRAIN CATCH BASIN AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
17. DEMOLISH EXISTING STORM DRAIN MANHOLE AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
18. DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE AND CONNECTED STRUCTURES.
19. CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE PER DETAIL 1 ON D2.1.
20. CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE PER DETAIL 1 ON D2.1.
21. DEMOLISH MARINE OPERATIONS BUILDING, ADJACENT CONCRETE PADS, ASSOCIATED STRUCTURES, BOLLARDS, WHEEL STOPS, AND UTILITIES.
22. DEMOLISH EXISTING ELECTRICAL SUBSTATION, ASSOCIATED CONCRETE PADS, VAULTS AND UTILITY LINES UNLESS NOTED OTHERWISE, ONLY AFTER TEMPORARY POWER SYSTEMS HAVE BEEN INSTALLED, SEE ELECTRICAL PLANS FOR TEMPORARY ELECTRICAL SERVICE AND DEMOLITION.
23. DEMOLISH REMNANT CONCRETE PAD.
24. PROTECT-IN-PLACE EXISTING FIRE AND DOMESTIC WATER LINES AT HIGH MAST LIGHT POLE, SEE UTILITY AND ELECTRICAL PLANS.
25. PRIOR TO START OF WORK SALVAGE EXISTING ECOLOGY BLOCKS AND PLACE INSIDE TEMPORARY CONSTRUCTION FENCE PER DETAIL 3 ON G8.6. SHOWN OFFSET FROM PAVEMENT EDGE FOR CLARITY.
26. DEMOLISH EXISTING FLUSH FIRE HYDRANT, VAULT AND ALL APPURTENANCES. IF HYDRANT IS OUTSIDE DREDGE CUTBACK, CUT AND CAP DRAIN LINE, PER DETAIL 3 ON D2.1.
27. DEMOLISH EXISTING GEOTEXTILE AND SANDBAG SHORELINE PROTECTION SYSTEM.
28. REMOVE RIP RAP AND APPROXIMATELY 1,300 LF OF REMNANT CONCRETE PILE DEBRIS IN FRONT OF THE SUBSTATION, SEE SHEET C2.1 FOR RIP RAP REMOVAL.
29. EXTRACT (33) 16-1/2"ø CONCRETE BATTER PILES LEFTOVER FROM PHASE 1. APPROXIMATE PILE LENGTH=75' EACH.
30. DEMOLISH REMNANT CONCRETE PILE ANCHORS AT TOP OF SLOPE.
31. 6' DEEP EXPLORATORY EXCAVATION PIT FOR BURIED TIMBER BULKHEAD, SEE SHEET D2.2 FOR HORIZONTAL CONTROL. PITS TO BE BACKFILLED AND COMPACTED PER SPECIFICATIONS.
32. POSSIBLE BURIED TIMBER BULKHEAD OUTLINE, APPROX. 700'x60'. SEE TIMBER BULKHEAD NOTES.
33. REMOVE AND SALVAGE LIGHT POLE. DEMOLISH CONCRETE BASE. SEE DETAIL 1 ON D2.2 AND SEE ELECTRICAL DEMOLITION PLANS FOR SEQUENCING.



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2539358841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE
PRINTED BY: smillett Jul 16, 2018	
PORT ADDRESS: ONE SITCUM PLAZA	
TACOMA, WA 98401-1837	

PIER 4 PHASE 2 RECONFIGURATION
UTILITY AND SITE DEMOLITION PLAN - SHEET 3

6552
D1.3
SH 22 OF 499

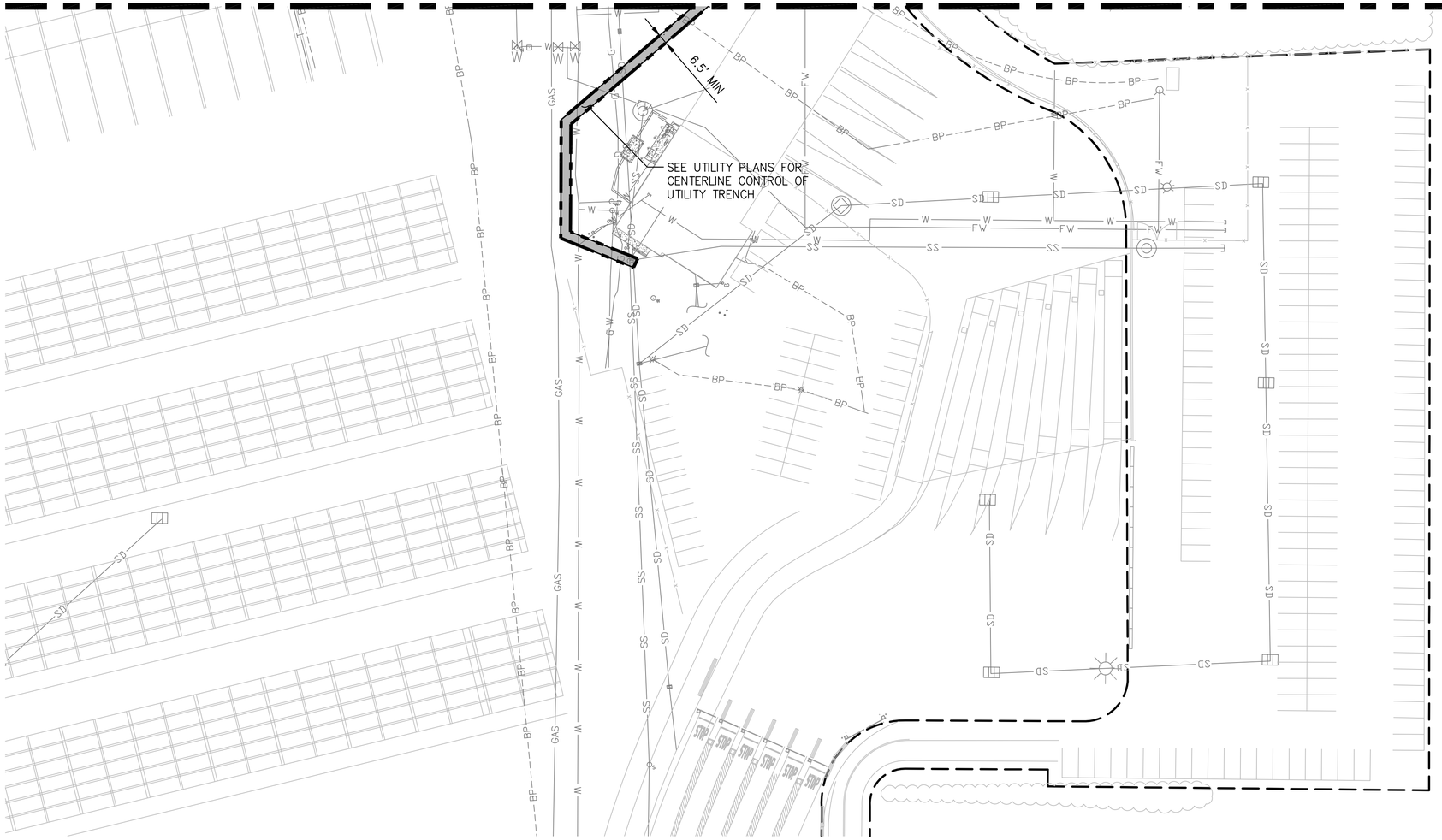
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D1.1-D1.2-D1.3 (Utility and Site Demolition Plan - Sheet X)
BINDING EDGE

BINDING EDGE

MATCH LINE SEE SHEET D1.3



NOTES

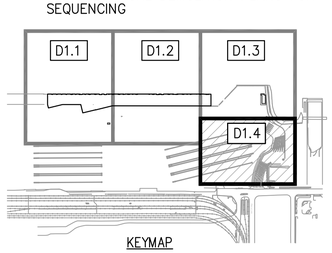
1. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL DEMOLITION PLANS E2.1, AND E2.2 FOR ELECTRICAL AND COMMUNICATION DEMOLITION REQUIREMENTS, INCLUDING HIGH MAST LIGHT POLE DEMOLITION REQUIREMENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED FOR SALVAGE IN SPECIFICATIONS, SEE SECTION 02 41 00.
5. SEE SHEET D2.2 FOR SAWCUT CONTROL.
6. REFER TO SPECIFICATION SECTION 01 14 00, WORK RESTRICTIONS FOR WORK SEQUENCE, SCHEDULE CONSTRAINTS, AND WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS.

LEGEND

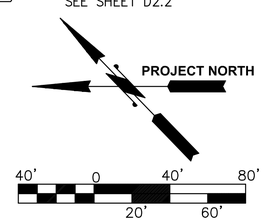
- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE
- DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES
- DEMOLISH ASPHALT PAVING AND BASE COURSE. SAWCUT AS REQUIRED
- DEMOLISH EXISTING BUILDING
- DEMOLISH EXISTING ELECTRICAL SUBSTATION
- TIMBER BULKHEAD EXPLORATORY EXCAVATION PIT
- CONC BATTER PILE TO BE DEMOLISHED
- RIP RAP SLOPE TO BE DEMOLISHED
- DEMOLISH ASPHALT PAVING AND PIER BALLAST. SAWCUT AS REQUIRED
- CUT AND CAP EXISTING UTILITY (1 / D2.1)
- DREDGE BOUNDARY / TOP OF SLOPE
- EXISTING ECOLOGY BLOCKS
- SD, SS, DW, FW, W — DEMOLISH AND REMOVE EXISTING UTILITY PER KEY NOTES
- P1 — PHOTO ORIENTATION, SEE SHEET D2.2
- A3 — SAWCUT CONTROL POINT, SEE SHEET D2.2

KEY NOTES

1. PRIOR TO BEGINNING WATER LINE DEMOLITION, FIELD LOCATE AND CLOSE EXISTING GATE VALVES
2. ABANDON EXISTING WATER LINE
3. ABANDON EXISTING STORM DRAIN LINE
4. CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SIZE AND MATERIAL PER PLAN
5. DEMOLISH EXISTING 4"ø DOMESTIC WATER LINE
6. REMOVE EXISTING PAVEMENT MARKINGS FROM EXISTING PIER 4 STRUCTURE WHICH IS TO REMAIN IN PLACE
7. DEMOLISH EXISTING FIRE WATER LINE
8. DEMOLISH EXISTING STORM DRAIN LINE
9. DEMOLISH EXISTING CLEAN OUT
10. DEMOLISH EXISTING GATE VALVE
11. PROTECT–IN–PLACE EXISTING FIRE WATER LINE
12. TEMPORARILY CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION
13. TEMPORARILY CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE, SEE SHEETS C5.1 THRU C5.3 FOR FUTURE CONNECTION
14. DEMOLISH CONCRETE OUTFALL PIPE
15. DEMOLISH EXISTING AIR RELEASE VALVE, TEMPORARILY CUT AND CAP PRESSURIZED WATER LINE PER DETAIL 1 ON SHEET D2.1. SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION
16. DEMOLISH EXISTING STORM DRAIN CATCH BASIN AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK
17. DEMOLISH EXISTING STORM DRAIN MANHOLE AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK
18. DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE
19. CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE PER DETAIL 1 ON D2.1
20. CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE PER DETAIL 1 ON D2.1
21. DEMOLISH MARINE OPERATIONS BUILDING, ADJACENT CONCRETE PADS, ASSOCIATED STRUCTURES, BOLLARDS, WHEEL STOPS, AND UTILITIES
22. DEMOLISH EXISTING ELECTRICAL SUBSTATION, ASSOCIATED CONCRETE PADS, VAULTS AND UTILITY LINES UNLESS NOTED OTHERWISE, ONLY AFTER TEMPORARY POWER SYSTEMS HAVE BEEN INSTALLED, SEE ELECTRICAL PLANS FOR TEMPORARY ELECTRICAL SERVICE AND DEMOLITION
23. DEMOLISH REMNANT CONCRETE PAD
24. PROTECT–IN–PLACE EXISTING FIRE AND DOMESTIC WATER LINES AT HIGH MAST LIGHT POLE, SEE UTILITY AND ELECTRICAL PLANS
25. PRIOR TO START OF WORK SALVAGE EXISTING ECOLOGY BLOCKS AND PLACE INSIDE TEMPORARY CONSTRUCTION FENCE PER DETAIL 3 ON G8.6. SHOWN OFFSET FROM PAVEMENT EDGE FOR CLARITY
26. DEMOLISH EXISTING FLUSH FIRE HYDRANT, VAULT AND ALL APPURTENANCES. IF HYDRANT IS OUTSIDE DREDGE CUTBACK, CUT AND CAP DRAIN LINE, PER DETAIL 3 ON D2.1.
27. DEMOLISH EXISTING GEOTEXTILE AND SANDBAG SHORELINE PROTECTION SYSTEM
28. REMOVE RIP RAP AND APPROXIMATELY 1,300 LF OF REMNANT CONCRETE PILE DEBRIS IN FRONT OF THE SUBSTATION, SEE SHEET C2.1 FOR RIP RAP REMOVAL
29. EXTRACT (33) 16–1/2"ø CONCRETE BATTER PILES LEFTOVER FROM PHASE 1. APPROXIMATE PILE LENGTH=75' EACH
30. DEMOLISH REMNANT CONCRETE PILE ANCHORS AT TOP OF SLOPE
31. 6' DEEP EXPLORATORY EXCAVATION PIT FOR BURIED TIMBER BULKHEAD, SEE SHEET D2.2 FOR HORIZONTAL CONTROL
32. POSSIBLE BURIED TIMBER BULKHEAD OUTLINE, APPROX. 700'x60'. SEE TIMBER BULKHEAD NOTES
33. REMOVE AND SALVAGE LIGHT POLE. DEMOLISH CONCRETE BASE. SEE DETAIL 1 ON D2.2 AND SEE ELECTRICAL DEMOLITION PLANS FOR SEQUENCING



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535583841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PROJ. ENGR	DATE		

PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

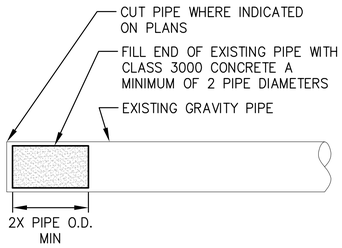
PIER 4 PHASE 2 RECONFIGURATION
UTILITY AND SITE DEMOLITION PLAN - SHEET 4

CONT/CONS:	070136	TOWNSHIP:	
M. ID:	091251	DAT–HRZ:	WA83–SF
PHASE:	CONFORMED	PARCEL:	
SECTION:			
RANGE:			
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

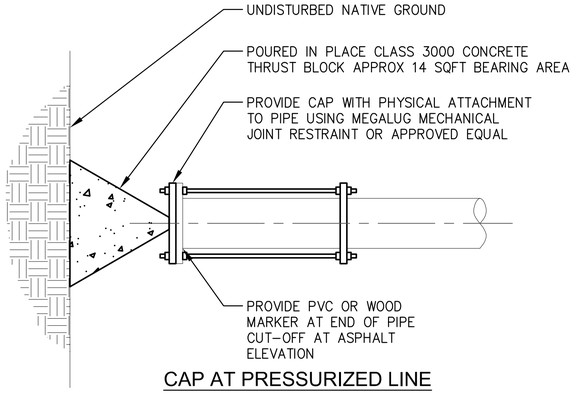
6552
D1.4
SH 23 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D1.4 (Utility and Site Demolition Plan - Sheet 4)



CAP AT GRAVITY LINE



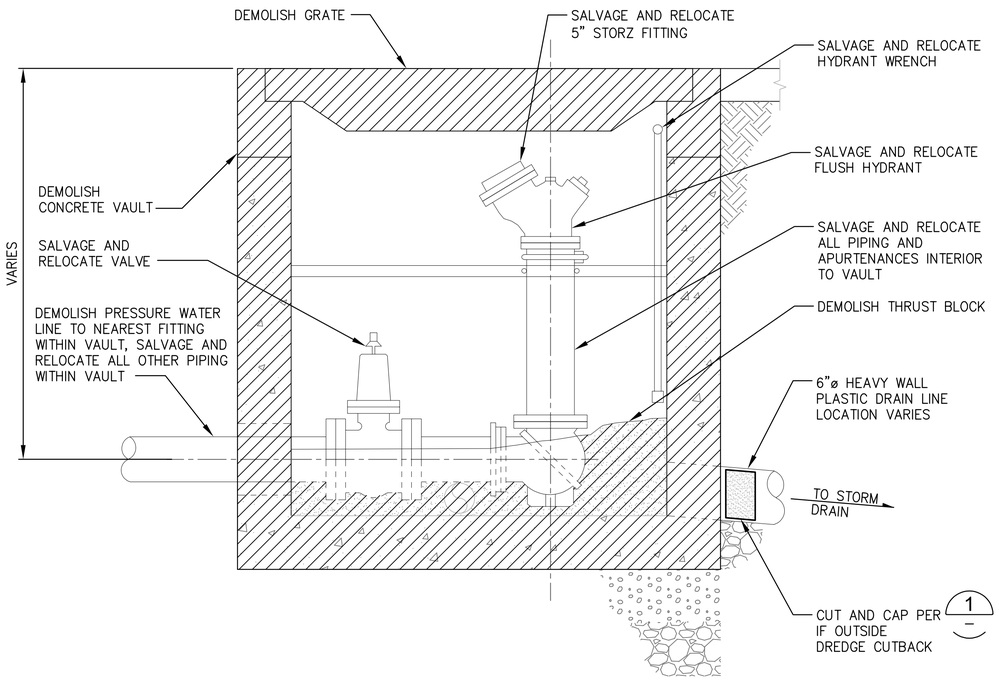
CAP AT PRESSURIZED LINE

NOTES

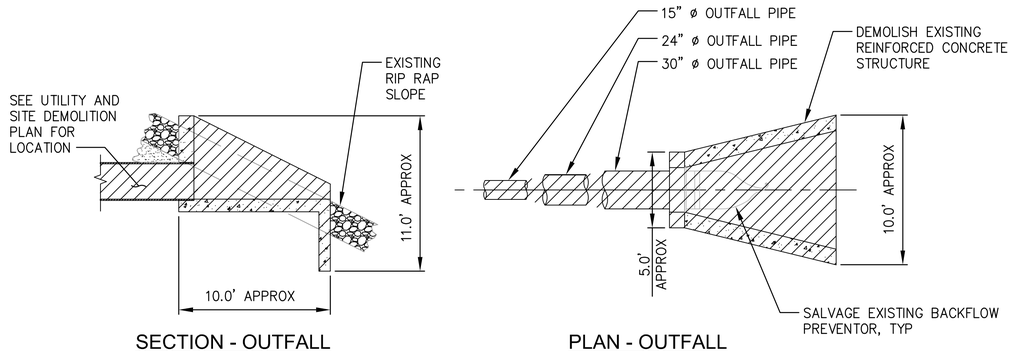
1. THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND.
2. THRUST BLOCK AREA SHALL BE CENTERED ON PIPE.
3. CLASS 3000 CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI.
4. EXISTING PIPE TYPES VARY, CONTRACTOR TO FIELD VERIFY PRIOR TO BEGINNING DEMOLITION.

1 CUT AND CAP DETAIL

D1.1, D1.2, D1.3 — NTS



SECTION A



SECTION - OUTFALL

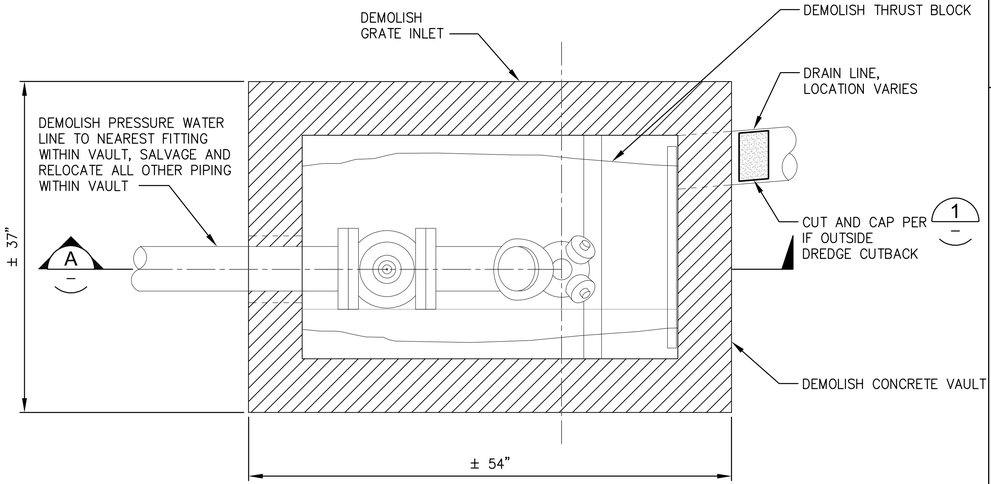
PLAN - OUTFALL

NOTES:

1. ALL DIMENSIONS PROVIDED FOR REFERENCE ONLY.
2. COMPLETELY DEMOLISH OUTFALL PIPING AND REINFORCED CONCRETE WING WALLS AND APRON.

2 OUTFALL DEMOLITION DETAIL

D1.2, D1.3 — NTS



3 FLUSH FIRE HYDRANT DEMOLITION DETAIL

D1.1, D1.2 — NTS

NOTES:

1. SEE UTILITY PLAN C6.3 FOR LOCATION OF RELOCATED FLUSH FIRE HYDRANT.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535358841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
UTILITY AND SITE DEMOLITION DETAILS - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: smillett Jul 16, 2018 | PROJ. ENGR DATE
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
D2.1
SH 24 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D2.1 (Demolition Details - Sheet 1)

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D2.2 (Demolition Details - Sheet 1)

SAWCUT HORIZONTAL CONTROL

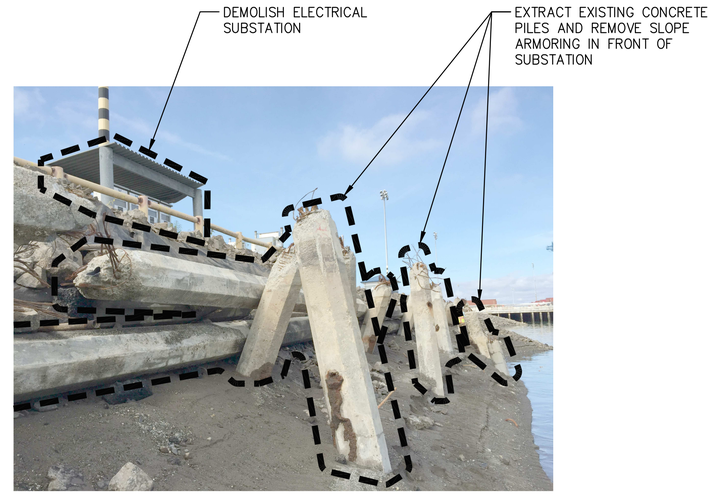
POINT ID	NORTHING	EASTING
A1	713737.84	1166253.15
A2	713740.64	1166250.06
A3	713738.38	1166247.87
A4	713741.38	1166244.78
A5	713743.64	1166246.97
A6	713754.56	1166235.70
A7	713752.30	1166233.51
A8	713752.80	1166232.99
A9	713738.40	1166219.03
A10	713727.40	1166219.07
A11	713623.66	1166118.53
A12	713536.22	1166267.96
A13	713379.14	1166429.00
A14	713363.07	1166419.59
A15	713357.11	1166329.30
A16	713380.16	1166289.96
A17	713338.14	1166224.24
A18	713154.84	1166413.08
A19	713153.68	1166487.43
A20	713073.99	1166569.81
A21	713059.31	1166555.60
A22	NOT USED	NOT USED
A23	NOT USED	NOT USED

SAWCUT HORIZONTAL CONTROL

POINT ID	NORTHING	EASTING
B1	NOT USED	NOT USED
B2	NOT USED	NOT USED
B3	NOT USED	NOT USED
B4	NOT USED	NOT USED
B5	712964.58	1166653.10
B6	713010.05	1166697.27
B7	712814.79	1166898.10
B8	712795.56	1166879.49
B9	712762.93	1166913.22
B10	712782.13	1166931.79
B11	712639.90	1167078.01
B12	712620.91	1167059.64
B13	712570.21	1167112.04
B14	712589.01	1167130.34
C1	712389.13	1167335.93
C2	712244.41	1167496.32
C3	712198.79	1167578.31
C4	712016.27	1167768.61
C5	712007.34	1167760.04
C6	711980.23	1167788.00
C7	711954.02	1167762.62
C8	711944.72	1167799.64
C9	711982.20	1167858.28
C10	712154.01	1167998.47
C11	712164.66	1168009.10
C12	712206.70	1167965.72
C13	712169.43	1167929.12
C14	712205.95	1167891.48
C15	712111.72	1167800.06
C16	712292.36	1167613.58
C17	712347.44	1167647.70
C18	712350.44	1167739.20
C19	712397.87	1167793.88

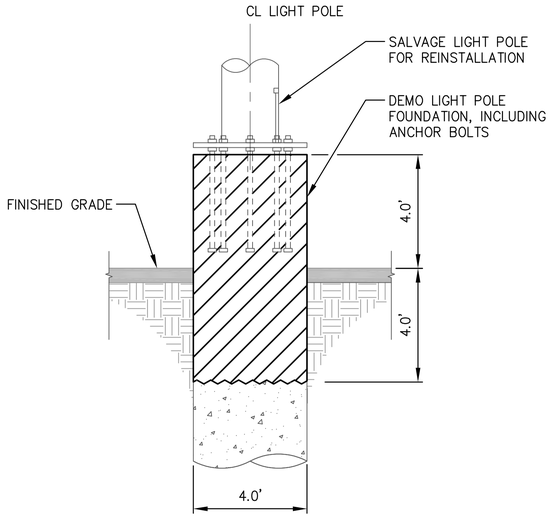
EXPLORATORY EXCAVATION PIT HORIZONTAL CONTROL

POINT ID	NORTHING	EASTING
E1	713068.16	1166767.47
E2	713037.84	1166819.25
E3	712734.12	1167337.91
E4	712713.91	1167372.43
E5	712940.94	1166984.73
E6	712920.73	1167019.25



P3 ELECTRICAL SUBSTATION PROTECTION

NTS



LIGHT POLE FOUNDATION DEMOLITION

1 / D1.1, D1.2, D1.3

NTS



P1 MARINE OPS BUILDING

NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | PROJ. ENGR DATE | CHECKED BY DATE

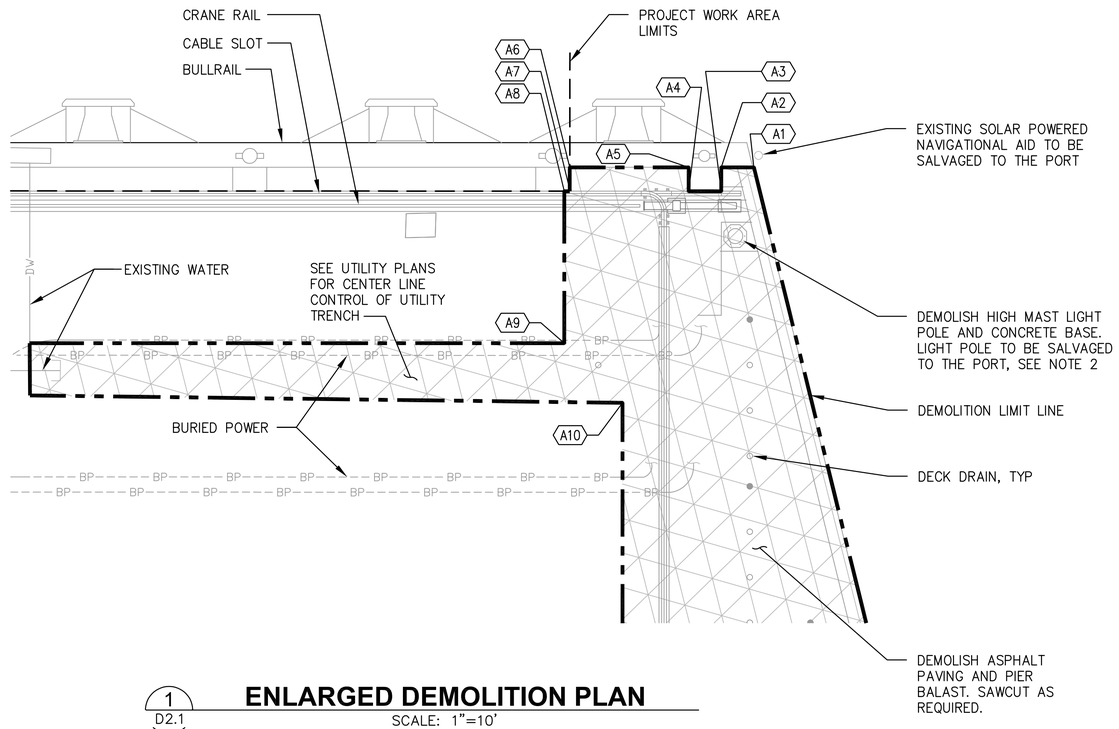
PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
UTILITY AND SITE DEMOLITION DETAILS - SHEET 2

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

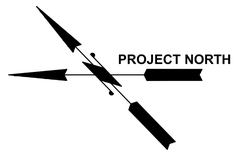
6552
D2.2
SH 25 OF 499

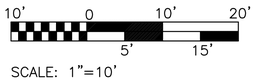
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 / D2.1 **ENLARGED DEMOLITION PLAN**

SCALE: 1"=10'





SCALE: 1"=10'

NOTES

1. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL DEMOLITION PLANS E2.1, AND E2.2 FOR ELECTRICAL AND COMMUNICATION DEMOLITION REQUIREMENTS, INCLUDING HIGH MAST LIGHT POLE DEMOLITION REQUIREMENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED FOR SALVAGE IN SPECIFICATIONS, SEE SECTION 02 41 00.
5. SEE SHEET D2.2 FOR SAWCUT CONTROL.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: smillett Jul 16, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
UTILITY AND SITE DEMOLITION DETAILS - SHEET 3

6552
D2.3
SH 26 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

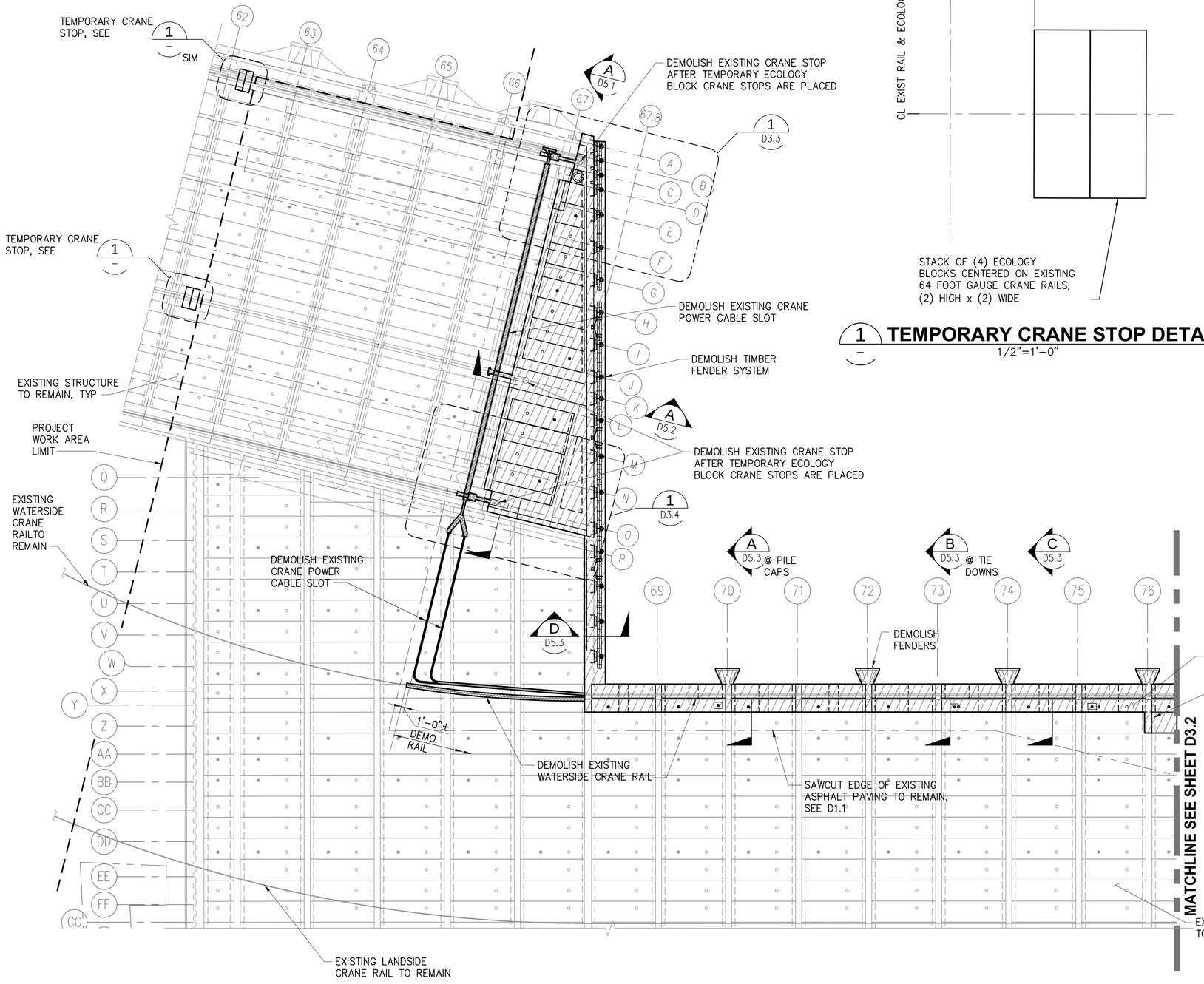
SECTION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

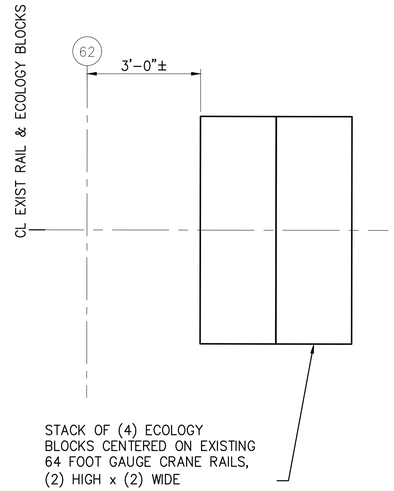
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-D2.3 (Enarged Demo Plan)

BINDING EDGE



PIER DECK DEMOLITION PLAN

1/16" = 1'-0"



1 TEMPORARY CRANE STOP DETAIL

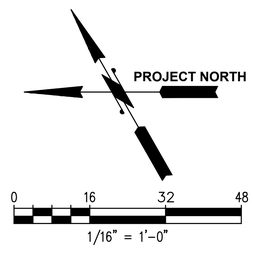
1/2"=1'-0"

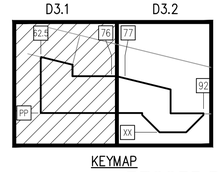
NOTES

1. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. SEE D1.1–D1.3 FOR ASPHALT PAVING AND BALLAST DEMOLITION AND REMOVAL EVENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.
5. CONTRACTOR SHALL NOT DAMAGE THE TEMPORARILY REMAINING CANTILEVERED PORTION OF THE WHARF STRUCTURE DURING DEMOLITION AND CONSTRUCTION OF THE PILE CAP BEAM ALONG THE FACE OF THE EXISTING PIER. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PORT.

LEGEND:

- OUTLINE OF PILE CAP TO BE DEMOLISHED
- OUTLINE OF PILE CAP TO REMAIN
- PROJECT WORK AREA LIMITS
- (XX) BENT NUMBER, ROW NUMBER
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE – PLUMB
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED – BATTER
- TIMBER FENDER PILE
- STEEL FENDER PILE
- FENDER
- DECK PANEL
- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- EXISTING CRANE TIE DOWN TO BE DEMOLISHED
- DECK DRAIN
- SUBSURFACE DRAIN





KEYMAP

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	Jul 20, 2018

PIER 4 PHASE 2
RECONFIGURATION
PIER DECK DEMOLITION PLAN - SHEET 1

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tlemons
DAT–HRZ:	VERT:	PORT ADDRESS:	ONE SITCUM PLAZA
PARCEL:	DRAWING SCALE: AS NOTED		TACOMA, WA 98401–1837

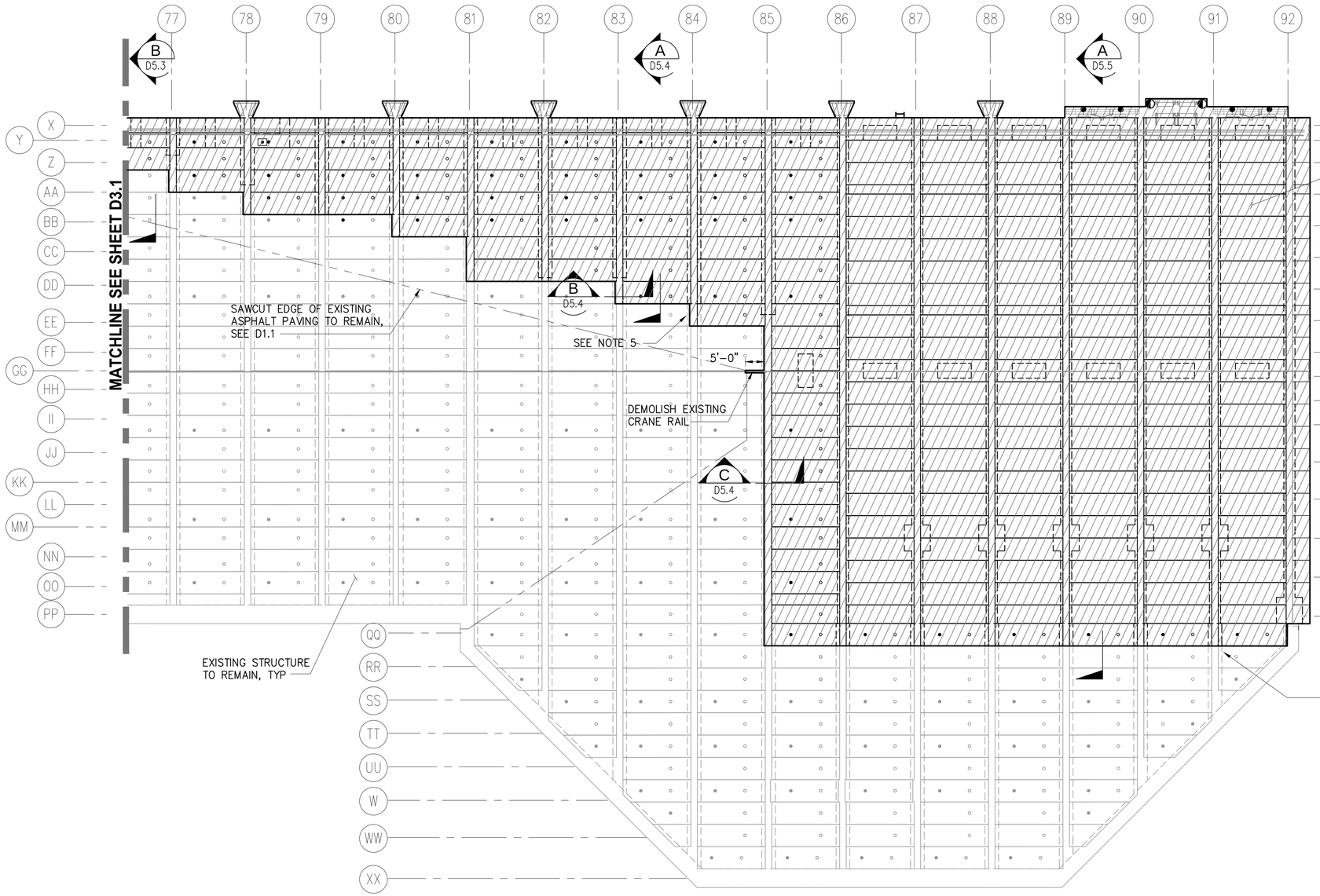
6552
D3.1
SH 27 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D3.1

BINDING EDGE



PIER DECK DEMOLITION PLAN

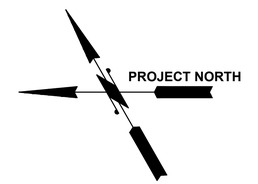
1/16" = 1'-0"

NOTES

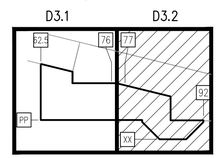
1. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. SEE D1.1–D1.3 FOR ASPHALT PAVING AND BALLAST DEMOLITION AND REMOVAL EVENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.
5. CONTRACTOR SHALL NOT DAMAGE THE TEMPORARILY REMAINING CANTILEVERED PORTION OF THE WHARF STRUCTURE DURING DEMOLITION AND CONSTRUCTION OF THE PILE CAP BEAM ALONG THE FACE OF THE EXISTING PIER. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PORT.

LEGEND:

- OUTLINE OF PILE CAP TO BE DEMOLISHED
- OUTLINE OF PILE CAP TO REMAIN
- XX — BENT NUMBER, ROW NUMBER
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE – PLUMB
- 16 1/2" SOLID OCTAGONAL PRECAST PRESTRESSED – BATTER
- TIMBER FENDER PILE
- STEEL FENDER PILE
- FENDER
- DECK PANEL
- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- CRANE TIE DOWN
- DECK DRAIN
- SUBSURFACE DRAIN



1/16" = 1'-0"



KEYMAP

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK	CHECKED BY	DATE	
TAH	DIRECTOR ENG.	DATE	
tlemons Jul 20, 2018	PRINTED BY:	PROJ. ENGR	DATE
PORT ADDRESS:ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

PIER 4 PHASE 2
RECONFIGURATION
PIER DECK DEMOLITION PLAN - SHEET 2

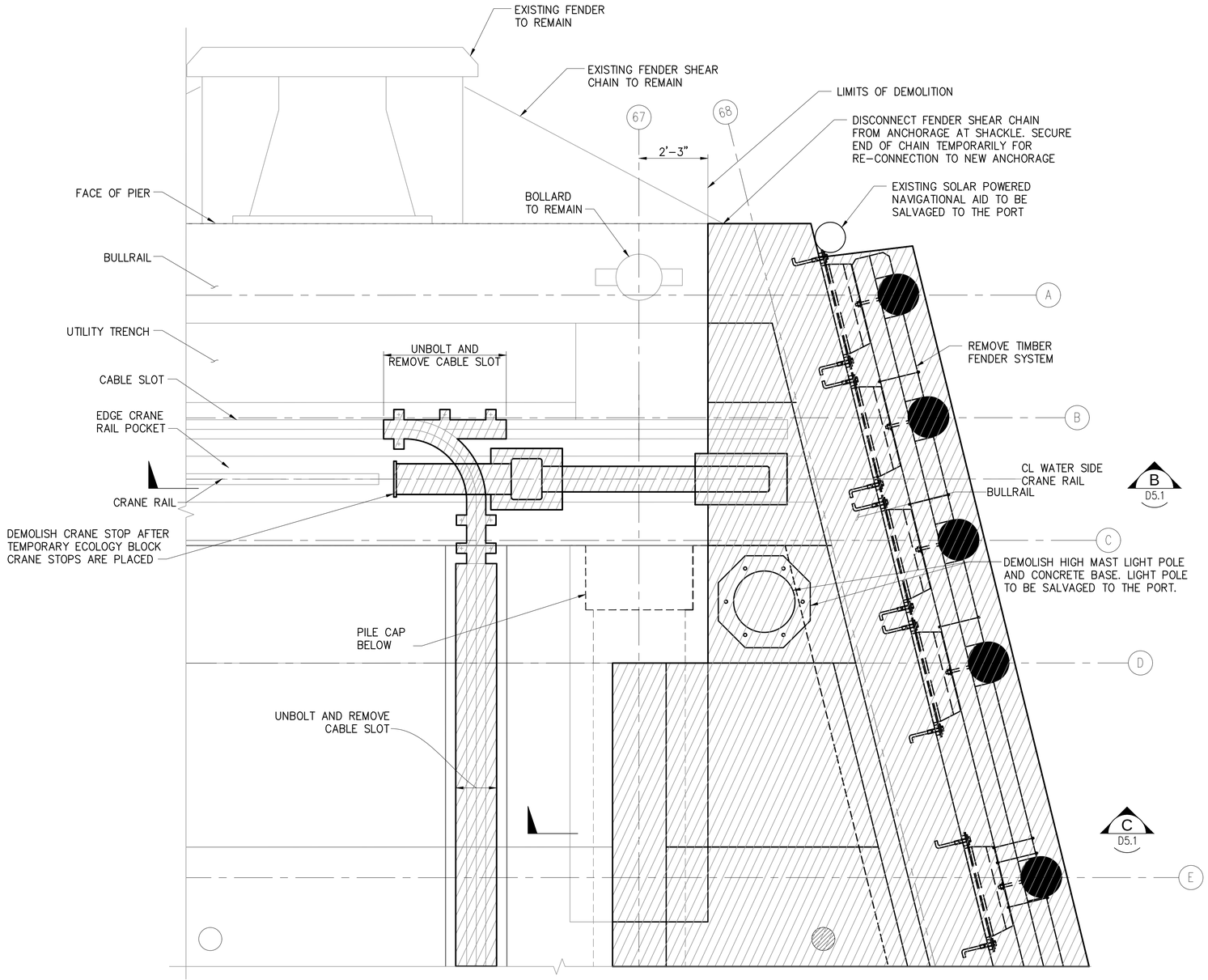
CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912.51	DAT–HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
D3.2
SH 28 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D3.2

BINDING EDGE



1 D3.1 **PIER DECK DEMOLITION PLAN**

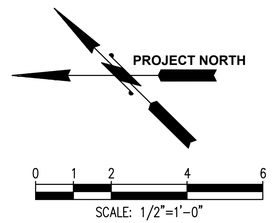
1/2" = 1'–0"

NOTES

1. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. SEE D1.1–D1.3 FOR ASPHALT PAVING AND BALLAST DEMOLITION AND REMOVAL EVENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.
5. CONTRACTOR SHALL NOT DAMAGE THE TEMPORARILY REMAINING CANTILEVERED PORTION OF THE WHARF STRUCTURE DURING DEMOLITION AND CONSTRUCTION OF THE PILE CAP BEAM ALONG THE FACE OF THE EXISTING PIER. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PORT.

LEGEND:

- (XX) BENT NUMBER, ROW NUMBER
- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- OUTLINE OF PILE CAP TO BE DEMOLISHED
- OUTLINE OF PILE CAP TO REMAIN
- TIMBER FENDER PILE
- DECK DRAIN
- SUBSURFACE DRAIN



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY	SEK	DATE	
DRAWN BY	TAH	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401–1837		

PIER 4 PHASE 2 RECONFIGURATION

PIER DECK DEMOLITION PLAN - SHEET 3

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT–HRZ:	VERT:		
PARCEL:	DRAWING SCALE:	AS NOTED	

6552

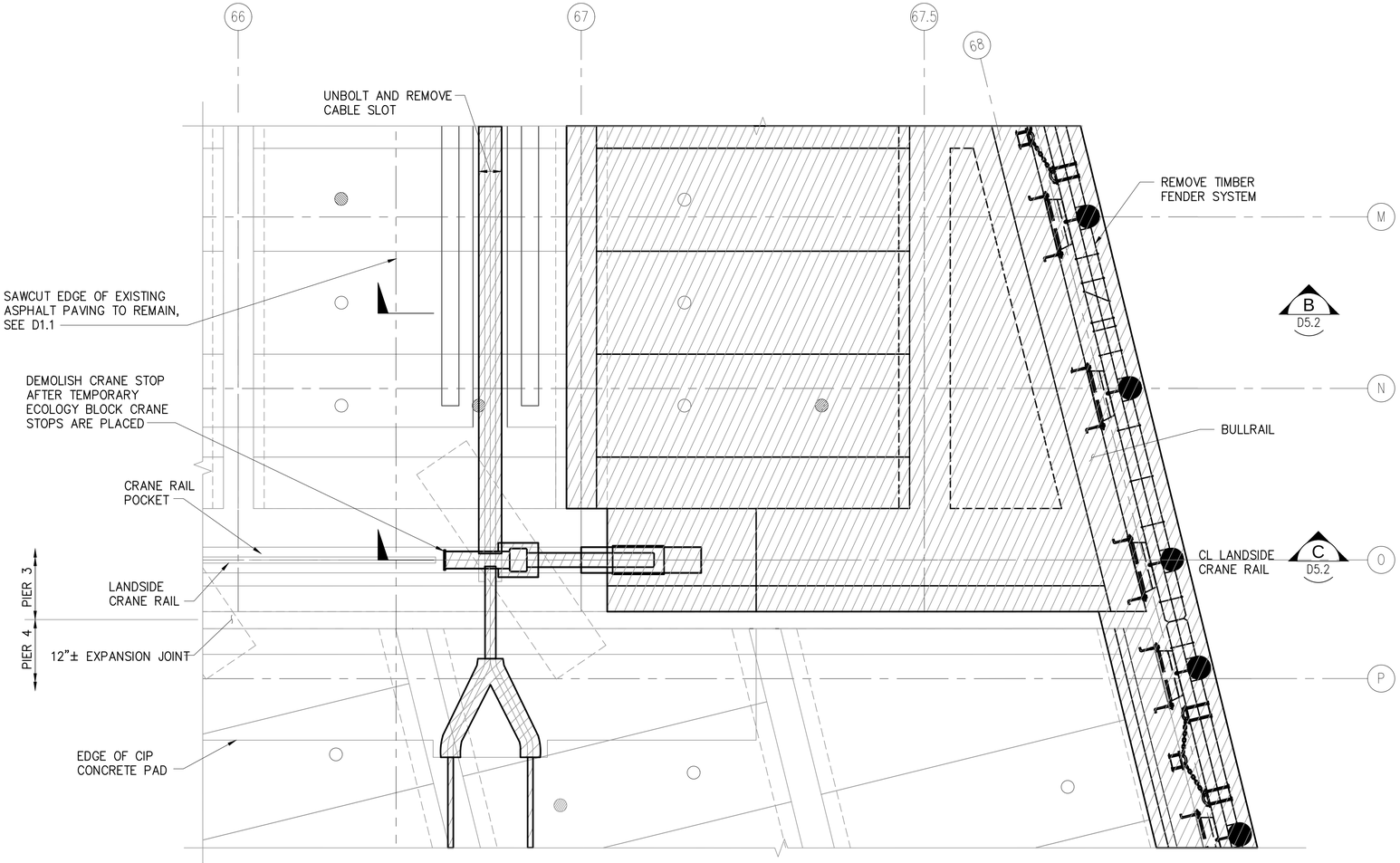
D3.3

SH 29 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D3.3



1 D3.1 **PIER DECK DEMOLITION PLAN**

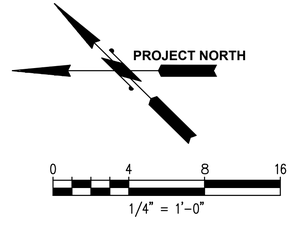
1/4" = 1'-0"

NOTES

1. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. SEE D1.1–D1.3 FOR ASPHALT PAVING AND BALLAST DEMOLITION AND REMOVAL EVENTS.
3. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
4. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.
5. CONTRACTOR SHALL NOT DAMAGE THE TEMPORARILY REMAINING CANTILEVERED PORTION OF THE WHARF STRUCTURE DURING DEMOLITION AND CONSTRUCTION OF THE PILE CAP BEAM ALONG THE FACE OF THE EXISTING PIER. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PORT.

LEGEND:

- XX — BENT NUMBER, ROW NUMBER
- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- OUTLINE OF PILE CAP TO BE DEMOLISHED
- OUTLINE OF PILE CAP TO REMAIN
- TIMBER FENDER PILE
- DECK DRAIN
- SUBSURFACE DRAIN



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
PIER DECK DEMOLITION PLAN - SHEET 4

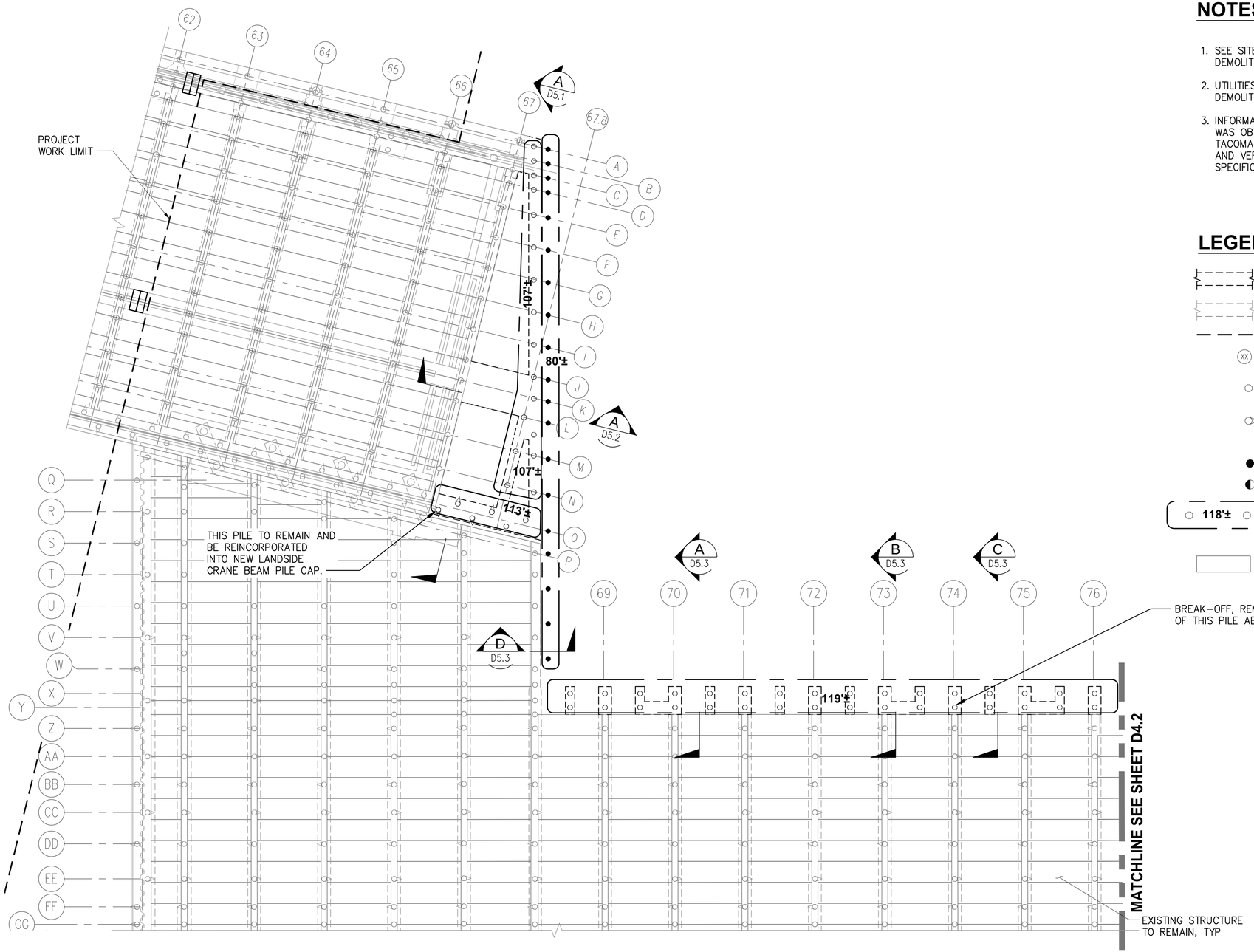
6552
D3.4
SH 30 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D3.4



PIER PILE CAP DEMOLITION AND PILE EXTRACTION PLAN

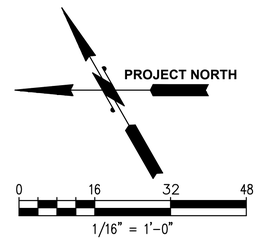
1/16" = 1'-0"

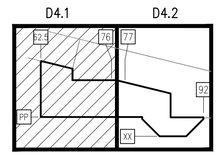
NOTES

1. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
3. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.

LEGEND:

- OUTLINE OF PILE CAP TO BE DEMOLISHED
- OUTLINE OF PILE CAP TO REMAIN
- PROJECT WORK AREA LIMITS
- (XX) BENT NUMBER, ROW NUMBER
- 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – PLUMB
- 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – BATTER
- TIMBER FENDER PILE
- STEEL FENDER PILE
- 118'± APPROX LENGTH OF PILES TO BE EXTRACTED
- DECK PANEL





KEYMAP

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-D4.1

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

	SEK	CHECKED BY	DATE
	TAH	PROJ. ENGR	DATE
DIRECTOR ENG.	DATE		

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

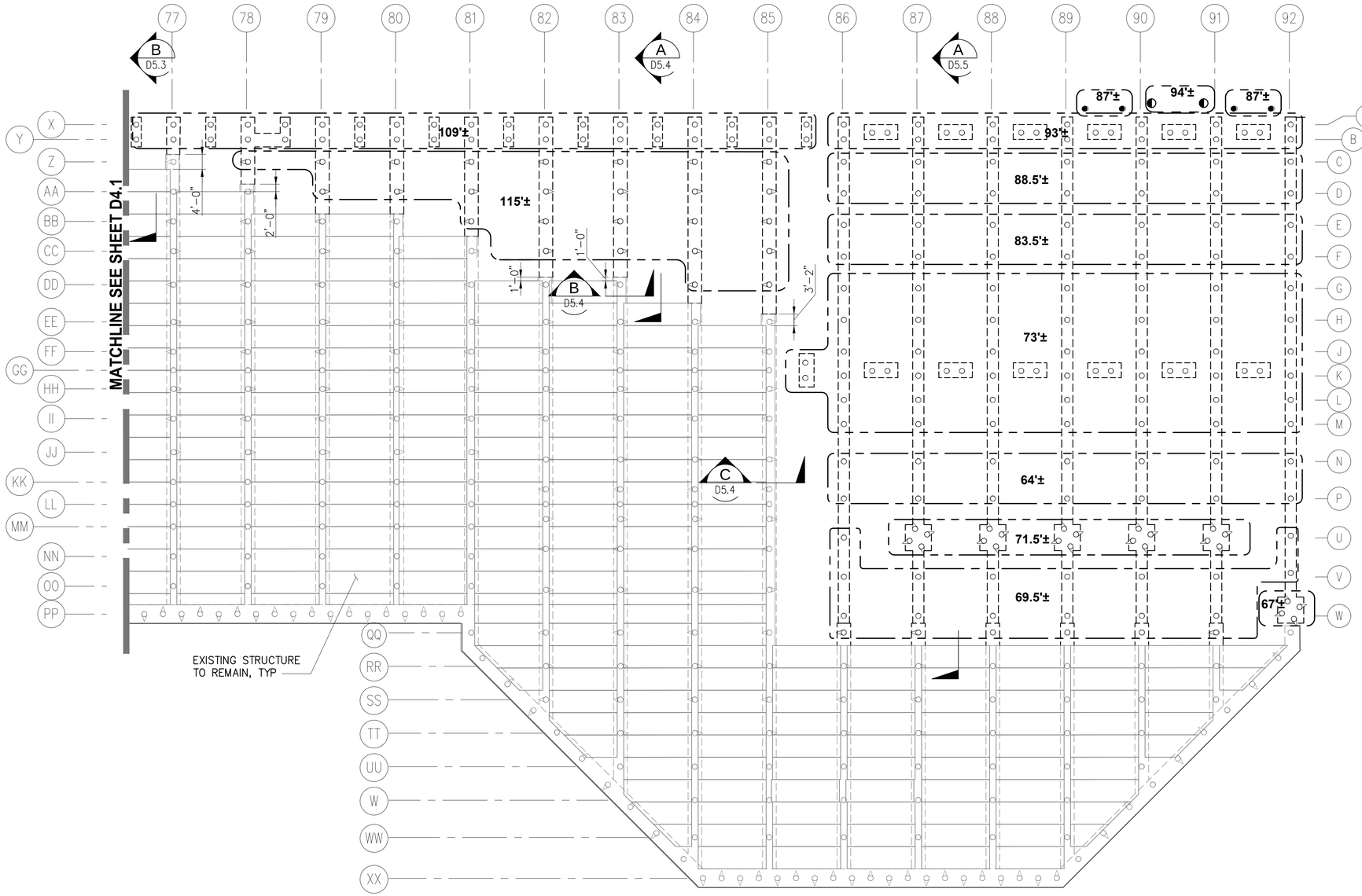
PIER PILE CAP DEMOLITION AND PILE EXTRACTION PLAN - SHEET 1

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ:	VERT:
PHASE:	CONFORMED	PARCEL:	

SECTION: 27
DRAWING SCALE: AS NOTED

6552
D4.1
SH 31 OF 499

BINDING EDGE



PIER PILE CAP DEMOLITION AND PILE EXTRACTION PLAN

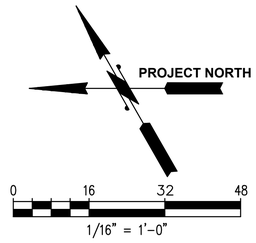
1/16" = 1'-0"

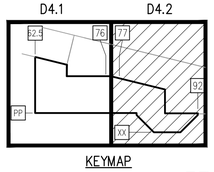
NOTES

1. SEE SITE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL DEMOLITION REQUIREMENTS.
2. UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
3. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.
4. SEE SHEET D1.2 FOR ADDITIONAL CONCRETE BATTER PILES TO BE EXTRACTED IN FRONT OF THE EXISTING SUBSTATION AND FOR ADDITIONAL TIMBER PILES TO BE EXTRACTED FROM THE PHASE 1 DREDGE SLOPE.

LEGEND:

- OUTLINE OF PILE CAP TO BE DEMOLISHED
- OUTLINE OF PILE CAP TO REMAIN
- PROJECT WORK AREA LIMITS
- (xx) BENT NUMBER, ROW NUMBER
- 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – PLUMB
- 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – BATTER
- TIMBER FENDER PILE
- STEEL FENDER PILE
- 118'± APPROX LENGTH OF PILES TO BE EXTRACTED
- DECK PANEL





KEYMAP

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE	CHECKED BY SEK DATE
PRINTED BY: tlemons Jul 20, 2018	DRAWN BY TAH
PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

PIER PILE CAP DEMOLITION AND PILE EXTRACTION PLAN - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:		

6552

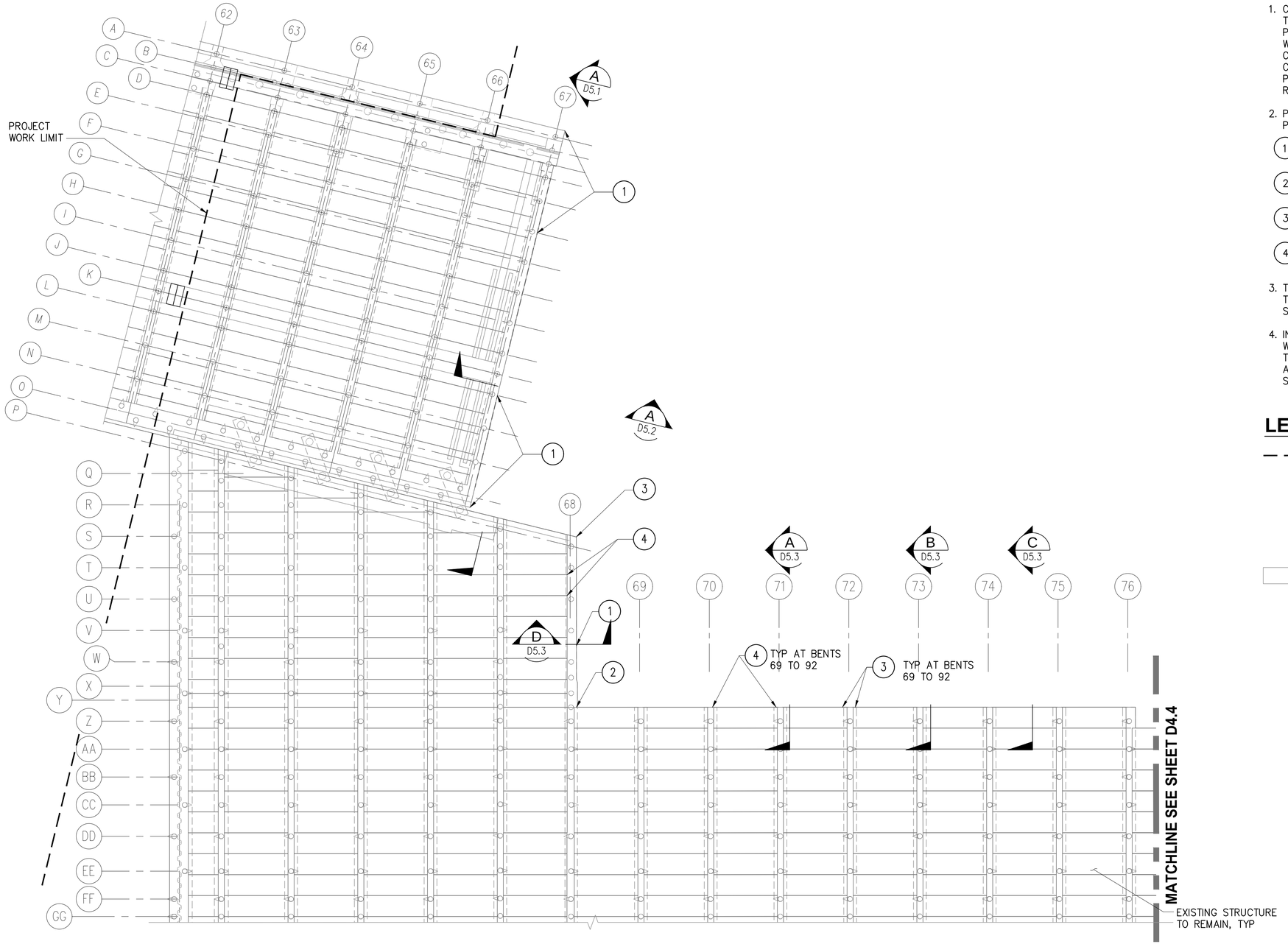
D4.2

SH 32 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D4.2

BINDING EDGE



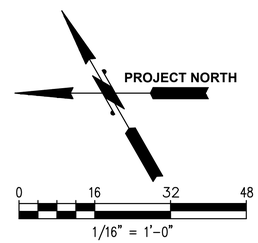
NOTES

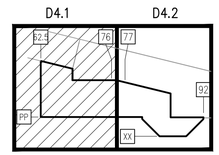
1. CONTRACTOR SHALL PROVIDE A POST DEMOLITION SURVEY TO THE PORT FOR CONFIRMATION OF THE LOCATIONS OF EXPOSED PORTIONS OF ALL EXISTING PILE CAPS AND DECK PANELS WHICH ARE TO BE INCORPORATED INTO THE FINAL CONSTRUCTION. THE SURVEY SHALL BE PERFORMED AFTER COMPLETION OF ALL DEMOLITION, INCLUDING DECK DEMOLITION, PILE EXTRACTION, AND SELECT DEMOLITION TO EXPOSE EXISTING REINFORCING.
2. POST DEMOLITION SURVEY SHALL INCLUDE THE EXPOSED PORTIONS OF THE FOLLOWING ELEMENTS:
   - (1) TOP EDGE OF EXISTING PILE CAPS AT A SPACING OF NO MORE THAN 30 FEET OC ALONG THEIR LENGTH.
   - (2) TOP EDGES OF EXISTING PILE CAPS AT INTERSECTIONS WITH EXISTING DECK PANELS.
   - (3) TOP CORNERS AT EXPOSED END OF EXISTING PILE CAPS AFTER COMPLETION OF SELECT DEMO.
   - (4) TOP CORNERS AT EXPOSED END OR EDGE OF EACH DECK PANEL.
3. THE CONTRACTOR SHALL COORDINATE THE PERFORMANCE OF THE POST DEMOLITION SURVEY WITH THE PORT. THE ENGINEER SHALL BE PRESENT DURING THE SURVEY WORK.
4. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.

LEGEND:

- PROJECT WORK AREA LIMITS
- (XX) BENT NUMBER, ROW NUMBER
- 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – PLUMB
- 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – BATTER
- DECK PANEL

PIER PLAN AT END OF DEMOLITION
1/16" = 1'-0"





KEYMAP

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE	SEK CHECKED BY DATE		
PRINTED BY: tlemons Jul 20, 2018	TAH PROJ. ENGR DATE		
PORT ADDRESS:ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

PIER 4 PHASE 2 RECONFIGURATION
PIER PLAN AT END OF DEMOLITION - SHEET 1

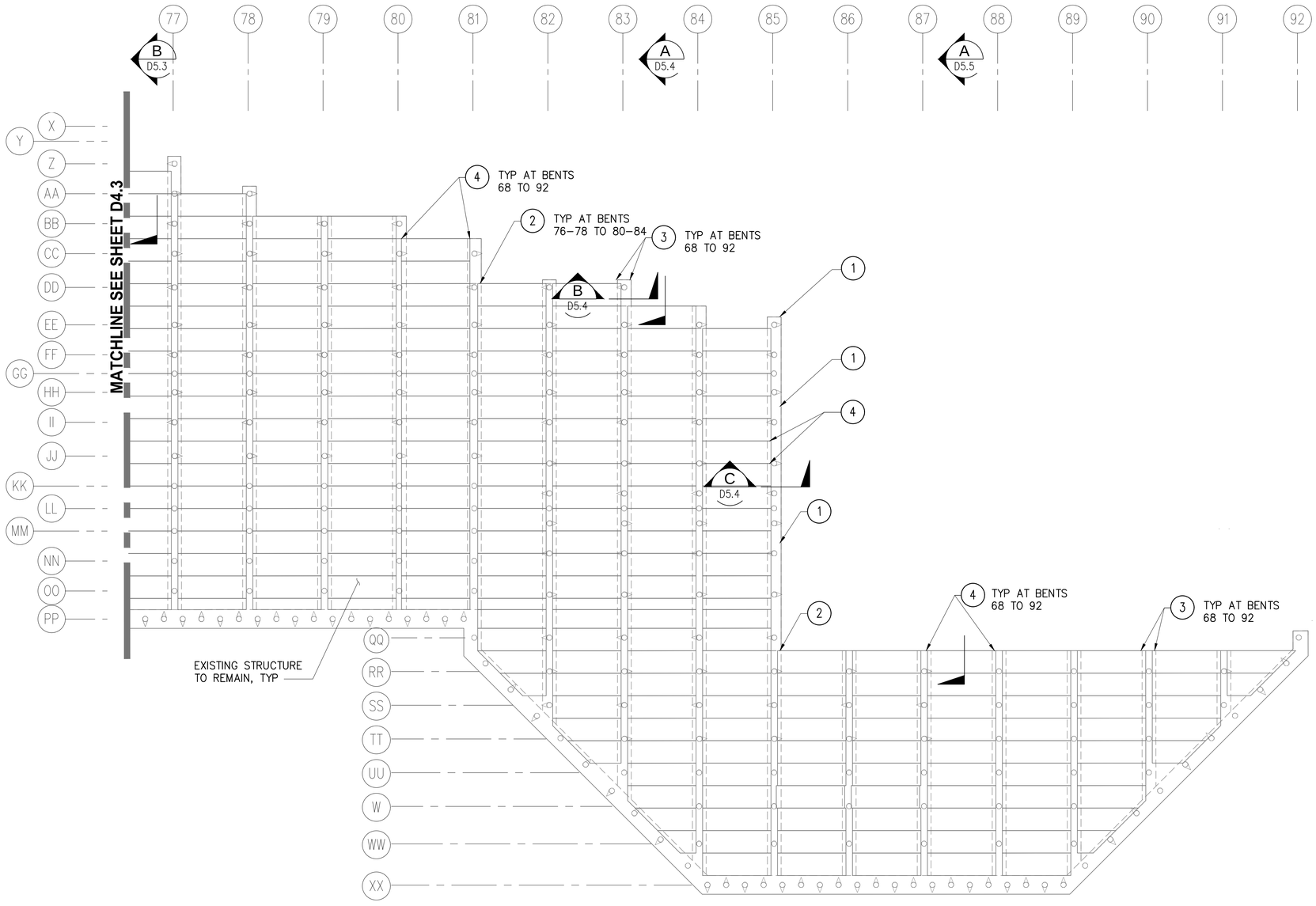
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ:	VERT:	DRAWING SCALE: AS NOTED	
PARCEL:			

6552
D4.3
SH 33 OF 499

CONT/CONS: 070136	
M. ID: 091251	
PHASE: CONFORMED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D4.3



PIER PLAN AT END OF DEMOLITION

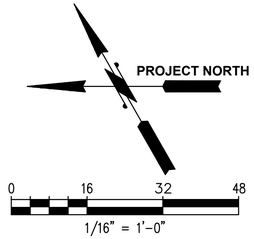
1/16" = 1'–0"

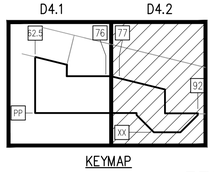
NOTES

1. CONTRACTOR SHALL PROVIDE A POST DEMOLITION SURVEY TO THE PORT FOR CONFIRMATION OF THE LOCATIONS OF EXPOSED PORTIONS OF ALL EXISTING PILE CAPS AND DECK PANELS WHICH ARE TO BE INCORPORATED INTO THE FINAL CONSTRUCTION. THE SURVEY SHALL BE PERFORMED AFTER COMPLETION OF ALL DEMOLITION, INCLUDING DECK DEMOLITION, PILE EXTRACTION, AND SELECT DEMOLITION TO EXPOSE EXISTING REINFORCING.
2. POST DEMOLITION SURVEY SHALL INCLUDE THE EXPOSED PORTIONS OF THE FOLLOWING ELEMENTS:
   - (1) TOP EDGE OF EXISTING PILE CAPS AT A SPACING OF NO MORE THAN 30 FEET OC ALONG THEIR LENGTH.
   - (2) TOP EDGES OF EXISTING PILE CAPS AT INTERSECTIONS WITH EXISTING DECK PANELS.
   - (3) TOP CORNERS AT EXPOSED END OF EXISTING PILE CAPS AFTER COMPLETION OF SELECT DEMO.
   - (4) TOP CORNERS AT EXPOSED END OR EDGE OF EACH DECK PANEL.
3. THE CONTRACTOR SHALL COORDINATE THE PERFORMANCE OF THE POST DEMOLITION SURVEY WITH THE PORT. THE ENGINEER SHALL BE PRESENT DURING THE SURVEY WORK.
4. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL REVIEW REFERENCE DRAWINGS AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD, SEE SPECIFICATIONS.

LEGEND:

- PROJECT WORK AREA LIMITS
- (XX) BENT NUMBER, ROW NUMBER
- ○ 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – PLUMB
- ○ 16 1/2" SOLID OCTAGONAL PRECAST CONCRETE PILE – BATTER
- DECK PANEL





KEYMAP

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

APPROVED:

DIRECTOR ENG. DATE	SEK CHECKED BY DATE		
PRINTED BY: tiemons Jul 20, 2018	TAH PROJ. ENGR DATE		
PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401–1837	DRAWING SCALE: AS NOTED		

PIER 4 PHASE 2 RECONFIGURATION
PIER PLAN AT END OF DEMOLITION - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:		

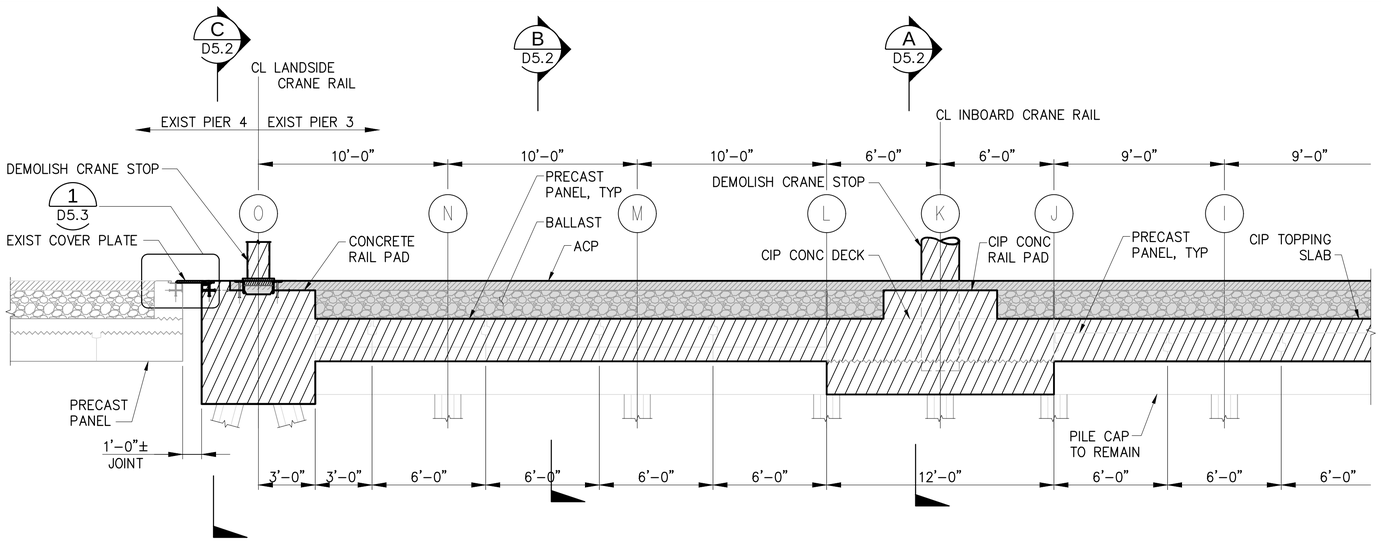
6552
D4.4
SH 34 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

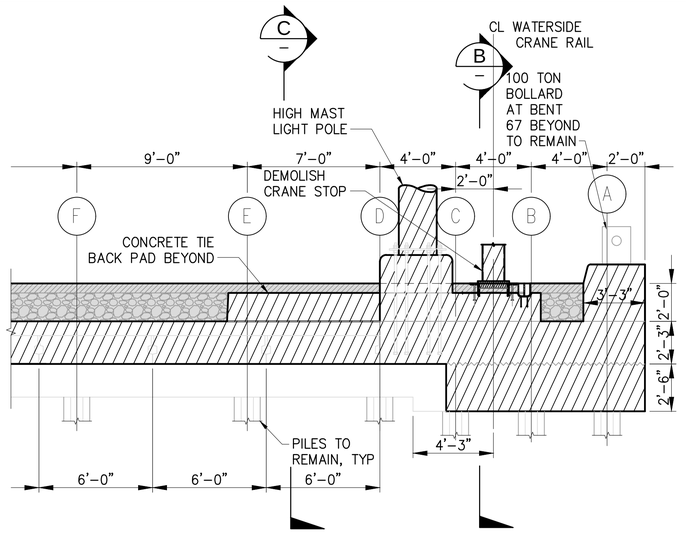
PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D4.4

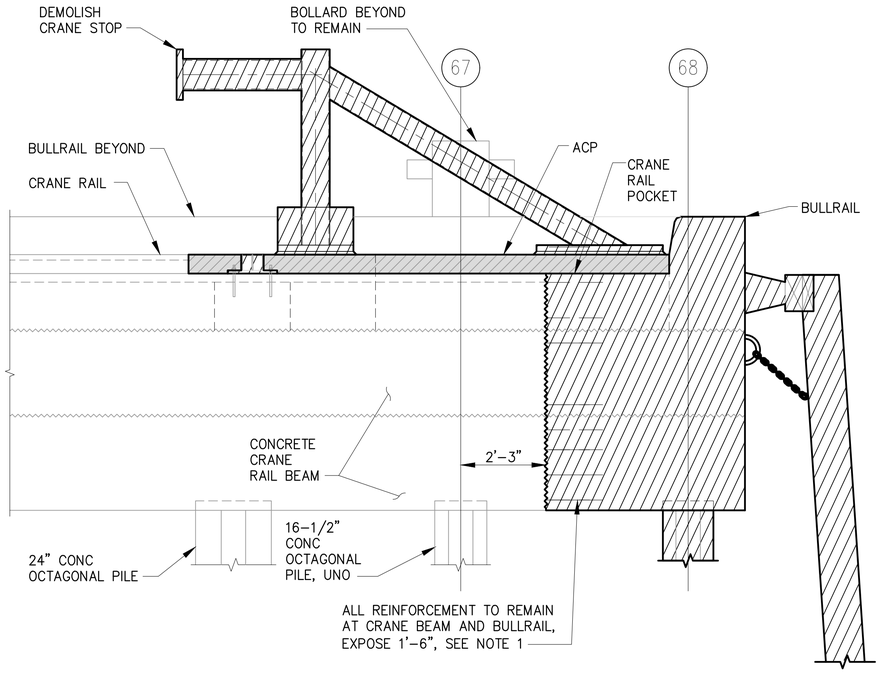
BINDING EDGE



DEMO SECTION AT BENT 67

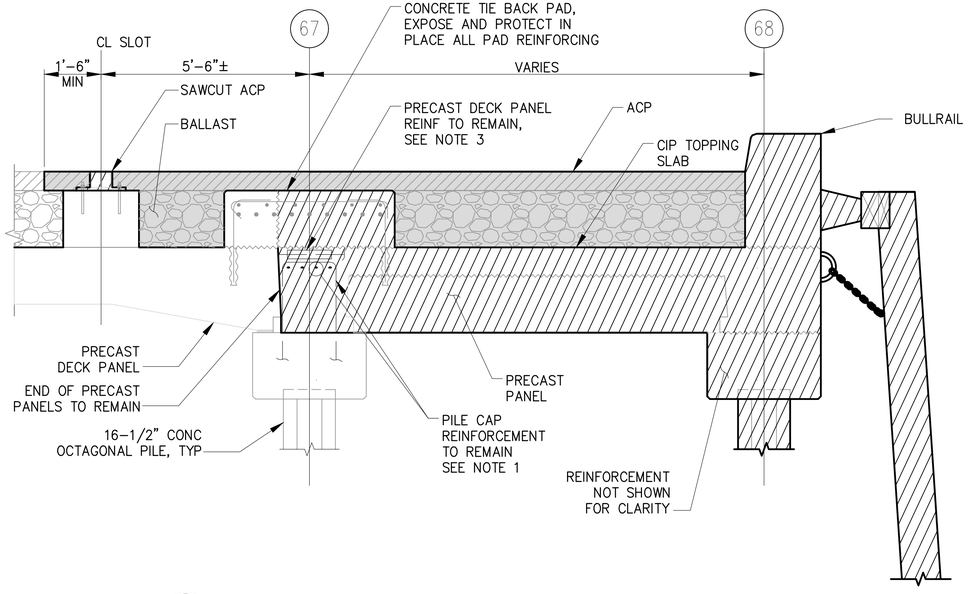
A / D3.1, D4.1 — 1/4" = 1'-0"





DEMO SECTION AT WATERSIDE CRANE RAIL

B / D3.3 — 1/2" = 1'-0"



DEMO SECTION

C / D3.3 — 1/2"=1'-0"

NOTES:

1. ALL REINFORCEMENT TO REMAIN SHALL NOT BE DEFORMED OR DAMAGED. SELECT DEMOLITION AT REINFORCEMENT TO REMAIN SHALL BE PERFORMED TO PROTECT REINFORCEMENT.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD.
3. DO NOT DAMAGE OR CUT DECK PANEL REINFORCING. CAREFULLY GRIND SPLICE ANGLE FREE FROM PROJECTING DECK PANEL REINFORCING

LEGEND:

- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- DEMOLISH AND REMOVE EXISTING ACP AND BALLAST
- ACP
- BALLAST

0 1 2 4 6
SCALE: 1/2"=1'-0"

0 4 8 12
SCALE: 1/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 3961150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
		SEK	
PROJ. ENGR	DATE		
TAH			

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

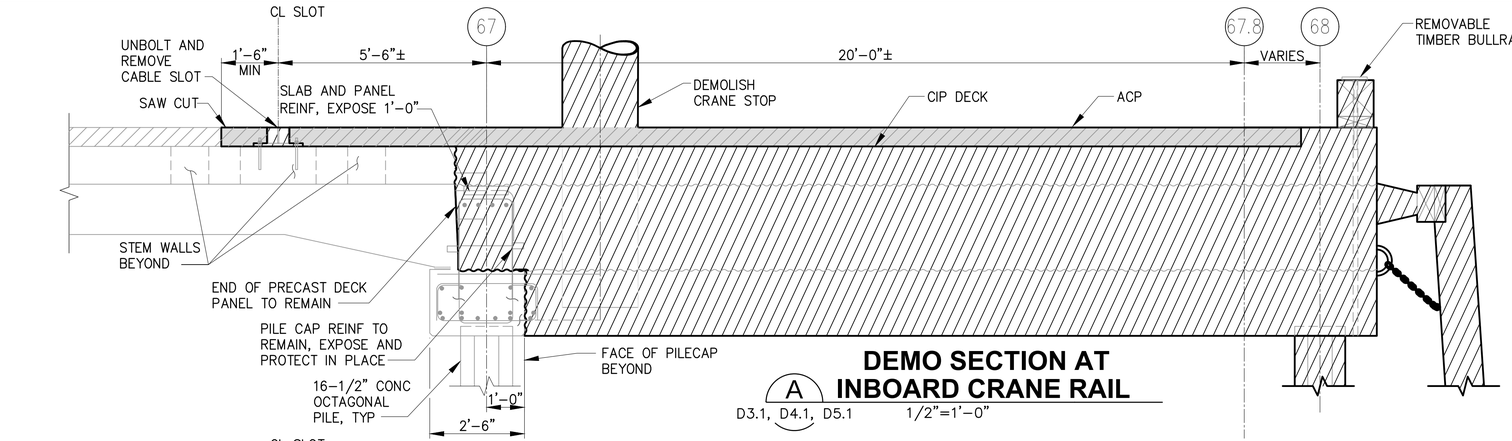
PIER 4 PHASE 2 RECONFIGURATION
PIER DEMOLITION SECTIONS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

6552
D5.1
SH 35 OF 499

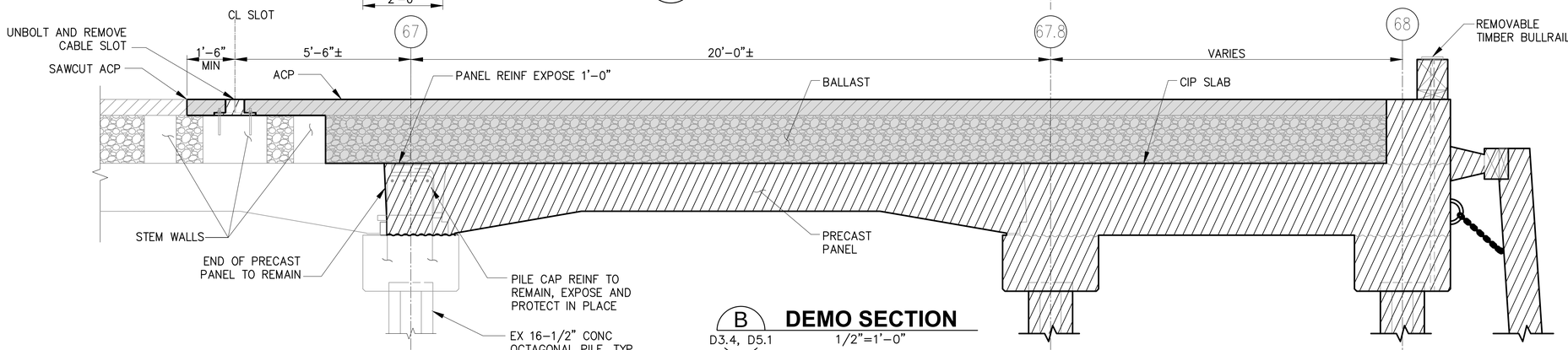
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D5.1



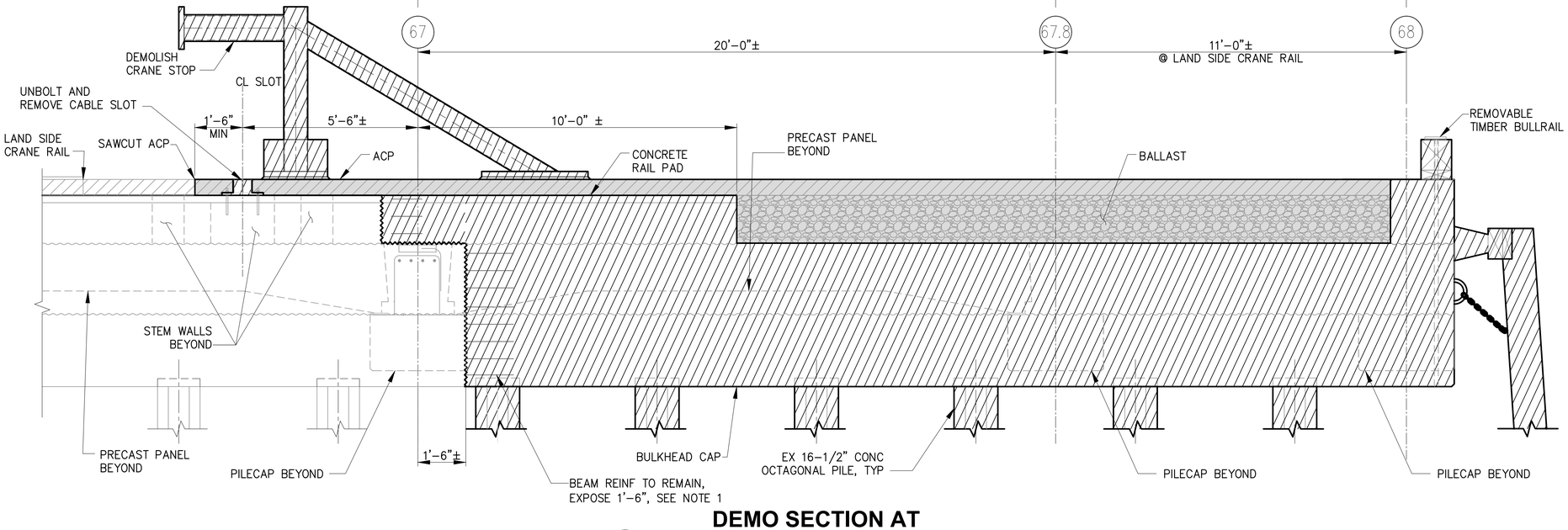
A DEMO SECTION AT INBOARD CRANE RAIL

D3.1, D4.1, D5.1 1/2"=1'-0"



B DEMO SECTION

D3.4, D5.1 1/2"=1'-0"



C DEMO SECTION AT LANDSIDE CRANE BEAM

D3.4, D5.1 1/2"=1'-0"

NOTES:

1. ALL REINFORCEMENT TO REMAIN SHALL NOT BE DEFORMED OR DAMAGED. SELECT DEMOLITION AT REINFORCEMENT TO REMAIN SHALL BE PERFORMED TO PROTECT REINFORCEMENT.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD.

LEGEND:

- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- DEMOLISH AND REMOVE EXISTING ACP AND BALLAST
- ACP
- BALLAST

0 1 2 4 6

SCALE: 1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D5.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

	SEK	CHECKED BY	DATE
	TAH	PROJ. ENGR	DATE
DIRECTOR ENG.	DATE		

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
PIER DEMOLITION SECTIONS - SHEET 2

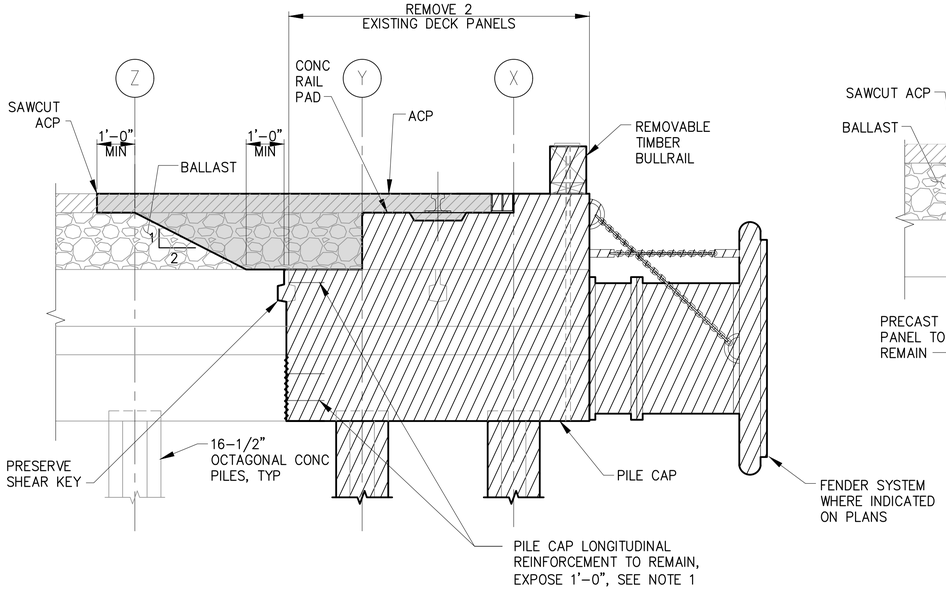
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
D5.2
SH 36 OF 499

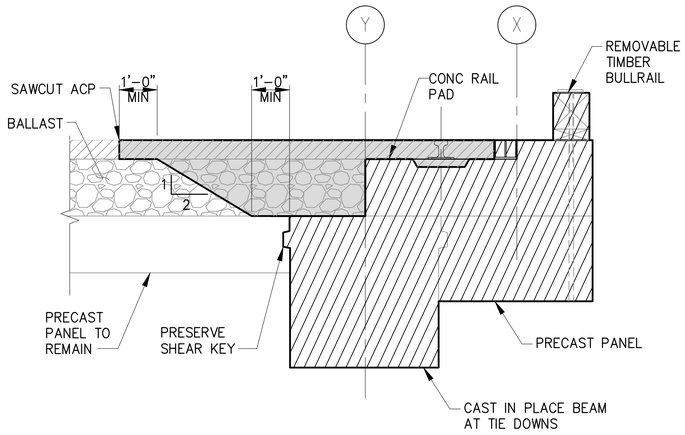
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



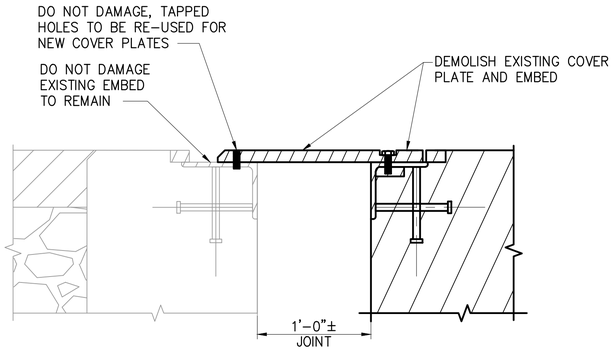
A DEMO SECTION AT PILE CAP

D3.1, D4.1 1/2"=1'–0"



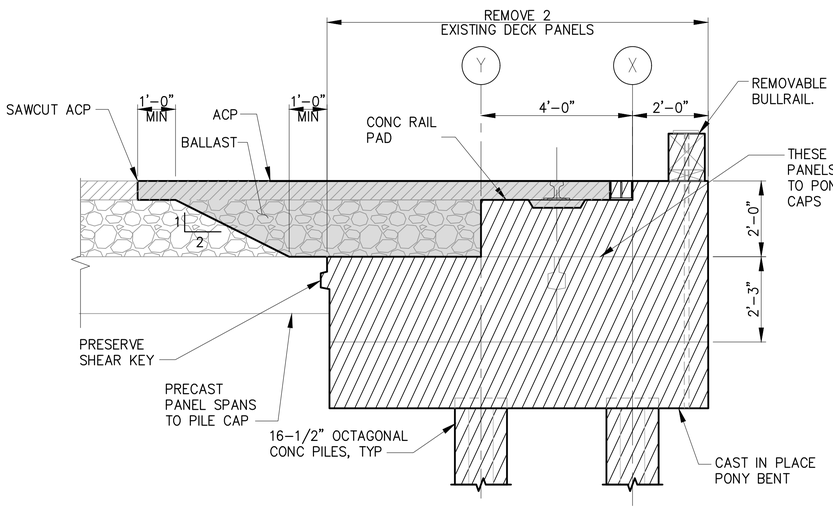
B DEMO SECTION AT TIE DOWN

D3.1, D3.2, D4.1, D4.2 1/2"=1'–0"



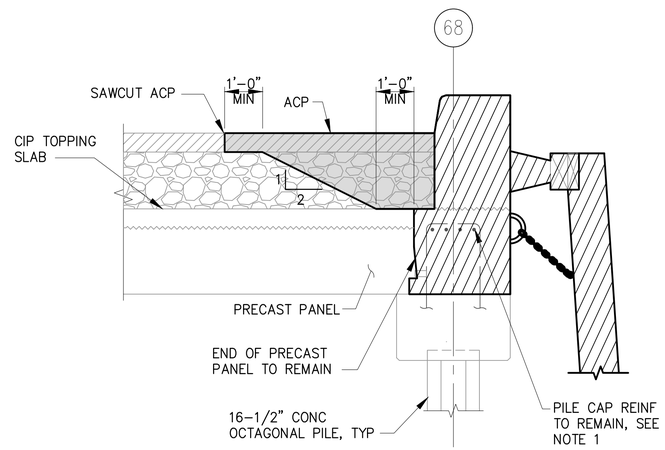
1 DEMO DETAIL @ EXISTING PIER 3-4 JOINT

D5.1 1–1/2"=1'–0"



C DEMO SECTION AT PONY BENT

D3.1, D4.1 1/2"=1'–0"



D DEMO SECTION AT BENT 68

D3.1, D4.1 1/2"=1'–0"

NOTES:

1. ALL REINFORCEMENT TO REMAIN SHALL NOT BE DEFORMED OR DAMAGED. SELECT DEMOLITION AT REINFORCEMENT TO REMAIN SHALL BE PERFORMED TO PROTECT REINFORCEMENT.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD.

LEGEND:

- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- DEMOLISH AND REMOVE EXISTING ACP AND BALLAST
- ACP
- BALLAST

0 1 2 4 6
SCALE: 1/2"=1'–0"

0 1 2
SCALE: 1 1/2"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
PIER DEMOLITION SECTIONS - SHEET 3

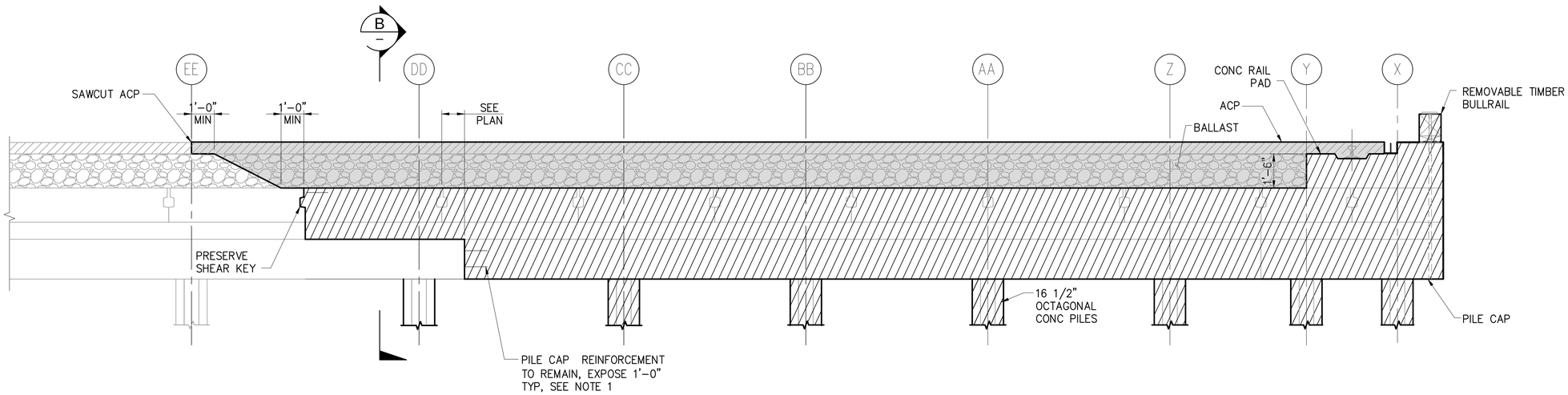
6552
D5.3
SH 37 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D5.3



A DEMO SECTION AT BENT 83

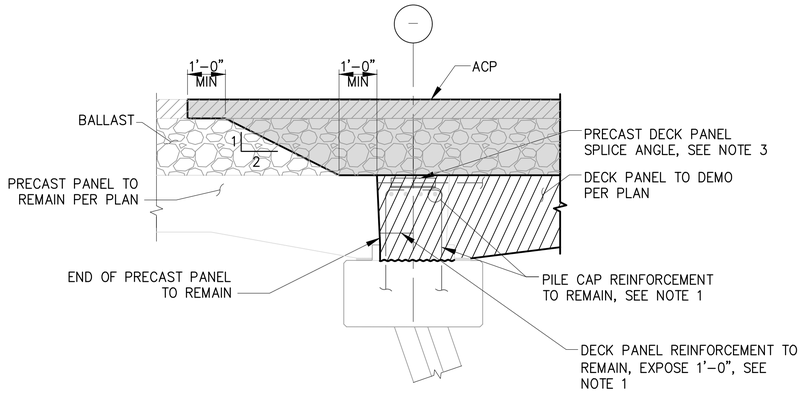
D3.2, D4.2 3/8"=1'-0"

NOTES:

1. ALL REINFORCEMENT TO REMAIN SHALL NOT BE DEFORMED OR DAMAGED. SELECT DEMOLITION AT REINFORCEMENT TO REMAIN SHALL BE PERFORMED TO PROTECT REINFORCEMENT.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD.
3. DO NOT DAMAGE OR CUT DECK PANEL REINFORCING. CAREFULLY GRIND SPLICE ANGLE FREE FROM PROJECTING DECK PANEL REINFORCING

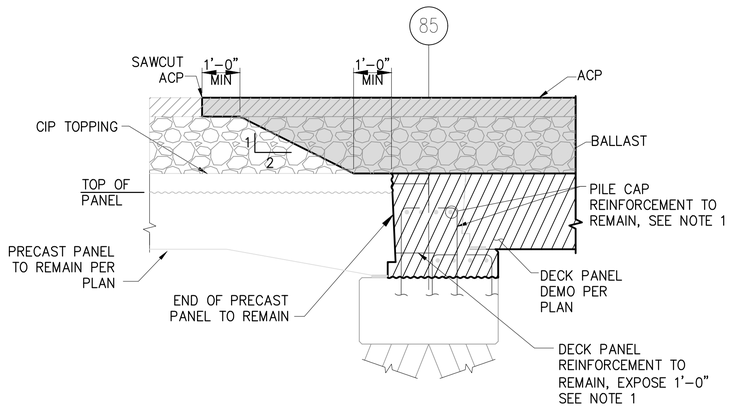
LEGEND:

- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- DEMOLISH AND REMOVE EXISTING ACP AND BALLAST
- ACP
- BALLAST



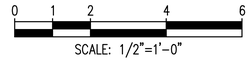
B TYPICAL PILE CAP DEMO SECTION AT BENTS 69 TO 84

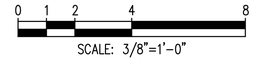
D3.2, D4.2 1/2"=1'-0"



C PILE CAP DEMO SECTION AT BENT 85

D3.2, D4.2 1/2"=1'-0"





RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE		CHECKED BY	SEK DATE
PRINTED BY: tlemons Jul 20, 2018	PROJ. ENGR		TAH DATE
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED		

PIER 4 PHASE 2
RECONFIGURATION
PIER DEMOLITION SECTIONS - SHEET 4

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

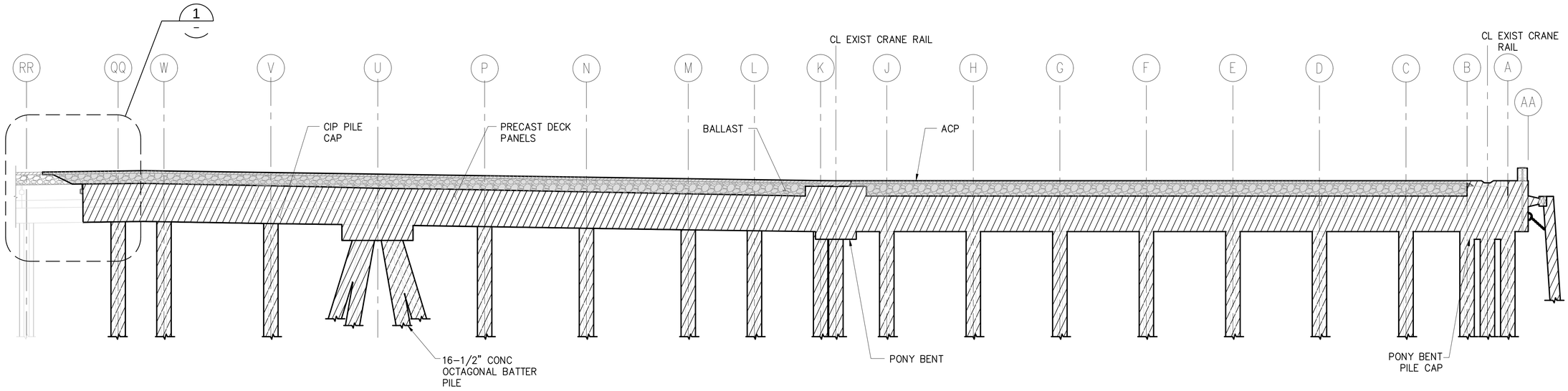
6552
D5.4
SH 38 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D5.4

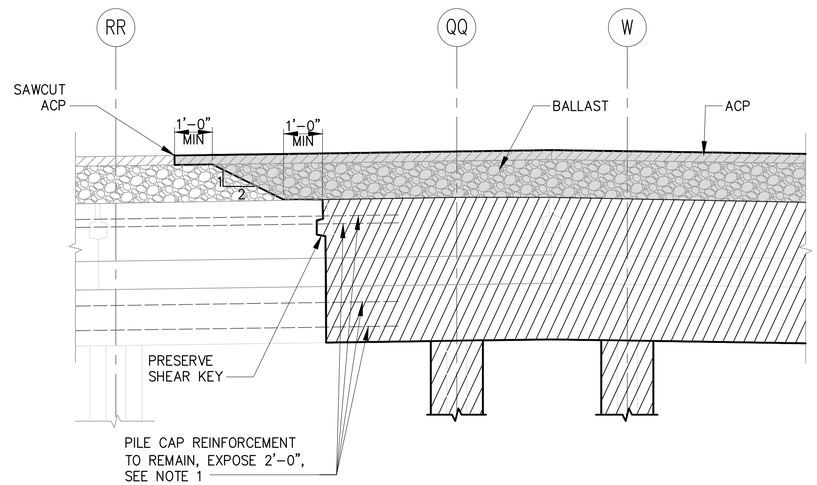
BINDING EDGE



PIER DEMOLITON SECTION
BENTS 86 TO 92

A
D3.2, D4.2

3/16" = 1'–0"



1
–

DEMO DETAIL

1/2"=1'–0"

NOTES:

1. ALL REINFORCEMENT TO REMAIN SHALL NOT BE DEFORMED OR DAMAGED. SELECT DEMOLITION AT REINFORCEMENT TO REMAIN SHALL BE PERFORMED TO PROTECT REINFORCEMENT.
2. INFORMATION REGARDING EXISTING CONDITIONS DEPICTED HEREIN WAS OBTAINED FROM RECORD DRAWINGS PROVIDED BY PORT OF TACOMA. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD.

LEGEND:

- DEMOLISH AND REMOVE EXISTING STRUCTURE AND APPURTENANCES
- DEMOLISH AND REMOVE EXISTING ACP AND BALLAST
- ACP
- BALLAST

0 1 2 4 6
SCALE: 1/2"=1'–0"

0 4 8 12 16
SCALE: 3/16"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

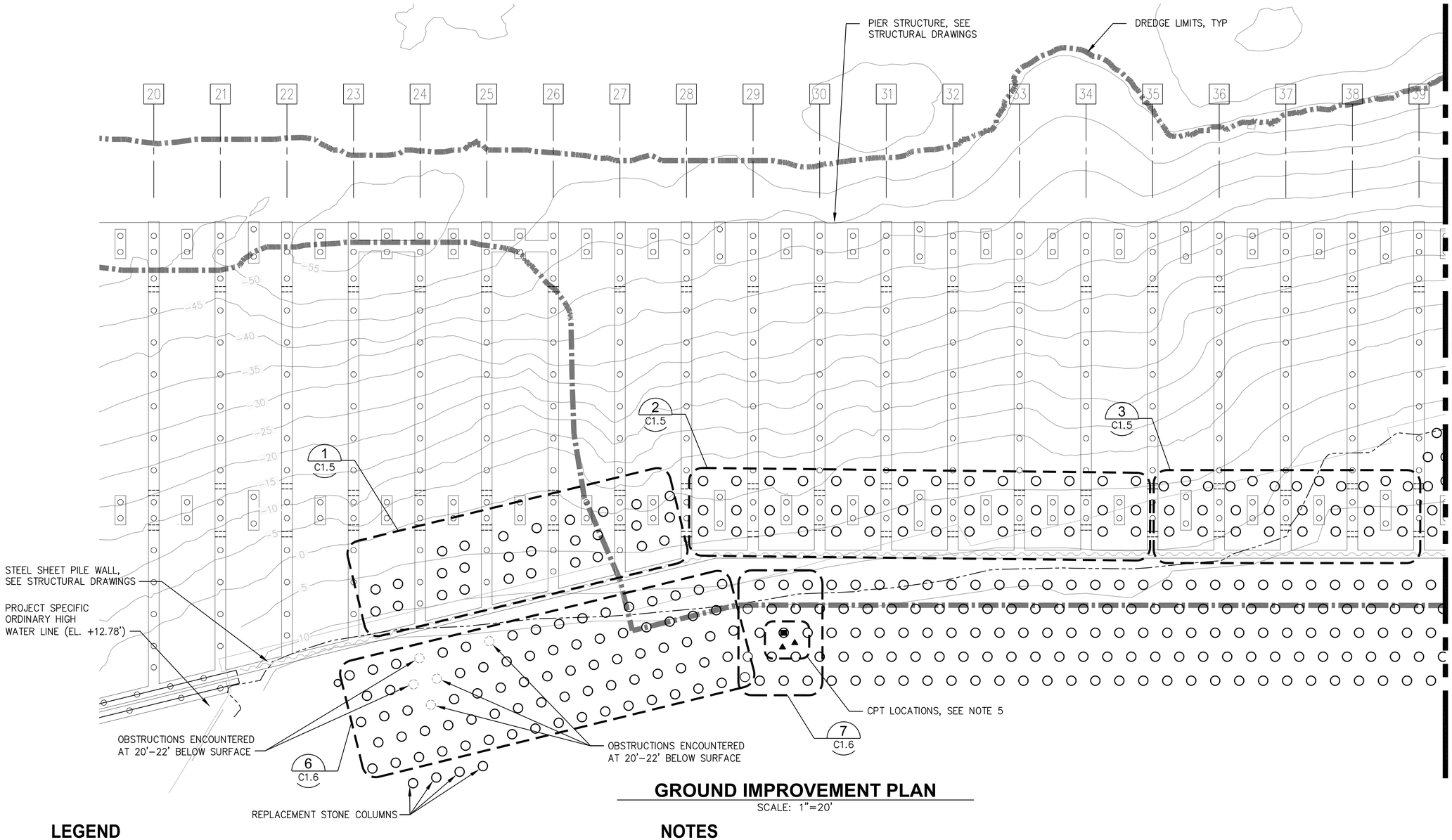
PIER 4 PHASE 2
REMOVAL ACTION PROJECT
PIER DEMOLITION SECTIONS - SHEET 5

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
D5.5
SH 39 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-D5.5



GROUND IMPROVEMENT PLAN

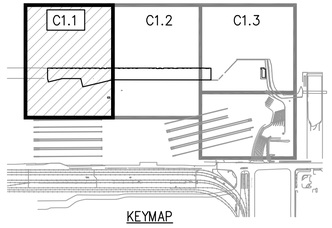
SCALE: 1"=20'

LEGEND

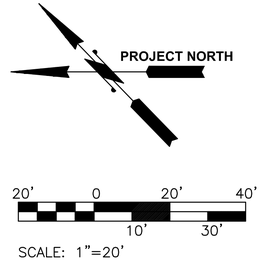
- DREDGE LIMITS, SEE DREDGE PLAN C2.1
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- 3.5'ø STONE COLUMNS INSTALLED PRIOR TO DREDGE CUTBACK
- 71 — PIER BENTS, SEE STRUCTURAL DRAWINGS
- ■ — INDICATES LOCATION OF PRE–IMPROVEMENT CPT. PRE–IMPROVEMENT CPTS SHALL BE ADVANCED BEFORE STARTING ANY STONE COLUMN INSTALLATION.
- ▲ — INDICATES LOCATION OF POST–IMPROMENT CPT. POST–IMPROVEMENT CPTS SHALL BE ADVANCED NO SOONER THAN 14 DAYS AFTER COMPLETION OF ALL STONE COLUMN INSTALLATION.
- ABANDONED STONE COLUMN

NOTES

1. SEE SPECIFICATIONS FOR REQUIREMENTS ON SEQUENCING OF STONE COLUMN INSTALLATION WORK IN RELATION TO DREDGING AND SHEET PILE WALL INSTALLATION.
2. STONE COLUMNS INSTALLED WATERWARD OF OHWL SHALL BE INSTALLED DURING THE IN–WATER WORK SEASON.
3. STONE COLUMNS WATERSIDE OF STEEL SHEET PILE WALL SHALL NOT BE INSTALLED WHERE THEY DIRECTLY CONFLICT WITH PIER PILES, SEE STRUCTURAL PILE AND PILE CAP PLANS.
4. ALL UTILITY DEACTIVATION AND DEMOLITIONS WITHIN GROUND IMPROVEMENT AREA SHALL OCCUR PRIOR TO THE INSTALLATION OF STONE COLUMNS.
5. CONE PENETRATION TESTS (CPT) SHALL BE PERFORMED AT THE LOCATIONS SHOWN ON THE PLAN AND PER THE SPECIFICATIONS.



KEYMAP



SCALE: 1"=20'

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C1.1-C1.3 (Ground Improvement Plan)

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE
PRINTED BY: kvong Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

PIER 4 PHASE 2 RECONFIGURATION
GROUND IMPROVEMENT PLAN - SHEET 1

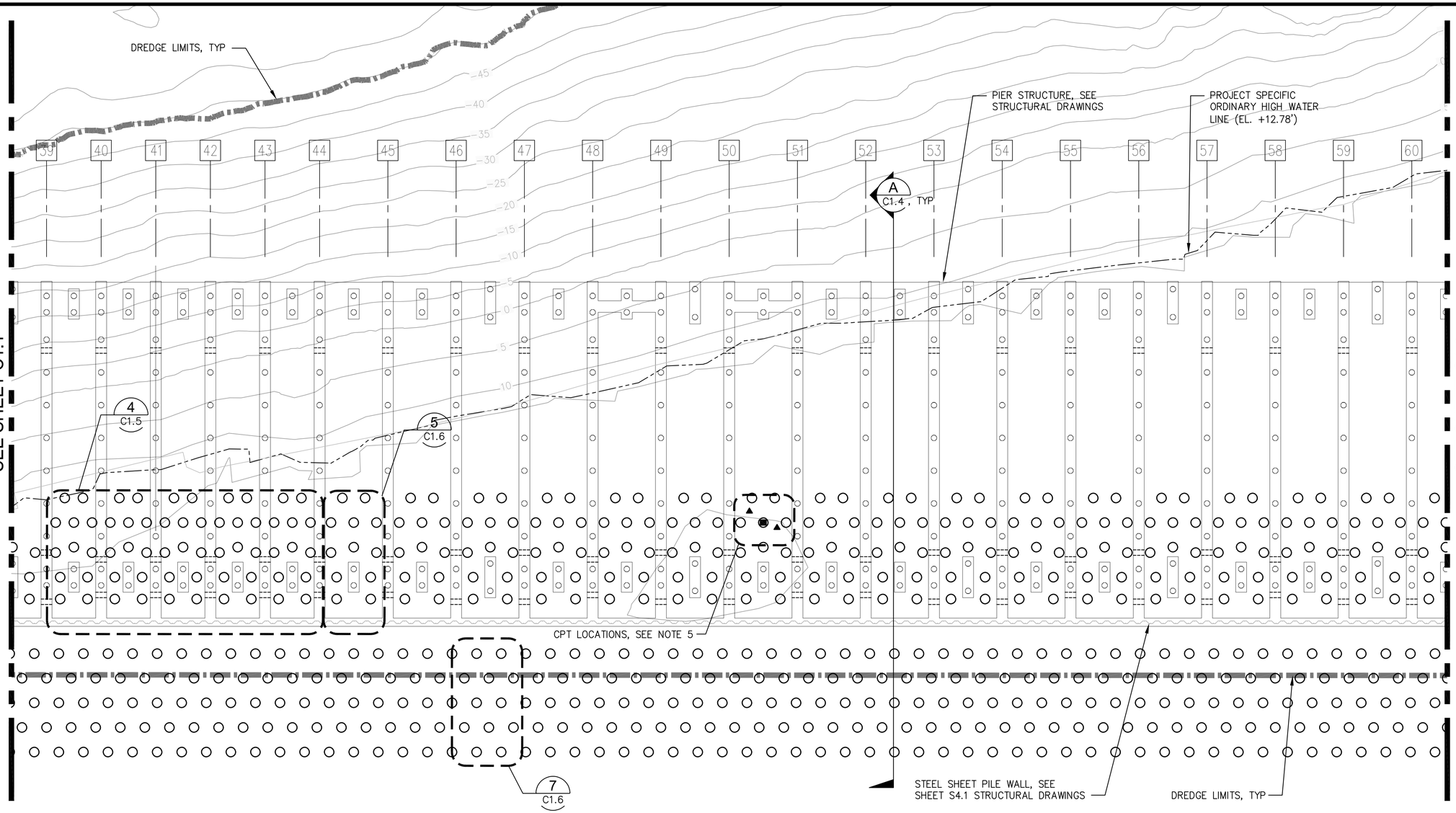
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ:	WA83–SF
PHASE:	CONFORMED	PARCEL:	

SECTION:
VERT: MLLW 19.39' @ Tide 22 1933
DRAWING SCALE: AS NOTED

6552
C1.1
SH 40 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



GROUND IMPROVEMENT PLAN

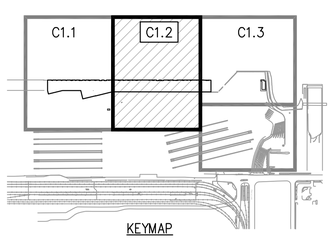
SCALE: 1"=20'

LEGEND

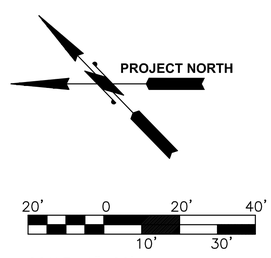
- DREDGE LIMITS, SEE DREDGE PLAN C2.1
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- 3.5'ø STONE COLUMNS INSTALLED PRIOR TO DREDGE CUTBACK
- 71 — PIER BENTS, SEE STRUCTURAL DRAWINGS
- ■ — INDICATES LOCATION OF PRE-IMPROVEMENT CPT. PRE-IMPROVEMENT CPTS SHALL BE ADVANCED BEFORE STARTING ANY STONE COLUMN INSTALLATION.
- ▲ — INDICATES LOCATION OF POST-IMPROMENT CPT. POST-IMPROVEMENT CPTS SHALL BE ADVANCED NO SOONER THAN 14 DAYS AFTER COMPLETION OF ALL STONE COLUMN INSTALLATION.

NOTES

1. SEE SPECIFICATIONS FOR REQUIREMENTS ON SEQUENCING OF STONE COLUMN INSTALLATION WORK IN RELATION TO DREDGING AND SHEET PILE WALL INSTALLATION.
2. STONE COLUMNS INSTALLED WATERWARD OF OHWL SHALL BE INSTALLED DURING THE IN-WATER WORK SEASON.
3. STONE COLUMNS WATERSIDE OF STEEL SHEET PILE WALL SHALL NOT BE INSTALLED WHERE THEY DIRECTLY CONFLICT WITH PIER PILES, SEE STRUCTURAL PILE AND PILE CAP PLANS.
4. ALL UTILITY DEACTIVATION AND DEMOLITIONS WITHIN GROUND IMPROVEMENT AREA SHALL OCCUR PRIOR TO THE INSTALLATION OF STONE COLUMNS.
5. CONE PENETRATION TESTS (CPT) SHALL BE PERFORMED AT THE LOCATIONS SHOWN ON THE PLAN AND PER THE SPECIFICATIONS.



KEYMAP



SCALE: 1"=20'

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
GROUND IMPROVEMENT PLAN - SHEET 2

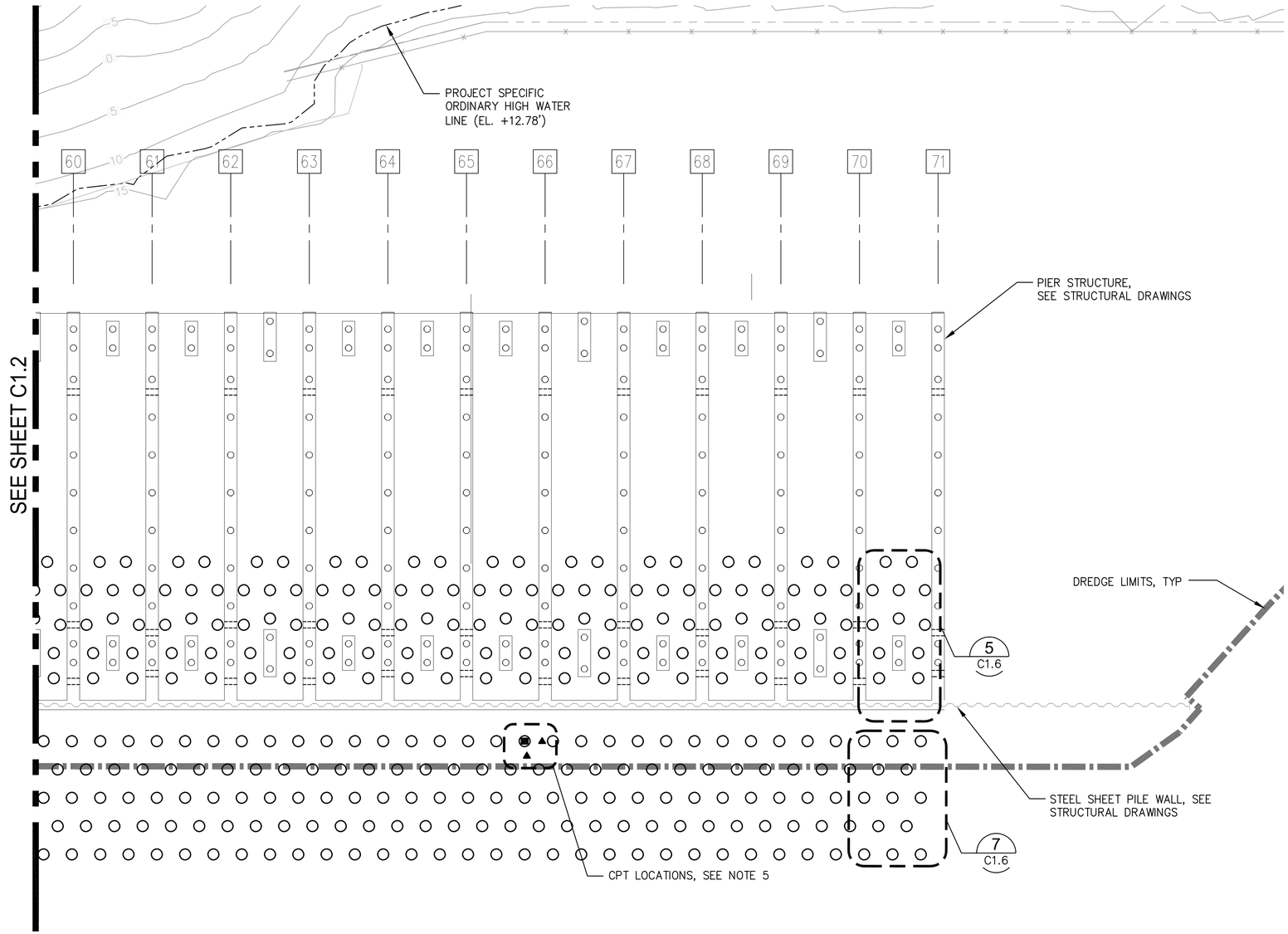
6552
C1.2
SH 41 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: smillett Jul 17, 2018 PROJ. ENGR DATE
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C1.1-C1.3 (Ground Improvement Plan)



GROUND IMPROVEMENT PLAN

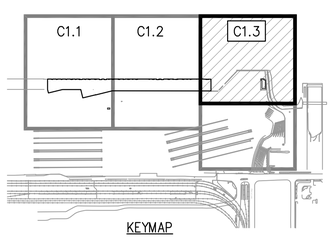
SCALE: 1"=20'

LEGEND

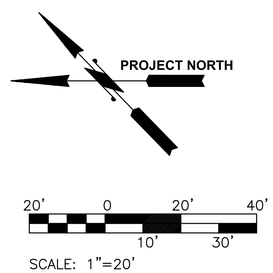
- DREDGE LIMITS, SEE DREDGE PLAN C2.1
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- 3.5'ø STONE COLUMNS INSTALLED PRIOR TO DREDGE CUTBACK
- 71 — PIER BENTS, SEE STRUCTURAL DRAWINGS
- ■ — INDICATES LOCATION OF PRE-IMPROVEMENT CPT. PRE-IMPROVEMENT CPTS SHALL BE ADVANCED BEFORE STARTING ANY STONE COLUMN INSTALLATION.
- ▲ — INDICATES LOCATION OF POST-IMPROMENT CPT. POST-IMPROVEMENT CPTS SHALL BE ADVANCED NO SOONER THAN 14 DAYS AFTER COMPLETION OF ALL STONE COLUMN INSTALLATION.

NOTES

1. SEE SPECIFICATIONS FOR REQUIREMENTS ON SEQUENCING OF STONE COLUMN INSTALLATION WORK IN RELATION TO DREDGING AND SHEET PILE WALL INSTALLATION.
2. STONE COLUMNS INSTALLED WATERWARD OF OHWL SHALL BE INSTALLED DURING THE IN-WATER WORK SEASON.
3. STONE COLUMNS WATERSIDE OF STEEL SHEET PILE WALL SHALL NOT BE INSTALLED WHERE THEY DIRECTLY CONFLICT WITH PIER PILES, SEE STRUCTURAL PILE AND PILE CAP PLANS.
4. ALL UTILITY DEACTIVATION AND DEMOLITIONS WITHIN GROUND IMPROVEMENT AREA SHALL OCCUR PRIOR TO THE INSTALLATION OF STONE COLUMNS.
5. CONE PENETRATION TESTS (CPT) SHALL BE PERFORMED AT THE LOCATIONS SHOWN ON THE PLAN AND PER THE SPECIFICATIONS.



KEYMAP



SCALE: 1"=20'

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
GROUND IMPROVEMENT PLAN - SHEET 3

6552
C1.3
SH 42 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

MARK:	REVISION:	BY:	APPR:	DATE:

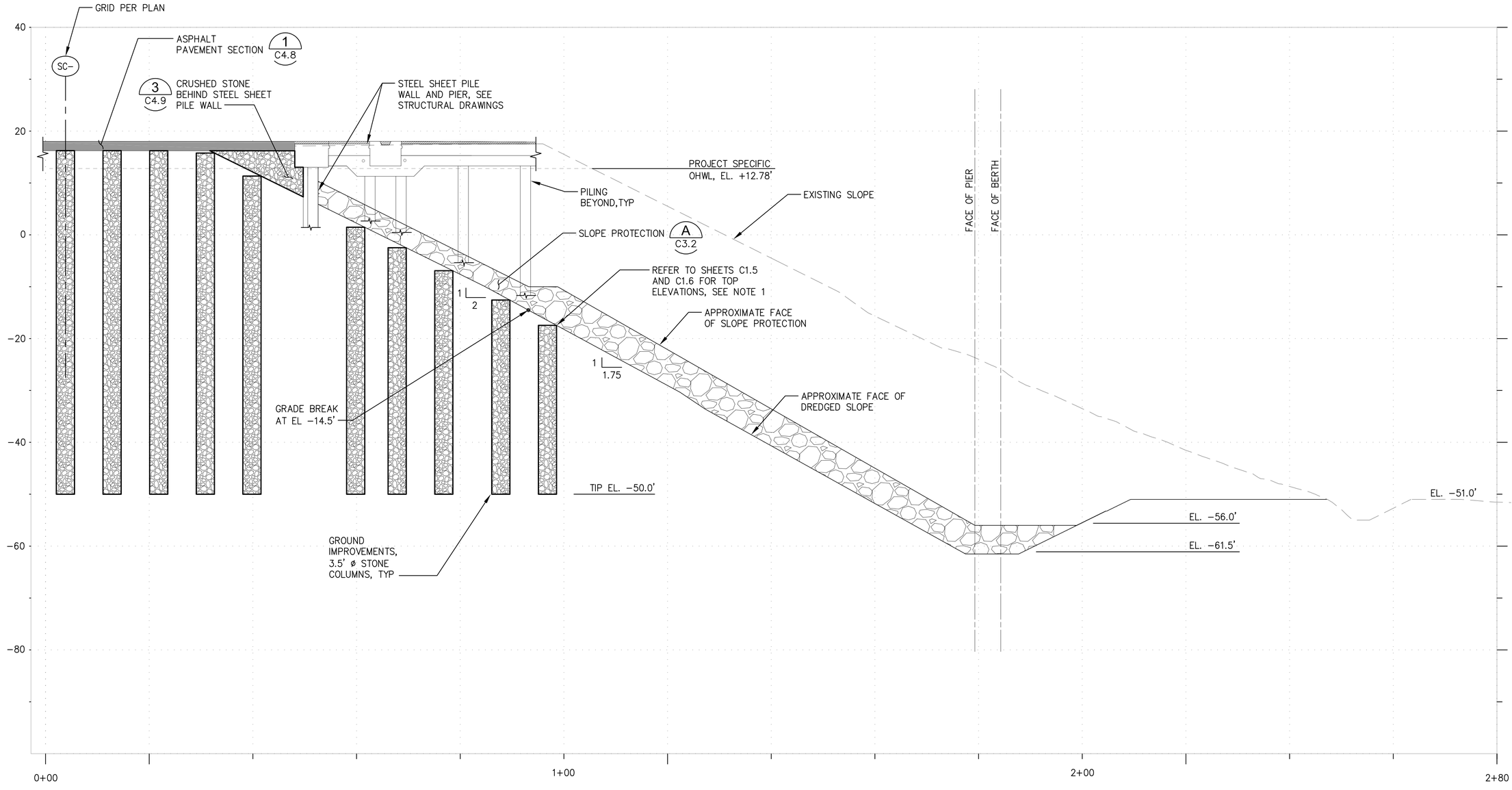
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535383041

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C1.1-C1.3 (Ground Improvement Plan)
BINDING EDGE

BINDING EDGE



GROUND IMPROVEMENT TYPICAL SECTION

A C1.2

SCALE: 1"=10'

LEGEND

3.5'ø STONE COLUMNS INSTALLED PRIOR TO DREDGING

NOTES:

1. VIBRO–COMPACTION OF STONE COLUMN MATERIAL SHALL NOT OCCUR ABOVE TOP ELEVATIONS SHOWN ON SHEETS C1.5 AND C1.6.

10' 0 10' 20'
5' 15'

SCALE: 1"=10'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PIER 4 PHASE 2 RECONFIGURATION
GROUND IMPROVEMENT TYPICAL SECTION

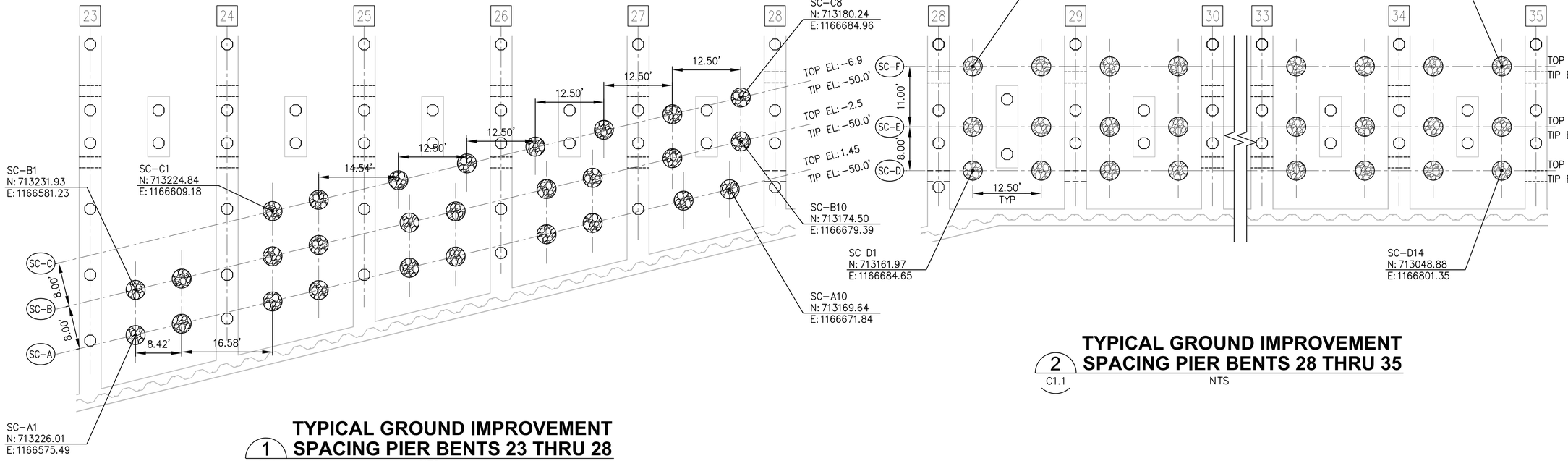
6552
C1.4
SH 43 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:
PRINTED BY: smillett Jul
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

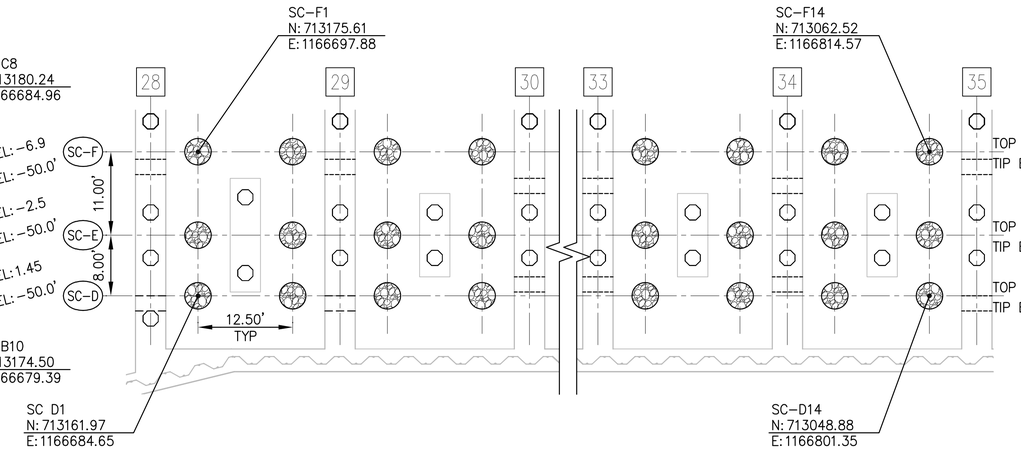
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C1.4 (Ground Improvement Section)



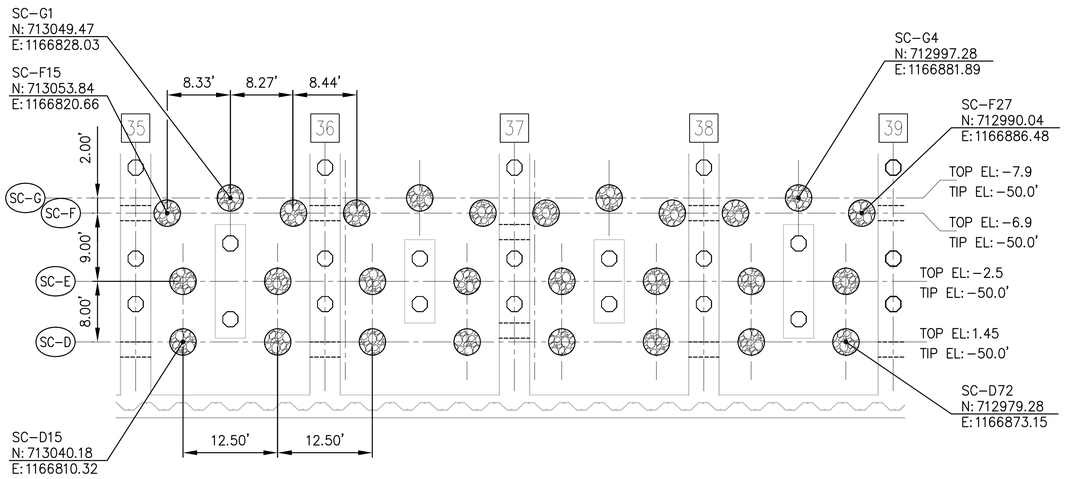
1 TYPICAL GROUND IMPROVEMENT SPACING PIER BENTS 23 THRU 28

C1.1 NTS



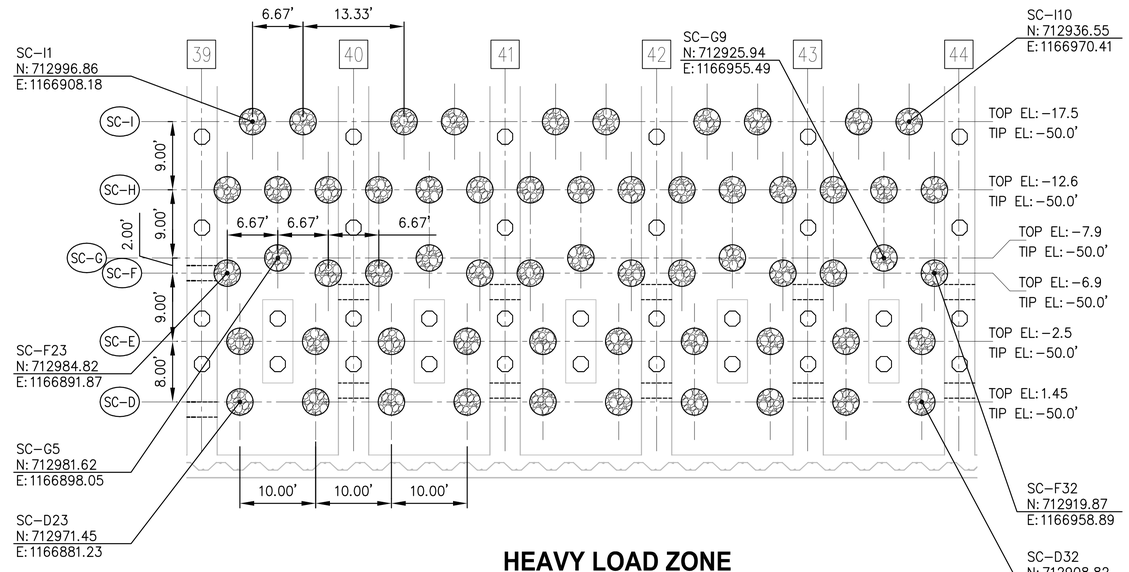
2 TYPICAL GROUND IMPROVEMENT SPACING PIER BENTS 28 THRU 35

C1.1 NTS



3 TYPICAL GROUND IMPROVEMENT SPACING PIER BENTS 35 THRU 39

C1.1 NTS



HEAVY LOAD ZONE TYPICAL GROUND IMPROVEMENT SPACING PIER BENTS 39 THRU 44

4 C1.2 NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
GROUND IMPROVEMENT DETAILS - SHEET 1

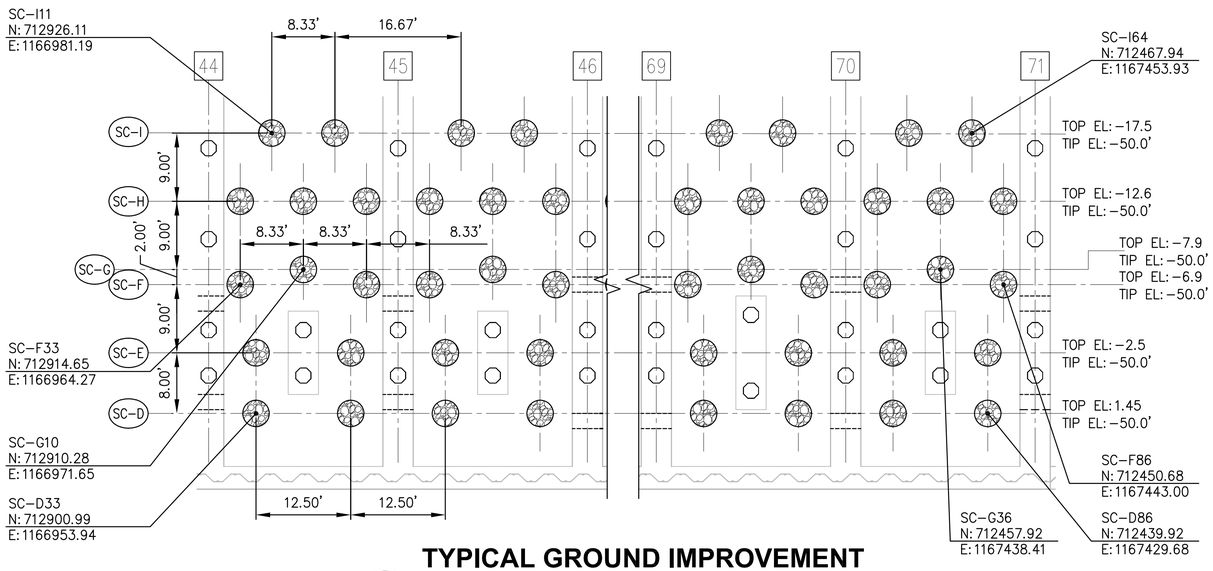
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
C1.5
SH 44 OF 499

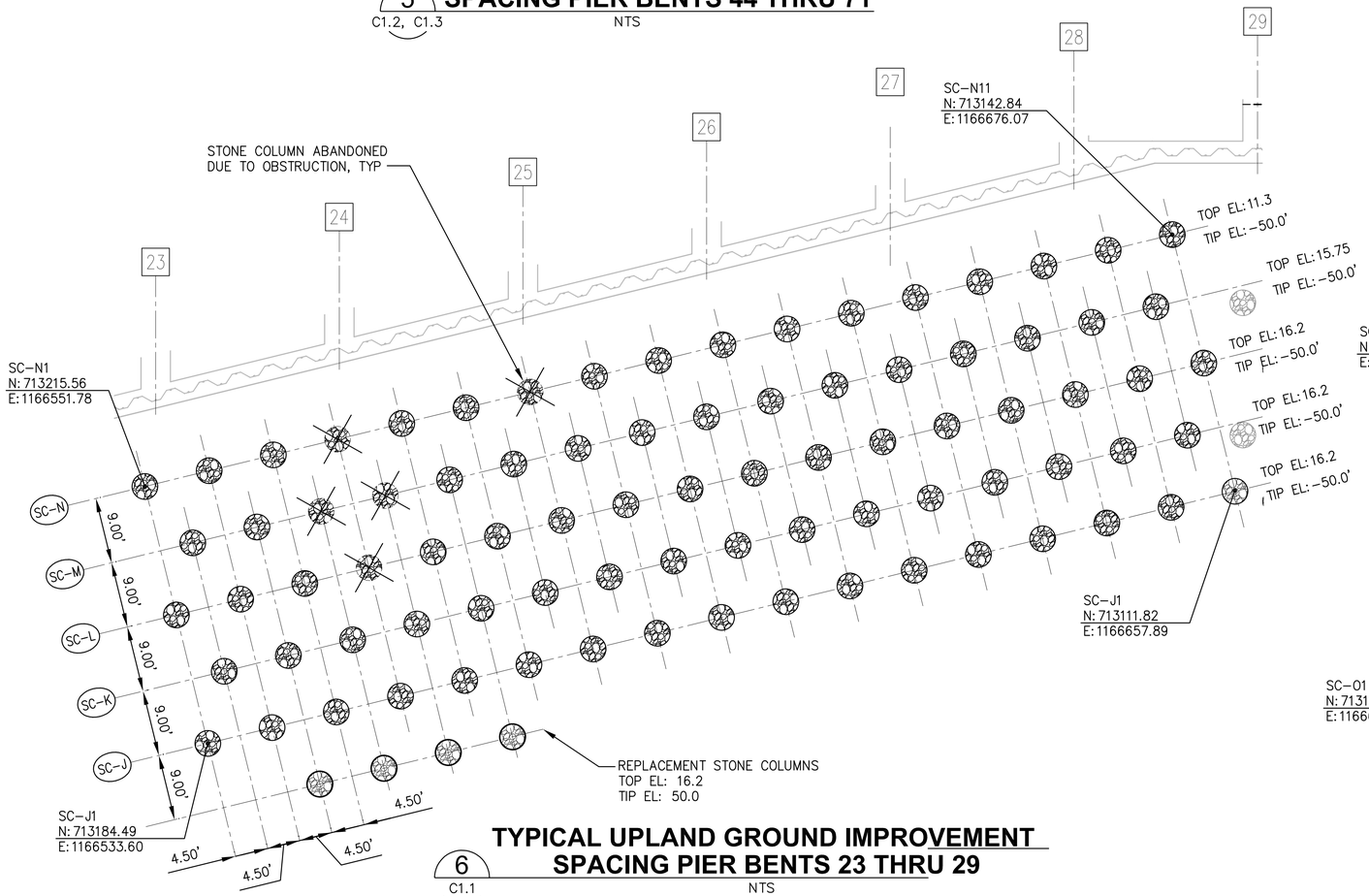
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C1.5-C1.6 (Ground Improvement Details)



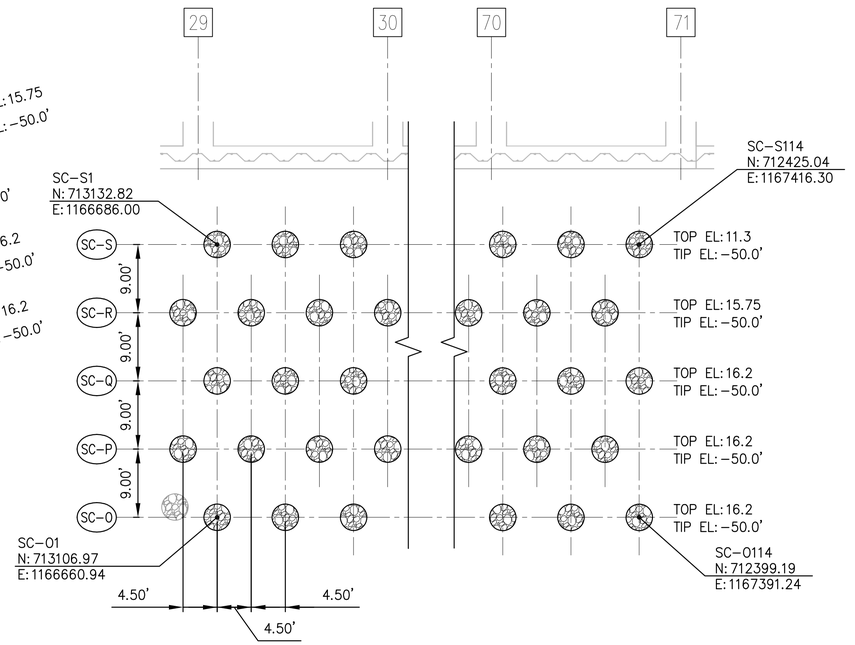
TYPICAL GROUND IMPROVEMENT SPACING PIER BENTS 44 THRU 71

5 C1.2, C1.3 NTS



TYPICAL GROUND IMPROVEMENT SPACING PIER BENTS 23 THRU 29

6 C1.1 NTS



TYPICAL UPLAND GROUND IMPROVEMENT SPACING PIER BENTS 29 THRU 71

7 C1.1, C1.2, C1.3 NTS

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C1.5-C1.6 (Ground Improvement Details)

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PROJ. ENGR DATE

PRINTED BY: smillett Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401–1837

PIER 4 PHASE 2 RECONFIGURATION

GROUND IMPROVEMENT DETAILS - SHEET 2

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

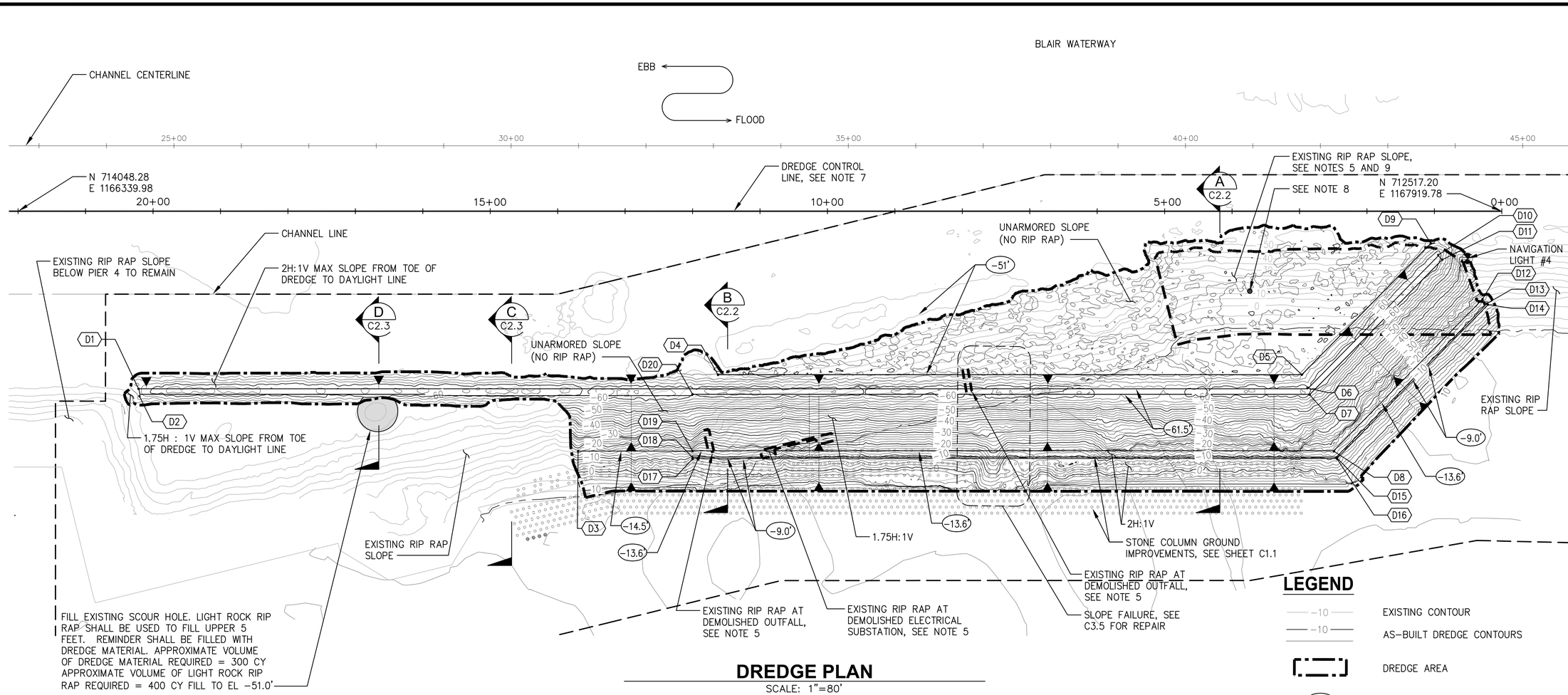
6552

C1.6

SH 45 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS



DREDGE PLAN

SCALE: 1"=80'

NOTES

1. SEE SPECIFICATIONS FOR REQUIREMENTS ON SEQUENCING OF STONE COLUMN INSTALLATION WORK IN RELATION TO DREDGING AND SHEET PILE WALL INSTALLATION.
2. CONTRACTOR SHALL DREDGE ALL SEDIMENT AND RIP RAP INDICATED ON THIS PLAN AND SECTIONS. DREDGING SHALL NOT EXTEND BEYOND LIMITS SHOWN.
3. CONTRACTOR SHALL COORDINATE ALL DREDGING ACTIVITIES AND SCHEDULE WITH THE PORT AND EXISTING TERMINAL OPERATIONS.
4. SEE SPECIFICATIONS FOR ADDITIONAL DREDGING AND DISPOSAL REQUIREMENTS.
5. REMOVE APPROXIMATELY 5,600 CY OF EXISTING RIP RAP PRIOR TO DREDGING SEDIMENT. RIP RAP AND DEBRIS SHALL BE REMOVED AND DISPOSED OF SEPARATELY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS, SEE SPECIFICATIONS.
6. ALL SEDIMENT SHALL BE DISPOSED OF AT THE COMMENCEMENT BAY OPEN WATER DREDGE MATERIAL DISPOSAL SITE (DMMP SITE) AND IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. FOR DISPOSAL SITE LOCATION SEE 1/C2.6
7. SEE SHEETS C2.2 THRU C2.5 FOR DREDGE SECTIONS.
8. EXISTING 6" DIAMETER x20' LONG (APPROXIMATE) STEEL CORE BARREL IS LOCATED IN THE RIP RAP SLOPE AT THE FOLLOWING APPROXIMATE COORDINATES:
   NORTHING: 712688.60
   EASTING: 1167565.50
   THE CORE BARREL BROKE DURING SOIL SAMPLING APPROXIMATELY 1-FOOT ABOVE THE MUDLINE AND EXTENDS UP TO 19 FEET BELOW MUDLINE. THE CORE BARREL SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO, OR DURING, DREDGING & SHALL BE CONSIDERED AS DEBRIS FOR THE PURPOSE OF HANDLING AND DISPOSAL.
9. A DEBRIS SCREEN SHALL BE USED DURING THE FIRST PASS OF DREDGING IN THIS AREA (AFTER REMOVAL OF RIPRAP AND SURFACE DEBRIS). SEE SPECIFICATIONS.

DREDGE CONTROL POINTS

POINT ID	NORTHING	EASTING
D1	713731.47	1166281.38
D2	713722.67	1166274.76
D3	713211.42	1166685.17
D4	713148.44	1166913.08
D5	712545.99	1167534.69
D6	712525.79	1167526.79
D7	712516.68	1167523.23
D8	712432.03	1167490.16
D9	712552.75	1167807.51
D10	712532.65	1167803.52
D11	712522.60	1167803.77
D12	712439.83	1167813.89

DREDGE CONTROL POINTS

POINT ID	NORTHING	EASTING
D13	712430.60	1167805.18
D14	712428.36	1167805.23
D15	712422.70	1167486.52
D16	712420.45	1167485.63
D17	713085.46	1166799.46
D18	713087.07	1166801.01
D19	713093.70	1166807.44
D20	713153.88	1166865.76

LEGEND

- EXISTING CONTOUR
- AS-BUILT DREDGE CONTOURS
- DREDGE AREA
- REQUIRED DREDGE DEPTH
- DREDGE SLOPE
- EXISTING PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL +12.78')
- STONE COLUMN GROUND IMPROVEMENTS, SEE SHEET C1.1
- LIMITS OF EXISTING RIP RAP SLOPE WITHIN OR ADJACENT TO WORK LIMITS. SEE NOTES 5 AND 9
- PROJECT WORK AREA LIMITS

PROJECT NORTH

80' 0 80' 160'
40' 120'

SCALE: 1"=80'

POST DREDGE BATHYMETRIC CONTOURS SHOWN

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED: CHECKED BY DATE
DIRECTOR ENG. DATE

PIER 4 PHASE 2 RECONFIGURATION
DREDGE PLAN

PROJ. ENGR	smillett Jul 20, 2018	SECTION:	
BY:		PRINTED BY:	smillett
TOWNSHIP:		RANGE:	
DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933
ADDRESS:	ONE SITCUM PLAZA	PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837		TACOMA, WA 98401-1837
PARCEL:		DRAWING SCALE:	AS NOTED

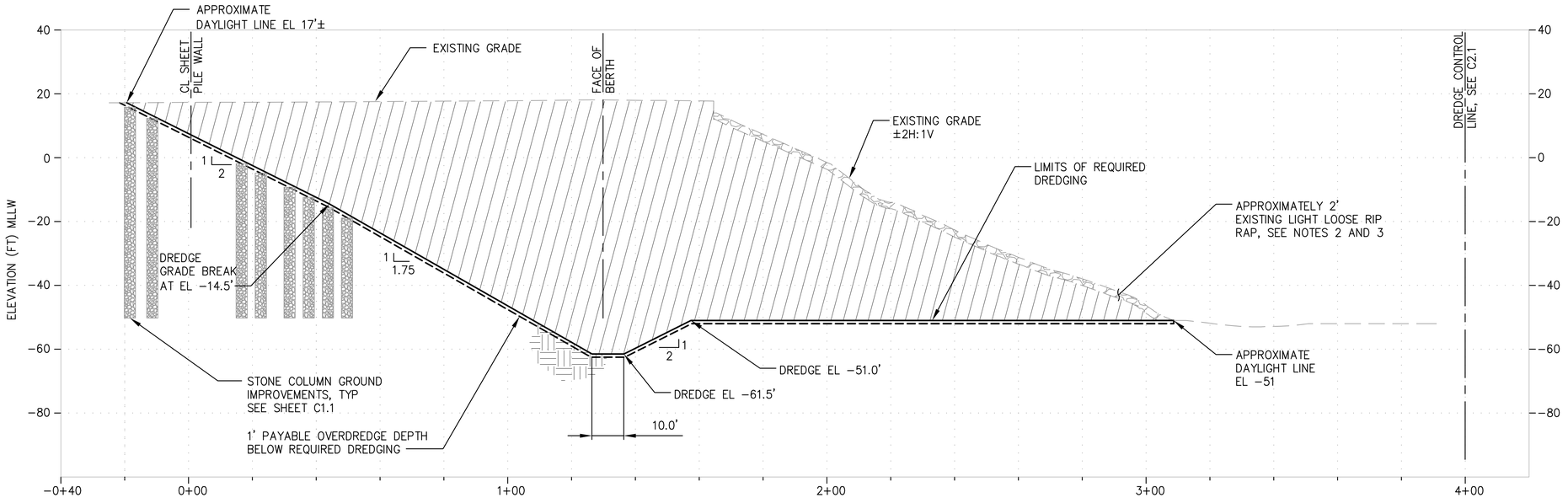
6552
C2.1
SH 46 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

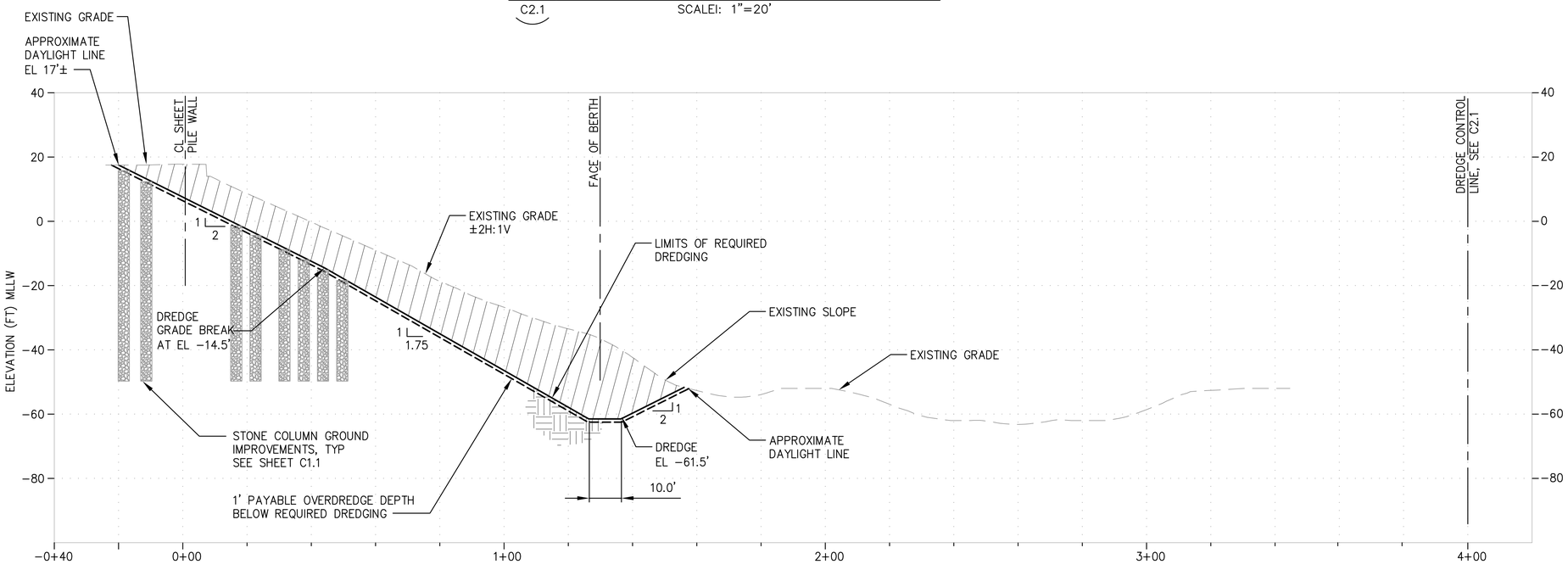
BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C2.1 (Dredge Plan - Sheet 1)



A C2.1 **DREDGE SECTION - STA 4+20**

SCALE: 1"=20'



B C2.1 **DREDGE SECTION - STA 11+50**

SCALE: 1"=20'

NOTES

1. DEMOLISH ALL UTILITIES WITHIN THE LIMITS OF DREDGE, SEE UTILITY AND SITE DEMOLITION PLANS.
2. WHERE APPLICABLE, REMOVE EXISTING RIP RAP PRIOR TO DREDGING SEDIMENT. RIP RAP SHALL BE REMOVED AND DISPOSED OF SEPARATELY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. SEE SPECIFICATIONS. SEE DREDGE PLAN FOR APPROXIMATE EXTENTS.
3. A DEBRIS SCREEN SHALL BE USED DURING THE FIRST PASS OF DREDGING IN THIS AREA (AFTER REMOVAL OF RIPRAP AND SURFACE DEBRIS). SEE SPECIFICATIONS.

LEGEND

DREDGE AREA

20' 0 20' 40'
10' 30'
SCALE: 1"=20'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
TYPICAL DREDGE SECTIONS - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

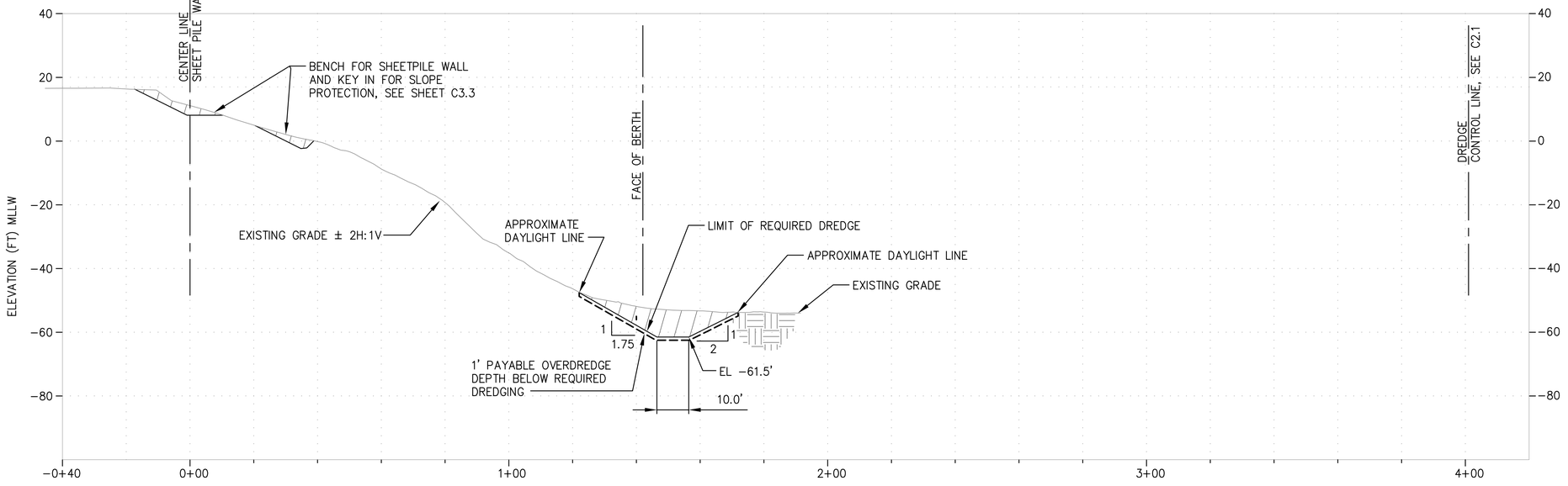
PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
C2.2
SH 47 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C2.2 (Dredge and Slope Protection - Sheet 1)

BINDING EDGE



C2.1 **DREDGE SECTION - STA 14+70**

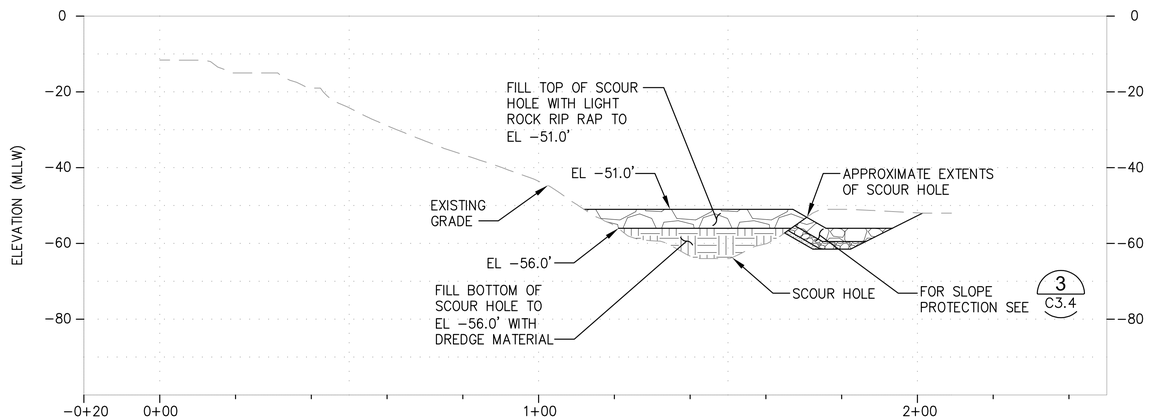
SCALE: 1"=20'

NOTES

1. DEMOLISH ALL UTILITIES WITHIN THE LIMITS OF DREDGE, SEE UTILITY AND SITE DEMOLITION PLANS.
2. REMOVE EXISTING RIP RAP PRIOR TO DREDGING SEDIMENT, RIP RAP SHALL BE REMOVED AND DISPOSED OF SEPARATELY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS, SEE SPECIFICATIONS. SEE DREDGE PLAN FOR APPROXIMATE EXTENTS.

LEGEND

DREDGE AREA



C2.1, C3.1 **SCOUR HOLE FILL SECTION**

SCALE: 1"=20'

20' 0 20' 40'
10' 30'

SCALE: 1"=20'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2503/253-383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE CHECKED BY DATE

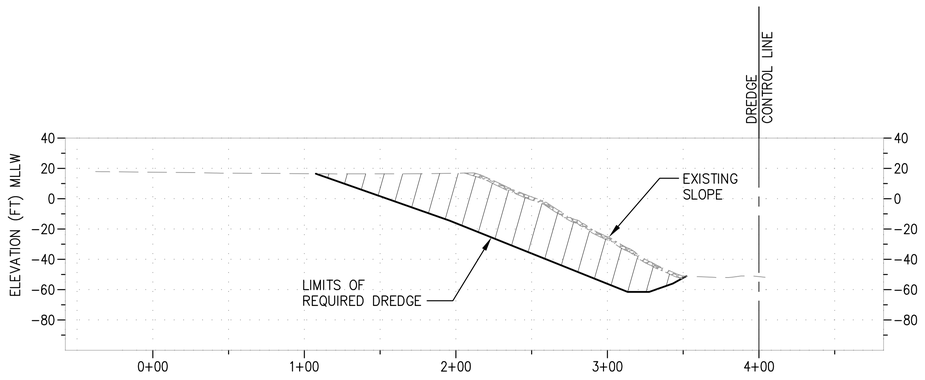
PIER 4 PHASE 2
RECONFIGURATION
TYPICAL DREDGE SECTIONS - SHEET 2

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul 17, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

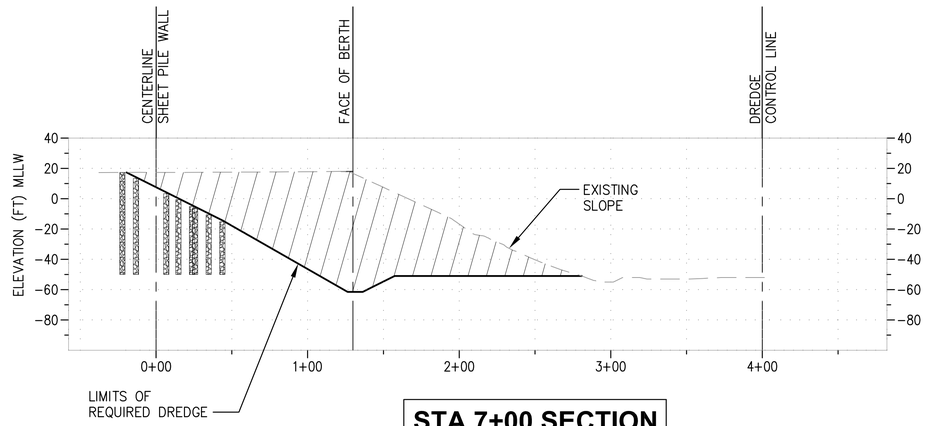
6552
C2.3
SH 48 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

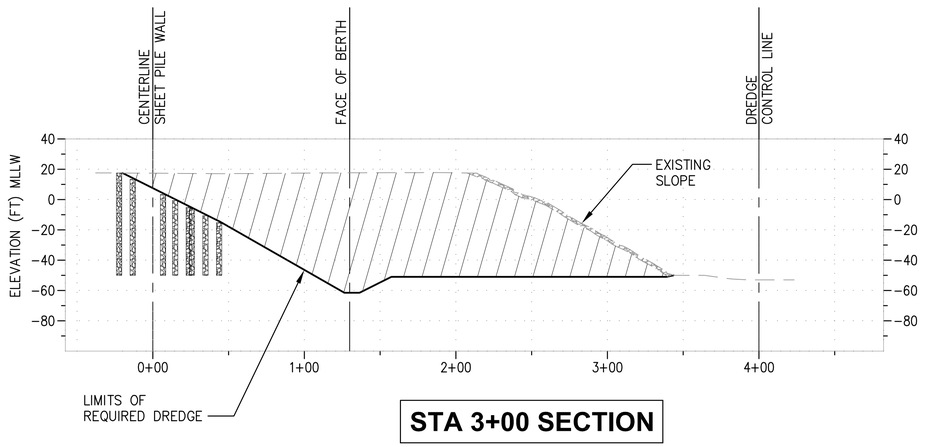
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C2.3 (Dredge and Slope Protection - Sheet 2)



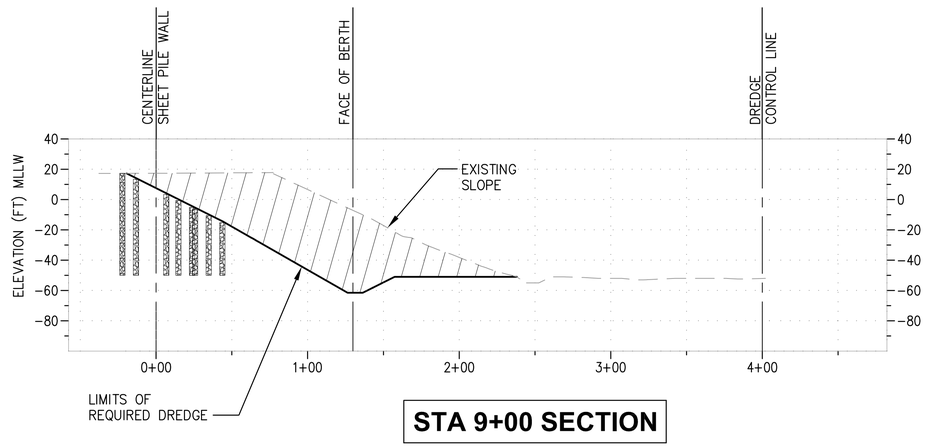
STA 1+00 SECTION



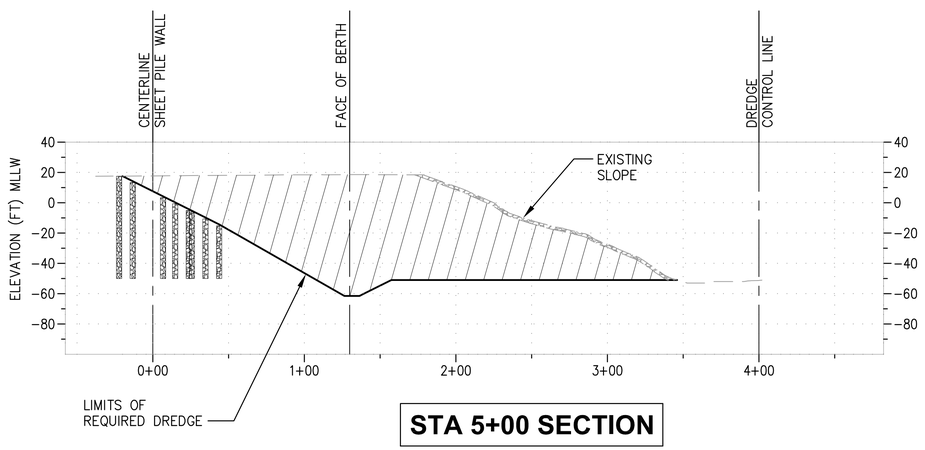
STA 7+00 SECTION



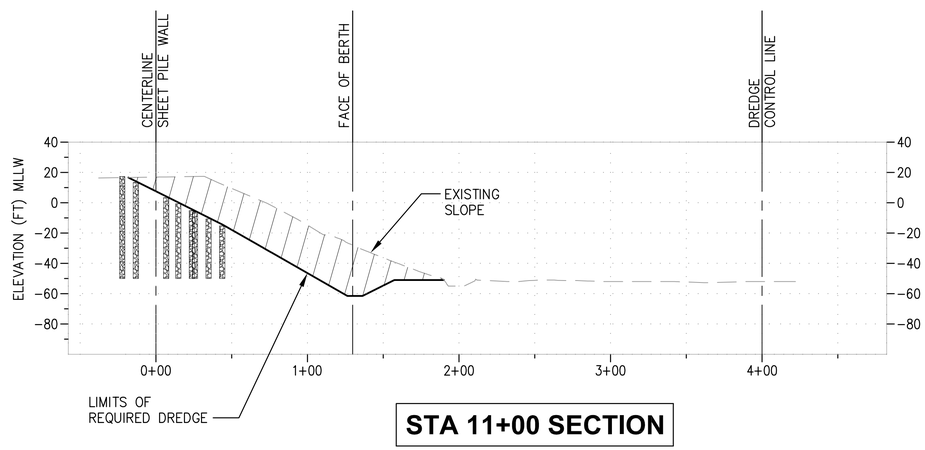
STA 3+00 SECTION



STA 9+00 SECTION



STA 5+00 SECTION



STA 11+00 SECTION

LEGEND

DREDGE AREA

STONE COLUMN GROUND IMPROVEMENTS, SEE C1.1 THRU C1.3

NOTES

1. SEE SHEET C2.1 FOR DREDGE CONTROL LINE DEFINITION.
2. FOR CLARITY THE 1' PAYABLE OVERDREDGE DEPTH BELOW REQUIRED DREDGING IS NOT SHOWN.

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PROJ. ENGR	DATE		

PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

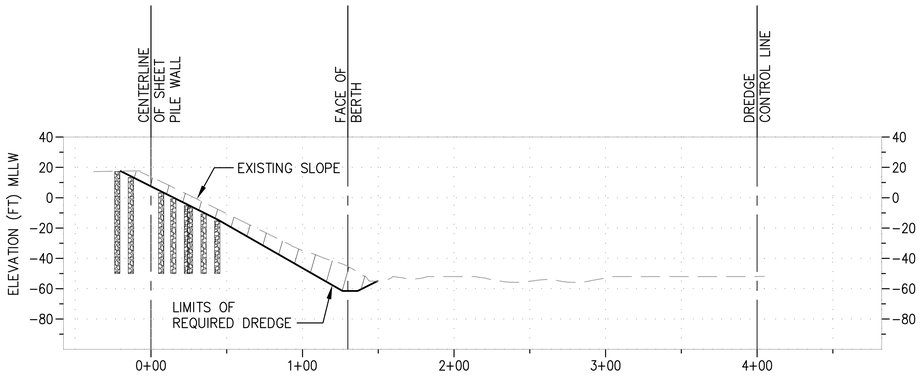
DREDGE SECTIONS - SHEET 1

6552
C2.4
SH 49 OF 499

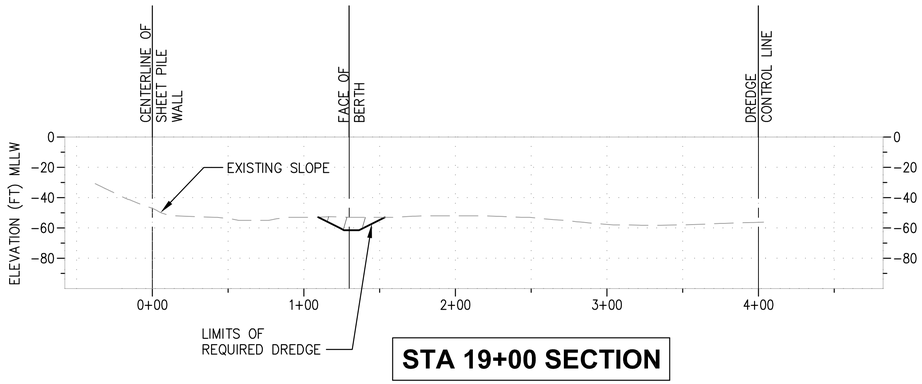
CONT/CONS:	0701136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

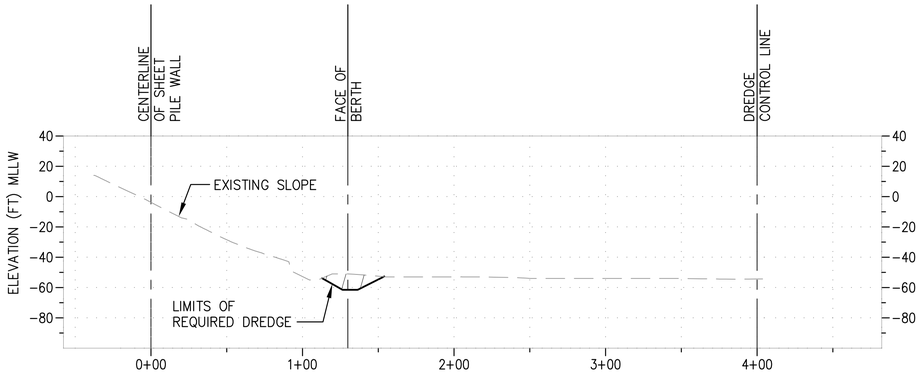
PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C2.4-C2.5 (Dredge Sections - Sheet 1)
BINDING EDGE



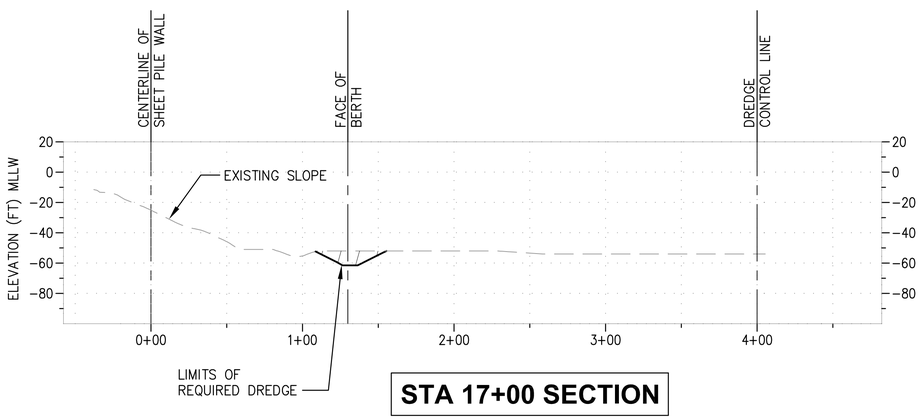
STA 13+00 SECTION



STA 19+00 SECTION



STA 15+00 SECTION



STA 17+00 SECTION

LEGEND

DREDGE AREA

STONE COLUMN GROUND IMPROVEMENTS, SEE C1.1 THRU C1.3

NOTES

1. SEE SHEET C2.1 FOR DREDGE CONTROL LINE DEFINITION.
2. FOR CLARITY THE 1' PAYABLE OVERDREDGE DEPTH BELOW REQUIRED DREDGING IS NOT SHOWN.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C2.4-C2.5 (Dredge Sections - Sheet 1)

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

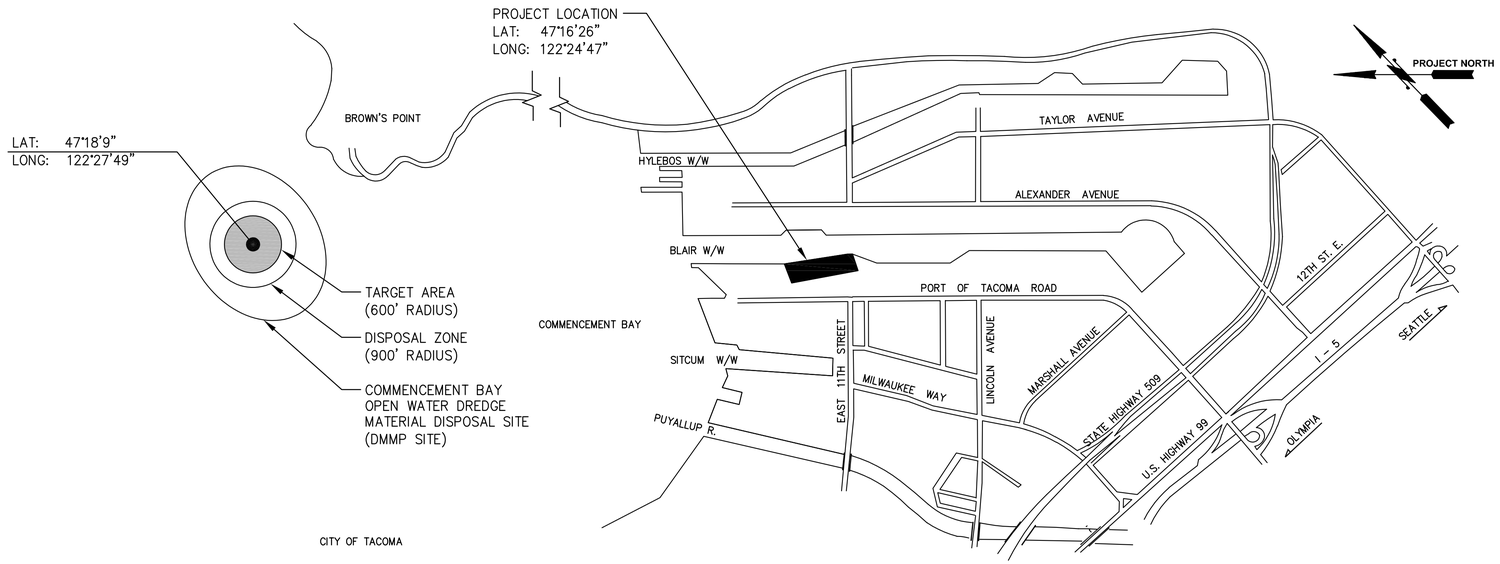
DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
DREDGE SECTIONS - SHEET 2

6552
C2.5
SH 50 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul 17, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



NOTES:

1. THE DMMP DISPOSAL SITE IS SHOWN CLOSER THAN THE ACTUAL SITE DISTANCE.

DMMP OPEN WATER DISPOSAL SITE

1 / C1.1 — NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2539536841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: smillett Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

DREDGE DETAILS

6552

C2.6

SH 51 OF 499

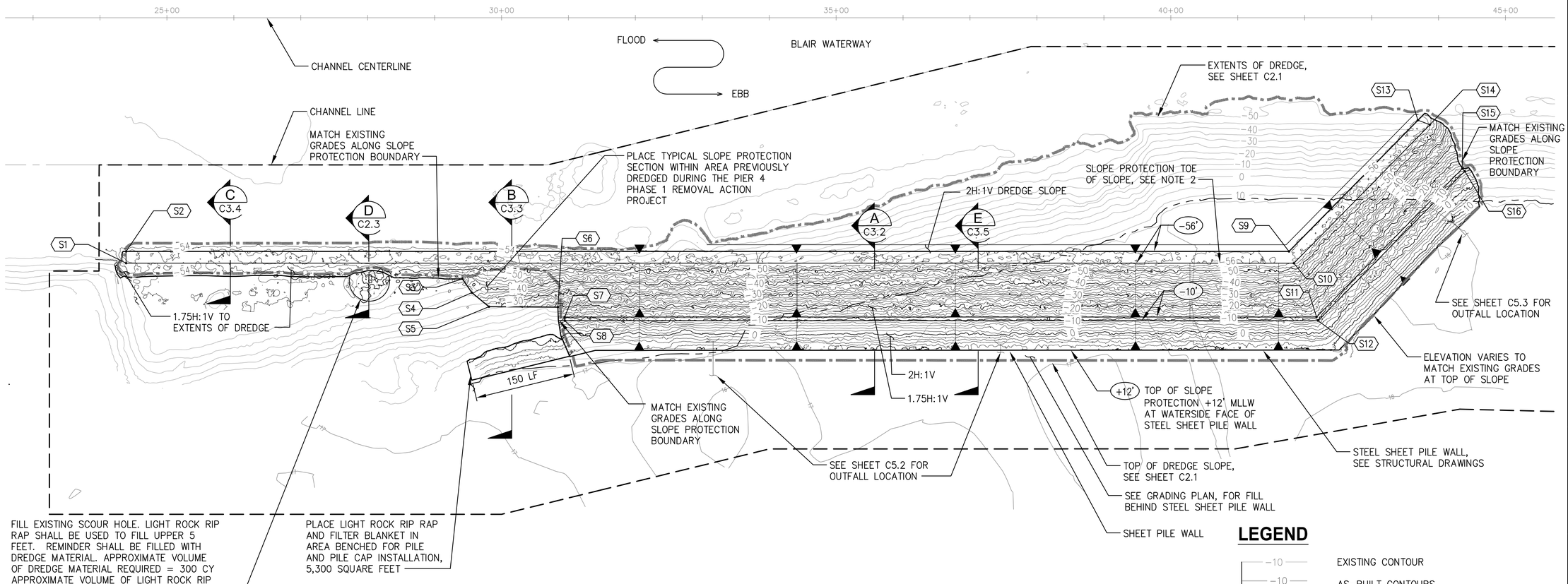
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C2.6 (Dredge Details)



NOTES

1. SEE SHEET C3.2, TYPICAL SLOPE PROTECTION FOR SLOPE PROTECTION MATERIALS AND THICKNESSES.
2. THE HORIZONTAL LOCATION OF THE SLOPE PROTECTION TOE OF SLOPE AND ASSOCIATED CONTROL POINTS S10 & S14 MAY BE ADJUSTED AT ENGINEER'S DIRECTION BASED ON REVIEW OF THE POST-DREDGE SURVEY. THE ADJUSTMENT WILL BE MADE TO MINIMIZE THE VOLUME OF LIGHT ROCK RIP RAP MATERIAL PLACED WITHIN THE PAYABLE OVERDREDGE AREA.

SLOPE PROTECTION PLAN

SCALE: 1"=80'

SLOPE PROTECTION CONTROL POINTS

POINT ID	NORTHING	EASTING
S1	713732.71	1166270.69
S2	713745.28	1166282.87
S3	713365.81	1166615.33
S4	713341.47	1166611.06
S5	713308.56	1166614.74
S6	713236.42	1166688.35
S7	713218.73	1166685.30
S8	713214.88	1166681.56
S9	712535.89	1167530.74

SLOPE PROTECTION CONTROL POINTS

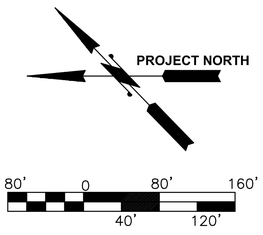
POINT ID	NORTHING	EASTING
S10	712518.22	1167523.83
S11	712436.90	1167492.06
S12	712431.48	1167489.95
S13	712542.70	1167805.67
S14	712525.40	1167813.75
S15	712444.60	1167802.82
S16	712439.24	1167802.95

NOTES:

1. CONTROL POINTS REPRESENT TOP OF FINISHED ROCK FACE.

LEGEND

- EXISTING CONTOUR
- AS-BUILT CONTOURS
- PROJECT WORK AREA LIMITS
- SLOPE PROTECTION CONTROL POINT
- STORM DRAIN OUTFALL, SEE DRAINAGE PLANS
- FINISH GRADE ELEVATION
- REVETMENT SLOPE
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- LIMITS OF SLOPE PROTECTION
- EXTENTS OF DREDGE, SEE SHEET C2.1



SCALE: 1"=80'

POST-ROCK PLACEMENT BATHYMETRIC CONTOURS SHOWN

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: kvang Jul 19, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

SLOPE PROTECTION PLAN

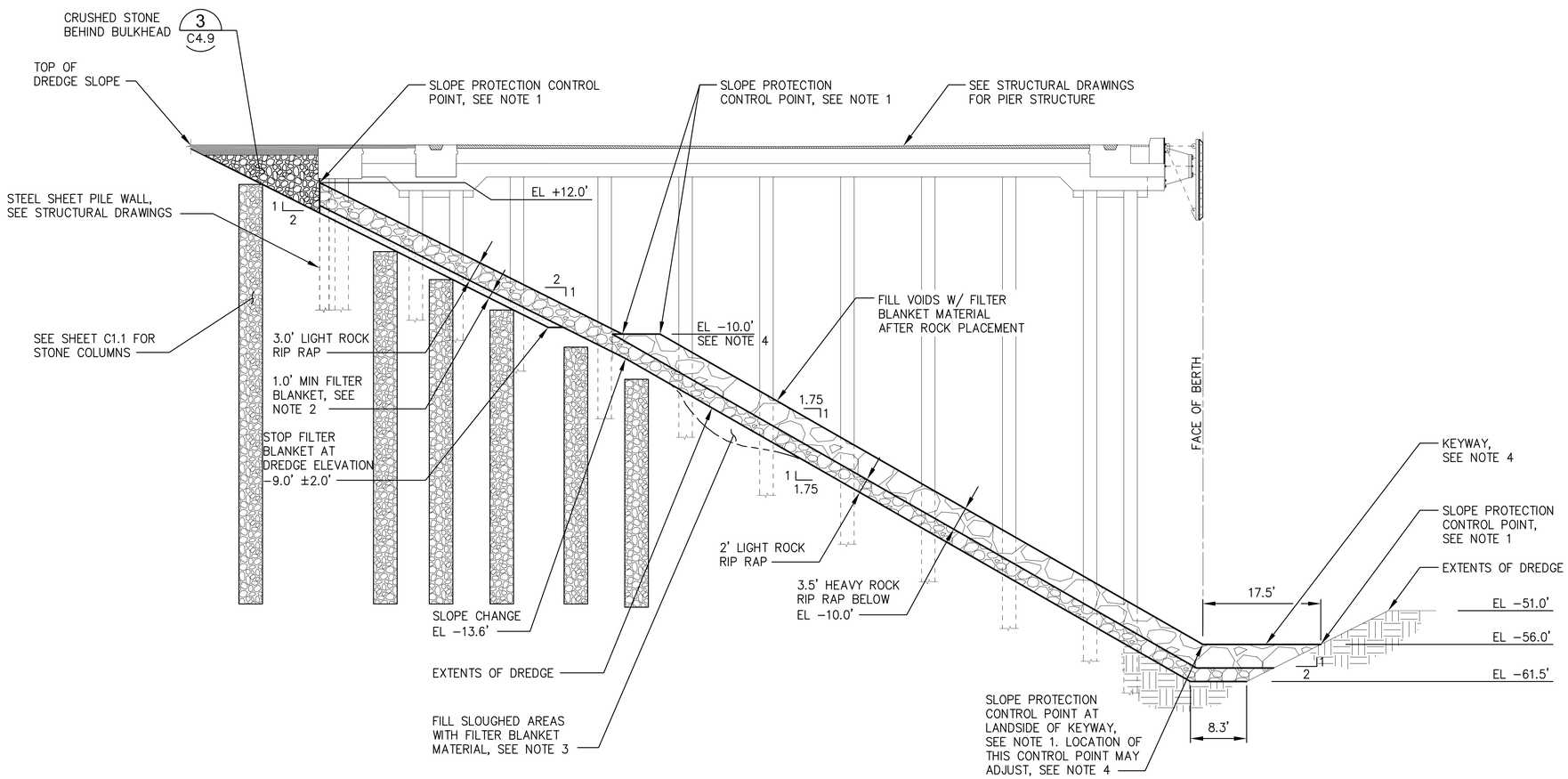
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C3.1
SH 52 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C3.1 (Slope Protection Plan - Sheet 1)

BINDING EDGE



A SLOPE PROTECTION SECTION

C1.4, C3.1 SCALE: 1"=10'

NOTES

1. SEE C3.1 FOR SLOPE PROTECTION CONTROL POINT COORDINATES.
2. FILTER BLANKET THICKNESS MAY VARY TO ACHIEVE THE TOP SURFACE OF FINISHED ROCK FACE AS DEFINED BY THE SLOPE PROTECTION CONTROL POINTS.
3. IF SLOPE SLOUGHING OCCURS DURING OR AFTER DREDGING, SLOUGHED AREAS SHALL BE FILLED WITH FILTER BLANKET MATERIAL PRIOR TO PLACEMENT OF LIGHT RIPRAP.
4. THE ELEVATION OF THE BENCH SHOWN AT -10.0' MLLW, THE TOP SURFACE OF THE LIGHT ROCK RIP RAP LAYER AND HEAVY ROCK RIP RAP LAYER, AND THE HORIZONTAL LOCATION OF THE LANDSIDE CONTROL POINT AT THE KEYWAY MAY BE ADJUSTED AT ENGINEER'S DIRECTION BASED ON REVIEW OF THE POST-DREDGE SURVEY. THE ADJUSTMENT WILL BE MADE TO MINIMIZE THE VOLUME OF LIGHT ROCK RIP RAP MATERIAL PLACED WITHIN THE PAYABLE OVERDREDGE AREA.

10' 0 10' 20'
5' 15'
SCALE: 1"=10'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE
PROJ. ENGR DATE

PRINTED BY: smillett Jul 18, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
SLOPE PROTECTION SECTIONS - SHEET 1

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C3.2
SH 53 OF 499

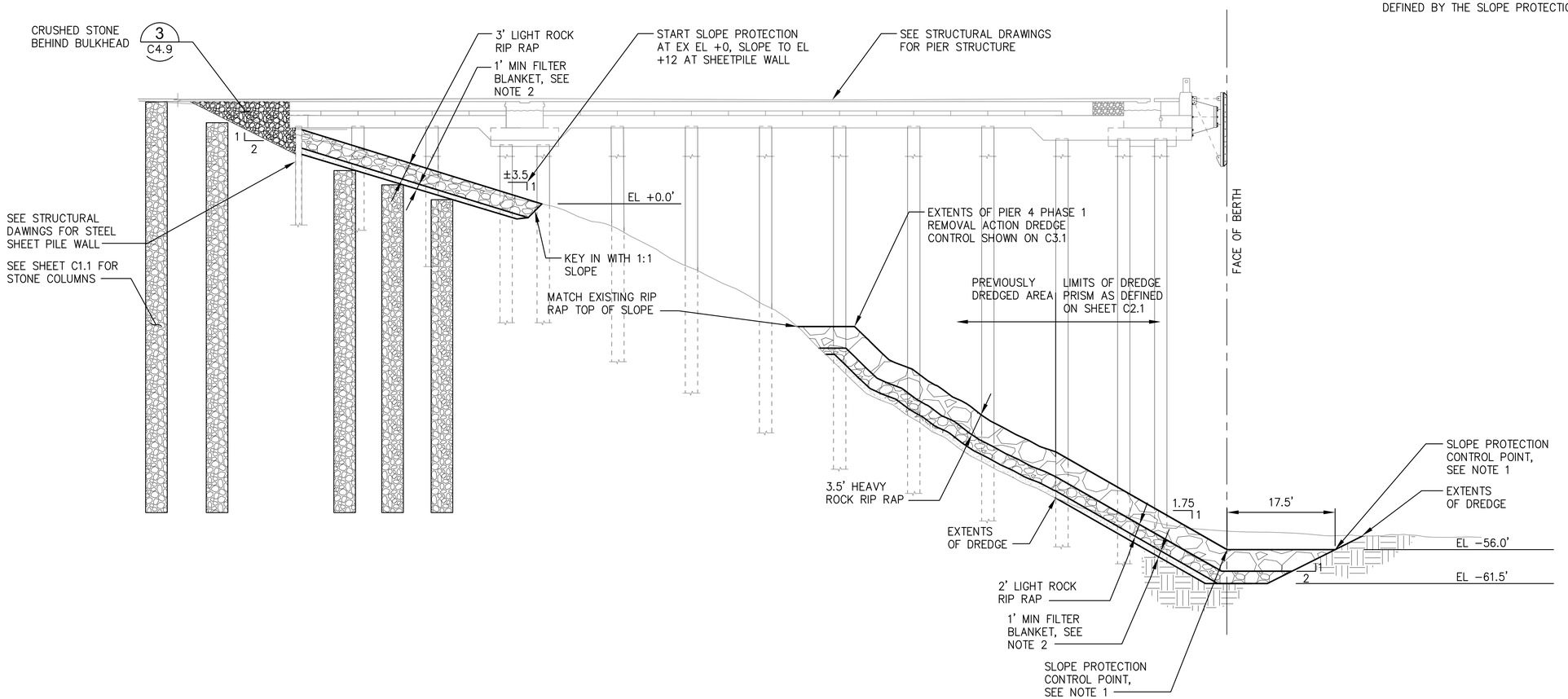
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C3.2-C3.5 (Typical Slope Protection Detail)

BINDING EDGE

NOTES

1. SEE C3.1 FOR SLOPE PROTECTION CONTROL POINT COORDINATES.
2. FILTER BLANKET THICKNESS MAY VARY TO ACHIEVE THE TOP SURFACE OF FINISHED ROCK FACE AS DEFINED BY THE SLOPE PROTECTION CONTROL POINTS.



B SLOPE PROTECTION SECTION
C3.1

SCALE: 1"=10'

10' 0 10' 20'
5' 15'
SCALE: 1"=10'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

APPROVED:

DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
SLOPE PROTECTION SECTIONS - SHEET 2

6552
C3.3
SH 54 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

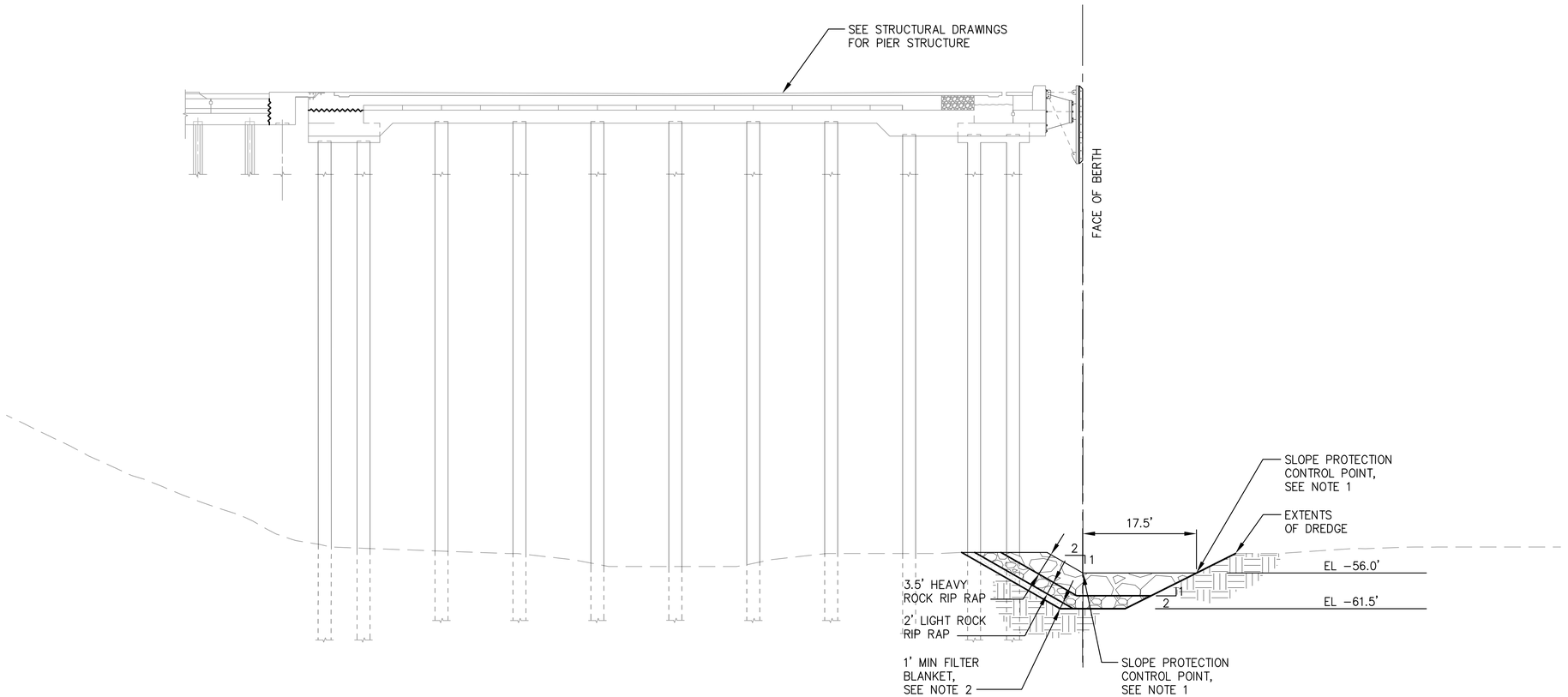
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C3.3 (Typical Slope Protection Detail)

BINDING EDGE

NOTES

1. SEE C3.1 FOR SLOPE PROTECTION CONTROL POINT COORDINATES.
2. FILTER BLANKET THICKNESS MAY VARY TO ACHIEVE THE TOP SURFACE OF FINISHED ROCK FACE AS DEFINED BY THE SLOPE PROTECTION CONTROL POINTS.



C SLOPE PROTECTION SECTION

C2.3, C3.1 SCALE: 1"=10'

10' 0 10' 20'
5' 15'
SCALE: 1"=10'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2500/253-383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:
DIRECTOR ENG. DATE
CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
SLOPE PROTECTION SECTIONS - SHEET 3

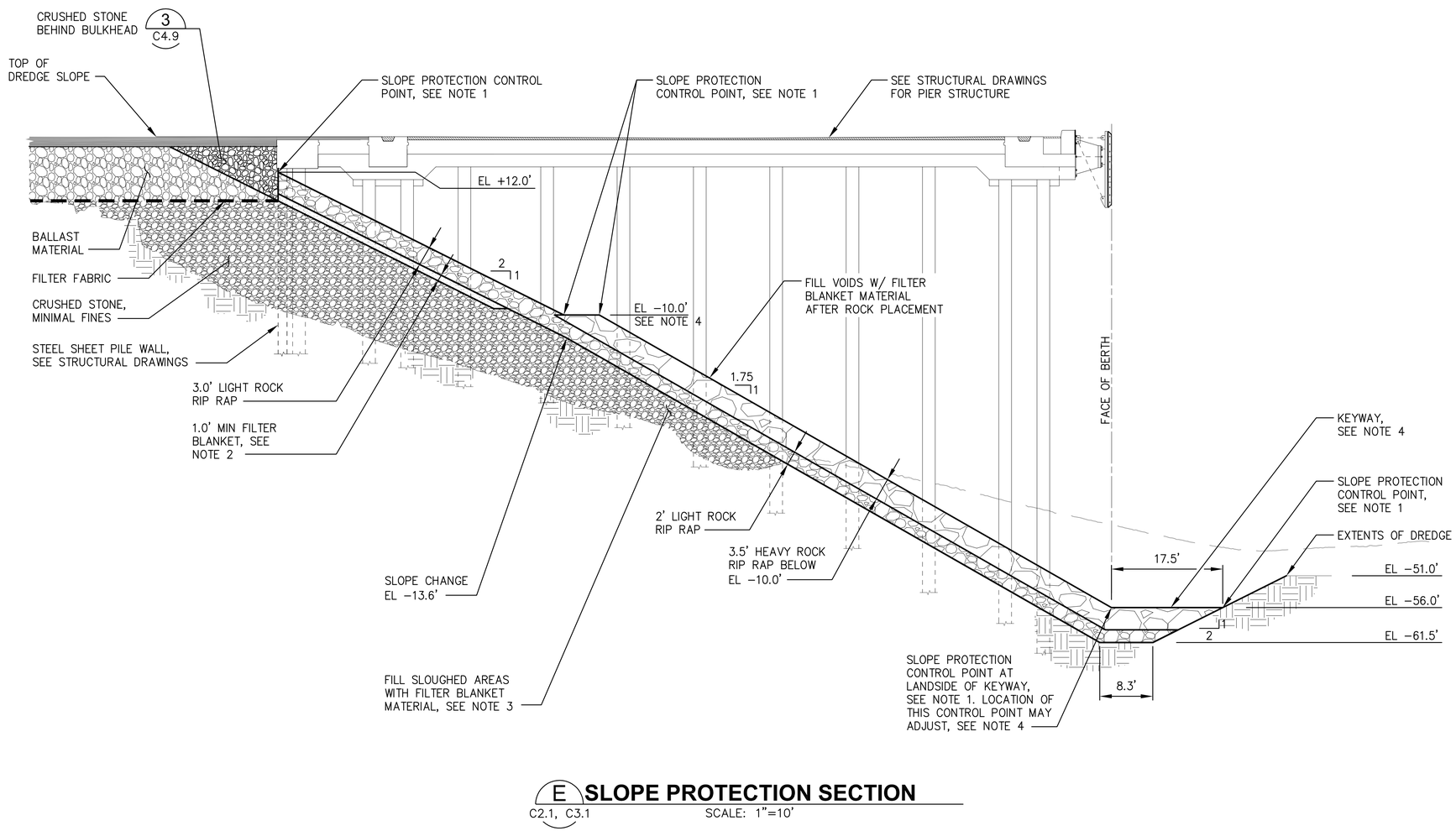
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: smillett Jul 17, 2018
PROJ. ENGR
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

6552
C3.4
SH 55 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C3.4 (Typical Slope Protection Detail)



E SLOPE PROTECTION SECTION

C2.1, C3.1 SCALE: 1"=10'

NOTES

1. SEE C3.1 FOR SLOPE PROTECTION CONTROL POINT COORDINATES.
2. FILTER BLANKET THICKNESS MAY VARY TO ACHIEVE THE TOP SURFACE OF FINISHED ROCK FACE AS DEFINED BY THE SLOPE PROTECTION CONTROL POINTS.
3. IF SLOPE SLOUGHING OCCURS DURING OR AFTER DREDGING, SLOUGHED AREAS SHALL BE FILLED WITH FILTER BLANKET MATERIAL PRIOR TO PLACEMENT OF LIGHT RIPRAP.
4. THE ELEVATION OF THE BENCH SHOWN AT −10.0' MLLW, THE TOP SURFACE OF THE LIGHT ROCK RIP RAP LAYER AND HEAVY ROCK RIP RAP LAYER, AND THE HORIZONTAL LOCATION OF THE LANDSIDE CONTROL POINT AT THE KEYWAY MAY BE ADJUSTED AT ENGINEER'S DIRECTION BASED ON REVIEW OF THE POST−DREDGE SURVEY. THE ADJUSTMENT WILL BE MADE TO MINIMIZE THE VOLUME OF LIGHT ROCK RIP RAP MATERIAL PLACED WITHIN THE PAYABLE OVERDREDGE AREA.

10' 0 10' 20'
5' 15'
SCALE: 1"=10'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
SLOPE PROTECTION SECTIONS - SHEET 1

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT−HRZ: WA83−SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

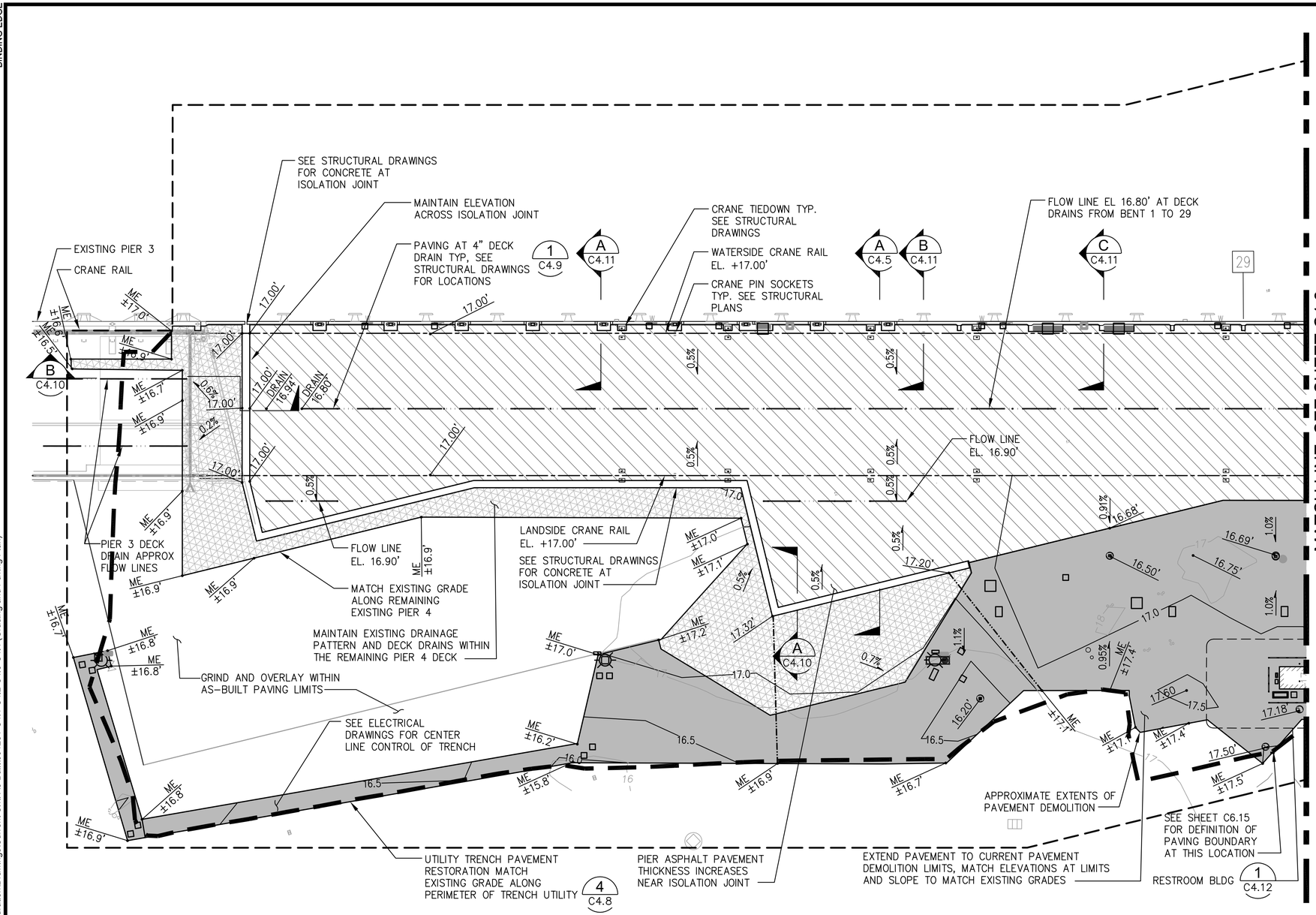
PRINTED BY: kvang Jul 19, 2018 PROJ. ENGR DATE
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401−1837

6552
C3.5
SH 55.1 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C3.2-C3.5 (Typical Slope Protection Detail)
BINDING EDGE

BINDING EDGE



GRADING AND PAVING PLAN

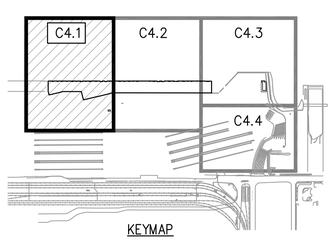
SCALE: 1"=40'

NOTES

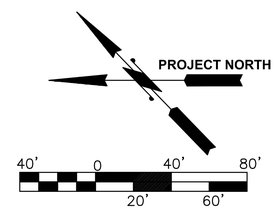
1. ALL SPOT ELEVATIONS REPRESENT TOP OF PAVEMENT.
2. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER SECTION 31 00 00 – EARTHWORK SPECIFICATION.
4. EXCAVATE TO SUBGRADE, PLACE AND COMPACT BASE COURSE AND PAVE WHERE ASPHALT PAVEMENT IS INDICATED.
5. SAWCUT AND APPLY TACK COAT AT ALL ASPHALT PAVEMENT JOINTS. APPLY TACK COAT AT LOCATIONS WHERE ASPHALT PAVEMENT IS PLACED AGAINST CONCRETE.
6. TOP OF FINISH GRADE OF PAVEMENT RESTORATION AREAS SHALL BE FLUSH WITH EXISTING PAVEMENT FOR SMOOTH TRANSITION AT PAVEMENT EDGES.
7. CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA AND REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, INCLUDING PAVEMENT.
8. ALL ELECTRICAL VAULTS SHALL BE SET SUCH THAT THERE IS POSITIVE DRAINAGE AWAY FROM THE VAULT LIDS. NO VAULTS SHALL BE SET PROUD OF THE ADJACENT PAVEMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- EXISTING GRADE CONTOUR
- FINISH GRADE CONTOUR
- ASPHALT PAVEMENT (1 / C4.8)
- ASPHALT PAVEMENT OVER NON-BALLAST PIER (2 / C4.8)
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT OVER BALLAST PIER (5 / C4.8)
- FLOW LINE
- RIDGE LINE
- STORM DRAINAGE STRUCTURES, SEE DRAINAGE DRAWINGS
- SPOT ELEVATION
- GROUND SLOPE
- CONCRETE TRAFFIC BARRIERS, SEE STRIPING AND FENCING DRAWINGS
- LIGHT POLE, SEE ELECTRICAL DRAWINGS
- ELECTRICAL AND COMMUNICATIONS VAULTS, SEE ELECTRICAL DRAWINGS
- ABOVE GROUND FIRE HYDRANT
- EXISTING STORM DRAIN LID/STRUCTURE
- FLUSH FIRE HYDRANT
- AS-BUILT PAVING LIMITS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:	CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR

PRINTED BY: kvang Jul 17, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING PLAN - SHEET 1

CONT/CONS:	070136	TOWNSHIP:		RANGE:		SECTION:
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:	AS NOTED	

6552
C4.1
SH 56 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.1-C4.2-C4.3-C4.4 (Grading and Paving Plan)

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.1-C4.2-C4.3-C4.4 (Grading and Paving Plan)

MATCH LINE SEE SHEET C4.1

MATCH LINE SEE SHEET C4.3

CRANE TIEDOWN TYP
SEE STRUCTURAL DRAWINGS

CRANE PINSOCKETS TYP
SEE STRUCTURAL DRAWINGS

FLOW LINE EL 16.74' FOR DECK
DRAINS FROM BENT 29 TO 71

INBOARD CRANE RAIL
EL. +17.00'

OUTBOARD CRANE RAIL
EL. +17.00'

PAVING AT 4" DECK
DRAIN TYP, SEE
STRUCTURAL DRAWINGS
FOR LOCATIONS

B C4.6

C C4.7

1 C4.9

17.00'

0.7%

1.2%

16.78'

16.80'

16.91'

16.85'

16.73'

16.68'

16.64'

16.50'

16.32'

16.48'

16.52'

16.51'

16.47'

16.42'

16.41'

16.5

16.0

±15.9'

±16.4'

±16.5

±16.6'

±17.0

±17.3'

±17.2'

±17.1

±17.0'

±17.7

17.0

17.16'

17.10'

17.5

0.5%

0.3%

1.0%

0.9%

1.1%

0.7%

0.8%

1.9%

1.3%

PROTECT-IN-PLACE
EXISTING CATCH BASINS

SEE ELECTRICAL
DRAWINGS FOR CENTER
LINE CONTROL OF TRENCH

SWITCHBOARD PAD 4 C4.9

A C4.9

GRADING AND PAVING PLAN

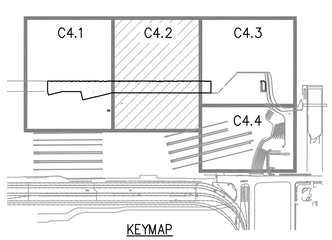
SCALE: 1"=40'

NOTES

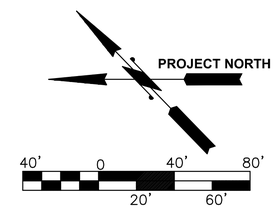
1. ALL SPOT ELEVATIONS REPRESENT TOP OF PAVEMENT.
2. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER SECTION 31 00 00 – EARTHWORK SPECIFICATION.
4. EXCAVATE TO SUBGRADE, PLACE AND COMPACT BASE COURSE AND PAVE WHERE ASPHALT PAVEMENT IS INDICATED.
5. SAWCUT AND APPLY TACK COAT AT ALL ASPHALT PAVEMENT JOINTS. APPLY TACK COAT AT LOCATIONS WHERE ASPHALT PAVEMENT IS PLACED AGAINST CONCRETE.
6. TOP OF FINISH GRADE OF PAVEMENT RESTORATION AREAS SHALL BE FLUSH WITH EXISTING PAVEMENT FOR SMOOTH TRANSITION AT PAVEMENT EDGES.
7. CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA AND REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, INCLUDING PAVEMENT.
8. ALL ELECTRICAL VAULTS SHALL BE SET SUCH THAT THERE IS POSITIVE DRAINAGE AWAY FROM THE VAULT LIDS. NO VAULTS SHALL BE SET PROUD OF THE ADJACENT PAVEMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- EXISTING GRADE CONTOUR (17)
- FINISH GRADE CONTOUR (17)
- ASPHALT PAVEMENT — 1 C4.8
- ASPHALT PAVEMENT OVER NON-BALLAST PIER — 2 C4.8
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT OVER BALLAST PIER — 5 C4.8
- FLOW LINE
- RIDGE LINE
- STORM DRAINAGE STRUCTURES, SEE DRAINAGE DRAWINGS
- SPOT ELEVATION (16.43')
- GROUND SLOPE (0.5%)
- CONCRETE TRAFFIC BARRIERS, SEE STRIPING AND FENCING DRAWINGS
- LIGHT POLE, SEE ELECTRICAL DRAWINGS
- ELECTRICAL AND COMMUNICATIONS VAULTS, SEE ELECTRICAL DRAWINGS
- ABOVE GROUND FIRE HYDRANT
- EXISTING STORM DRAIN LID/STRUCTURE
- FLUSH FIRE HYDRANT
- AS-BUILT PAVING LIMITS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY | DATE
PROJ. ENGR | Jul 17, 2018
PRINTED BY: smillett
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING PLAN - SHEET 2

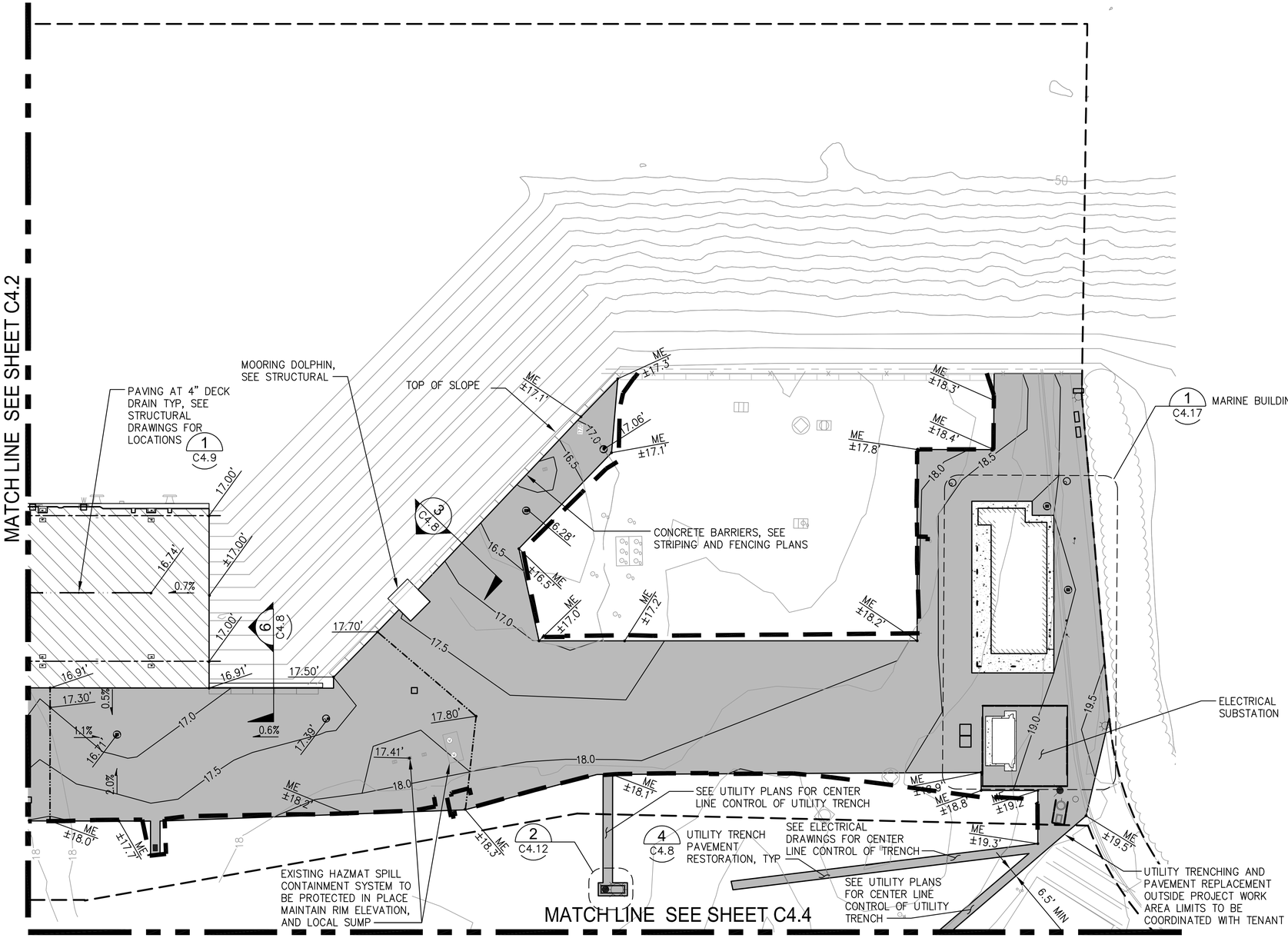
CONT/CONS:	0701.36	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

6552
C4.2
SH 57 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.1-C4.2-C4.3-C4.4 (Grading and Paving Plan)



GRADING AND PAVING PLAN

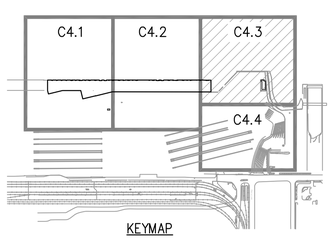
SCALE: 1"=40'

NOTES

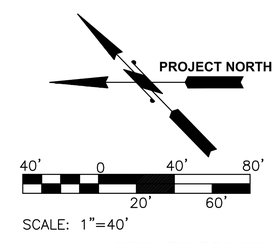
1. ALL SPOT ELEVATIONS REPRESENT TOP OF PAVEMENT.
2. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER SECTION 31 00 00 – EARTHWORK SPECIFICATION.
4. EXCAVATE TO SUBGRADE, PLACE AND COMPACT BASE COURSE AND PAVE WHERE ASPHALT PAVEMENT IS INDICATED.
5. SAWCUT AND APPLY TACK COAT AT ALL ASPHALT PAVEMENT JOINTS. APPLY TACK COAT AT LOCATIONS WHERE ASPHALT PAVEMENT IS PLACED AGAINST CONCRETE.
6. TOP OF FINISH GRADE OF PAVEMENT RESTORATION AREAS SHALL BE FLUSH WITH EXISTING PAVEMENT FOR SMOOTH TRANSITION AT PAVEMENT EDGES.
7. CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA AND REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, INCLUDING PAVEMENT.
8. ALL ELECTRICAL VAULTS SHALL BE SET SUCH THAT THERE IS POSITIVE DRAINAGE AWAY FROM THE VAULT LIDS. NO VAULTS SHALL BE SET PROUD OF THE ADJACENT PAVEMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- 17 EXISTING GRADE CONTOUR
- 17 FINISH GRADE CONTOUR
- ASPHALT PAVEMENT (1 C4.8)
- ASPHALT PAVEMENT OVER NON-BALLAST PIER (2 C4.8)
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT OVER BALLAST PIER (5 C4.8)
- FLOW LINE
- RIDGE LINE
- STORM DRAINAGE STRUCTURES, SEE DRAINAGE DRAWINGS
- 16.43' SPOT ELEVATION
- 0.5% GROUND SLOPE
- CONCRETE TRAFFIC BARRIERS, SEE STRIPING AND FENCING DRAWINGS
- LIGHT POLE, SEE ELECTRICAL DRAWINGS
- ELECTRICAL AND COMMUNICATIONS VAULTS, SEE ELECTRICAL DRAWINGS
- ABOVE GROUND FIRE HYDRANT
- EXISTING STORM DRAIN LID/STRUCTURE
- FLUSH FIRE HYDRANT
- AS-BUILT PAVING LIMITS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2539538681

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING PLAN - SHEET 3

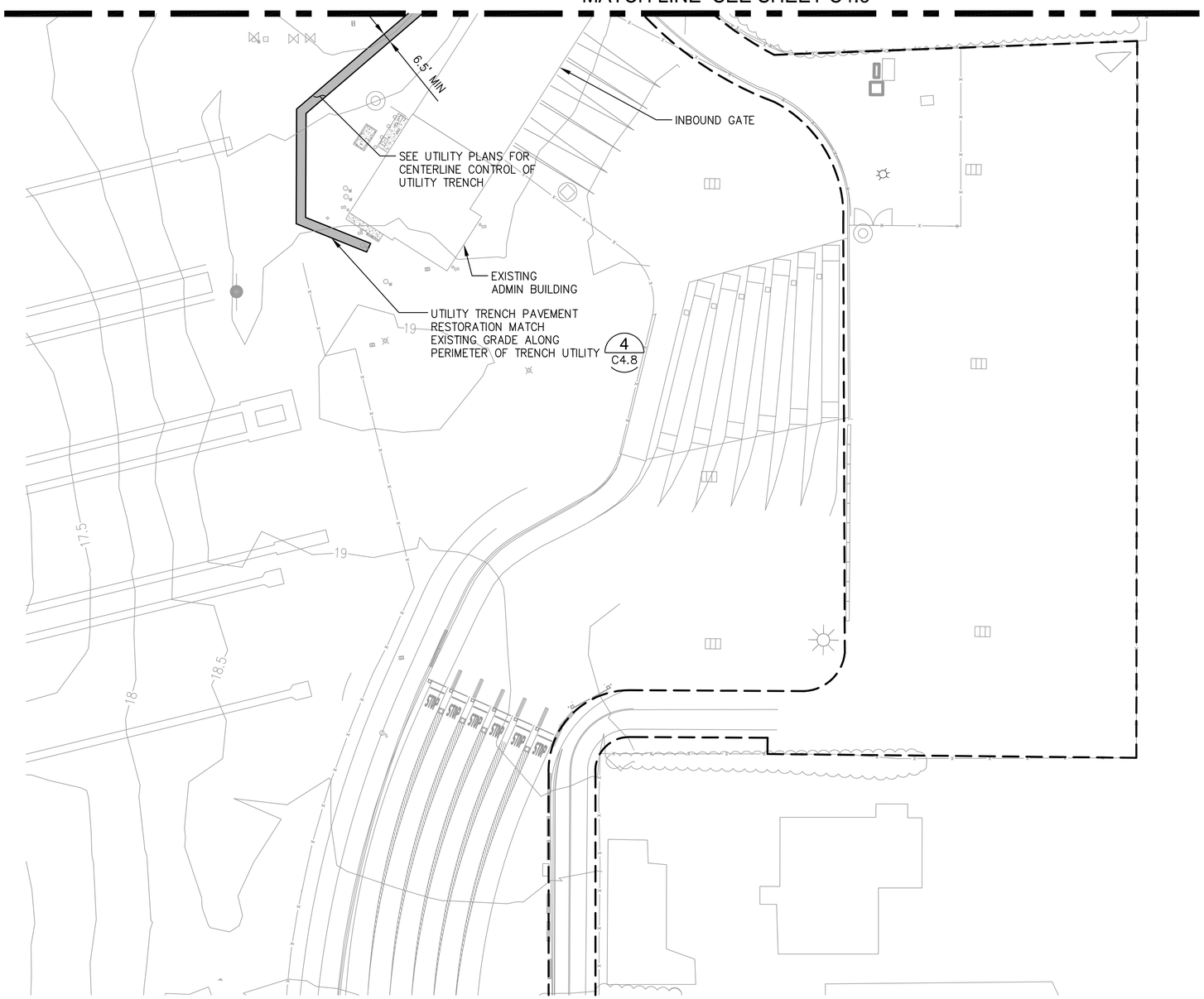
6552
C4.3
SH 58 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul 17, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PROJ. ENGR PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.1-C4.2-C4.3-C4.4 (Grading and Paving Plan)



GRADING AND PAVING PLAN

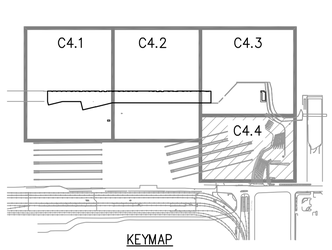
SCALE: 1"=40'

NOTES

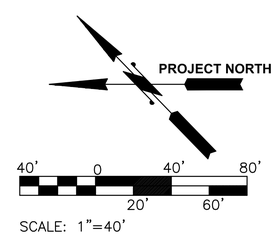
1. ALL SPOT ELEVATIONS REPRESENT TOP OF PAVEMENT.
2. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER SECTION 31 00 00 – EARTHWORK SPECIFICATION.
4. EXCAVATE TO SUBGRADE, PLACE AND COMPACT BASE COURSE AND PAVE WHERE ASPHALT PAVEMENT IS INDICATED.
5. SAWCUT AND APPLY TACK COAT AT ALL ASPHALT PAVEMENT JOINTS. APPLY TACK COAT AT LOCATIONS WHERE ASPHALT PAVEMENT IS PLACED AGAINST CONCRETE.
6. TOP OF FINISH GRADE OF PAVEMENT RESTORATION AREAS SHALL BE FLUSH WITH EXISTING PAVEMENT FOR SMOOTH TRANSITION AT PAVEMENT EDGES.
7. CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA AND REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, INCLUDING PAVEMENT.
8. ALL ELECTRICAL VAULTS SHALL BE SET SUCH THAT THERE IS POSITIVE DRAINAGE AWAY FROM THE VAULT LIDS. NO VAULTS SHALL BE SET PROUD OF THE ADJACENT PAVEMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- EXISTING GRADE CONTOUR (17)
- FINISH GRADE CONTOUR (17)
- ASPHALT PAVEMENT (1 / C4.8)
- ASPHALT PAVEMENT OVER NON-BALLAST PIER (2 / C4.8)
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT OVER BALLAST PIER (5 / C4.8)
- FLOW LINE
- RIDGE LINE
- STORM DRAINAGE STRUCTURES, SEE DRAINAGE DRAWINGS
- SPOT ELEVATION (16.43')
- GROUND SLOPE (0.5%)
- CONCRETE TRAFFIC BARRIERS, SEE STRIPING AND FENCING DRAWINGS
- LIGHT POLE, SEE ELECTRICAL DRAWINGS
- ELECTRICAL AND COMMUNICATIONS VAULTS, SEE ELECTRICAL DRAWINGS
- ABOVE GROUND FIRE HYDRANT
- EXISTING STORM DRAIN LID/STRUCTURE
- FLUSH FIRE HYDRANT
- AS-BUILT PAVING LIMITS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING PLAN - SHEET 4

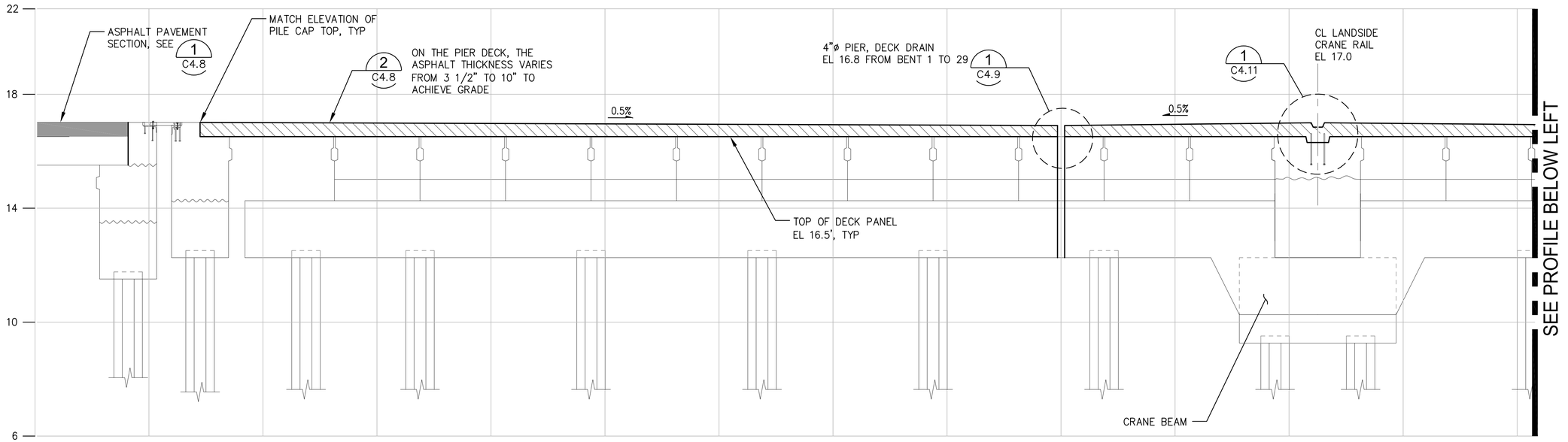
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

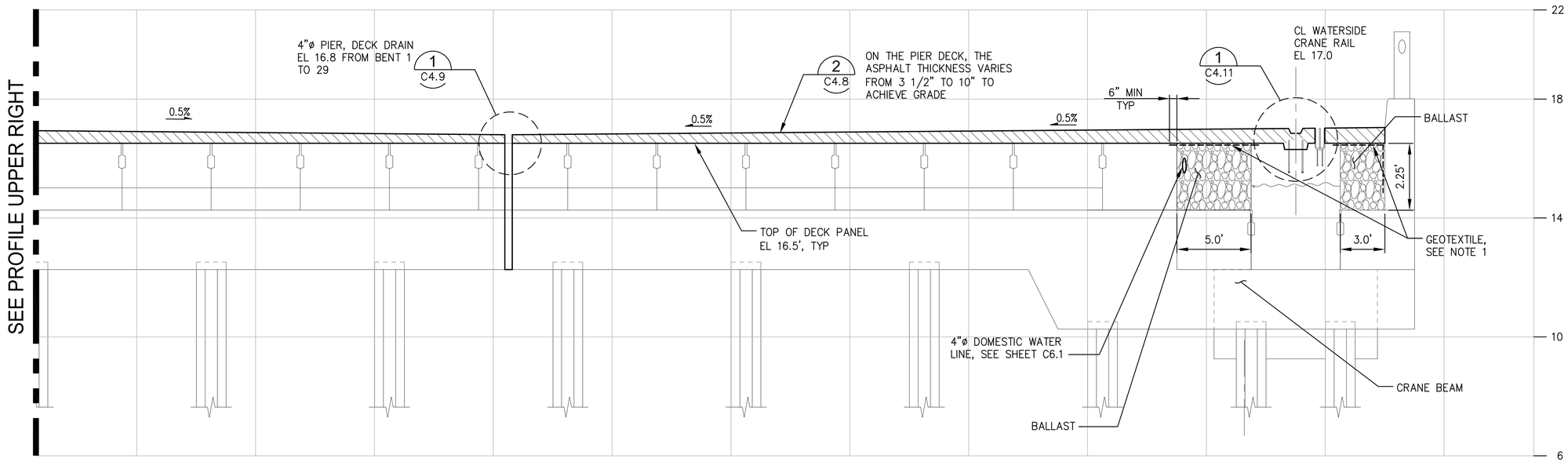
PRINTED BY: smillett Jul 17, 2018 PROJ. ENGR DATE
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
C4.4
SH 59 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE





NOTES

1. GEOTEXTILE SHALL BE PETROMAT 4598 BY PROPEX OR APPROVED EQUAL. GEOTEXTILE SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS BENEATH ASPHALT PAVEMENT AND OVER PIPE ZONE BEDDING/CONCRETE.

A C4.1 **GRADING SECTION**
SCALE: HORIZ: 1"=4', VERT: 1"=2'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY

DIRECTOR ENG. DATE PROJ. ENGR

PRINTED BY: smillett Jul 19, 2018

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING SECTIONS - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

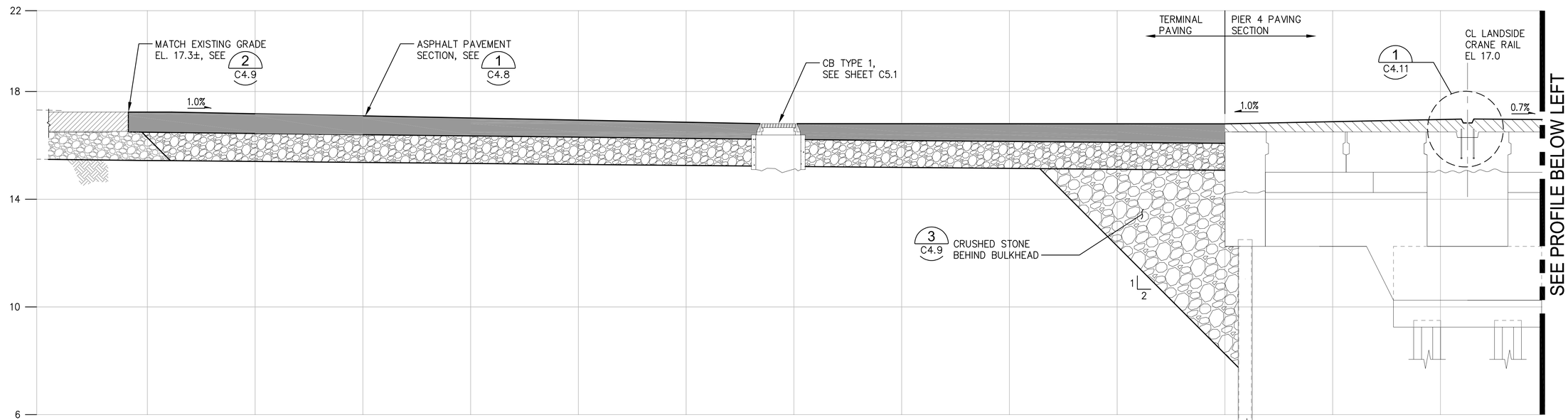
SECTION:

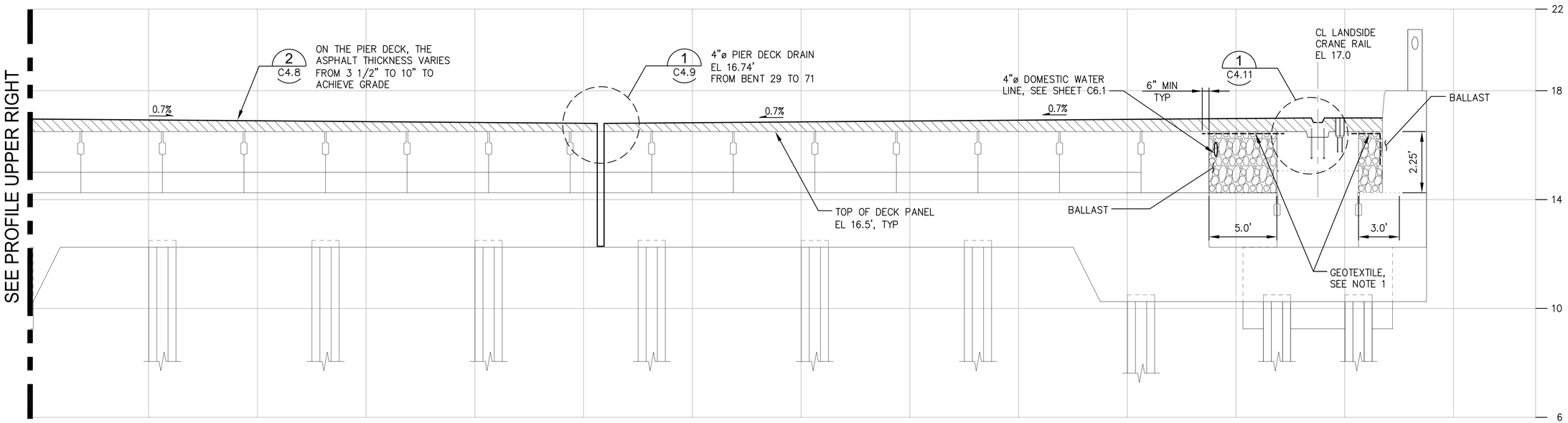
6552
C4.5
SH 60 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.5-C4.6-C4.7 (Grading and Paving Sections - Sheet 1)

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.5-C4.6-C4.7 (Grading and Paving Sections - Sheet 1).dgn
BINDING EDGE





NOTES

1. GEOTEXTILE SHALL BE PETROMAT 4598 BY PROPEX OR APPROVED EQUAL. GEOTEXTILE SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS BENEATH ASPHALT PAVEMENT AND OVER PIPE ZONE BEDDING/CONCRETE.

B C4.2 **GRADING SECTION**
SCALE: HORIZ: 1"=4', VERT: 1"=2'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535535841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:
DIRECTOR ENG. DATE
CHECKED BY DATE

PIER 4 PHASE 2 RECONFIGURATION
GRADING AND PAVING SECTIONS - SHEET 2

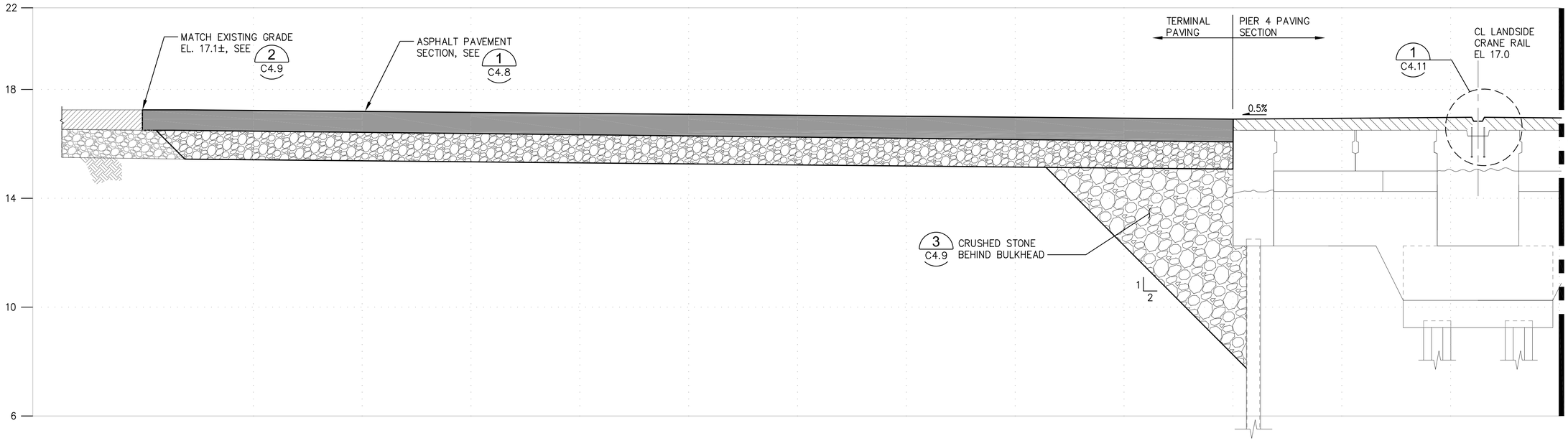
6552
C4.6
SH 61 OF 499

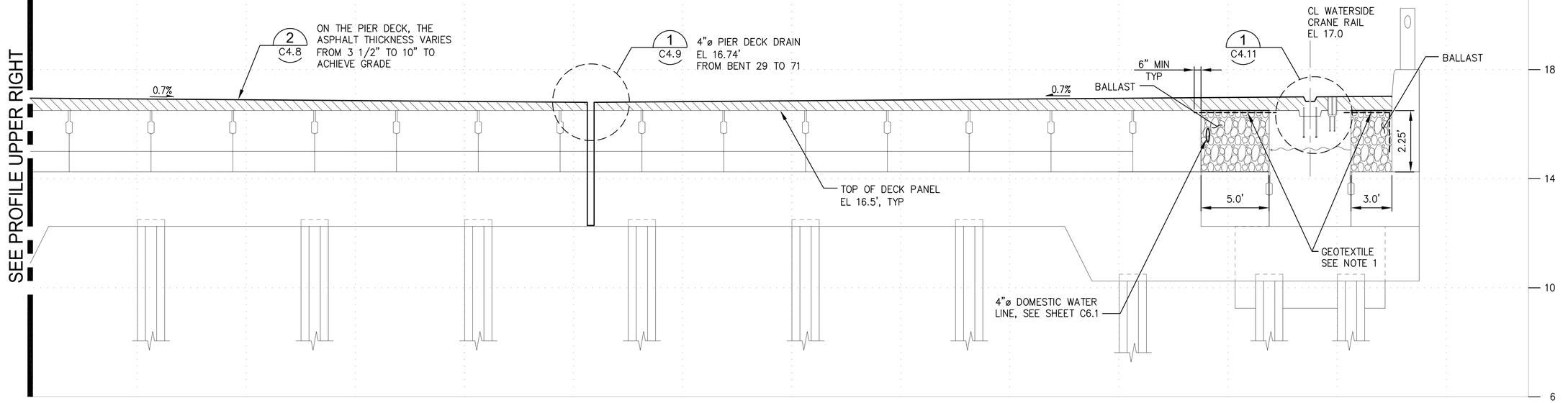
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PROJ. ENGR DATE
PRINTED BY: smillett Jul 19, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837
SECTION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE





NOTES

1. GEOTEXTILE SHALL BE PETROMAT 4598 BY PROPEX OR APPROVED EQUAL. GEOTEXTILE SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS BENEATH ASPHALT PAVEMENT AND OVER PIPE ZONE BEDDING/CONCRETE.

C C4.2 **GRADING SECTION**
SCALE: HORIZ: 1"=4', VERT: 1"=2'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:
DIRECTOR ENG. DATE
CHECKED BY DATE

PIER 4 PHASE 2 RECONFIGURATION
GRADING AND PAVING SECTIONS- SHEET 3

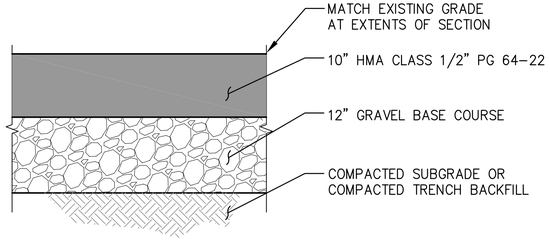
6552
C4.7
SH 62 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PROJ. ENGR DATE
PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837
SECTION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

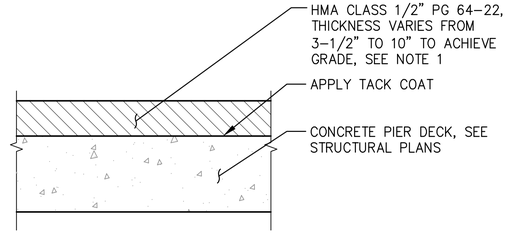
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.5-C4.6-C4.7 (Grading and Paving Sections - Sheet 1)



ASPHALT PAVEMENT SECTION

1 — C1.4, C4.1 TO C4.3, C4.5 TO C4.9, C4.17 TO C4.20, C5.9 TO C5.12, C6.8, C6.9, C6.10

NTS



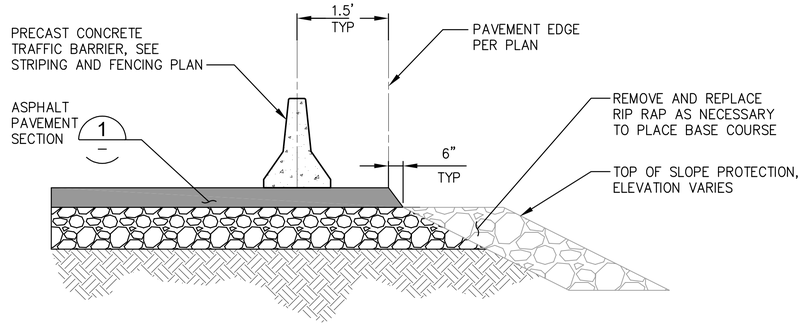
NOTES:

1. AT THE ISOLATION JOINTS BETWEEN PIER 3 AND PIER 4 HMA THICKNESS INCREASES TO AS MUCH AS 10". TYPICALLY ACP THICKNESS VARIES FROM 3-1/2" TO 6", SEE GRADING PLAN C4.1 FOR SPOT ELEVATIONS.

PIER ASPHALT PAVEMENT SECTION

2 — C4.1 TO C4.3, C4.5 TO C4.7, C4.9 & C4.10

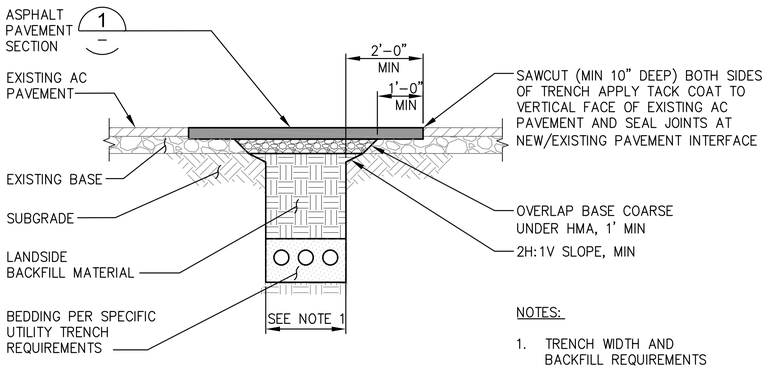
NTS



TYPICAL PAVEMENT EDGE SECTION

3 — C4.3, C7.3

NTS



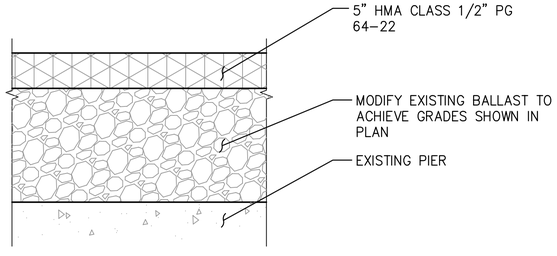
NOTES:

1. TRENCH WIDTH AND BACKFILL REQUIREMENTS PER DRAINAGE PLANS, UTILITY PLANS, AND ELECTRICAL DRAWINGS.

UTILITY TRENCH PAVEMENT RESTORATION

4 — C4.1, C4.2, C4.3, C4.4

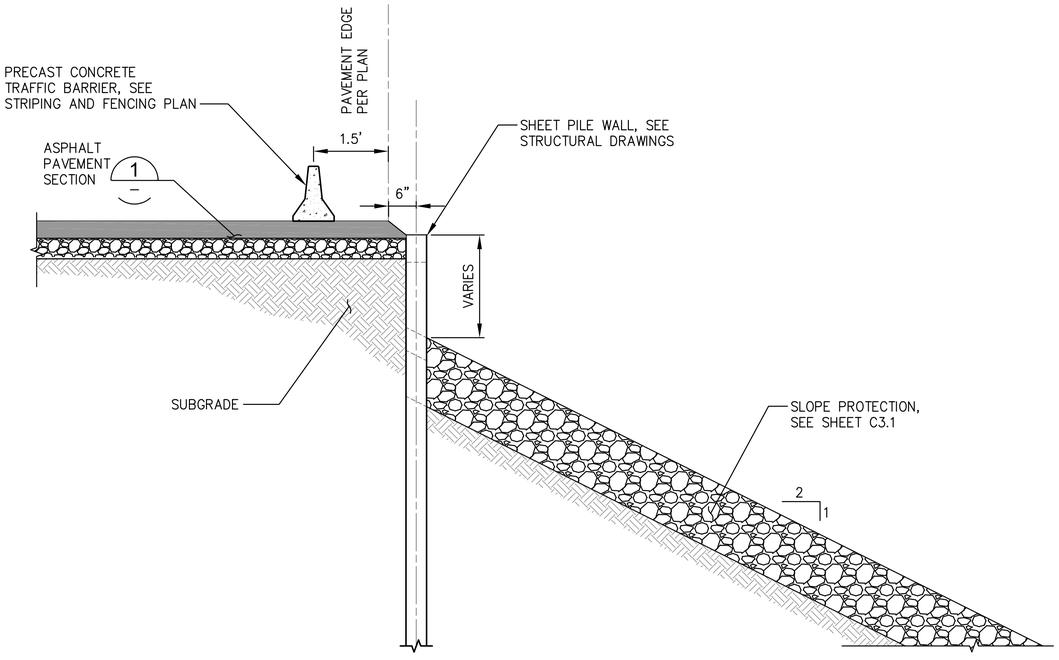
NTS



PIER ASPHALT OVER BALLAST PAVEMENT SECTION

5 — C4.1

NTS



SECTION AT SHEETPILE RETAINING WALL

6 — C4.3, C7.3

NTS

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.8 (Grading and Paving Details - Sheet 1)

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		
ENG. DATE		
PRINTED BY:	smillett Jul 16, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
GRADING AND PAVING DETAILS - SHEET 1

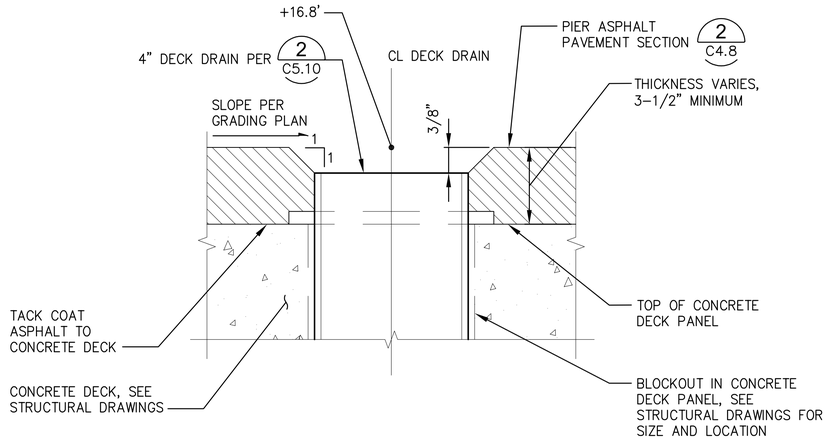
TOWNSHIP:		RANGE:	
SECTION:			
DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:		DRAWING SCALE:	AS NOTED

6552
C4.8
SH 63 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

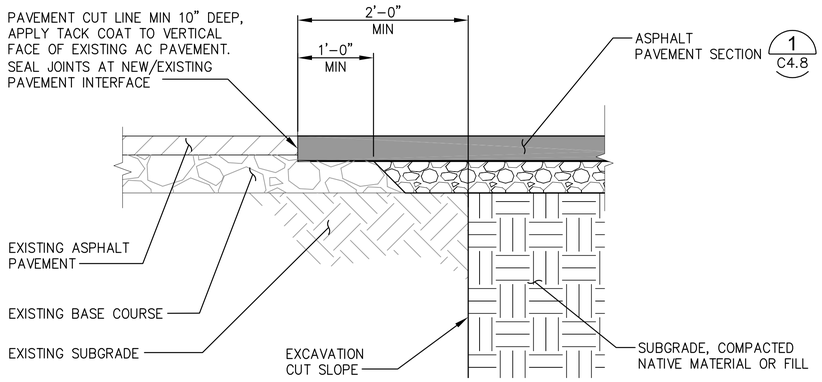
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS



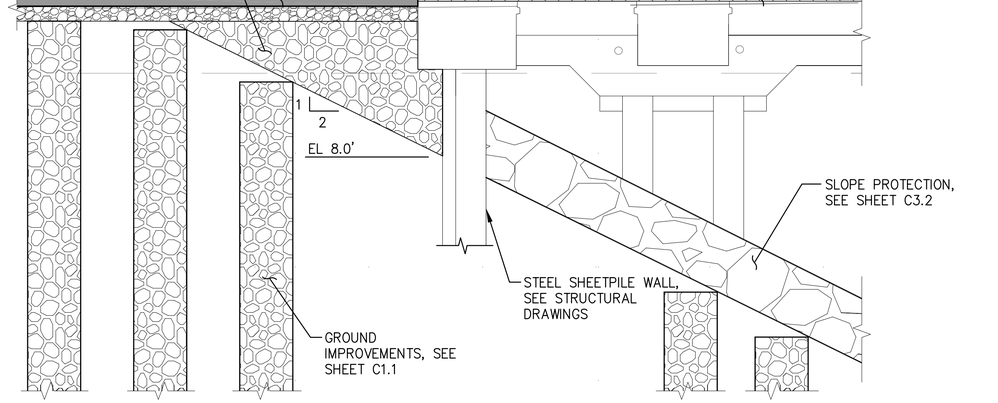
1 ASPHALT PAVING AT DECK DRAIN

C4.1 TO C4.7, C5.10 NTS



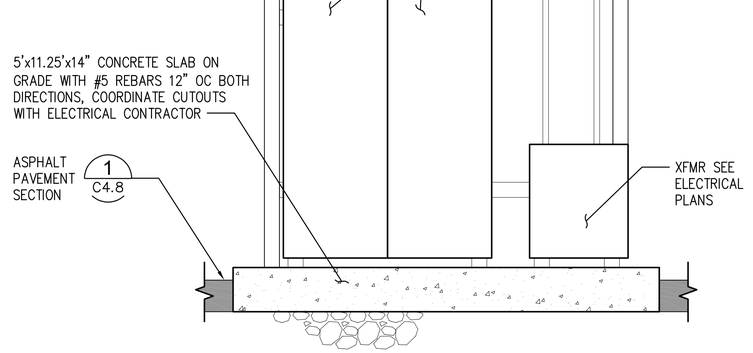
2 MATCH EXISTING PAVEMENT DETAIL

C4.6, C4.7, C4.18, C4.19 NTS



3 CRUSHED STONE BEHIND BULKHEAD

C1.4, C3.2, C3.3, C4.6, C4.7 SCALE: 1"=5'



4 SWITCHBOARD PAD DETAIL

C4.2 NTS

RECORD DRAWINGS

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.9-C4.10 (Grading and Paving Details - Sheet 2)
BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING DETAILS - SHEET 2

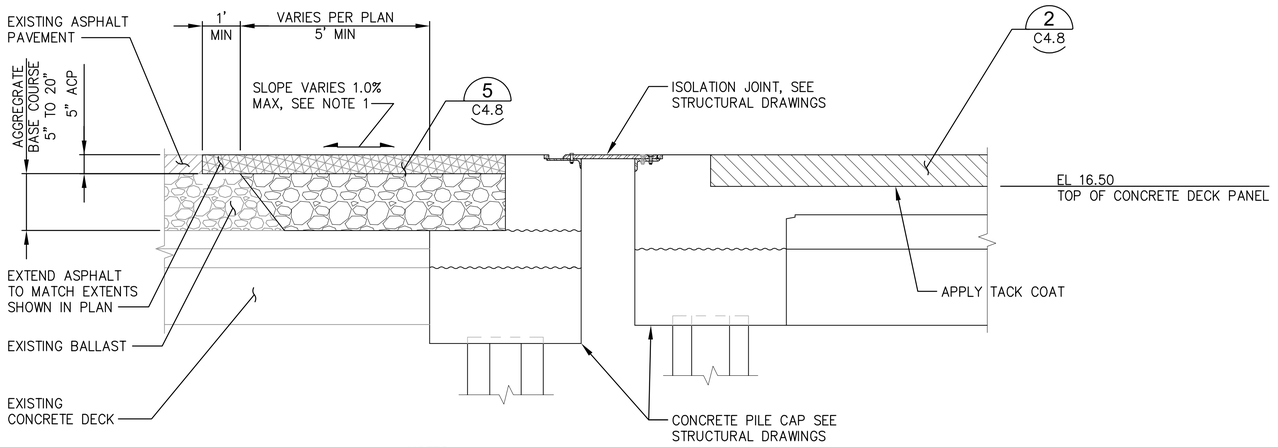
PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:	PROJ. ENGR DATE
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933		
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED		

6552
C4.9
SH 64 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS



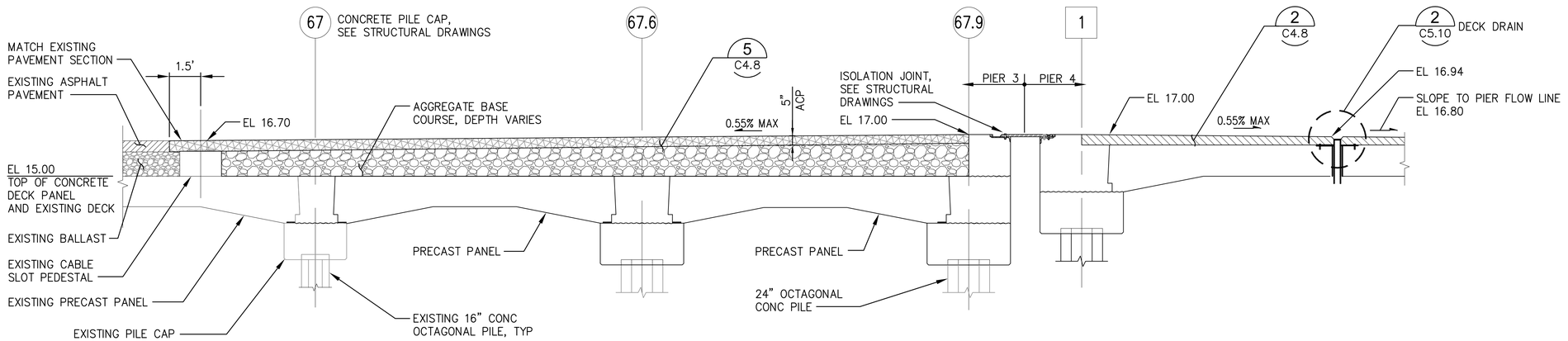
NOTES:

1. CONTRACTOR TO FIELD VERIFY SLOPE REQUIRED TO CONNECT TO EXISTING ASPHALT. IF ANTICIPATED SLOPE TO EXCEED SLOPES SHOWN IN PLAN AND SECTION, CONTRACTOR SHALL NOTIFY ENGINEER.

A — ASPHALT SECTION AT ISOLATION JOINT

A / C4.1

SCALE: NTS



NOTES:

1. CONTRACTOR TO FIELD VERIFY SLOPE REQUIRED TO CONNECT TO EXISTING ASPHALT. IF ANTICIPATED SLOPE TO EXCEED SLOPES SHOWN IN PLAN AND SECTION, CONTRACTOR SHALL NOTIFY ENGINEER.

B — ASPHALT SECTION AT PIER 3/4 TRANSITION

B / C4.1

SCALE: NTS

RECORD DRAWINGS

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.9-C4.10 (Grading and Paving Details - Sheet 2)

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353641

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

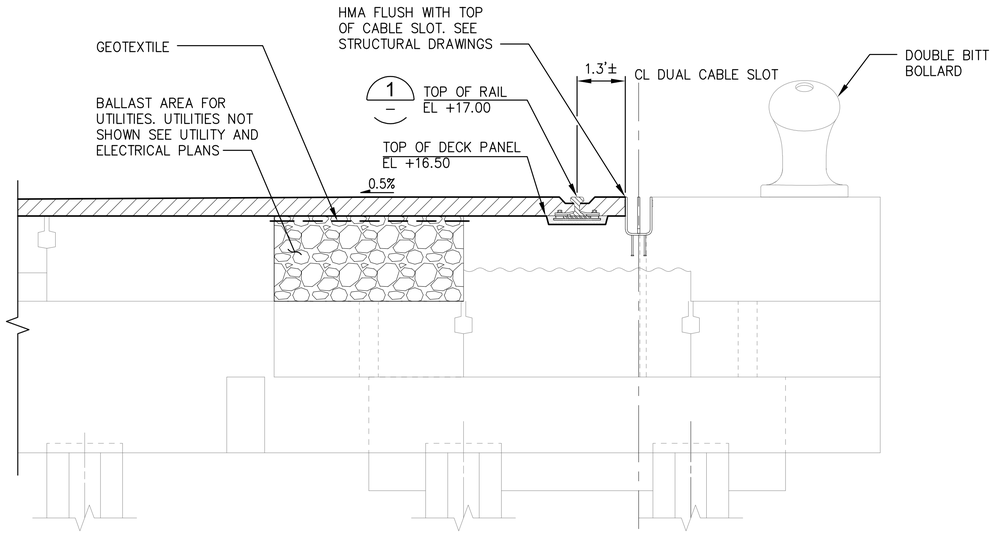
PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING DETAILS - SHEET 3

PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
C4.10
SH 65 OF 499

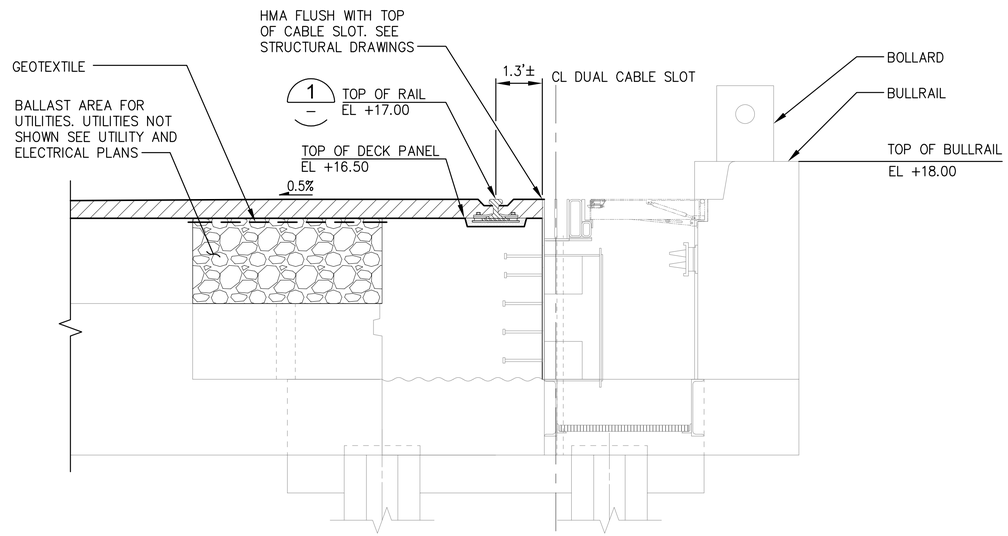
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



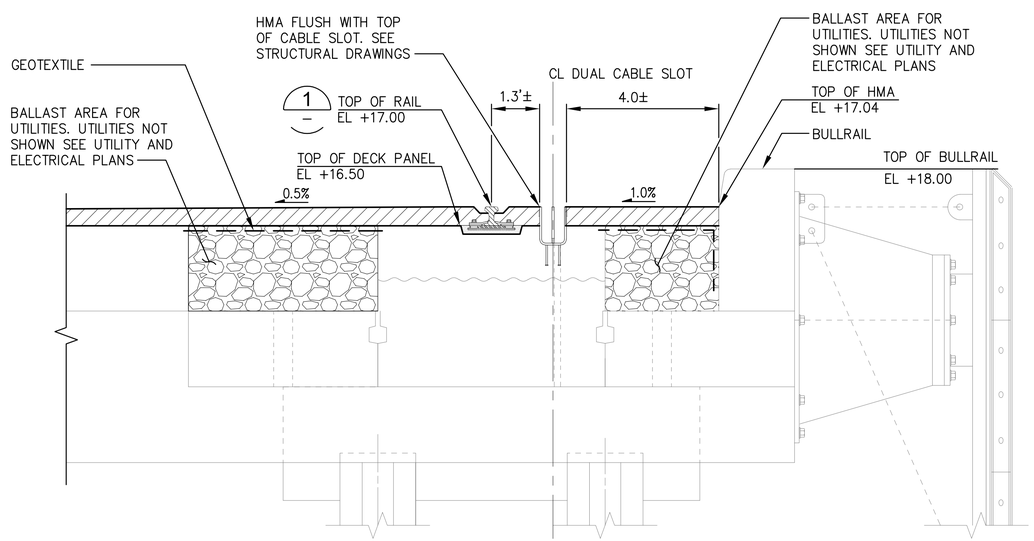
A PAVEMENT SECTION AT BOLLARDS

C4.1 NTS



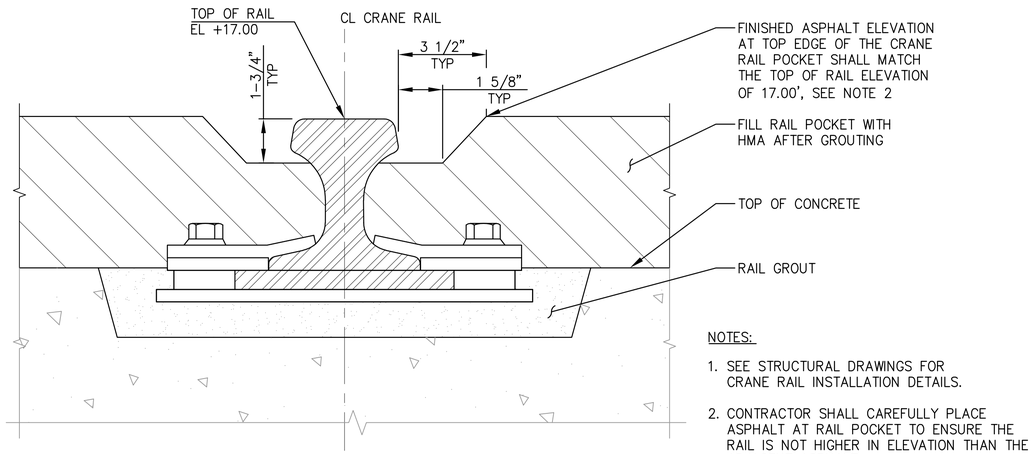
C PAVEMENT SECTION AT CRANE POWER VAULT

C4.1 NTS



B PAVEMENT SECTION AT BULLRAIL

C4.1 NTS



NOTES:

1. SEE STRUCTURAL DRAWINGS FOR CRANE RAIL INSTALLATION DETAILS.
2. CONTRACTOR SHALL CAREFULLY PLACE ASPHALT AT RAIL POCKET TO ENSURE THE RAIL IS NOT HIGHER IN ELEVATION THAN THE ADJACENT ASPHALT.

1 PAVEMENT AT CRANE RAIL

C4.5, C4.6, C4.7 NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
GRADING AND PAVING DETAILS - SHEET 4

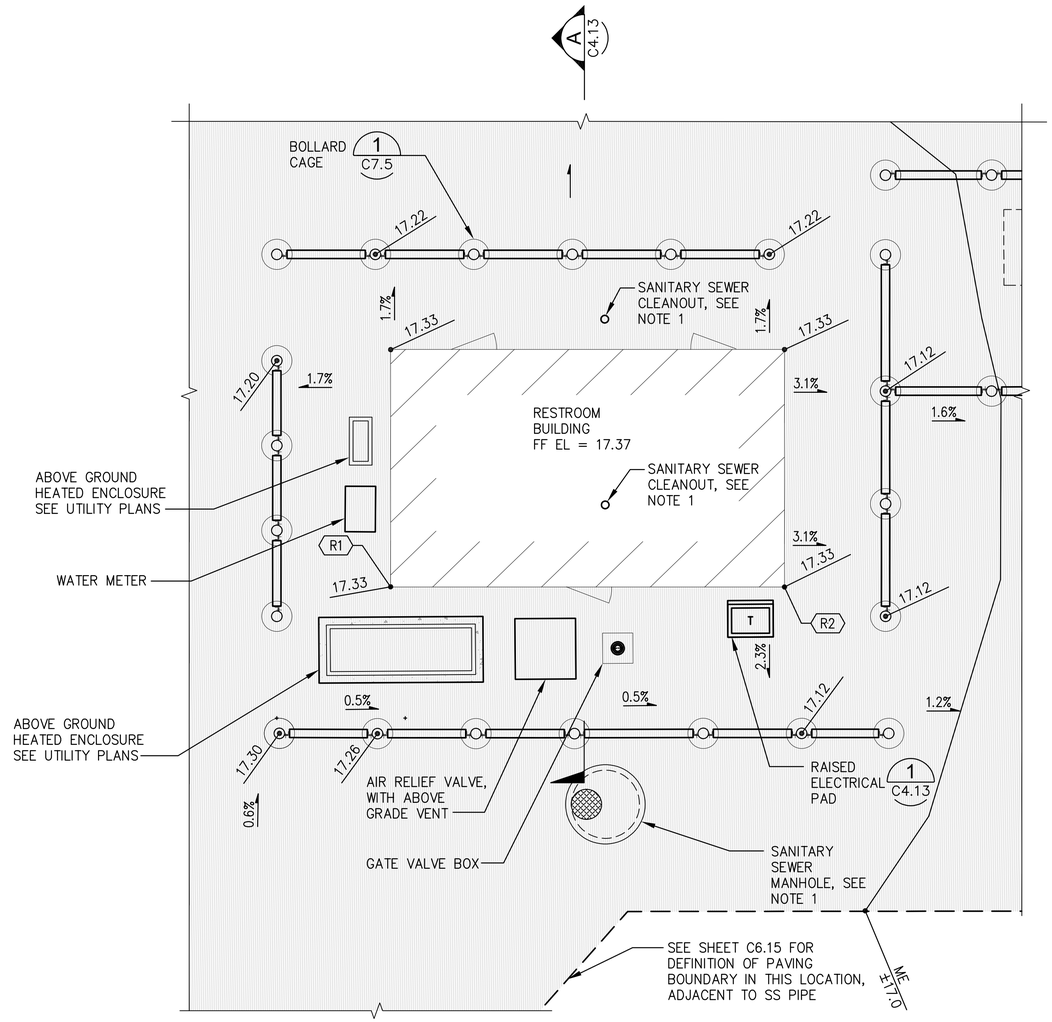
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

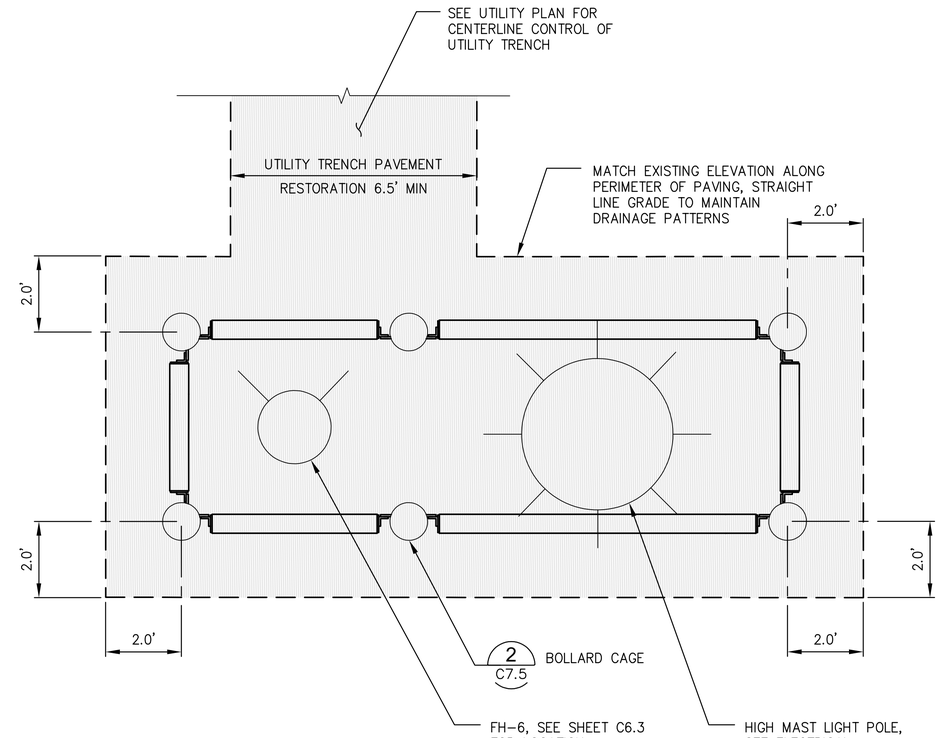
PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

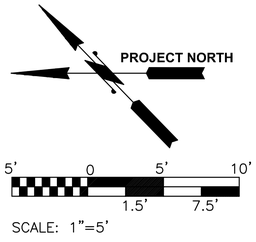
6552
C4.11
SH 66 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.11 (Grading and Paving Details - Sheet 4)
BINDING EDGE







SCALE: 1"=5'

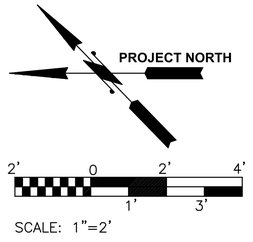
1 C4.1 ENLARGED RESTROOM BLDG GRADING PLAN

SCALE: 1"= 5'

NOTES:

1. SEE UTILITY PLANS AND PROFILES FOR LOCATION AND SIZING OF UTILITY STRUCTURES.

RESTROOM BUILDING HORIZONTAL CONTROL		
POINT ID	NORTHING	EASTING
R1	713029.26	1166617.46
R2	713011.16	1166636.14



SCALE: 1"=2'

2 – PAVING AT BOLLARD CAGE

SCALE: 1"= 2'

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PRINTED BY:	smillett	Jul 19, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
SITE ENLARGED GRADING PLANS

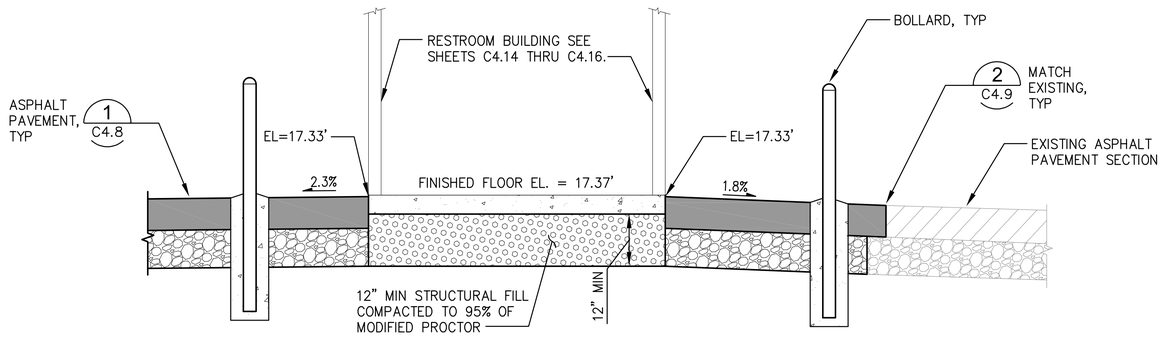
CONT/CONS:	070136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

6552
C4.12
SH 67 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

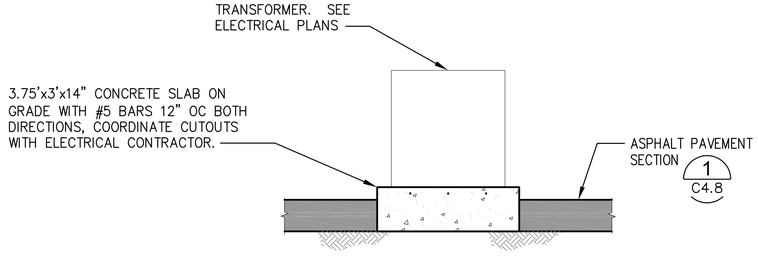
BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.12 (RR Bldg Partial Plan)



RESTROOM BUILDING GRADING SECTION

A / C4.12 — SCALE: HORIZ: 1"=4', VERT: 1"=2'



RAISED ELECTRICAL PAD

1 / C4.12 — NTS

NOTES

1. THE RESTROOM BUILDING IS A PREMANUFACTURED CONCRETE STRUCTURE THAT WILL BE PROCURED SEPARATELY BY THE PORT. PROCUREMENT AND PLACEMENT OF THE BUILDING ARE NOT INCLUDED IN THE CONTRACT. THE DRAWINGS INCLUDED ON SHEETS C4.15 AND C4.16 ARE FOR REFERENCE ONLY AND ARE ONLY INTENDED TO PROVIDE INFORMATION REGARDING THE BUILDING THAT WILL BE INSTALLED.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SUB-BASE PREPARATION AND UTILITY WORK REQUIRED TO SET RESTROOM BUILDING. THE MANUFACTURER IS RESPONSIBLE FOR SETTING THE BUILDING AND CONNECTION TO THE CONTRACTOR PROVIDED UTILITY STUBS. SEE DRAWING C6.15 FOR REQUIRED UTILITY WORK.
3. SPECIAL WORK RESTRICTIONS APPLY TO WORK ASSOCIATED WITH PREPARATION OF SUBGRADE AND INSTALLATION OF UTILITIES FOR THE RESTROOM BUILDING. SEE SPECIFICATIONS SECTIONS 01 14 00 – WORK RESTRICTIONS.
4. THIS FACTORY ASSEMBLED BUILDING AS CONSTRUCTED PROVIDES A RIGID BOX TYPE STRUCTURAL SYSTEM. VERTICAL LOADS ARE TRANSFERRED PRIMARILY THROUGH BEARING WALLS TO A PREPARED GRANULAR SUB-BASE WHICH DISSIPATES VERTICAL LOADS UNIFORMLY TO THE NATIVE SUBGRADE AND ALSO ACTS AS A FROST BARRIER.
5. A FULL DEPTH FOUNDATION WALL AT THE BUILDING PERIMETER, TYPICAL FOR OTHER TYPES OF BUILDING CONSTRUCTION, IS NOT REQUIRED FOR THIS BUILDING.

LEGEND

- EXISTING ASPHALT PAVEMENT
- AGGREGATE BASE COURSE
- ASPHALT PAVEMENT
- COMPACTED SUBBASE
- CONCRETE

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		

PIER 4 PHASE 2
RECONFIGURATION
RESTROOM BUILDING DETAILS - SHEET 1

PRINTED BY:	smillett Jul 17, 2018	TOWNSHIP:	
PORT ADDRESS:	ONE SITCUM PLAZA	RANGE:	
	TACOMA, WA 98401-1837	SECTION:	
DRAWING SCALE:	AS NOTED	VERT:	MLLW 19.39' @ Tide 22 1933
		DAT-HRZ:	WA83-SF
		PARCEL:	

6552
C4.13
SH 68 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

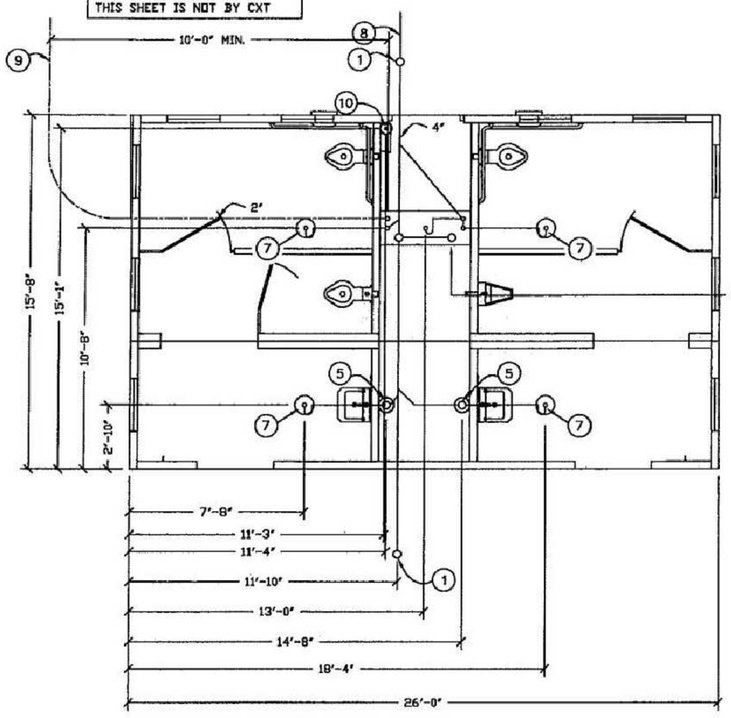
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.13-C4.14-C4.15-C4.16

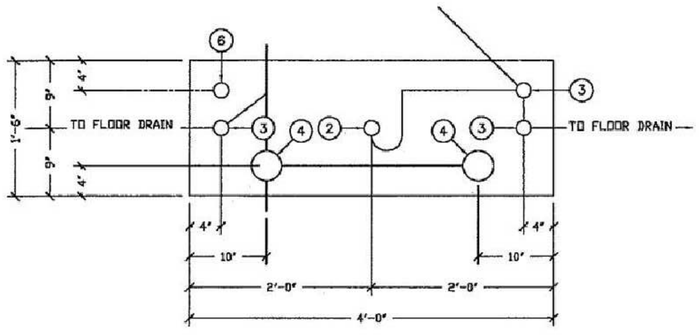
BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.13-C4.14-C4.15-C4.16

ALL PIPING INDICATED ON THIS SHEET IS NOT BY CXT



FLOOR DRAIN BLOCKOUTS & BELOW FLOOR PIPING



18" x 48" BLOCKOUT DETAIL 'A'

FOR REFERENCE ONLY

PIPING LEGEND

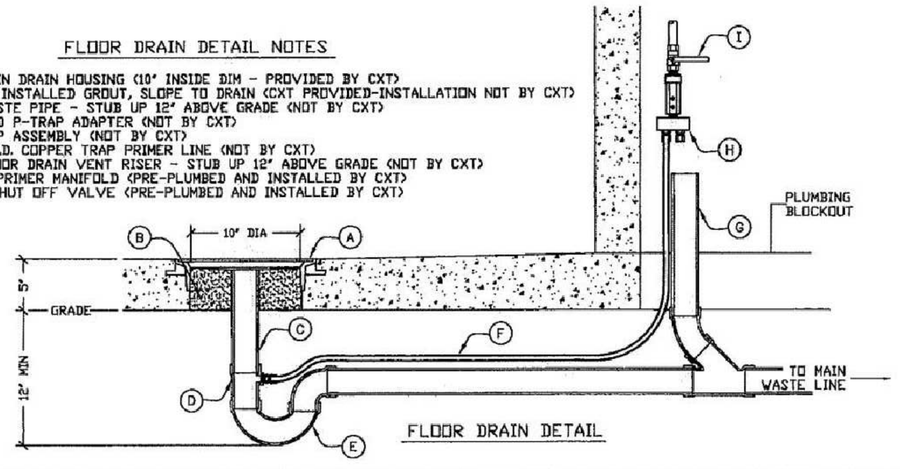
- BELOW FLOOR WASTE PIPING SCH 40 ABS TYPE DWV
- 2" TYPE 'K' ANNEALED 'SOFT' COPPER WATER SERVICE
- BELOW FLOOR VENT PIPING SCH 40 ABS TYPE DWV

BELOW FLOOR PIPING - KEY NOTES

1. 4" CLEAN OUT TO GRADE.
2. 2" FLOOR DRAIN. FIELD INSTALLED TRAP PRIMER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (1'-6"x4'0" BLOCKOUT)
3. 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (1'-6"x4'0" BLOCKOUT)
4. 4" WASTE PIPE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (1'-6"x4'0" BLOCKOUT)
5. 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (8"ø BLOCKOUT)
6. 2" TYPE K ANNEALED "SOFT" COPPER WATER SERVICE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE CAP AT END. (1'-6"x4'0" BLOCKOUT)
7. 2" FLOOR DRAIN. FIELD INSTALLED TRAP PRIMER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (10"ø BLOCKOUT)
8. 90° MIN. BURY, PROVIDE TRACER TAPE.
9. MIN. BURY PER LOCAL REQUIREMENTS TO PROTECT AGAINST FREEZING AND DAMAGE.
10. ELECTRICAL STUB UP, (6"ø BLOCKOUT)

FLOOR DRAIN DETAIL NOTES

A. CAST-IN DRAIN HOUSING (10" INSIDE DIM - PROVIDED BY CXT)
B. FIELD INSTALLED GROUT, SLOPE TO DRAIN (CXT PROVIDED-INSTALLATION NOT BY CXT)
C. 2" WASTE PIPE - STUB UP 12" ABOVE GRADE (NOT BY CXT)
D. TAPPED P-TRAP ADAPTER (NOT BY CXT)
E. P-TRAP ASSEMBLY (NOT BY CXT)
F. 1/2" O.D. COPPER TRAP PRIMER LINE (NOT BY CXT)
G. 2" FLOOR DRAIN VENT RISER - STUB UP 12" ABOVE GRADE (NOT BY CXT)
H. TRAP PRIMER MANIFOLD (PRE-PLUMBED AND INSTALLED BY CXT)
I. 1/2" SHUT OFF VALVE (PRE-PLUMBED AND INSTALLED BY CXT)



FLOOR DRAIN DETAIL

ALL PIPING INDICATED ON THIS SHEET IS NOT BY CXT

CARL A. DEMETER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

STRUCTURAL DESIGN & MANAGEMENT, INC.
11328 W. Coal Mine Drive, Littleton, CO 80127
Phone: (303) 972-6512 Fax: (719) 600-6431
Carl A. Demeter SE., PE. cacemeter@comcast.net

3808 N. Sullivan Bldg. #7 Spokane, WA 99216
CXT Precast Products
901 N. Highway 77 Hillsboro, TX 76645

MONTROSE
BUILDING NUMBER M-282

NOTICE
The information contained herein is proprietary and the exclusive property of CXT Incorporated. The information may only be used by the original recipient for the purpose intended. Reproduction or distribution of this information is strictly prohibited without the prior written consent of CXT Incorporated. By viewing any of this information, CXT Incorporated grants no warranty, express or implied, including a warranty of merchantability or of fitness for a particular purpose.
CXT Incorporated

NO.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"	DATE	09-06-16
DRAWN	DWG B	FILE NO.	M-282
CHECKED	EDW	PLOT	84

FLOOR DRAIN LOCATIONS & BELOW FLOOR PIPING

DWG NO.	SHEET	REV.
M-28	28 / 34	

1 C4.1 **RESTROOM BUILDING UTILITY CONNECTIONS**
NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

APPROVED:

DIRECTOR ENG. DATE PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
RESTROOM BUILDING DETAILS - SHEET 2

6552
C4.14
SH 69 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	

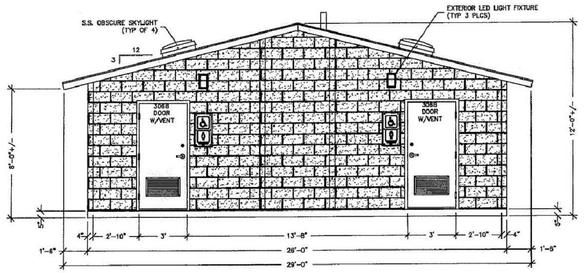
SECTION:
VERT: MLLW 19.39' @ Tide 22 1933
DRAWING SCALE: AS NOTED

PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

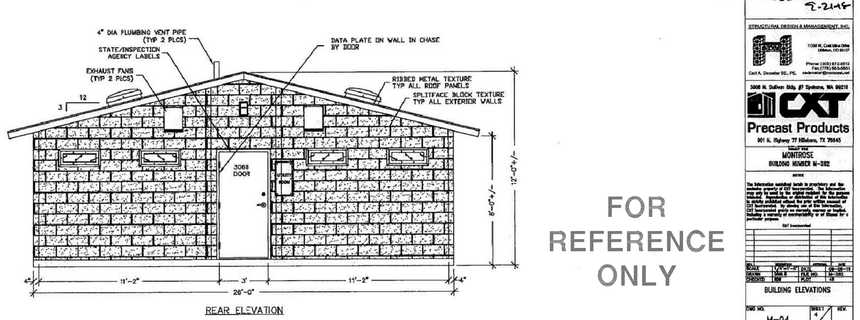
BINDING EDGE

MARINE PACKAGE



FRONT ELEVATION

NOTE: BASELINE OF LOWEST TACTILE CHARACTER ON SIGN TO BE 40"-60" AFF.



REAR ELEVATION

FOR REFERENCE ONLY

CARL A. DEMETER
STATE OF WASHINGTON
AUGUST 19, 2005
REGISTERED PROFESSIONAL ENGINEER
S-2145

STRUCTURAL DESIGN & MANAGEMENT, INC.
11330 W. Cedar Mesa Drive
Littleton, CO 80127
Phone: (303) 972-6512
Fax: (770) 565-5303
Carl A. Demeter, P.E., Pres. carldemeter@structuralmail.com

3008 N. Sullivan Rdg. // Spokane, WA 99216
CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT
MONTROSE
BUILDING NUMBER M-382

NOTES
The information contained herein is proprietary and the exclusive property of CXT Incorporated. The information may not be used for the stated purpose for any purpose without the express written permission of CXT Incorporated. In addition, CXT Incorporated shall not be responsible for any use of the information contained herein, including a warranty of merchantability or of fitness for a particular purpose.

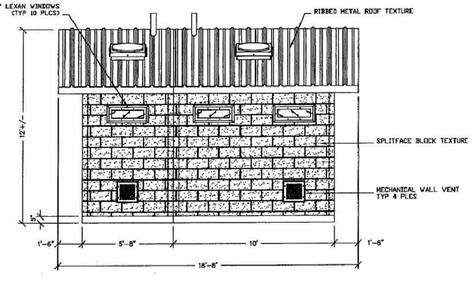
CXT Incorporated

ISSUE	APPROVED	DATE
PERMIT	Mike B	08.08.18
REVISION	Mike B	08.08.18
CHECKED	Mike B	08.08.18

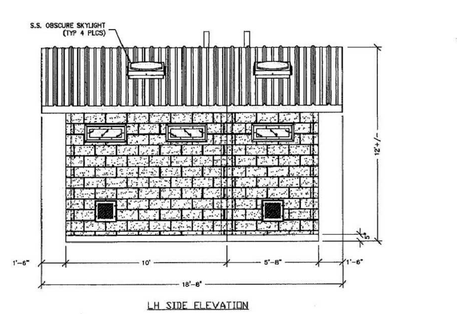
BUILDING ELEVATIONS

DWG NO. M-04 | SHEET 4 of 24 | REV.

MARINE PACKAGE



RH SIDE ELEVATION



LH SIDE ELEVATION

FOR REFERENCE ONLY

CARL A. DEMETER
STATE OF WASHINGTON
AUGUST 19, 2005
REGISTERED PROFESSIONAL ENGINEER
S-2145

STRUCTURAL DESIGN & MANAGEMENT, INC.
11330 W. Cedar Mesa Drive
Littleton, CO 80127
Phone: (303) 972-6512
Fax: (770) 565-5303
Carl A. Demeter, P.E., Pres. carldemeter@structuralmail.com

3008 N. Sullivan Rdg. // Spokane, WA 99216
CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT
MONTROSE
BUILDING NUMBER M-382

NOTES
The information contained herein is proprietary and the exclusive property of CXT Incorporated. The information may not be used for the stated purpose for any purpose without the express written permission of CXT Incorporated. In addition, CXT Incorporated shall not be responsible for any use of the information contained herein, including a warranty of merchantability or of fitness for a particular purpose.

CXT Incorporated

ISSUE	APPROVED	DATE
PERMIT	Mike B	08.08.18
REVISION	Mike B	08.08.18
CHECKED	Mike B	08.08.18

BUILDING ELEVATIONS

DWG NO. M-05 | SHEET 5 of 24 | REV.

1 MONTROSE RESTROOM BUILDING ELEVATIONS

NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR	
PRINTED BY:	smillett	Jul 17, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
RESTROOM BUILDING DETAILS - SHEET 3

6552
C4.15
SH 70 OF 499

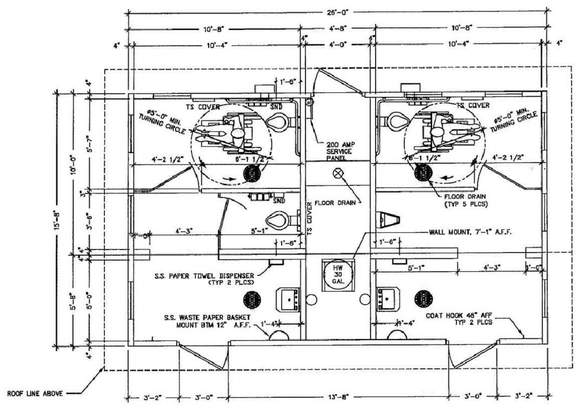
CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE: AS NOTED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.13-C4.14-C4.15-C4.16

BINDING EDGE

MARINE PACKAGE



FOR REFERENCE ONLY

NOTE:
ELECTRICAL AND PLUMBING COMPONENTS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. SEE SHEETS M-28 THRU M-32 FOR COMPLETE SYSTEM DESCRIPTIONS.

FLOOR PLAN

DWG NO. M-03 SHEET 3 / 34 REV.

CARL A. DEMEYER — STATE OF WASHINGTON — 9-24-16 — REGISTERED PROFESSIONAL ENGINEER

STRUCTURAL DESIGN & MANAGEMENT, INC.
11550 N. Civil Use Drive, Otis, CO 80727
Carl A. Demeyer SE, PE
Phone: (970) 572-0101 Fax: (719) 948-4357
carldemeyer@centurytel.net

3808 N. Sullivan Bldg. #7 Spokane, WA 99216

CXT Precast Products
101 N. Highway 77 Hillsboro, TX 76645

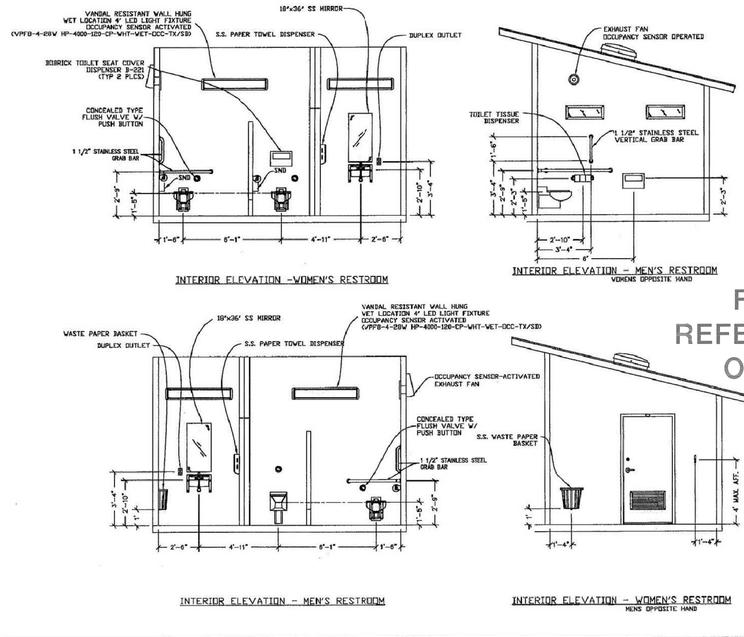
PROJECT NAME
MONTROSE
BUILDING NUMBER M-282

NOTICE
The information contained herein is proprietary and the property of CXT Inc. and may not be copied, used or used only for work by the original contract for the purpose for which it was originally furnished, without the prior written consent of CXT Inc. Any such unauthorized use is at the user's sole risk and without liability to CXT Incorporated. No drawing and no CXT Incorporated shall be construed as a representation or warranty, express or implied, as to the fitness or merchantability of or those for a particular purpose.

CXT Incorporated

NO.	REVISION	BY	DATE
1	ADDENDUM #1	JLB	08-08-16
2	PERMIT SET	JLB	08-26-16
3	PERMIT SET	JLB	09-23-16

MARINE PACKAGE



FOR REFERENCE ONLY

CARL A. DEMEYER — STATE OF WASHINGTON — 9-24-16 — REGISTERED PROFESSIONAL ENGINEER

STRUCTURAL DESIGN & MANAGEMENT, INC.
11550 N. Civil Use Drive, Otis, CO 80727
Carl A. Demeyer SE, PE
Phone: (970) 572-0101 Fax: (719) 948-4357
carldemeyer@centurytel.net

3808 N. Sullivan Bldg. #7 Spokane, WA 99216

CXT Precast Products
101 N. Highway 77 Hillsboro, TX 76645

PROJECT NAME
MONTROSE
BUILDING NUMBER M-282

NOTICE
The information contained herein is proprietary and the property of CXT Inc. and may not be copied, used or used only for work by the original contract for the purpose for which it was originally furnished, without the prior written consent of CXT Inc. Any such unauthorized use is at the user's sole risk and without liability to CXT Incorporated. No drawing and no CXT Incorporated shall be construed as a representation or warranty, express or implied, as to the fitness or merchantability of or those for a particular purpose.

CXT Incorporated

NO.	REVISION	BY	DATE
1	ADDENDUM #1	JLB	08-08-16
2	PERMIT SET	JLB	08-26-16
3	PERMIT SET	JLB	09-23-16

INTERIOR ELEVATIONS

DWG NO. M-06 SHEET 6 / 34 REV.

MONTROSE RESTROOM BUILDING DETAILS

1 – NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

APPROVED:

DIRECTOR ENG.	DATE

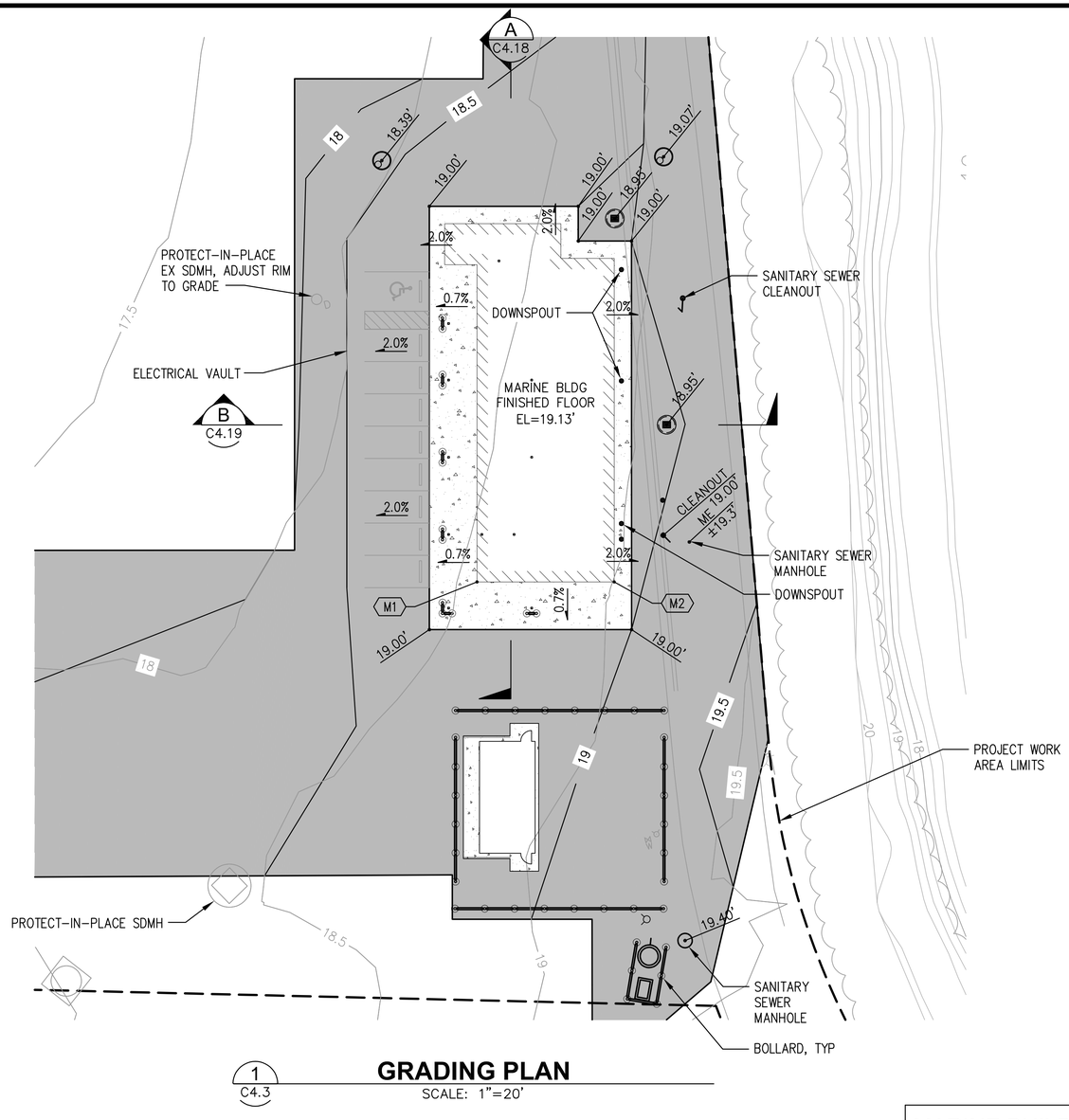
PIER 4 PHASE 2
RECONFIGURATION
RESTROOM BUILDING DETAILS - SHEET 4

6552
C4.16
SH 71 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul 17, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401–1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.13-C4.14-C4.15-C4.16



1 C4.3 **GRADING PLAN**

SCALE: 1"=20'

MARINE BUILDING HORIZONTAL CONTROL

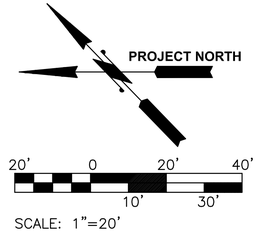
POINT ID	NORTHING	EASTING
M1	713749.31	1166245.30
M2	712043.42	1167857.82

NOTES

1. ALL SPOT ELEVATIONS REPRESENT TOP OF PAVEMENT.
2. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED OR OVER–EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER SECTION 31 00 00 – EARTHWORK SPECIFICATION.
4. EXCAVATE TO SUBGRADE, PLACE AND COMPACT BASE COURSE AND PAVE WHERE ASPHALT PAVEMENT IS INDICATED.
5. SAWCUT AND APPLY TACK COAT AT ALL JOINTS.
6. TOP OF FINISH GRADE OF PAVEMENT RESTORATION AREAS SHALL BE FLUSH WITH EXISTING PAVEMENT FOR SMOOTH TRANSITION AT PAVEMENT EDGES.
7. CONTRACTOR SHALL STOCKPILE AND STAGE ALL EQUIPMENT, SUPPLIES AND MATERIALS WITHIN THE PROJECT WORK AREA LIMITS UNLESS NOTED OTHERWISE. WHEN CONTRACT WORK IS COMPLETE CONTRACTOR SHALL CLEAR AND CLEAN THE WORK AREA AND REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, INCLUDING PAVEMENT.

LEGEND

- PROJECT WORK AREA LIMITS
- EXISTING GRADE CONTOUR (17)
- FINISH GRADE CONTOUR (17)
- ASPHALT PAVEMENT (1 / C4.8)
- CONCRETE PAVEMENT
- BOLLARD CAGE (1 / C7.4)
- FLOW LINE
- RIDGE LINE
- STORM DRAINAGE STRUCTURES, SEE DRAINAGE DRAWINGS
- SPOT ELEVATION (16.43')
- GROUND SLOPE (0.5%)
- LIGHT POLE, SEE ELECTRICAL DRAWINGS
- ELECTRICAL AND COMMUNICATIONS VAULTS, SEE ELECTRICAL DRAWINGS
- FIRE HYDRANT
- EXISTING STORM DRAIN LID/STRUCTURE
- SANITARY SEWER LIFT STATION



SCALE: 1"=20'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PRINTED BY:	smillett	Jul 17, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

PIER 4 PHASE 2 RECONFIGURATION
MARINE BUILDING ENLARGED GRADING PLAN

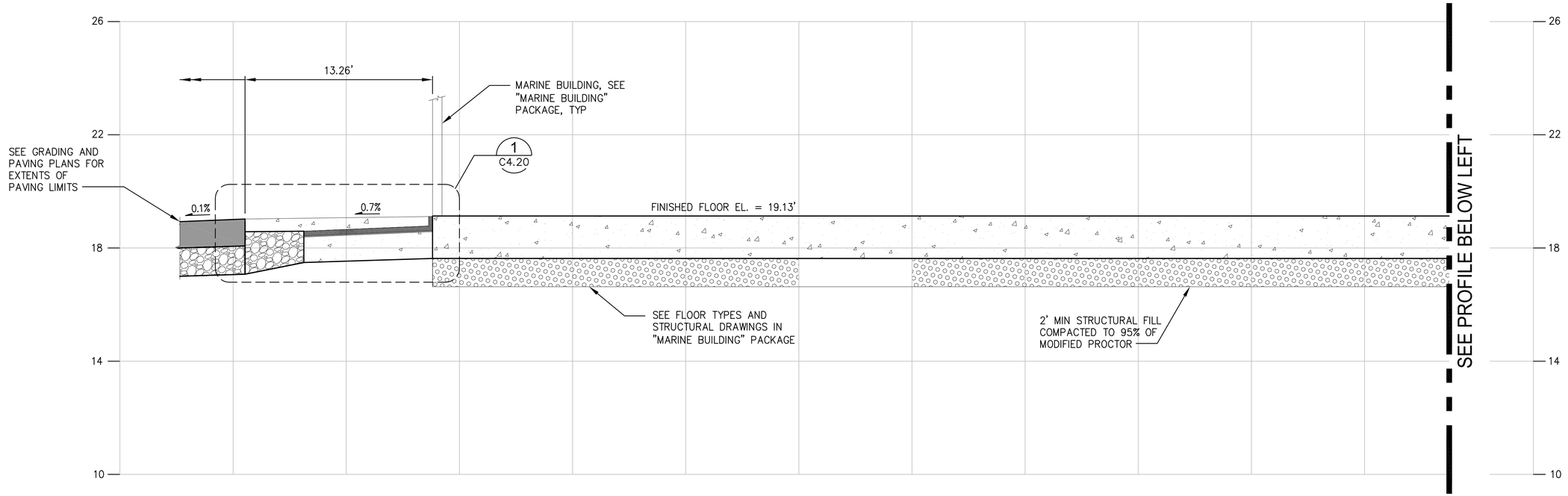
CONT/CONS:	0701.36	TOWNSHIP:	
M. ID:	091251	DAT–HRZ:	WA83–SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide		22 1933
DRAWING SCALE:	AS NOTED		

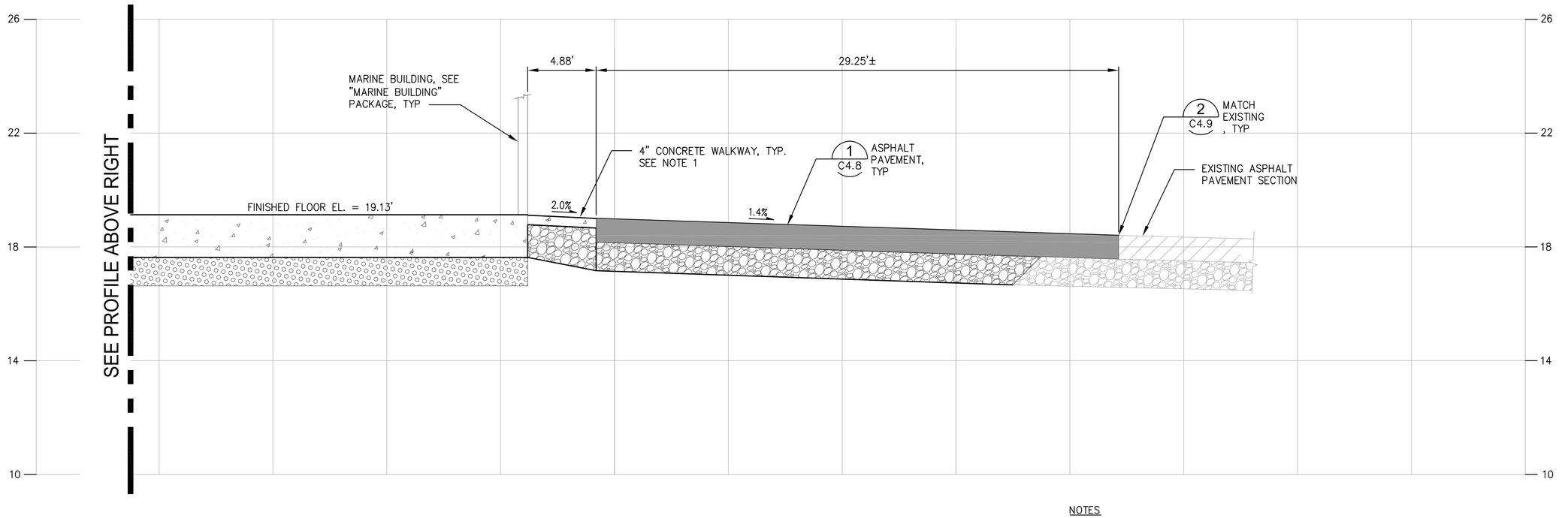
6552
C4.17
SH 72 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.17 (Marine Ops Grading Plan).dwg
BINDING EDGE

BINDING EDGE





A
C4.17

GRADING SECTION

SCALE: HORIZ: 1"=4', VERT: 1"=2'

NOTES

1. CONCRETE WALKWAYS SHALL BE CONSTRUCTED PER CITY OF TACOMA STANDARD PLANS AND TO THE DIMENSIONS SHOWN HEREIN.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PROJ. ENGR

PRINTED BY: kvang Jul 19, 2018

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

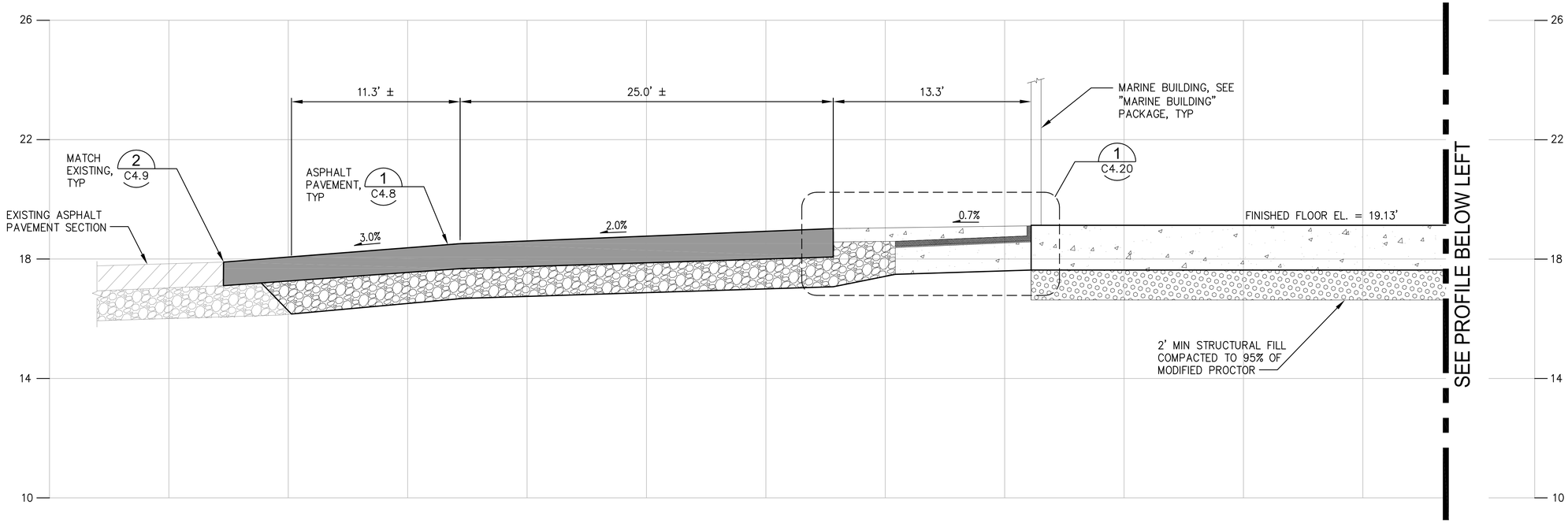
PIER 4 PHASE 2
RECONFIGURATION
MARINE BUILDING GRADING AND PAVING SECTIONS - SHEET 1

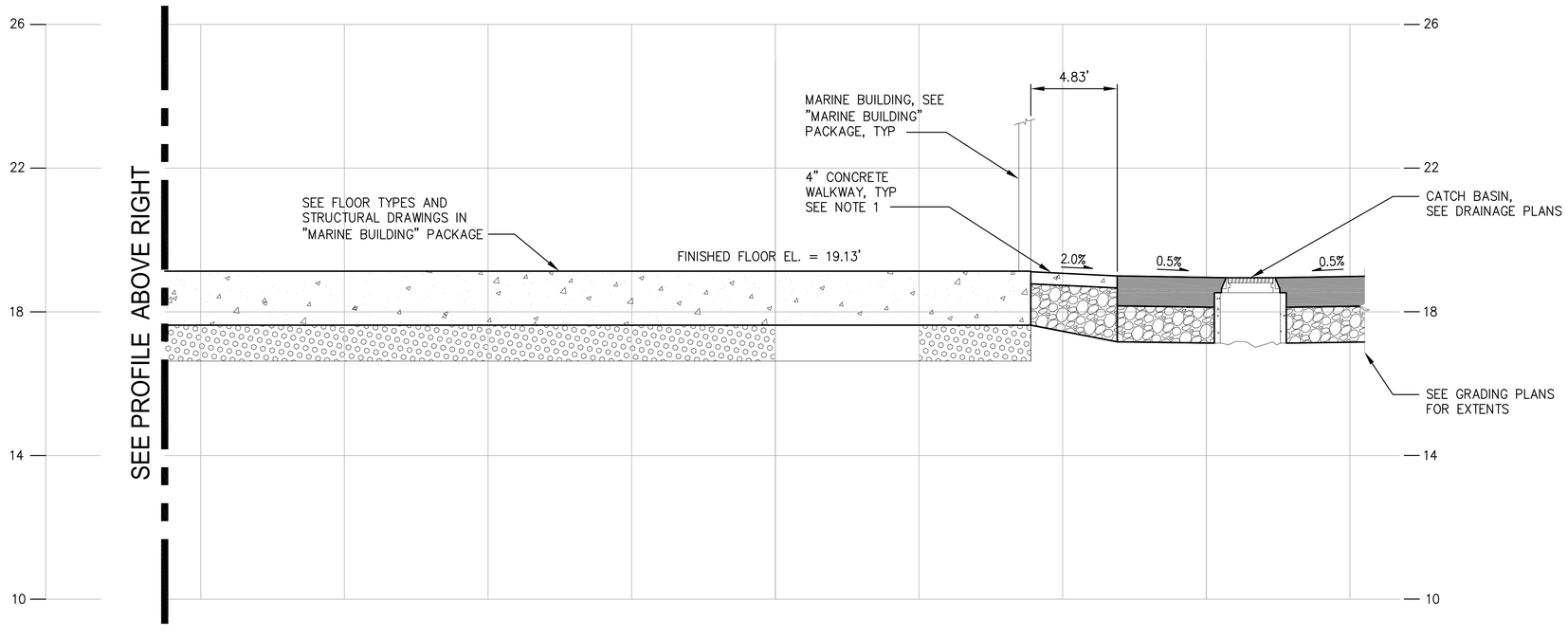
CONT/CONS:	070136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
		RANGE:	
		VERT:	MLLW 19.39' @ Tide 22 1933
		SECTION:	

6552
C4.18
SH 73 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.18-4.19-4.20 (Grading and Paving Sections).dgn





B
C4.17

GRADING SECTION

SCALE: HORIZ: 1"=4', VERT: 1"=2'

NOTES

1. CONCRETE WALKWAYS SHALL BE CONSTRUCTED PER CITY OF TACOMA STANDARD PLANS AND TO THE DIMENSIONS SHOWN HEREIN.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
MARINE BUILDING GRADING AND PAVING SECTIONS - SHEET 2

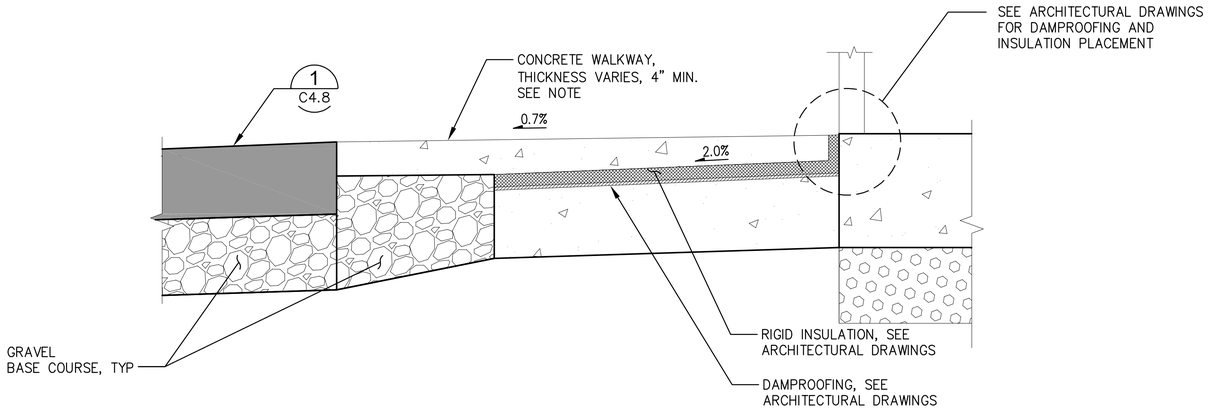
6552
C4.19
SH 74 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: kvang Jul 19, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.18-4.19-4.20 (Grading and Paving Sections).dgn BINDING EDGE



A PAVING AND GRADING DETAILS

C4.18, C4.19 — 1"=2'

NOTES:

1. CONCRETE WALKWAYS SHALL BE CONSTRUCTED PER CITY OF TACOMA STANDARD PLANS AND TO THE DIMENSIONS SHOWN HEREIN.

RECORD DRAWINGS

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C4.18-4.19-4.20 (Grading and Paving Sections).dgn

BINDING EDGE

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

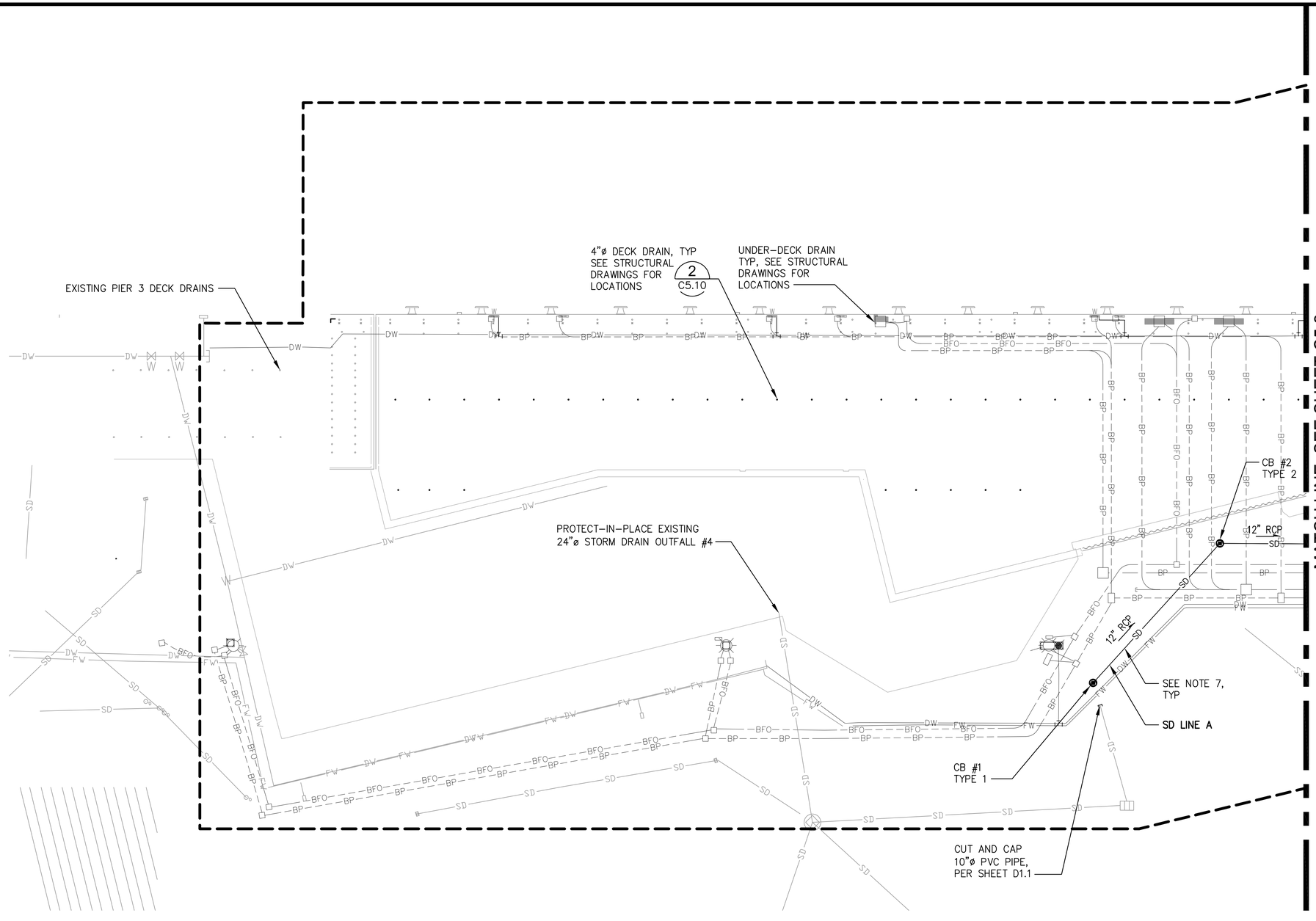
DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY:	smillett Jul 19, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837		

PIER 4 PHASE 2
RECONFIGURATION
MARINE BUILDING GRADING AND PAVING DETAILS

CONT/CONS:	070136	TOWNSHIP:		RANGE:		SECTION:	
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:	AS NOTED		

6552
C4.20
SH 75 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



DRAINAGE PLAN

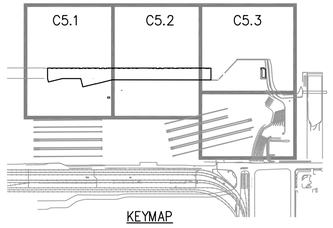
SCALE: 1"=40'

NOTES

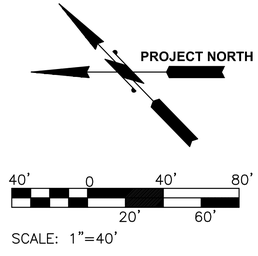
1. SEE STRUCTURAL DRAWINGS FOR DRAINAGE ELEMENTS WITHIN UTILITY VAULTS ALONG THE BULLRAIL.
2. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. UNLESS OTHERWISE NOTED, CATCH BASINS AND MANHOLES SHALL CONFORM TO WSDOT STANDARD PLANS AND SPECIFICATIONS, MODIFIED TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
4. FOR MANHOLE AND CATCH BASIN INSTALLATION REQUIREMENTS, SEE 1/C5.12 AND 2/C5.12
5. UTILITY VAULTS AND STORMWATER TREATMENT STRUCTURES SHALL BE CONSTRUCTED TO THE INTERIOR DIMENSIONS SHOWN ON THE PLANS AND DETAILS AND DESIGNED BY THE CONTRACTOR TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
6. SEE SHEETS C5.5–C5.7 FOR STORM DRAIN PROFILES.
7. FOR TYPICAL STORM DRAINAGE TRENCH DETAIL, SEE 1/C5.8

LEGEND

- PROJECT WORK AREA LIMITS
- SD — STORM DRAIN PIPE, SIZE PER PLAN
- STORM DRAIN MANHOLE, SEE NOTE 3
- CATCH BASIN, SEE NOTE 3
- 4" DECK DRAIN
- ENHANCED STORMWATER TREATMENT VAULT, OIL/WATER SEPARATOR, SEE NOTE 5



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		

APPROVED:

PRINTED BY: smillett Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
DRAINAGE PLAN - SHEET 1

TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED	
PARCEL:			

6552
C5.1
SH 76 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

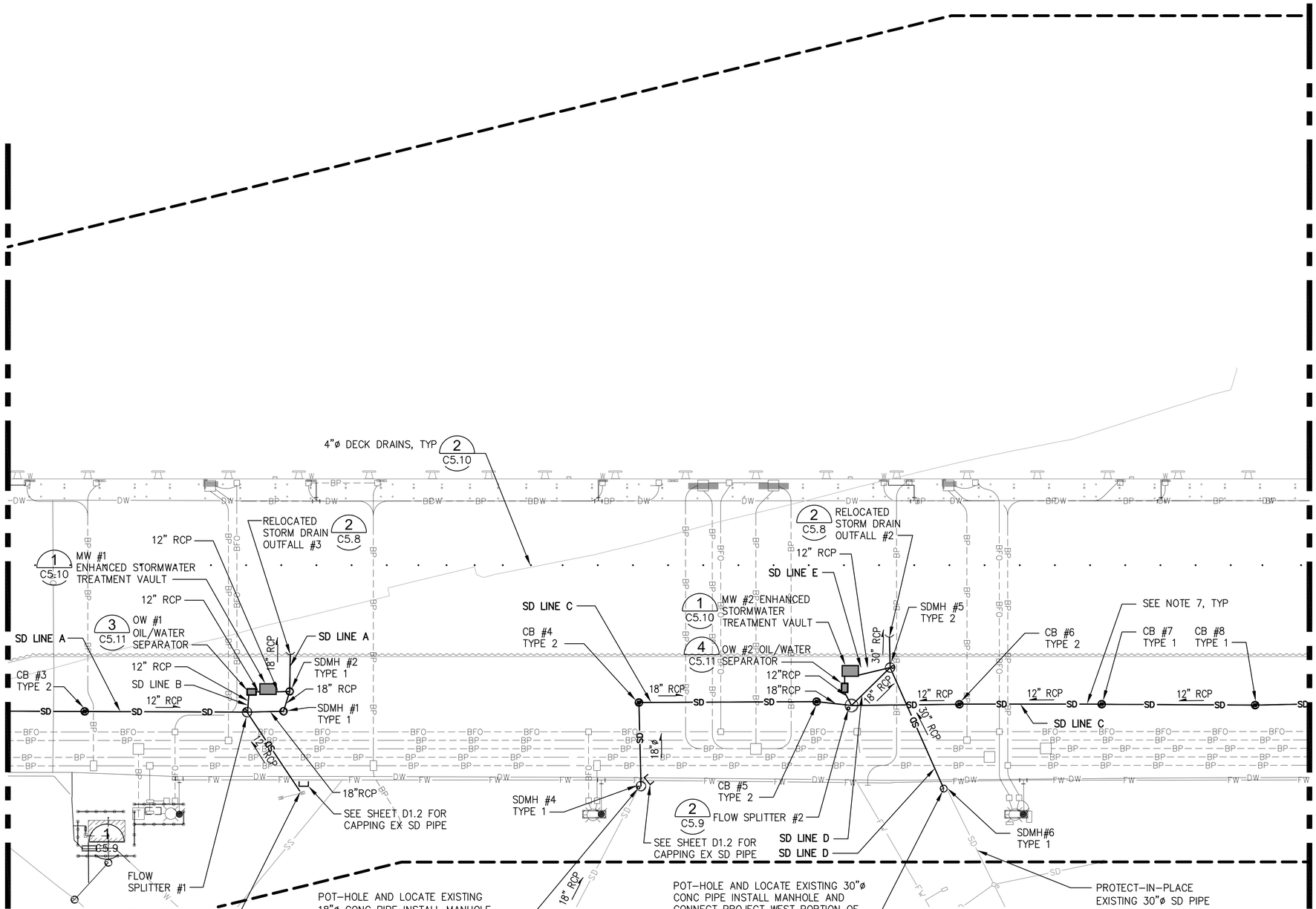
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.1-C5.2-C5.3 (Drainage Plan - Sheet X)

BINDING EDGE

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.1-C5.2-C5.3 (Drainage Plan - Sheet X)



DRAINAGE PLAN

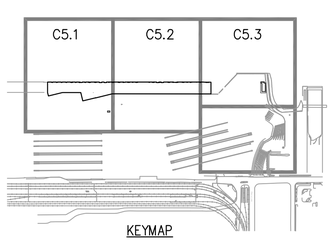
SCALE: 1"=40'

NOTES

1. SEE STRUCTURAL PLANS DRAWINGS DRAINAGE ELEMENTS WITHIN UTILITY VAULTS ALONG THE BULLRAIL.
2. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. UNLESS OTHERWISE NOTED, CATCH BASINS AND MANHOLES SHALL CONFORM TO WSDOT STANDARD PLANS AND SPECIFICATIONS, MODIFIED TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
4. FOR MANHOLE AND CATCH BASIN INSTALLATION REQUIREMENTS, SEE 1 C5.12 AND 2 C5.12
5. UTILITY VAULTS AND STORMWATER TREATMENT STRUCTURES SHALL BE CONSTRUCTED TO THE INTERIOR DIMENSIONS SHOWN ON THE PLANS AND DETAILS AND DESIGNED BY THE CONTRACTOR TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
6. SEE SHEETS C5.5–C5.7 FOR STORM DRAIN PROFILES.
7. FOR TYPICAL STORM DRAINAGE TRENCH DETAIL, SEE 1 C5.8

LEGEND

- PROJECT WORK AREA LIMITS
- SD — STORM DRAIN PIPE, SIZE PER PLAN
- STORM DRAIN MANHOLE, SEE NOTE 3
- CATCH BASIN, SEE NOTE 3
- 4" DECK DRAIN
- ENHANCED STORMWATER TREATMENT VAULT, OIL/WATER SEPARATOR, SEE NOTE 5



KEYMAP

PROJECT NORTH

40' 0 40' 80'
20' 60'

SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		
DRAWN BY:	smillett	Jul 17, 2018
PRINTED BY:		
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE PLAN - SHEET 2

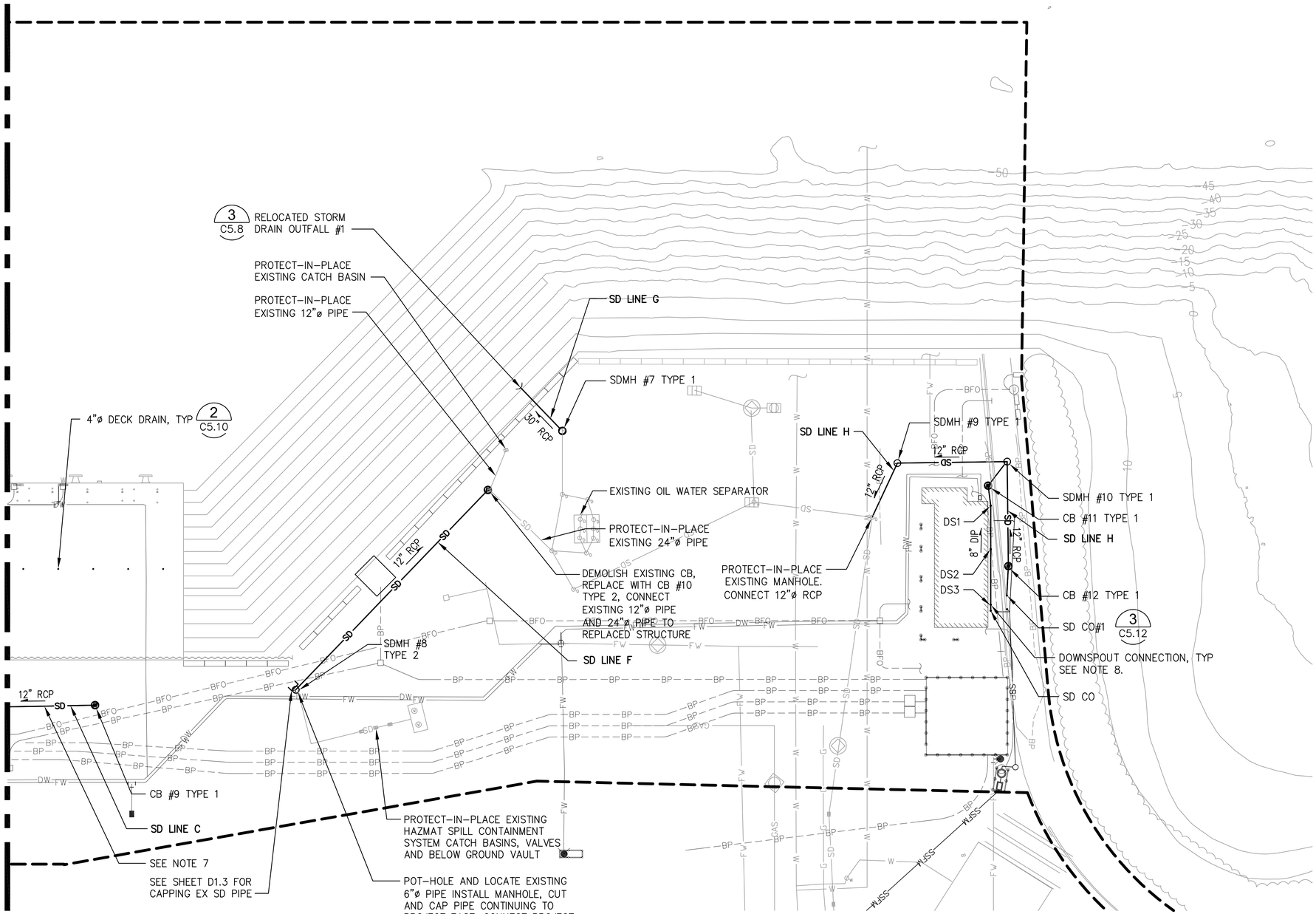
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
SECTION:			
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

6552
C5.2
SH 77 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.1-C5.2-C5.3 (Drainage Plan - Sheet X)



DRAINAGE PLAN

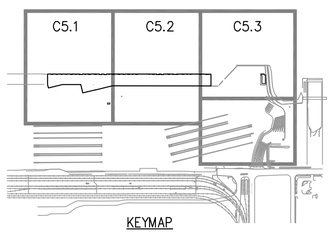
SCALE: 1"=40'

NOTES

1. SEE STRUCTURAL PLANS DRAWINGS DRAINAGE ELEMENTS WITHIN UTILITY VAULTS ALONG THE BULLRAIL.
2. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. UNLESS OTHERWISE NOTED, CATCH BASINS AND MANHOLES SHALL CONFORM TO WSDOT STANDARD PLANS AND SPECIFICATIONS, MODIFIED TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
4. FOR MANHOLE AND CATCH BASIN INSTALLATION REQUIREMENTS, SEE 1 C5.12 AND 2 C5.12
5. UTILITY VAULTS AND STORMWATER TREATMENT STRUCTURES SHALL BE CONSTRUCTED TO THE INTERIOR DIMENSIONS SHOWN ON THE PLANS AND DETAILS AND DESIGNED BY THE CONTRACTOR TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
6. SEE SHEETS C5.5–C5.7 FOR STORM DRAIN PROFILES.
7. FOR TYPICAL STORM DRAINAGE TRENCH DETAIL, SEE 1 C5.8
8. DOWNSPOUT CONNECTIONS SHALL BE COORDINATED WITH THE PORT AND ENGINEER PRIOR TO STARTING WORK IN THIS AREA.

LEGEND

- PROJECT WORK AREA LIMITS
- SD — STORM DRAIN PIPE, SIZE PER PLAN
- STORM DRAIN MANHOLE, SEE NOTE 3
- CATCH BASIN, SEE NOTE 3
- 4" DECK DRAIN
- ENHANCED STORMWATER TREATMENT VAULT, OIL/WATER SEPARATOR, SEE NOTE 5



KEYMAP

PROJECT NORTH

40' 0 40' 80'
20' 60'

SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2555

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE	CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE PLAN - SHEET 3

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul 17, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
C5.3
SH 78 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

STRUCTURE SCHEDULE

STRUCTURE I.D.	NORTHING	EASTING	TYPE/SIZE	LOAD CRITERIA (SEE NOTE 4)	NOTE
STORM DRAIN MANHOLES					
SDMH #1	712999.64	1166781.94	TYPE 1 54"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #2	713006.76	1166794.97	TYPE 1 54"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #4	712784.61	1166927.44	TYPE 1 54"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #5	712721.85	1167113.27	TYPE 2 72"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #6	712633.56	1167080.77	TYPE 1 54"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #7	712352.49	1167737.79	TYPE 1 54"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #8	712355.79	1167471.57	TYPE 1 48"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #9	712172.75	1167893.00	TYPE 1 48"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
SDMH #10	712118.89	1167950.11	TYPE 1 48"	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	1
CATCH BASINS					
CB #1	713170.98	1166461.65	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #2	713179.57	1166596.95	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #3	713097.98	1166680.28	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #4	712828.32	1166967.74	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #5	712740.84	1167058.90	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #6	712668.84	1167130.46	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #7	712598.49	1167203.21	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #8	712522.11	1167281.03	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #9	712447.80	1167360.76	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #10	712362.69	1167669.46	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #11	712116.01	1167928.38	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CB #12	712064.75	1167898.82	TYPE 2, 48"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
CLEANOUT / DOWN SPOUT					
SD CO #1	712050.57	1167867.53		HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	
DS1	712104.51	1167919.81			
DS2	712082.25	1167898.23			
DS3	712053.70	1167870.57			
FLOW-SPLITTER MH					
FLOW SPLITTER #1	713017.29	1166762.94	MODIFIED CB TYPE 2 96"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
FLOW SPLITTER #2	712723.23	1167075.60	MODIFIED CB TYPE 2 96"Ø	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	2
TREATMENT					
O/W SEPARATOR #1	SEE SHEET C5.11	SEE SHEET C5.11	660 CPS	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	
O/W SEPARATOR #2	SEE SHEET C5.11	SEE SHEET C5.11	660 CPS	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	
MW #1	SEE SHEET C5.10	SEE SHEET C5.10	MODULAR WETLAND MWS-L-8-12-UG-V	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	
MW #2	SEE SHEET C5.10	SEE SHEET C5.10	MODULAR WETLAND MWS-L-8-12-UG-V	HS 25 TRUCK, KALMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER	

NOTES:

1. MANHOLES SHALL BE MODIFIED WSDOT TYPE 1 MANHOLES. CONTRACTOR SHALL DESIGN STRUCTURES BASED ON THE DIMENSIONS AND LOADS SHOWN IN THE SCHEDULE.
2. TYPE 1 AND 2 CATCH BASINS SHALL BE MODIFIED WSDOT TYPE 1 AND 2 CATCH BASINS. CONTRACTOR SHALL DESIGN STRUCTURES BASED ON THE DIMENSIONS AND LOADS SHOWN IN THE SCHEDULE.
3. COORDINATES OF CATCH BASINS AND MANHOLES ARE AT CENTERLINE OF THE STRUCTURE.
4. SEE SHEET S1.2 FOR LOAD DEFINITIONS.
5. STRUCTURE SIZES INDICATED IN THE STRUCTURE SCHEDULE ARE INTERIOR STRUCTURE DIMENSIONS.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.4 (Drainage & Sanitary Sewer Structure Schedule)

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2503/253-383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE STRUCTURE SCHEDULE

PROJ. ENGR	DATE

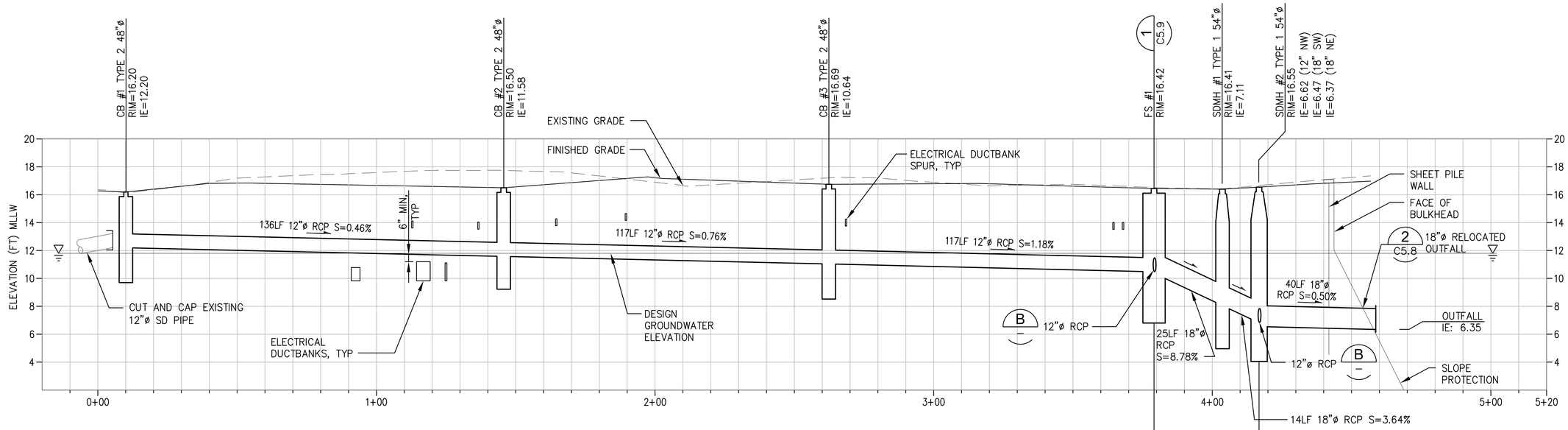
PRINTED BY: smillett Jul 18, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C5.4
SH 79 OF 499

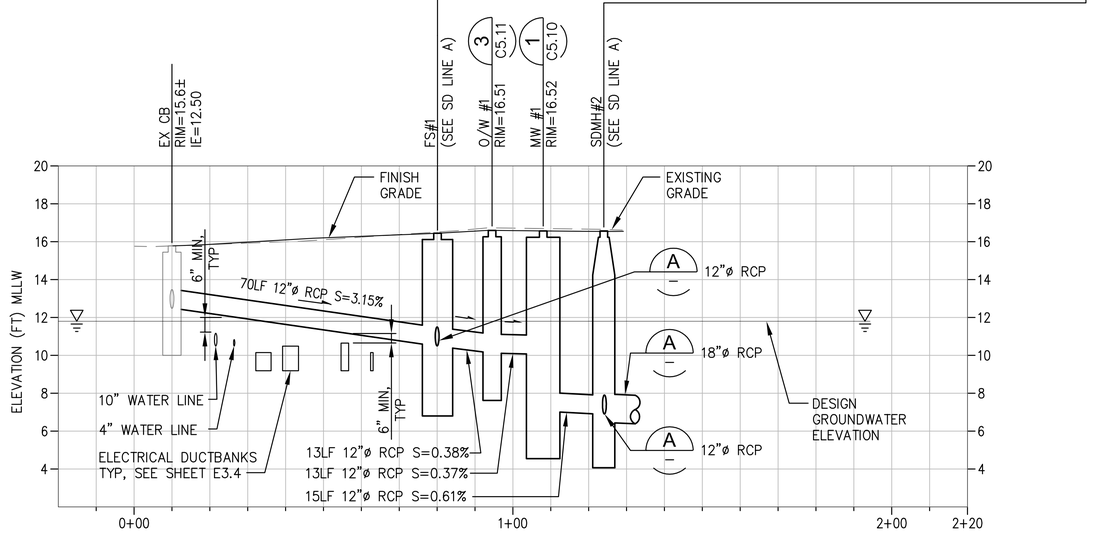
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



A SD LINE A

C5.1, C5.2 SCALE: HORIZ:1"=20', VERT:1"=4'



B SD LINE B

C5.2 SCALE: HORIZ:1"=20', VERT:1"=4'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535353641

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE PROFILES - SHEET 1

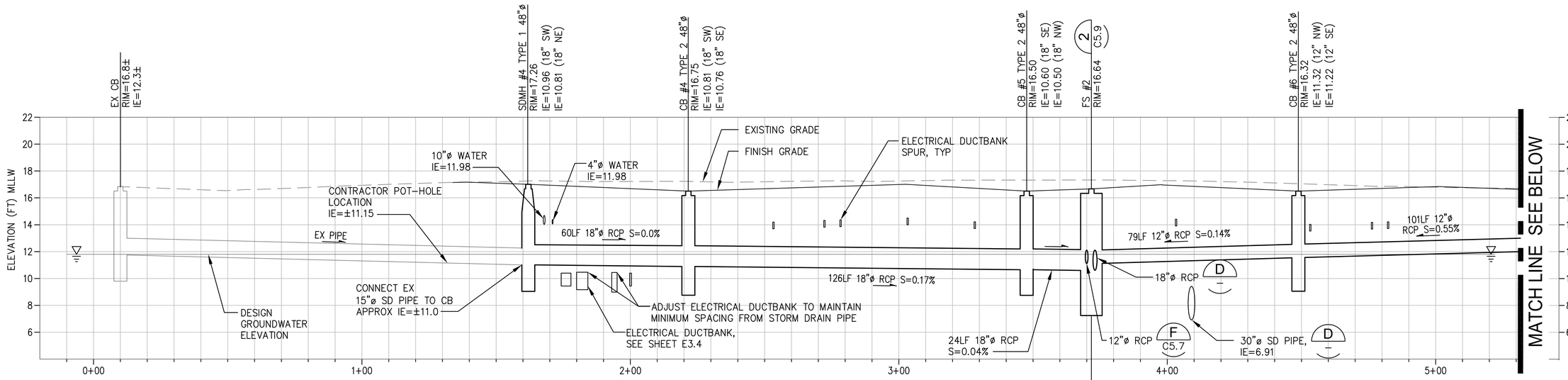
6552
C5.5
SH 80 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: kvang Jul 17, 2018 PROJ. ENGR
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.5-C5.6-C5.7 (Drainage Profiles)

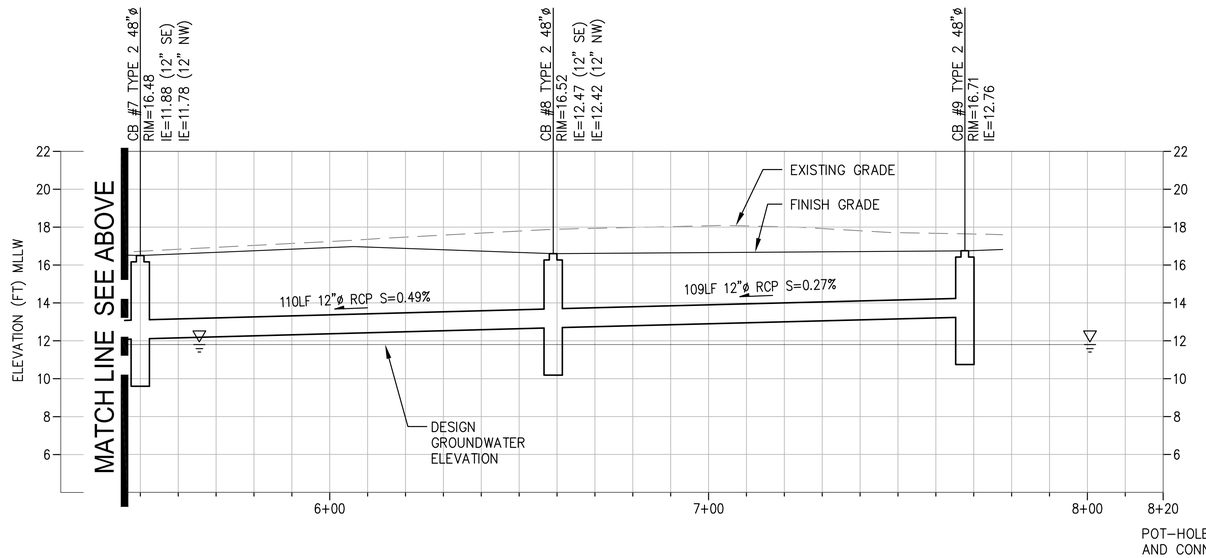


NOTES

1. POT-HOLE AND LOCATE EXISTING STORM DRAIN PIPING TO BE CONNECTED TO STORM DRAIN STRUCTURES. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.

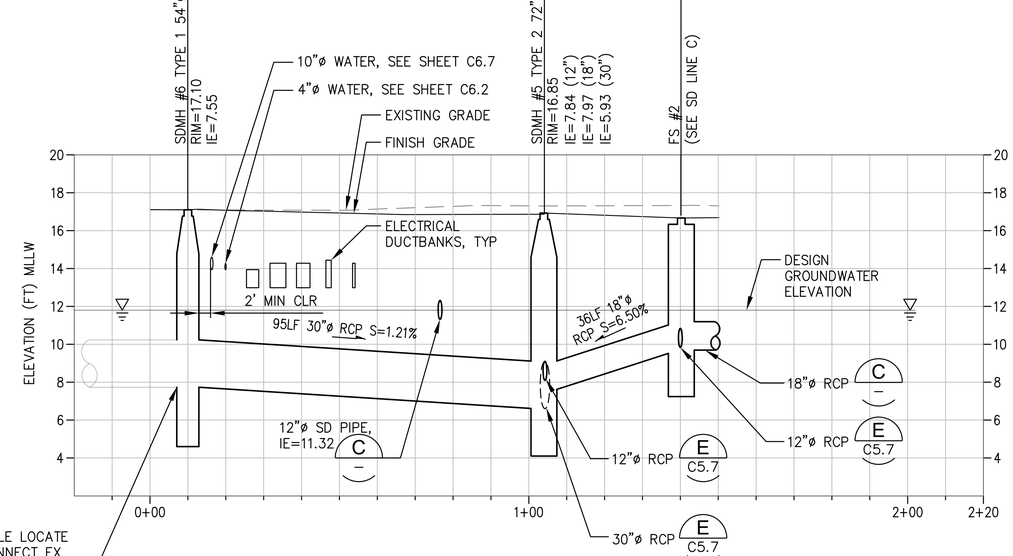
C SD LINE C

C5.2,C5.3 SCALE: HORIZ:1"=20', VERT:1"=4'



C SD LINE C CONT.

C5.2 SCALE: HORIZ:1"=20', VERT:1"=4'



D SD LINE D

C5.2 SCALE: HORIZ:1"=20', VERT:1"=4'

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353041

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE PROFILES - SHEET 2

PRINTED BY: kvang Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

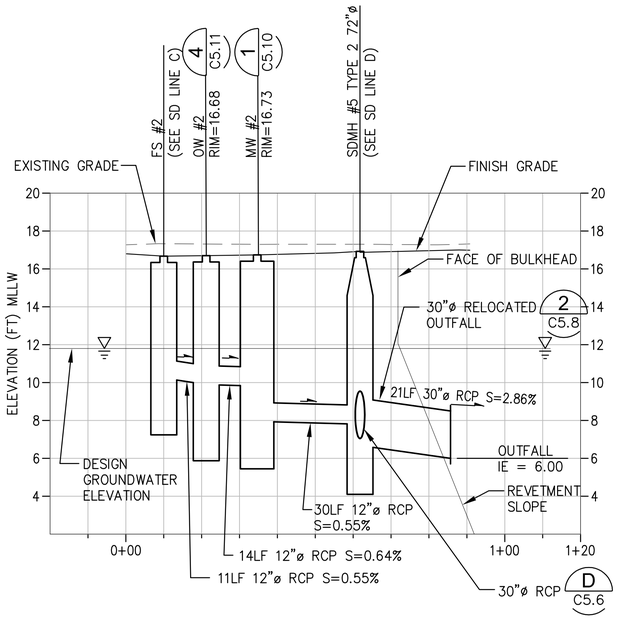
CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C5.6
SH 81 OF 499

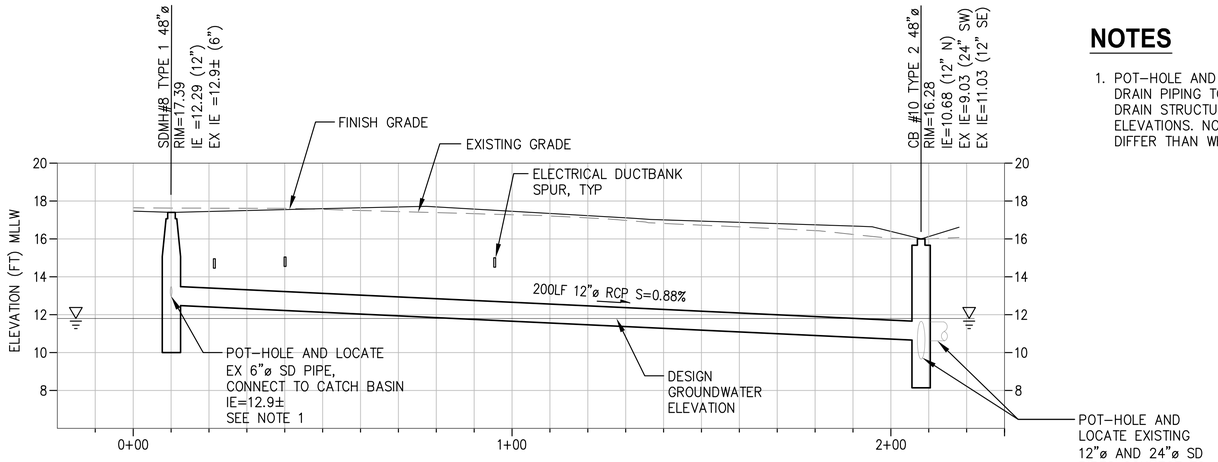
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5,5-C5,6-C5.7 (Drainage Profiles)



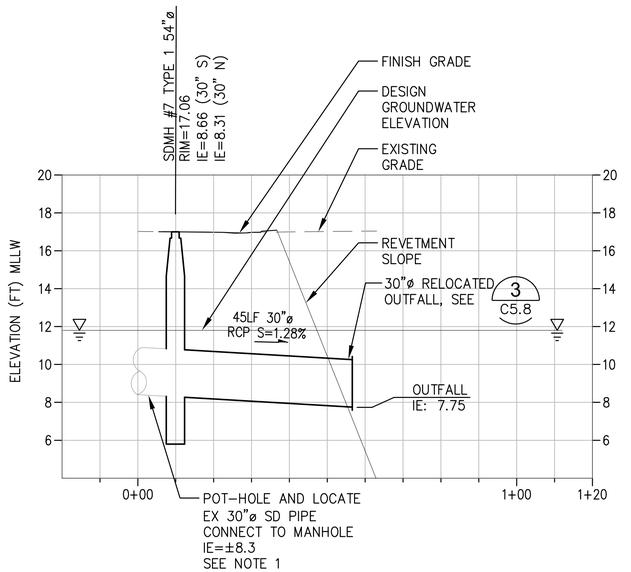
E **SD LINE E**
C5.2 SCALE: HORIZ:1"=20', VERT:1"=4'



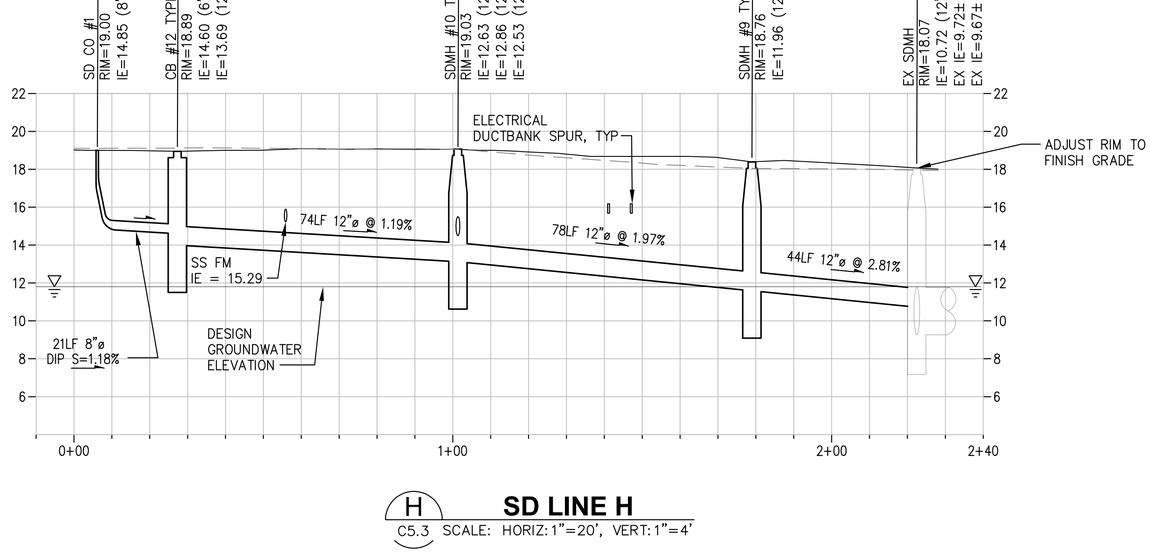
F **SD LINE F**
C5.3 SCALE: HORIZ:1"=20', VERT:1"=4'

NOTES

1. POT-HOLE AND LOCATE EXISTING STORM DRAIN PIPING TO BE CONNECTED TO STORM DRAIN STRUCTURES. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.



G **SD LINE G**
C5.3 SCALE: HORIZ:1"=20', VERT:1"=4'



H **SD LINE H**
C5.3 SCALE: HORIZ:1"=20', VERT:1"=4'

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PRINTED BY: kvang Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE PROFILES - SHEET 3

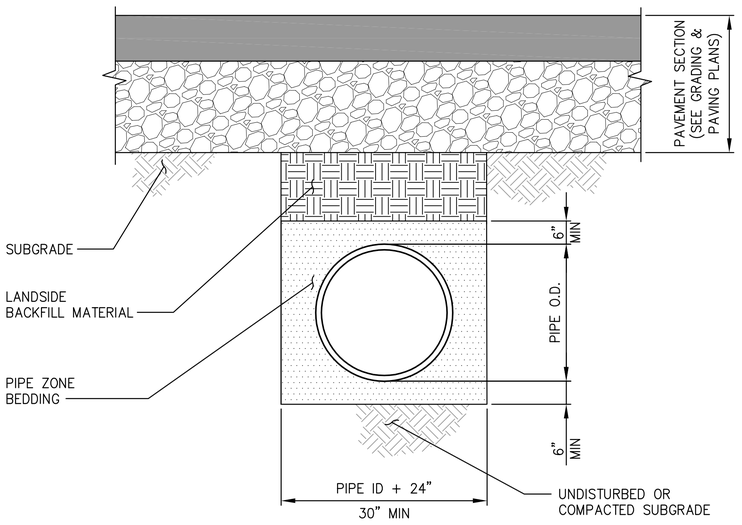
CONT/CONS:	0701.36	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:		

6552
C5.7
SH 82 OF 499

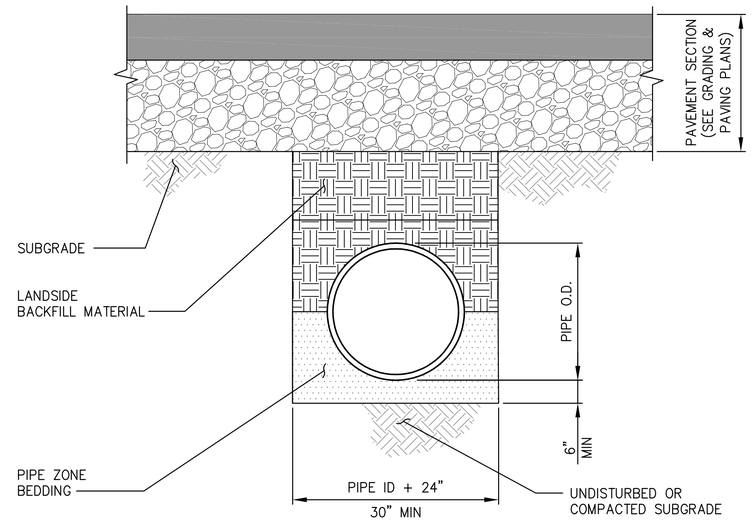
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.5-C5.6-C5.7 (Drainage Profiles)



BEDDING FOR FLEXIBLE PIPE



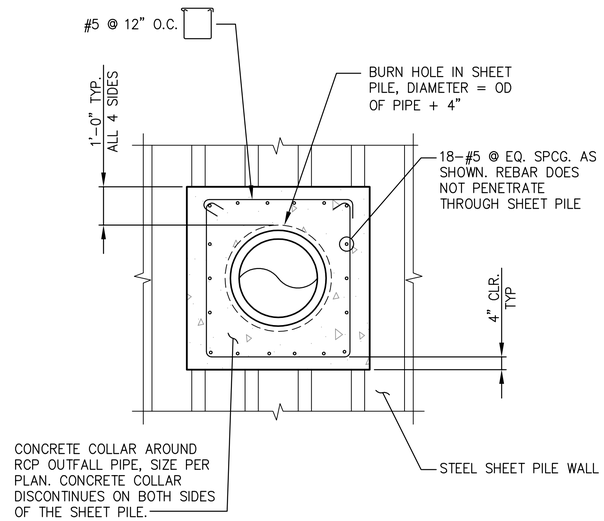
BEDDING FOR RIGID PIPE

TYPICAL STORM DRAINAGE TRENCH DETAIL

1 / C4.8, C5.1 TO C5.3 — NTS

NOTE:

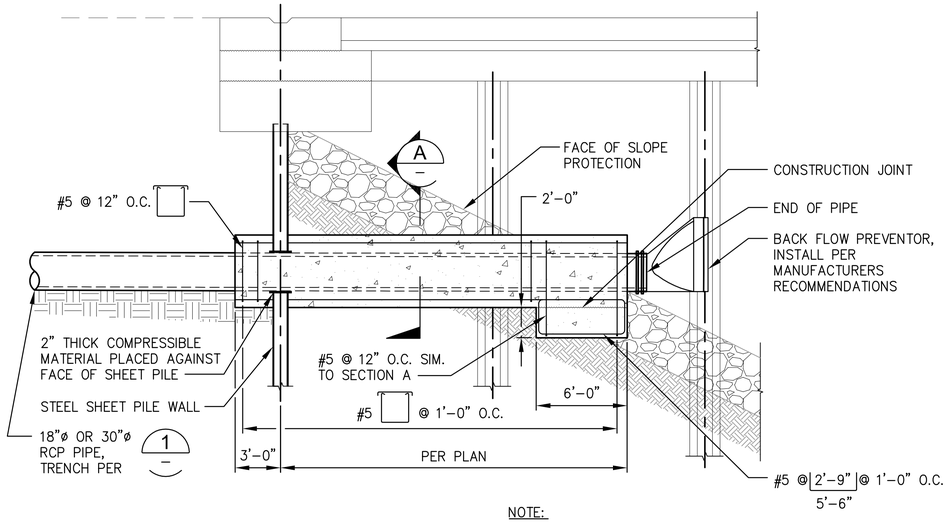
1. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS.



OUTFALL ANCHOR SECTION

A / – — NTS

SEE SHEETS C5.8A AND C5.8B FOR ADDITIONAL CONSTRUCTION

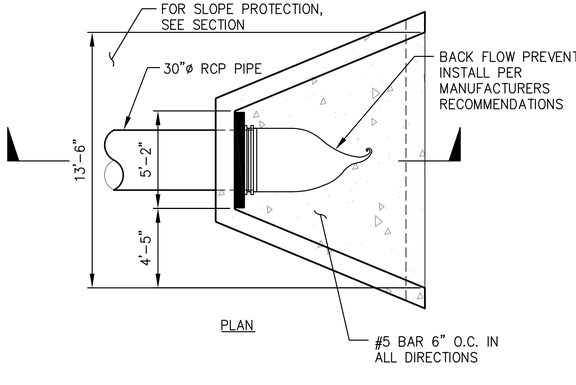


NOTE:

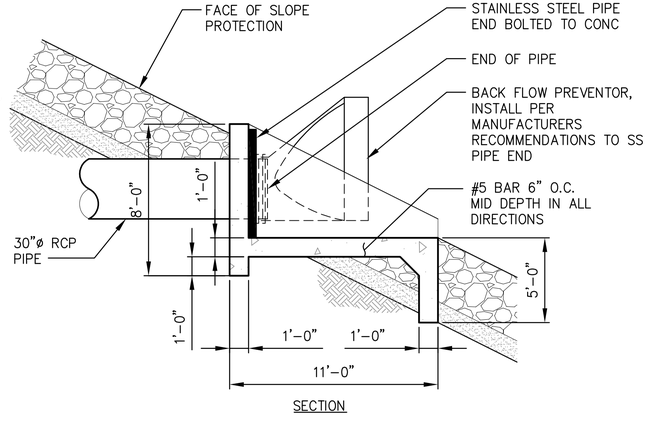
1. CONTRACTOR SHALL PROVIDE SHORING AND DEWATERING AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE OUTFALL. SUBMIT SHORING DESIGN PER THE SPECIFICATIONS.
2. SHEET PILE FOR THE BULKHEAD WALL SHALL NOT BE USED AS TEMPORARY SHORING.

2 OUTFALL DETAIL

C5.2, C5.5 — NTS



PLAN



SECTION

NOTE:

1. CONTRACTOR SHALL PROVIDE SHORING AND DEWATERING AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE OUTFALL. SUBMIT SHORING DESIGN PER THE SPECIFICATIONS.

3 RELOCATED OUTFALL #1 DETAIL

C5.3, C5.7 — NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE DETAILS - SHEET 1

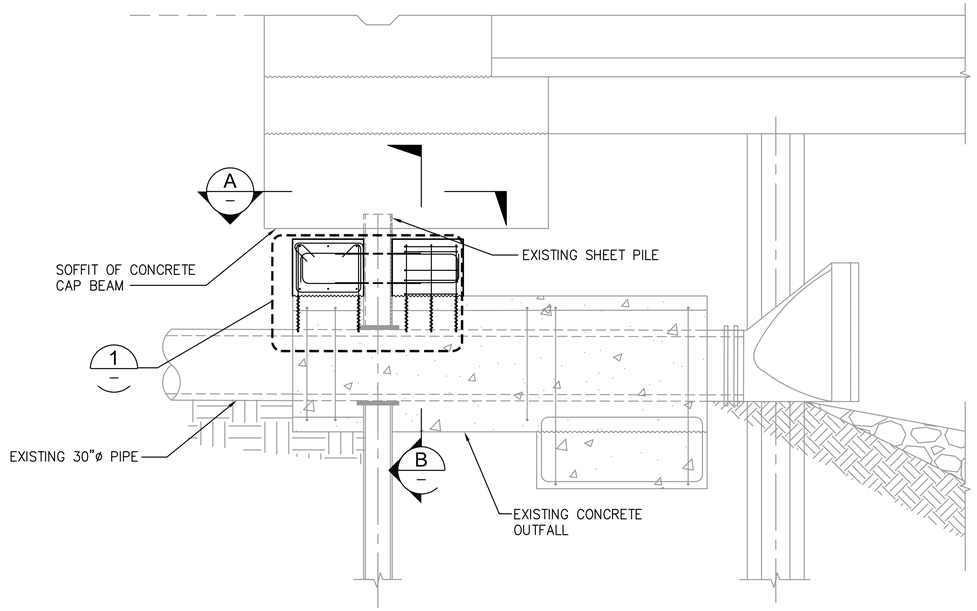
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: kvang Jul 19, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA
			TACOMA, WA 98401-1837

6552
C5.8
SH 83 OF 499

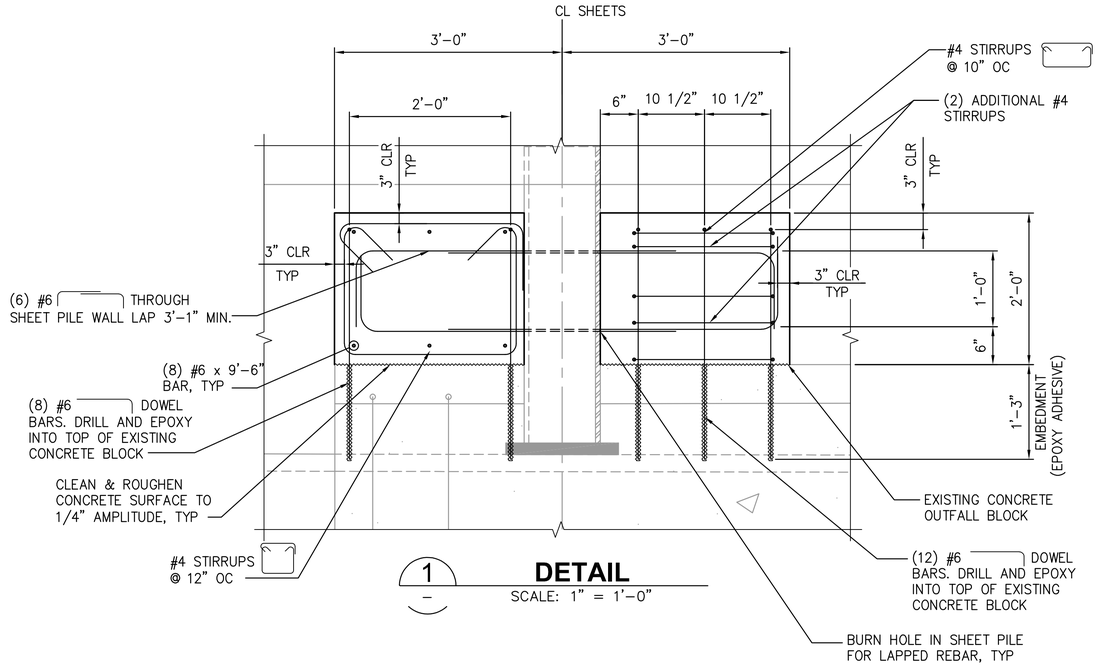
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

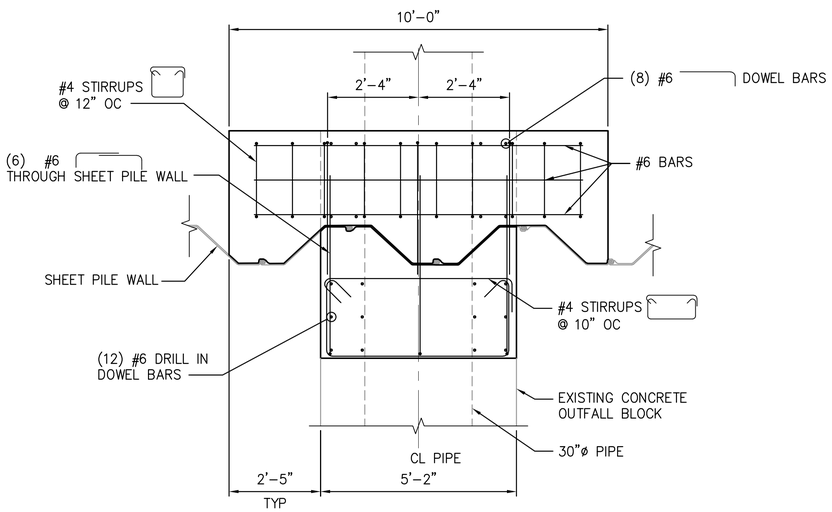
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.8-C5.9-C5.10-C5.11-C5.12 (Drainage Details).dwg



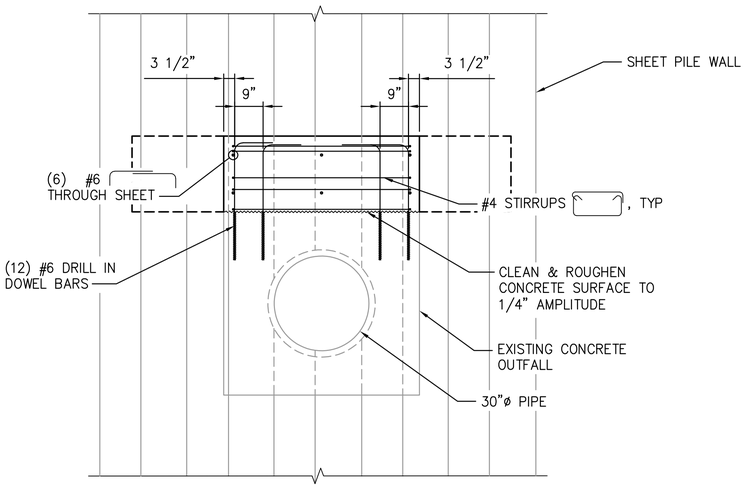
ELEVATION
SCALE: 3/8" = 1'–0"



1 DETAIL
SCALE: 1" = 1'–0"



A SECTION
SCALE: 1/2" = 1'–0"



B SECTION
SCALE: 1/2" = 1'–0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.8A

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		

PRINTED BY: smillett Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
OUTFALL #2 MODIFICATION

TOWNSHIP:		RANGE:	
SECTION:			
DAT–HRZ:	WA83–SF	VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:		DRAWING SCALE:	AS NOTED

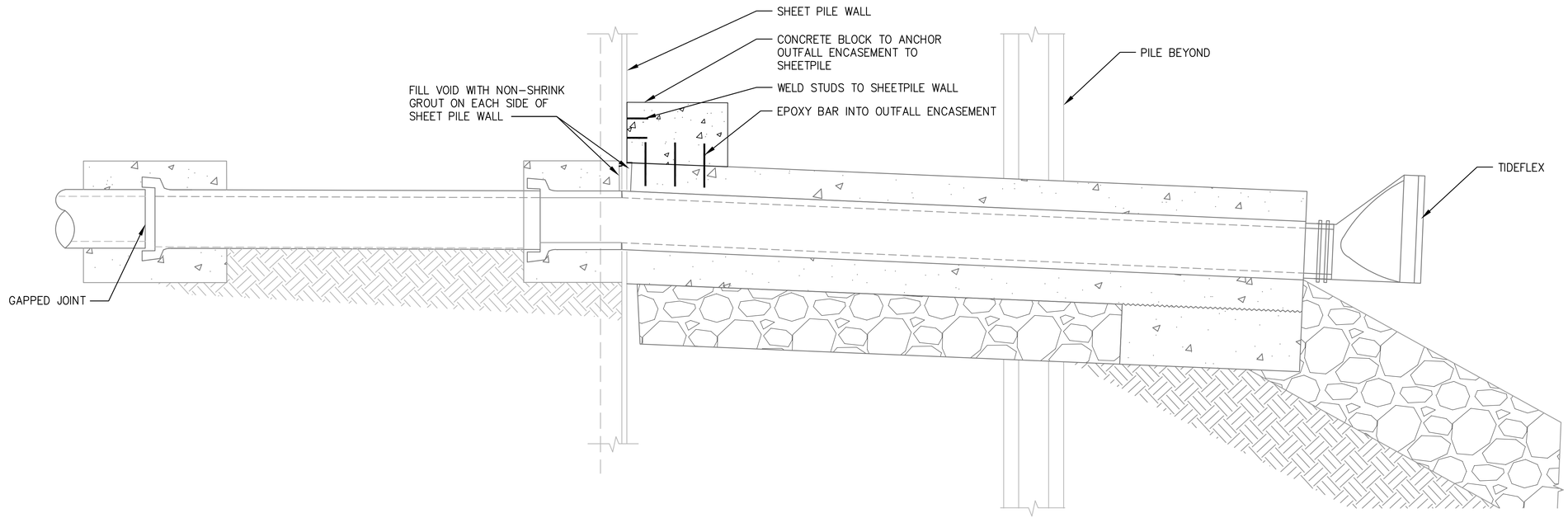
6552
C5.8A
SH 83.1 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.8B (Anchor Outfall & Sleeve Pipe detail

BINDING EDGE



INSTALLATION

ANCHOR OUTFALL & SLEEVE PIPE

3

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353581

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR, ENG. DATE | CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: smillett Jul 20, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

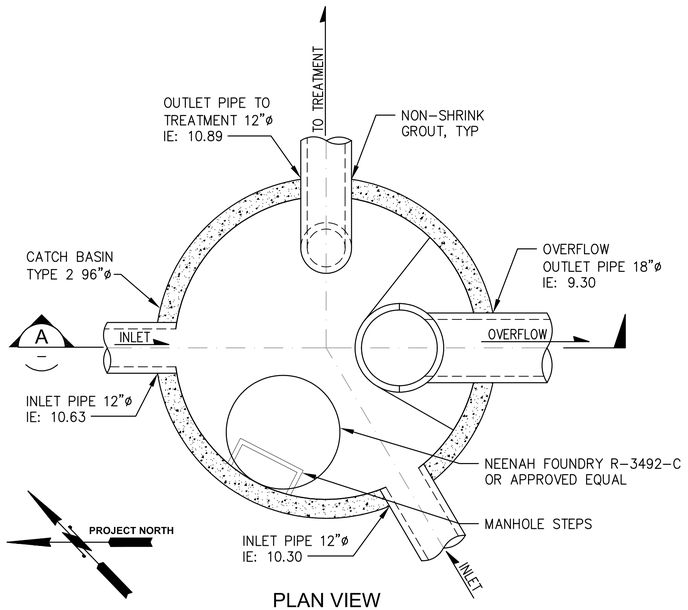
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
OUTFALL # 3 REPAIR

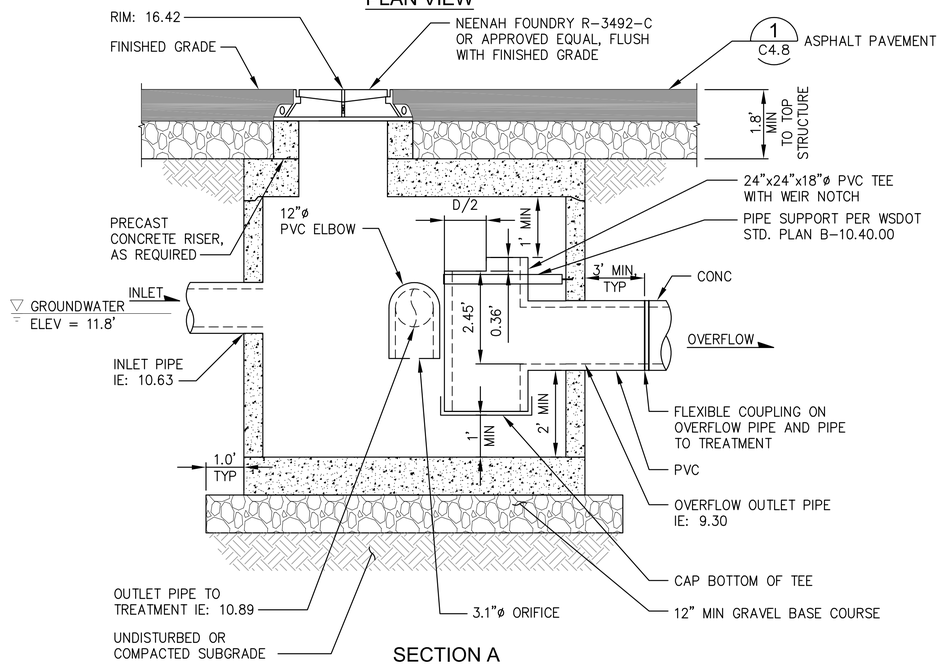
CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:		

6552
C5.8B
SH 83.2 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



PLAN VIEW

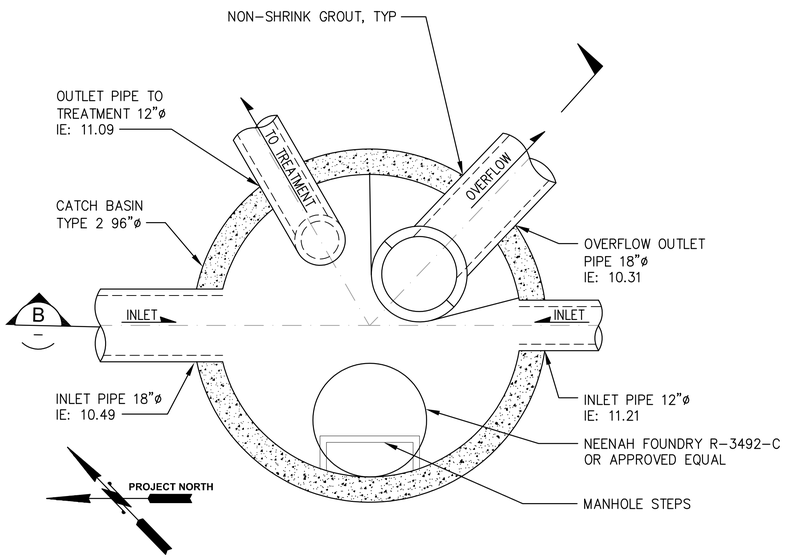


SECTION A

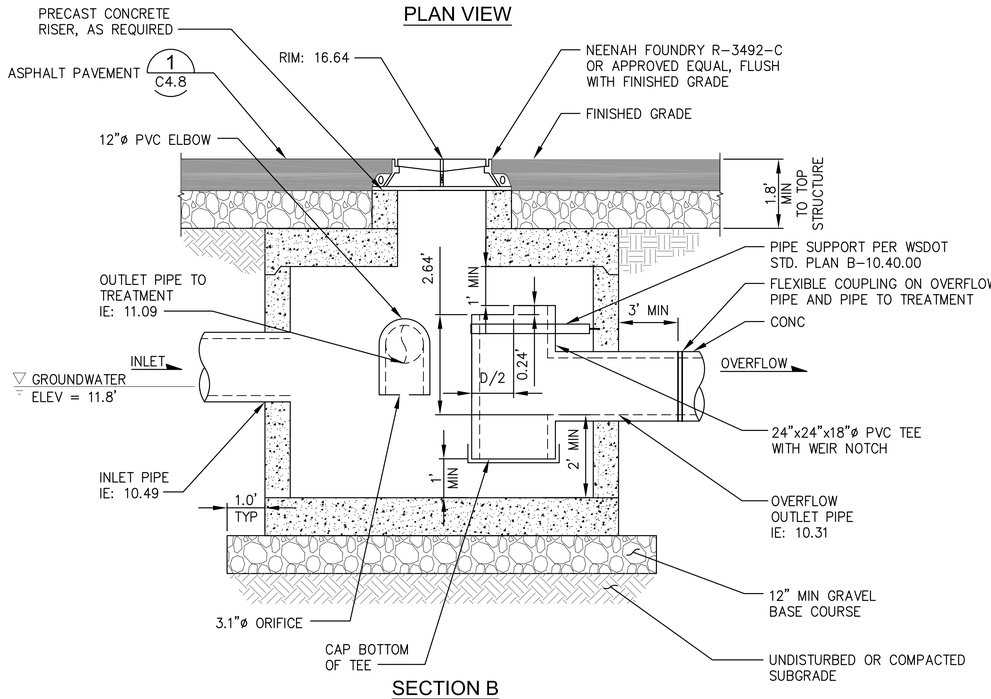
NOTES:
1. FLOW SPLITTER SHALL BE CONTRACTOR DESIGNED TO THE INTERIOR DIMENSIONS SHOWN AND TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
2. LOCATION SHALL BE PER PLAN.
3. THE RISER SHALL NOT BLOCK OR RESTRICT THE CLIMBING SPACE AREA.

FLOW SPLITTER #1 STRUCTURE DETAIL

1 — C5.2, C5.5, C5.7 — SCALE: 1"=2'



PLAN VIEW



SECTION B

NOTES:
1. FLOW SPLITTER SHALL BE CONTRACTOR DESIGNED TO THE INTERIOR DIMENSIONS SHOWN AND TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4.
2. LOCATION SHALL BE PER PLAN.
3. THE RISER SHALL NOT BLOCK OR RESTRICT THE CLIMBING SPACE AREA.

FLOW SPLITTER #2 STRUCTURE DETAIL

2 — C5.2, C5.6, C5.7 — SCALE: 1"=2'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE DETAILS - SHEET 2

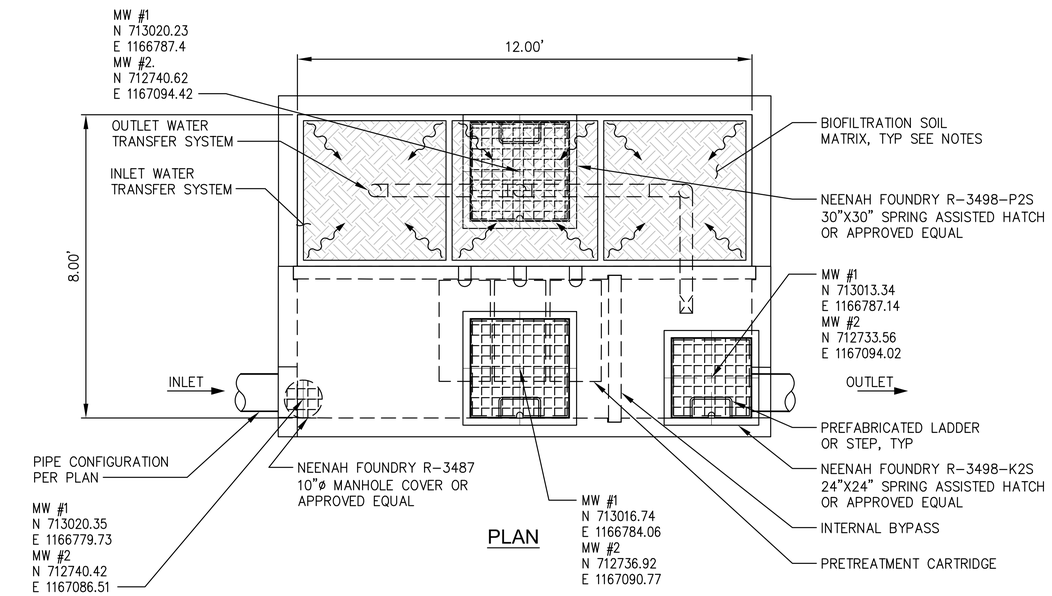
CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:

PROJ. ENGR	DATE
PRINTED BY:	smillett Jul 17, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837
MLLW 19.39' @ Tide 22 1933	
AS NOTED	

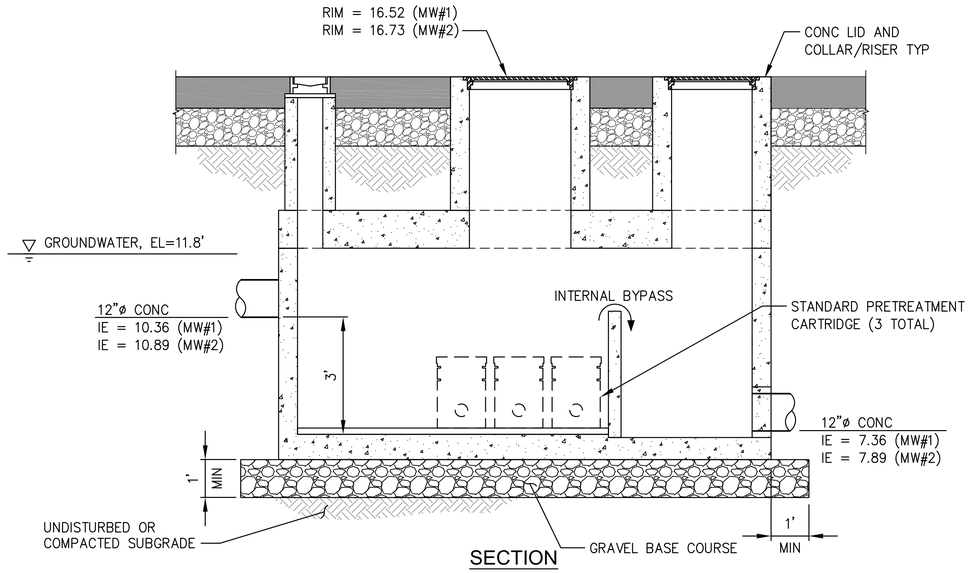
6552
C5.9
SH 84 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\0912251-C5.8-C5.9-C5.10-C5.11-C5.12 (Drainage Details)



PLAN



SECTION

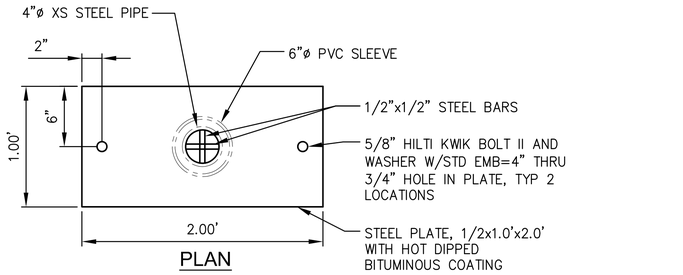
MODULAR WETLANDS TREATMENT REQUIREMENTS
FLOW RATES
PEAK TREATMENT FLOW RATE = 0.33 CFS OR 151 GPM
BIOFILTRATION CHAMBER SURFACE AREA CALCS
WETLAND MEDIA LOADING RATE 151 GPM / 150.96 SF = 1.00 GPM/SF
PRETREATMENT FILTER SURFACE AREA CALCS
PRETREATMENT FILTER LOADING RATE 151 GPM / 75 SF = 2.1 GPM/SF

NOTES:

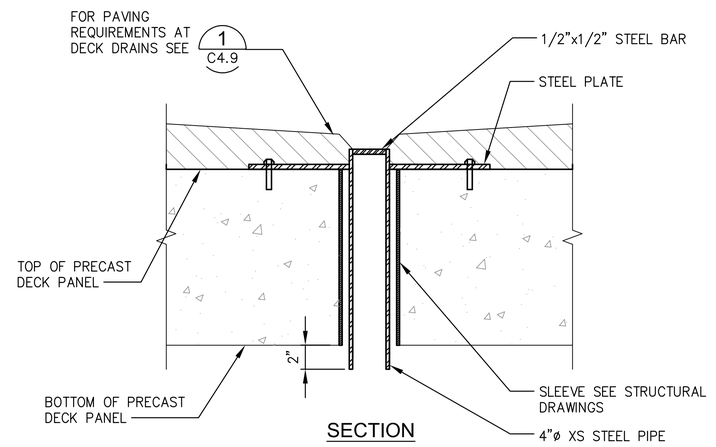
1. INSTALL UNIT ON LEVEL BED OF GRAVEL BASE COURSE OF AT LEAST 1' IN DEPTH ON COMPACTED SUBGRADE WITH 1' MINIMUM OVER EXCAVATION AROUND ENTIRE UNIT.
2. MODULAR WETLAND STRUCTURE SHALL BE MANUFACTURER DESIGNED TO SUPPORT THE LOADS SHOWN IN THE STRUCTURE SCHEDULE ON SHEET C5.4, AND WEIGHTED TO WITHSTAND THE BUOYANCY FORCE WHEN THE STRUCTURE IS EMPTY AND GROUNDWATER ELEVATION IS AS SHOWN.
3. ALL INTERNAL COMPONENTS INCLUDING PRETREATMENT CARTRIDGE, WATER TRANSFER SYSTEM, AND BIOFILTRATION CHAMBER SORPTIVE MEDIA SHALL BE DESIGNED BY THE MANUFACTURER PER THE TREATMENT REQUIREMENTS INDICATED.

MW # 1 & 2 MODULAR WETLAND MWS-L-8-12-UG-V

1 C5.2, C5.5, C5.7 SCALE: 1"=2'



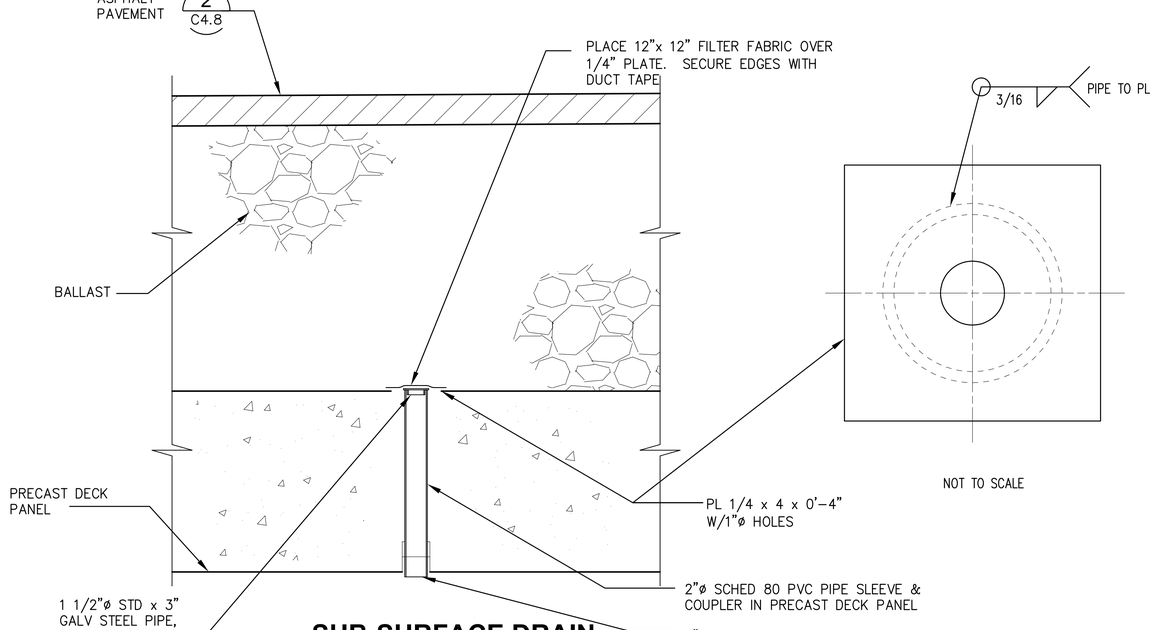
PLAN



SECTION

2 DECK DRAIN DETAIL

C4.9 TO C4.10, C5.1 TO C5.3, S5.1 SCALE: NTS



3 SUB-SURFACE DRAIN DECK DRAIN DETAIL

S5.1 SCALE: NTS

RECORD DRAWINGS

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.8-C5.9-C5.10-C5.11-C5.12 (Drainage Details)

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		
PRINTED BY:	smillett	Jul 16, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE DETAILS - SHEET 3

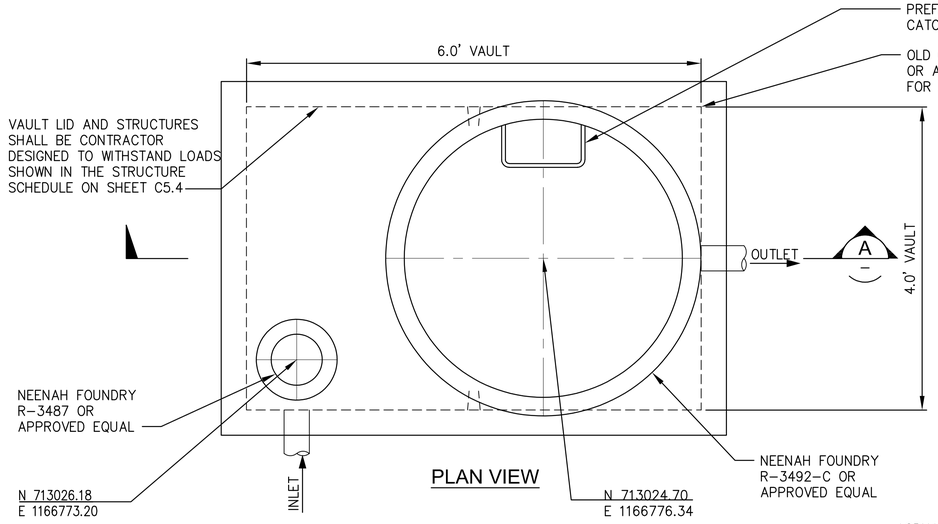
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION:			

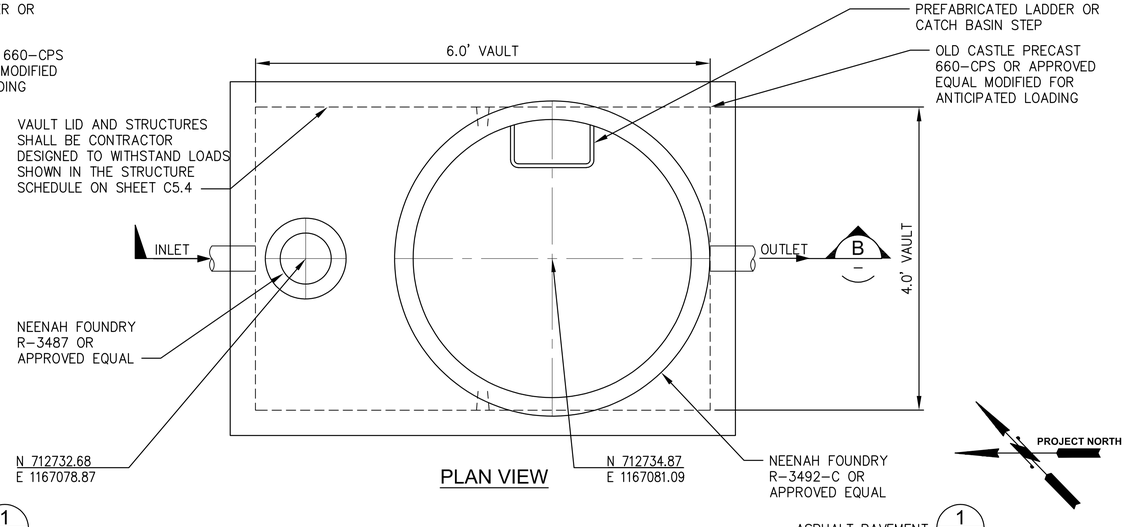
6552
C5.10
SH 85 OF 499

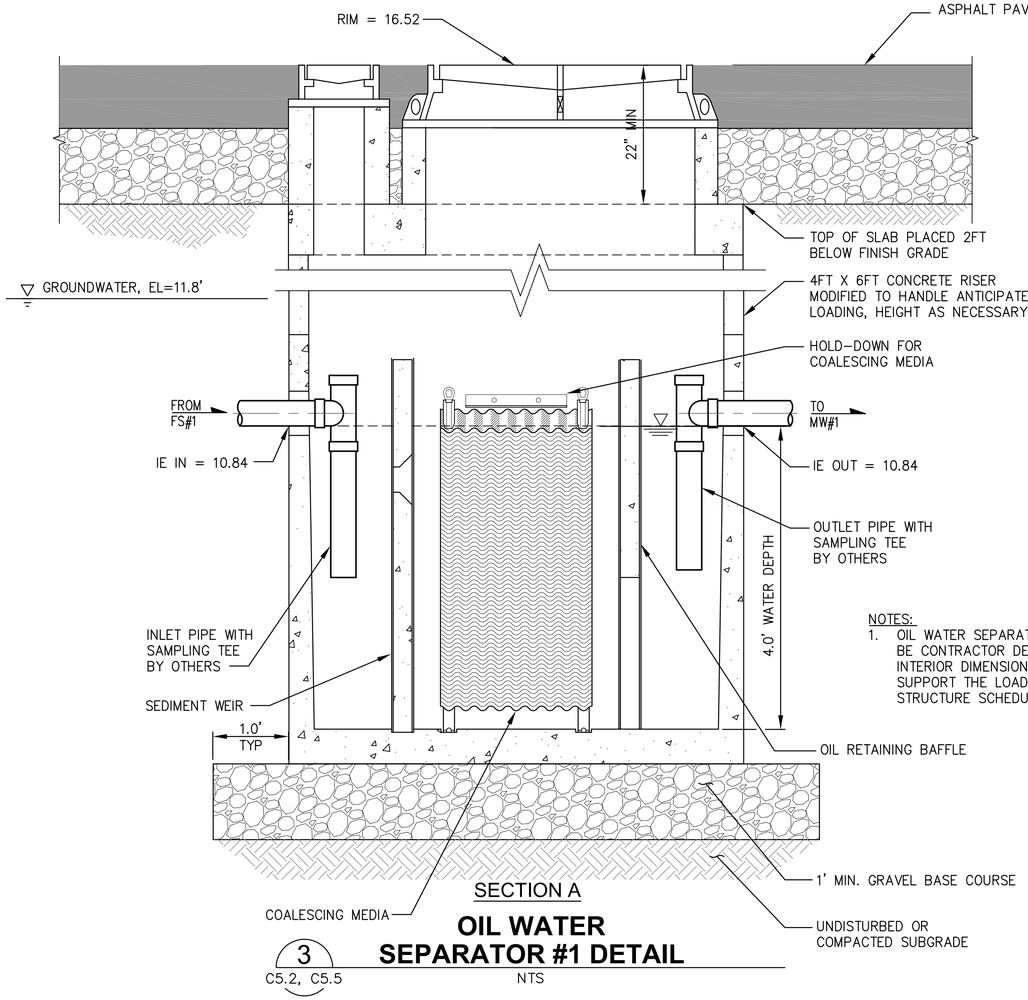
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.8-C5.9-C5.10-C5.11-C5.12 (Drainage Details)



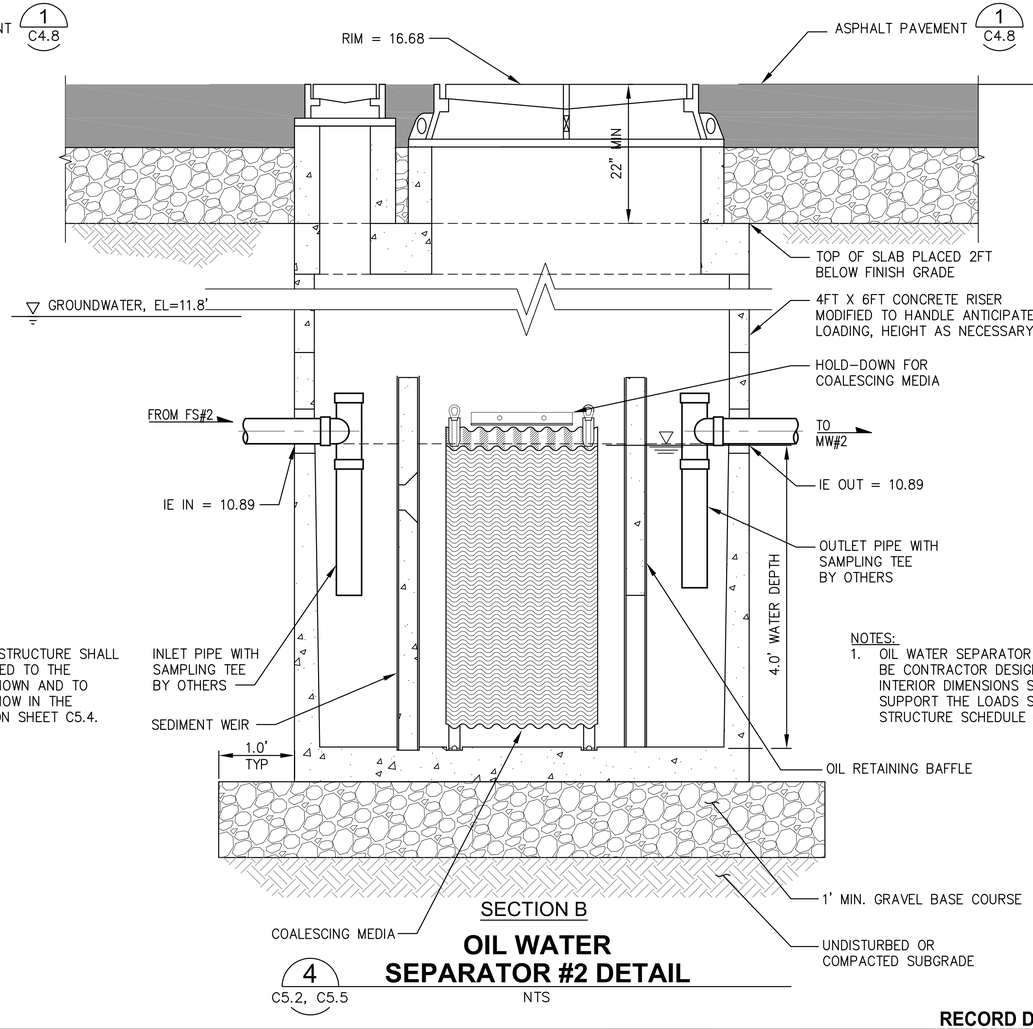




NOTES:
1. OIL WATER SEPARATOR STRUCTURE SHALL BE CONTRACTOR DESIGNED TO THE INTERIOR DIMENSIONS SHOWN AND TO SUPPORT THE LOADS SHOW IN THE STRUCTURE SCHEDULE ON SHEET C5.4.

OIL WATER SEPARATOR #1 DETAIL

3 — C5.2, C5.5 — NTS



NOTES:
1. OIL WATER SEPARATOR STRUCTURE SHALL BE CONTRACTOR DESIGNED TO THE INTERIOR DIMENSIONS SHOWN AND TO SUPPORT THE LOADS SHOW IN THE STRUCTURE SCHEDULE ON SHEET C5.4.

OIL WATER SEPARATOR #2 DETAIL

4 — C5.2, C5.5 — NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

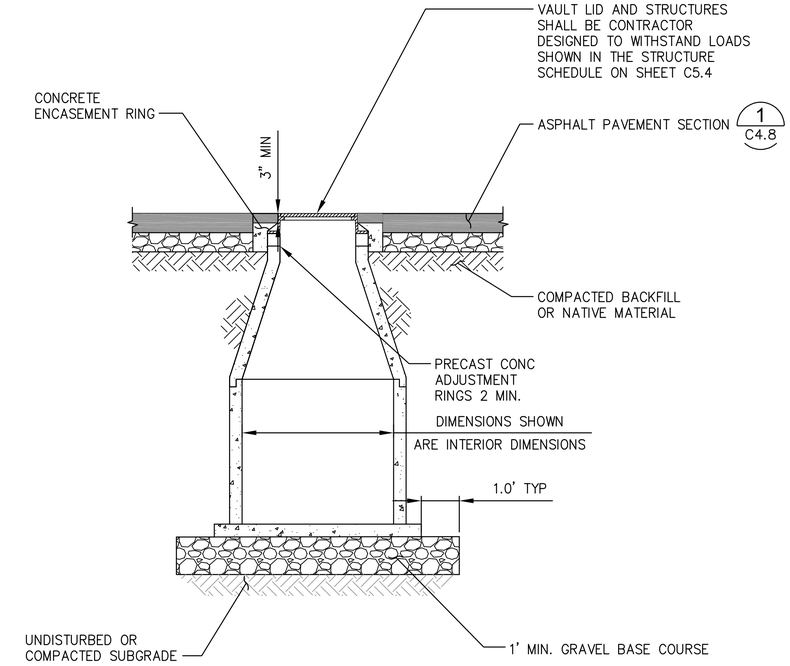
PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE DETAILS - SHEET 4

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: smillett Jul 16, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

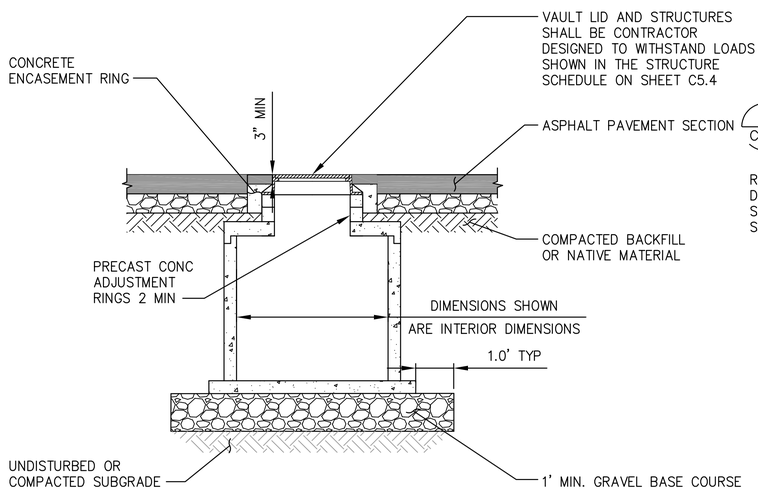
6552
C5.11
SH 86 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



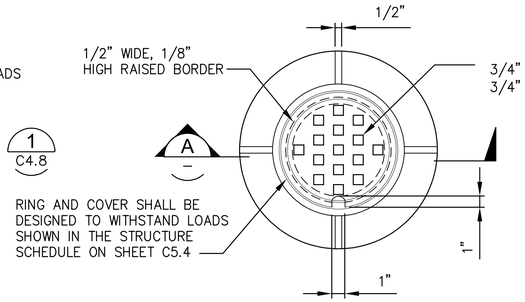
TYPICAL MANHOLE INSTALLATION DETAIL

1 C5.1, C5.2, C5.3 NTS

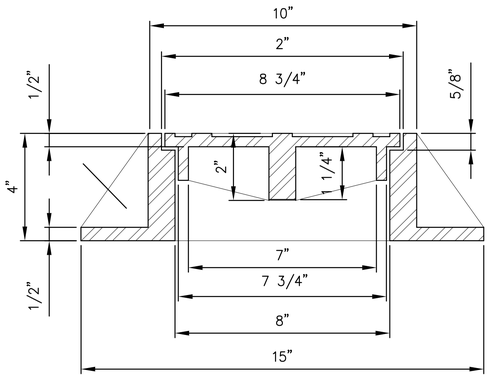


TYPICAL CATCH BASIN INSTALLATION DETAIL

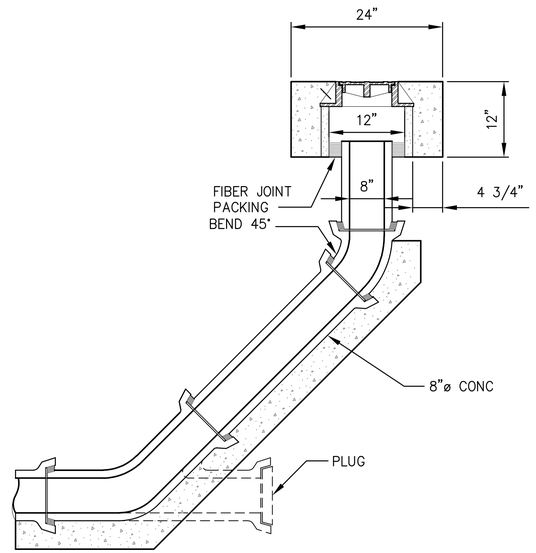
2 C5.1, C5.2, C5.3 NTS



PLAN



SECTION A



STORM DRAIN CLEANOUT

3 C5.3 NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

APPROVED:

PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DRAINAGE DETAILS - SHEET 5

TOWNSHIP:	RANGE:	SECTION:
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PARCEL:	DRAWING SCALE: AS NOTED	

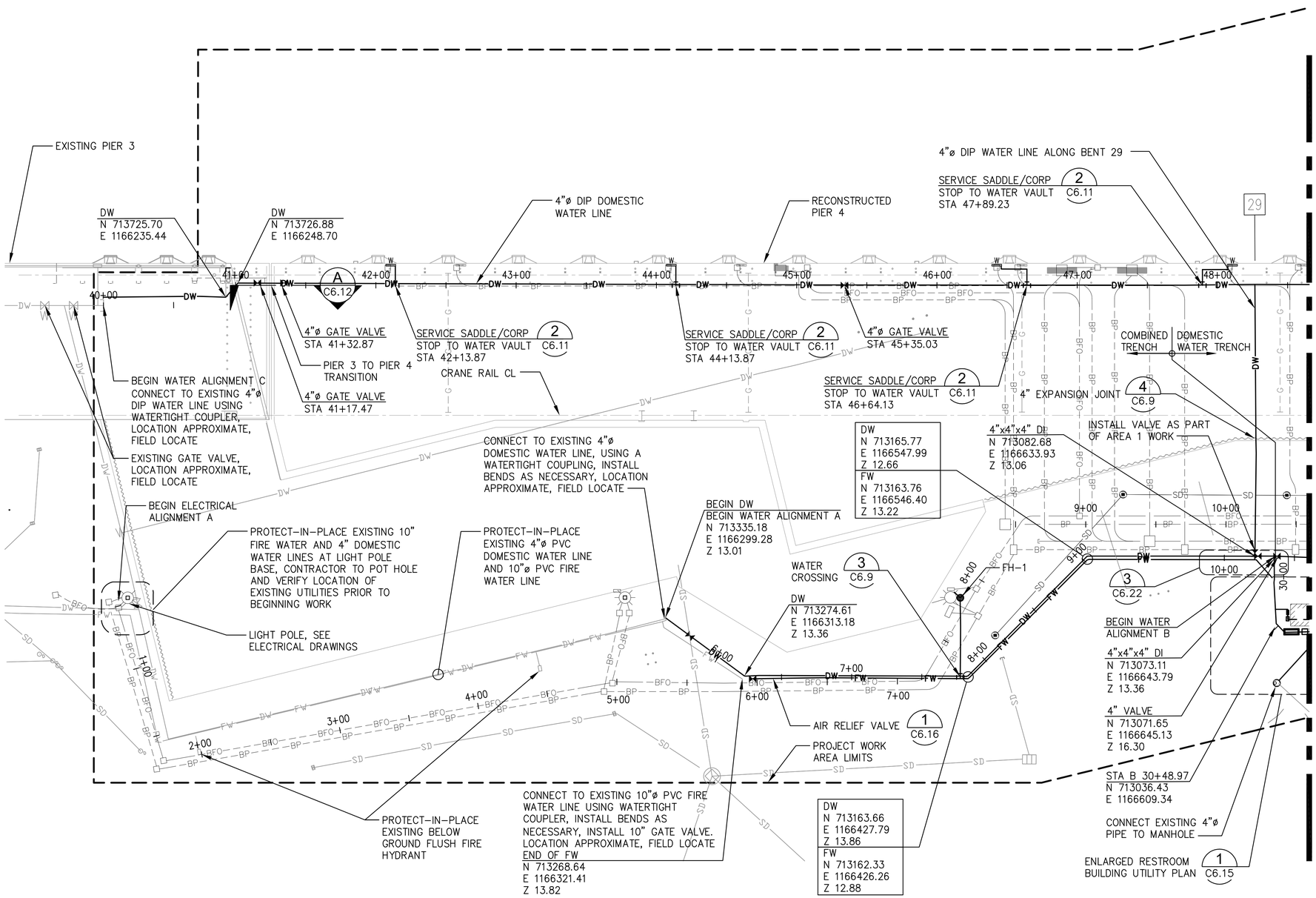
6552
C5.12
SH 87 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C5.8-C5.9-C5.10-C5.11-C5.12 (Drainage Details)



UTILITY PLAN

SCALE: 1"=40'

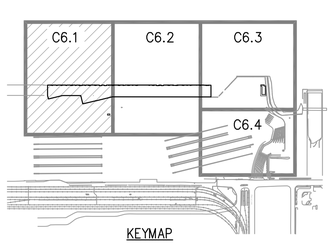
NOTES

1. SEE SHEET C6.5 FOR HYDRANT SCHEDULE. SEE PROFILES FOR FITTING TYPES.
2. FIRE HYDRANT GATE VALVES ARE NOT SHOWN FOR CLARITY. SEE 2 C6.10 FOR VALVE LOCATION.
3. CONCRETE THRUST BLOCKS ARE NOT SHOWN FOR CLARITY. THRUST BLOCKS TO BE CONSTRUCTED PER 1 C6.14 AND 2 C6.14
4. LANDSIDE OF THE BULKHEAD WHERE THE DOMESTIC WATER LINE CLOSELY PARALLELS THE FIRE LINE, THE PIPE SHALL BE CONSTRUCTED IN A COMBINED WATER PIPE TRENCH PER 1 C6.10
5. LANDSIDE OF THE BULKHEAD WHERE THERE IS A SINGLE DOMESTIC OR FIRE WATER LINE THE PIPE SHALL BE CONSTRUCTED PER 1 C6.9
6. SEE SHEETS C6.6 – C6.8 FOR WATER LINE PROFILES.
7. CONTRACTOR SHALL RECHANNEL EXISTING MANHOLE TO ACCOMMODATE NEW 6"ø DIP PENETRATION.
8. SEE SHEET C6.18 FOR SANITARY SEWER PROFILE.
9. SEE SHEETS C6.19–C6.21 FOR TYPICAL ELECTRICAL DUCT BANK PROFILE.

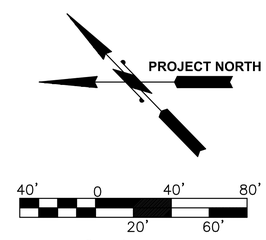
10.Z VALUE PROVIDES TOP OF PIPE ELEVATION.

LEGEND

- PROJECT WORK AREA LIMITS
- FW — FIRE WATER LINE
- DW — DOMESTIC WATER LINE
- W — COMBINED WATER LINE
- SS — SANITRY SEWER GRAVITY LINE
- SSFM — SANITRY SEWER FORCE MAIN
- 6" FIRE HYDRANT ASSEMBLY 2 C6.10
- W — BULL RAIL UTILITY VAULT – WATER 1 C6.13
- GATE VALVE 2 C6.9
- SD — STORM DRAINAGE STRUCTURES AND PIPING, SEE DRAINAGE PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- BFO / BP — ELECTRICAL AND COMMUNICATION VAULTS AND DUCTBANKS, SEE ELECTRICAL PLANS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE	CHECKED BY	DATE

PIER 4 PHASE 2
RECONFIGURATION
UTILITY PLAN - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

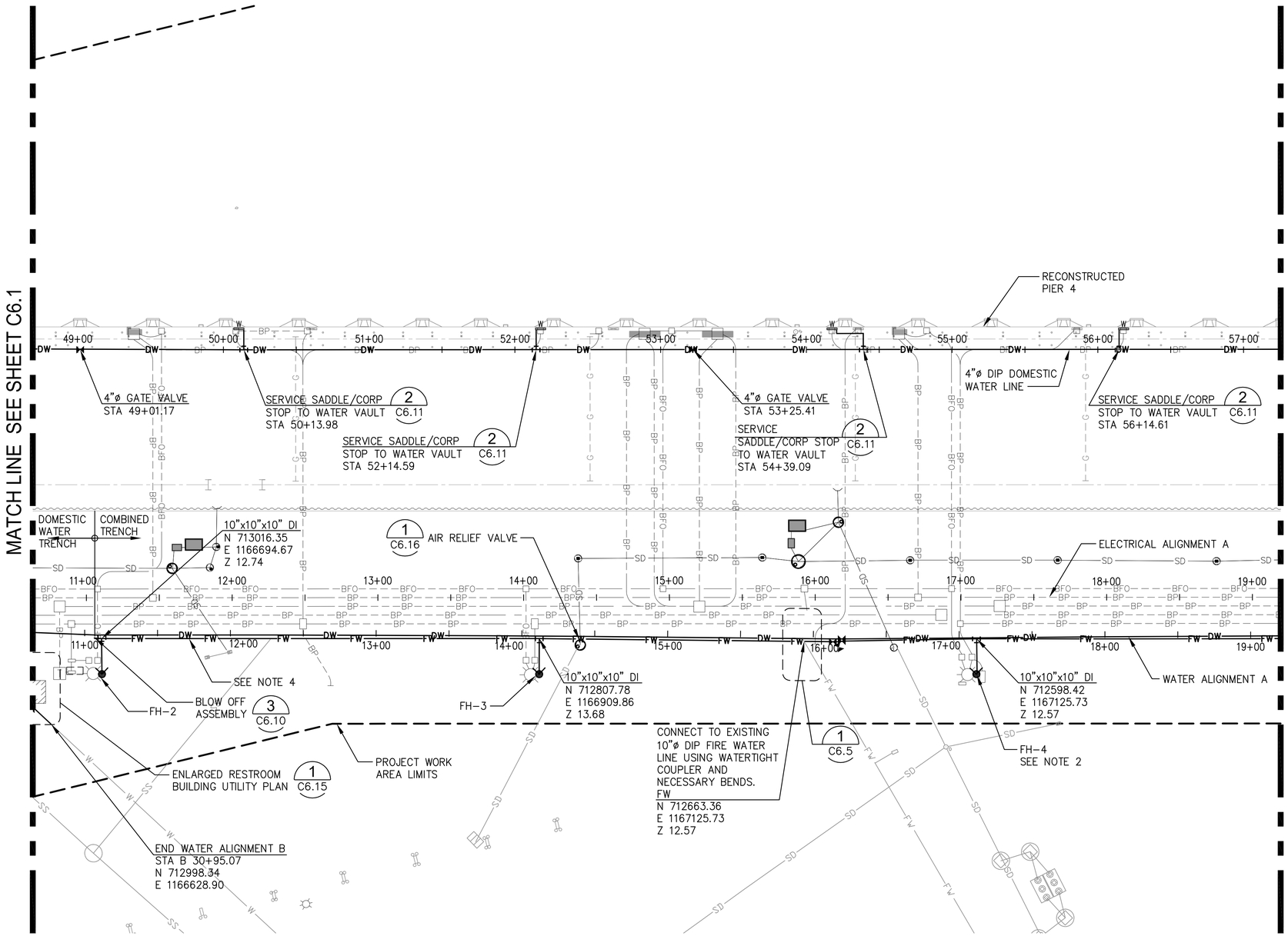
PRINTED BY: kvang Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837
SECTION:

6552
C6.1
SH 88 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

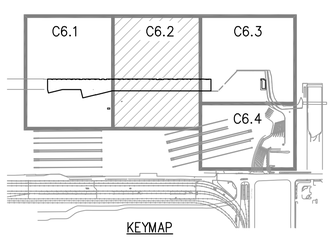
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.1-C6.2-C6.3-C6.4 (Water Plan)

BINDING EDGE



UTILITY PLAN

SCALE: 1"=40'

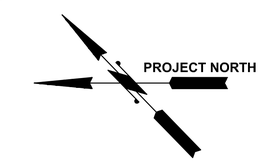


NOTES

1. SEE SHEET C6.5 FOR HYDRANT SCHEDULE. SEE PROFILES FOR FITTING TYPES.
2. FIRE HYDRANT GATE VALVES ARE NOT SHOWN FOR CLARITY. SEE 2 C6.10 FOR VALVE LOCATION.
3. CONCRETE THRUST BLOCKS ARE NOT SHOWN FOR CLARITY. THRUST BLOCKS TO BE CONSTRUCTED PER 1 C6.14 AND 2 C6.14
4. LANDSIDE OF THE BULKHEAD WHERE THE DOMESTIC WATER LINE CLOSELY PARALLELS THE FIRE LINE, THE PIPE SHALL BE CONSTRUCTED IN A COMBINED WATER PIPE TRENCH PER 1 C6.10
5. LANDSIDE OF THE BULKHEAD WHERE THERE IS A SINGLE DOMESTIC OR FIRE WATER LINE THE PIPE SHALL BE CONSTRUCTED PER 1 C6.9
6. SEE SHEETS C6.6 – C6.8 FOR WATER LINE PROFILES.
7. CONTRACTOR SHALL RECHANNEL EXISTING MANHOLE TO ACCOMMODATE NEW 6"ø DIP PENETRATION.
8. SEE SHEET C6.18 FOR SANITARY SEWER PROFILE.
9. SEE SHEETS C6.19–C6.21 FOR TYPICAL ELECTRICAL DUCT BANK PROFILE.
10. Z VALUE PROVIDES TOP OF PIPE ELEVATION.

LEGEND

- PROJECT WORK AREA LIMITS
- FW — FIRE WATER LINE
- DW — DOMESTIC WATER LINE
- W — COMBINED WATER LINE
- SS — SANITRY SEWER GRAVITY LINE
- SSFM — SANITRY SEWER FORCE MAIN
- 6" FIRE HYDRANT ASSEMBLY 2 C6.10
- W — BULL RAIL UTILITY VAULT – WATER 1 C6.13
- GATE VALVE 2 C6.9
- SD — STORM DRAINAGE STRUCTURES AND PIPING, SEE DRAINAGE PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- T — BFO — BP — ELECTRICAL AND COMMUNICATION VAULTS AND DUCTBANKS, SEE ELECTRICAL PLANS



SCALE: 1"=40'

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
	BLDG RELOC			

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: kvang Jul 17, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
UTILITY PLAN - SHEET 2

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
C6.2
SH 89 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.1-C6.2-C6.3-C6.4 (Water Plan)

BINDING EDGE

MATCH LINE SEE SHEET C6.2

SERVICE SADDLE/CORP STOP TO WATER VAULT
STA 57+64.43
4"ø GATE VALVE
STA 58+08.61
HDPE TO DIP TRANSITION
STA 58+26.66
N 713335.40
E 1166298.14
(2 C6.11)

4"ø HDPE DOMESTIC WATER LINE CONSTRUCTED IN 6" PIPE SLEEVE LOCATED IN PILE CAP (3 C6.12)

4"ø DIP DOMESTIC WATER LINE

4"ø EXPANSION JOINT (4 C6.9)
4"ø GATE VALVE
STA 59+47.08
N 712438.64
E 1167402.41

4"ø DW
10"ø FW

(2 C6.5)

6" FLUSH FIRE HYDRANT FH-5 (1 C6.11)
N 712389.20
E 1167340.52

DW
N 712388.10
E 1167431.90
Z 11.60
FW
N 712385.82
E 1167431.17
Z 11.99

END WATER ALIGNMENT C
STA A 20+20.03
STA C 60+31.05

DW
N 712385.16
E 1167349.99
Z 11.95
FW
N 712383.21
E 1167348.28
Z 12.40

PROTECT-IN-PLACE EXISTING BELOW GROUND FLUSH FIRE HYDRANT

DW
N 712259.22
E 1167637.11
Z 12.22
FW
N 712256.55
E 1167620.23
Z 12.66

EXISTING 12" DOUBLE CHECK VALVE
N 712204.42
E 1167675.35
Z 17.78

DW
N 712259.22
E 1167637.11
Z 12.22
FW
N 712256.55
E 1167620.23
Z 12.66

FIRE WATER CONNECTION ENLARGED PLAN (1 C6.22)

FH-6, SEE NOTE 2
N 712138.92
E 1167528.39
Z 16.66

EXISTING 10" FIRE WATER METER

12"ø DI

CONNECT TO SANITARY LINES FROM MARINE BUILDING

DW
N 712162.27
E 1167892.14
Z 13.63
FW
N 712159.36
E 1167892.54
Z 14.08

DW
N 712092.20
E 1167823.63
Z 13.67
FW
N 712090.17
E 1167822.67
Z 14.16

DW
N 712092.35
E 1167814.89
Z 13.83
FW
N 712090.15
E 1167814.05
Z 14.35

WATER ALIGNMENT A

12"x10" DI REDUCER

ELECTRICAL ALIGNMENT A

PROJECT WORK AREA LIMITS

EXISTING 32"ø STEEL TPU WATER LINE

SEE SHEET G6.2 FOR INFORMATION ON WORK OUTSIDE PROJECT WORK LIMITS, TYP

3"ø DIP SSFM

EXIST WATERLINE
N 711950.56
E 1167778.26
Z 14.69

EXIST DUCTBANK
N 711952.87
E 1167722.18
Z 16.66

EXIST VAULTS, SEE E3.5

FH-7

DW
N 712125.60
E 1167930.27
Z 13.89
FW
N 712119.33
E 1167921.86
Z 14.17

(1 C6.17) MARINE BUILDING UTILITY PLAN

INSTALLED 10" TO 4" REDUCER THEN 4" VALVE AT END OF FIRELINE

CLEANOUT
N 712083.88
E 1167923.89

6"ø DIP SS

CLEANOUT
N 712040.92
E 1167876.97

ELECTRICAL SUBSTATION, SEE ELECTRICAL DRAWINGS

RELOCATED EXISTING FIRE HYDRANT

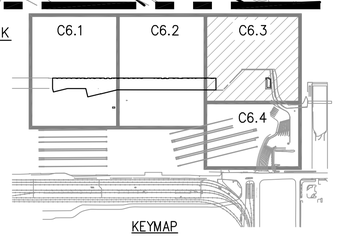
SSMH
N 711957.95
E 1167802.51
Z 19.16

SANITARY SEWER LIFT STATION
N 711951.75
E 1167792.17
Z 19.10

LIFT STATION VALVE BOX LOCATE WITHIN BOLLARD CAGE ADJACENT TO LIFT STATION, SEE SHEET C7.4 FOR BOLLARD LAYOUT
N 711956.22
E 1167784.82
Z 19.14

MATCH LINE SEE SHEET C6.4

UTILITY PLAN
SCALE: 1"=40'



KEYMAP

NOTES

1. SEE SHEET C6.5 FOR HYDRANT SCHEDULE. SEE PROFILES FOR FITTING TYPES.
2. FIRE HYDRANT GATE VALVES ARE NOT SHOWN FOR CLARITY. SEE (2 C6.10) FOR VALVE LOCATION.
3. CONCRETE THRUST BLOCKS ARE NOT SHOWN FOR CLARITY. THRUST BLOCKS TO BE CONSTRUCTED PER (1 C6.14) AND (2 C6.14)
4. LANDSIDE OF THE BULKHEAD WHERE THE DOMESTIC WATER LINE CLOSELY PARALLELS THE FIRE LINE, THE PIPE SHALL BE CONSTRUCTED IN A COMBINED WATER PIPE TRENCH PER (1 C6.10)
5. LANDSIDE OF THE BULKHEAD WHERE THERE IS A SINGLE DOMESTIC OR FIRE WATER LINE THE PIPE SHALL BE CONSTRUCTED PER (1 C6.9)
6. SEE SHEETS C6.6 – C6.8 FOR WATER LINE PROFILES.
7. CONTRACTOR SHALL RECHANNEL EXISTING MANHOLE TO ACCOMMODATE NEW 6"ø DIP PENETRATION.
8. SEE SHEET C6.18 FOR SANITARY SEWER PROFILE.
9. SEE SHEETS C6.19–C6.21 FOR TYPICAL ELECTRICAL DUCT BANK PROFILE.
10. Z VALUE PROVIDES TOP OF PIPE ELEVATION.

LEGEND

- PROJECT WORK AREA LIMITS
- FW — FIRE WATER LINE
- DW — DOMESTIC WATER LINE
- W — COMBINED WATER LINE
- SS — SANITRY SEWER GRAVITY LINE
- SSFM — SANITRY SEWER FORCE MAIN
- 6" FIRE HYDRANT ASSEMBLY (2 C6.10)
- BULL RAIL UTILITY VAULT – WATER (1 C6.13)
- GATE VALVE (2 C6.9)
- STORM DRAINAGE STRUCTURES AND PIPING, SEE DRAINAGE PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- ELECTRICAL AND COMMUNICATION VAULTS AND DUCTBANKS, SEE ELECTRICAL PLANS

PROJECT NORTH

40' 0 40' 80'
20' 60'
SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE
PROJ. ENGR DATE
DRAWN BY: kvang Jul 17, 2018

PIER 4 PHASE 2
RECONFIGURATION
UTILITY PLAN - SHEET 3

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY:
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

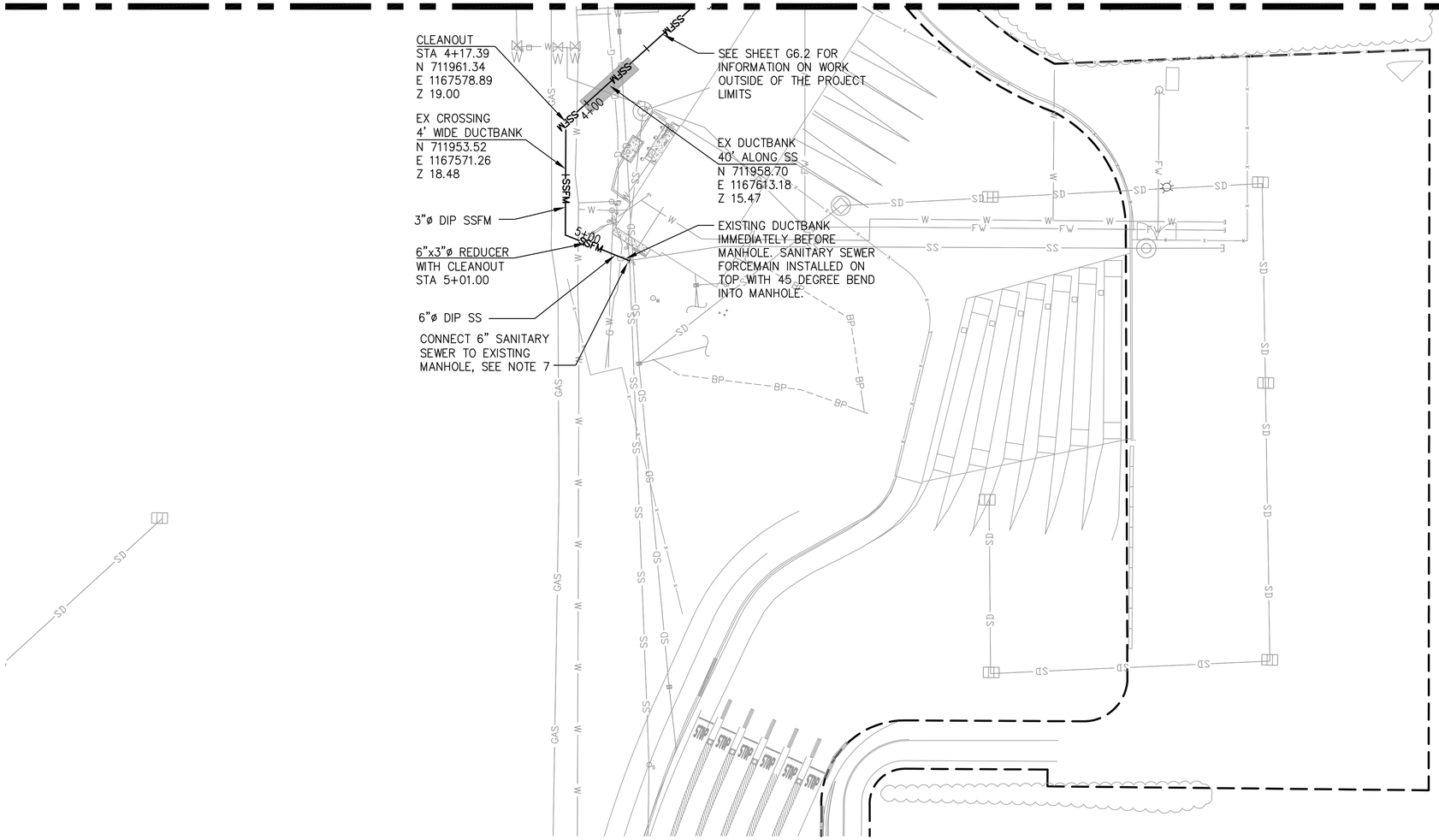
6552
C6.3
SH 90 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.1-C6.2-C6.3-C6.4 (Water Plan)

BINDING EDGE

MATCH LINE SEE SHEET C6.3



UTILITY PLAN

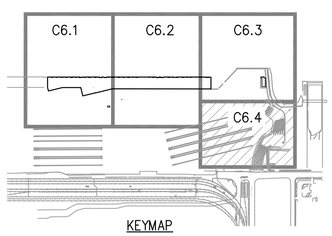
SCALE: 1"=40'

NOTES

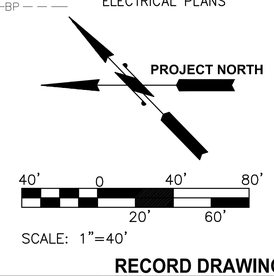
1. SEE SHEET C6.5 FOR HYDRANT SCHEDULE. SEE PROFILES FOR FITTING TYPES.
2. FIRE HYDRANT GATE VALVES ARE NOT SHOWN FOR CLARITY. SEE (2 / C6.10) FOR VALVE LOCATION.
3. CONCRETE THRUST BLOCKS ARE NOT SHOWN FOR CLARITY. THRUST BLOCKS TO BE CONSTRUCTED PER (1 / C6.14) AND (2 / C6.14)
4. LANDSIDE OF THE BULKHEAD WHERE THE DOMESTIC WATER LINE CLOSELY PARALLELS THE FIRE LINE, THE PIPE SHALL BE CONSTRUCTED IN A COMBINED WATER PIPE TRENCH PER (1 / C6.10)
5. LANDSIDE OF THE BULKHEAD WHERE THERE IS A SINGLE DOMESTIC OR FIRE WATER LINE THE PIPE SHALL BE CONSTRUCTED PER (1 / C6.9)
6. SEE SHEETS C6.6 – C6.8 FOR WATER LINE PROFILES.
7. CONTRACTOR SHALL RECHANNEL EXISTING MANHOLE TO ACCOMMODATE NEW 6"ø DIP PENETRATION.
8. SEE SHEET C6.18 FOR SANITARY SEWER PROFILE.
9. SEE SHEETS C6.19–C6.21 FOR TYPICAL ELECTRICAL DUCT BANK PROFILE.
10. Z VALUE PROVIDES TOP OF PIPE ELEVATION.

LEGEND

- PROJECT WORK AREA LIMITS
- FW — FIRE WATER LINE
- DW — DOMESTIC WATER LINE
- W — COMBINED WATER LINE
- SS — SANITRY SEWER GRAVITY LINE
- SSFM — SANITRY SEWER FORCE MAIN
- 6" FIRE HYDRANT ASSEMBLY (2 / C6.10)
- W — WATER VAULT (1 / C6.13)
- GATE VALVE (2 / C6.9)
- 6" FLUSH FIRE HYDRANT (1 / C6.11)
- SD — STORM DRAINAGE STRUCTURES AND PIPING, SEE DRAINAGE PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- T, BFO, BP — ELECTRICAL AND COMMUNICATION VAULTS AND DUCTBANKS, SEE ELECTRICAL PLANS



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE

PROJ. ENGR DATE
PRINTED BY: kvang Jul 17, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
UTILITY PLAN - SHEET 4

CONT/CONS:	0701136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
		RANGE:	
		VERT:	MLLW 19.39' @ Tide 22 1933
		DRAWING SCALE:	AS NOTED
		SECTION:	

6552
C6.4
SH 91 OF 499

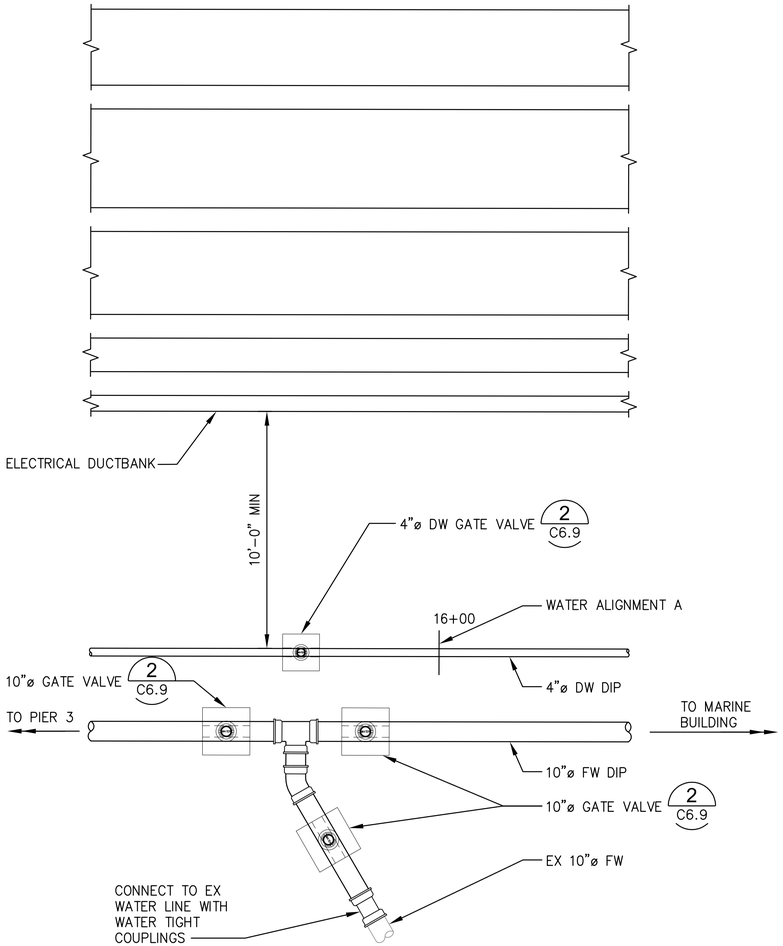
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.1-C6.2-C6.3-C6.4 (Water Plan)

BINDING EDGE

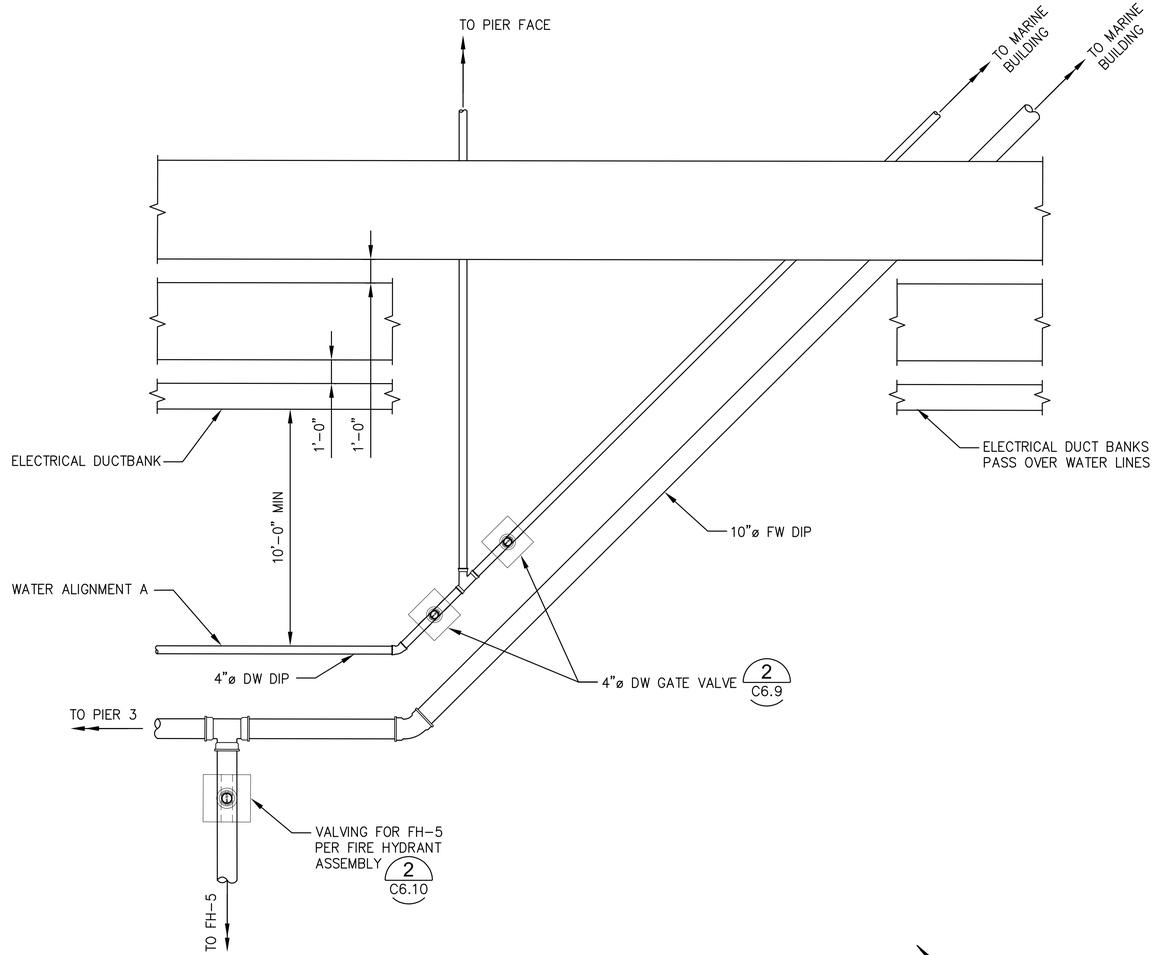
FIRE HYDRANT SCHEDULE

STRUCTURE I.D.	FITTING TYPE	NORTHING	EASTING	HYDRANT FACING
FH-1	FIRE HYDRANT ASSEMBLY	713207.45	1166462.40	EAST
FH-2	FIRE HYDRANT ASSEMBLY	712998.66	1166677.86	EAST
FH-3	FIRE HYDRANT ASSEMBLY	712789.88	1166893.28	EAST
FH-4	FIRE HYDRANT ASSEMBLY	712581.10	1167108.71	EAST
FH-5	FLUSH FIRE HYDRANT ASSEMBLY	712373.70	1167325.50	
FH-6	FIRE HYDRANT ASSEMBLY	712138.08	1167527.51	EAST
FH-7	FIRE HYDRANT ASSEMBLY	711969.64	1167798.93	EAST



CONNECTION TO EXISTING STA 15+93.96

1 C6.2 NTS



FIRE HYDRANT AND PIER WATER SERVICE CONNECTION

2 C6.3 NTS

PROJECT NORTH

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
HYDRANT SCHEDULE AND ENLARGED PLAN

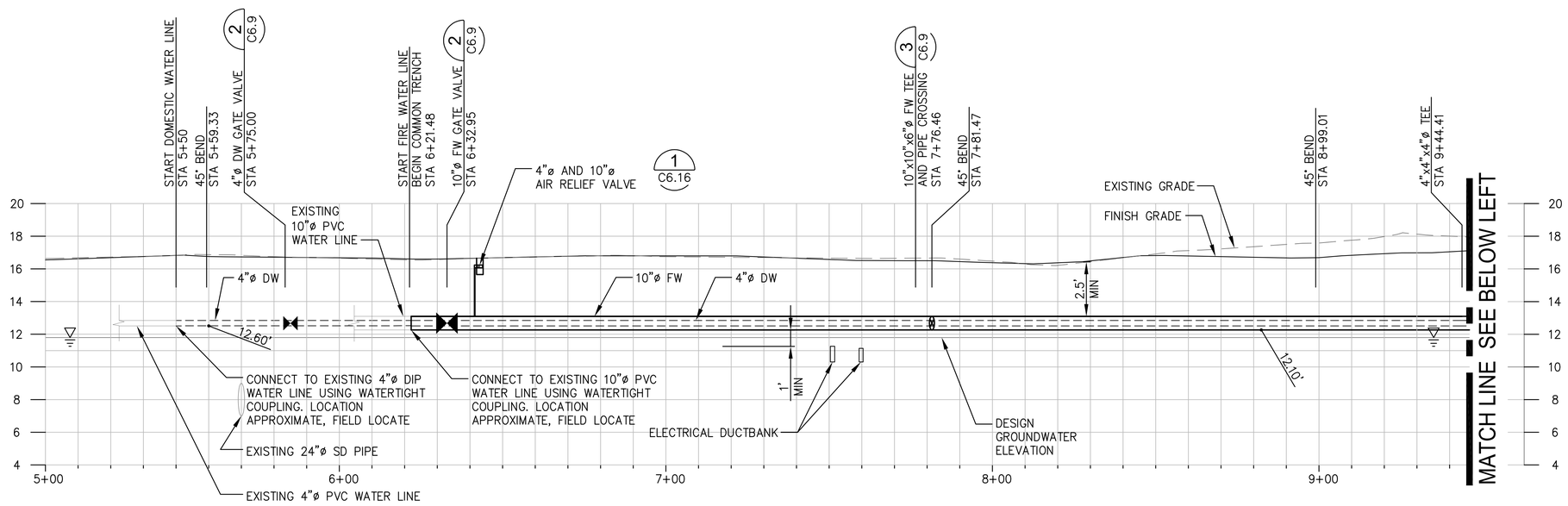
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: jbolton Jul 16, 2018 PROJ. ENGR DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
C6.5
SH 92 OF 499

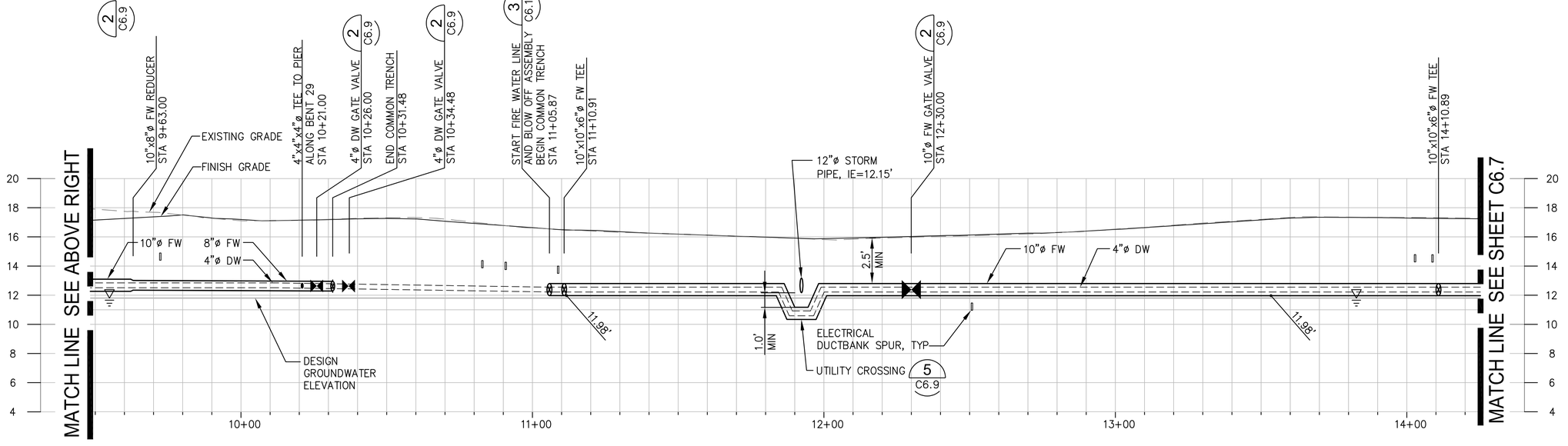
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.5 (Water Details)



A **WATER PROFILE A**

C6.1, C6.2, C6.3 SCALE: HORIZ: 1"=20', VERT: 1"=4'



A **WATER PROFILE A**

C6.1, C6.2, C6.3 SCALE: HORIZ: 1"=20', VERT: 1"=4'

NOTES

1. ELEVATIONS ARE IN MLLW.
2. POT–HOLE AND LOCATE EXISTING WATER PIPING TO BE CONNECTED TO. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.
3. DESIGN ELEVATIONS FOR WATER LINE SHOWN SEE SHEETS C6.1–C6.4 FOR AS BUILT WATERLINE ELEVATIONS

1"=4'–0" 4 0 4 8 Vertical Scale Feet

1"=20'–0" 20 0 20 40 Horizontal Scale Feet

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
WATER LINE PROFILES - SHEET 1

6552
C6.6
SH 93 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS:ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401–1837

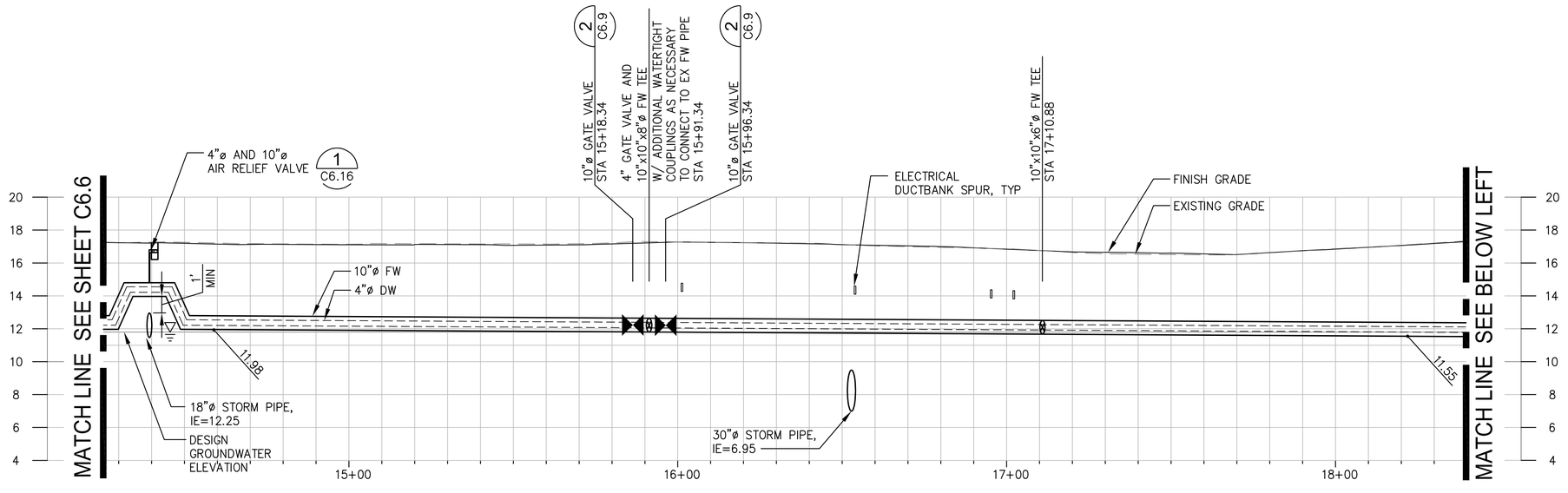
PRINTED BY: smillett Jul 20, 2018

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

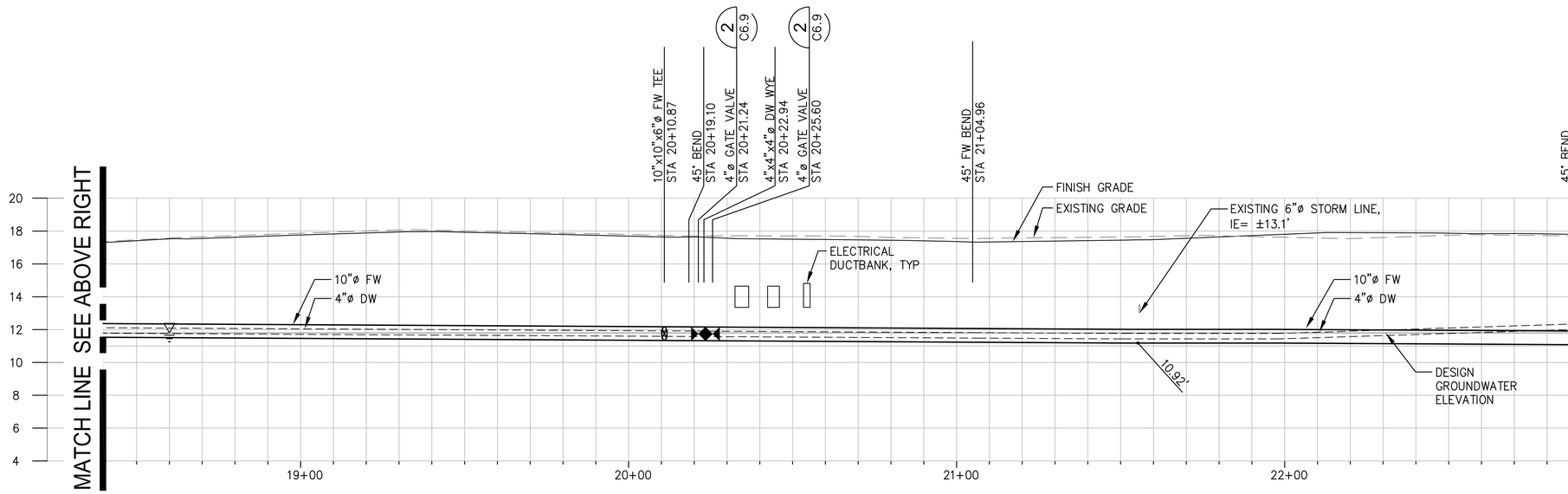
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.6-C6.7-C6.8 (Water Profiles)

BINDING EDGE



A WATER PROFILE A

C6.1, C6.2C6.3 SCALE: HORIZ:1"=20', VERT:1"=4'



A WATER PROFILE A

C6.1, C6.2C6.3 SCALE: HORIZ:1"=20', VERT:1"=4'

1"=4'-0" 4 0 4 8 Vertical Scale Feet

1"=20'-0" 20 0 20 40 Horizontal Scale Feet

RECORD DRAWINGS

NOTES

1. ELEVATIONS ARE IN MLLW.
2. POT-HOLE AND LOCATE EXISTING WATER PIPING TO BE CONNECTED TO. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.
3. DESIGN ELEVATIONS FOR WATER LINE SHOWN SEE SHEETS C6.1-C6.4 FOR AS BUILT WATERLINE ELEVATIONS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 20, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

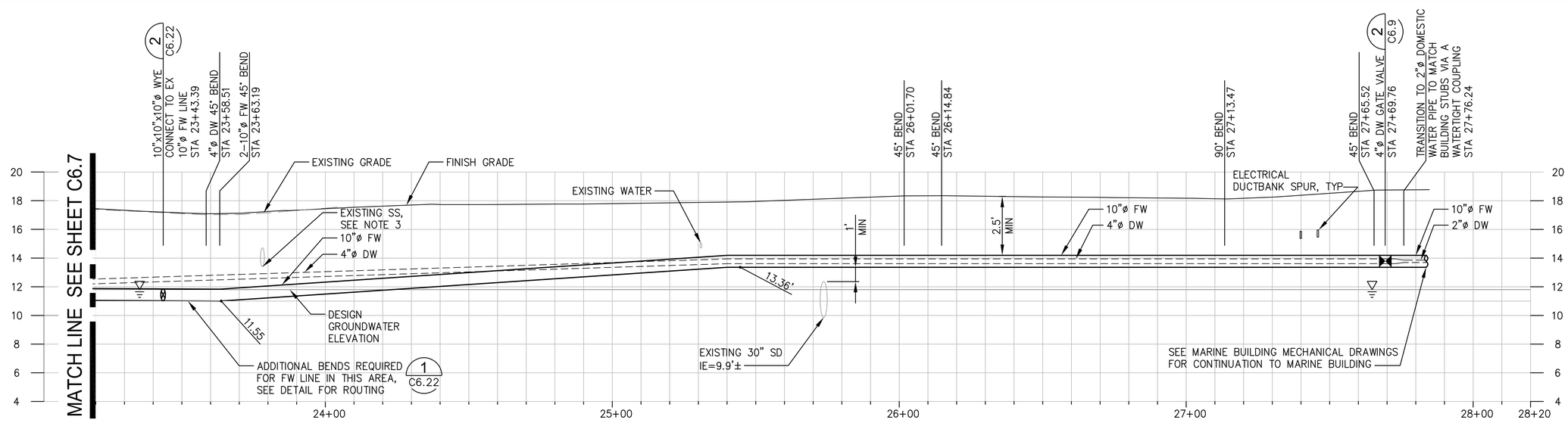
PIER 4 PHASE 2
RECONFIGURATION
WATER LINE PROFILES - SHEET 2

CONT/CONS:	0701.36	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C6.7
SH 94 OF 499

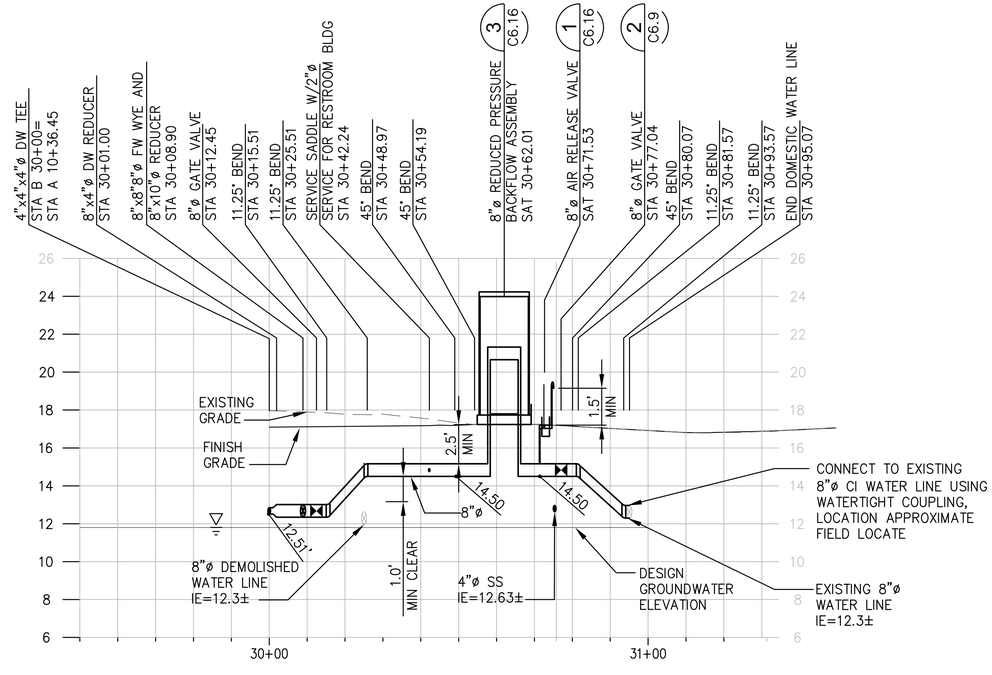
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.6-C6.7-C6.8 (Water Profiles)



A WATER PROFILE A

C6.1, C6.2, C6.3 SCALE: HORIZ: 1"=20', VERT: 1"=5'



B WATER PROFILE B

C6.1 SCALE: HORIZ: 1"=20', VERT: 1"=5'

NOTES

1. ELEVATIONS ARE IN MLLW.
2. POT-HOLE AND LOCATE EXISTING WATER PIPING TO BE CONNECTED TO. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.
3. SS LINE MAY EXIST NEAR THIS LOCATION. SIZE AND INVERT UNKNOWN.

1"=4'-0" 4 0 4 8 Vertical Scale Feet

1"=20'-0" 20 0 20 40 Horizontal Scale Feet

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR

PRINTED BY: smillett Jul 20, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
WATER LINE PROFILES - SHEET 3

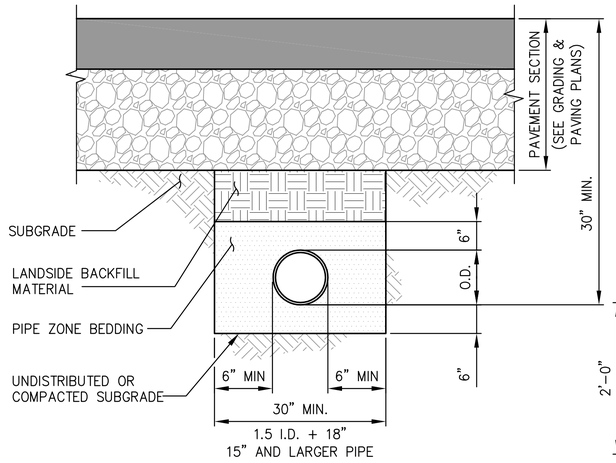
6552
C6.8
SH 95 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.6-C6.7-C6.8 (Water Profiles)

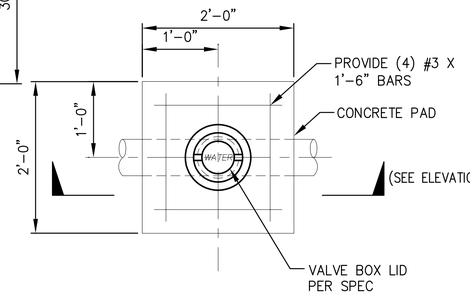


NOTES:

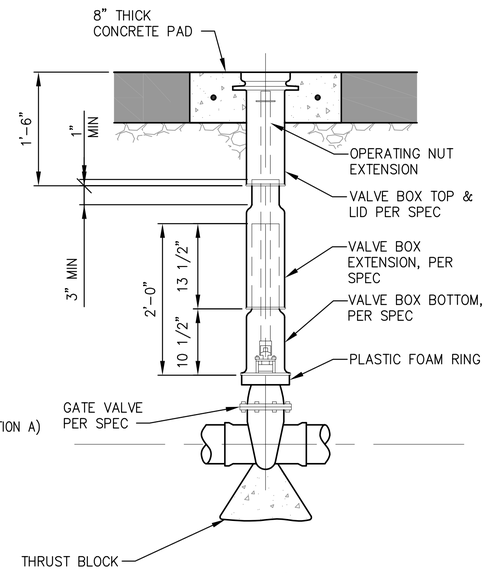
1. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS.

1 WATER PIPE BEDDING

C4.8, C6.1, C6.2, C6.3 NTS



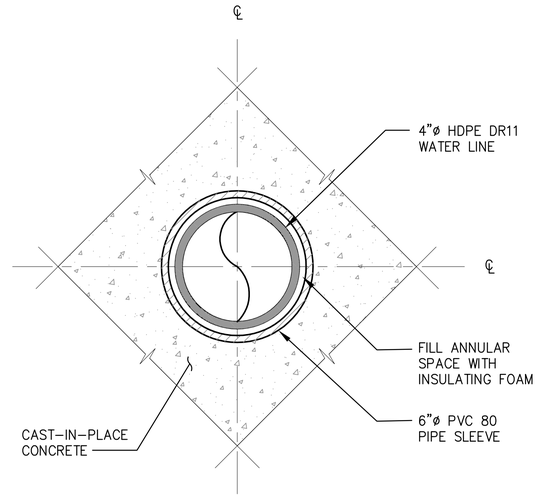
PLAN



ELEVATION A

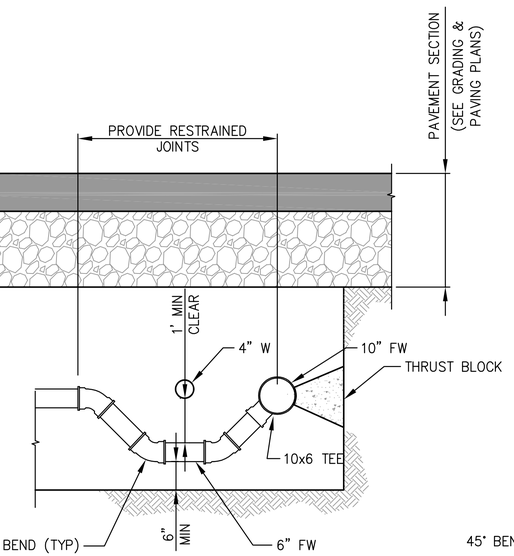
2 GATE VALVE/VALVE BOX

C6.1, C6.2, C6.3, C6.5, C6.10, C6.17 NTS



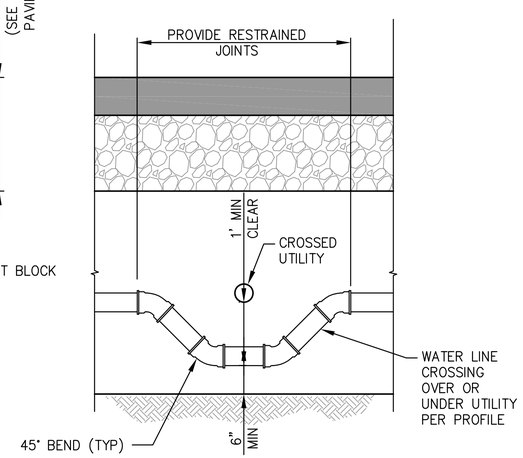
BULKHEAD PENETRATION FOR WATERLINE

A – NTS



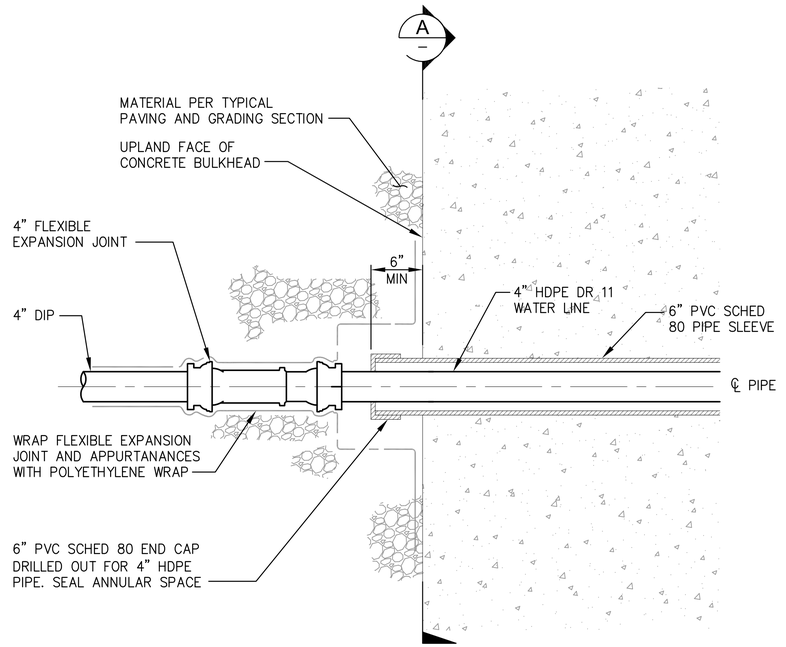
3 WATER CROSSING TO HYDRANT

C6.1, C6.6 NTS



5 UTILITY CROSSING

C6.6 NTS



FLEXIBLE EXPANSION JOINT DETAIL

4 C6.3 C6.12 NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PROJ. ENGR

PRINTED BY: kvang Jul 10, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
UTILITY DETAILS - SHEET 1

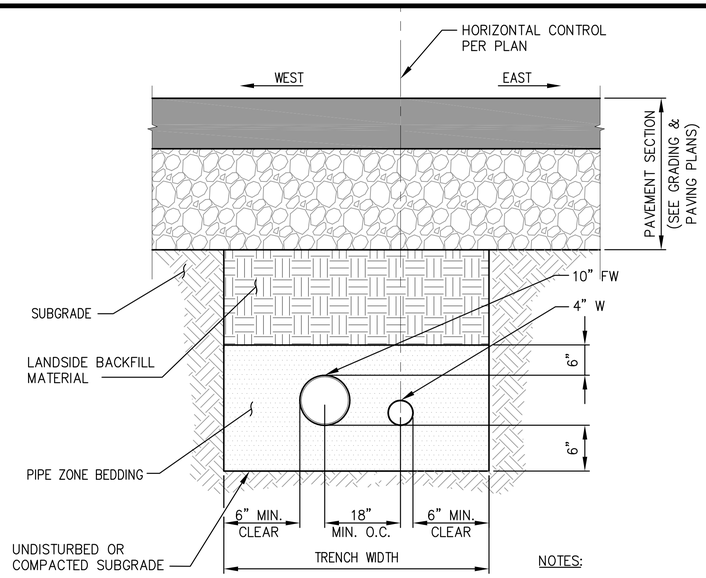
CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	

6552
C6.9
SH 96 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.9-C6.10-C6.11-C 6.12-C6.13-C6.14 (Utility Details).dwg

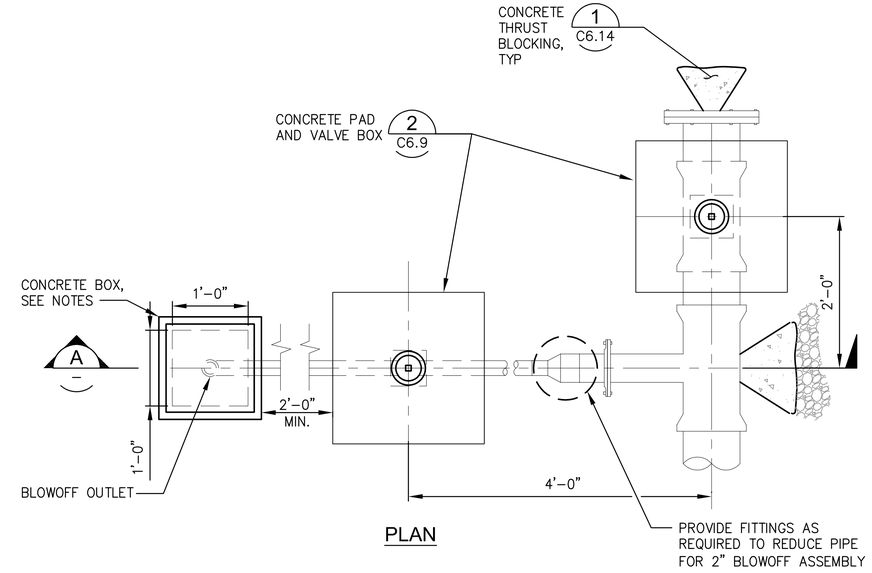


NOTES:

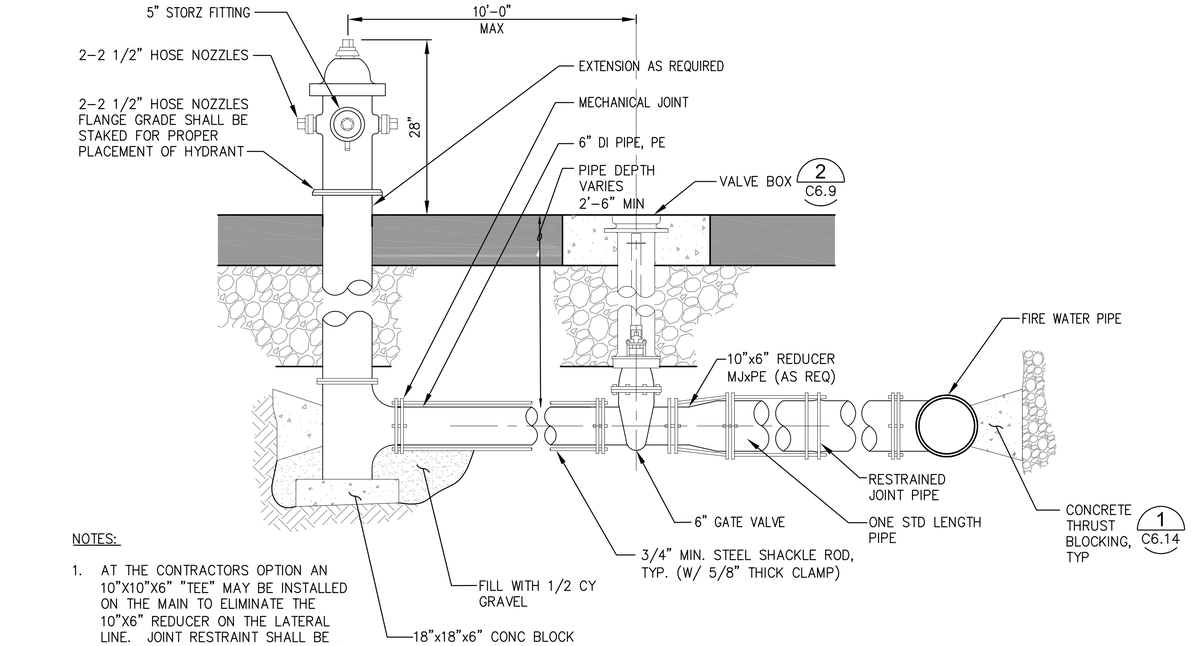
1. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS.

1 DOUBLE WATER PIPE TRENCH

C6.1, C6.2, C6.3, C6.17 NTS



PLAN

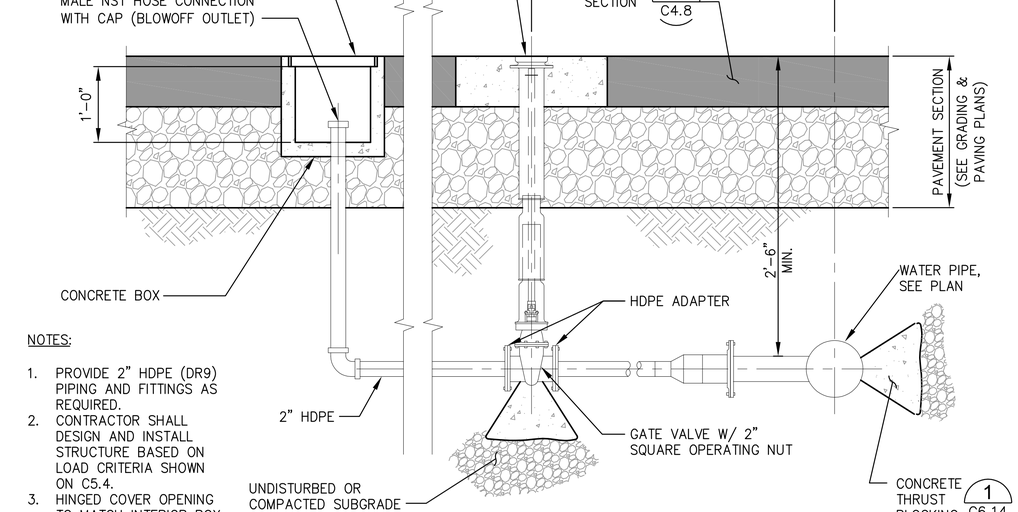


NOTES:

1. AT THE CONTRACTORS OPTION AN 10"X10"X6" "TEE" MAY BE INSTALLED ON THE MAIN TO ELIMINATE THE 10"X6" REDUCER ON THE LATERAL LINE. JOINT RESTRAINT SHALL BE PROVIDED ON THE FULL LENGTH OF THE 6" LINE, INCLUDING END FITTINGS.

2 FIRE HYDRANT ASSEMBLY

C6.1, C6.2, C6.3, C6.5, C6.17, C7.5 NTS



NOTES:

1. PROVIDE 2" HDPE (DR9) PIPING AND FITTINGS AS REQUIRED.
2. CONTRACTOR SHALL DESIGN AND INSTALL STRUCTURE BASED ON LOAD CRITERIA SHOWN ON C5.4.
3. HINGED COVER OPENING TO MATCH INTERIOR BOX DIMENSIONS.

SECTION A

3 BLOWOFF ASSEMBLY

C6.2 NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:
DIRECTOR ENG. DATE
CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
UTILITY DETAILS - SHEET 2

6552
C6.10
SH 97 OF 499

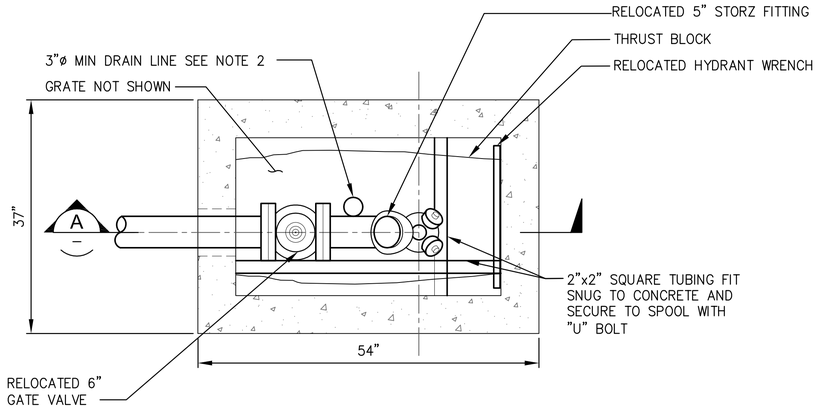
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:
PROJ. ENGR
PRINTED BY: kvang Jul 10, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

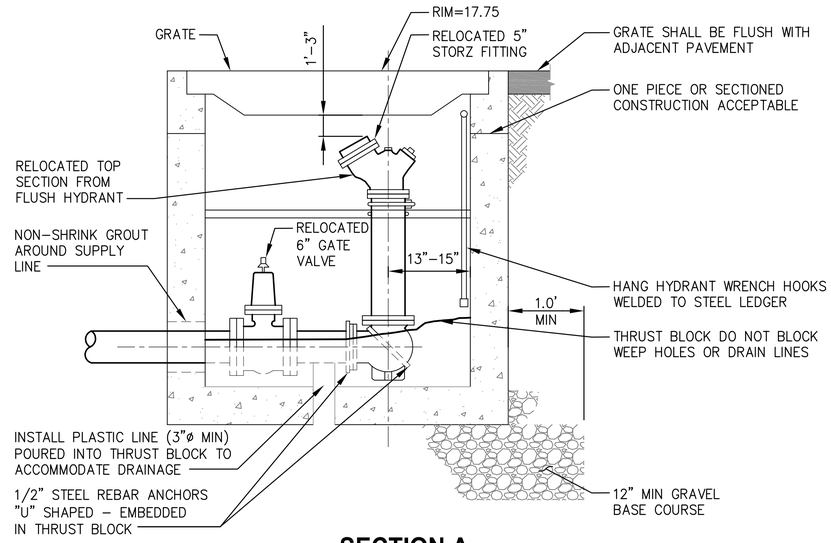
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.9-C6.10-C6.11-C 6.12-C6.13-C6.14 (Utility Details).dwg



PLAN



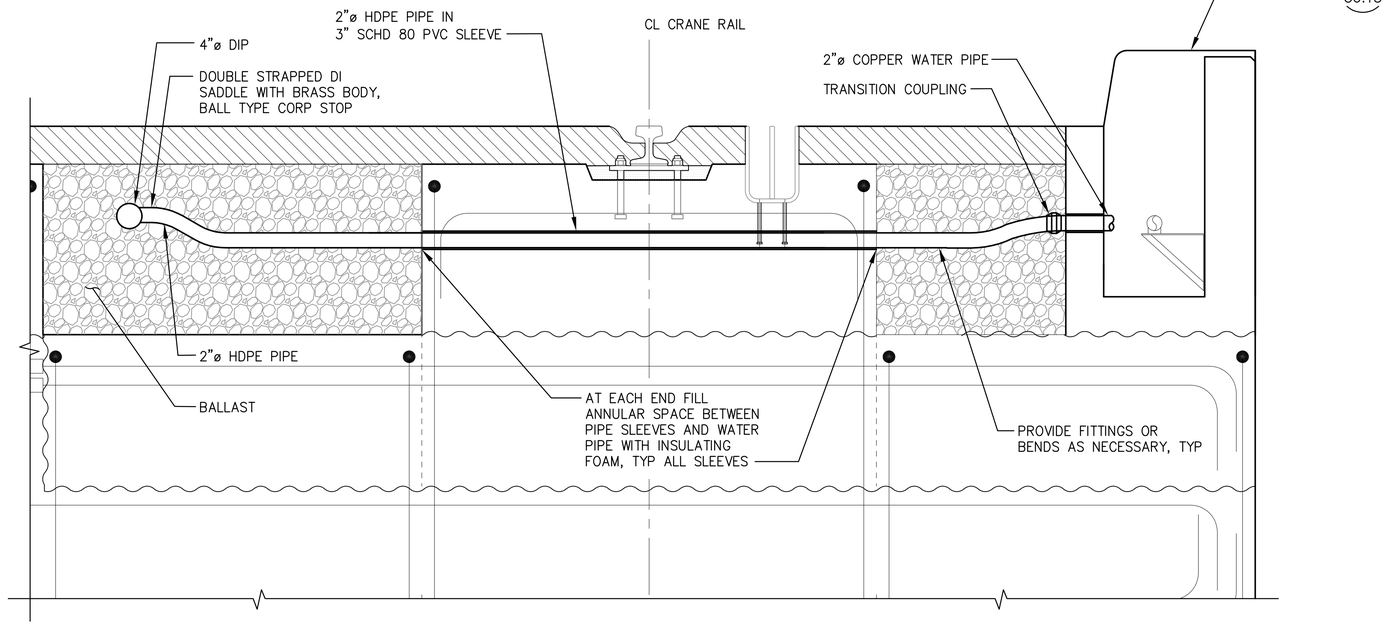
SECTION A

FLUSH FIRE HYDRANT ASSEMBLY

1 / 6.3 — NTS

NOTES:

1. VAULT AND GRATE SHALL BE CONTRACTOR DESIGNED TO THE INSIDE DIMENSIONS SHOWN AND TO WITHSTAND THE LOADING CONDITIONS ON SHEET S1.2.
2. DRAIN LINE SHALL BE CENTERED IN THE HYDRANT VAULT. THRUST BLOCK TOP SURFACE SHALL BE SLOPED TO DRAIN TO THE DRAINLINE.



SHIP SERVICE TO WATER VAULT

2 / C6.1, C6.2, C6.3 — NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535553041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

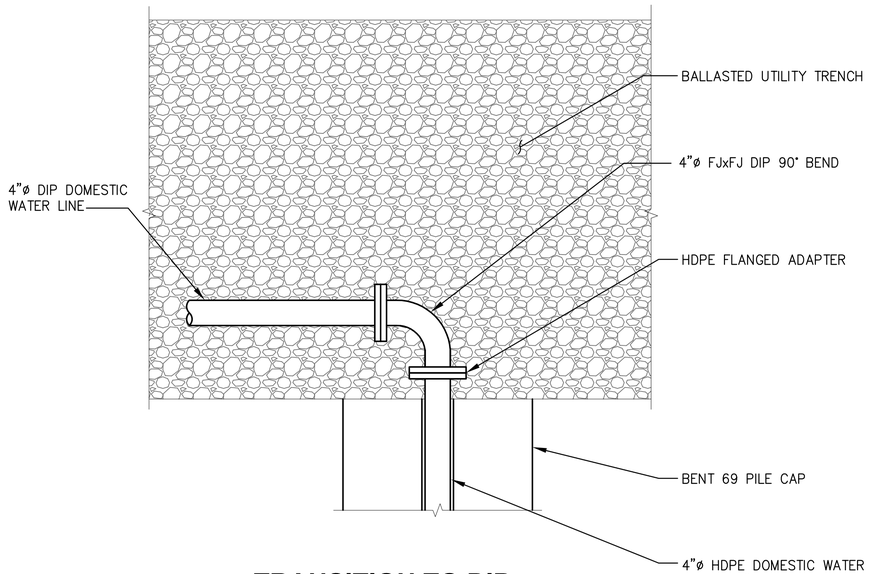
PIER 4 PHASE 2
RECONFIGURATION
UTILITY DETAILS - SHEET 3

6552
C6.11
SH 98 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: kvang Jul 10, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

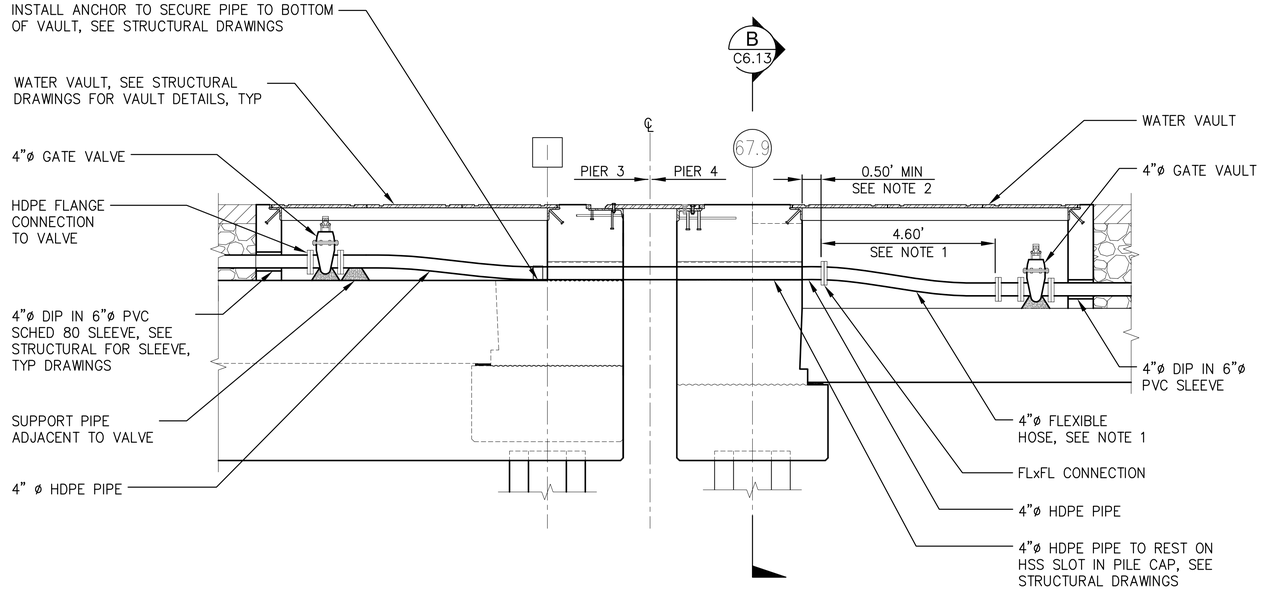
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.9-C6.10-C6.11-C 6.12-C6.13-C6.14 (Utility Details)



TRANSITION TO DIP BENT 69

1 / – NTS

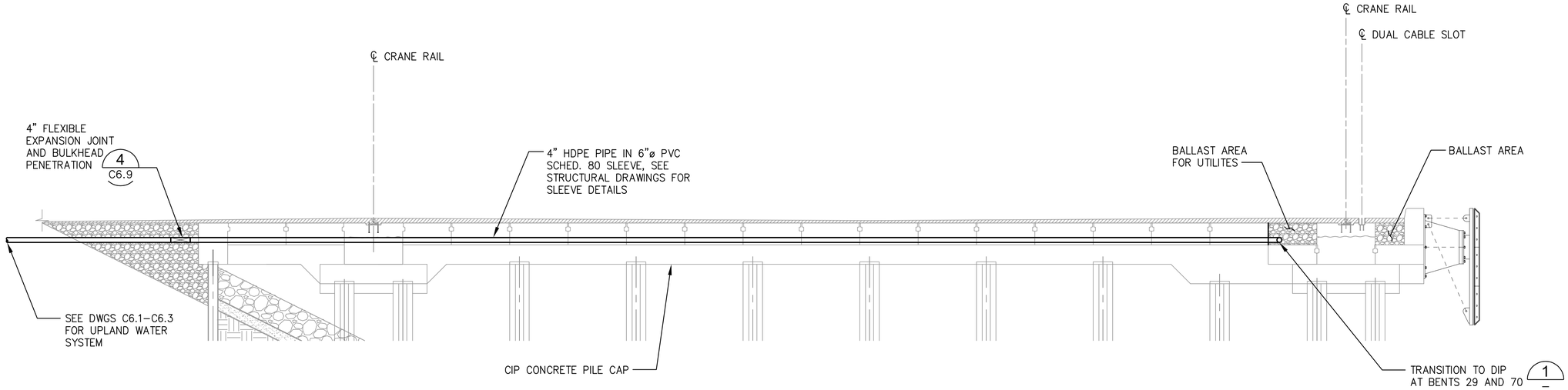


PIER 3 TO PIER 4 TRANSITION

A / C6.1 NTS

NOTES:

1. HOSE LENGTH SHALL BE 5.1 LF BETWEEN COUPLING. HOSE COUPLING SHALL BE 4.6 LF APART.
2. COUPLING AND FLxFL CONNECTION SHALL BE A MINIMUM OF 6" CLEAR OF PILE CAP FACE.



WATER LINE AT BENTS 29 AND 70

3 / C6.3 NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

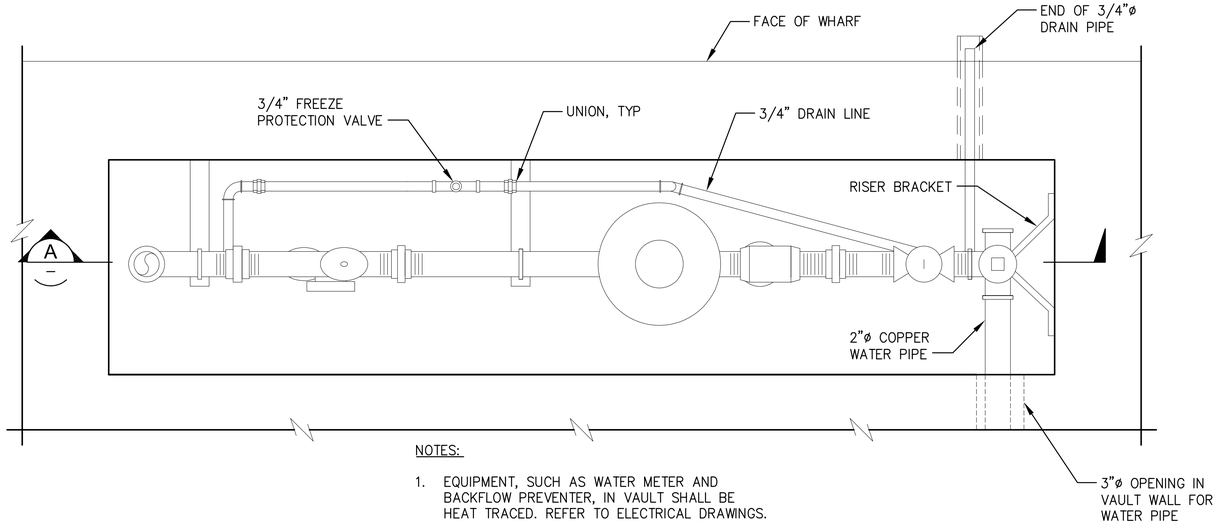
PIER 4 PHASE 2
RECONFIGURATION
UTILITY DETAILS - SHEET 4

6552
C6.12
SH 99 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: kvang Jul 16, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401–1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.9-C6.10-C6.11-C 6.12-C6.13-C6.14 (Utility Details).dgn
BINDING EDGE

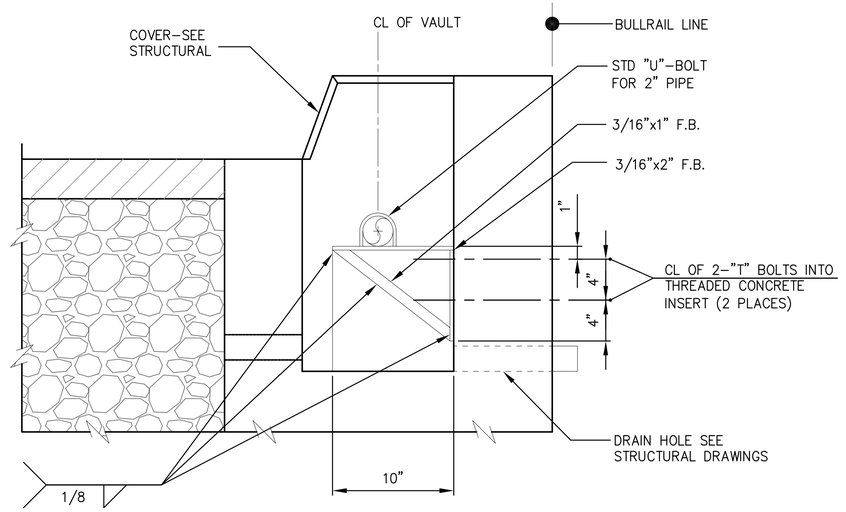


NOTES:

1. EQUIPMENT, SUCH AS WATER METER AND BACKFLOW PREVENTER, IN VAULT SHALL BE HEAT TRACED. REFER TO ELECTRICAL DRAWINGS.

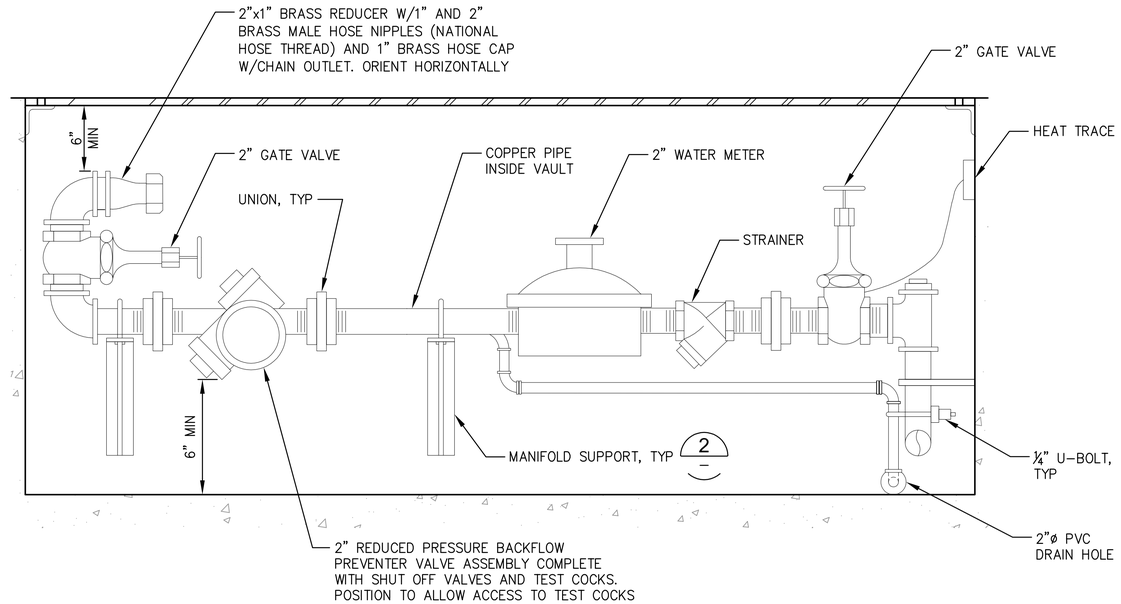
1 BULLRAIL UTILITY VAULT - WATER

C6.1, C6.2, C6.3 NTS



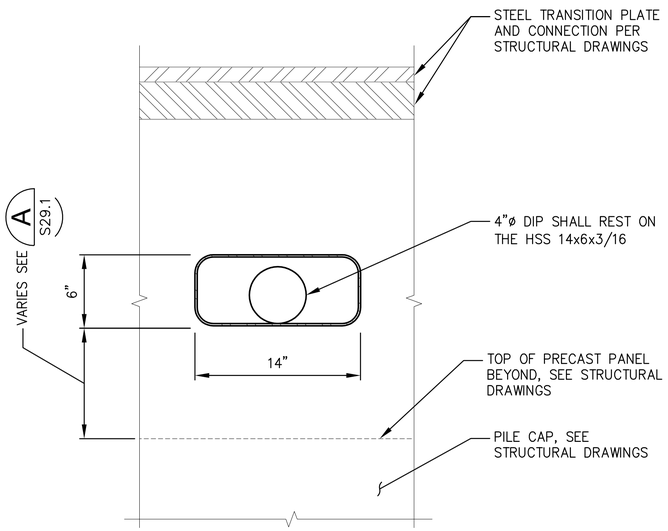
2 MANIFOLD SUPPORT

NTS



A BULLRAIL UTILITY VAULT - WATER

NTS



B PIER 3 TO PIER 4 TRANSITION SECTION

C6.12 NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PIER 4 PHASE 2 RECONFIGURATION
UTILITY DETAILS - SHEET 5

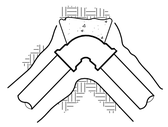
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: kvang Jul 10, 2018 | PROJ. ENGR DATE
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

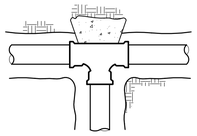
6552
C6.13
SH 100 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

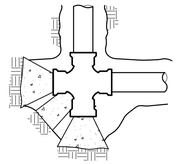
BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251–C6.9–C6.10–C6.11–C 6.12–C6.13–C6.14 (Utility Details).dgn



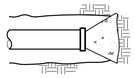
HORIZONTAL BEND



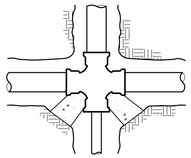
TEE



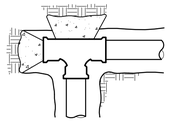
PLUGGED CROSS



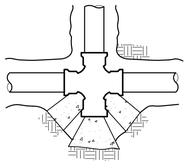
PIPE & CAP



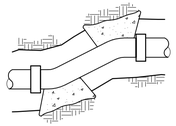
UNBALANCED CROSS



PLUGGED TEE



PLUGGED CROSS



OFFSET

NOTES:

1. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
2. CAST-IN-PLACE THRUST BLOCKING SHALL BE CURED FOR A MINIMUM OF 1 DAY PRIOR TO BACKFILLING. PIPE PRESSURE TESTING SHALL NOT BE CONDUCTED UNTIL BLOCKING HAS REACHED DESIGN COMPRESSION STRENGTH.
3. BLOCKING FOR HORIZONTAL FITTINGS SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND OR STRUCTURAL FILL COMPACTED TO 95% OF MODIFIED PROCTOR. SEE TABLES FOR REQUIRED BEARING AREAS.
4. HORIZONTAL BLOCKING THRUST AREAS SHALL BE CENTERED ON PIPE.
5. MINIMUM AREA IS COMPUTED BY DIVIDING THRUST BY SAFE BEARING LOAD.
6. THRUST BLOCK AREA MUST BE ADJUSTED FOR PRESSURE CONDITIONS NOT SHOWN IN TABLE.
7. PROVIDE 20 LB TAR PAPER OR 10 MIL PLASTIC BETWEEN CONCRETE THRUST BLOCK AND PIPE.

TYPICAL CONCRETE HORIZONTAL THRUST BLOCK

1 — C6.1, C6.2, C6.3 — NTS

THRUST BLOCK AREA IN SQUARE FEET

SOIL	FIRM SILT OR FIRM SILTY SAND				COMPACT SAND				COMPACT SAND & GRAVEL			
PIPE FITTING SIZE	90° BEND	TEE	45° BEND CAP OR PLUG	11 1/4" & 22 1/2" BEND	90° BEND	TEE	45° BEND CAP OR PLUG	11 1/4" & 22 1/2" BEND	90° BEND	TEE	45° BEND CAP OR PLUG	11 1/4" & 22 1/2" BEND
4"	7.0	4.2	4.2	1.7	2.9	2.1	2.1	1.0	2.2	1.6	1.6	1.0
6"	13.3	9.4	9.4	3.8	6.7	4.7	4.7	1.9	5.0	3.5	3.5	1.4
8"	23.3	16.7	16.7	6.7	11.7	8.40	8.4	3.4	8.8	6.3	6.3	2.5
12"	53.0	37.5	37.5	15.0	26.5	18.8	18.8	7.5	20.0	14.0	14.0	5.6
AREAS CALCULATED ON 300 PSI TEST PRESSURE AND 3'-0" MIN. COVER OVER WATERMAIN												

TYPE 1 BLOCKING FOR THRUST BLOCK AREA IN SQUARE FEET

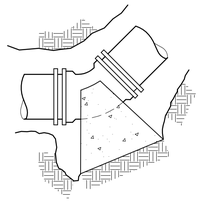
SOIL	FIRM SILT OR FIRM SILTY SAND			COMPACT SAND			COMPACT SAND & GRAVEL		
PIPE FITTING SIZE	90° BEND	TEE, 45° BEND & DEAD END	11 1/4" & 22 1/2" BEND	90° BEND	TEE, 45° BEND & DEAD END	11 1/4" & 22 1/2" BEND	90° BEND	TEE, 45° BEND & DEAD END	11 1/4" & 22 1/2" BEND
4"	5.8	4.2	1.7	2.9	2.1	1.0	2.2	1.6	1.0
6"	13.3	9.4	3.8	6.7	4.7	1.9	5.0	3.5	1.4
8"	23.3	16.7	6.7	11.7	8.4	3.4	8.8	6.3	2.5
12"	53.0	37.5	15.0	26.5	18.8	7.5	20.0	14.0	5.6
AREAS CALCULATED ON 300 PSI TEST PRESSURE AND 3'-0" MIN. COVER OVER WATERMAIN									

TYPE 2 BLOCKING

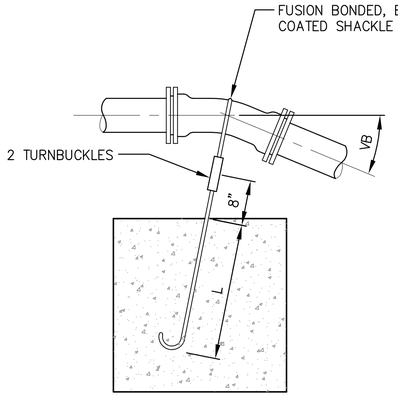
	VB		S	d	L
PIPE SIZE (IN)	VERTICAL BEND (DEG)	VOLUME OF BLOCK (CF)	SIDE OF CUBE (FT)	DIA OF SHACKLE RODS (IN)	DEPTH OF RODS IN CONCRETE (IN)
4"	11 1/4	8	2	3/4	18
	22 1/2	12	2 1/4		24
6"	11 1/4	12	2 1/4	3/4	24
	22 1/2	27	3		
8"	11 1/4	16	2 1/2	3/4	24
	22 1/2	43	3 1/2		
12"	11 1/4	64	4	1	24
	22 1/2	125	5	1	36

TYPE 3 BLOCKING FOR 45° VERTICAL BENDS

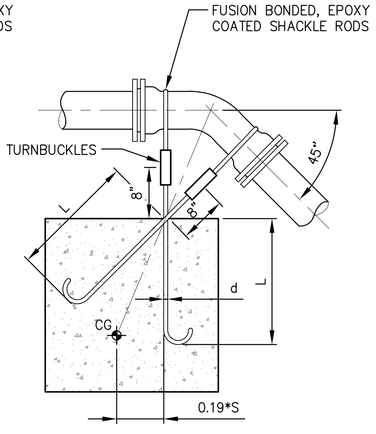
		S	d	L
PIPE SIZE (IN)	VOLUME OF BLOCK (CF)	SIDE OF CUBE (FT)	DIA OF SHACKLE RODS (IN)	DEPTH OF RODS IN CONCRETE (IN)
4"	27	3	3/4	20
6"	64	4		
8"	125	5		
12"	216	6	1	30



TYPE 1 BLOCKING



TYPE 2 BLOCKING



TYPE 3 BLOCKING

TYPICAL CONCRETE VERTICAL THRUST BLOCK

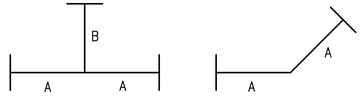
2 — C6.1, C6.2, C6.3, C6.17 — NTS

NOTES:

1. BLOCKING FOR VERTICAL FITTINGS SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND OR COMPACTED STRUCTURAL FILL
2. PROVIDE 20 LB TAR PAPER OR 10 MIL PLASTIC BETWEEN CONCRETE THRUST BLOCK AND PIPE.

NOTE:

1. JOINT RESTRAINT SYSTEM SHALL HAVE A MINIMUM OF TWO JOINT FITTINGS BUT NOT BE LESS THAN MINIMUM LENGTH SHOWN.



RESTRAINED JOINT LENGTH DIAGRAM

3 — – — NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		

DIRECTOR ENG. DATE	
PRINTED BY: kvang Jul 10, 2018	
PORT ADDRESS:ONE SITCUM PLAZA	
TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
UTILITY DETAILS - SHEET 6

TOWNSHIP:	RANGE:
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
C6.14
SH 101 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

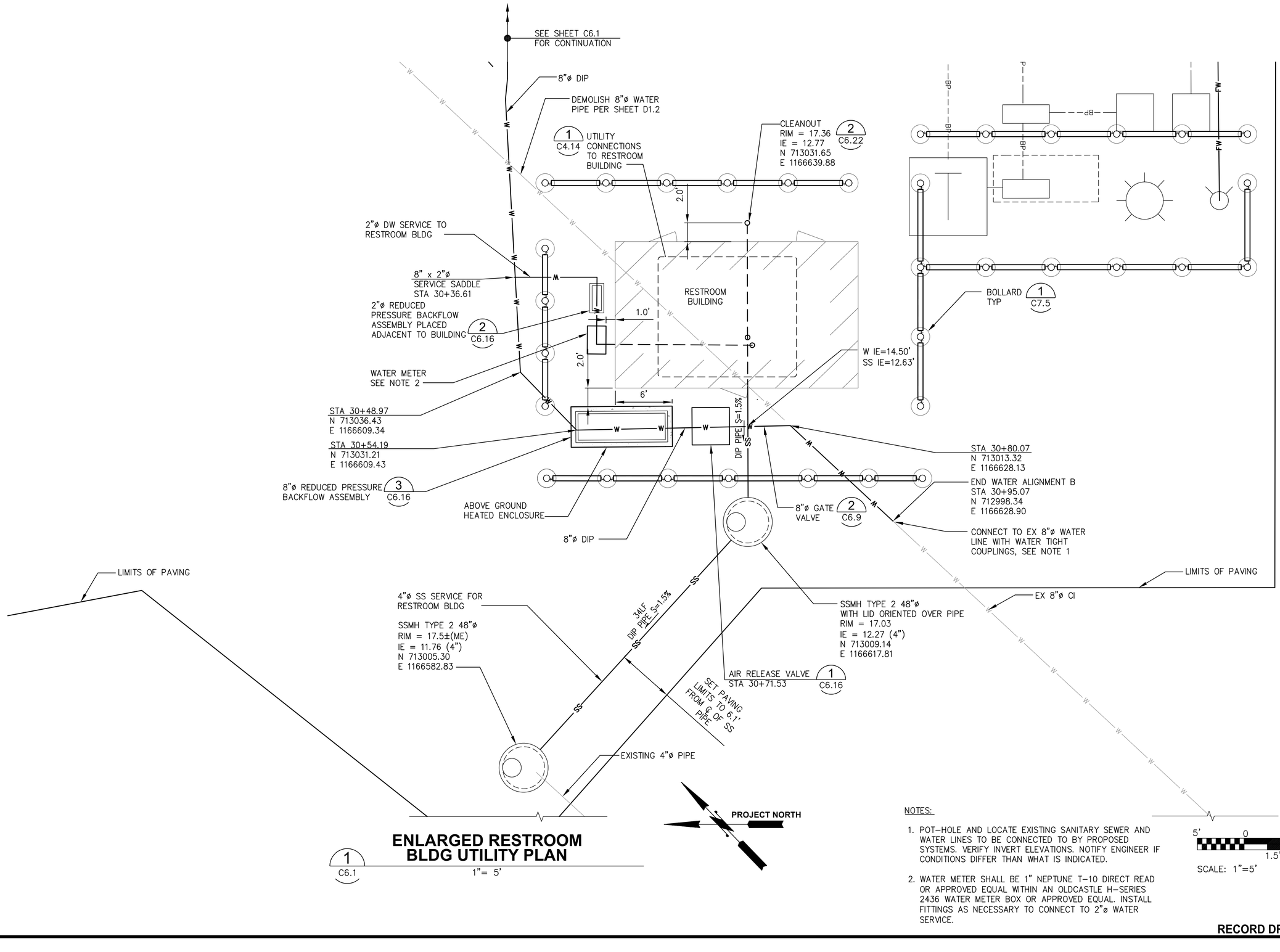
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.9-C6.10-C6.11-C 6.12-C6.13-C6.14 (Utility Details)

BINDING EDGE



ENLARGED RESTROOM BLDG UTILITY PLAN

1 C6.1 — 1"= 5'

NOTES:

1. POT–HOLE AND LOCATE EXISTING SANITARY SEWER AND WATER LINES TO BE CONNECTED TO BY PROPOSED SYSTEMS. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.
2. WATER METER SHALL BE 1" NEPTUNE T–10 DIRECT READ OR APPROVED EQUAL WITHIN AN OLDCASTLE H–SERIES 2436 WATER METER BOX OR APPROVED EQUAL. INSTALL FITTINGS AS NECESSARY TO CONNECT TO 2"ø WATER SERVICE.

5' 0 5' 10' (1.5' 7.5')

SCALE: 1"=5'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353641
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE | PROJ. ENGR

PRINTED BY: rbaganz Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401–1837

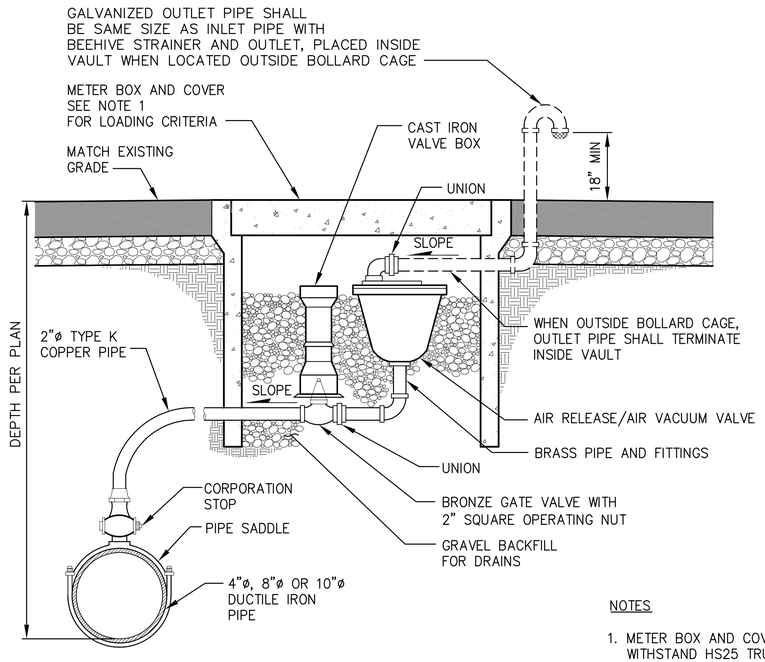
PIER 4 PHASE 2
RECONFIGURATION
RESTROOM BUILDING ENLARGED UTILITY PLAN

CONT/CONS: 0701136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C6.15
SH 102 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.15-(Reconfiguration - Enlarged RR Bldg Utility Plan

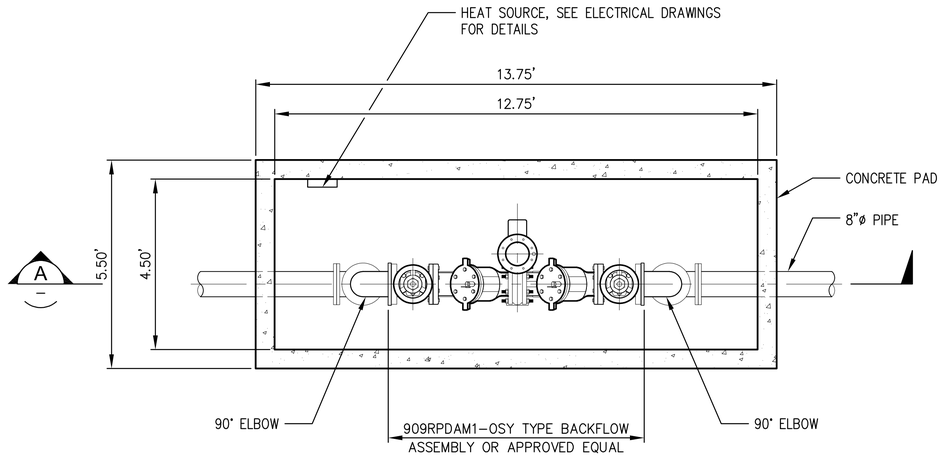


NOTES

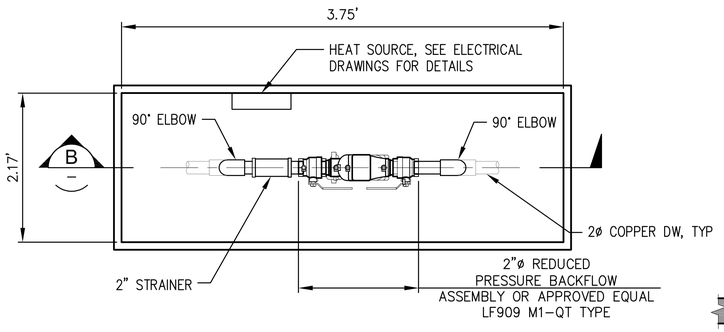
1. METER BOX AND COVER SHALL BE DESIGNED TO WITHSTAND HS25 TRUCK, KALAMAR AND NOELL STRADDLE CARRIERS AND TAYLOR CONTAINER HANDLER, SEE SHEET S1.2 FOR LOADING DEFINITIONS.

1 AIR RELIEF VALVE

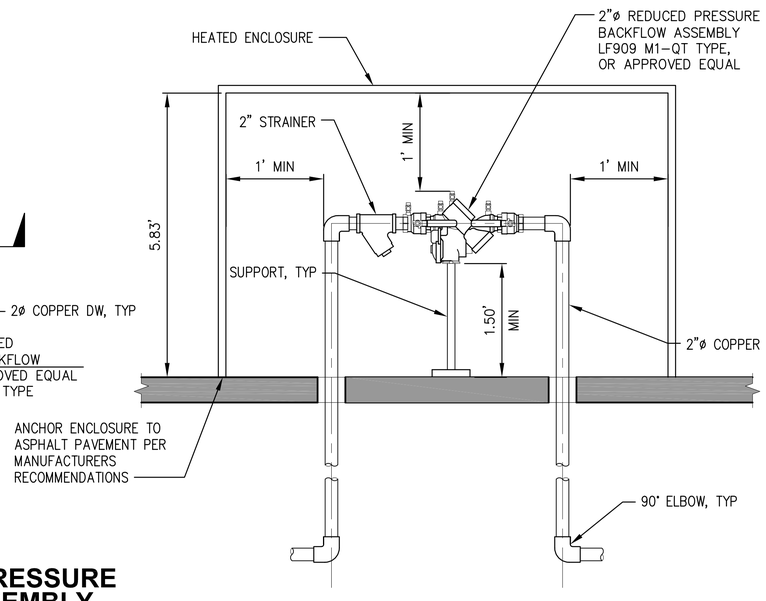
C6.1, C6.2, C6.6, C6.7, C6.8, C6.15 SCALE: NTS



PLAN



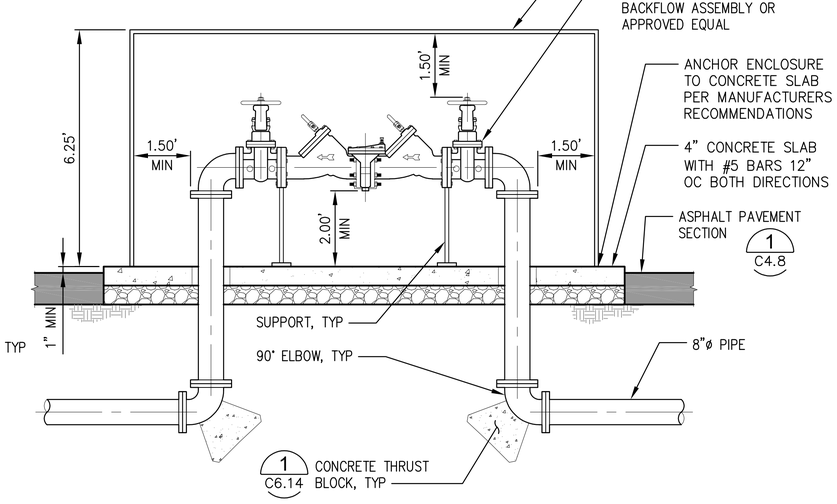
PLAN



SECTION B

2 2" Ø REDUCED PRESSURE BACKFLOW ASSEMBLY

C6.15 NTS



SECTION A

3 8" Ø REDUCED PRESSURE BACKFLOW ASSEMBLY

C6.8, C6.15 NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE
PROJ. ENGR	DATE

PRINTED BY: smillett Jul 16, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
UTILITY DETAILS - SHEET 7

TOWNSHIP:	RANGE:
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PARCEL: CONFORMED	DRAWING SCALE: AS NOTED

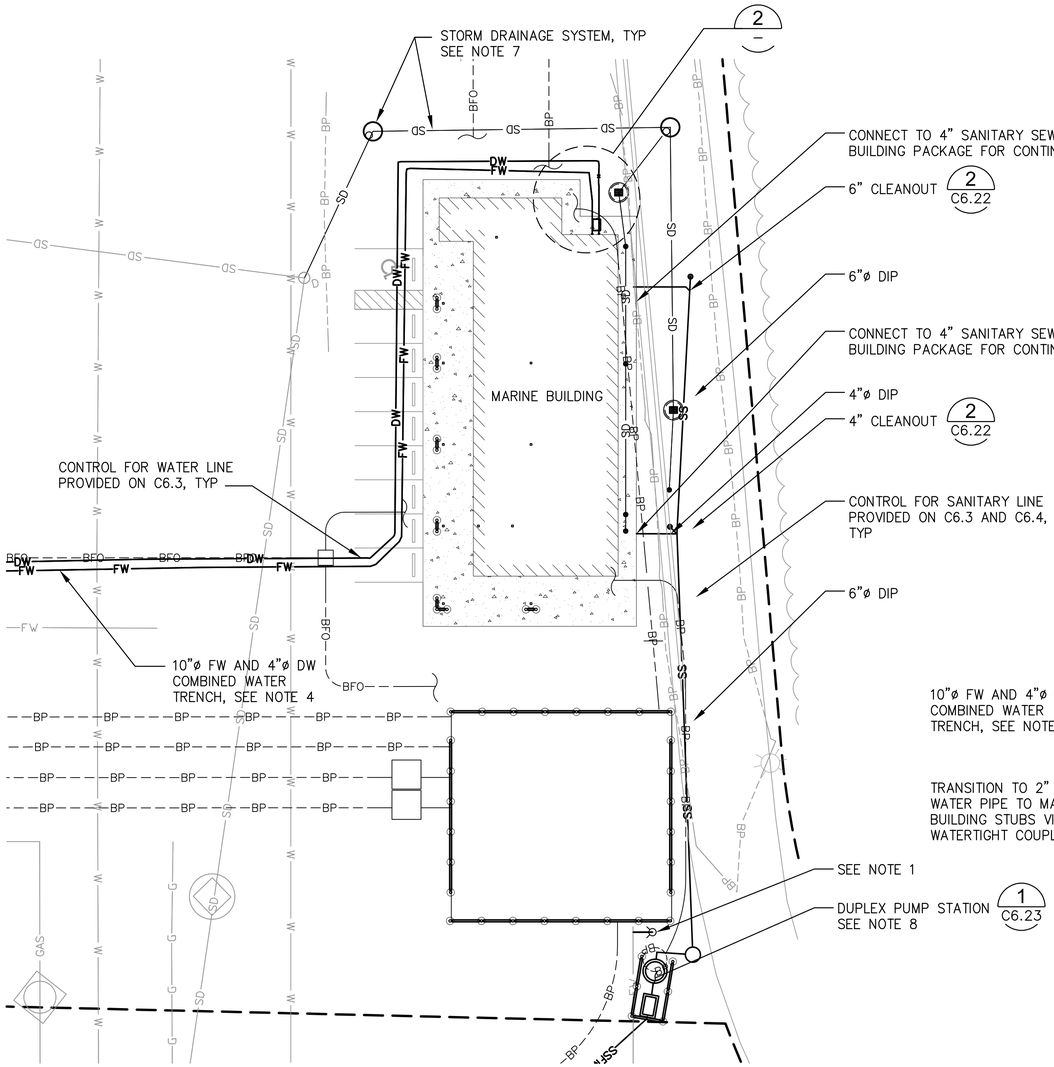
SECTION:

6552
C6.16
SH 103 OF 499

CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

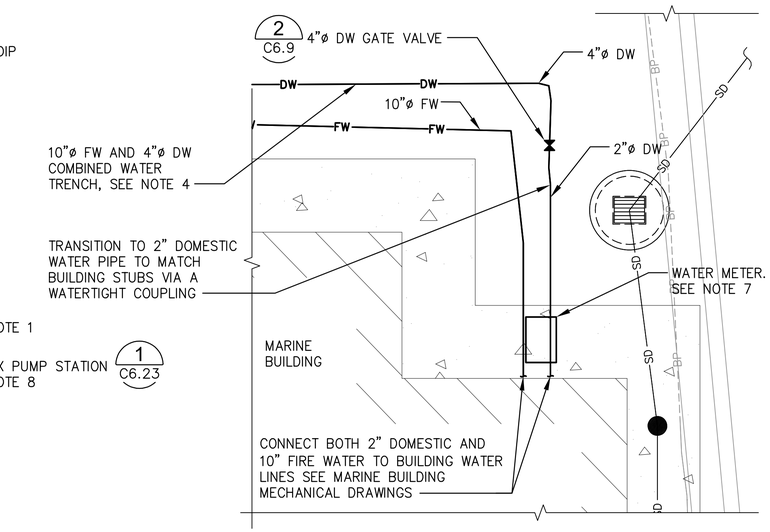
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.16(Utility Details)



1 C6.3 UTILITY PLAN

SCALE: 1"=20'



2 – WATER SERVICE TO MARINE BUILDING

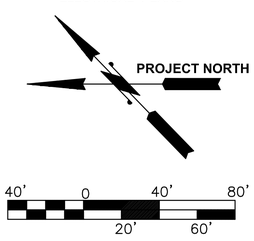
SCALE: NTS

NOTES

1. SEE SHEET C6.5 FOR SCHEDULE OF HYDRANTS.
2. FIRE HYDRANT GATE VALVES ARE NOT SHOWN FOR CLARITY. SEE 2 C6.10 FOR VALVE LOCATION.
3. CONCRETE THRUST BLOCKS ARE NOT SHOWN FOR CLARITY. THRUST BLOCKS TO BE CONSTRUCTED PER 1 C6.14 AND 2 C6.14
4. LANDSIDE OF THE BULKHEAD WHERE THE DOMESTIC WATER LINE CLOSELY PARALLELS THE FIRE LINE, THE PIPE SHALL BE CONSTRUCTED IN A COMBINED WATER PIPE TRENCH PER 1 C6.10
5. SEE SHEETS C6.6 – C6.7 FOR WATER LINE PROFILES.
6. STORM DRAINAGE SYSTEM SHOWN FOR REFERENCE. SEE DRAINAGE PLANS FOR COMPLETE INFORMATION.
7. WATER METER SHALL BE 1–1/2" NEPTUNE T–10 DIRECT READ OR APPROVED EQUAL WITHIN AN OLDCASTLE H–SERIES 2436 WATER METER BOX OR APPROVED EQUAL.
8. DUPLEX PUMP STATION SHALL BE CONTRACTOR DESIGNED AND APPROVED BY THE ENGINEER. NOTES AND RIM AND INVERT ELEVATIONS PROVIDED ON DETAIL 1 ON SHEET C6.23 SHALL BE ADHERED TO.

LEGEND

- PROJECT WORK AREA LIMITS
- FW — FIRE WATER LINE, SIZE PER PLAN
- DW — DOMESTIC WATER LINE, SIZE PER PLAN
- W — DOMESTIC AND FIRE COMBINED WATER TRENCH 1 C6.10
- SS — SANITARY SEWER GRAVITY LINE, SIZE PER PLAN
- SSFM — SANITARY SEWER FORCE MAIN, SIZE PER PLAN
- 6" FIRE HYDRANT ASSEMBLY 2 C6.10
- GATE VALVE 2 C6.9
- SD — STORM DRAINAGE STRUCTURES AND PIPING, SEE DRAINAGE PLANS
- BOLLARD CAGE
- LIGHT POLE
- BFO / BP — ELECTRICAL AND COMMUNICATION VAULTS AND DUCTBANKS, SEE ELECTRICAL PLANS



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

DIRECTOR ENG.	DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
MARINE BUILDING ENLARGED UTILITY PLAN

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

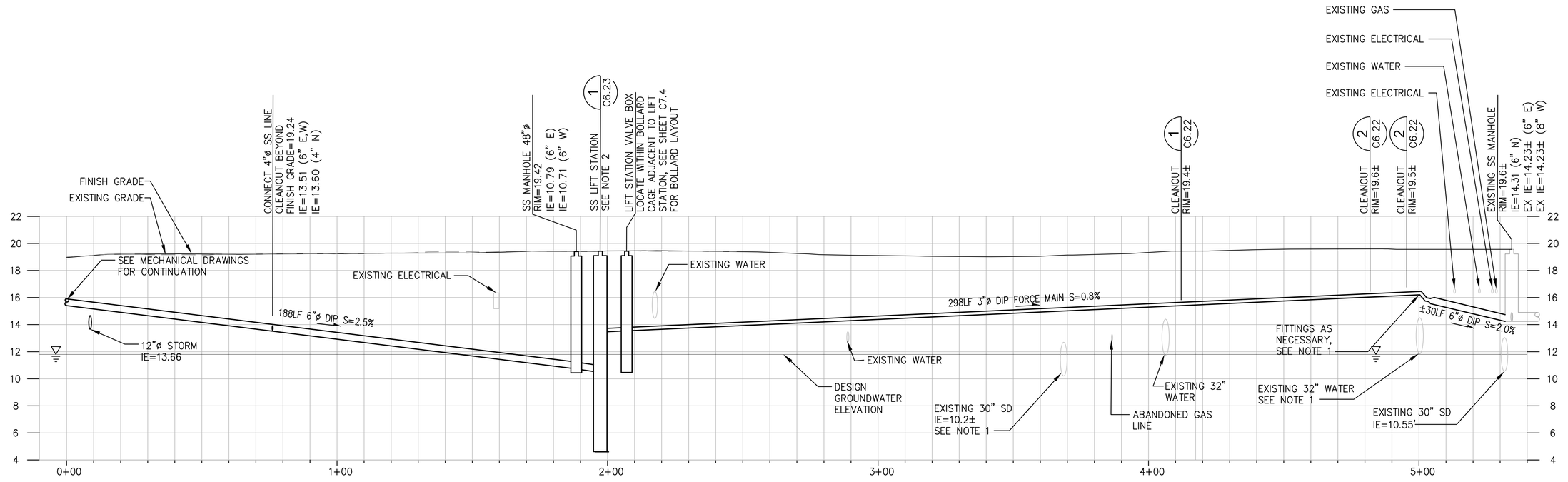
PROJ. ENGR	DATE
smillett	Jul 19, 2018

SECTION:
PRINTED BY: smillett
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

6552
C6.17
SH 104 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.17 (MARINE BLDG UTILITY PLAN)
BINDING EDGE



MARINE BLDG SEWER PROFILE

A

C6.3, C6.17 SCALE: HORIZ: 1"=20', VERT: 1"=4'

NOTES

1. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO STARTING EXCAVATION FOR ANY PORTION OF THE SANITARY SEWER FORCE MAIN. IF EXISTING UTILITIES ARE IN CONFLICT ENGINEER SHALL BE NOTIFIED IMMEDIATELY. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS ON THIS AREA.
2. DUPLEX PUMP STATION SHALL BE CONTRACTOR DESIGNED AND APPROVED BY THE ENGINEER. NOTES AND RIM AND INVERT ELEVATIONS PROVIDED ON DETAIL 1 ON SHEET C6.23 SHALL BE ADHERED TO.

1"=5'-0" 5 0 5 10 Vertical Scale Feet

1"=20'-0" 20 0 20 40 Horizontal Scale Feet

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353641

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 350-0150 FAX (253) 350-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
MARINE BUILDING SEWER PROFILE

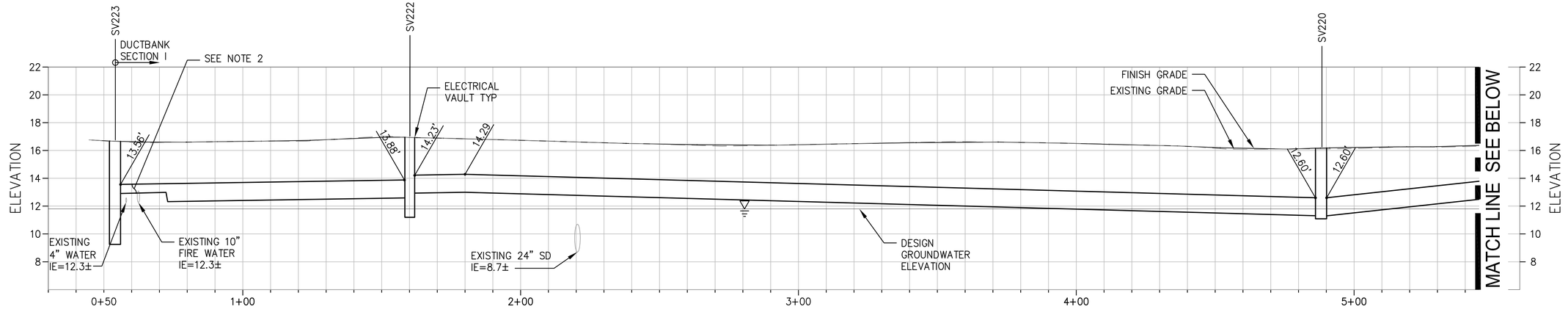
TOWNSHIP:	RANGE:	SECTION:	PRINTED BY: smillett Jul 16, 2018
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA	
PARCEL: CONFORMED	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	

6552
C6.18
SH 105 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

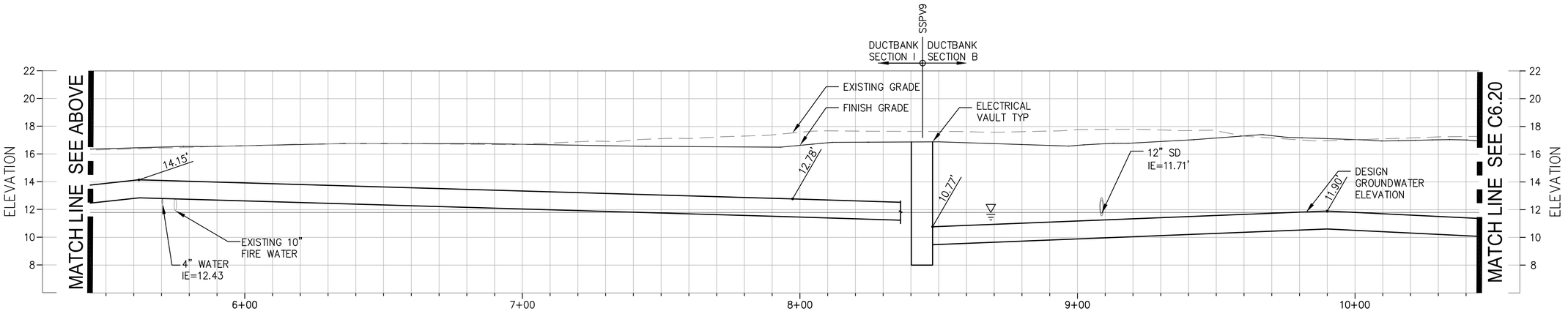
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.18 (Marine Bldg Sewer Profile)
BINDING EDGE



ELECTRICAL ALIGNMENT A
TYPICAL DUCTBANK PROFILE

C6.1, C6.2, C6.3, C6.17 SCALE: HORIZ: 1"=20', VERT: 1"=4'



ELECTRICAL ALIGNMENT A
TYPICAL DUCTBANK PROFILE (CONTINUED)

C6.1, C6.2, C6.3, C6.17 SCALE: HORIZ: 1"=20', VERT: 1"=4'

NOTES:
1. DUCTBANK PROFILES SHOWN DEPICT THE BOTTOM OF CONCRETE TO THE UPPER LIMIT OF THE CONDUIT FOR THE TALLEST RACEWAY WITHIN THE OVERALL SECTION.
2. CONDUIT CROSS SECTION IN THIS AREA IS A SINGLE CONDUIT TALL IN ORDER TO PASS OVER THE WATER LINES. CONTRACTOR TO VERIFY ELEVATIONS IN THIS LOCATION AND NOTIFY ENGINEER IF CONDITIONS VARY.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE
CHECKED BY DATE

PIER 4 PHASE 2
RECONFIGURATION
TYPICAL ELECTRICAL DUCTBANK PROFILE - SHEET 1

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

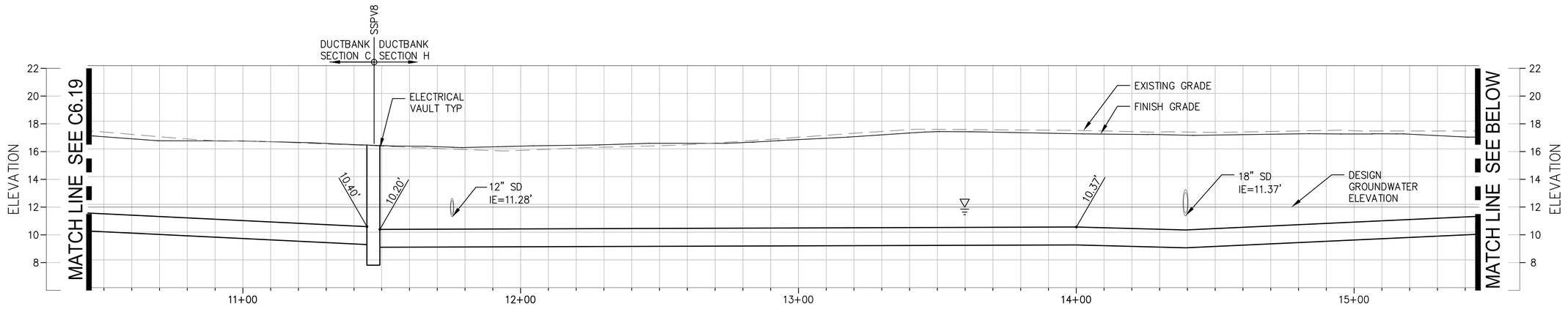
PRINTED BY: kvang Jul 19, 2018 PROJ. ENGR
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
C6.19
SH 106 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

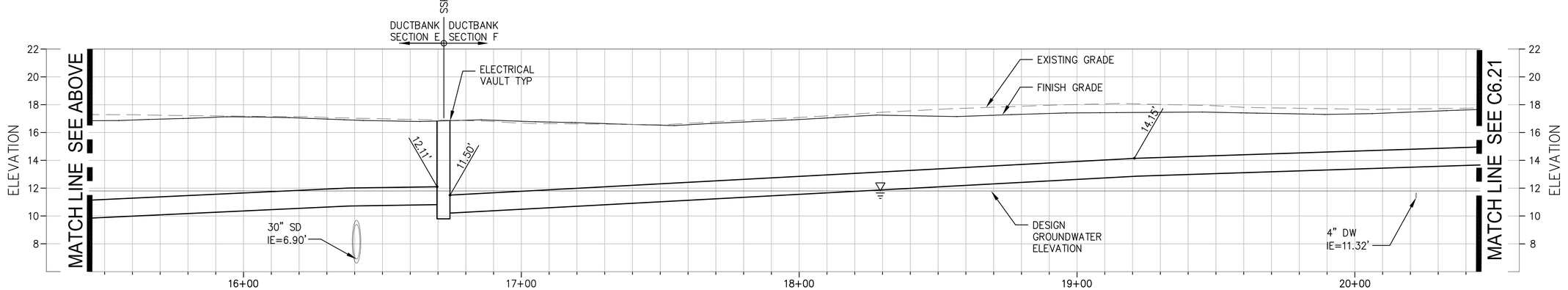
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.19-C6.21(Electrical Ductbank Profiles)

BINDING EDGE



ELECTRICAL ALIGNMENT A
A TYPICAL DUCTBANK PROFILE (CONTINUED)

C6.1, C6.2, C6.3, C6.17 SCALE: HORIZ:1"=20', VERT:1"=4'



ELECTRICAL ALIGNENT A
A TYPICAL DUCTBANK PROFILE (CONTINUED)

C6.1, C6.2, C6.3, C6.17 SCALE: HORIZ:1"=20', VERT:1"=4'

NOTES:
1. DUCTBANK PROFILES SHOWN DEPICT THE BOTTOM OF CONCRETE TO THE UPPER LIMIT OF THE CONDUIT FOR THE TALLEST RACEWAY WITHIN THE OVERALL SECTION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		

PRINTED BY: smillett Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
TYPICAL ELECTRICAL DUCTBANK PROFILE - SHEET 2

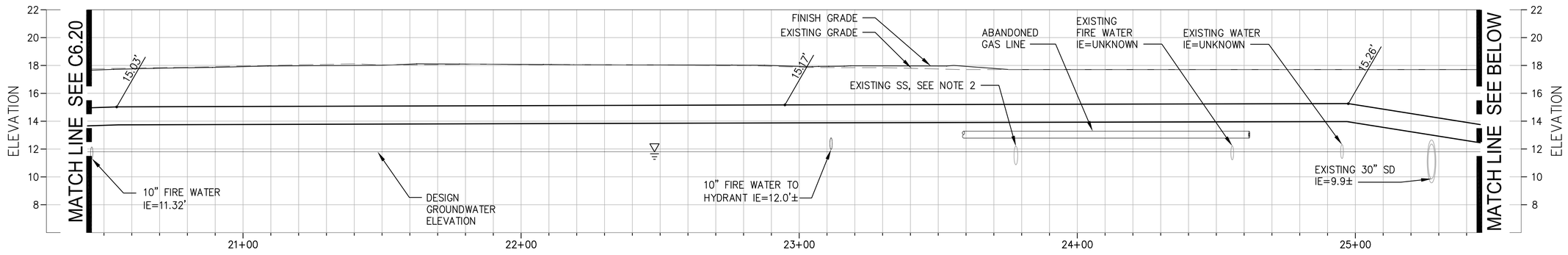
TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
C6.20
SH 107 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

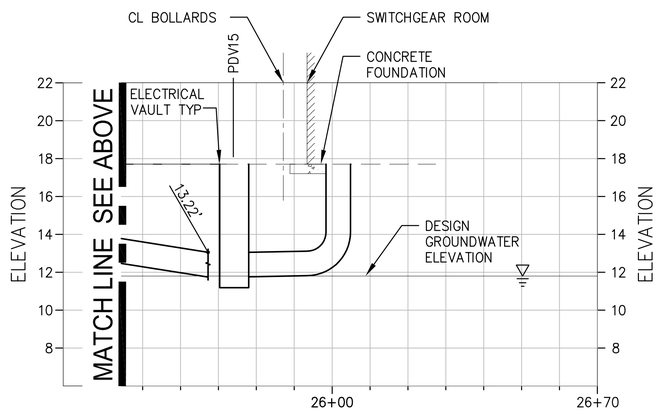
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.19-C6.21[Electrical Ductbank Profiles)
BINDING EDGE



ELECTRICAL ALIGNMENT A
A TYPICAL DUCTBANK PROFILE (CONTINUED)

C6.1, C6.2, C6.3, C6.17 SCALE: HORIZ:1"=20', VERT:1"=4'

NOTES:
1. DUCTBANK PROFILES SHOWN DEPICT THE BOTTOM OF CONCRETE TO THE UPPER LIMIT OF THE CONDUIT FOR THE TALLEST RACEWAY WITHIN THE OVERALL SECTION.
2. SS LINE MAY EXIST NEAR THIS LOCATION. SIZE AND INVERT UNKNOWN.



ELECTRICAL ALIGNMENT A
A TYPICAL DUCTBANK PROFILE (CONTINUED)

C6.1, C6.2, C6.3, C6.17 SCALE: HORIZ:1"=20', VERT:1"=4'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2503/253/383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE
PRINTED BY: kvang Jul 19, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:

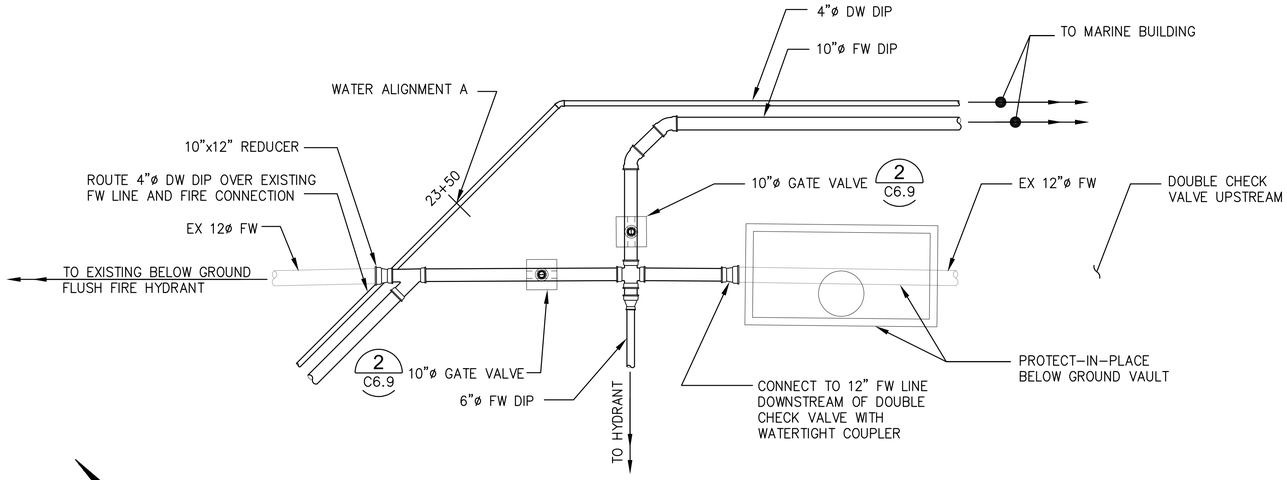
PIER 4 PHASE 2
RECONFIGURATION
TYPICAL ELECTRICAL DUCTBANK PROFILE - SHEET 3

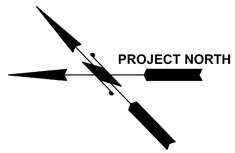
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
C6.21
SH 108 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.19-C6.21(Electrical Ductbank Profiles)





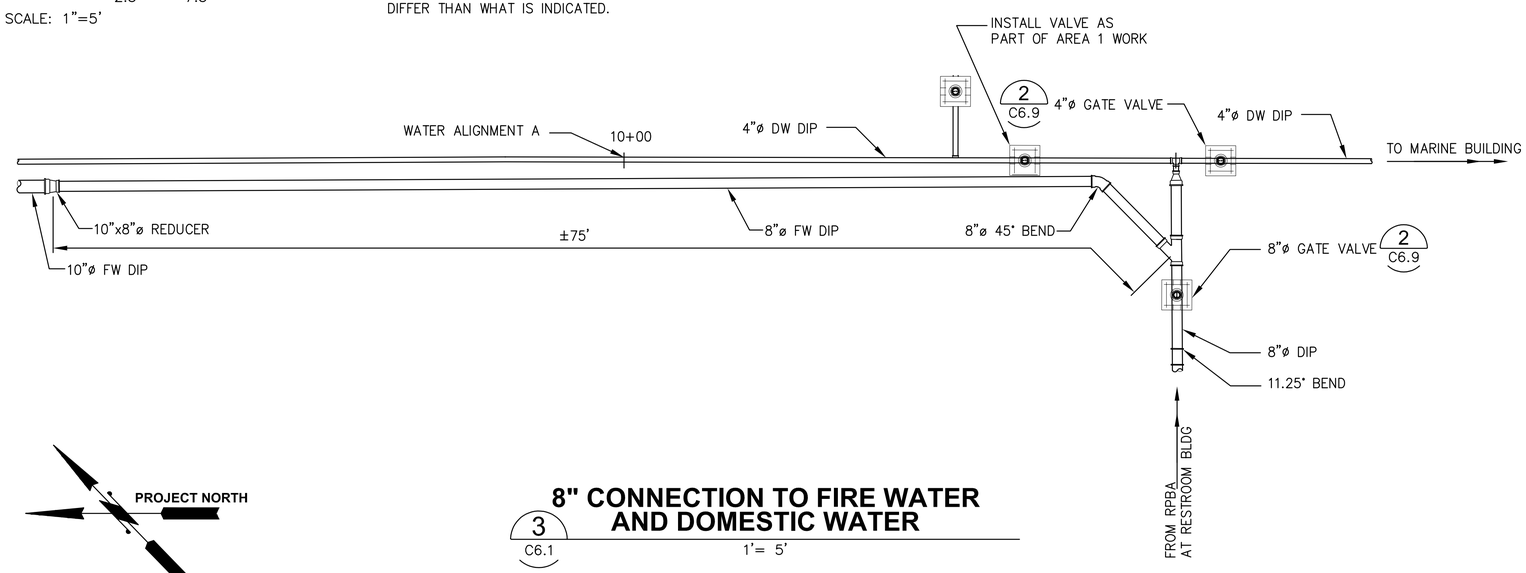
SCALE: 1"=5'

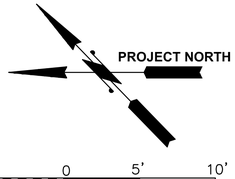
FIRE WATER CONNECTION BLDG UTILITY PLAN

1 C6.3, C6.8 — 1'= 5'

NOTES

1. POT-HOLE AND LOCATE EXISTING WATER PIPING. VERIFY INVERT ELEVATIONS. NOTIFY ENGINEER IF CONDITIONS DIFFER THAN WHAT IS INDICATED.

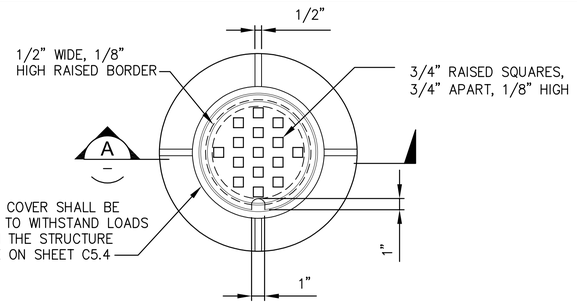




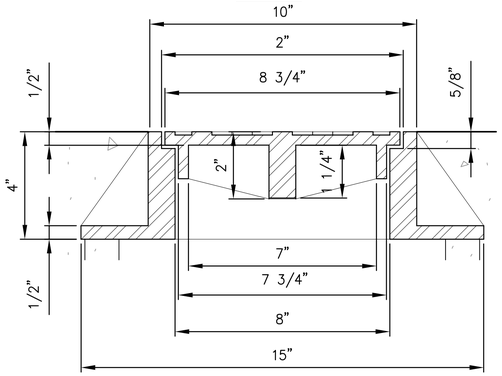
SCALE: 1"=5'

8" CONNECTION TO FIRE WATER AND DOMESTIC WATER

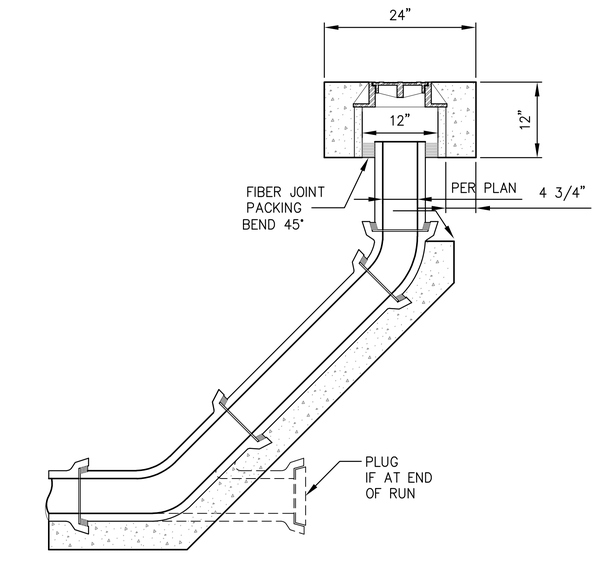
3 C6.1 — 1'= 5'



PLAN



SECTION A



2 C6.15, C6.17, C6.18 — **SANITARY CLEANOUT** — NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE

PRINTED BY: smillett Jul 18, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
UTILITY DETAILS - SHEET 8

TOWNSHIP:		SECTION:	19
RANGE:			39' @ Tide 22 1933
DAT-HRZ:	WA83-SF	VERT:	MLLW
PARCEL:	CONFORMED	DRAWING SCALE:	AS NOTED

6552
C6.22
SH 109 OF 499

CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.22 (South Fire Connection)

EQUIPMENT LIST

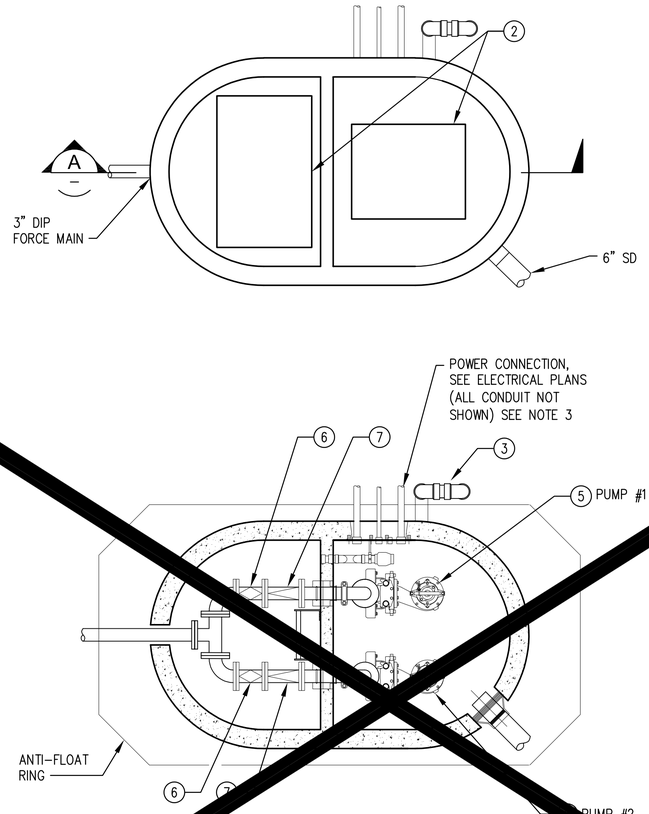
(1)	OLDCASTLE ONELIFT RC509 PRECAST WET WELL	1	SEE SPECS
(2)	HS-20 LOAD RATED ACCESS HATCHES	2	SEE SPECS
(3)	4" DI VENT WITH GOOSENECK AND BUG SCREEN	1	SEE SPECS
(4)	EXTERIOR DAMPPROOFING (BELOW GROUND WATER)	1	SEE SPECS
(5)	FLYGT SUBMERSIBLE NON-CLOG SEWAGE PUMP FP 3068 LT 3	2	SEE SPECS
(6)	3" CHECK VALVE	2	SEE SPECS
(7)	3" ECCENTRIC PLUG VALVE	2	SEE SPECS
(8)	3" CL 53 SPOOL FLG X FLG ASPHALT COATED LENGTH AS REQD	PER MFR	SEE SPECS
(9)	STAINLESS STEEL GUIDE BARS	2	SEE SPECS
(10)	2" PVC VALVE VAULT FLOOR DRAIN WITH BACK CHECK VALVE	1	SEE SPECS
(11)	ALUMINUM ACCESS LADDER	1	SEE SPECS
(12)	FLOOR STAND PIPE SUPPORTS, STAINLESS STEEL	1	SEE SPECS
(13)	PIPE SUPPORT	2	SEE SPECS

ELEVATIONS

DESCRIPTION	REF	PUMP STA ELEV.
MANHOLE RIM	A	19.30
TOP OF WET WELL	B	17.45
FORCE MAIN OUT	C	13.45
HIGH WATER ALARM	D	12.30
PUMP 2 ON	E	10.85
GRAVITY LINE IN	F	10.53
LPUMP 1 ON	G	8.85
ALL PUMPS OFF	H	5.85
BOTTOM OF WET WELL	I	4.60

PUMP CHARACTERISTICS

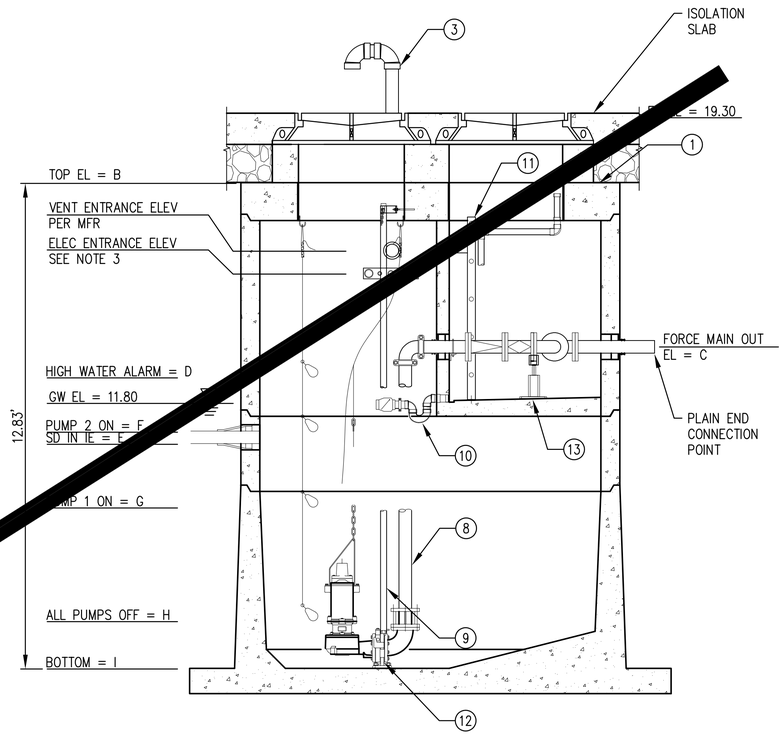
	MIN EFF %	PUMP RATING GPM	PUMP RATING PASS Ø	TDH FT	MOTOR RATING M	MOTOR RATING HP	MOTOR RATING VOLTS
PUMP 1, PUMP 2 & MOTORS	37%	115	–	[illegible]	VARIES	2.7	460



PLAN

1 SANITARY SEWER LIFT STATION

C6.17, C6.18 SCALE: NTS



A DETAIL/SECTION

SCALE: NTS DUPLEX PUMP STATION

DETAIL NOT USED, SEE SHEET C6.23 A FOR LIFT STATION DETAIL

NOTES:

1. SANITARY SEWER LIFT STATION WET WELL, PUMPS, VALVES, AND ALL OTHER COMPONENTS SHALL BE SUPPLIED FROM THE SAME MANUFACTURER OR VENDOR AND SHALL HAVE BEEN COMPLETELY ASSEMBLED ONSITE TO ENSURE COMPONENT COMPATABILITY PRIOR TO SHIPPING TO PROJECT SITE. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. ALL PENETRATIONS INTO WET WELL SHALL BE MADE WATERTIGHT.
3. ALARM LIGHT AND HORN SHALL BE MOUNTED OUTSIDE OF THE FIRE RISER ROOM ON THE SOUTHEAST SIDE OF THE MARINE BUILDING. SEE MARINE BUILDING PACKAGE.
4. WET WELL, MANHOLE FRAMES AND LIDS SHALL BE CONTRACTOR DESIGNED TO WITHSTAND HS20 LOADING. SEE SPECIFICATIONS FOR FURTHER DESIGN REQUIREMENTS.

RECORD DRAWINGS

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.23 (Sanitary Sewer Lift Station)

BINDING EDGE

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

APPROVED:

DIRECTOR ENG. DATE PROJ. ENGR DATE
PRINTED BY: smillett Jul 17, 2018
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

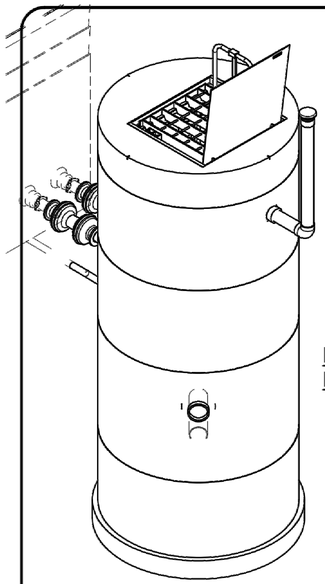
PIER 4 PHASE 2 RECONFIGURATION
SANITARY SEWER LIFT STATION PLAN AND SECTION

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	

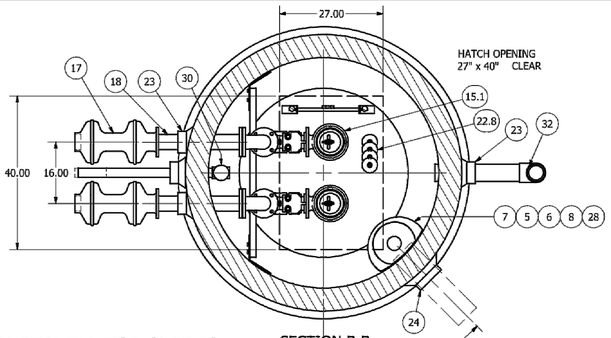
SECTION:
VERT: MLLW 19.39' @ Tide 22 1933
DRAWING SCALE: AS NOTED

6552
C6.23
SH 110 OF 499

BINDING EDGE



ISO VIEW
SCALE 1 / 22



SECTION B-B
SCALE 1 / 16

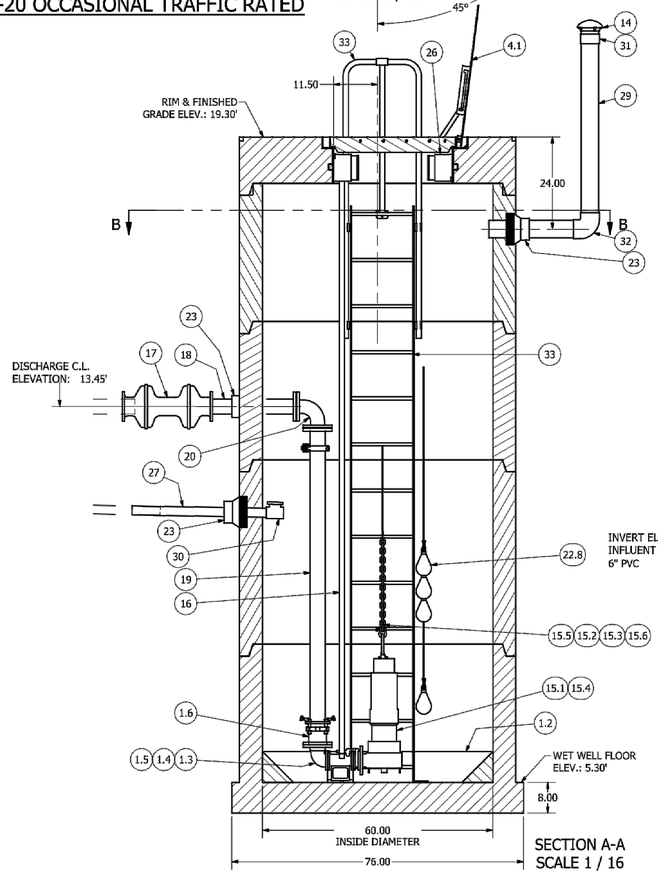
NOTE: WET WELL TOP SLAB IS
H-20 OCCASIONAL TRAFFIC RATED

5' DIAMETER WET WELL
3" DISCHARGE PIPING
DUPLEX EBARA PUMPS
3" 660 VALVE VAULT

NOTE:
CONDUIT TO CONTROL PANEL (BY OTHERS)
MINIMUM:
(2) FOR POWER
(1) FOR LEVEL SENSING

ALL MATERIALS SHOWN ON THIS SHEET WILL BE SUPPLIED BY ROMTEC UTILITIES AND DELIVERED TO THE SITE AFTER THE HOLE HAS BEEN EXCAVATED AND SHORED. THE CONTRACTOR SHALL SUPPLY A CRANE OF SUFFICIENT SIZE TO LOWER ALL THE CONCRETE PIECES INTO THE HOLE SAFELY. THE THE CONTRACTOR SHALL INSTALL THE WET WELL (AND VALVE VAULT AND METERING VAULT IF APPLICABLE). ROMTEC UTILITIES WILL PROVIDE A REPRESENTATIVE FOR TECHNICAL ASSISTANCE ON THE DAY OF INSTALLATION TO ANSWER ANY QUESTIONS THAT MAY ARISE. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING AND ELECTRICAL CONNECTIONS AND INSTALLATION. ITEMS NOTED AS "BY OTHERS" WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. ROMTEC UTILITIES WILL NOT INSTALL ANY OF THE COMPONENTS SHOWN ON THIS PAGE.

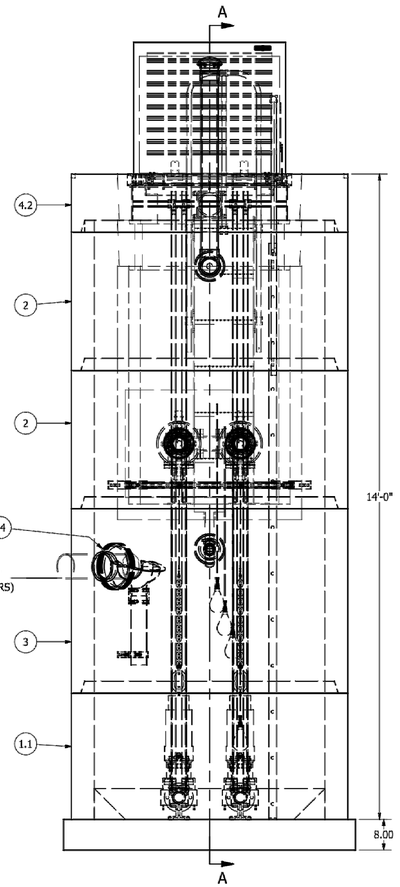
© 2016 ROMTEC INC. ALL RIGHTS RESERVED. THESE PLANS AND DRAWINGS MAY NOT BE REPRODUCED, ADAPTED, OR FURTHER DISTRIBUTED, AND NO COMPONENTS MAY BE CONSTRUCTED FROM THESE PLANS, WITHOUT WRITTEN PERMISSION OF ROMTEC, INC.



SECTION A-A
SCALE 1 / 16

INVERT ELEVATION: 10.53'
INFLUENT SEWER (BY OTHERS)
6" PVC

SENSOR AND ELEVATION TABLE		
LEVEL ELEVATION	DISTANCE BETWEEN POINTS	SET POINT DESCRIPTION
10.53'		INVERT IN
---		BACK UP PUMPS START
	---	SENSOR SPACING
---		BACK UP PUMPS STOP
	---	SENSOR SPACING
---		BACK UP HL ALARM
10.30'		HIGH LEVEL ALARM
	0.50'	SENSOR SPACING
9.80'		LAG PUMP START
	0.50'	SENSOR SPACING
9.30'		LEAD PUMP START
	2.00'	SENSOR SPACING
7.30'		PUMP STOP
	2.00'	DISTANCE TO FLOOR
5.30'		FLOOR ELEVATION



FRONT VIEW
SCALE 1 / 16

PARTS LIST			
ITEM	QTY	STOCK NUMBER	DESCRIPTION
1	1	10-CB000000	BASE SLAB ASSEMBLY
1.1	1	10-CB053600	BASE - WW - 5ft DIA x 36in
1.2	1	10-GR050000	GROUT RING - 5ft DIA
1.3	2	31-EL2H03EB	DISCHARGE ELBOW - 2.5IN X 3IN - EBARA
1.4	2	31-HW00AKS6	ANCHOR KIT - DISCHARGE ELBOW
1.5	2	31-QD2HLMEB	QDC - 2.5in - LM65 - EBARA
1.6	2	44-AD03RMD0	RFCA - 3in - ROMAC - FBEC w/SS HARDWARE
2	2	12-CR053600	BARREL - 5ft DIA x 3ft H
3	1	12-CR054800	BARREL - 5ft DIA x 4ft H
4	1	14-CT000000	TOP SLAB ASSEMBLY
4.1	1	13-HH05HD0U	HATCH - H20 - 5ft
4.2	1	14-CT05HD00	TOP SLAB - 5ft DIA - H20
5	1	15-BR04SS35	BRACKET - PIPE - 4in -SS35 - SDR35
6	1	15-CP040000	COUPLING - FERNCO - 4in
7	1	15-DB040604	DROP BOWL - 4in thru 6in INLET x 4in OUTLET
8	2	15-HWDBANCH	ANCHOR - DROP BOWL
9	2	17-AC38000B	BOLT - UPPER GUIDE BAR BRACKET - 3-8in
10	2	17-UG01S4EB	BRACKET - 304SS - UPPER GUIDE BAR - 1in - EBARA
11	1	18-5145	DISCHARGE PIPE SUPPORT - UNISTRUT
12	2	18-AC010HSB	BOLT KIT - DISCHARGE CLAMP - BOLT, WASHER, LOCK NUT
13	2	18-AC03CLS6	DISCHARGE CLAMP - 316SS - 3in
14	1	18-VT0000MC	VENT - MUSHROOM CAP
15	1	30-PU000000	PUMP SHIPPING CRATE
15.1	2	30-PU0000EB	PUMP - EBARA 80DVFMU61.54 - 2HP
15.2	2	32-AC580LNK	LINK - 316SS - .625in - OBLONG - 3800# WLL
15.3	2	32-BS7160SS	BOW SHACKLE - 316SS - 7-16in
15.4	2	32-CGA000SS	CORD GRIP - .750in - .990 - SS
15.5	4.0 ft	32-PL3800S6	CHAIN - 316SS - 3-8in S5
15.6	2	32-PLLSA000	LIFTING SLING ASSEMBLY - CABLE
16	52.0 ft	40-PP0100S4	PIPE - 304SS SCH40 - 1in DIA
17	2	44-CP0304FJ	COUPLING - FLEX JOINT - 3in DIA - 4in OFFSET - MJ
18	2	45-FP030240	SPOOL - DI - 3in DIA x 24in - FLGxPE
19	2	45-FP030840	SPOOL - DI - 3in DIA x 84in - FLGxPE
20	2	46-EL0390DI	ELBOW - DI - 3in x 90deg FLGxFLG
21	4	49-GS030000	GASKET - FLANGE - 3in
22	1	50-AC000000	WELL SHIPPING CRATE
22.1	4	12-GS000001	BARREL - GASKET
22.2	1	13-KY000000	HATCH KEY
22.3	4	18-AC00CH00	CABLE HANGER ASSEMBLY
22.4	1	18-HD000EYE	LIFTING EYE
22.5	1	51-AC00NSTB	NEVER SIEZE - TUBE
22.6	63 ft	51-SE3Q3QSL	SEALANT - 0.75in x 0.75in - 21ft/ROLL - CS-202
22.7	61 ft	51-TC060000	TAPECOAT - 6in
22.8	4	80-FS20MSNL	FLOAT - 20m - MS1 - NOLTA
23	4	59-KB080400	KOR-N-SEAL - 8in CORE THRU 4in PIPE
24	1	59-KB1206DI	KOR-N-SEAL - 12in CORE x 6in DI PIPE
25	1	61-JB999999	JUNCTION BOX - NEMA 4X (FOR LEVEL SENSING)
26	2	61-JBGUBB11	JUNCTION BOX - EXPL. PROOF
27	3 ft	70-PP0200P4	PIPE - PVC SCH40 - 2in X36in
28	1	70-PP0400DR	PIPE - PVC SDR35 - 4in DIA
29	6.0 ft	70-PP0400P8	PIPE - PVC SCH80 - 4in DIA
30	1	72-DB0205P8	DRAINBACK VALVE - PVC - 2in
31	1	74-AD04008M	ADAPTER - PVC SCH80 - 4in - SLIP x MNPT
32	1	76-EL049080	ELBOW - PVC SCH80 - 4in x 90deg - SLIP
33	1	25-LD120600	LADDER - 12ft-6in

NOTE: ALL DIMENSIONS AND ELEVATIONS SHOWN ARE NOMINAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE ON-SITE CONTRACTOR OR ROMTEC UTILITIES CUSTOMER (NOT ROMTEC UTILITIES) TO VERIFY THE ACCURACY OF ANY CRITICAL DIMENSIONS OR ELEVATIONS PRIOR TO SETTING OR INSTALLING ANY EQUIPMENT.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROV
0	SR WET WELL INIT. DESIGN	10-24-16	KB
1		12-23-16	AD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY
0 1"

DSN - KEVIN BOGAN
DRN - KEVIN BOGAN
CKD -
DATE - 10-3-16

COMPONENT DRAWING

ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
(541) 496-9678
FAX (541) 496-0804

PIER 4
WET WELL ASSEMBLY

SHEET
1 OF 2

JOB NUMBER
RMTC
0000

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
		PRINTED BY: smillett Jul 18, 2018	
		PORT ADDRESS: ONE SITCUM PLAZA	
		TACOMA, WA 98401-1837	

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
SANITARY SEWER LIFT STATION ALTERNATE

TOWNSHIP:	RANGE:	SECTION:
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PARCEL: CONFORMED	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

6552
C6.23A
SH 110.1 OF 499

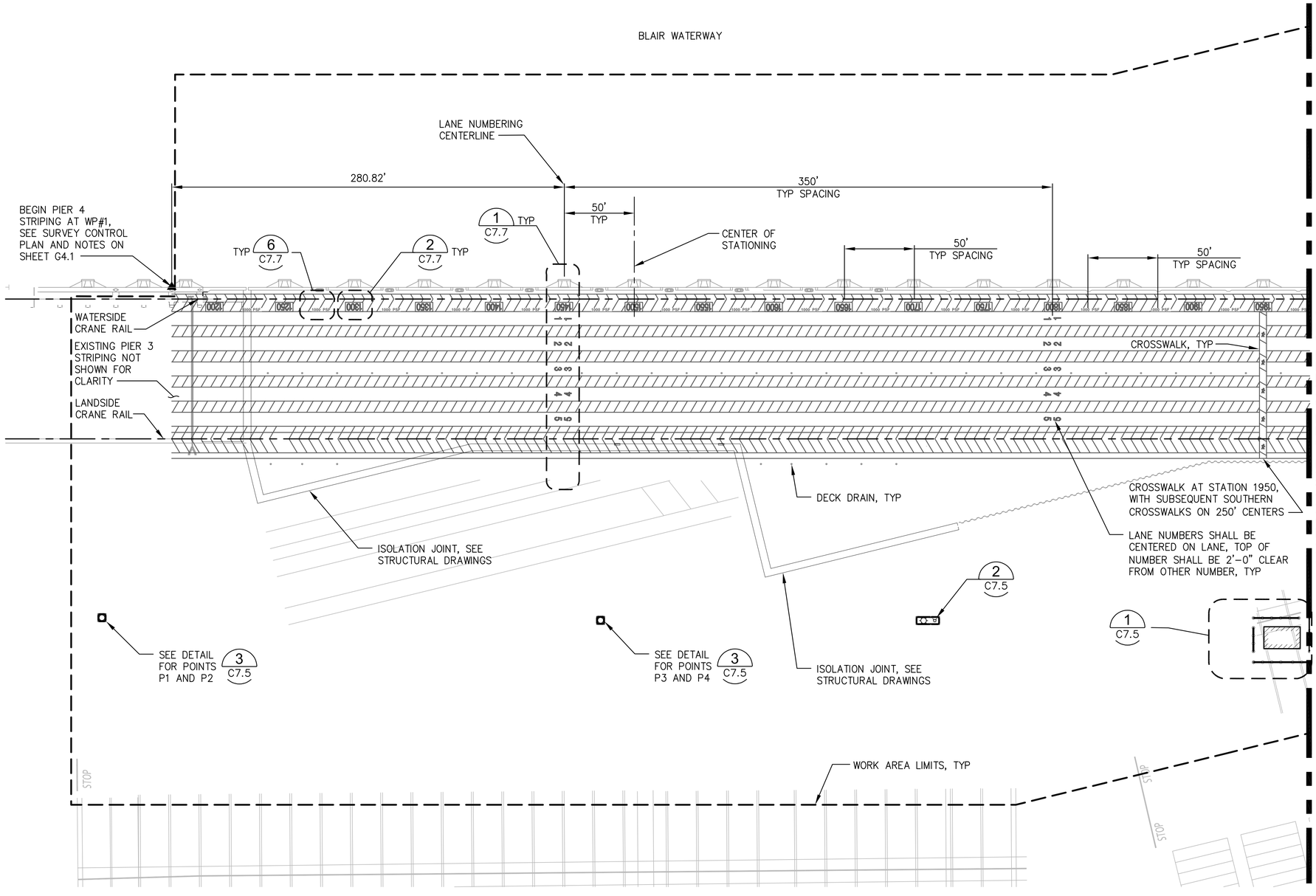
CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C6.23 (Sanitary Sewer Lift Station)

BINDING EDGE

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.1-C7.2-C7.3 (Striping and Fencing Plan - Sheet X)



STRIPING AND FENCING PLAN

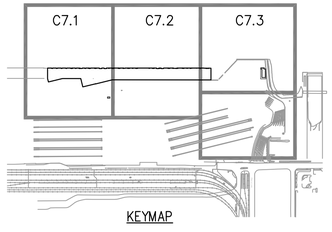
SCALE: 1"=40'

NOTES

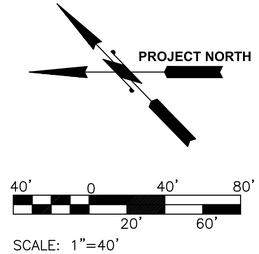
1. BEGIN STATIONING WITH NUMBER 1200. CONTRACTOR TO VERIFY LAST STATION NUMBER FROM PIER 3 AND CONTINUE STATIONING EVERY 50'.
2. PRECAST TYPE 2, CONCRETE BARRIER SEGMENTS SHALL BE 10 FT IN LENGTH. MATERIALS AND INSTALLATION SHALL BE PER THE LATEST VERSION OF THE WSDOT STANDARD PLANS AND SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. BARRIERS ARE TO BE PINNED TO GROUND.
3. CONTRACTOR SHALL COORDINATE WORK WITH PORT FOR ANY RESTRICTED WORK OUTSIDE WORK LIMITS.
4. STRIPES SHALL START AT EDGE OF NEW PAVEMENT AND TIE INTO THE EXISTING STRIPES WHERE APPLICABLE. CONTRACTOR SHALL LAYOUT ALL STRIPING IN THIS AREA FOR APPROVAL PRIOR TO PLACING ANY PAVEMENT MARKINGS.

LEGEND

- PROJECT WORK AREA LIMITS
- PRECAST WSDOT CONCRETE BARRIER, TYPE 2, SEE NOTE 2
- ABOVE GROUND FIRE HYDRANT, SEE UTILITY PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- WATERSIDE/LANDSIDE CRANE RAIL
- BOLLARD



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

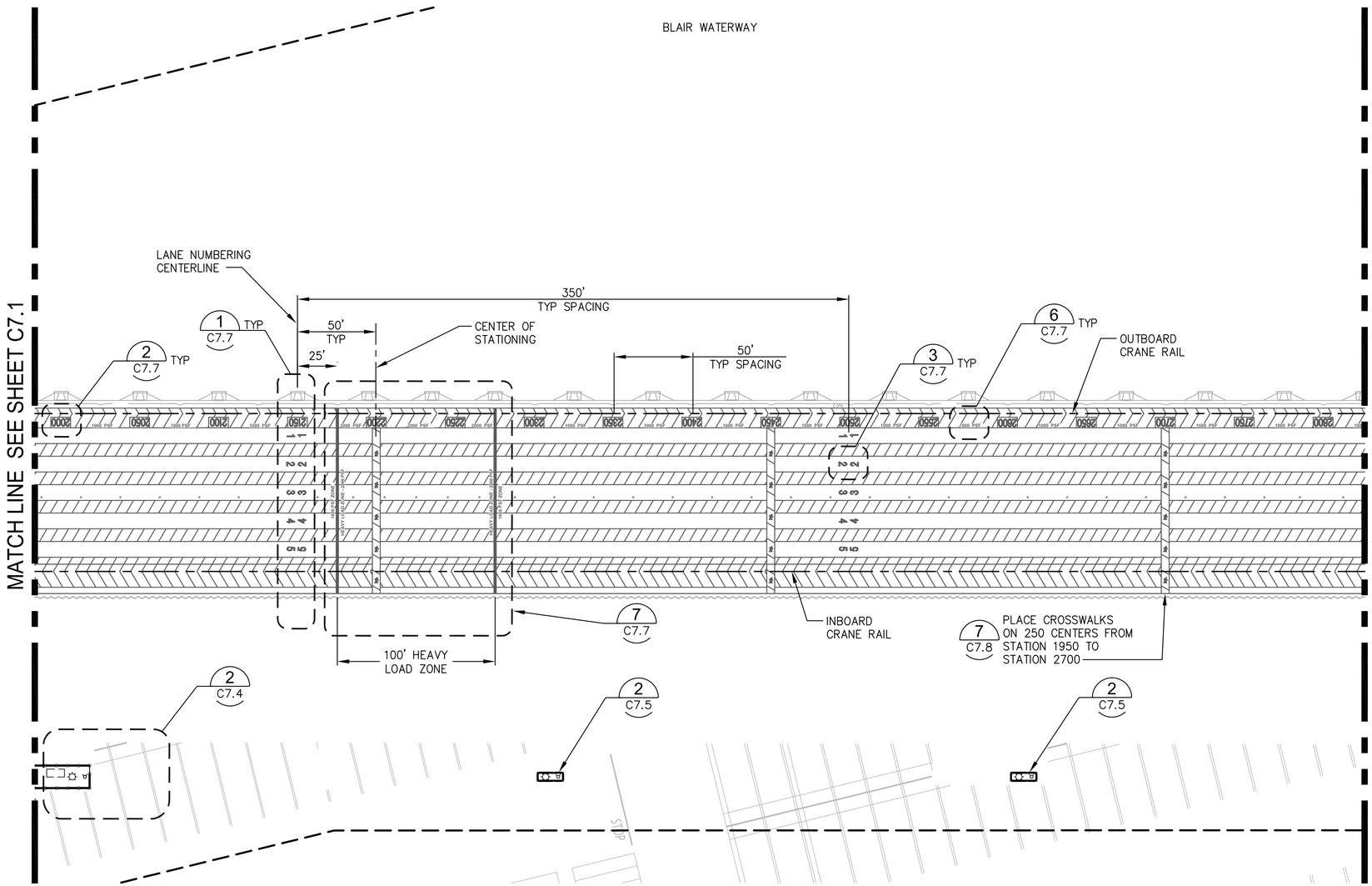
DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
STRIPING AND FENCING PLAN - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	VERT:	MLLW 19.39' @ Tide 22 1933
		PARCEL:	DRAWING SCALE: AS NOTED
		SECTION:	
		PRINTED BY:	smillett Jul 17, 2018
		PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
C7.1
SH 111 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



STRIPING AND FENCING PLAN

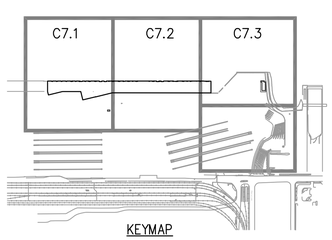
SCALE: 1"=40'

NOTES

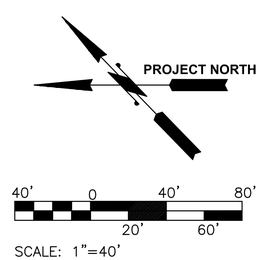
1. BEGIN STATIONING WITH NUMBER 1200. CONTRACTOR TO VERIFY LAST STATION NUMBER FROM PIER 3 AND CONTINUE STATIONING EVERY 50'.
2. PRECAST TYPE 2, CONCRETE BARRIER SEGMENTS SHALL BE 10 FT IN LENGTH. MATERIALS AND INSTALLATION SHALL BE PER THE LATEST VERSION OF THE WSDOT STANDARD PLANS AND SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. BARRIERS ARE TO BE PINNED TO GROUND.
3. CONTRACTOR SHALL COORDINATE WORK WITH PORT FOR ANY RESTRICTED WORK OUTSIDE WORK LIMITS.
4. STRIPES SHALL START AT EDGE OF NEW PAVEMENT AND TIE INTO THE EXISTING STRIPES WHERE APPLICABLE. CONTRACTOR SHALL LAYOUT ALL STRIPING IN THIS AREA FOR APPROVAL PRIOR TO PLACING ANY PAVEMENT MARKINGS.

LEGEND

- PROJECT WORK AREA LIMITS
- PRECAST WSDOT CONCRETE BARRIER, TYPE 2, SEE NOTE 2
- ABOVE GROUND FIRE HYDRANT, SEE UTILITY PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- WATERSIDE/LANDSIDE CRANE RAIL
- BOLLARD



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2500/253-383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: smillett Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
STRIPING AND FENCING PLAN - SHEET 2

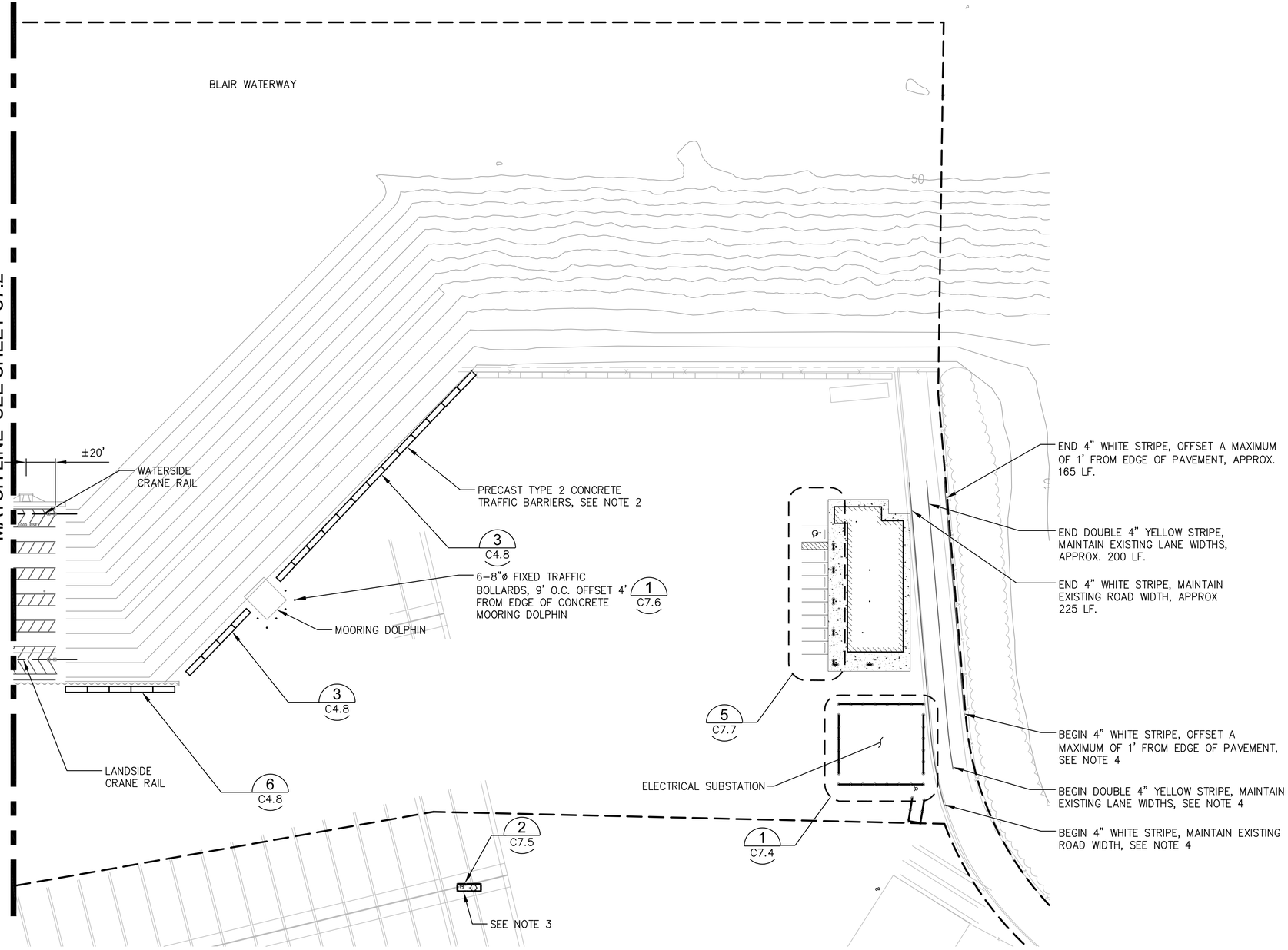
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
C7.2
SH 112 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.1-C7.2-C7.3 (Striping and Fencing Plan - Sheet X)
BINDING EDGE



STRIPING AND FENCING PLAN

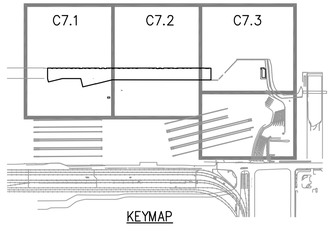
SCALE: 1"=40'

NOTES

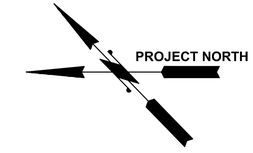
1. BEGIN STATIONING WITH NUMBER 1200. CONTRACTOR TO VERIFY LAST STATION NUMBER FROM PIER 3 AND CONTINUE STATIONING EVERY 50'.
2. PRECAST TYPE 2, CONCRETE BARRIER SEGMENTS SHALL BE 10 FT IN LENGTH. MATERIALS AND INSTALLATION SHALL BE PER THE LATEST VERSION OF THE WSDOT STANDARD PLANS AND SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. BARRIERS ARE TO BE PINNED TO GROUND, AND PAINTED AND PRIMED WITH TWO COATS OF "SAFETY YELLOW"
3. CONTRACTOR SHALL COORDINATE WORK WITH PORT FOR ANY RESTRICTED WORK OUTSIDE WORK LIMITS.
4. STRIPES SHALL START AT EDGE OF NEW PAVEMENT AND TIE INTO THE EXISTING STRIPES WHERE APPLICABLE. CONTRACTOR SHALL LAYOUT ALL STRIPING IN THIS AREA FOR APPROVAL PRIOR TO PLACING ANY PAVEMENT MARKINGS.

LEGEND

- PROJECT WORK AREA LIMITS
- PRECAST WSDOT CONCRETE BARRIER, TYPE 2, SEE NOTE 2
- ABOVE GROUND FIRE HYDRANT, SEE UTILITY PLANS
- LIGHT POLE, SEE ELECTRICAL PLANS
- WATERSIDE/LANDSIDE CRANE RAIL
- BOLLARD



KEYMAP



40' 0 40' 80'
20' 60'

SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY:	rbaganz Jul 17, 2018	PROJ. ENGR	DATE
PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
STRIPING AND FENCING PLAN - SHEET 3

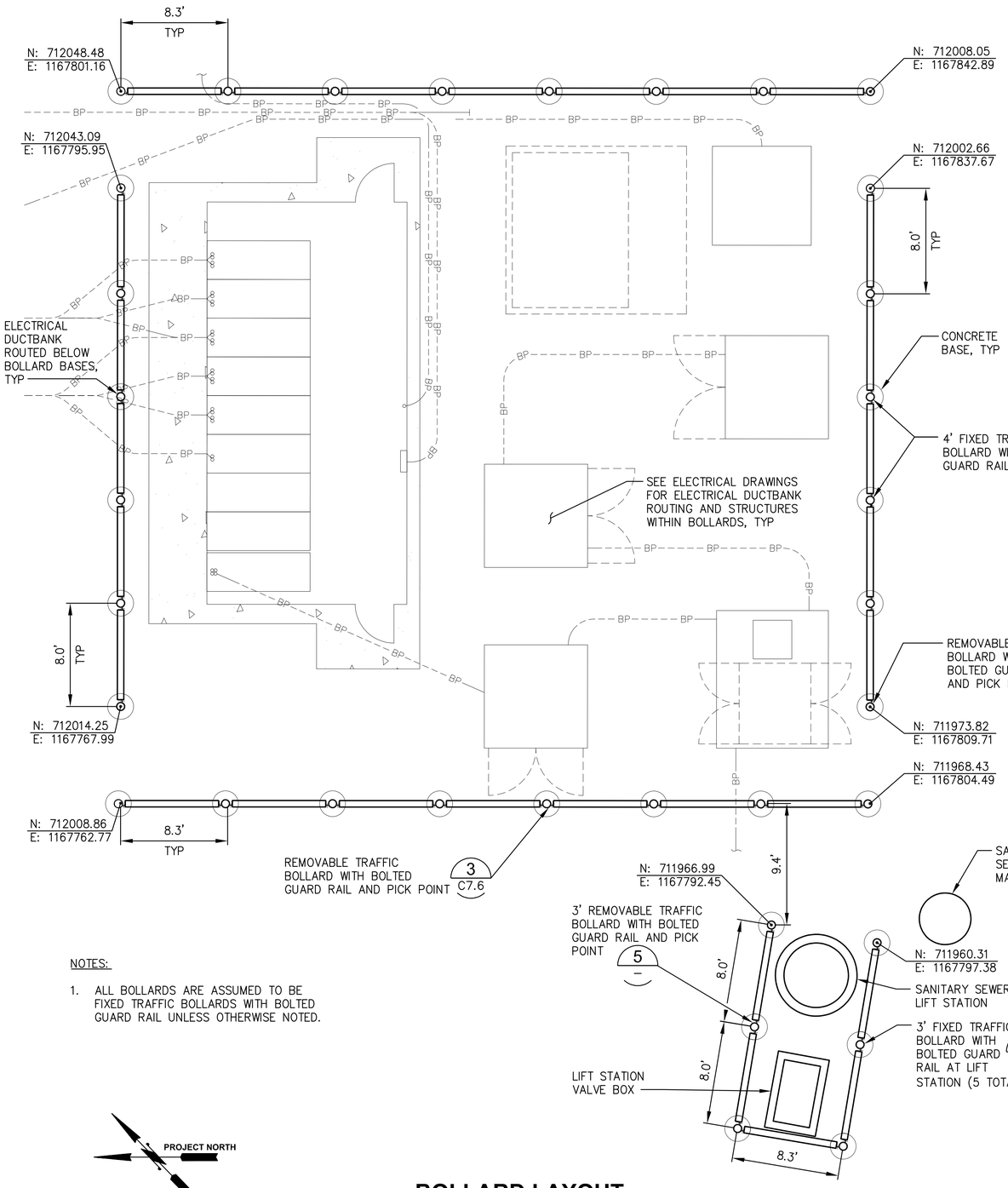
TOWNSHIP:	RANGE:	SECTION:
DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PARCEL: CONFORMED		

CONT/CONS: 0701136
M. ID: 0911251

6552
C7.3
SH 113 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\0911251-C7.1-C7.2-C7.3 (Striping and Fencing Plan - Sheet X)
BINDING EDGE

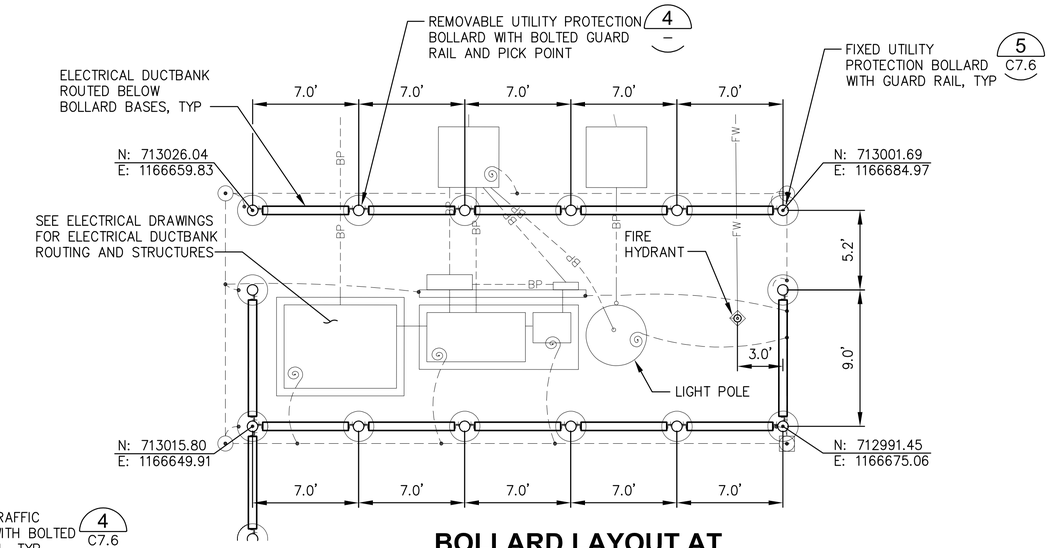


NOTES:

1. ALL BOLLARDS ARE ASSUMED TO BE FIXED TRAFFIC BOLLARDS WITH BOLTED GUARD RAIL UNLESS OTHERWISE NOTED.

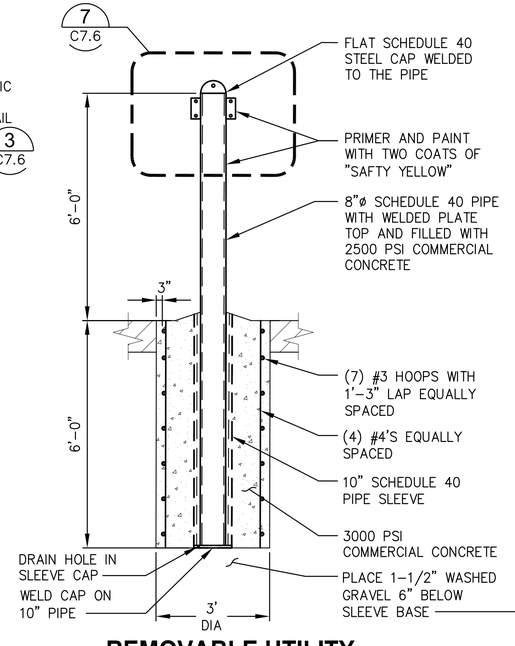
BOLLARD LAYOUT AT SUBSTATION

1 / C4.17, C7.3 — SCALE: 1"=5'



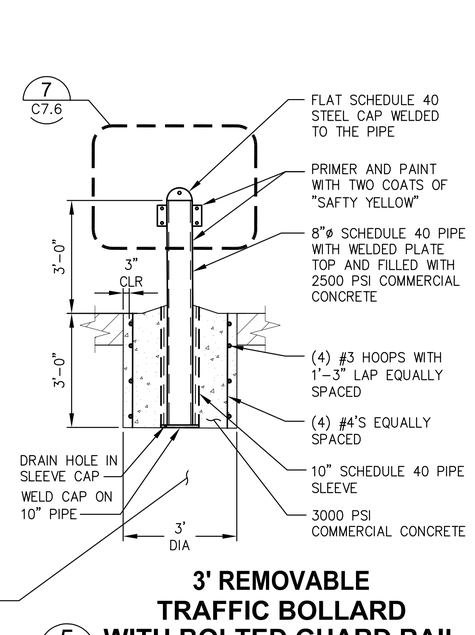
BOLLARD LAYOUT AT YARD ELECTRICAL DISTRIBUTION

2 / C7.2 — SCALE: 1"=5'



REMOVABLE UTILITY PROTECTION BOLLARD WITH BOLTED GUARD RAIL

4 / – — NTS



3' REMOVABLE TRAFFIC BOLLARD WITH BOLTED GUARD RAIL

5 / – — NTS

PROJECT NORTH

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

MARK:	REVISION:	BY:	APPR:	DATE:
	REVS FOR EQUIPMENT			

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

APPROVED:

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	smillett Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

PIER 4 PHASE 2 RECONFIGURATION
ENLARGED FENCING PLANS

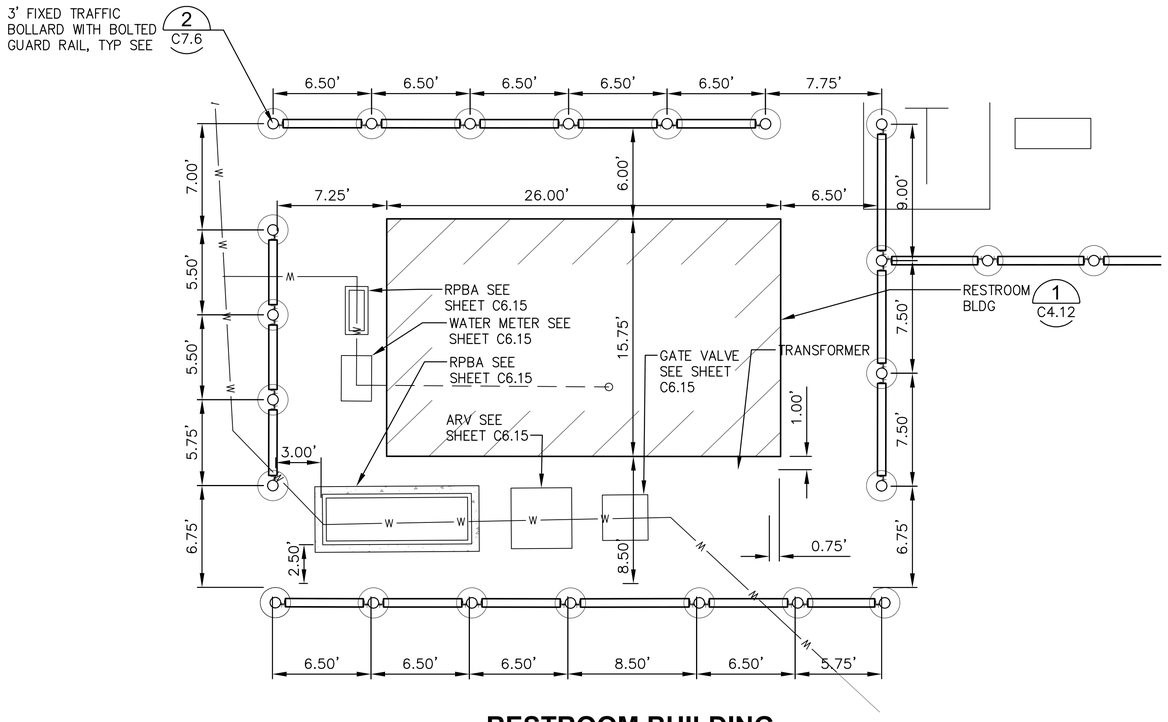
CONT/CONS:	0701.36	TOWNSHIP:		RANGE:		SECTION:	
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide Station	22	1933
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:	AS NOTED		

6552
C7.4
SH 114 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

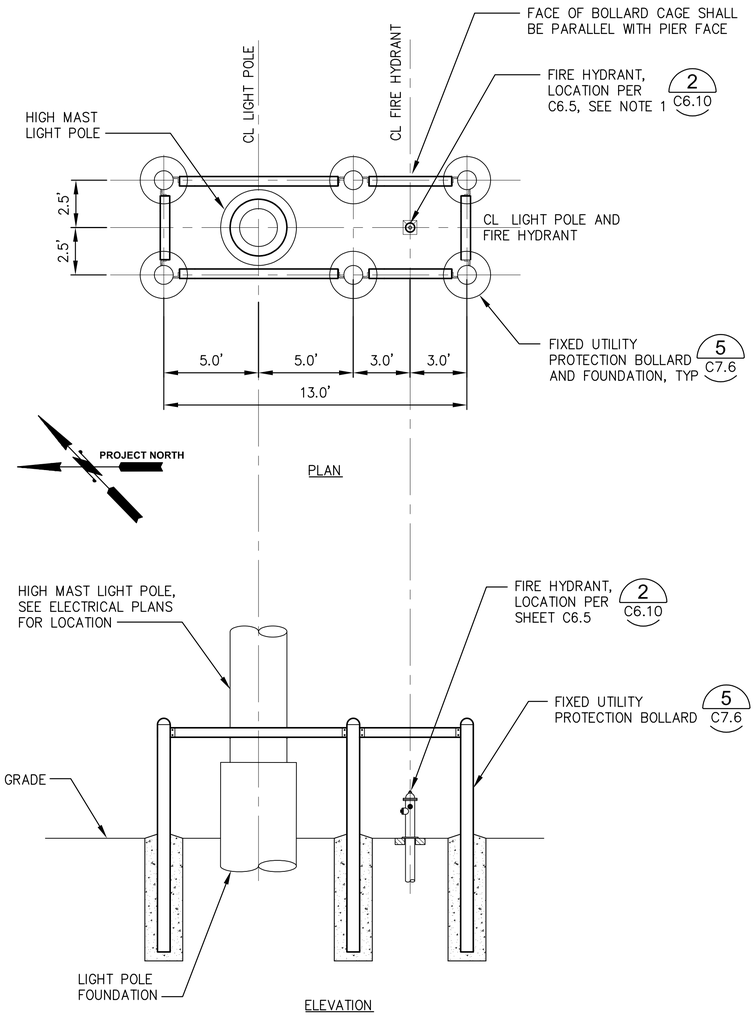
PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.4-C7.7-C7.8 (Striping and Fencing Details & Substation Plan)

BINDING EDGE



RESTROOM BUILDING BOLLARD LAYOUT AND STRIPING PLAN

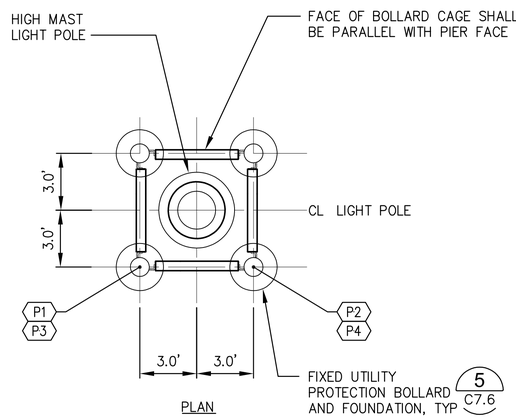
1 C6.15, C7.2 SCALE: 1"=5'

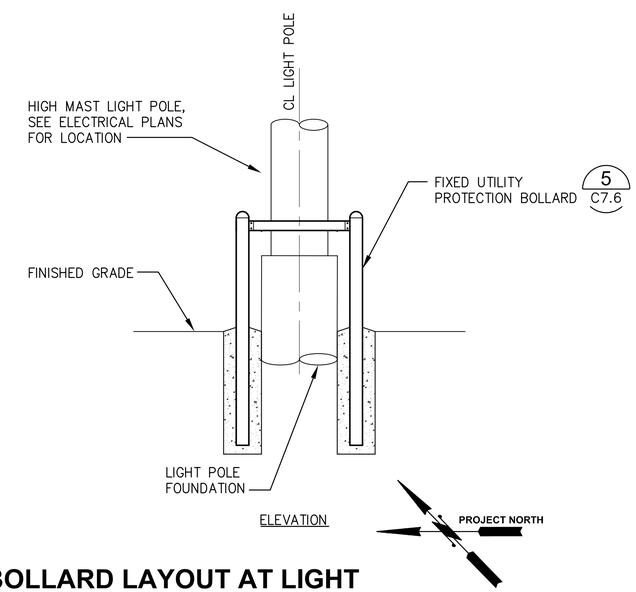


BOLLARD LAYOUT AT ABOVE GROUND FIRE HYDRANTS

2 C7.1, C7.2, C7.3 SCALE: NTS

NOTES:
1. HYDRANT FH–6 IS PLACED TO NORTH OF EXISTING LIGHT POLE, SEE UTILITY PLAN FOR ORIENTATION AND HORIZONTAL CONTROL OF HYDRANT.
2. SEE STRUCTURAL DRAWINGS FOR LIGHT POLE AND AUXILIARY POLE FOUNDATION DETAILS.





BOLLARD LAYOUT AT LIGHT POLES WITHOUT HYDRANTS

3 C7.1, C7.2, C7.3 SCALE: NTS

BOLLARD HORIZONTAL CONTROL

POINT ID	NORTHING	EASTING
P1	713623.47	1166031.86
P2	713619.30	1166036.17
P3	713373.92	1166287.33
P4	713370.44	1166290.92

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
STRIPING AND FENCING DETAILS - SHEET 1

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY:	smillett Jul 17, 2018	PROJ. ENGR	DATE
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401–1837		

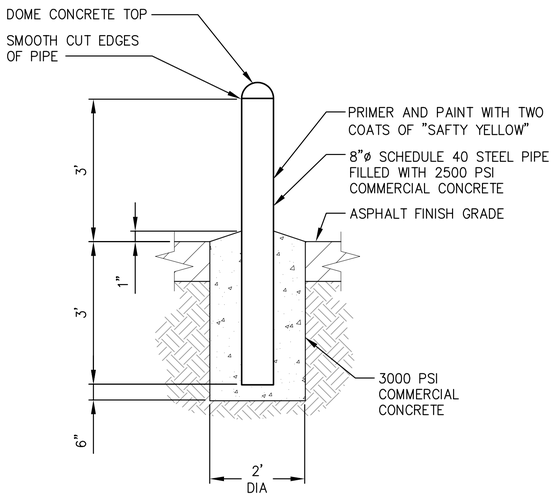
6552
C7.5
SH 115 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
		SECTION:	

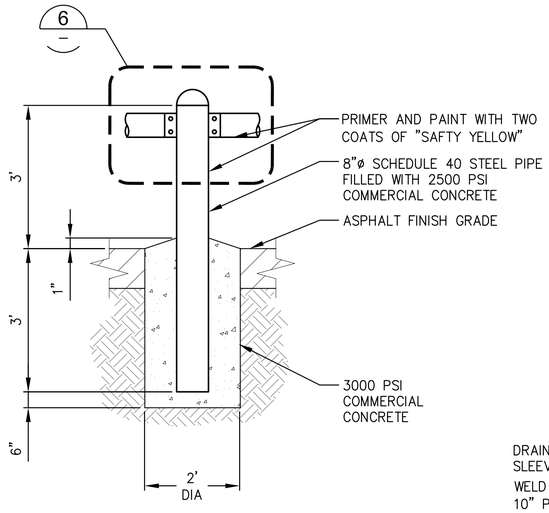
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\20141114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.5-C7.6 (Striping and Fencing Details - Sheet X)
BINDING EDGE

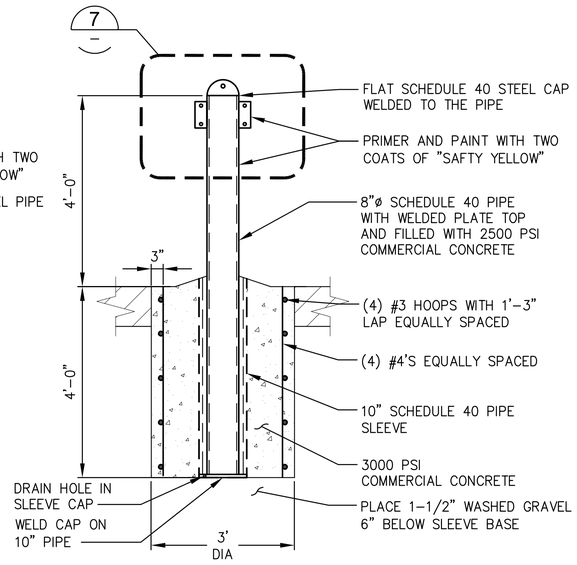
BINDING EDGE



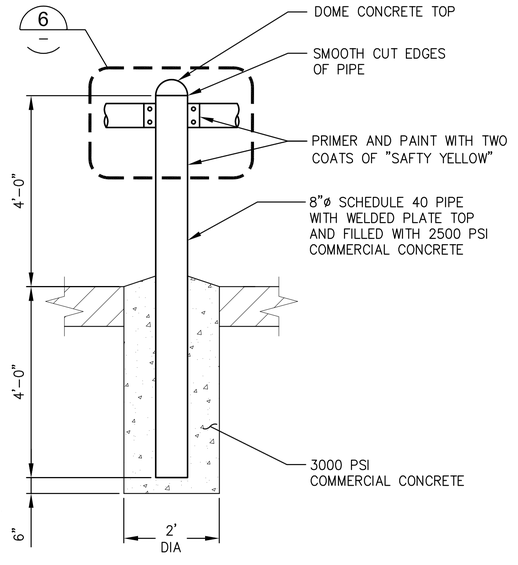
1 FIXED TRAFFIC BOLLARD
C7.3 NTS



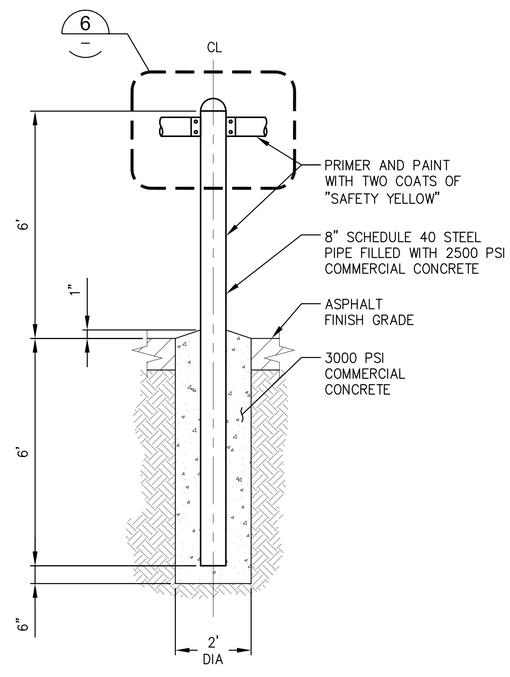
2 3' FIXED TRAFFIC BOLLARD WITH BOLTED GUARD RAIL
C7.4 NTS



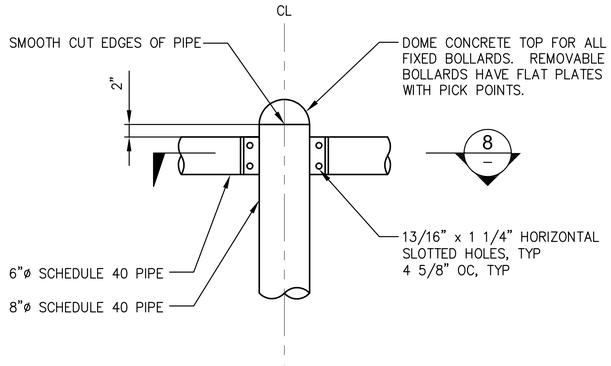
3 REMOVABLE TRAFFIC BOLLARD WITH BOLTED GUARD RAIL
C7.4 NTS



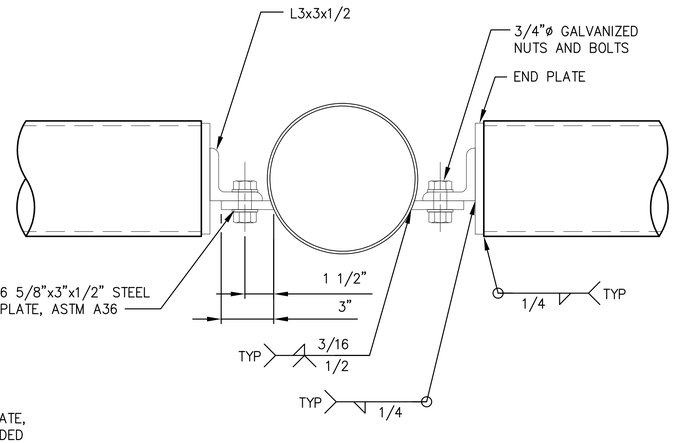
4 4' FIXED TRAFFIC BOLLARD WITH BOLTED GUARD RAIL
C7.4 NTS



5 FIXED UTILITY PROTECTION BOLLARD WITH BOLTED GUARD RAIL
C7.4, C7.5 NTS

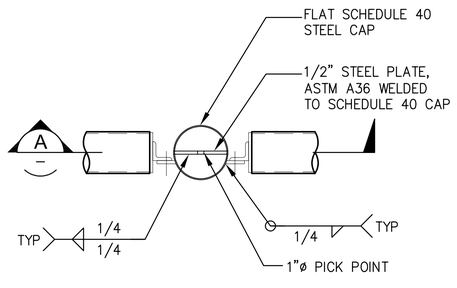


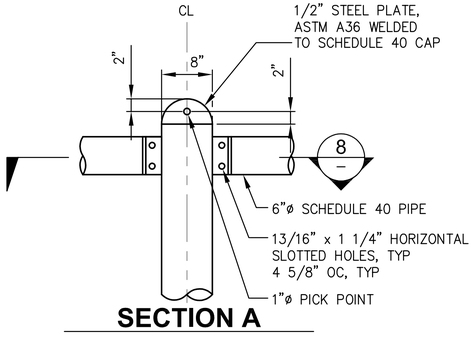
6 BOLTED GUARD RAIL
NTS



8 BOLTED GUARD RAIL SECTION
NTS

NOTES:
1. CORNER BOLLARDS SHALL HAVE GUARD RAILS CONSTRUCTED SIMILARLY BUT HAVE ONE RAIL ROTATED 90° HORIZONTALLY.





SECTION A

7 REMOVABLE BOLLARD CAP
NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR

PRINTED BY: smillett Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

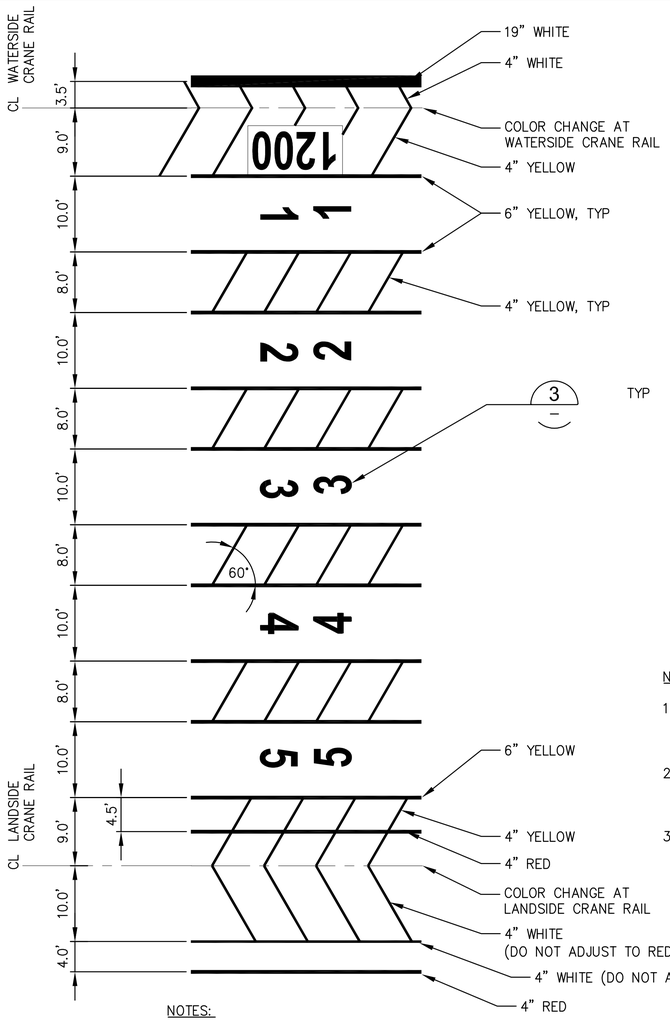
PIER 4 PHASE 2
RECONFIGURATION
STRIPING AND FENCING DETAILS - SHEET 2

CONT/CONS:	0701136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:		

6552
C7.6
SH 116 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.5-C7.6 (Striping and Fencing Details - Sheet X)

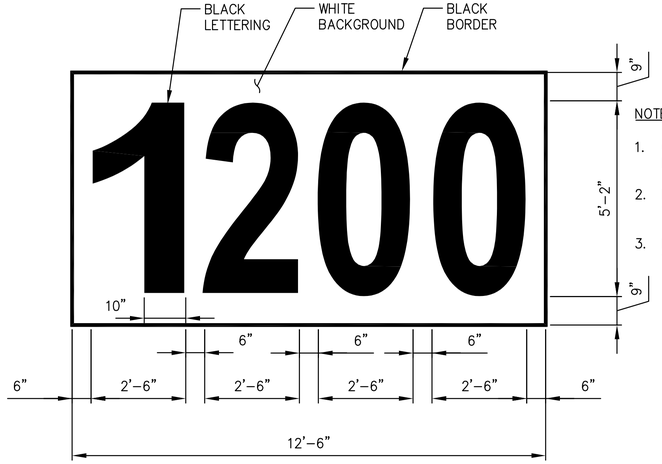


NOTES:

1. DIMENSIONS ARE TO CENTERLINE OF STRIPE.

1 TYPICAL STRIPING PATTERN

C7.1, C7.2, C7.3 — 1"=10'-0"

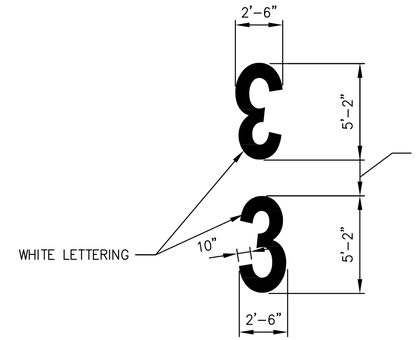


NOTES:

1. CENTER NUMBERS AT 50' INCREMENTS.
2. BEGIN PIER 4 STATIONING AT 1200.
3. NUMBERS SHALL HAVE 10" WIDE STRIPES.

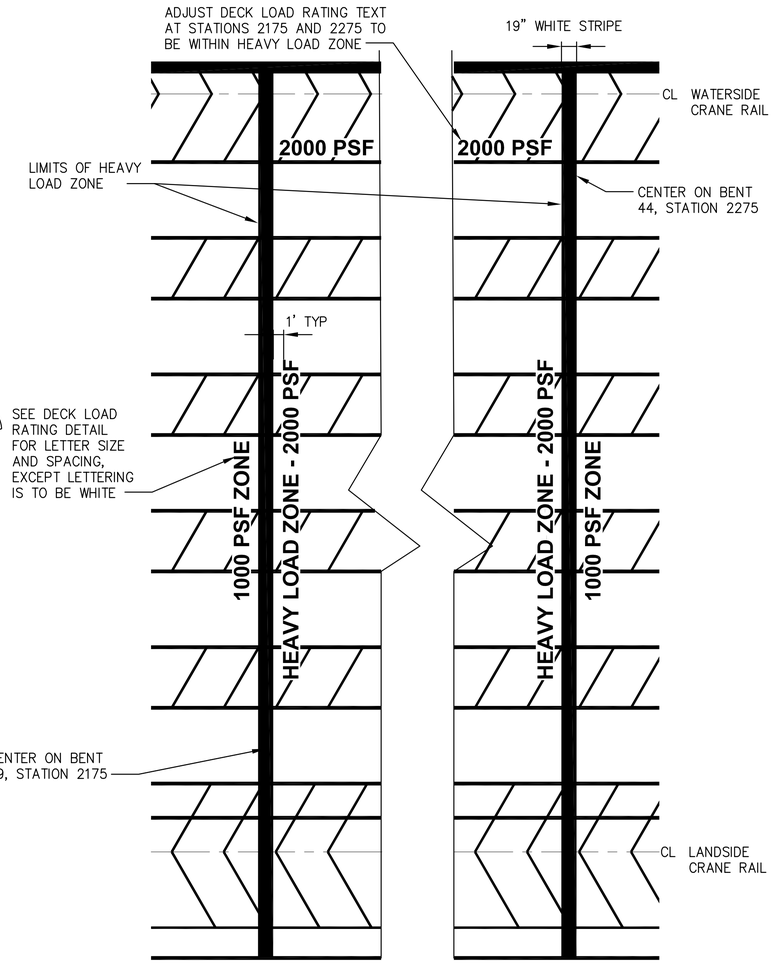
2 STATION STRIPING DETAIL

C7.1, C7.2, C7.3 — SCALE: NTS



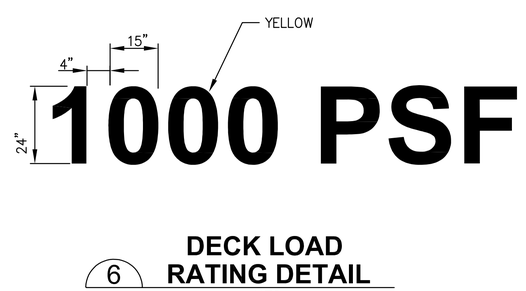
3 LANE NUMBER DETAIL

C7.1, C7.2, C7.3, C7.5 — NTS



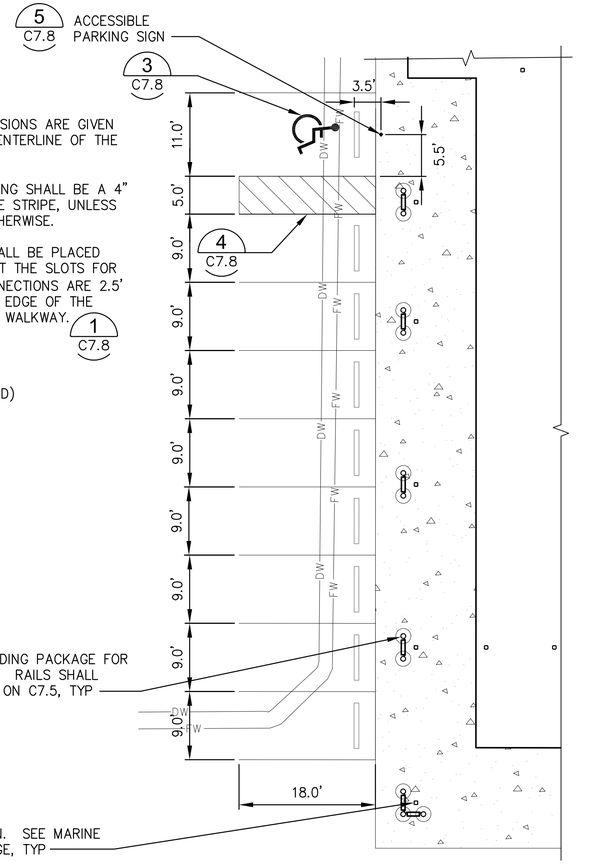
7 HEAVY LOAD ZONE STRIPING

C7.2 — NTS



6 DECK LOAD RATING DETAIL

C7.2 — NTS



NOTES:

1. ALL DIMENSIONS ARE GIVEN TO THE CENTERLINE OF THE STRIPE.
2. ALL STRIPING SHALL BE A 4" WIDE WHITE STRIPE, UNLESS NOTED OTHERWISE.
3. STOPS SHALL BE PLACED SUCH THAT THE SLOTS FOR BOLT CONNECTIONS ARE 2.5' FROM THE EDGE OF THE CONCRETE WALKWAY.

5 STRIPING AT MARINE OPS BUILDING

C7.3 — 1"=10'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 • Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: smillett Jul 17, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
STRIPING AND FENCING DETAILS - SHEET 3

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

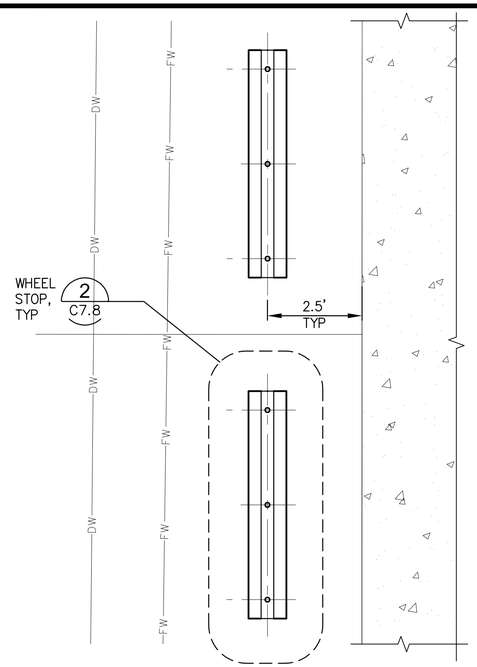
6552
C7.7
SH 117 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

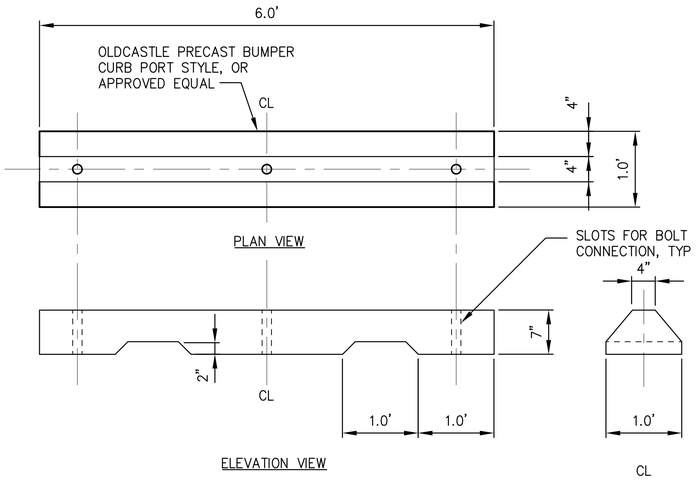
RECORD DRAWINGS

PORT OF TACOMA FILE: M:\2014\1114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.4-C7.7-C7.8 (Striping and Fencing Details & Substation Plan)

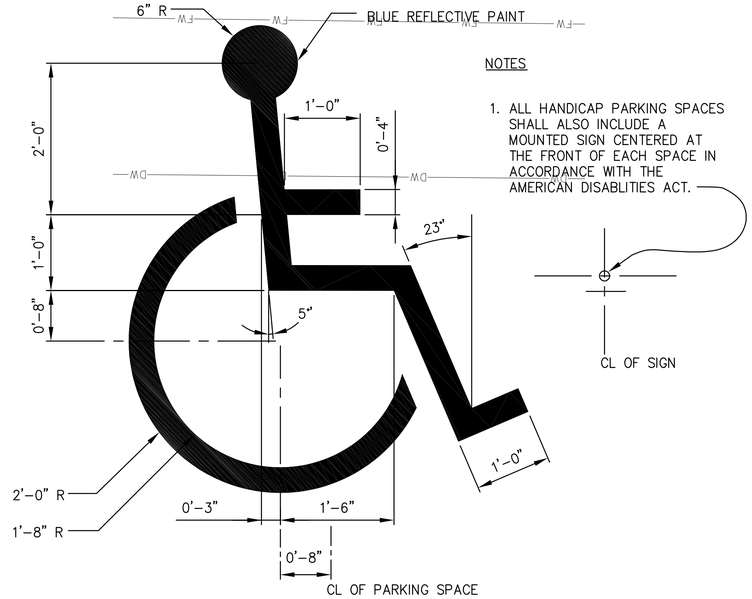
BINDING EDGE



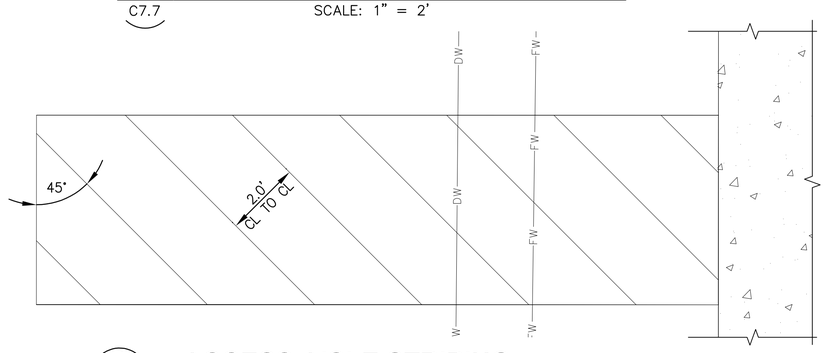
1 WHEEL STOP PLACEMENT
C7.7 — SCALE: 1" = 2'



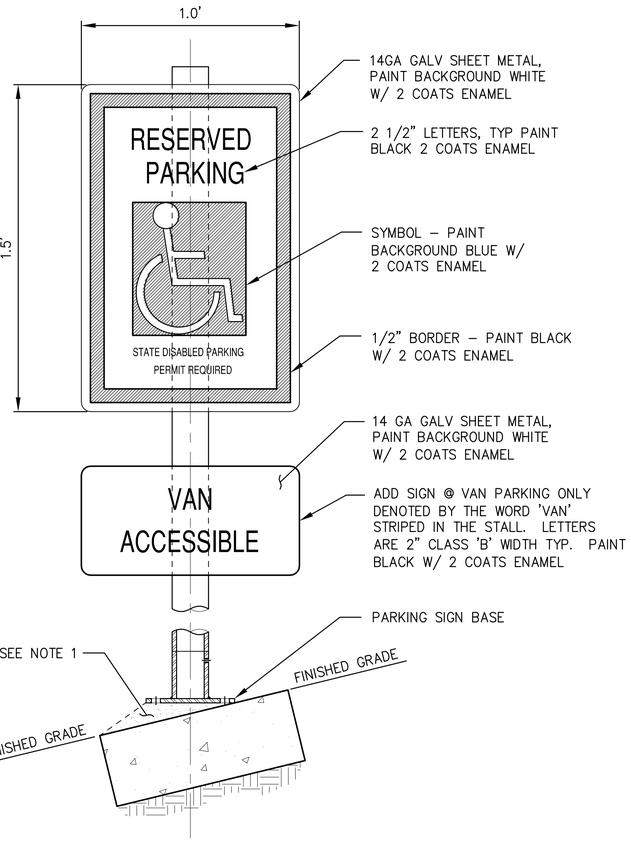
2 WHEEL STOP
C7.5, C7.8 — SCALE: NTS



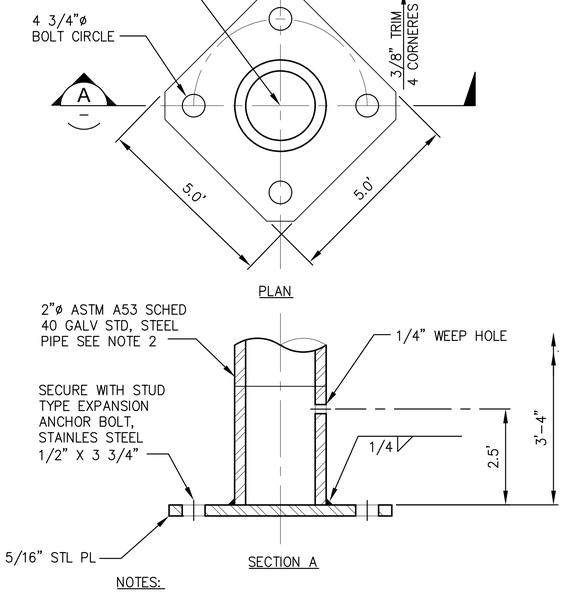
3 ADA PARKING SYMBOL
C7.7 — SCALE: 1" = 1'



4 ACCESS AISLE STRIPING
C7.7 — SCALE: 1" = 4'



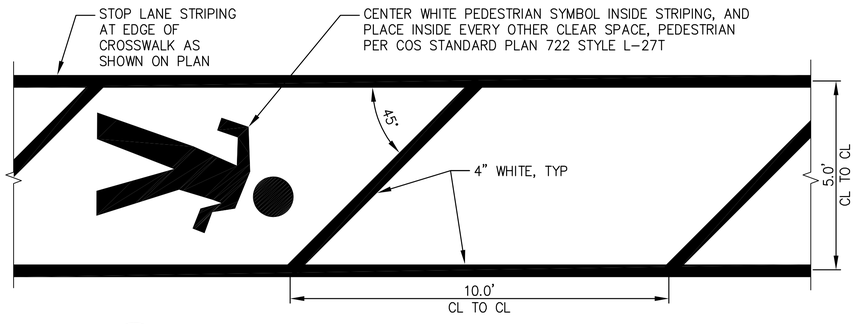
5 ACCESSIBLE PARKING SIGN
C7.7 — SCALE: NTS



NOTES:

1. FOR UN–LEVEL SURFACES, INSERT WASHERS AS SPACERS BETWEEN PLATE AND CONCRETE GROUT ALL SPACE AS SHOWN.
2. PRIME WITH EPOXY ZINC PHOSPHATE PRIMER. PAINT WITH TWO (2) COATS OF POLY URETHANE PAINT, ALUMINUM COLOR.

6 PARKING SIGN BASE
– — SCALE: NTS



7 PIER CROSSWALK
C7.2 — SCALE: 1" = 2'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535563841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
CHECKED BY	DATE	PRINTED BY: smillett Jul 17, 2018	
		PORT ADDRESS:ONE SITCUM PLAZA	
		TACOMA, WA 98401–1837	

PIER 4 PHASE 2 RECONFIGURATION
STRIPING AND FENCING DETAILS - SHEET 4

CONT/CONS:	0701136	TOWNSHIP:		RANGE:		SECTION:	
M. ID:	091251	DAT–HRZ:	WA83–SF	VERT:	MLLW 19.39' @ Tide	22	1933
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:	AS NOTED		

6552 C7.8 SH 118 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: M:\2014\114096 POT Pier 4 Reconfiguration\Drawings\Current Civil As-Built\091251-C7.4-C7.7-C7.8 (Striping and Fencing Details & Substation Plan)

BINDING EDGE

BINDING EDGE

ONE-LINE DIAGRAM

- FUSE
- GROUND
- TRANSFORMER, SECONDARY VOLTAGE. PHASE AND RATING AS INDICATED
- 400 — CIRCUIT BREAKER, TRIP SHOWN, 3 POLE UNLESS OTHERWISE NOTED
- 600 400 — FUSED SWITCH, SWITCH AND FUSE CURRENT RATING AS INDICATED, 3 POLE UNLESS OTHERWISE NOTED
- 400 — SWITCH, CURRENT RATING AS INDICATED, 3 POLE UNLESS OTHERWISE NOTED
- (M) — REVENUE GRADE METER AND ENCLOSURE
- 1200AF 200AT 52 — DRAW-OUT TYPE AC CIRCUIT BREAKER 1200 = FRAME SIZE 200 = TRIP SIZE
- (A) — AMMETER
- (GC) — GROUND CURRENT
- (V) — VOLTMETER
- (50) — INSTANTANEOUS OVERCURRENT RELAY
- (50G) — INSTANTANEOUS OVERCURRENT GROUND RELAY
- (51) — AC INVERSE TIME OVERCURRENT RELAY
- (51G) — INVERSE TIME OVERCURRENT GROUND RELAY
- (86) — LOCKOUT RELAY
- 3 — POTENTIAL TRANSFORMER 3 = QUANTITY
- 200:5 / 3 — CURRENT TRANSFORMER 3 = QUANTITY 200:5 = CT RATIO
- CRANE RECEPTACLE, 480V, 200A
- COMBINATION MOTOR STARTER
- 200 CB — ENCLOSED CIRCUIT BREAKER. 200 = AMP RATING
- SPD — SURGE PROTECTION DEVICE

POWER

- GROUND ROD
- JUNCTION BOX
- DUPLEX RECEPTACLE
- EQUIPMENT CONNECTION
- COMBINATION MOTOR STARTER
- P — PULLBOX
- GROUND ROD IN TEST WELL
- WOOD UTILITY POLE

LIGHTING

- HIGH MAST LIGHTING POLE WITH MULTIPLE FIXTURES

CONDUIT AND RACEWAY

- BP — UNDERGROUND PVC OR GRS CONDUIT, AND CONDUCTORS. AC = ABOVE GROUND COMM AP = ABOVE GROUND POWER BP = BURIED POWER G = BURIED GROUNDING T = BURIED COMM
- BFO — BURIED FIBER OPTIC
- BL — BURIED LIGHTING
- AP — ABOVE GROUND POWER
- CONDUIT CONTINUED
- FLEX CONDUIT
- AP / BP / T — HEAVY LINE INDICATES ELECTRICAL OR COMMUNICATIONS CONDUITS/DUCTBANK AND WIRING/CABLES TO BE REMOVED. REFER TO KEY NOTES.

DRAWING CONVENTIONS

- X / E1 — DETAIL / NTS — DETAIL/SECTION TITLE UNDERLINE, E1 = SHEET WHERE SHOWN
- A / E1 — A = DETAIL NUMBER E1 = SHEET WHERE SHOWN
- 1 / E1 — 1 = DETAIL NUMBER E1 = SHEET WHERE SHOWN
- PROJECT NORTH — NORTH ARROW
- 3 — KEY NOTE
- 2 — FOR INFORMATION ONLY NOTE
- 1 — REVISION REFERENCE
- XXX / FTP-1 = FTP 1 — EQUIPMENT ID TAG – SEE SCHEDULE REFERENCED ON EQUIPMENT AND MECHANICAL DWGS (EQ.XX, MX.X, PX.X) COORDINATE EQUIPMENT LOCATION WITH ASSOCIATED MECHANICAL AND EQUIPMENT PLANS.
- HATCHING INDICATES WIRING/CABLES TO BE REMOVED AND CONDUITS/DUCTBANKS TO BE ABANDONED. REFER TO KEY NOTES.
- SL58, WIFIP15 — CONDUIT DESIGNATIONS

ABBREVIATIONS

A	AMMETER, AMPERE
AF	AMP FUSE, AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ANN	ANNUNCIATOR
AS	AMP SWITCH
ASYM	ASYMMETRICAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BF	BALLAST FACTOR
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
℄	CENTER LINE
CLF	CURRENT LIMITING FUSE
CLR	CLEAR
CM	CIRCULAR MILS
C.O.	CONDUIT ONLY
COMM	COMMUNICATIONS
CONC	CONCRETE
CONT	CONTINUED
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CU	COPPER
DDC	DEDICATED DIALER CIRCUIT
DEM	DEMAND
DEMO	DEMOLITION
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
E	EMPTY, EXISTING
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION, ELEVATOR
EMT	ELECTRICAL METALLIC EMT TUBING
EXIST	EXISTING
F	FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
F,FU	FUSE
FLUOR	FLUORESCENT FLUOR
FO	FIBER OPTIC
FSA	FIRE SYSTEM ANUNCIATOR
FT	FOOT
FVNR	FULL VOLTAGE NON-REVERSING
G,GRD	GROUND
GA	GAUGE
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
GO	GANG OPERATED
GRC,GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HWH	HOT WATER HEATER
IC	INTERRUPTING CAPACITY
J-BOX	JUNCTION BOX
K	KEY OPERATOR
KCM	THOUSAND CIRCULAR MILS
KV	KILOVOLT(S)
KVA	KILOVOLT AMPERE(S)
KVAR	KILOVAR(S)
KVARH	KILOVARHOURS
KW	KILOWATT(S)
KWHR	KILOWATTHOURS
LC	LIGHTING CONTACTOR
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
M	MAGNETIC COIL
MCC	MOTOR CONTROL CENTER
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MM	MULTI-MODE
MOV	METAL OXIDE VARISTOR
MPZ	MINI POWER ZONE
MTG	MOUNTING
MV	MEDIUM VOLTAGE
N	NEUTRAL, NEW
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NO	NORMALLY OPEN, NUMBER
NP	NAMEPLATE
NREC	NON-RESIDENTIAL ENERGY CODE
ø	PHASE, DIAMETER
P	PANEL, POLE
PB	PUSH-BUTTON
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PMH	MODEL OF S&C SWITCHGEAR
PNL	PANEL
POMB	POSITION ORIENTED MOGUL BASE (SOCKET)
PS	PRESSURE SWITCH
PSE	PUGET SOUND ENERGY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
R	RELAY, RADIUS
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SHT	SHEET
SIM	SIMILAR
SM	SINGLE-MODE
SUB	SUBSTATION
SUPV	SUPERVISOR
SW	SWITCH
SYM	SYMMETRICAL
T	THERMOSTAT
TB	TERMINAL BLOCK, TRANSFORMER BANK
TEL	TELEPHONE
THRU	THROUGH
TP	TACOMA POWER
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPESSOR
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTMETER, VOLT
W	WIRE, WATT
W/	WITH
WHD	WATTHOUR DEMAND METER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL WIRING IN VAULTS, PULLBOXES, ETC. WITHIN AREA OF DEMOLITION TO VERIFY IT IS DE-ENERGIZED PRIOR TO PROCEEDING WITH ANY DEMOLITION WORK.
2. SEE GENERAL NOTES ON SHEET G3.2.
3. REFER TO CIVIL/STRUCTURAL DEMOLITION DRAWINGS, D SERIES, FOR DEMOLITION OF EXISTING UTILITIES. SEE CIVIL DRAWINGS, C5 AND C6 SERIES, FOR NEW UTILITIES.
4. CONTRACTOR SHALL NOT DISCONNECT POWER TO EXISTING LIGHTING FIXTURES ON HIGH MAST POLES UNTIL TEMPORARY LIGHTING INSTALLATION INDICATED ON SHEET E3.10 IS ENERGIZED. WHEN EXISTING LIGHTING POLES ARE RELOCATED AND RECONNECTED, REMOVE TEMPORARY LIGHTING INSTALLATION.

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5222
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:	CHECKED BY	DATE

DIRECTOR_ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY: angel Jun 28, 2018			
PORT ADDRESS:ONE SITCUM PLAZA		TACOMA, WA 98401-1837	

PIER 4 PHASE 2 RECONFIGURATION
ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

CONT/CONS:	0701.36	TOWNSHIP:		SECTION:	
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PARCEL:	CONFORMED
DRAWING SCALE: AS NOTED					

6552
E1.1
SH 119 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E101

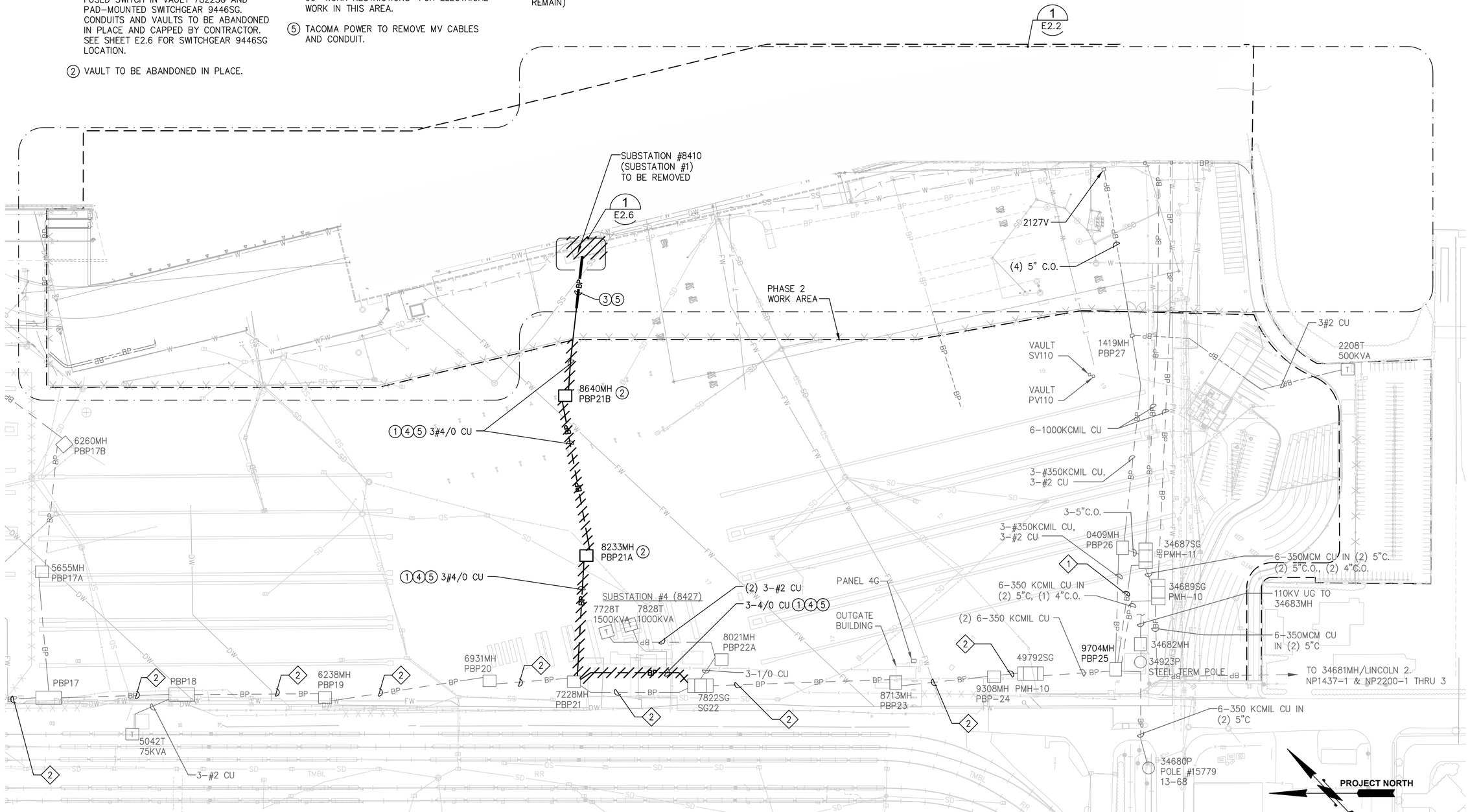
BINDING EDGE

KEY NOTES

1. CONTRACTOR TO COORDINATE WITH TACOMA POWER (SEE SPEC. 26 05 00, 1.07) FOR TACOMA POWER'S DISCONNECTION AND REMOVAL OF THE MEDIUM VOLTAGE CABLES BETWEEN THE FUSED SWITCH IN VAULT 7822SG AND PAD-MOUNTED SWITCHGEAR 9446SG. CONDUITS AND VAULTS TO BE ABANDONED IN PLACE AND CAPPED BY CONTRACTOR. SEE SHEET E2.6 FOR SWITCHGEAR 9446SG LOCATION.
2. VAULT TO BE ABANDONED IN PLACE.
3. CONDUIT TO BE REMOVED BY CONTRACTOR AFTER TACOMA POWER REMOVES THE MV CABLES. CAP CONDUITS.
4. REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.
5. TACOMA POWER TO REMOVE MV CABLES AND CONDUIT.

FOR INFORMATION ONLY NOTES

1. 3-350 KCMIL CU IN 5"C, AND 3-#2 IN 5"C. (EXISTING TO REMAIN)
2. 3-350MCM CU, 3-#1/0 CU (TACOMA POWER LOOP FEEDERS). (EXISTING TO REMAIN)



SCALE: 1"=100'

SITE ELECTRICAL DEMOLITION PLAN

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E201

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
SITE ELECTRICAL DEMOLITION PLAN

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

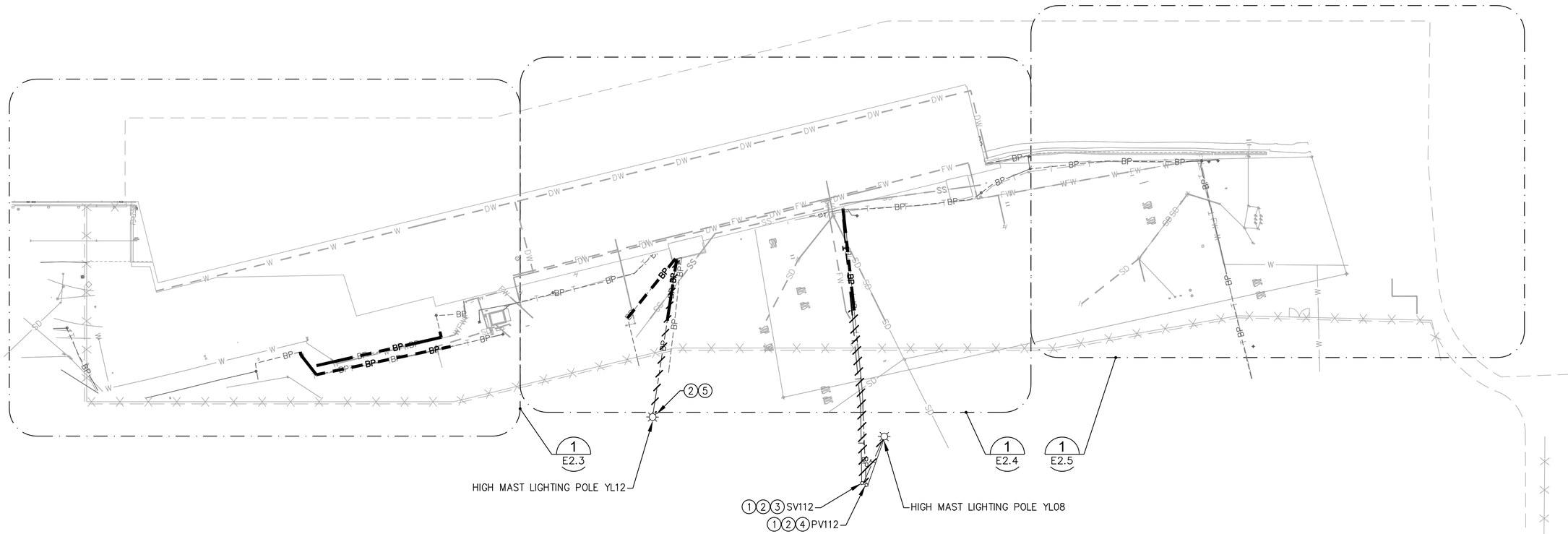
6552
E2.1
SH 120 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

KEY NOTES

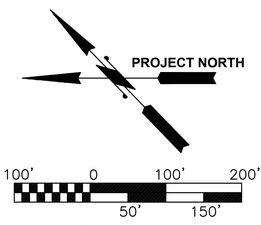
1. SEE KEY NOTE #19 ON SHEET E2.4 REGARDING WIRING TO THIS POLE.
2. REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.
3. SEE KEY NOTES #16 AND #19 ON SHEET E2.4 REGARDING WIRING TO THIS VAULT.
4. SEE KEY NOTE #15 ON SHEET E2.4 REGARDING WIRING TO THIS VAULT.
5. SEE KEY NOTE #17 ON SHEET E2.4 REGARDING WIRING TO THIS POLE.



SITE ELECTRICAL DEMOLITION KEY PLAN

1 / E2.1

SCALE: 1"=100'



SCALE: 1"=100'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_BuiltPhase 2\091251-E202

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

PRINTED BY: angel Jun 28, 2018

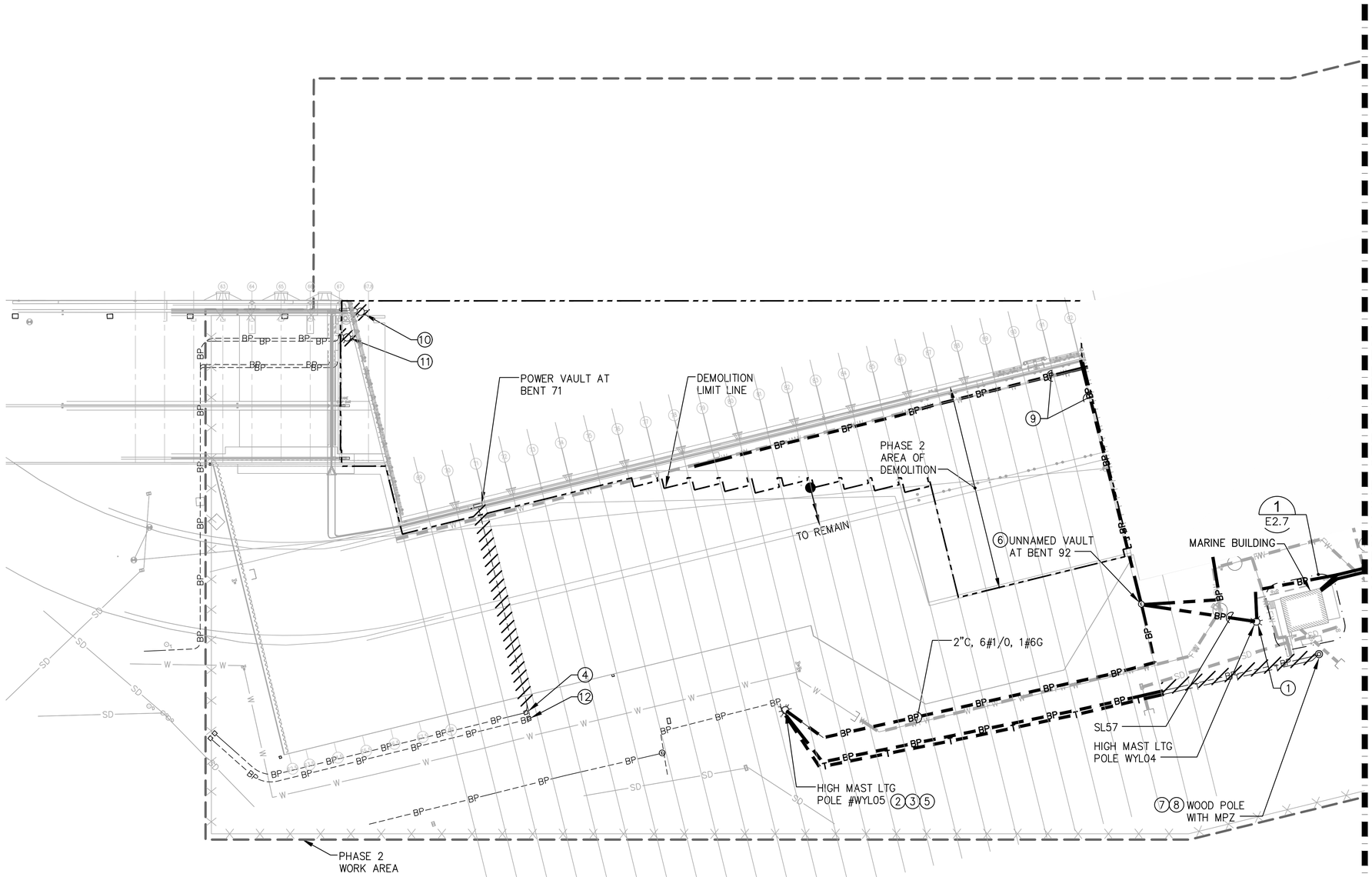
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
SITE ELECTRICAL DEMOLITION KEY PLAN

CONT/CONS:	070136	TOWNSHIP:	
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:		SECTION:	
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

6552
E2.2
SH 121 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



ELECTRICAL DEMOLITION PLAN - SHEET 1

1 / E2.2

SCALE: 1"=40'

KEY NOTES

(11) DISCONNECT LIGHTING CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO CLOSEST VAULT OR J–BOX WHERE THE CIRCUIT NEEDS TO REMAIN IN SERVICE. REMOVE HIGH MAST LIGHTING POLE AND DELIVER TO THE PORT, REMOVE LIGHTING FIXTURES AND STORE FOR REINSTALLATION. SEE SPECIFICATION 26 56 36 FLOOD LIGHTING FIXTURES. REMOVE LIGHT POLE CONCRETE BASE AS REQUIRED TO COORDINATE WITH STRUCTURAL DEMOLITION SHOWN IN DETAIL 1/D3.3 AND SECTION A/D5.1, AND NEW STRUCTURE SHOWN IN DETAIL 2/S5.6. CAP CONDUITS.

(12) DISCONNECT WIRING ROUTED TO 100A RECEPTACLE AND 120V RECEPTACLE IN POWER VAULT AT BENT 71. CUT WIRES IN THIS VAULT AND REMOVE WIRES BETWEEN THIS VAULT AND POWER VAULT AT BENT 71. ABANDON CONDUIT. SHORE POWER RECEPTACLE IS FED FROM SHORE POWER PANEL ADJACENT TO PIER 3 OPERATIONS BUILDING 3 (APPROX 430–FT TO THE NORTH). 120V REC IS FED FROM PANEL ADJACENT TO SHORE POWER PANEL. REFER TO PIER 3 UPGRADE REFERENCE DRAWINGS.



KEYMAP

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. SEE E8 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
3. ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 2 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

KEY NOTES

(1) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE CONDUIT AND WIRING BACK TO VAULT PV106. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE. REMOVE LIGHT POLE AND STORE FOR FUTURE REINSTALLATION. SEE SHEET E2.4 FOR VAULT PV106 LOCATION. SEE SHEET E3.3 FOR NEW LOCATION OF POLE. REFER TO TERMINAL 3 & 4 REDEVELOPMENT REFERENCE DWGS FOR EXISTING POLE BASE DETAILS.

(2) DISCONNECT BRANCH CIRCUIT AT CONTROL CABINET LS5 ON HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO MPZ ON WOOD POLE LOCATED ON THE WEST SIDE OF THE MARINE BUILDING. REMOVE CONDUIT AS INDICATED, ABANDON REMAINING CONDUIT AND CAP THE CONDUIT.

(3) DISCONNECT COMMUNICATIONS CABLES IN CONTROL CABINET LS5 AND REMOVE BACK TO CONTROL CABINET ON WOOD POLE. REMOVE CONDUIT AS INDICATED, ABANDON REMAINING CONDUIT AND CAP THE CONDUIT.

(4) DISCONNECT TELEPHONE CABLE ROUTED TO TELEPHONE TERMINAL CABINET IN POWER VAULT AT BENT 71. CONDUIT TO BE ABANDONED. REMOVE CABLE BACK TO THIS J–BOX AND CAP.

(5) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO HIGH MAST LIGHTING POLE #WYL04. REMOVE CONDUIT AS INDICATED, ABANDON REMAINING CONDUIT AND CAP THE CONDUIT. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE. SEE REFERENCE DWGS FOR EXISTING POLE BASE DETAILS. REMOVE LIGHT POLE AND STORE FOR FUTURE INSTALLATION. SEE SHEET E3.3 FOR NEW LOCATION OF POLE.

(6) REMOVE POWER VAULT, AND ASSOCIATED CONDUITS.

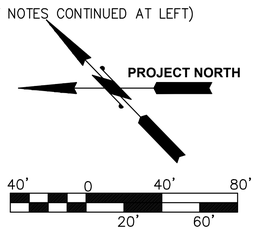
(7) DISCONNECT FEEDER TO MPZ AT WOOD POLE AND REMOVE WIRING BACK TO PANEL 4MB. CUT POLE FLUSH WITH TOP OF CONCRETE BASE AND REMOVE. CUT CONDUITS PRIOR TO UNDERGROUND ELBOW AT POLE BASE AND CAP. SEE REFERENCE DWGS FOR EXISTING POLE BASE DETAILS. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE.

(8) DISCONNECT COMMUNICATIONS CABLES ENTERING CONTROL CABINET FROM UNDERGROUND AND REMOVE BACK TO SOURCE IN MARINE BUILDING. CUT CONDUIT PRIOR TO UNDERGROUND ELBOW AT POLE BASE AND CAP.

(9) REMOVE ABANDONED CONDUITS, WIRES AND CABLES.

(10) SOLAR POWERED NAVIGATION LIGHT TO BE REMOVED AND TURNED OVER TO THE ENGINEER.

(KEY NOTES CONTINUED AT LEFT)



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS – CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401–1837

PIER 4 PHASE 2 RECONFIGURATION

ELECTRICAL DEMOLITION PLAN SHEET 1

6552 **E2.3** SH 122 OF 499

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

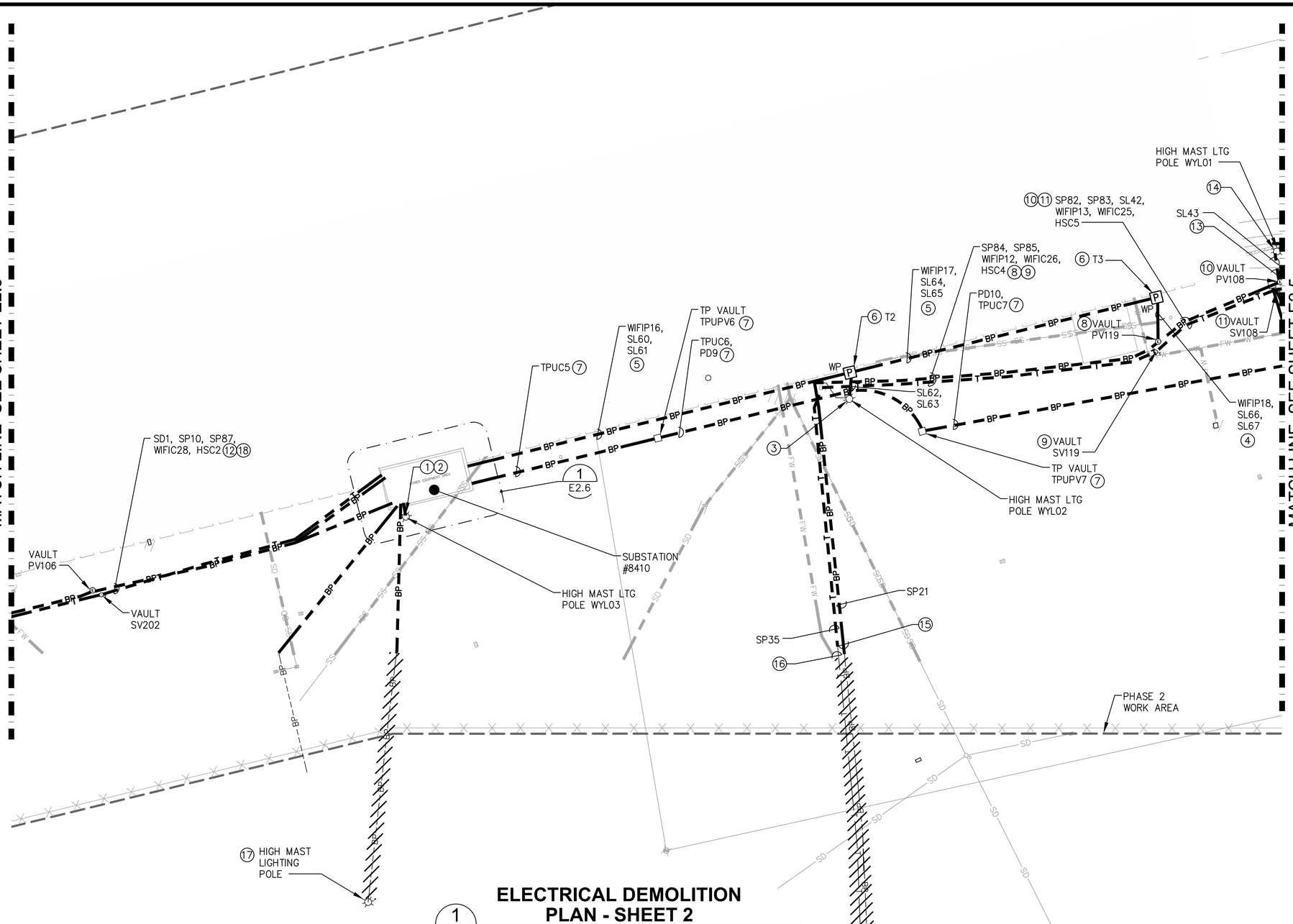
BINDING EDGE

PORT OF TACOMA FILE: R:\6650-041.01\Dwgs\As_Built\Phase 2\091251-E203

BINDING EDGE

MATCH LINE SEE SHEET E2.3

MATCH LINE SEE SHEET E2.5



ELECTRICAL DEMOLITION PLAN - SHEET 2

1 / E2.2 — SCALE: 1"=40'

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. SEE E8 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
3. ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 2 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

KEY NOTES

(17) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO 480V PULLBOX. REMOVE CONDUIT AS INDICATED AND CAP FOR FUTURE EXTENSION. SEE SHEET E2.6 FOR PULLBOX LOCATION. SEE SHEET E3.4 FOR NEW WIRING TO THIS POLE.

(18) REMOVE ASSOCIATED WIRING, VAULT AND DUCTBANK.

(19) REMOVE CABLES BETWEEN VAULT SV112 AND CONTROL CABINET LS6. CONDUIT TO REMAIN.

KEY NOTES

(1) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO LIGHTING CONTROL PANEL. REMOVE LIGHT POLE AND STORE FOR FUTURE REINSTALLATION. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE, AND REMOVE CONDUITS. SEE SHEET E3.3 FOR NEW LOCATION OF POLE. SEE SHEET E2.6 FOR LOCATION OF LIGHTING CONTROL PANEL. REFER TO TERMINAL 3 & 4 REDEVELOPMENT REFERENCE DWGS FOR EXISTING POLE BASE DETAILS.

(2) DISCONNECT BRANCH CIRCUIT AT CONTROL CABINET LS12 ON HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO PANEL 2WA. SEE SHEET E2.6 FOR LOCATION OF PANEL 2WA. REMOVE CONDUITS.

(3) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE #WYL02 AND REMOVE WIRING BACK TO PULLBOX T2. REMOVE LIGHT POLE AND STORE FOR FUTURE REINSTALLATION. SEE SHEET E3.4 FOR NEW LOCATION OF POLE. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE AND REMOVE CONDUITS. REFER TO TERMINAL 3 & 4 REDEVELOPMENT REFERENCE DWGS FOR EXISTING POLE BASE DETAILS.

(4) CUT WIRES IN VAULT PV119 AND REMOVE BACK TO PULLBOX T3. ABANDON CONDUIT AND CAP CONDUITS.

(5) REMOVE CONDUIT AND WIRE.

(6) REMOVE PULLBOX AND PULLBOX SUPPORTS.

(7) REMOVE DUCTBANK AND VAULTS.

(8) REMOVE DUCTBANK AND ASSOCIATED WIRES, AND VAULT PV119.

(9) CUT COMMUNICATIONS CABLES IN VAULT SV119. REMOVE CABLES, DUCTBANK, AND VAULT.

(10) REMOVE DUCTBANK AND ASSOCIATED WIRES AND VAULT PV108.

(11) CUT COMMUNICATION CABLES IN VAULT SV108. REMOVE CABLES, DUCTBANK, AND VAULT.

(12) REMOVE ASSOCIATED CABLES, VAULT AND DUCTBANK.

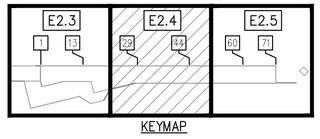
(13) REMOVE 3#6, 1#6G FROM CONTROL CABINET ON POLE #WYL01 TO VAULT PV108. REMOVE DUCTBANK.

(14) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO VAULT PV108. REMOVE LIGHT POLE AND STORE FOR FUTURE REINSTALLATION. SEE SHEET E3.4 FOR NEW LOCATION OF POLE. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE AND REMOVE CONDUITS.

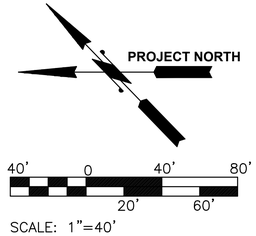
(15) REMOVE WIRING BACK TO VAULT PV112. REMOVE DUCTBANK AS INDICATED AND CAP CONDUITS FOR FUTURE EXTENSION. SEE KEY NOTE #22 ON SHEET E3.4 FOR EXTENDING EXISTING DUCTBANK TO NEW VAULT.

(16) CUT COMMUNICATION CABLES IN VAULT SV112 AND REMOVE CABLES ROUTED EASTWARD. REMOVE DUCTBANK AS INDICATED AND CAP CONDUITS FOR FUTURE EXTENSION. SEE KEY NOTE #2 ON SHEET E3.4 FOR EXTENDING EXISTING DUCTBANK TO NEW VAULT SV212.

(KEY NOTES CONTINUED AT LEFT)



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

ELECTRICAL DEMOLITION PLAN SHEET 2

TOWNSHIP:		RANGE:	SECTION:
DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:		DRAWING SCALE:	AS NOTED

6552

E2.4

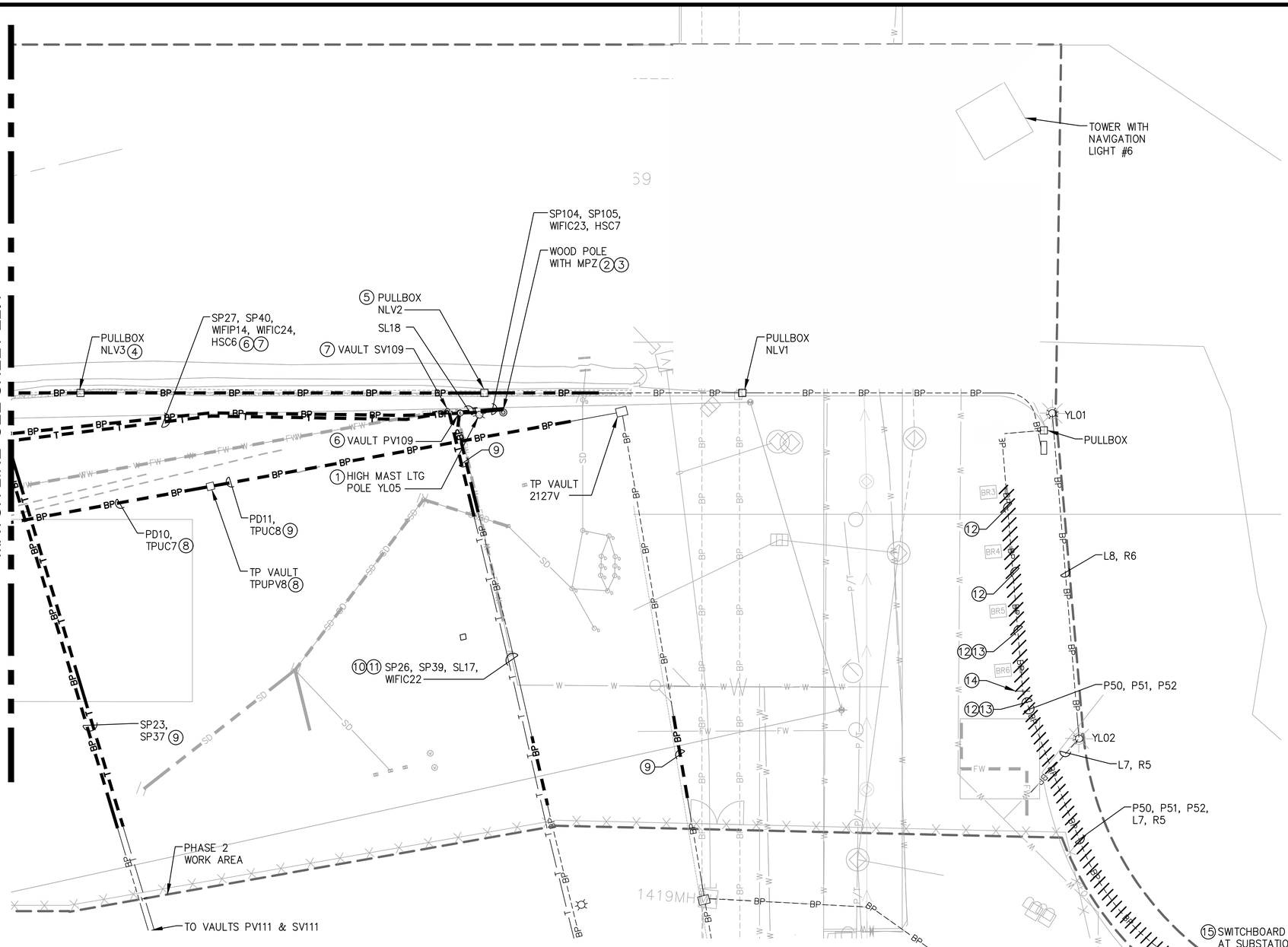
SH 123 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E204

BINDING EDGE



GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. SEE E8 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
3. ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 2 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

KEY NOTES

(1) DISCONNECT LIGHTING BRANCH CIRCUITS AT HIGH MAST LIGHTING POLE AND REMOVE WIRING BACK TO ADJACENT VAULT. THIS LIGHTING POLE IS SERVED FROM PANEL 4G LOCATED ADJACENT TO OUTGATE BUILDING. SEE SHEET E2.1 FOR LOCATION OF OUTGATE BUILDING. REMOVE LIGHT POLE AND STORE FOR FUTURE REINSTALLATION. SEE SHEET E3.4 FOR NEW LOCATION OF POLE. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE AND REMOVE CONDUITS. REFER TO TERMINAL 3 & 4 REDEVELOPMENT REFERENCE DWGS FOR EXISTING POLE BASE DETAILS.

(2) DISCONNECT FEEDER TO MPZ AT WOOD POLE AND REMOVE WIRING BACK TO VAULT PV109. CUT POLE FLUSH WITH TOP OF CONCRETE BASE AND REMOVE POLE. REMOVE CONCRETE POLE BASE DOWN TO 4–FEET BELOW GRADE AND REMOVE CONDUITS. REFER TO TERMINAL 3 & 4 REDEVELOPMENT REFERENCE DWGS FOR EXISTING POLE BASE DETAILS.

(3) DISCONNECT COMMUNICATIONS CABLES ENTERING CONTROL CABINET FROM UNDERGROUND, AND REMOVE CABLES BACK TO VAULT SV109. REMOVE CONDUITS.

(4) REMOVE PULLBOX NLV3 (2'x2'x2') AND UNDERGROUND CONDUIT ROUTED SOUTH TO PULLBOX NLV2.

(5) REMOVE PULLBOX NLV2 (2'x2'x2') AND CONDUIT AS INDICATED.

(6) REMOVE DUCTBANK AND ASSOCAITED WIRING, AND VAULT PV109.

(7) CUT COMMUNICATIONS CABLES IN VAULT SV109. REMOVE CABLES, DUCTBANK AND VAULT.

(8) REMOVE DUCTBANK AND VAULT TPUPV8.

(9) REMOVE DUCTBANK AS INDICATED AND ABANDON REMAINING DUCTBANK AND CAP CONDUITS.

(10) REMOVE LIGHTING BRANCH CIRCUITS BACK TO VAULT PV110. CIRCUITS SERVED FROM PANEL 4G LOCATED ADJACENT TO OUTGATE BUILDING. SEE SHEET E2.1 FOR LOCATION OF OUTGATE BUILDING AND VAULT PV110. REMOVE DUCTBANK AS INDICATED AND ABANDON REMAINING DUCTBANK AND CAP CONDUITS.

(11) REMOVE COMMUNICATIONS CABLES BACK TO MAIN COMM. ROOM IN HUSKY ADMIN. BUILDING. SEE SHEET E3.5 FOR NEW COMM. CABLES IN THIS DUCTBANK. DUCTBANK CONTAINS (1) 50–PR. COPPER CABLE, (1) 12–FIBER FO CABLE, (3) 6–FIBER FO CABLES.

(12) DISCONNECT AND REMOVE THE FEEDER BETWEEN REEFER BUNKERS #BR3 AND #BR4. DISCONNECT THE FEEDER TO REEFER BUNKER #BR4 AT SWITCHBOARD #1 AND REMOVE THE FEEDER TO BUNKER #BR4. REMOVE THE REEFER BUNKERS. SEE KEY NOTE #14 REGARDING REMOVAL OF CONDUITS.

(KEY NOTES CONTINUED AT LEFT)

KEY NOTES (CONTINUED)

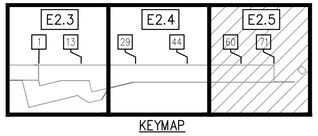
(13) DISCONNECT AND REMOVE THE FEEDER BETWEEN REEFER BUNKERS #BR5 AND #BR6. DISCONNECT THE FEEDER TO REEFER BUNKER #BR6 AT SWITCHBOARD #1 AND REMOVE THE FEEDER TO BUNKER #BR6. REMOVE THE REEFER BUNKERS. SEE KEY NOTE #14 REGARDING REMOVAL OF CONDUITS.

(14) CUT (3) 2–1/2" CONDUITS AT THIS LOCATION AND CAP THE CONDUITS FOR FUTURE USE. SEE SHEET E3.5 FOR EXTENDING CONDUITS TO NEW MARINE OPS BUILDING. CONDUITS SERVED REEFER BUNKERS #BR2, #BR3, #BR4, #BR5 AND #BR6.

(15) REPLACE NAMEPLATES AT SWITCHBOARD #1 WITH TEMPORARY LABLE TO CHANGE BREAKERS FOR REEFER BUNKERS #BR3/#BR4 AND #BR5/#BR6 TO INDICATE BREAKERS ARE SPARE.

1 E2.2 ELECTRICAL DEMOLITION PLAN - SHEET 3

SCALE: 1"=40'



KEYMAP

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
1600 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY: angel Jun 28, 2018		PROJ. ENGR	DATE
PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837		DRAWING SCALE: AS NOTED	

PIER 4 PHASE 2 RECONFIGURATION
ELECTRICAL DEMOLITION PLAN
SHEET 3

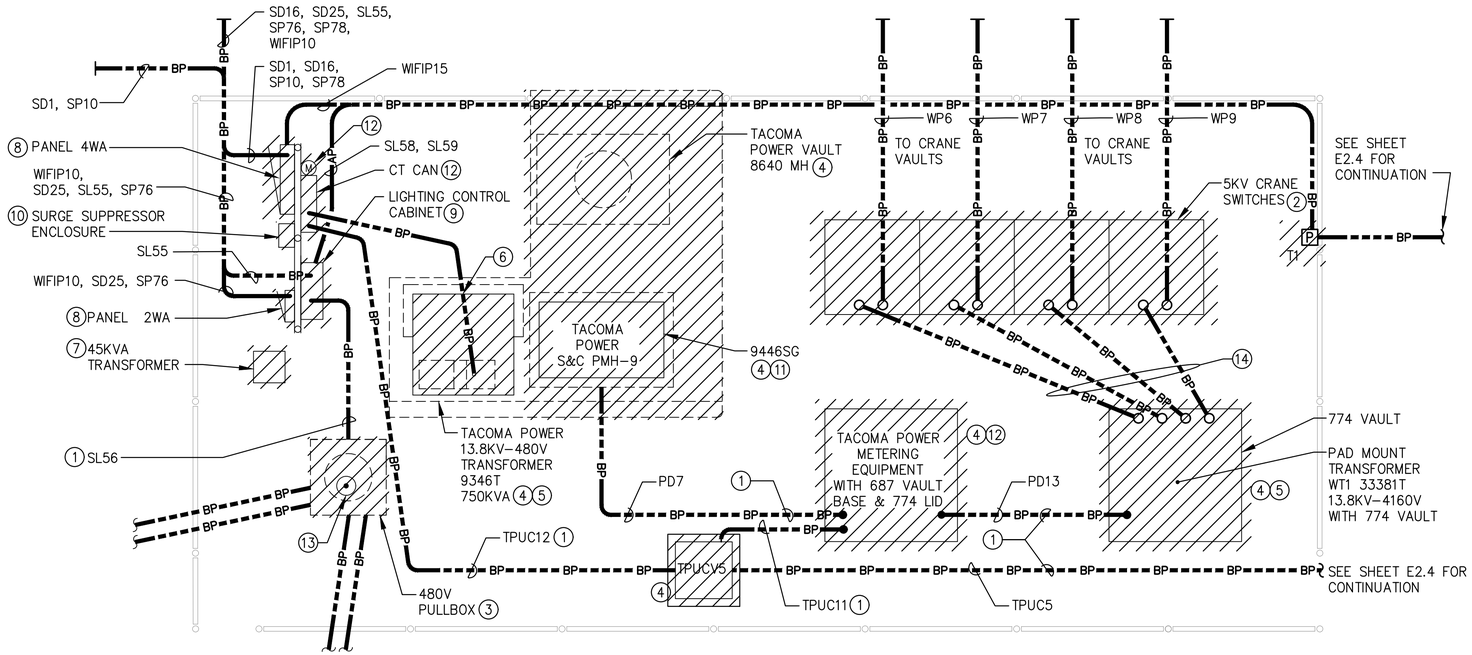
SECTION:	
RANGE:	MLLW 19.39' @ Tide 22 1933
TOWNSHIP:	DAT–HRZ: WA83–SF
VERT:	
PARCEL:	

6552 E2.5 SH 124 OF 499

CONT/CONS:	0701136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E205



ENLARGED ELECTRICAL DEMOLITION PLAN - SUBSTATION #8410

1 E2.1 1 E2.4

NO SCALE

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. SEE E8 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
3. ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 2 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

KEY NOTES

(1) TACOMA POWER TO REMOVE CABLES, CONTRACTOR TO REMOVE DUCTBANK.

(2) CONTRACTOR TO REMOVE 5KV CRANE SWITCHES.

(3) CONTRACTOR TO CUT BRANCH CIRCUITS IN PULLBOX. REMOVE PULLBOX.

(4) CONTRACTOR TO REMOVE VAULT.

(5) TACOMA POWER TO DISCONNECT POWER TO PAD-MOUNTED TRANSFORMER AND REMOVE TRANSFORMER.

(6) CONTRACTOR TO DISCONNECT FEEDER TO PANEL 4WA. REMOVE WIRING AND DUCTBANK.

(7) CONTRACTOR TO DISCONNECT FEEDER TO 45KVA TRANSFORMER AND REMOVE BACK TO PANEL 4WA. DISCONNECT FEEDER FROM TRANSFORMER TO PANEL 2WA AND REMOVE. REMOVE TRANSFORMER.

(8) CONTRACTOR TO DISCONNECT BRANCH CIRCUITS AT PANELBOARD AND REMOVE PANELBOARD AND MOUNTING HARDWARE.

(9) CONTRACTOR TO DISCONNECT LIGHTING BRANCH CIRCUITS FROM LIGHTING CONTACTORS AND REMOVE LIGHTING CONTROL CABINET.

(10) CONTRACTOR TO DISCONNECT AND REMOVE SURGE SUPPRESSION DEVICE, WIRING AND ENCLOSURE.

(11) CONTRACTOR TO COORDINATE WITH TACOMA POWER FOR TACOMA POWER'S DISCONNECTION OF SERVICE FEEDER TO PMH-9 SWITCHES. TACOMA POWER TO REMOVE SWITCH ENCLOSURE.

(12) CONTRACTOR TO COORDINATE WITH TACOMA POWER FOR TACOMA POWER'S DISCONNECTION AND REMOVAL OF WIRING TO METERING EQUIPMENT. TACOMA POWER TO REMOVE METERING EQUIPMENT.

(13) CONTRACTOR TO REMOVE GROUND ROD AND ASSOCIATED WIRING.

(14) CONTRACTOR TO REMOVE CABLES AND DUCTBANK.

PROJECT NORTH

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E206

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

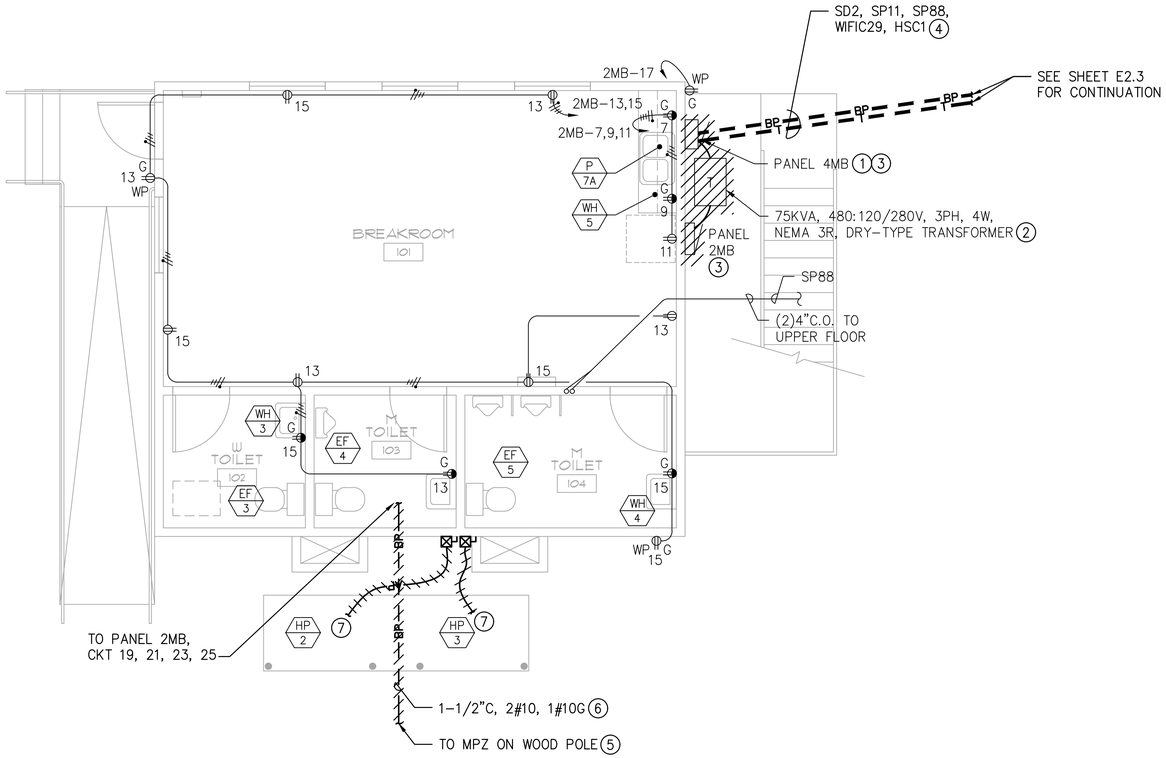
PRINTED BY: angel Jun 28, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
ENLARGED ELECTRICAL DEMOLITION PLAN
SUBSTATION #8410

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
E2.6
SH 125 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



ENLARGED ELECTRICAL DEMOLITION PLAN - MARINE BUILDING T4

1 / E2.3

SCALE: 1/4"=1'-0"

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. SEE E8 SERIES SHEETS FOR CONDUIT AND WIRE SCHEDULES FOR SPECIFIC INFORMATION PERTAINING TO EACH CONDUIT.
3. ALL CONDUITS/DUCTBANKS WITHIN THE PHASE 2 WORK AREA THAT ARE NOT INDICATED TO BE DISCONNECTED OR REMOVED ARE TO REMAIN IN SERVICE AND PROTECTED IN PLACE.

KEY NOTES

(1) DISCONNECT FEEDER AT PANEL 4MB AND AT PANEL 4WA AND REMOVE BACK FROM PANEL 4MB TO VAULT PV106. CONDUITS TO BE REMOVED. SEE SHEET E2.6 FOR PANEL 4WA LOCATION AND SHEET E2.4 FOR VAULT PV106 LOCATION.

(2) DISCONNECT FEEDER TO 75KVA TRANSFORMER AND REMOVE BACK TO PANEL 4MB. DISCONNECT FEEDER FROM TRANSFORMER TO PANEL 2MB AND REMOVE. REMOVE TRANSFORMER.

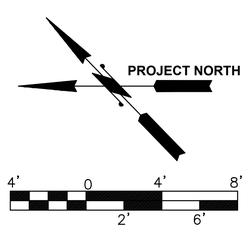
(3) DISCONNECT BRANCH CIRCUITS AT PANELBOARD, AND REMOVE PANELBOARD AND MOUNTING HARDWARE.

(4) REMOVE ASSOCIATED CABLES AND DUCTBANK.

(5) SEE SHEET E2.3 FOR WOOD POLE LOCATION.

(6) CUT ABANDONED CONDUIT AT WOOD POLE AND AT PANEL 4MB FLUSH WITH GRADE AND CAP.

(7) DISCONNECT WIRING AT DISCONNECT SWITCH FOR SERVICE TO EXTERIOR MECHANICAL EQUIPMENT. REMOVE CONDUIT AND WIRE.



SCALE: 1"=4'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

ENLARGED ELECTRICAL DEMOLITION PLAN MARINE BUILDING

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION:			

6552

E2.7

SH 126 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E207

BINDING EDGE

FOR INFORMATION ONLY NOTES

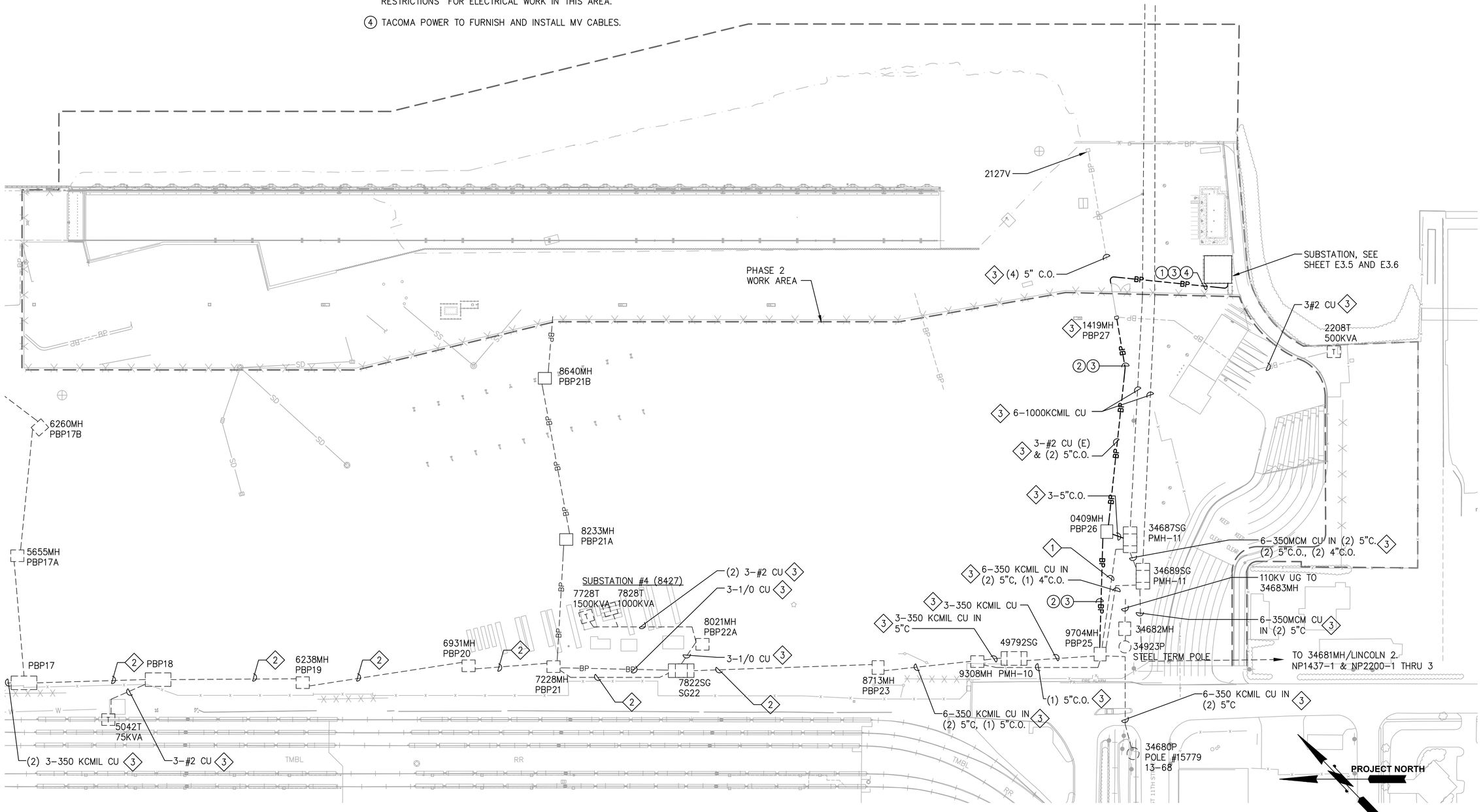
1. 3–350 KCMIL CU, 3–#2 CU. (EXISTING TO REMAIN)
2. 3–350MCM CU, 3–#1/0 CU (TACOMA POWER LOOP FEEDERS). (EXISTING TO REMAIN)
3. EXISTING TO REMAIN.

KEY NOTES

1. TACOMA POWER APPROVED ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL (4) 5"C.
2. MV CABLES FURNISHED AND INSTALLED BY TACOMA POWER IN EXISTING 5" CONDUIT.
3. REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.
4. TACOMA POWER TO FURNISH AND INSTALL MV CABLES.

GENERAL NOTES

1. ELECTRICAL UTILITY INFRASTRUCTURE SHOWN IS BASED ON HISTORICAL DOCUMENTS AND HAS NOT BEEN FIELD VERIFIED.



SITE ELECTRICAL PLAN

SCALE: 1"=100'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E301

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837

PIER 4 PHASE 2 RECONFIGURATION

SITE ELECTRICAL PLAN

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
E3.1
SH 127 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

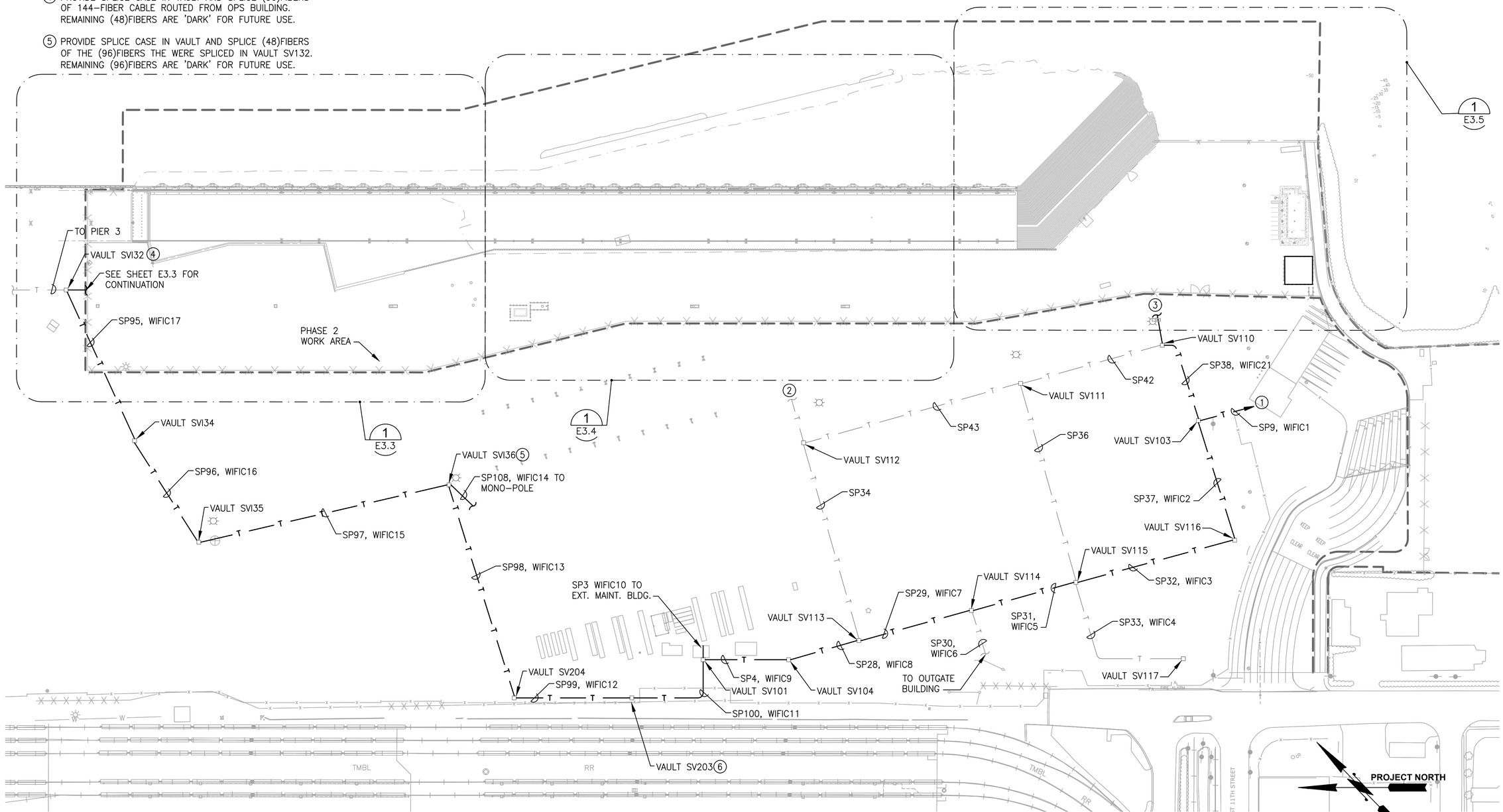
BINDING EDGE

KEY NOTES

1. TO MAIN COMM. ROOM IN HUSKY ADMIN. BUILDING.
2. SEE SHEET E3.4 FOR CONTINUATION.
3. SEE SHEET E3.5 FOR CONTINUATION.
4. PROVIDE SPLICE CASE IN VAULT AND SPLICE (96)FIBERS OF 144–FIBER CABLE ROUTED FROM OPS BUILDING. REMAINING (48)FIBERS ARE 'DARK' FOR FUTURE USE.
5. PROVIDE SPLICE CASE IN VAULT AND SPLICE (48)FIBERS OF THE (96)FIBERS THE WERE SPLICED IN VAULT SV132. REMAINING (96)FIBERS ARE 'DARK' FOR FUTURE USE.
6. PROVIDE SPLICE CASE IN VAULT AND SPLICE (24)FIBERS THAT WERE SPLICED IN VAULTS SV132 AND SV136. REMAINING (120)FIBERS ARE 'DARK' FOR FUTURE USE.

GENERAL NOTES

1. REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK ON THIS DRAWING.
2. SEE SHEET E8.3 FOR WIFIC SERIES FOR PROVIDING COMM CABLES IN THESE EXISTING DUCTBANKS.



SITE ELECTRICAL KEY PLAN

SCALE: 1"=100'

SCALE: 1"=100'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E302

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PIER 4 PHASE 2 RECONFIGURATION
SITE ELECTRICAL KEY PLAN

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PROJ. ENGR	DATE
angel	Jun 28, 2018

PRINTED BY:
SECTION:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

6552
E3.2
SH 128 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

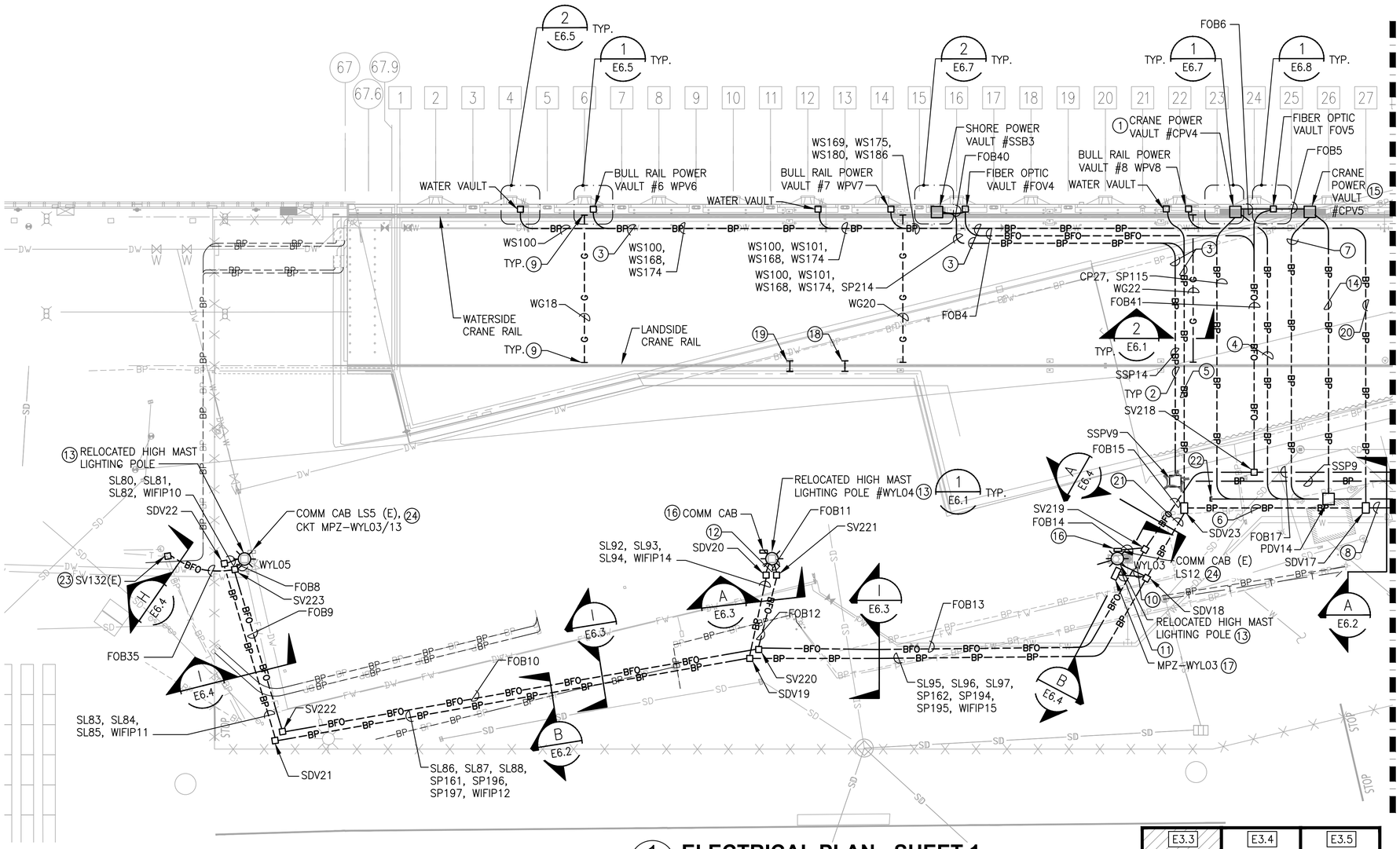
BINDING EDGE

GENERAL NOTES

1. ALL ELECTRICAL CONNECTIONS IN BULLRAIL VAULTS TO USE NO-OX CORROSION INHIBITING LUBRICANT, OR APPROVED EQUAL.
2. REFER TO CIVIL DRAWINGS FOR DUCTBANK PLAN AND PROFILE INFORMATION.
3. SEE SHEETS E6.9 AND E6.10 FOR ROUTING CONDUITS IN UTILITY TRENCHES AT BULLRAIL.

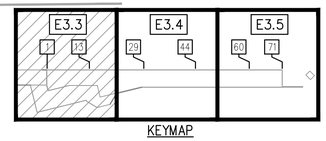
KEY NOTES

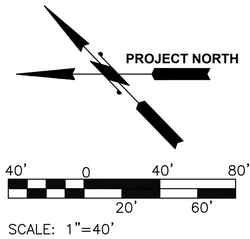
1. CRANE POWER VAULT TO SUPPLY CRANES #1, #2.
2. CONDUITS TO BE RUN IN PILE CAP PER DETAILS ON SHEETS E6.22, E6.23.
3. CONDUITS TO BE RUN IN UTILITY TRENCH. SEE SHEETS E6.9, E6.10.
4. CP30, SP118
5. WS138, WS176, WS197, SP217
6. SD62, SL101, SL102, SL103, SP163, SP192, SP193
7. CP33, SP121
8. SD63, SL104, SL105, SL106, SP164, SP190, SP191, SP213, WS170, WS181, WS192
9. GROUND WIRE CONNECTION AT CRANE RAILS TO BE EXOTHERMIC WELD. SEE STRUCTURAL SHEETS FOR CRANE RAIL DETAILS.
10. SL98, SL99, SL100
11. SD61, SP182, SP183, WS104, WS178, WS199, WIFIP16
12. SL89, SL90, SL91, WIFIP13
13. SEE SPECIFICATION 26 56 36 FLOOD LIGHTING FIXTURES FOR QUANTITY OF LIGHTING FIXTURES EXISTING ON THE POLE AND QUANTITY OF FIXTURES REQUIRED AT POLE. SEE SHEET S45.1 FOR LIGHTING POLE BASE DETAIL.
14. CP36, SP124
15. CRANE POWER VAULT TO SUPPLY CRANES #3, #4.
16. PROVIDE COMMUNICATIONS CABINET, 36"Hx30"Wx8"D, 316L STAINLESS STEEL, WITH PAINTED STEEL PANEL, GASKETING, CONTINUOUS HINGE ON DOOR AND STAINLESS STEEL DOOR CLAMPS. CONNECT TO CIRCUIT MPZ-WYL03/15. MOUNT CABINET AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED. PROVIDE CORNING TYPE SPH, WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL, MOUNTED IN CABINET.
17. PROVIDE 3/4"C, 2#12, #12G FROM MPZ TO ADJACENT COMM CABINET AND CONNECT TO DUPLEX RECEPTACLE IN CABINET. CONNECT TO CIRCUIT MPZ-WYL03/17. PROVIDE GROUND ROD IN GROUND WELL ADJACENT TO POLE AND CONNECT TO MPZ WITH 1"C, 1#6G. MOUNT MPZ AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH THE VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED.
18. 3/4"C, 1#4G FROM CRANE RAILS TO CRANE PIN SOCKETS, TYPICAL. SEE SHEET S3.1 FOR PIN SOCKET LOCATIONS.
19. 3/4"C, 1#4G FROM CRANE RAILS TO CRANE TIE DOWNS, TYPICAL. SEE SHEET S3.1 FOR TIE DOWN LOCATIONS.
20. WS169, WS180, WS191
21. SD82, SL145, SL146, SL147, SP175, SP180, SP181, WS103, WS177, WS198
22. CAP (5) 4" C.O. FOR FUTURE USE FOR REEFER TRANSFORMER, CRANE (SPARE) AND FUTURE LOAD.
23. REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.
24. REMOVE EXISTING FIBER OPTIC TERMINATION HOUSING IN CABINET AND PROVIDE A CORNING TYPE SPH WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL MOUNTED IN CABINET.



1 E3.2 **ELECTRICAL PLAN - SHEET 1**

SCALE: 1"=40'





SCALE: 1"=40'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E303

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5522
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

APPROVED:

DIRECTOR ENG. DATE PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

ELECTRICAL PLAN - SHEET 1

CONT/CONS:	0701.36	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

6552

E3.3

SH 129 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

GENERAL NOTES

1. ALL ELECTRICAL CONNECTIONS IN BULLRAIL VAULTS TO USE NO-OX CORROSION INHIBITING LUBRICANT, OR APPROVED EQUAL.
2. REFER TO CIVIL DRAWINGS FOR DUCTBANK AND PROFILE INFORMATION.
3. SEE SHEETS E6.10-E6.13 FOR ROUTING CONDUITS IN UTILITY TRENCHES AT BULLRAIL.

KEY NOTES

(1) CRANE POWER VAULT TO SUPPLY CRANES #5, #6.

(2) INTERCEPT ABANDONED COMMUNICATION DUCTBANK, CUT DUCTBANK AND REMOVE DUCTBANK AS NEEDED TO PROVIDE VAULT. EXTEND DUCTBANK THAT WAS CUT TO TERMINATE AT VAULT. SEE KEY NOTE #16 ON SHEET E2.4 FOR LOCATION WHERE THE DUCTBANK WAS CUT.

(3) CONDUITS TO BE RUN IN PILE CAP PER DETAIL D, DWG S10.1.

(4) SD64, SL107, SL108, SL109, SP165, SP188, SP189, SP212, WS171, WS182, WS193, WS202, WS206

(5) CP28, CP31, CP34, CP37, PD21, SP116, SP119, SP122, SP125, SP139, SP143, SP149

(6) SD55, SD71, SL128, SL129, SL130, SP156, SP168, SP198, SP199, SP208, WS109, WS122, WS132, WS142, WS151, WS156, WS161, WS165, WIFIP20

(7) SD54, SD70, SL125, SL126, SL127, SP155, SP167, SP200, SP201, SP209, WS121, WS131, WS141, WIFIP19

(8) SL119, SL120, SL121, WIFIP17

(9) SL122, SL123, SL124, WIFIP18

(10) SD53, SD69, SL116, SL117, SL118, SP154, SP166, SP203, SP204, SP210, WS120, WS130, WS140

(11) CP40, CP43, CP46, CP49, PD19, SP128, SP131, SP134, SP137, SP141, SP147

(12) SD68, SL113, SL114, SL115, SP173, SP174, WS115, WS127, WS136, WS147, WIFIP24

(13) SD67, SP171, SP172, WS116, WS128, WS137, WS148, WIFIP25

(14) SL110, SL111, SL112

(15) CP29, CP32, CP35, CP38, PD22, SP117, SP120, SP123, SP126, SP140, SP144, SP150

(16) CP41, CP44, CP47, CP50, PD20, SP129, SP132, SP135, SP138, SP142, SP148

(17) SEE SPECIFICATION 26 56 36 FLOOD LIGHTING FIXTURES FOR QUANTITY OF LIGHTING FIXTURES EXISTING ON THE POLE AND QUANTITY OF FIXTURES REQUIRED AT POLE. SEE SHEET S45.1 FOR LIGHTING POLE BASE DETAIL.

(18) SEE SHEET E3.8 FOR CONDUIT TAGS FOR THESE CONDUITS.

(19) CRANE POWER VAULT TO SUPPLY CRANES #7, #8.

(20) BULL RAIL POWER VAULT #12, WPV12.

(21) GROUND WIRE CONNECTION AT CRANE RAILS TO BE EXOTHERMIC WELD. SEE STRUCTURAL SHEETS FOR CRANE RAIL DETAILS.

(22) EXTEND EXISTING POWER DUCTBANK TO VAULT SDV12. SEE KEY NOTE #15 ON SHEET E2.4 FOR LOCATION WHERE THE DUCTBANK WAS CUT. CAP ONE CONDUIT AND ABANDON CONDUIT. EXTEND OTHER CONDUIT TO VAULT SDV12.

(23) PROVIDE COMMUNICATIONS CABINET, 36"Hx30"Wx8"D, 316L STAINLESS STEEL, WITH PAINTED STEEL PANEL, GASKETING, CONTINUOUS HINGE ON DOOR AND STAINLESS STEEL DOOR CLAMPS. CONNECT TO CIRCUIT MPZ-YL05/8. 3/4"C, 2#12, #12G. MOUNT CABINET AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED. PROVIDE CORNING TYPE SPH, WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL, MOUNTED IN CABINET.

(24) EXTEND EXISTING RACEWAYS FROM THIS LOCATION TO VAULT SDV9 AND PROVIDE WIRING TO RECONNECT LIGHTING POLE #YL12.

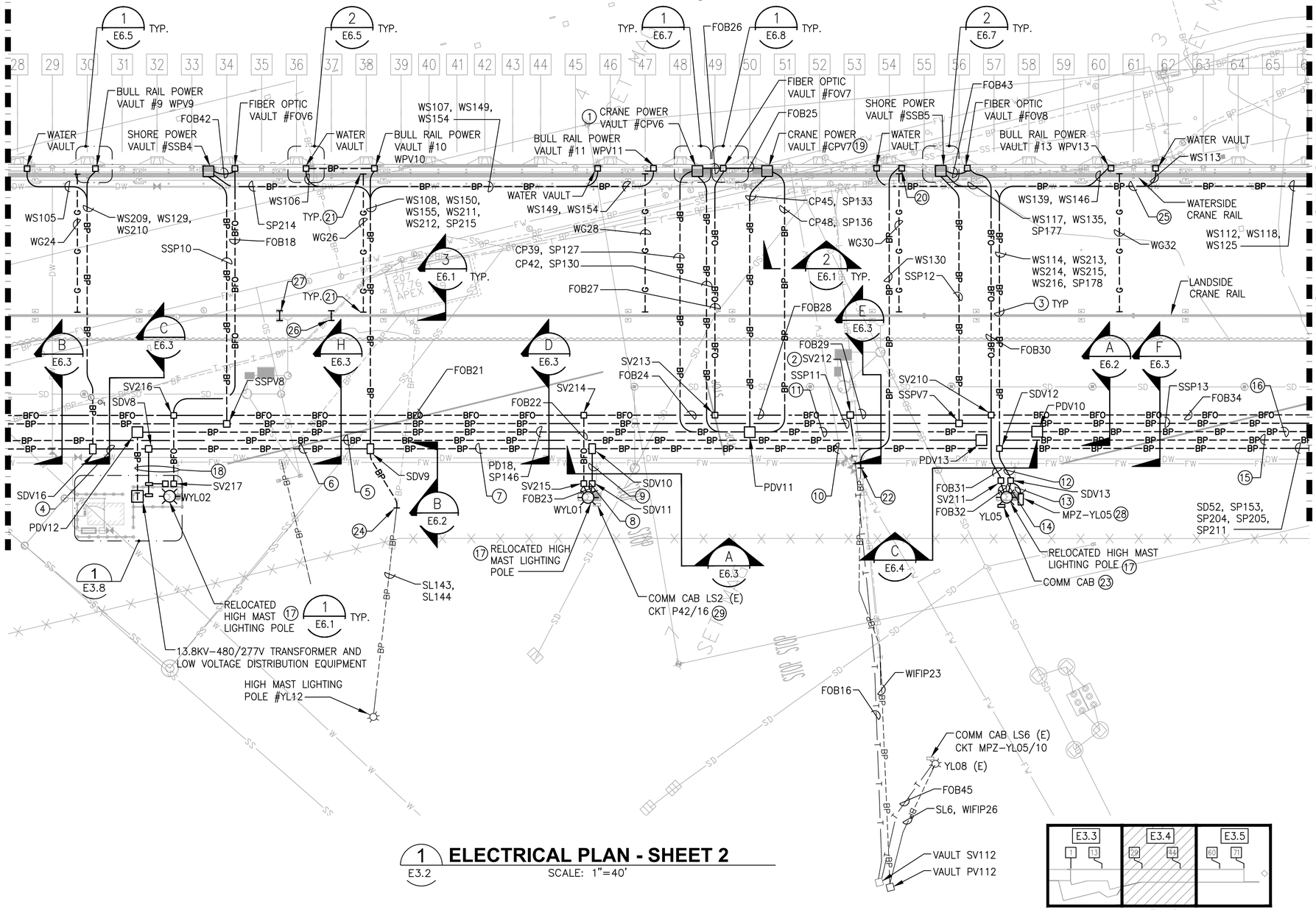
(25) WS112, WS113, WS118, WS125, WS139, WS146

(26) 3/4"C, 1#4G FROM CRANE RAILS TO CRANE PIN SOCKETS, TYPICAL. SEE SHEET S3.1 FOR PIN SOCKET LOCATIONS.

(27) 3/4"C, 1#4G FROM CRANE RAILS TO CRANE TIE DOWNS, TYPICAL. SEE SHEET S3.1 FOR TIE DOWN LOCATIONS.

(28) MOUNT MPZ AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH THE VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED. PROVIDE GROUND ROD IN GROUND WELL ADJACENT TO POLE AND CONNECT TO MPZ WITH 1"C, 1#6G.

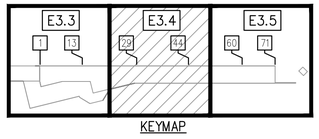
(29) REMOVE EXISTING FIBER OPTIC TERMINATION HOUSING IN CABINET AND PROVIDE A CORNING TYPE SPH WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL MOUNTED IN CABINET.



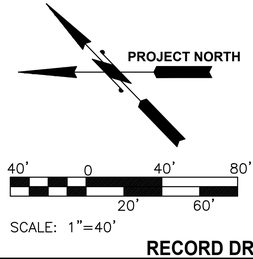
1 ELECTRICAL PLAN - SHEET 2

E3.2

SCALE: 1"=40'



KEYMAP



SCALE: 1"=40'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E304

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5222
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY DATE

DIRECTOR ENG. DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

SECTION:

RANGE:

TOWNSHIP:

VERT: MLLW 19.39' @ Tide 22 1933

DAT-HRZ: WA83-SF

PARCEL:

CONT/CONS: 070136

M. ID: 091251

PHASE: CONFORMED

PIER 4 PHASE 2 RECONFIGURATION

ELECTRICAL PLAN - SHEET 2

6552

E3.4

SH 130 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

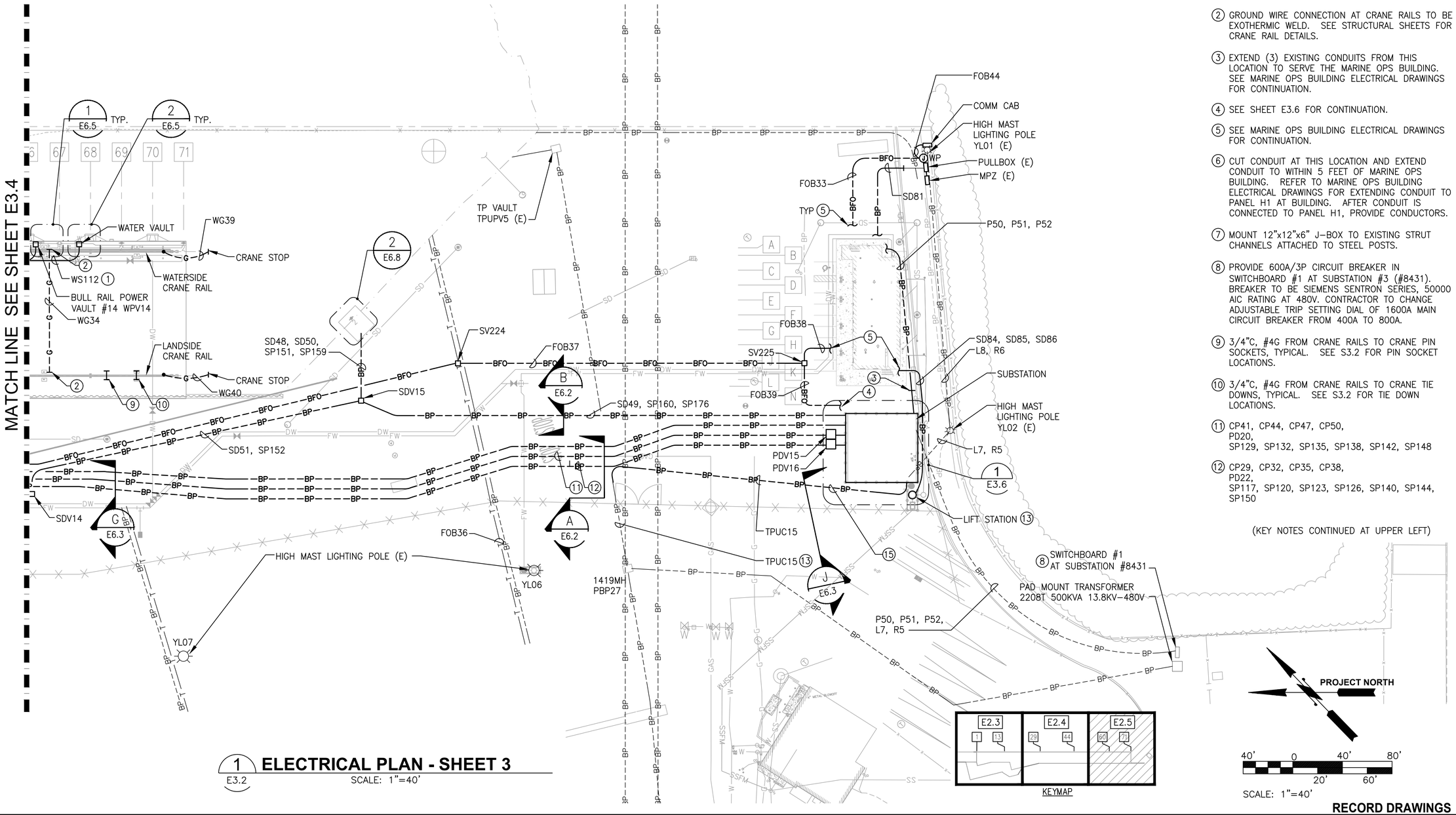
KEY NOTES

(13) REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.

(14) PROVIDE COMMUNICATIONS CABINET, 36"Hx30"Wx8"D, 316 STAINLESS STEEL, WITH PAINTED STEEL PANEL, GASKETING, CONTINUOUS HINGE ON DOOR AND STAINLESS STEEL DOOR CLAMPS. CONNECT TO CIRCUIT 2R/4 IN CABINET LS1 ON POLE. MOUNT CABINET AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED. PROVIDE CORNING TYPE SPH, WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL, MOUNTED IN CABINET.

(15) SEE CONSTRUCTION NOTES #1 AND #4 ON SHEET E3.1 REGARDING THIS WORK.

LOAD STUDY SWITCHBOARD #1 AT SUBSTATION #3 (#8431)	
PEAK DEMAND LOAD (PER TACOMA POWER) (ASSUME PF=0.85) 178KW = 209kVA	252 A
REMOVE (4) REEFER BUNKERS @ 7.5kVA EACH	–36 A
NET DEMAND LOAD	216 A
PER NEC 220.87 x 1.25	270 A
MARINE OPS BUILDING 225kVA	271 A
TOTAL LOAD	541 A
SWITCHBOARD #1 HAS A 1600A MAIN CIRCUIT BREAKER	



(KEY NOTES CONTINUED AT UPPER LEFT)

1 E3.2 **ELECTRICAL PLAN - SHEET 3**
SCALE: 1"=40'

GENERAL NOTES

1. ALL ELECTRICAL CONNECTIONS IN BULLRAIL VAULTS TO USE NO–OX CORROSION INHIBITING LUBRICANT, OR APPROVED EQUAL.
2. REFER TO CIVIL DRAWINGS FOR DUCTBANK PLAN AND PROFILE INFORMATION.
3. SEE SHEET E6.13 FOR ROUTING CONDUITS IN UTILITY TRENCHES AT BULLRAIL.

KEY NOTES

(1) ROUTE IN LANDSIDE UTILITY TRENCH, THEN TO VAULT.

(2) GROUND WIRE CONNECTION AT CRANE RAILS TO BE EXOTHERMIC WELD. SEE STRUCTURAL SHEETS FOR CRANE RAIL DETAILS.

(3) EXTEND (3) EXISTING CONDUITS FROM THIS LOCATION TO SERVE THE MARINE OPS BUILDING. SEE MARINE OPS BUILDING ELECTRICAL DRAWINGS FOR CONTINUATION.

(4) SEE SHEET E3.6 FOR CONTINUATION.

(5) SEE MARINE OPS BUILDING ELECTRICAL DRAWINGS FOR CONTINUATION.

(6) CUT CONDUIT AT THIS LOCATION AND EXTEND CONDUIT TO WITHIN 5 FEET OF MARINE OPS BUILDING. REFER TO MARINE OPS BUILDING ELECTRICAL DRAWINGS FOR EXTENDING CONDUIT TO PANEL H1 AT BUILDING. AFTER CONDUIT IS CONNECTED TO PANEL H1, PROVIDE CONDUCTORS.

(7) MOUNT 12"x12"x6" J–BOX TO EXISTING STRUT CHANNELS ATTACHED TO STEEL POSTS.

(8) PROVIDE 600A/3P CIRCUIT BREAKER IN SWITCHBOARD #1 AT SUBSTATION #3 (#8431). BREAKER TO BE SIEMENS SENTRON SERIES, 50000 AIC RATING AT 480V. CONTRACTOR TO CHANGE ADJUSTABLE TRIP SETTING DIAL OF 1600A MAIN CIRCUIT BREAKER FROM 400A TO 800A.

(9) 3/4"C, #4G FROM CRANE RAILS TO CRANE PIN SOCKETS, TYPICAL. SEE S3.2 FOR PIN SOCKET LOCATIONS.

(10) 3/4"C, #4G FROM CRANE RAILS TO CRANE TIE DOWNS, TYPICAL. SEE S3.2 FOR TIE DOWN LOCATIONS.

(11) CP41, CP44, CP47, CP50, PD20, SP129, SP132, SP135, SP138, SP142, SP148

(12) CP29, CP32, CP35, CP38, PD22, SP117, SP120, SP123, SP126, SP140, SP144, SP150

PORT OF TACOMA
P.O. BOX 1837 TACOMA, WA 98401-2535/253-383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY: angel Jun 28, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401–1837			

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
ELECTRICAL PLAN - SHEET 3

TOWNSHIP:	RANGE:	SECTION:	
DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
E3.5
SH 131 OF 499

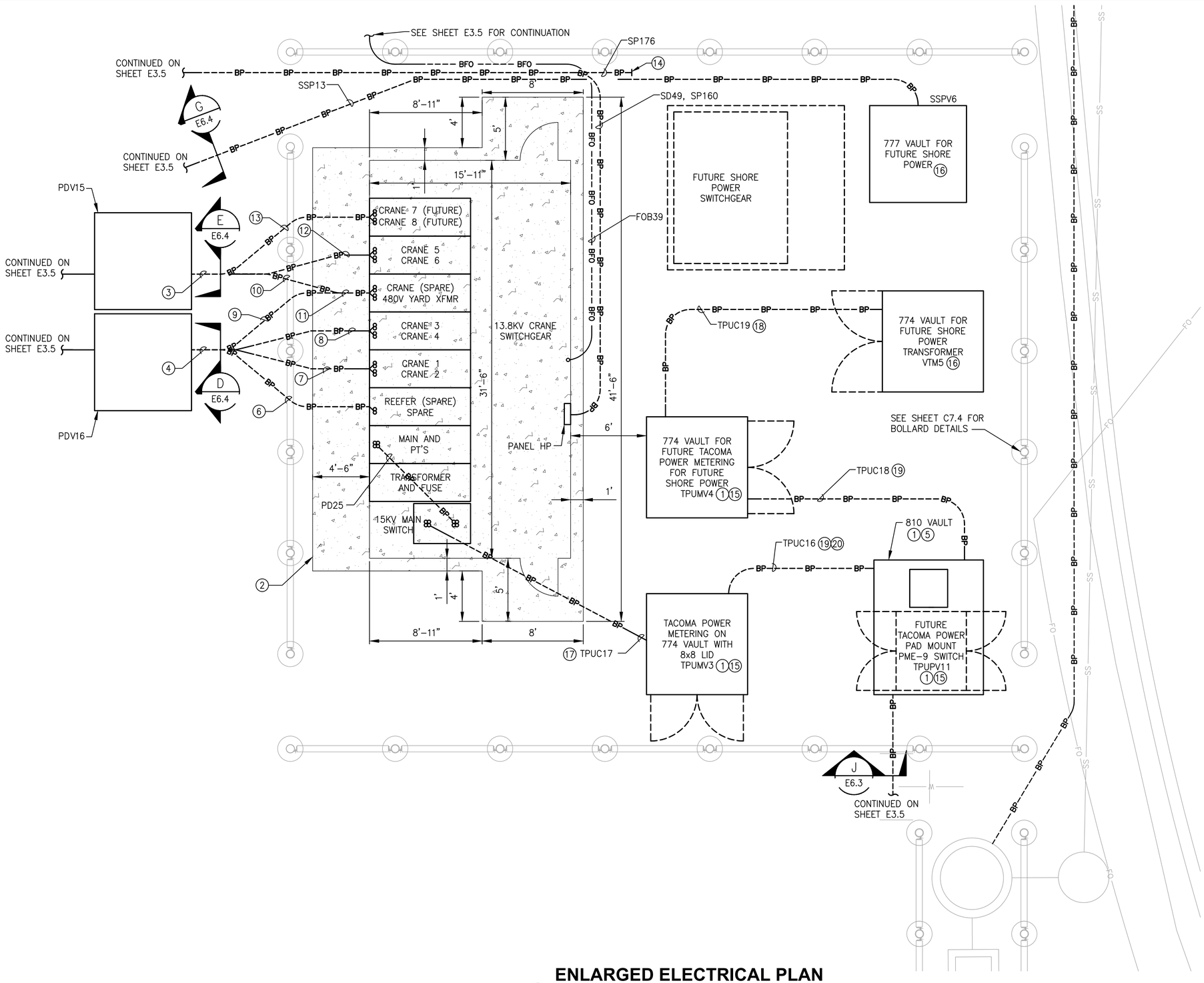
CONT/CONS: 0701.36
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E305

BINDING EDGE



ENLARGED ELECTRICAL PLAN SUBSTATION #8410

1 / E3.5 — 1/4" = 1'-0"

GENERAL NOTES

1. THE PROPOSED SERVICE INDICATED IS SUBJECT TO REVIEW AND REVISION BY TACOMA POWER.

KEY NOTES

(1) VAULT TO BE PER TACOMA POWER STANDARDS.

(2) PROVIDE MINIMUM 9" ABOVE FINISHED GRADE, RE-BAR REINFORCED, CONCRETE PAD BELOW PDSE SWITCHGEAR ENCLOSURE. SEE SPECIFICATION 33 77 00, PARAGRAPH 2.04, FOR PDSE REQUIREMENTS. PROVIDE BLOCK-OUTS IN CONCRETE PAD BELOW SWITCHGEAR FOR CONDUIT ACCESS. CONTRACTOR AS PART OF THE SHOP DRAWINGS SHALL PROVIDE CONCRETE PAD SUBMITTAL THAT HAS BEEN DESIGNED AND STAMPED BY A STRUCTURAL ENGINEER. SEE SPECIFICATIONS 03 10 00, 03 20 00, AND 03 30 00 FOR CONCRETE SLAB AND REINFORCING CONSTRUCTION REQUIREMENTS.

(3) CP55, CP56, CP57, CP58, PD24, SP222, SP223, SP224, SP225, SP227, SP229

(4) CP51, CP52, CP53, CP54, PD23, SP218, SP219, SP220, SP221, SP226, SP228, SP230

(5) PROVIDE 64"x70" BLOCKOUT IN LID.

(6) PD23, SP228, SP230

(7) CP51, CP52, SP218, SP219

(8) CP53, CP54, SP220, SP221

(9) SP226

(10) PD24, SP227, SP229

(11) PD24, SP226, SP227, SP229

(12) CP55, CP56, SP222, SP223

(13) CP57, CP58, SP224, SP225

(14) CAP CONDUIT FOR FUTURE EXTENSION TO SHORE POWER SWITCHGEAR.

(15) TACOMA POWER APPROVED ELECTRICAL CONTRACTOR TO PROVIDE VAULT.

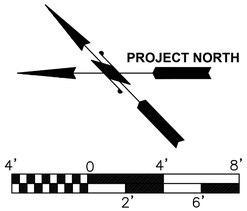
(16) CONTRACTOR TO PROVIDE VAULT.

(17) CONTRACTOR TO PROVIDE CONDUITS AND MV CABLES.

(18) CONTRACTOR TO PROVIDE CONDUITS.

(19) TACOMA POWER APPROVED ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS.

(20) TACOMA POWER TO PROVIDE MV CABLES.



SCALE: 1"=4'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY:	angel Jun 28, 2018	PROJ. ENGR	
PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
ENLARGED ELECTRICAL PLAN SUBSTATION #8410

TOWNSHIP:	RANGE:	SECTION:
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PARCEL:		

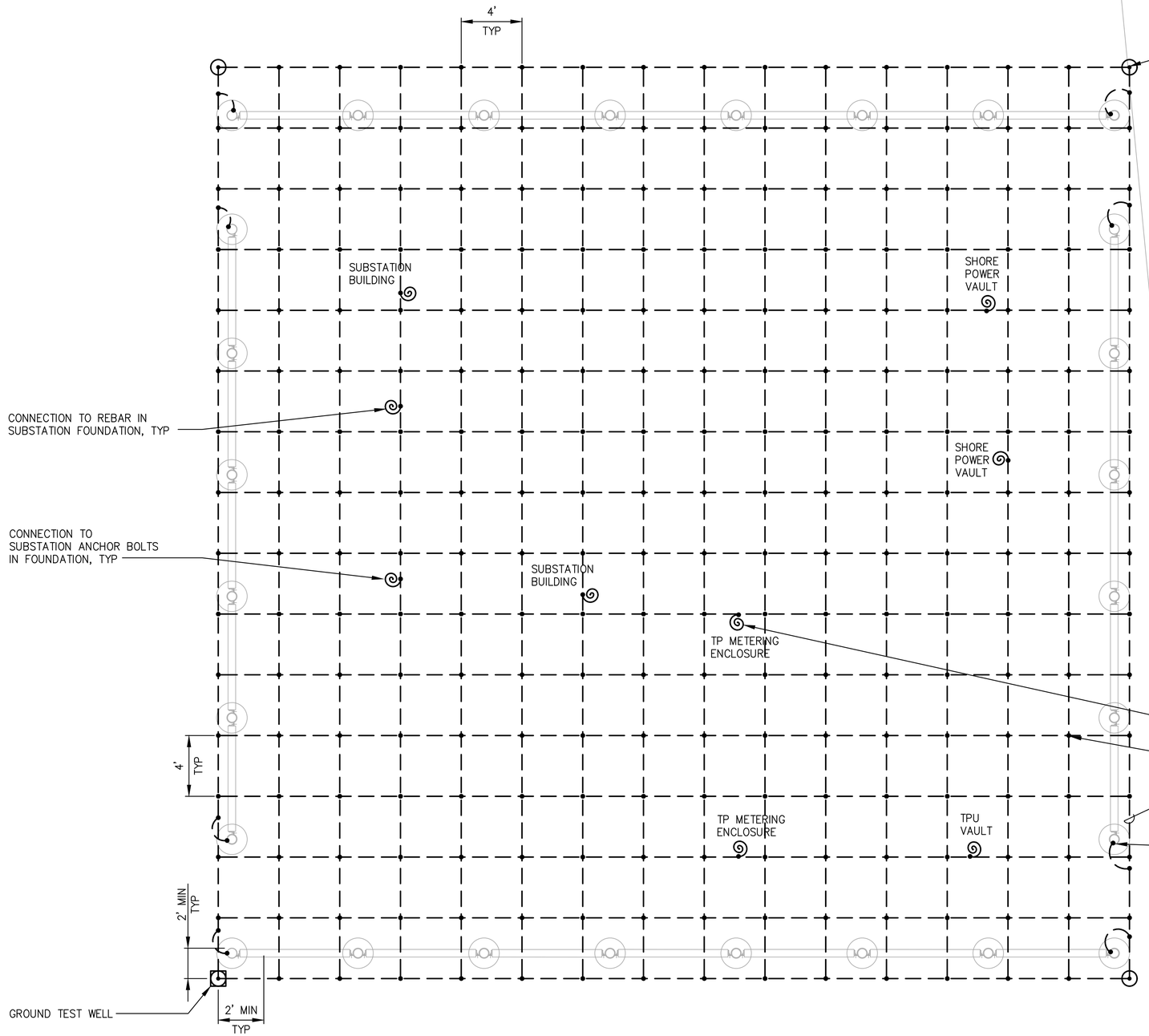
6552
E3.6
SH 132 OF 499

CONT/CONS:	0701.36
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E306

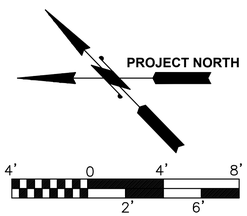
BINDING EDGE



SUBSTATION #8410 GROUND GRID

1 / E3.7

1/4" = 1'-0"



SCALE: 1"=4'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_BuiltPhase 2\091251-E307

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535353941

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

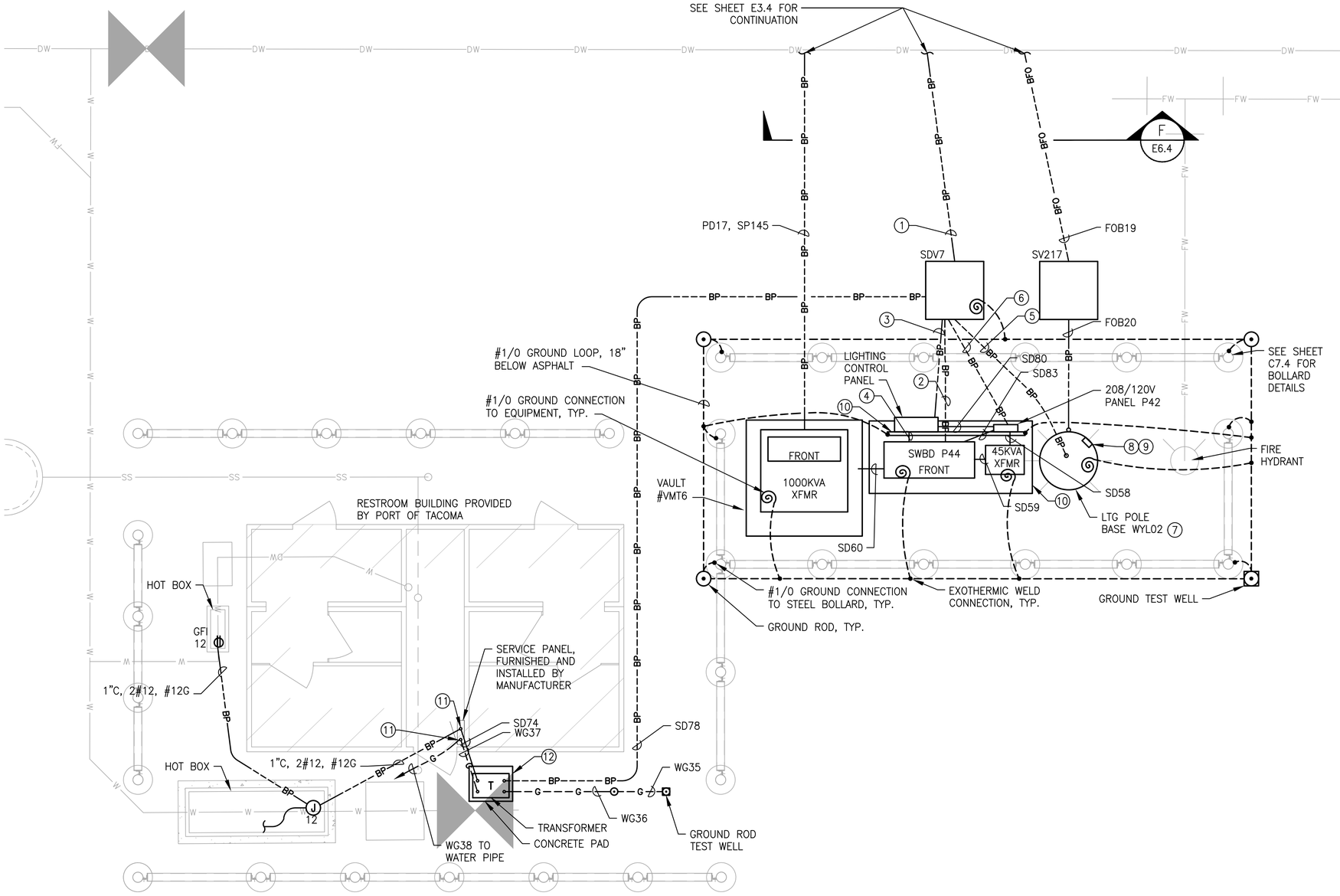
PIER 4 PHASE 2
RECONFIGURATION
SUBSTATION #8410 GROUND GRID

CONT/CONS:	070136	TOWNSHIP:	RANGE:	SECTION:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: angel Jun 28, 2018
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
E3.7
SH 133 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

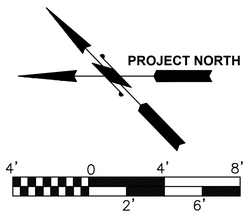


ENLARGED ELECTRICAL PLAN
YARD ELEC DISTRIBUTION

1 / E3.4 — 1/4" = 1'-0"

KEY NOTES

1. SL131, SL132, SL133, SD56, SD65, SD72, SP157, SP169, SP186, SP187, SP207, WS110, WS123, WS133, WS143, WS152, WS157, WS162, WS166, WS172, WS183, WS194, WS203, WS207, WIFIP21
2. SD57, SD66, SD73, SD79, SP158, SP206, WS124, WS134, WS144, WS153, WS163, WS173, WS184, WS195, WS204
3. SL137, SL138, SL139, SP170
4. SL140, SL141, SL142
5. SL134, SL135, SL136
6. SP184, SP185, WIFIP22 WS111, WS158, WS167, WS208
7. SEE SPECIFICATION 26 56 36 FLOOD LIGHTING FIXTURES FOR QUANTITY OF LIGHTING FIXTURES EXISTING ON THE POLE AND QUANTITY OF FIXTURES REQUIRED AT POLE. SEE SHEET S45.1 FOR LIGHTING POLE BASE DETAIL.
8. PROVIDE COMMUNICATIONS CABINET, 36"Hx30"Wx8"D, 316L STAINLESS STEEL, WITH PAINTED STEEL PANEL, GASKETING, CONTINUOUS HINGE ON DOOR AND STAINLESS STEEL DOOR CLAMPS. CONNECT TO CIRCUIT P42/14. 3/4"C, 2#12, #12G. MOUNT CABINET AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED. PROVIDE CORNING TYPE SPH, WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL, MOUNTED IN CABINET.
9. PROVIDE 3/4"C, 2#12, #12G FROM PANEL P42 TO ADJACENT COMM CABINET AND CONNECT TO DUPLEX RECEPTACLE IN CABINET. CONNECT TO CIRCUIT P42/14.
10. SEE CIVIL DRAWING C4.9 FOR SLAB DETAIL. CONTRACTOR SHALL SUBMIT DESIGN DETAILS, INCLUDING STAMPED AND SIGNED STRUCTURAL SHOP DRAWINGS AND CALCULATIONS BY PROFESSIONAL ENGINEER, FOR STRUCTURAL PANEL SUPPORT FRAME TO PORT FOR APPROVAL.
11. STUB UP THROUGH BLOCKOUT IN FLOOR BENEATH PANEL, WITH SUFFICIENT LENGTH OF SPARE WIRES FOR RESTROOM BLDG CONTRACTOR TO EXTEND CONDUITS TO PANEL AND CONNECT WIRING.
12. SEE CIVIL SHEET C4.12 FOR EQUIPMENT PAD DETAILS.



SCALE: 1"=4'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED: | CHECKED BY | DATE

DIRECTOR ENG. DATE | PROJ. ENGR | DATE

PRINTED BY: angel Jun 28, 2018 | SECTION: | RANGE: | TOWNSHIP: | CONT/CONS: 070136

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837 | DRAWING SCALE: AS NOTED | VERT: MLLW 19.39' @ Tide 22 1933 | DAT-HRZ: WA83-SF | M. ID: 091251

PIER 4 PHASE 2
RECONFIGURATION
ENLARGED ELECTRICAL PLAN
YARD ELECTRICAL DISTRIBUTION

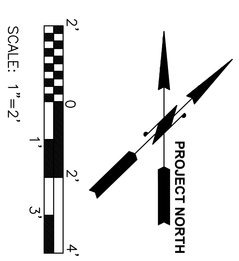
PARCEL: | PHASE: CONFORMED

6552
E3.8
SH 134 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\6650-041.01\Dwgs\As_Built\Phase 2\091251-E308

SHEET REMOVED FROM SET, ALL INFORMATION PREVIOUSLY SHOWN HAS BEEN INCORPORATED INTO SHEET E3.8

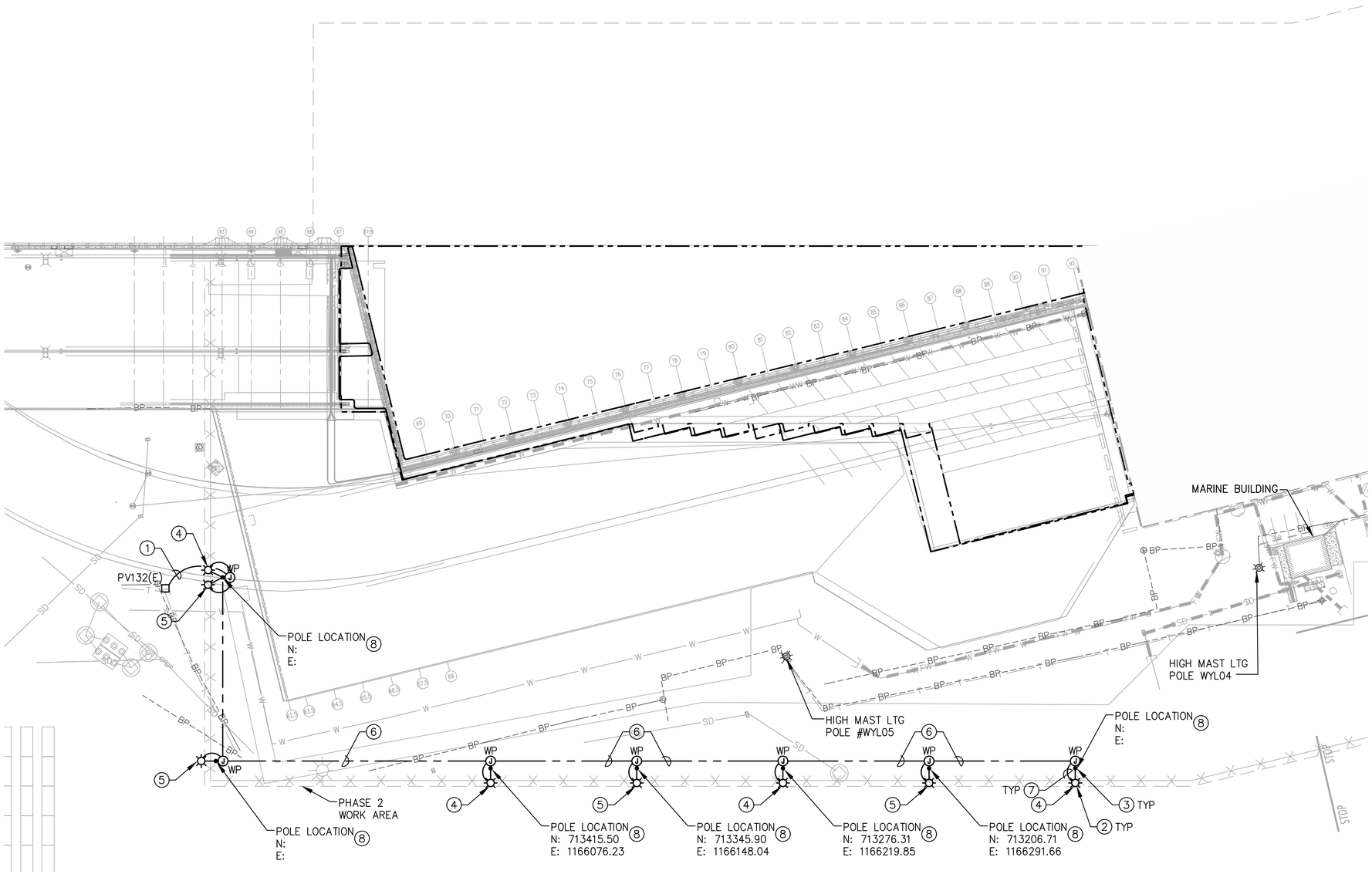


RECORD DRAWINGS

6552 **E3.9** SH 135 OF 499	**PIER 4 PHASE 2 RECONFIGURATION** **RESTROOM BUILDING ELECTRICAL PLAN**			APPROVED: DIRECTOR ENG. DATE	CHECKED BY DATE PROJ. ENGR DATE	RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION	ELCON ASSOCIATES, INC ENGINEERS - CONSULTANTS 16300 CHRISTENSEN ROAD, SUITE 330 SEATTLE, WASHINGTON 98188 TEL (206) 243-5022 FAX (206) 243-5205		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:	PRINTED BY: angel Jul 12, 2018			MARK:	REVISION: BY:	APPR: DATE:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA					
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837					

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



PARTIAL SITE TEMPORARY LIGHTING PLAN

1 / E2.2

SCALE: 1"=40'

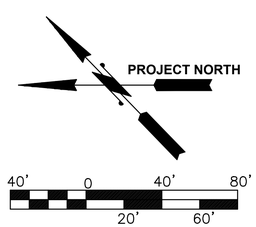
GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR WATER, STORM DRAIN, AND SANITARY SEWER UTILITIES.
2. CONTRACTOR SHALL NOT DISCONNECT POWER TO EXISTING LIGHTING FIXTURES ON HIGH MAST POLES UNTIL TEMPORARY LIGHTING INSTALLATION INDICATED ON SHEET E3.10 IS ENERGIZED. WHEN EXISTING LIGHTING POLES ARE RELOCATED AND RECONNECTED, REMOVE TEMPORARY LIGHTING INSTALLATION.

KEY NOTES

1. (2) 2"C, 3#1/0, #6G EACH.
2. ROADWAY LIGHTING FIXTURE, HUBBELL #RLCD-4057B-032-0-2-5-FO-M53, MOUNTED ON STEEL MAST ARM AT +35' ABOVE GRADE. MAST ARM TO BE MACLEAN POWER SYSTEMS #S-125-6SG OR APPROVED EQUAL.
3. LIGHTING POLE INSTALLATION, POLE WIRING AND GROUNDING TO BE PER WSDOT STANDARD PLAN, J-15-10.01.
4. CONNECT FIXTURE TO SECURITY LIGHTING CIRCUIT, SERVED FROM PIER 3 PANEL 4P1.
5. CONNECT FIXTURE TO YARD LIGHTING CIRCUIT, SERVED FROM PIER 3 PANEL 4P1.
6. (2) 3#1/0, #6G, AERIAL CABLE.
7. 2#1/0, #6G.
8. BURIAL DEPTH OF POLE TO BE A MINIMUM OF 10% OF THE TOTAL POLE LENGTH PLUS 2 FEET, PER THE WSDOT STANDARD SPECIFICATIONS.





SCALE: 1"=40'

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

	CHECKED BY	DATE
DIRECTOR ENG.		
PROJ. ENGR		
PRINTED BY:	angel	Jul 12, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
PARTIAL SITE TEMPORARY LIGHTING PLAN

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED
TOWNSHIP:	
RANGE:	
SECTION:	
DAT-HRZ:	WA83-SF
VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:	
DRAWING SCALE:	AS NOTED

6552
E3.10
SH 136 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E310

BINDING EDGE

GENERAL NOTES

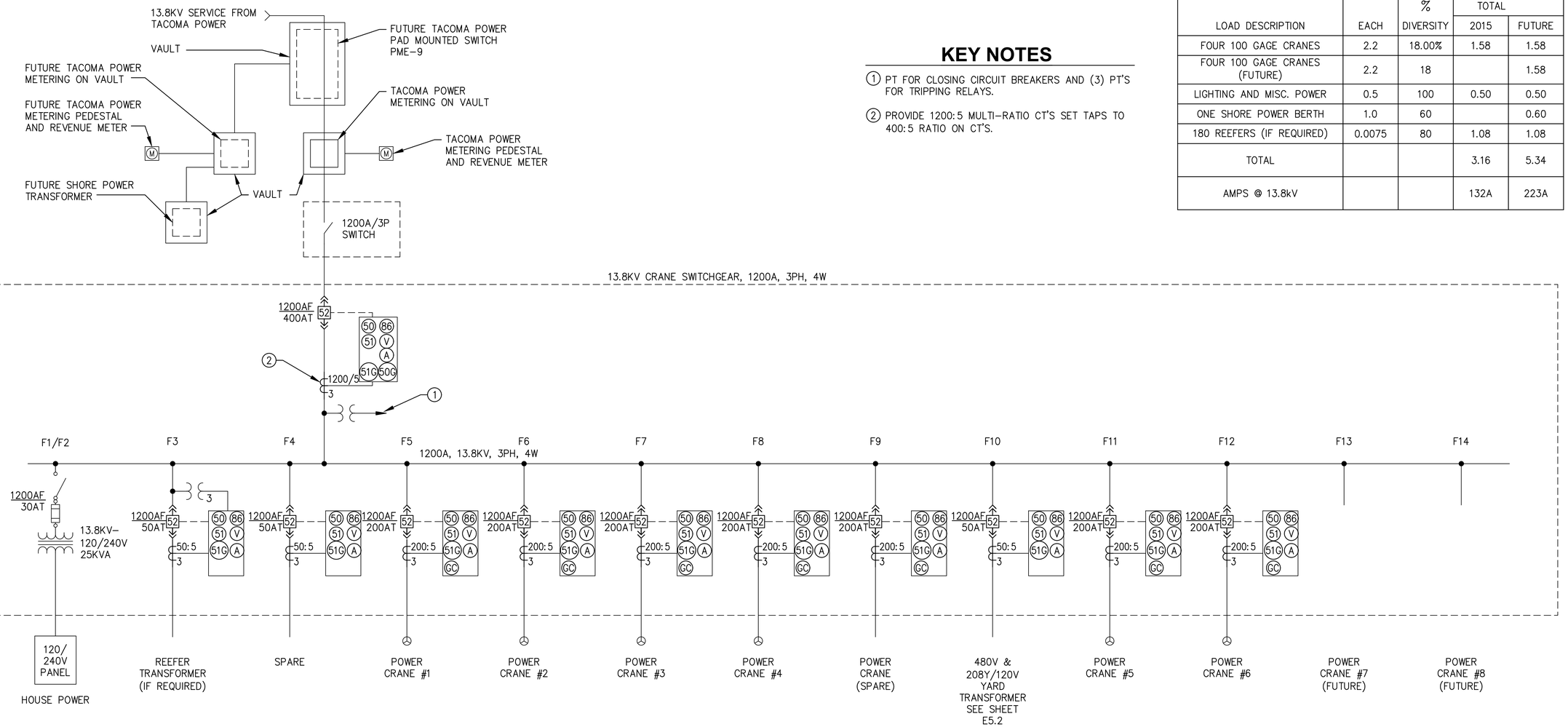
1. THE PROPOSED SERVICE INDICATED IS SUBJECT TO REVIEW AND REVISION BY TACOMA POWER.

KEY NOTES

(1) PT FOR CLOSING CIRCUIT BREAKERS AND (3) PT'S FOR TRIPPING RELAYS.

(2) PROVIDE 1200:5 MULTI-RATIO CT'S SET TAPS TO 400:5 RATIO ON CT'S.

DESIGN BASIS LOAD ESTIMATE (MVA)				
		%	TOTAL	
LOAD DESCRIPTION	EACH	DIVERSITY	2015	FUTURE
FOUR 100 GAGE CRANES	2.2	18.00%	1.58	1.58
FOUR 100 GAGE CRANES (FUTURE)	2.2	18		1.58
LIGHTING AND MISC. POWER	0.5	100	0.50	0.50
ONE SHORE POWER BERTH	1.0	60		0.60
180 REEFERS (IF REQUIRED)	0.0075	80	1.08	1.08
TOTAL			3.16	5.34
AMPS @ 13.8kV			132A	223A



SUBSTATION #8410 ONE-LINE DIAGRAM

1 – NO SCALE

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E501

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5522
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY

PROJ. ENGR

PRINTED BY: angel Jul 12, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

SUBSTATION #8410 ONE-LINE DIAGRAM

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	

SECTION:

6552

E5.1

SH 137 OF 499

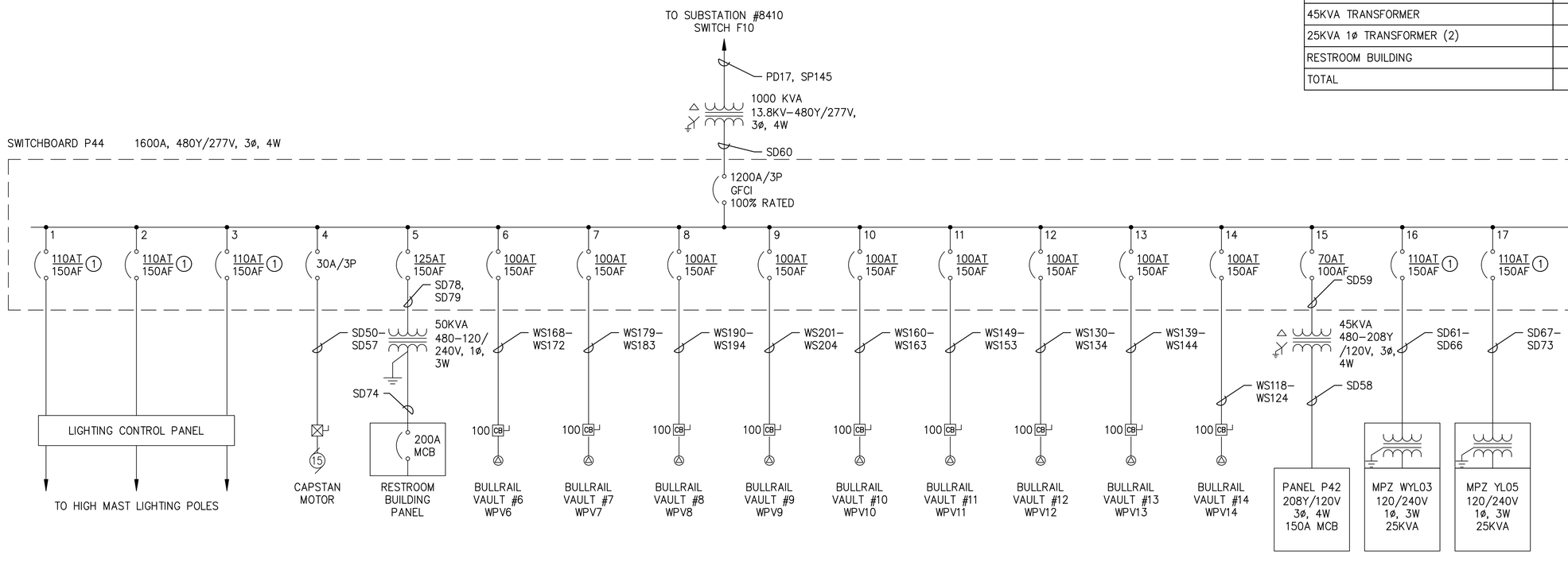
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

KEYED NOTES

(1) SET DIAL ON BREAKER TO 0.9

LOAD STUDY SWBD P44	
LIGHTING (157 @ 1.95A)	176A
CAPSTAN MOTOR (15HP)	21A
BULLRAIL 100A RECEPT. (MAX 4 IN USE)	400A
45KVA TRANSFORMER	54A
25KVA 1ø TRANSFORMER (2)	60A
RESTROOM BUILDING	11A
TOTAL	722A



1 YARD ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

RECORD DRAWINGS

PORT of TACOMA
P.O. BOX 1837 TACOMA, WA 98401-2553/253-383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

YARD ELECTRICAL ONE-LINE DIAGRAM

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552

E5.2

SH 138 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E502

BINDING EDGE

GENERAL NOTES

1. THE PROPOSED SERVICE INDICATED IS SUBJECT TO REVIEW AND REVISION BY TACOMA POWER.

KEYED NOTES

(1) 3–350KCMIL CU PROVIDED BY TPU IN EXISTING DUCTBANK.

(2) TACOMA POWER APPROVED ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS.

(3) TACOMA POWER TO PROVIDE 3–350KCMIL CU CABLES.

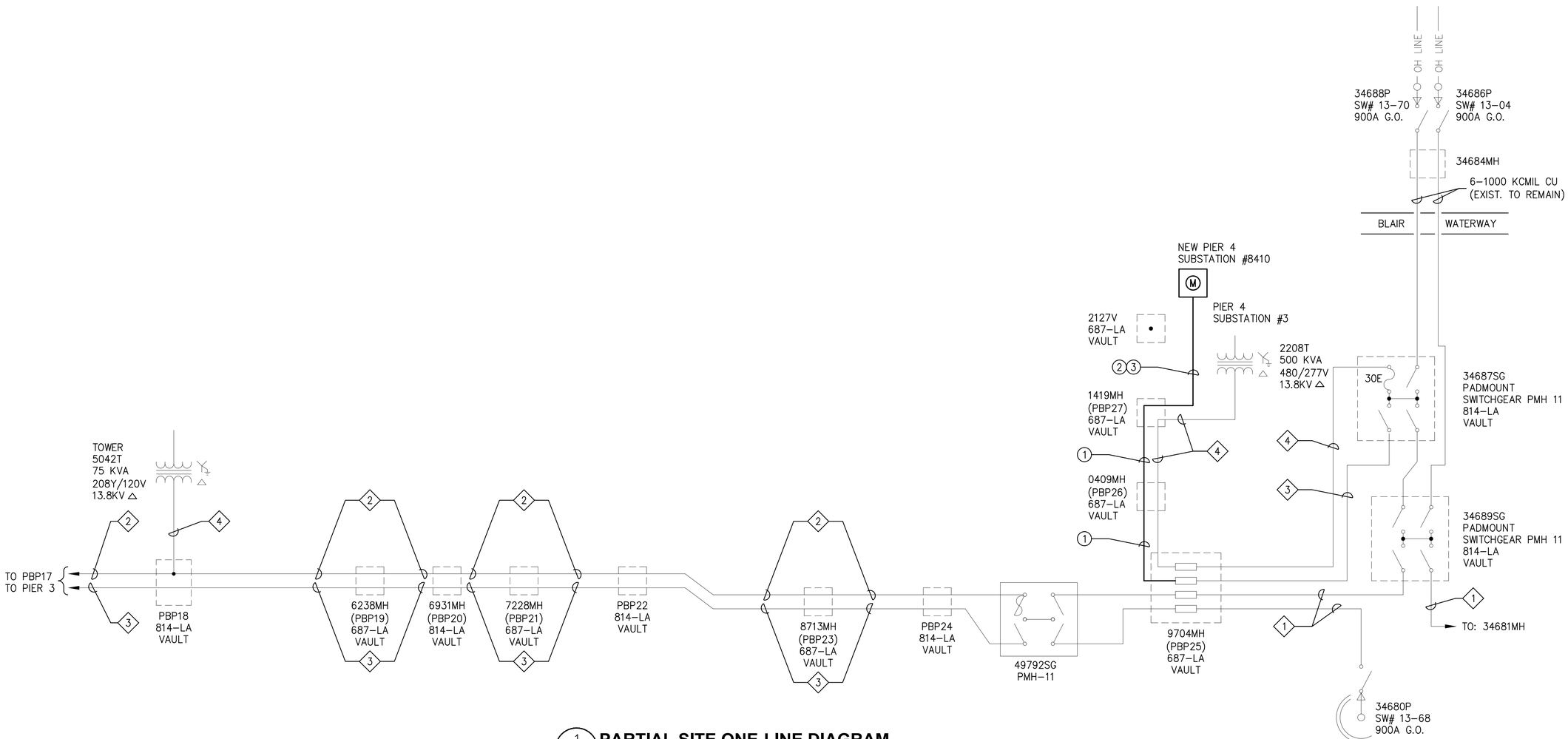
FOR INFORMATION ONLY NOTES

◇1 6–350KCMIL CU (EXISTING TO REMAIN)

◇2 3–1/0 CU (EXISTING TO REMAIN)

◇3 3–350KCMIL CU (EXISTING TO REMAIN)

◇4 3–#2 CU (EXISTING TO REMAIN)



1 **PARTIAL SITE ONE-LINE DIAGRAM**
NO SCALE

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E503

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

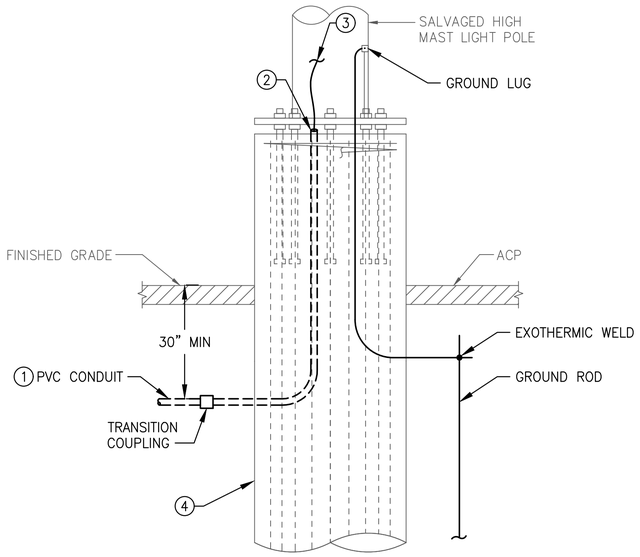
PIER 4 PHASE 2
RECONFIGURATION
PARTIAL SITE ONE-LINE DIAGRAM

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
E5.3
SH 139 OF 499

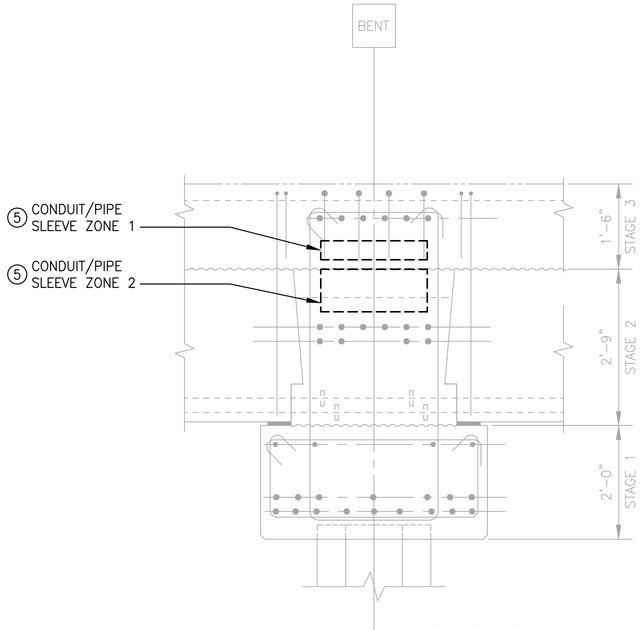
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



SITE LIGHTING POLE FOUNDATION DETAIL

1 / E3.3, E3.4 — NO SCALE

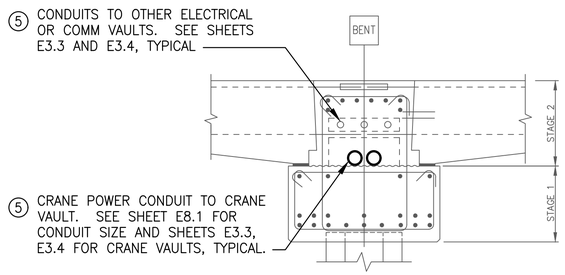


PILE CAP SECTION AT WATERSIDE CRANE BEAM

4 / E6.9–E6.13 — NO SCALE

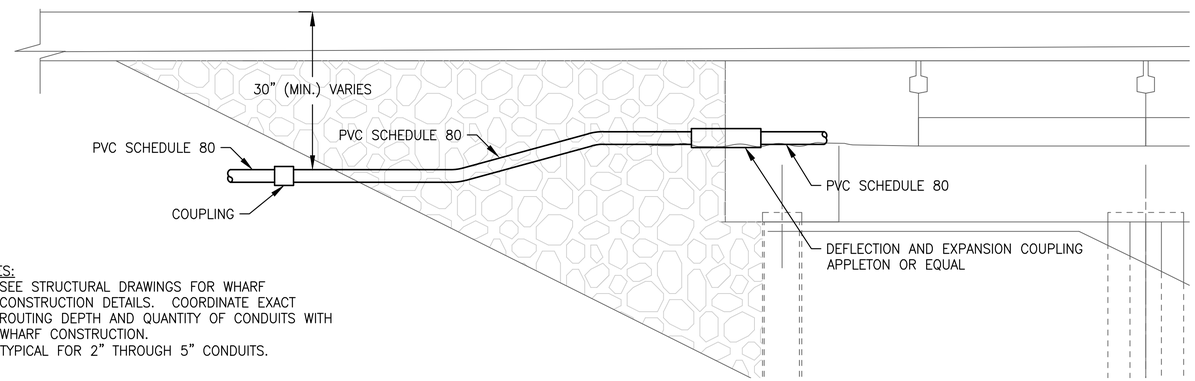
KEY NOTES

1. SEE SHEETS E3.2, E3.3 AND E3.4 FOR QUANTITY OF LIGHTING CONDUITS ROUTED TO EACH LIGHTING POLE.
2. STUB UP CONDUITS MIN. 1" ABOVE TOP OF CONCRETE POLE BASE AND TERMINATE WITH AN INSULATED BUSHING.
3. ROUTING OF WIRING AND TERMINATIONS TO MATCH EXISTING INSTALLATIONS.
4. SEE SHEET S45.1 FOR LIGHTING POLE BASE DETAILS.
5. SEE STRUCTURAL SHEET S10.1 FOR INFORMATION REGARDING THE CONDUIT/PIPE SLEEVE ZONES.



SECTION THROUGH PILECAP FOR SERVICE TO CRANE VAULTS

2 / E3.3, E3.4 — NO SCALE



NOTES:
1. SEE STRUCTURAL DRAWINGS FOR WHARF CONSTRUCTION DETAILS. COORDINATE EXACT ROUTING DEPTH AND QUANTITY OF CONDUITS WITH WHARF CONSTRUCTION.
2. TYPICAL FOR 2" THROUGH 5" CONDUITS.

DEFLECTION AND EXPANSION COUPLING

3 / E3.4, E6.10–E6.12 — NO SCALE

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

SECTION: 19.39' @ Tide 22 1933

RANGE: MLLW

VERT: DAT-HRZ: WA83-SF

PARCEL:

TOWNSHIP:

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

PIER 4 PHASE 2 RECONFIGURATION
ELECTRICAL DETAILS

6552
E6.1
SH 140 OF 499

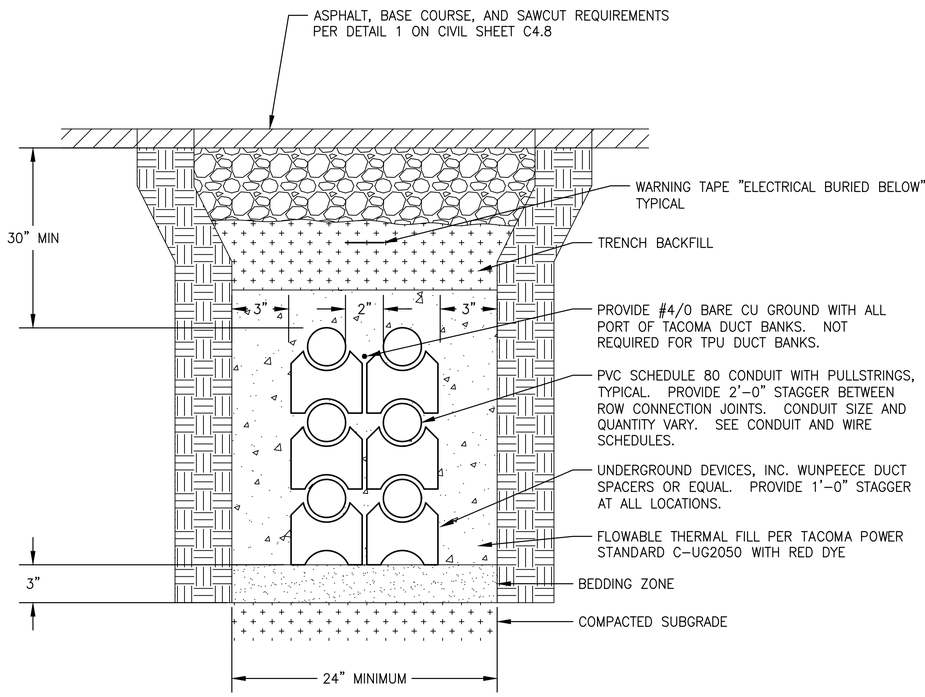
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E601

BINDING EDGE

GENERAL NOTES

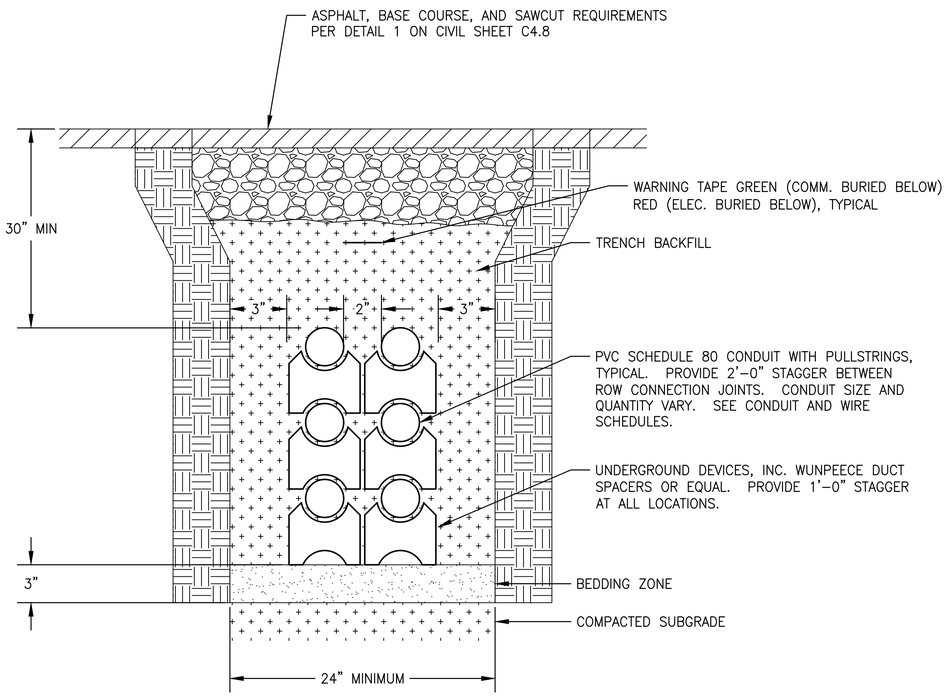
1. SEE SHEET E6.3 FOR CONDUIT SPECIFIC DUCTBANK CONFIGURATIONS.



TYPICAL 15KV CONDUIT TRENCHING

A
E3.3, E3.4, E3.5

NO SCALE



TYPICAL COMMUNICATIONS AND 600V CONDUIT TRENCHING

B
E3.3, E3.4, E3.5

NO SCALE

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E602

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5522
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE
PRINTED BY: angel Jun 28, 2018 | PROJ. ENGR DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

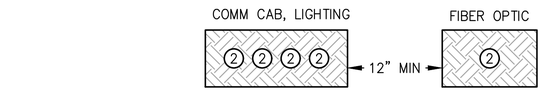
PIER 4 PHASE 2
RECONFIGURATION
ELECTRICAL DETAILS

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

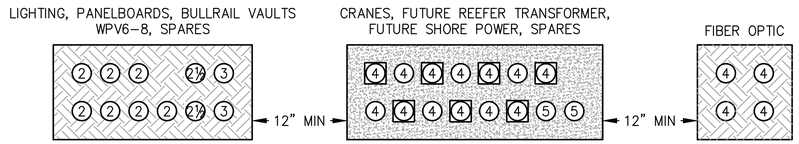
6552
E6.2
SH 141 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

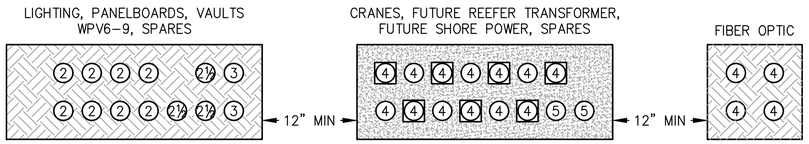
BINDING EDGE



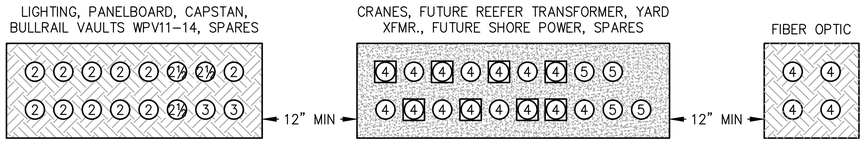
A E3.3, E3.4 **DUCTBANK SECTION** NO SCALE



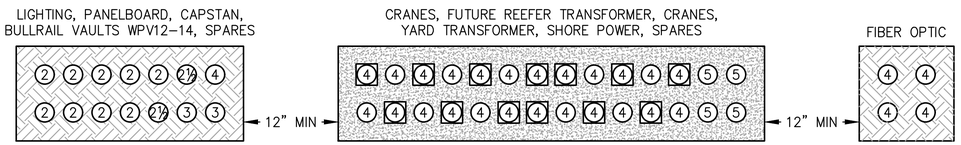
B E3.4 **DUCTBANK SECTION** NO SCALE



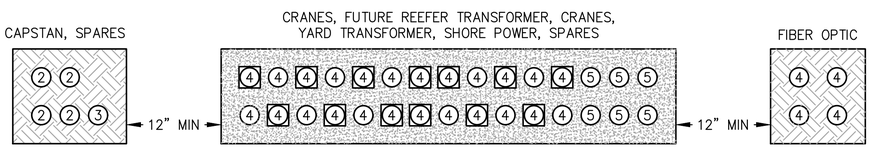
C E3.4 **DUCTBANK SECTION** NO SCALE



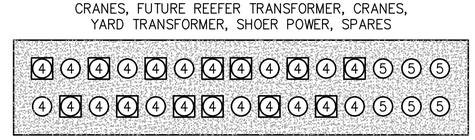
D E3.4 **DUCTBANK SECTION** NO SCALE



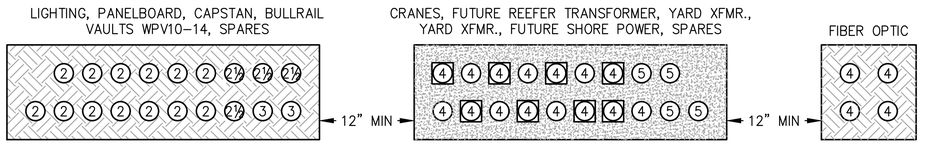
E E3.4 **DUCTBANK SECTION** NO SCALE



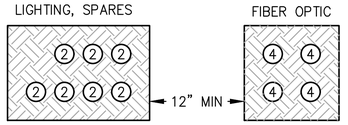
F E3.4 **DUCTBANK SECTION** NO SCALE



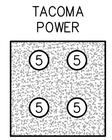
G E3.5 **DUCTBANK SECTION** NO SCALE



H E3.4 **DUCTBANK SECTION** NO SCALE



I E3.3 **DUCTBANK SECTION** NO SCALE



J E3.5, E3.6 **DUCTBANK SECTION** NO SCALE

LEGEND

- (2) CONDUIT SIZE
- □ SPARE MV CONDUIT WILL ONLY BE USED IF FAILURE OCCURS IN PRIMARY FEEDER MAKING FEEDER UNUSABLE
- MAXIMUM 1/4" SELECT FILL, COMPACTED
- FLOWABLE THERMAL FILL PER TACOMA POWER STANDARD C–UG2050

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
18300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

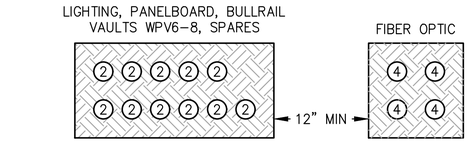
PIER 4 PHASE 2
RECONFIGURATION
DUCTBANK SECTIONS

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401–1837

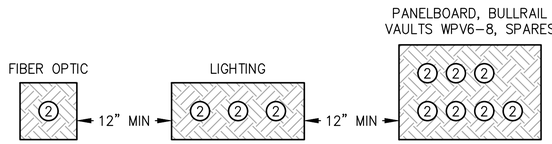
6552
E6.3
SH 142 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

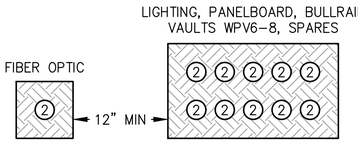
PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E603



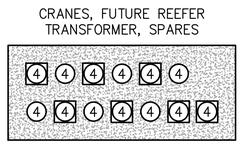
A E3.3 **DUCTBANK SECTION** NO SCALE



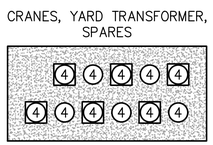
B E3.3 **DUCTBANK SECTION** NO SCALE



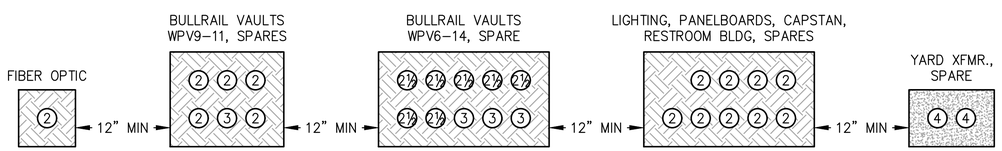
C E3.4 **DUCTBANK SECTION** NO SCALE



D E3.6 **DUCTBANK SECTION** NO SCALE



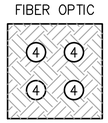
E E3.6 **DUCTBANK SECTION** NO SCALE



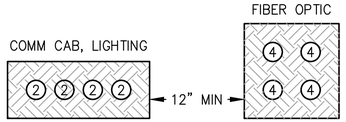
F E3.8 **DUCTBANK SECTION** NO SCALE



G E3.6 **DUCTBANK SECTION** NO SCALE



H E3.3 **DUCTBANK SECTION** NO SCALE



I E3.3 **DUCTBANK SECTION** NO SCALE

LEGEND

- (2) CONDUIT SIZE
- □ SPARE MV CONDUIT WILL ONLY BE USED IF FAILURE OCCURS IN PRIMARY FEEDER MAKING FEEDER UNUSABLE
- MAXIMUM 1/4" SELECT FILL, COMPACTED
- FLOWABLE THERMAL FILL PER TACOMA POWER STANDARD C–UG2050

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E604

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535353941

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
18300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

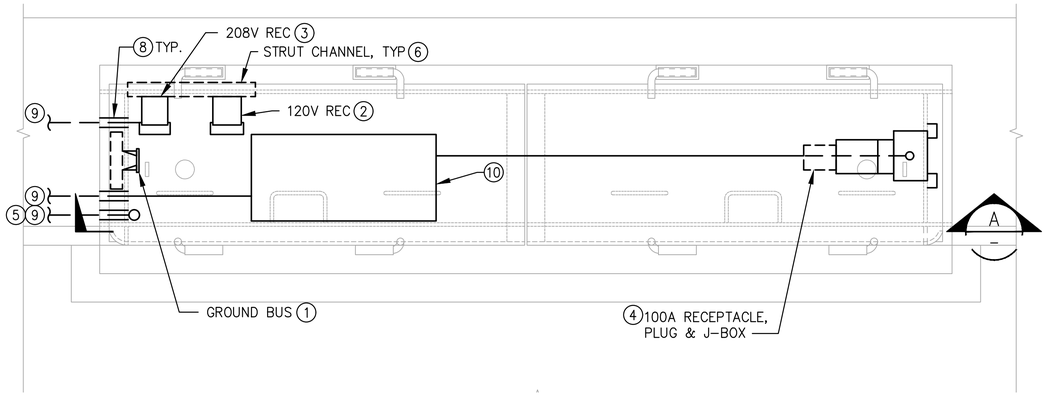
PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

PIER 4 PHASE 2
RECONFIGURATION
DUCTBANK SECTIONS

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
E6.4
SH 143 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 E3.3, E3.4, E3.5 **BULLRAIL VAULT PLAN** 1-1/2" = 1'-0"

0 1-1/2" 3' scale feet

GENERAL NOTES

1. SEE CONDUIT AND WIRE SCHEDULES ON E8 SERIES SHEETS.
2. SEE STRUCTURAL S5 SERIES DRAWINGS TO DETERMINE IF CONDUITS ENTER VAULTS AS SHOWN ON THIS SHEET OR AN "OPPOSITE" LAYOUT WITH THE INSTALLATION A MIRROR IMAGE OF THE DETAILS SHOWN ON THIS DWG.

KEYED NOTES

(1) 4"W X 1/4" THICK X 12" SOLID BARE COPPER GROUND BUS WITH (10) 7/16" DIA HOLES, 2" X 1" ON CENTER PATTERN. PROVIDE #6 CU GROUND WIRE FROM THE GROUND BUS AND ROUTED OUTSIDE THE VAULT TO GROUND LID AND FRAME, AND ANY ADDITIONAL EXPOSED METAL PARTS WITHIN VAULT.

(2) 120V, 1 PHASE, 20 AMP GFI DUPLEX RECEPTACLE WITH NEMA 3R "IN USE" COVER.

(3) 208V, 1 PHASE, 20 AMP RECEPTACLE.

(4) 100A, 480V 3 PHASE, 5 WIRE, PIN AND SLEEVE RECEPTACLE AND FOURWAY FEED THRU BACK BOX. HUBBELL #HBL5100R7W RECEPTACLE, #FW60100 J-BOX, AND #PC100 CAP.

(5) 3/4"C, #4 CU GROUND WIRE BACK TO CRANE RAIL. PROVIDE EXOTHERMIC WELD TO CRANE RAIL. PROVIDE 1#4G FROM CRANE RAIL TO CRANE CABLE SLOT.

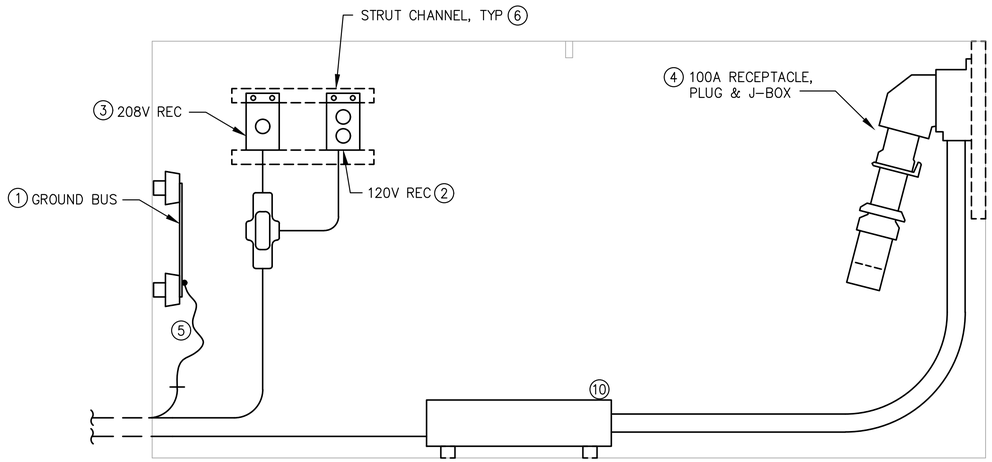
(6) TYPICAL, PROVIDE MINIMUM 1-5/8" X 1-5/8" FIBERGLASS STRUT FOR MOUNTING ALL ELECTRICAL EQUIPMENT IN VAULT. PROVIDE 316 STAINLESS STEEL DROP IN ANCHOR, FLAT WASHER AND HEX HEAD CAP SCREWS FOR MOUNTING FIBERGLASS STRUT.

(7) POWER CONNECTION AND END TERMINATION KIT WITH AMBIENT SENSING THERMOSTAT. MOUNT ADJACENT TO J-BOX.

(8) 4" PVC SCHEDULE 80 SLEEVE. GROUT AFTER INSTALLED. SEAL BETWEEN CONDUIT AND SLEEVE WITH HANDY FOAM OR EQUAL.

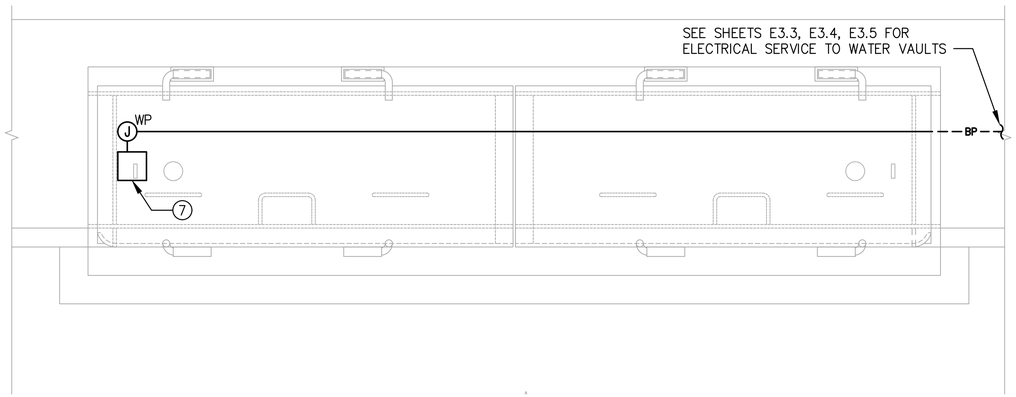
(9) SEE CONDUIT AND WIRE SCHEDULES ON E8 SERIES SHEETS.

(10) CIRCUIT BREAKER, 480V, 3 PHASE, 100 AMP.



A – **BULLRAIL VAULT SECTION** 1-1/2" = 1'-0"

0 1-1/2" 3' scale feet



2 E3.3, E3.4, E3.5 **WATER VAULT PLAN** 1-1/2" = 1'-0"

0 1-1/2" 3' scale feet

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK: REVISION: BY: APPR: DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE | PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE | PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
ELECTRICAL DETAILS

TOWNSHIP: | RANGE: | SECTION:
DAT-HRZ: WA83-SF | VERT: MLLW 19.39' @ Tide 22 1933
PARCEL: | DRAWING SCALE: AS NOTED

CONT/CONS: 0701.36
M. ID: 091251
PHASE: CONFORMED

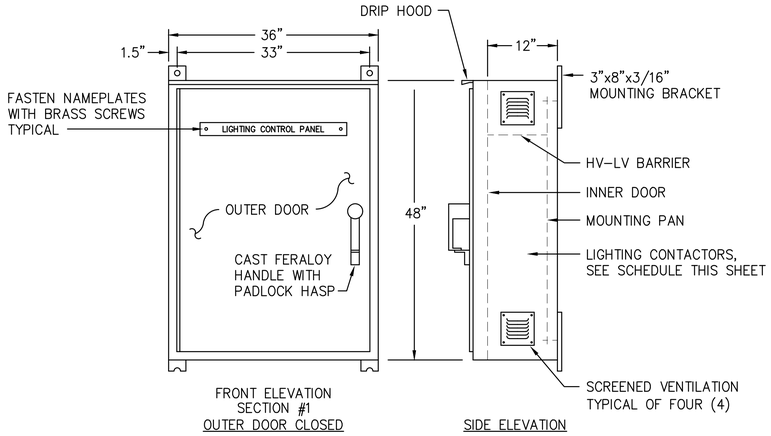
6552
E6.5
SH 144 OF 499

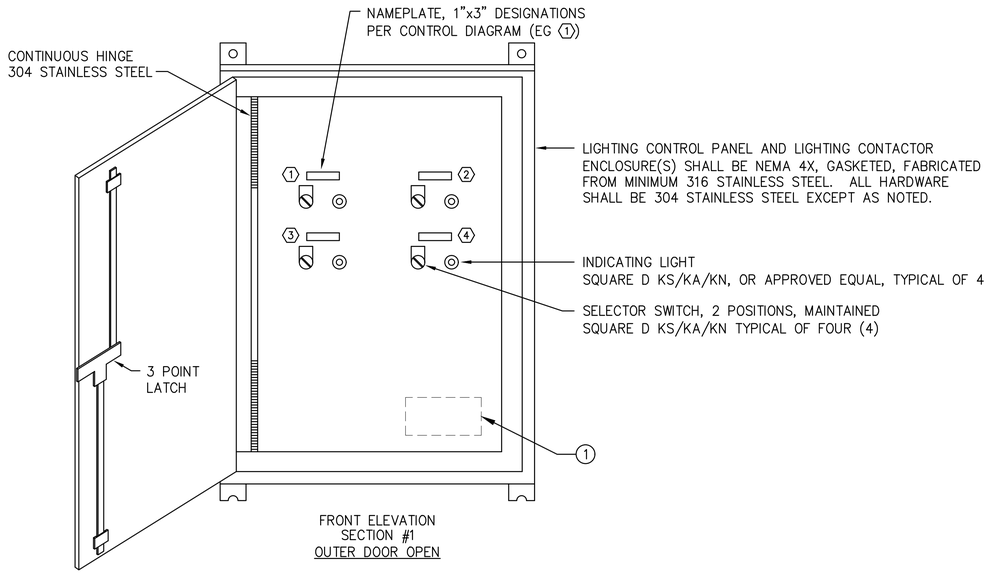
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

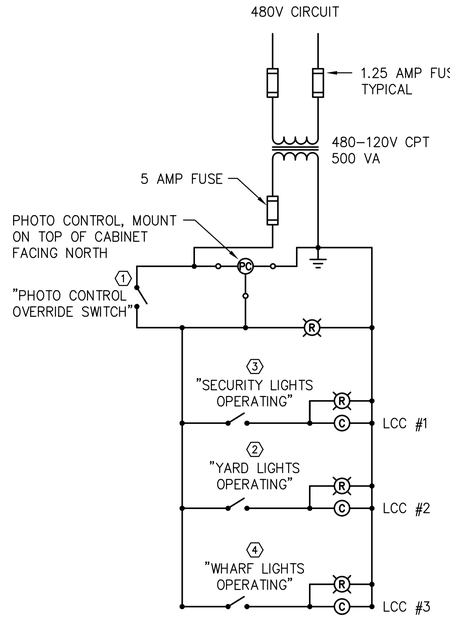
BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E605

BINDING EDGE







PIER 4 YARD LIGHTING CONTROL PANEL

1 – NO SCALE

GENERAL NOTES

1. SEE SHEET E6.19 FOR LIGHTING CONTROL CIRCUITS.

KEYED NOTES

① PROVIDE 200 WATT SELF–REGULATING INTEGRAL HEATER SET AT 42°F TO 50°F.

LIGHTING CONTACTOR SCHEDULE (480V)

(1) 100A/3P CONTACTOR – SECURITY LIGHTS
(1) 100A/3P CONTACTOR – YARD LIGHTS
(1) 100A/3P CONTACTOR – WHARF LIGHTS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401–1837
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
PIER 4 YARD LIGHTING CONTROL PANEL

TOWNSHIP:	RANGE:	SECTION:	
DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:			

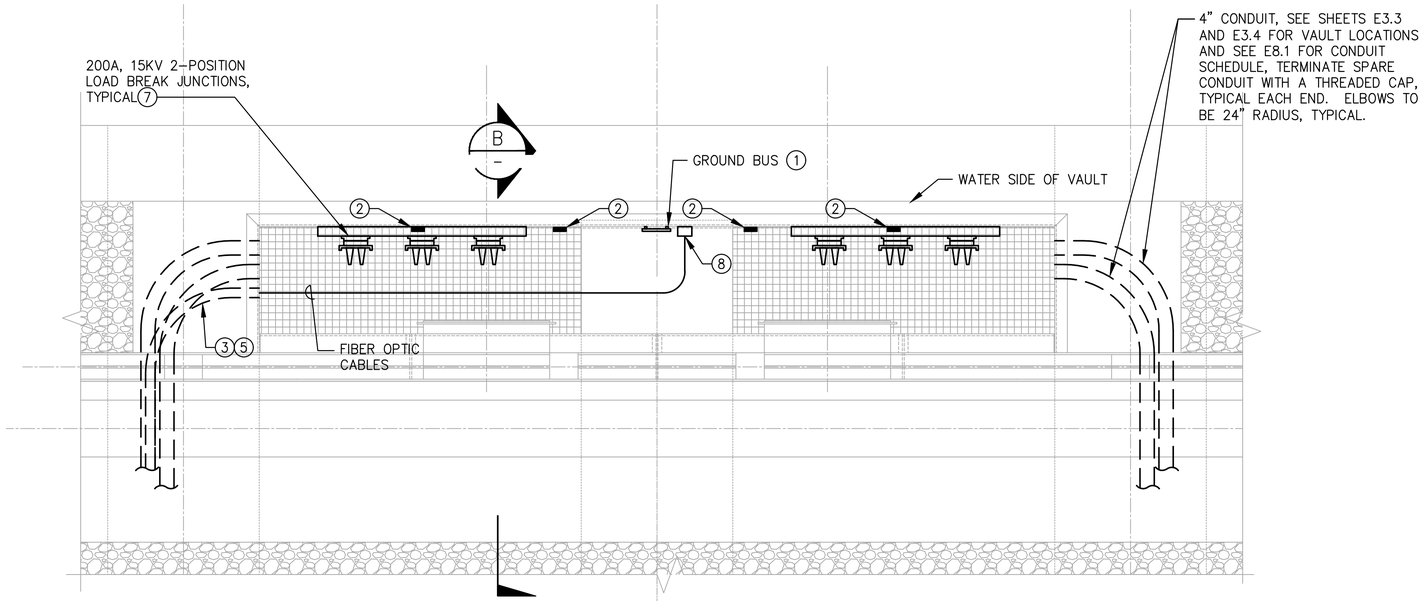
6552
E6.6
SH 145 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

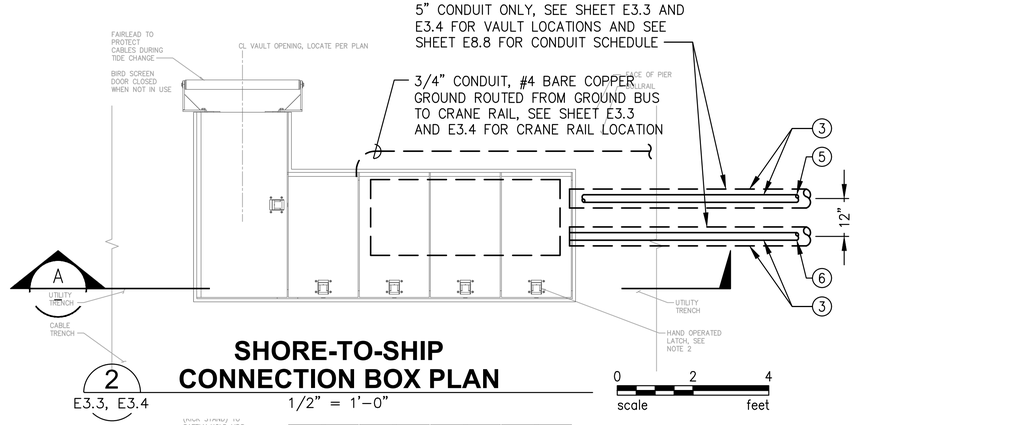
PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E606



1 CRANE POWER VAULT PLAN

E3.3, E3.4 — 1/2" = 1'–0"

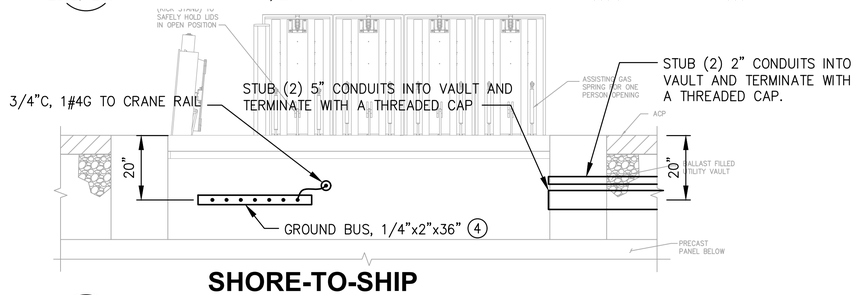
0 2 4 scale feet



2 SHORE-TO-SHIP CONNECTION BOX PLAN

E3.3, E3.4 — 1/2" = 1'–0"

0 2 4 scale feet



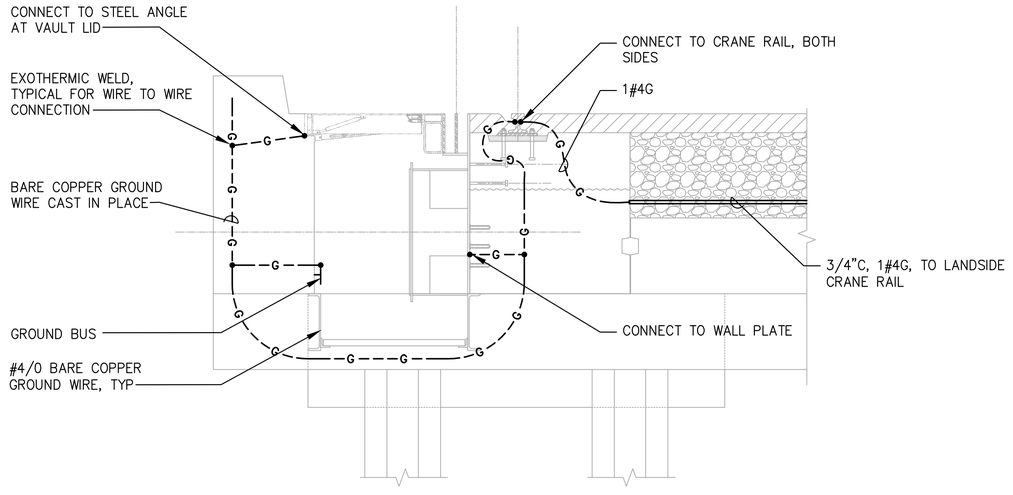
A SHORE-TO-SHIP CONNECTION BOX PLAN

1/2" = 1'–0"

0 2 4 scale feet

KEY NOTES

1. CONTRACTOR SHALL PROVIDE #4 BARE COPPER GROUND WIRE BETWEEN GROUND BUS AND TO ALL METAL PARTS (CABLE DRUM, FUNNEL BOTTOM, LIDS, FRAMES, LOAD BREAK JUNCTIONS, ETC.) IN VAULT. CADWELD GROUND WIRE(S) TO ALL METAL PARTS WHERE GROUND STUDS OR HOLES FOR BOLTING GROUND WIRE(S) IS NOT AVAILABLE. ATTACH GROUND WIRE(S) ROUTED IN VAULT TO VAULT CABLE RACKS WITH PLASTIC TIE WRAPS. PROVIDE FIELD INSTALLED CONCRETE ANCHORS FOR MOUNTING CABLE SUPPORT RACKS. GROUND BUS TO BE ERICO #EGBA14418AA, OR APPROVED EQUAL. MOUNT AT 12" ABOVE GRADE BEAM.
2. CONTRACTOR SHALL PROVIDE FIBERGLASS CABLE RACK 36" LENGTH WITHIN VAULT FOR MOUNTING ELECTRICAL EQUIPMENT. PROVIDE FIBERGLASS OR STAINLESS STEEL MOUNTING HARDWARE TO ATTACH FIBERGLASS CABLE RACKS TO VAULT WALL. PROVIDE TWO 9" ARMS/RACK.
3. STUB CONDUIT INTO VAULT AND TERMINATE WITH A THREADED CAP.
4. PROVIDE #4 AWG BARE COPPER WIRE TO ALL METAL PARTS (LIDS, FRAME, ETC.) IN VAULT. PROVIDE PVC PIPE STRAPS, MAXIMUM 24" ON CENTER TO AVOID OBSTRUCTIONS FOR ROUTING OF GROUND WIRE WITHIN VAULT. ATTACH GROUND WIRE TO PIPE STRAPS WITH PLASTIC TIE WRAPS.
5. 2" FIBER OPTIC CONDUIT TO FIBER VAULT. SEE SHEETS E3.3 AND E3.4 FOR VAULT LOCATIONS, AND SHEET E8.2 FOR CONDUIT SCHEDULE.
6. 2" SPARE CONDUIT SHORE POWER CONTROL. SEE SHEETS E3.3 AND E3.4 FOR VAULT LOCATIONS, AND SHEET E8.7 FOR CONDUIT SCHEDULE.
7. JUNCTION TO BE ADJUSTABLE TYPE SET AT 45 DEGREES UP. MOUNT AT +46" ABOVE GRATING.
8. COMMSCOPE TYPE FOSC 450 SPLICE CLOSURE, # FOSC 450–A4–2–12–1–A–1–V, OR ENGINEER APPROVED EQUAL. WALL MOUNT ON RACK ARMS ABOVE GROUND BUS.



B GROUNDING DETAIL AT CRANE VAULT

1/2" = 1'–0"

0 2 4 scale feet

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
ELECTRICAL DETAILS

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: angel Jun 28, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401–1837

6552
E6.7
SH 146 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

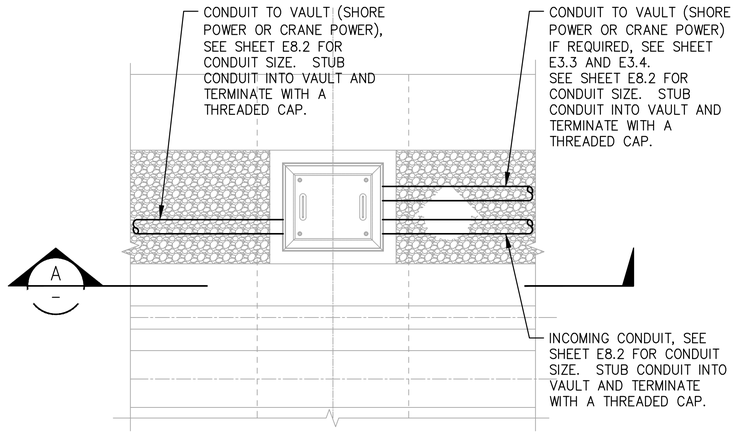
BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E607

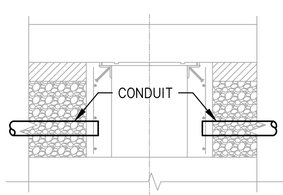
BINDING EDGE

KEY NOTES

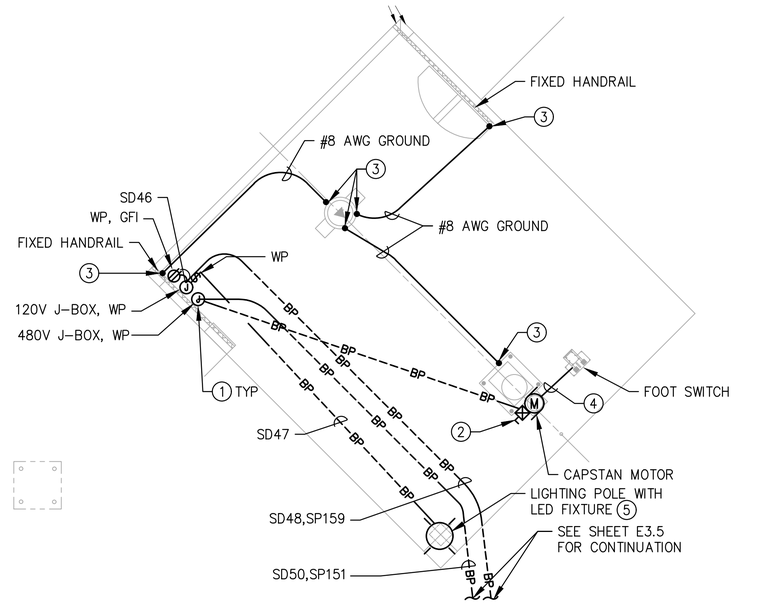
1. MOUNT EQUIPMENT AND DEVICES ON STRUT CHANNEL ANCHORED TO GUARDRAIL.
2. MOTOR STARTER FURNISHED WITH CAPSTAN MOTOR. CONTRACTOR TO INSTALL AND CONNECT.
3. USE EXOTHERMIC WELD FOR GROUND WIRE CONNECTIONS.
4. CONTRACTOR SHALL ATTACH SURFACE MOUNTED CONDUIT TO CONCRETE MOORING DOLPHIN DECK WITH STAINLESS STEEL MOUNTING HARDWARE. CONDUIT SHALL NOT BE INSTALLED UNTIL LOCATION OF FOOT SWITCH HAS BEEN FIELD VERIFIED BY THE PORT.
5. POLE MOUNTED LED FIXTURE WITH MARINE GRADE ALUMINUM POLE, 120V, FIXTURE MOUNTS DIRECTLY TO POLE TOP TENON, BLACK FINISH. WE-EF #661-6435 WITH #661-9362 POLE BRACKET, OR APPROVED EQUAL.



1 / E3.3, E3.4 **FIBER OPTIC VAULT PLAN**
1/2" = 1'-0"
0 2 4 scale feet



A / - **FIBER OPTIC VAULT SECTION AT BENT**
1/2" = 1'-0"
0 2 4 scale feet



2 / E3.5 **MOORING DOLPHIN PLAN**
1/4" = 1'-0"
0 4 8 scale feet

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E608

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5222
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY	DATE
PROJ. ENGR	DATE
DIRECTOR ENG.	DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
ELECTRICAL DETAILS

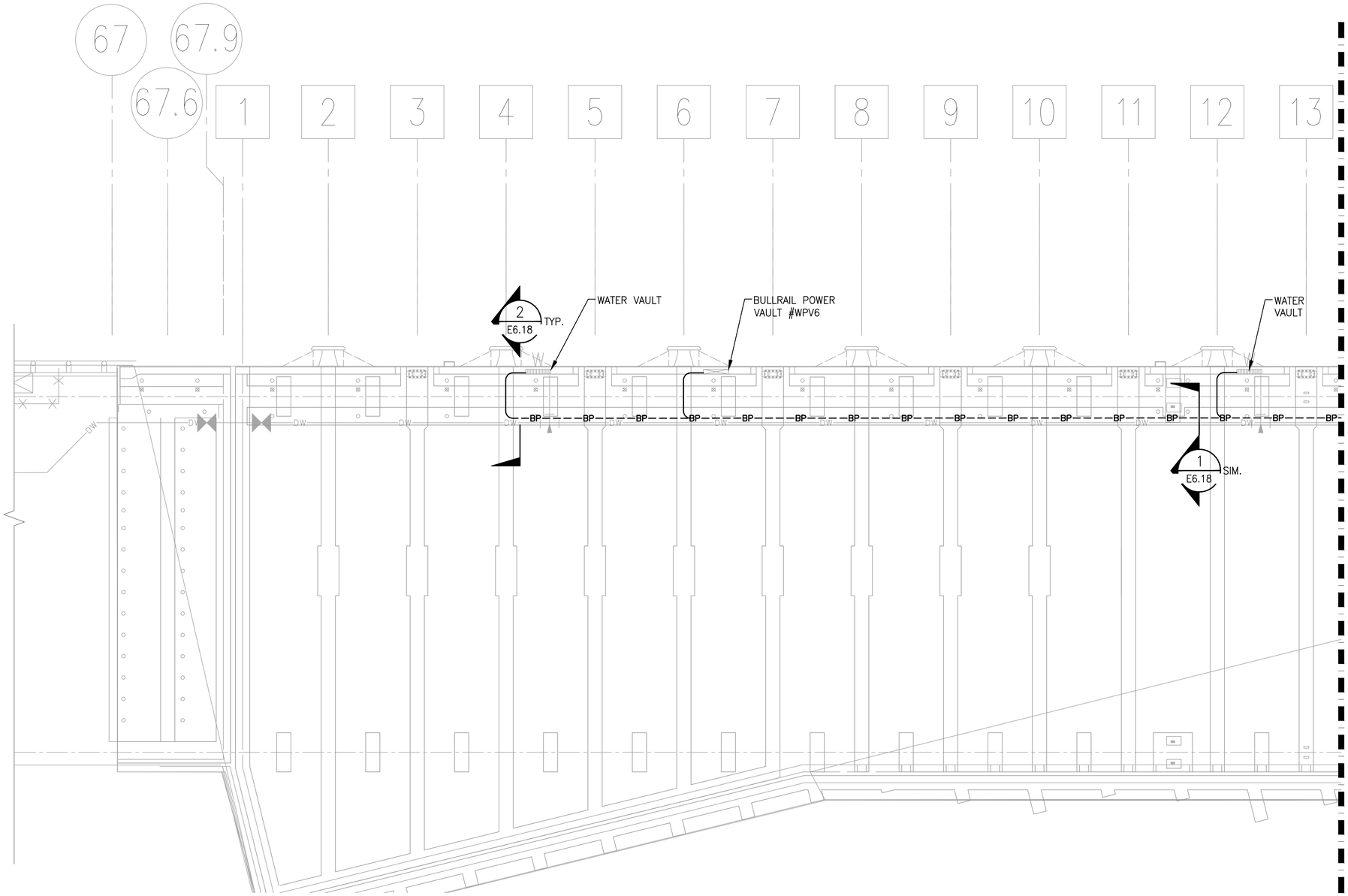
TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: angel Jun 28, 2018	
PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA	TACOMA, WA 98401-1837

6552
E6.8
SH 147 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



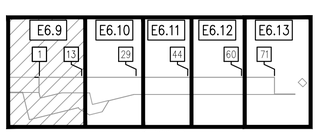
GENERAL NOTES

1. SEE E3 SERIES SHEETS FOR CONDUIT NUMBERS.

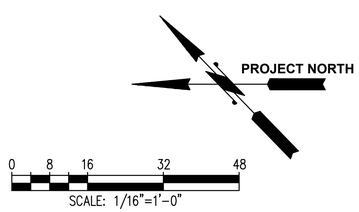
PARTIAL ELECTRICAL WHARF PLAN

1 / E6.9

SCALE: 1/16" = 1'-0"



KEYMAP



SCALE: 1/16"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\6650-041.011\Dwgs\As_Built\Phase 2\091251-E609

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PARTIAL ELECTRICAL WHARF PLAN - SHEET 1

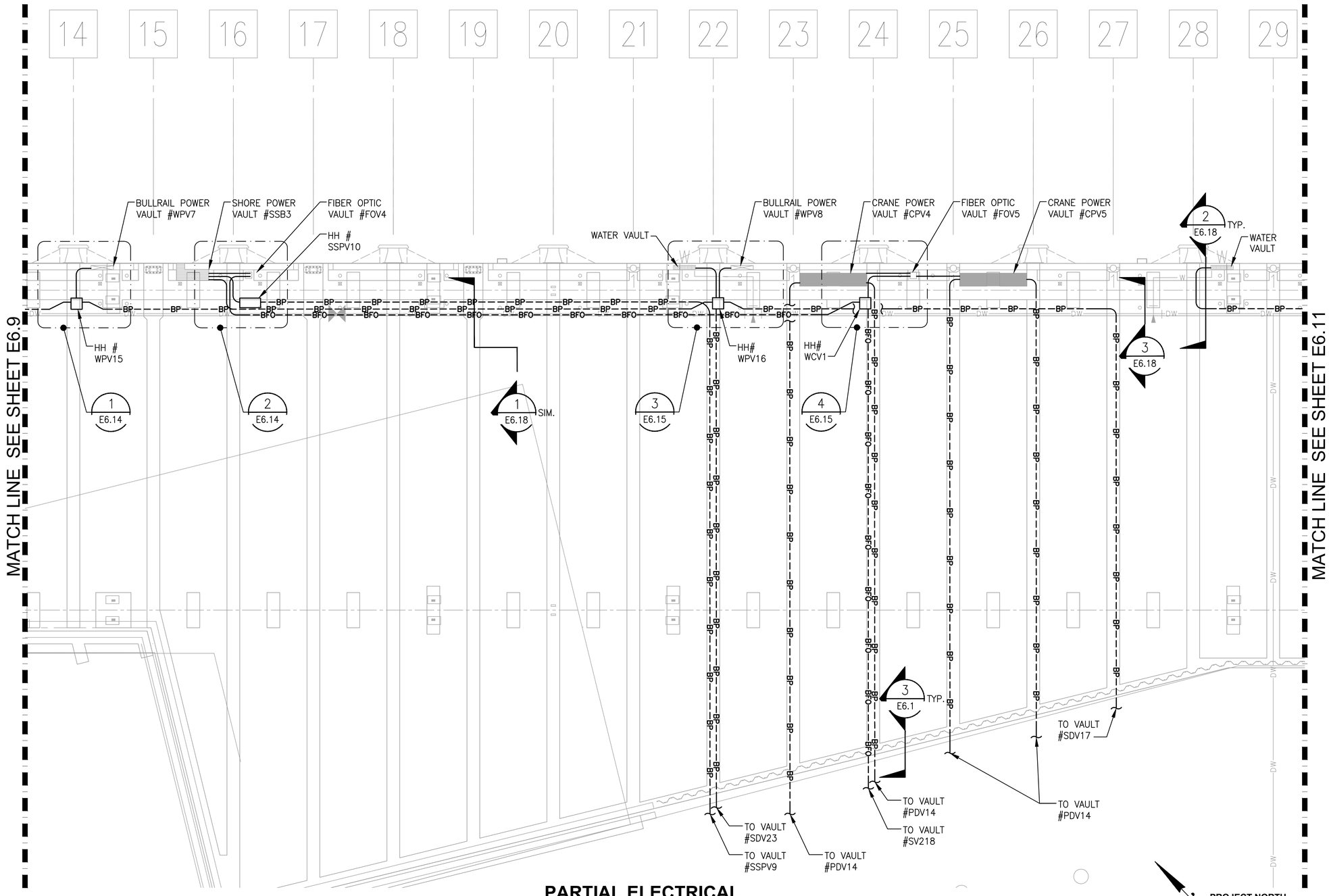
CHECKED BY	DATE
PROJ. ENGR	DATE

DIRECTOR ENG. DATE			
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: angel Jun 28, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
E6.9
SH 148 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

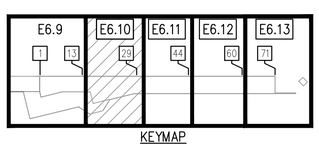
BINDING EDGE

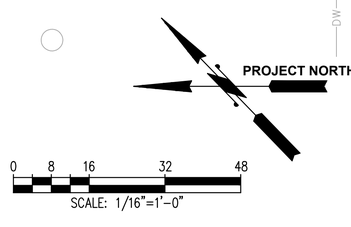


PARTIAL ELECTRICAL WHARF PLAN

1 / E6.10

SCALE: 1/16" = 1'-0"





GENERAL NOTES

1. SEE E3 SERIES SHEETS FOR CONDUIT NUMBERS.

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E610

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
PARTIAL ELECTRICAL WHARF PLAN - SHEET 2

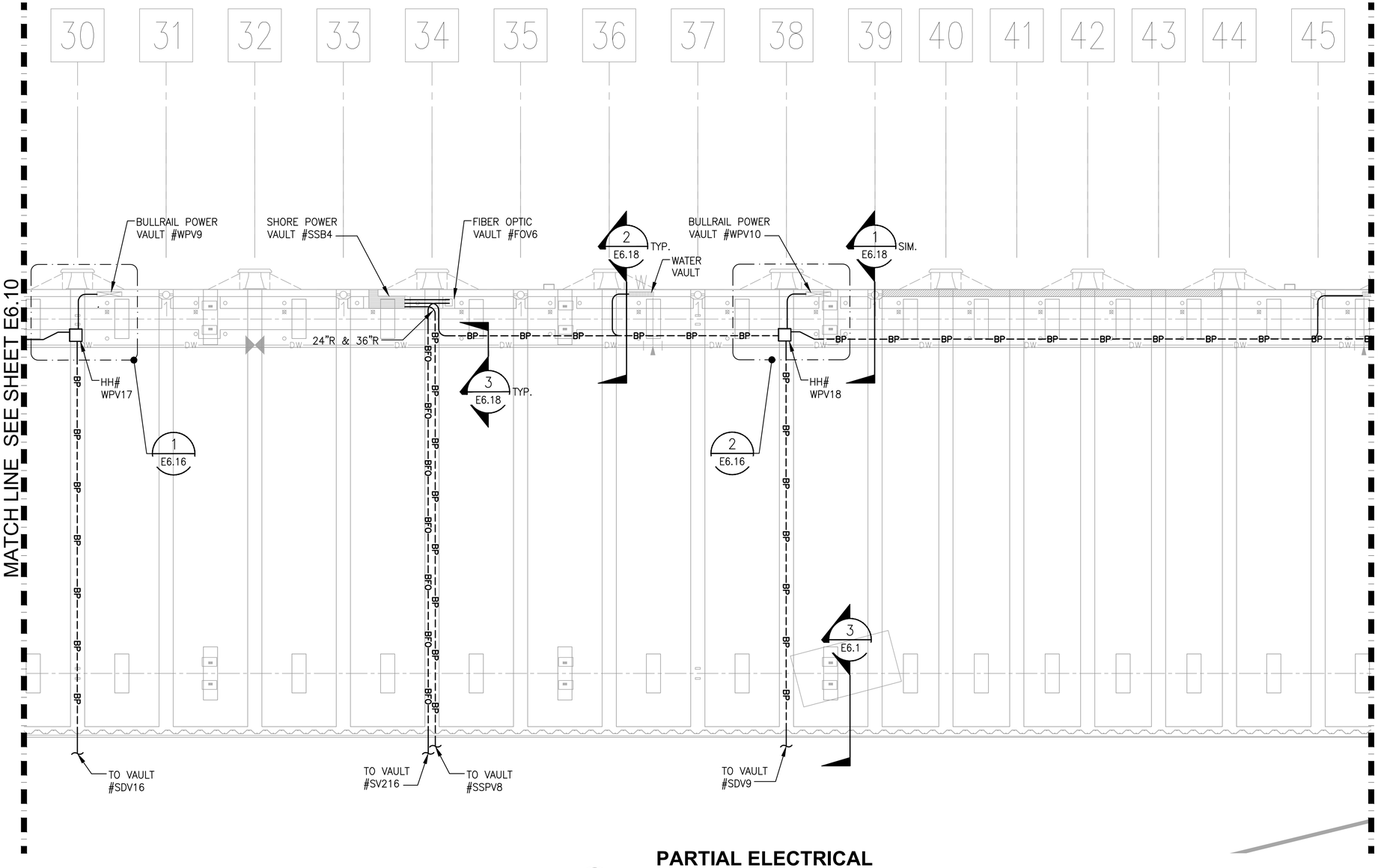
TOWNSHIP:	RANGE:	SECTION:	PRINTED BY: angel Jun 28, 2018
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA
PARCEL:	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837

6552
E6.10
SH 149 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

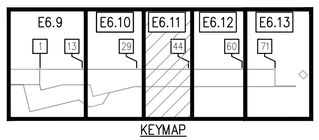


1 E6.11 PARTIAL ELECTRICAL WHARF PLAN

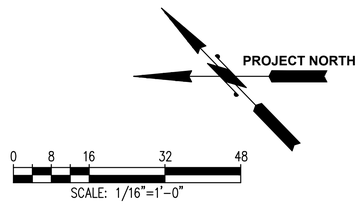
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. SEE E3 SERIES SHEETS FOR CONDUIT NUMBERS.



KEYMAP



SCALE: 1/16"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E611

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | PROJ. ENGR | DATE | CHECKED BY | DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

PARTIAL ELECTRICAL WHARF PLAN - SHEET 3

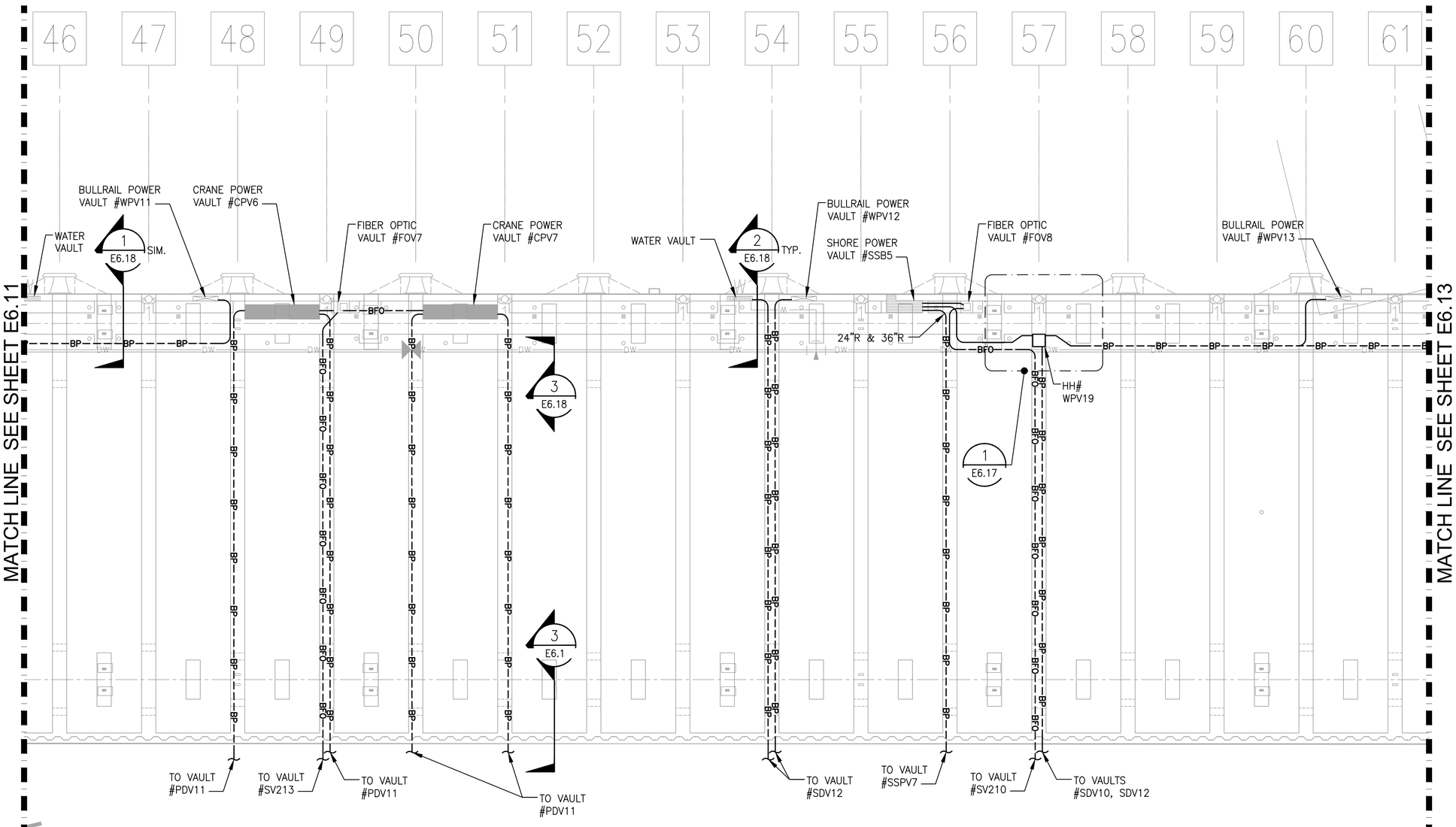
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
E6.11
SH 150 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

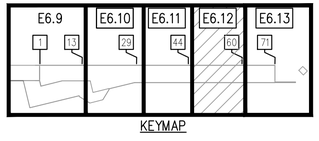


1 E6.12 PARTIAL ELECTRICAL WHARF PLAN

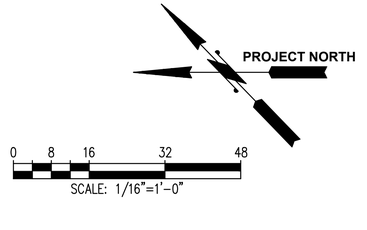
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. SEE E3 SERIES SHEETS FOR CONDUIT NUMBERS.



KEYMAP



SCALE: 1/16"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E612

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
1630 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PROJ. ENGR	DATE		

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

PARTIAL ELECTRICAL WHARF PLAN - SHEET 4

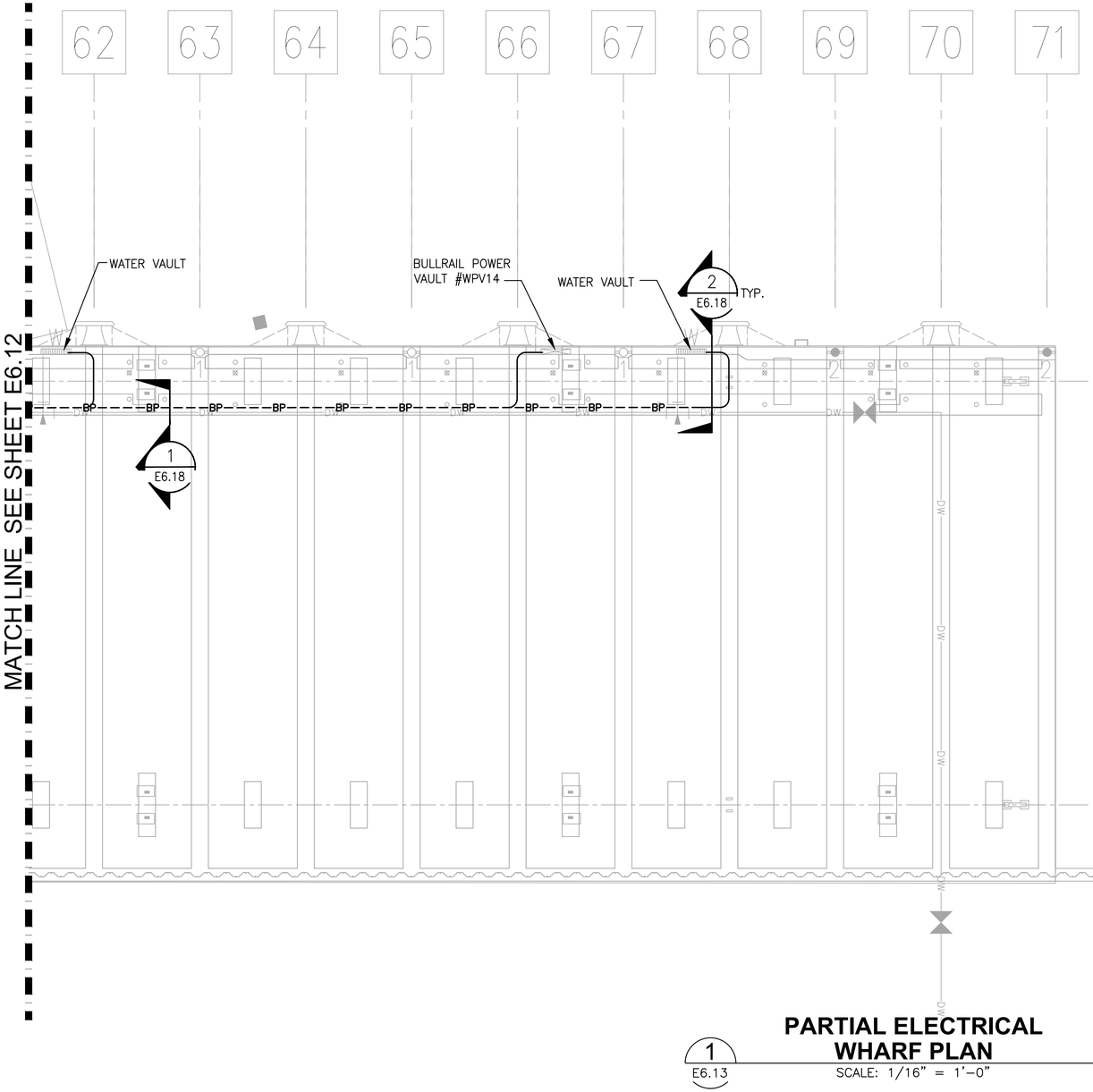
CONT/CONS:	0701136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
E6.12
SH 151 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



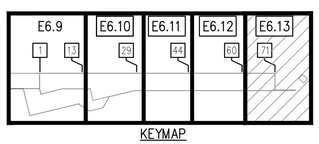
PARTIAL ELECTRICAL WHARF PLAN

1 / E6.13

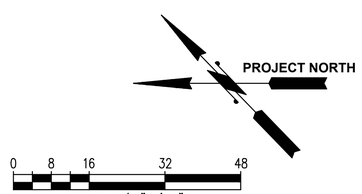
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. SEE E3 SERIES SHEETS FOR CONDUIT NUMBERS.



KEYMAP



SCALE: 1/16"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E613

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PARTIAL ELECTRICAL WHARF PLAN - SHEET 5

CHECKED BY	DATE
PROJ. ENGR	DATE

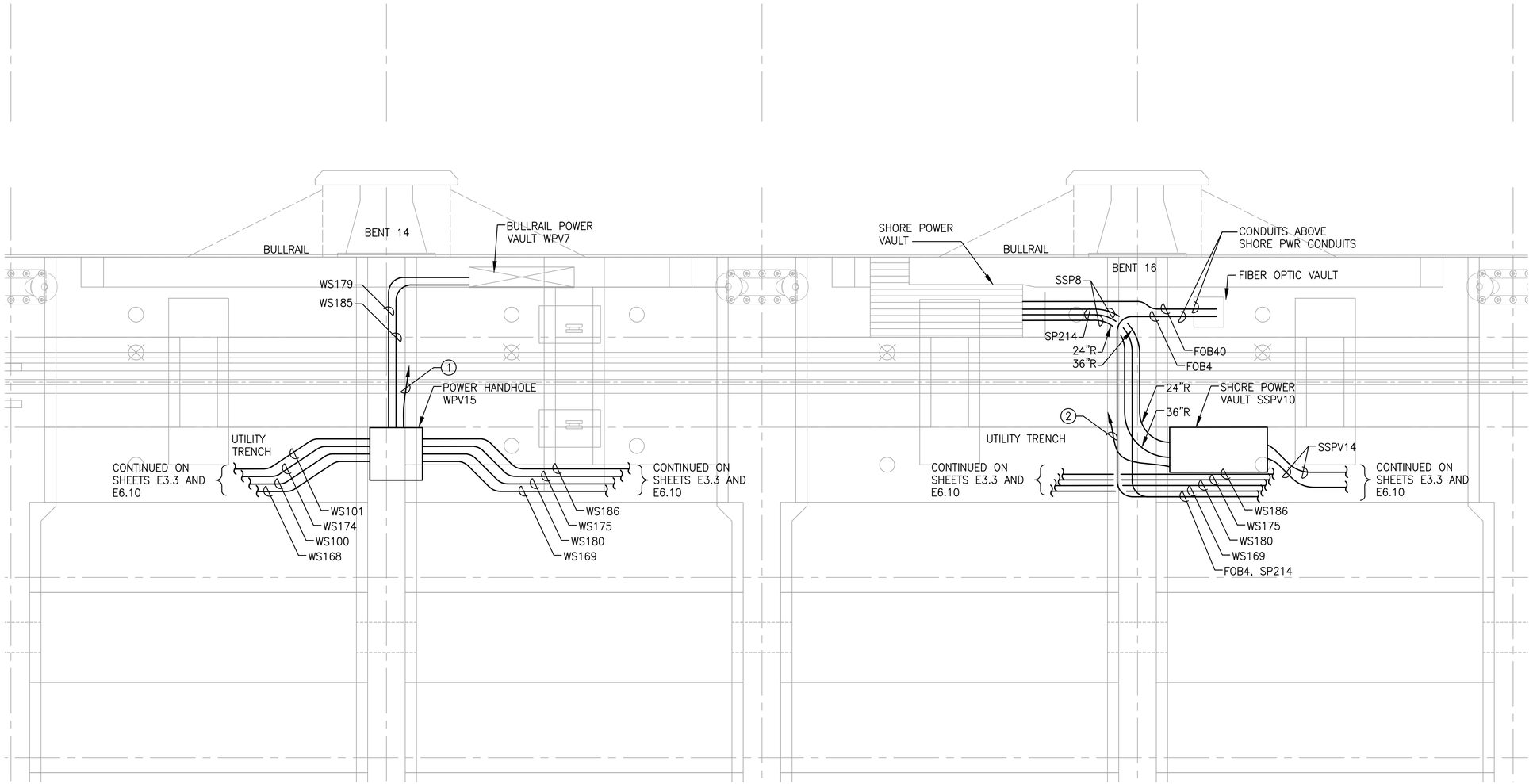
PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:

6552
E6.13
SH 152 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 ENLARGED VAULT AND UTILITY TRENCH PLAN

E6.10

SCALE: 1/4" = 1'-0"

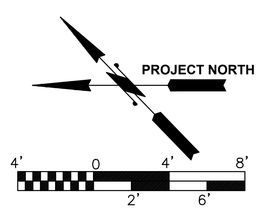
2 ENLARGED VAULT AND UTILITY TRENCH PLAN

E6.10

SCALE: 1/4" = 1'-0"

KEYED NOTES

1. 3/4"C, #4 CU GROUND WIRE TO GROUND BUS IN BULLRAIL VAULT. CONNECT TO GROUNDING INSERT IN HANDHOLE AND GROUND BUS IN VAULT.
2. 3/4"C, #4 CU GROUND WIRE TO GROUND BUS IN SHORE POWER VAULT. CONNECT TO GROUNDING INSERT IN HANDHOLE AND GROUND BUS IN VAULT.



SCALE: 1"=4'

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E614

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
ENLARGED VAULT AND UTILITY TRENCH PLANS

CHECKED BY	DATE
PROJ. ENGR	DATE

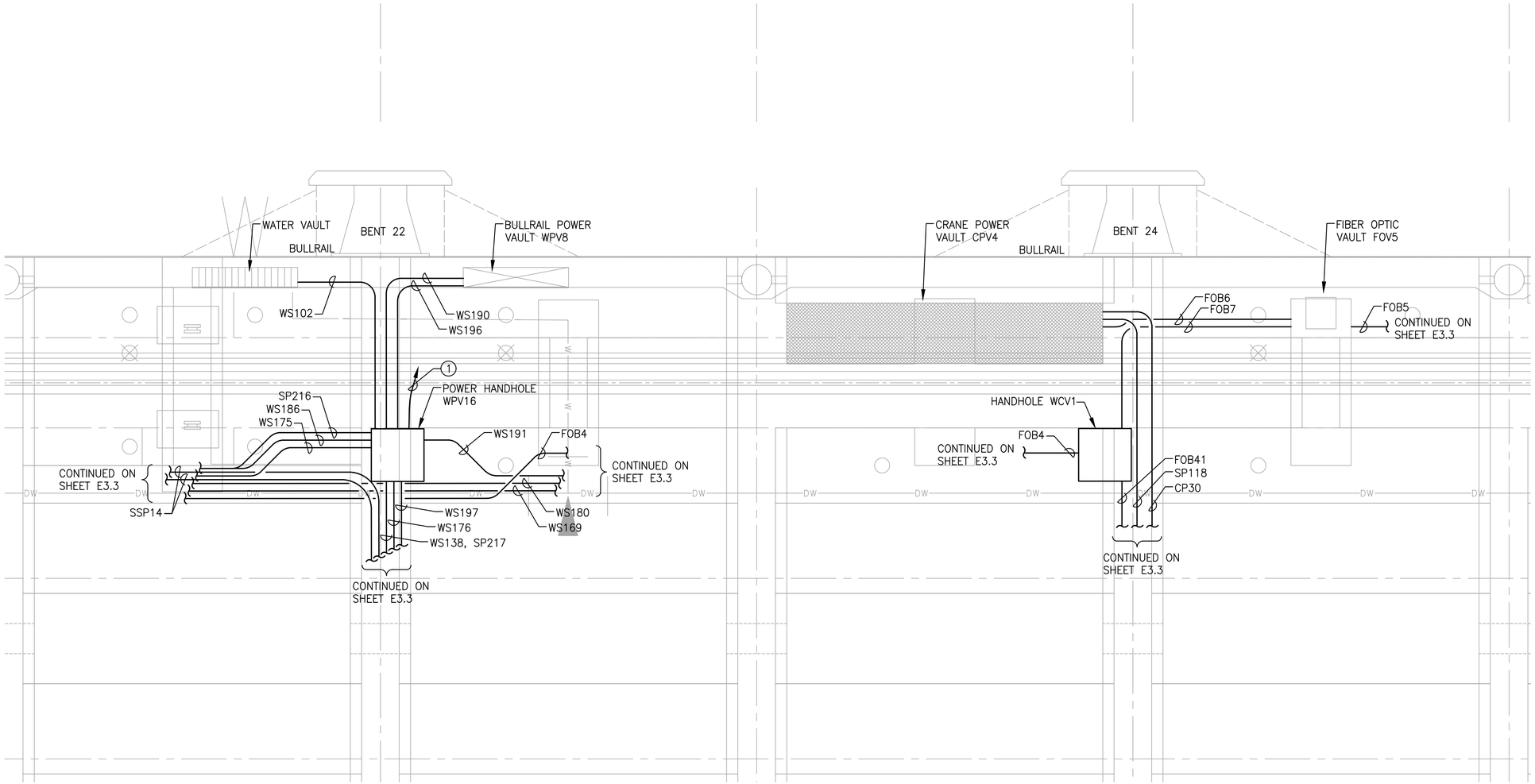
PRINTED BY: angel Jun 28, 2018

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
E6.14
SH 153 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



3 ENLARGED VAULT AND UTILITY TRENCH PLAN

E6.10 SCALE: 1/4" = 1'-0"

4 ENLARGED VAULT AND UTILITY TRENCH PLAN

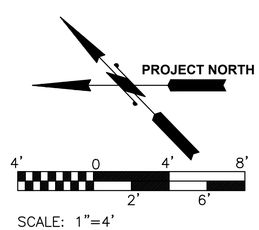
E6.10 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEETS E6.22 FOR CONDUIT ROUTING IN PILE CAPS.

KEYED NOTES

(1) 3/4"C, #4 CU GROUND WIRE TO GROUND BUS IN BULLRAIL VAULT. CONNECT TO GROUNDING INSERT IN HANDHOLE AND GROUND BUS IN VAULT.



SCALE: 1"=4'

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E615

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837/(253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5222
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

SECTION:

RANGE:

VERT: MLLW 19.39' @ Tide 22 1933

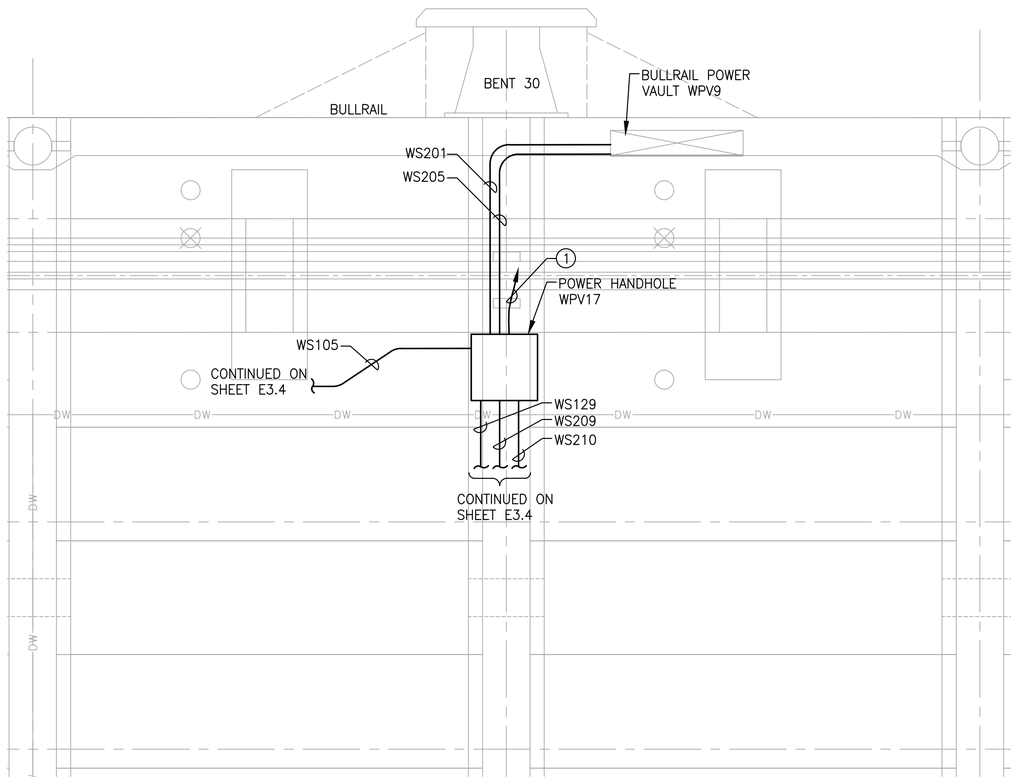
PIER 4 PHASE 2
RECONFIGURATION
ENLARGED VAULT AND UTILITY TRENCH PLANS

6552
E6.15
SH 154 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

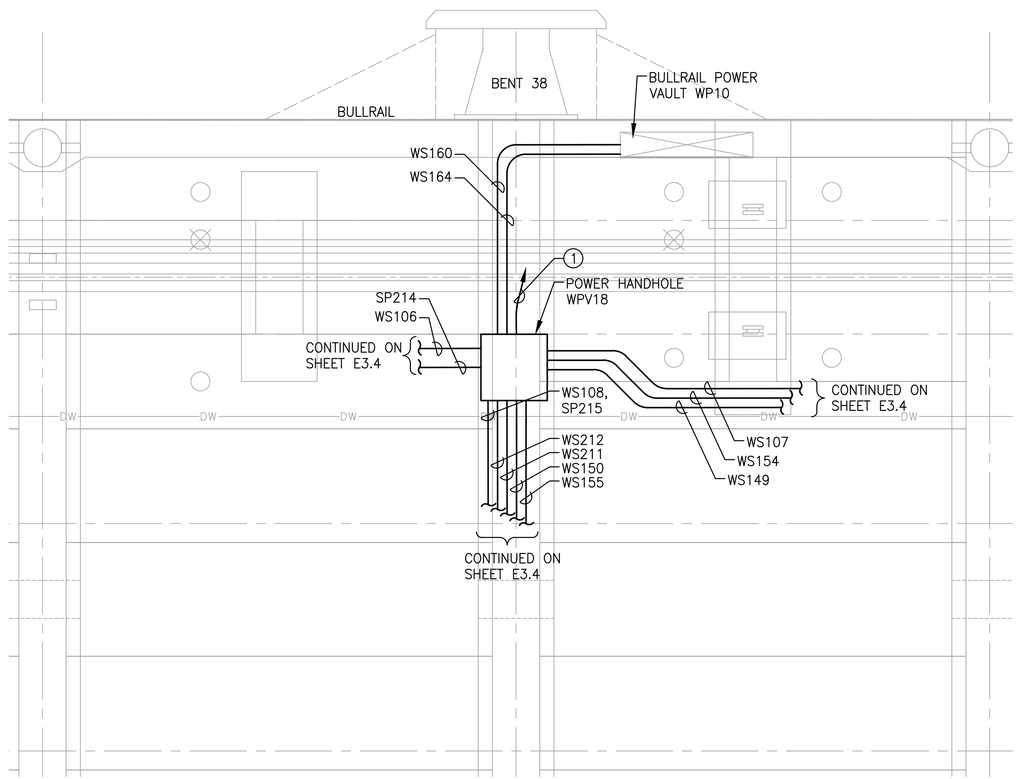
TOWNSHIP:
DAT-HRZ: WA83-SF
PARCEL:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 ENLARGED VAULT AND UTILITY TRENCH PLAN

E6.11 SCALE: 1/4" = 1'-0"



2 ENLARGED VAULT AND UTILITY TRENCH PLAN

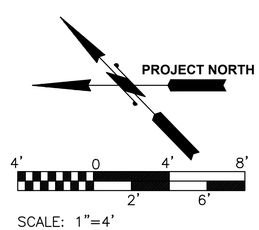
E6.11 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEETS E6.22 FOR CONDUIT ROUTING IN PILE CAPS.

KEYED NOTES

(1) 3/4"C, #4 CU GROUND WIRE TO GROUND BUS IN BULLRAIL VAULT. CONNECT TO GROUNDING INSERT IN HANDHOLE AND GROUND BUS IN VAULT.



SCALE: 1"=4'

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E616

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PRINTED BY: angel	Jun 28, 2018	PROJ. ENGR	DATE
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			

PIER 4 PHASE 2 RECONFIGURATION

ENLARGED VAULT AND UTILITY TRENCH PLANS

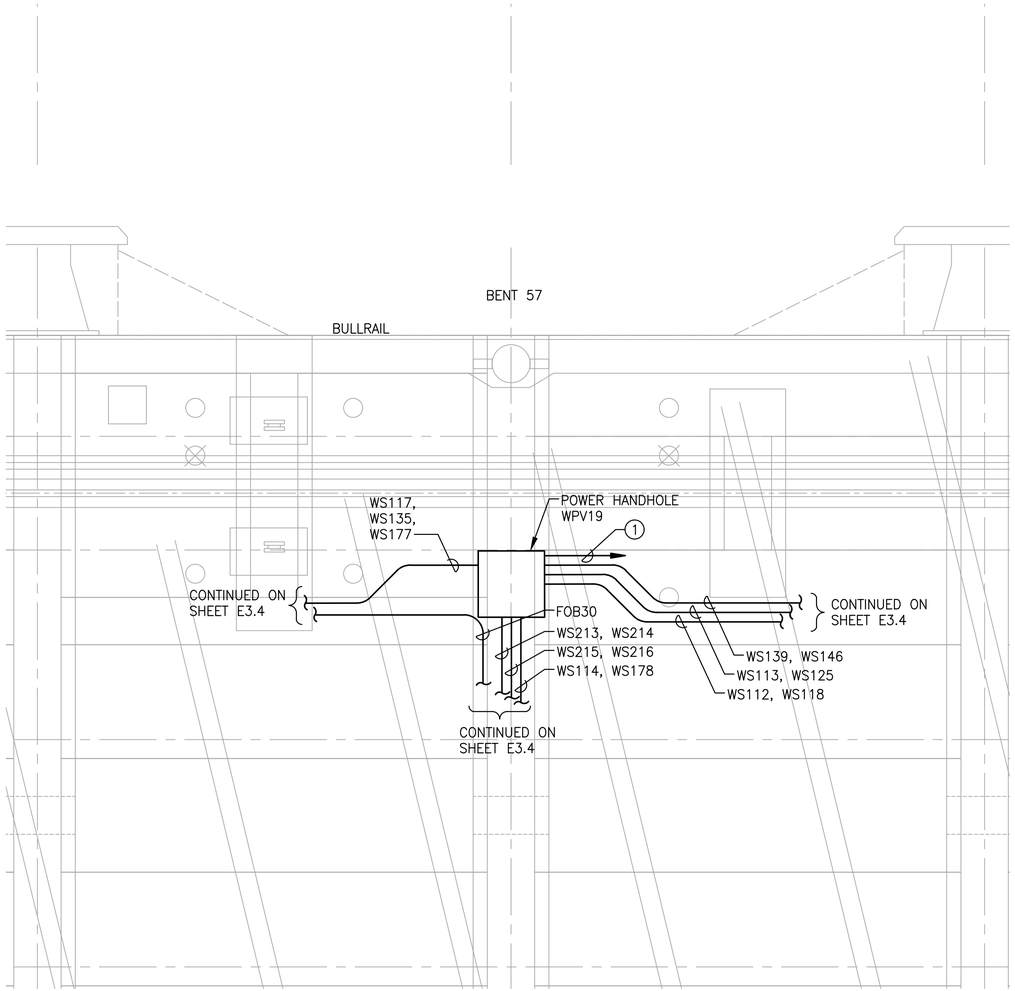
CONT/CONS:	070136	TOWNSHIP:		RANGE:		SECTION:	
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933	DRAWING SCALE:	AS NOTED
PHASE:	CONFORMED	PARCEL:					

6552

E6.16

SH 155 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



ENLARGED VAULT AND UTILITY TRENCH PLAN

1 / E6.12

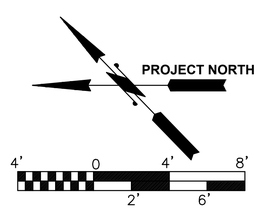
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEETS E6.23 FOR CONDUIT ROUTING IN PILE CAPS.

KEYED NOTES

(1) 3/4"C, #4 CU GROUND WIRE TO GROUND BUS IN BULLRAIL VAULT WPU13. CONNECT TO GROUNDING INSERT IN HANDHOLE AND GROUND BUS IN VAULT. SEE SHEET E3.4 FOR VAULT WPV13 LOCATION.



SCALE: 1"=4'

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E617

BINDING EDGE

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

ENLARGED VAULT AND UTILITY TRENCH PLAN

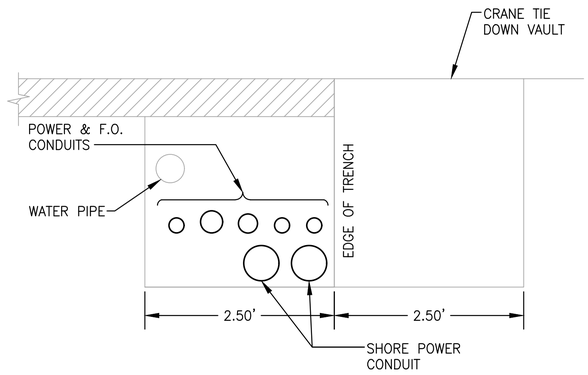
CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION:			

6552
E6.17
SH 156 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

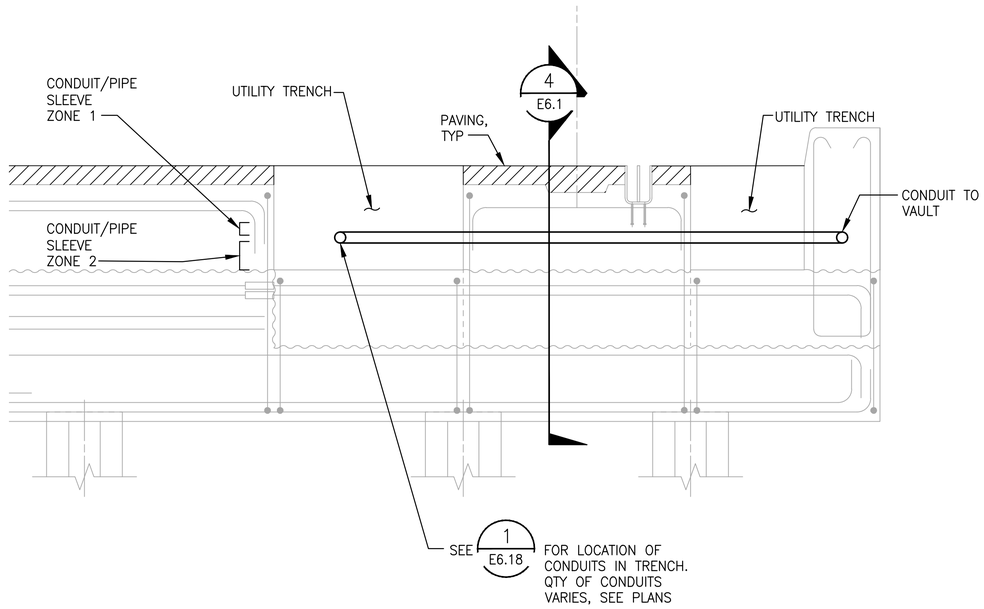
UTILITY TRENCH AT TIE DOWN (BENT 18.5)



1 / E6.9–E6.13 **UTILITY TRENCH SECTION**

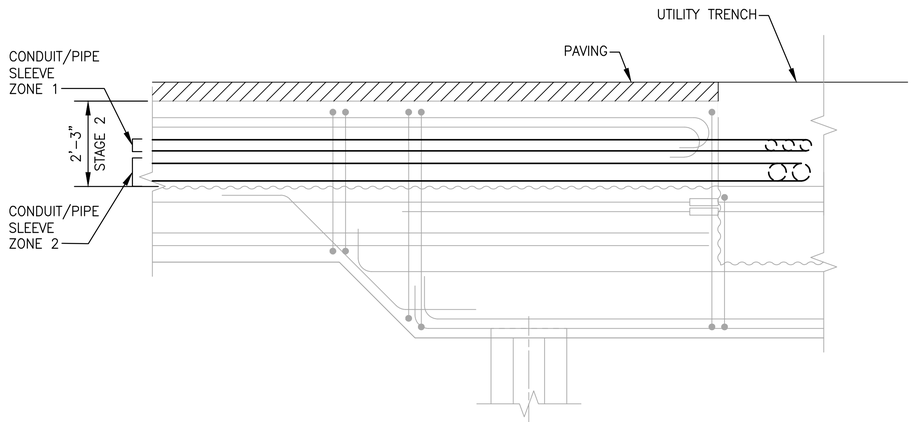
SCALE: 1" = 1'–0"

0 1 2
scale feet



2 / E6.9–E6.13 **SECTION THROUGH WATERSIDE CRANE BEAM**

SCALE: NTS



3 / E6.10–E6.12 **CONDUIT EXITING TRENCH INTO PILE CAP**

SCALE: NTS

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

DRAWING SCALE: AS NOTED

SECTION: 19.39' @ Tide 22 1933

RANGE:

VERT: MLLW

PARCEL:

TOWNSHIP:

DAT–HRZ: WA83–SF

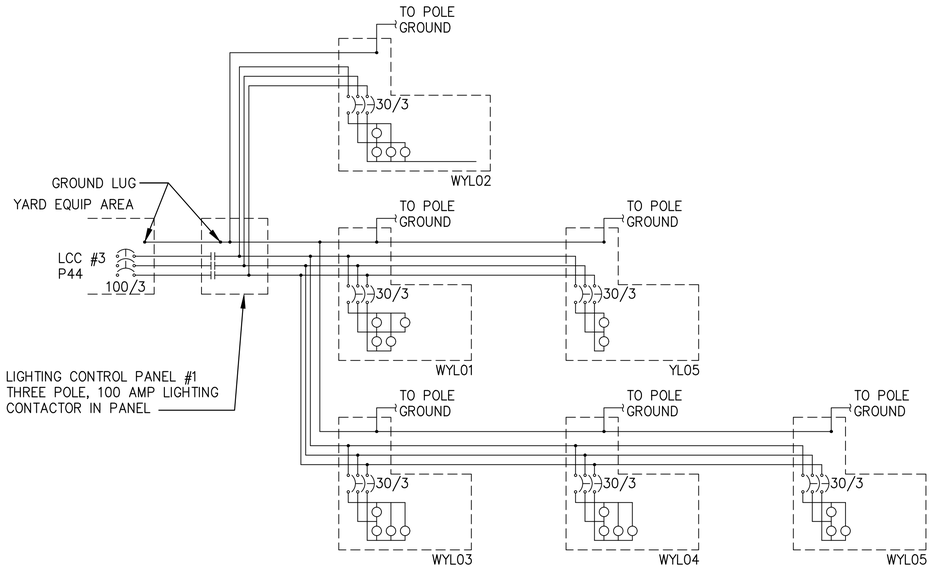
PIER 4 PHASE 2
RECONFIGURATION
UTILITY TRENCH / PILE CAP SECTIONS

6552
E6.18
SH 157 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

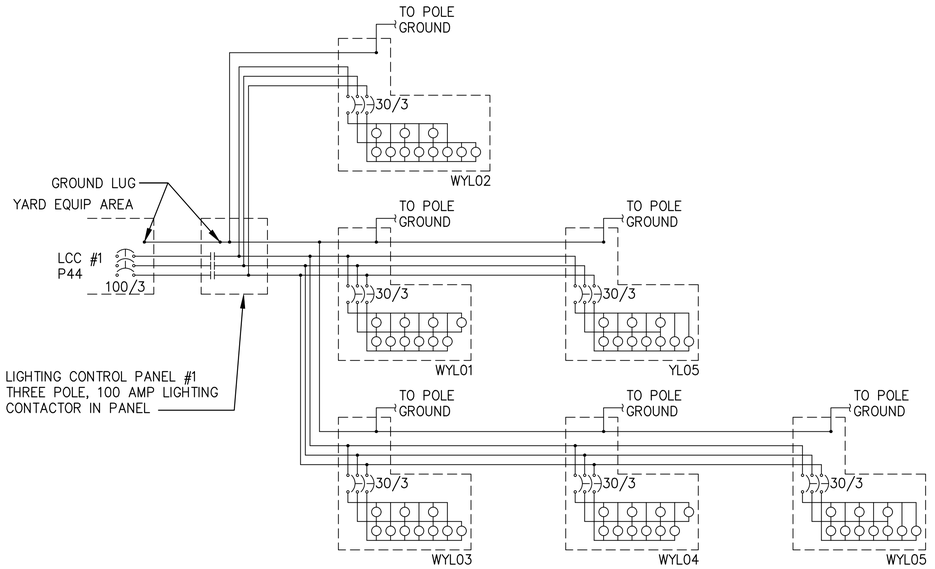
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E618



LIGHTING CONTROL CIRCUIT #3- SECURITY LIGHTS

1 – NO SCALE

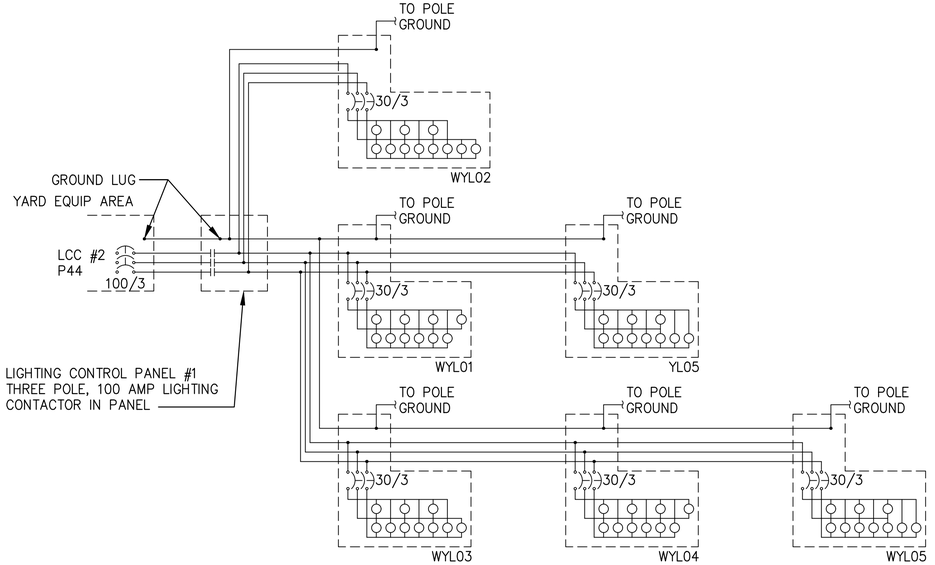


LIGHTING CONTROL CIRCUIT #1- WHARF LIGHTS

2 – NO SCALE

GENERAL NOTES

1. ALL WIRE SPLICES SHOWN ARE OT BE LOCATED IN VAULTS AND SHALL BE WATERTIGHT.



LIGHTING CONTROL CIRCUIT #2- YARD LIGHTS

3 – NO SCALE

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\DwgsAs_Built\Phase 2\091251-E619

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5522
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

CONT/CONS:	070136	TOWNSHIP:	RANGE:
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION:

PIER 4 PHASE 2 RECONFIGURATION

LIGHTING CONTROL DIAGRAMS

6552

E6.19

SH 158 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

VAULTS AND HANDHOLE SCHEDULE

NO.	DWG NO.	VOLTAGE	COORDINATES NORTH	COORDINATES EAST	MIN INT "REQ	INT DIM L	INT DIM W	INT DIM D	H2 Precast / UV Cat No.	CONDUIT QUANTITIES PER WALL NORTH	EAST	SOUTH	WEST	COVER ID	NOTES
CPV4	E3.3, E6.7	MEDIUM								(2)4"		(1)2", (2)4"		ELECTRIC	1,2,4
CPV5	E3.3, E6.7	MEDIUM								(1)2", (2)4"		(2)4"		ELECTRIC	1,2,4
CPV6	E3.4, E6.7	MEDIUM								(2)4"		(1)2", (2)4"		ELECTRIC	1,2,4
CPV7	E3.4, E6.7	MEDIUM								(1)2", (2)4"		(2)4"		ELECTRIC	1,2,4
FOV4	E3.3, E6.8	FIBER								(2)2"				COMMUNICATIONS	1,2,4
FOV5	E3.3, E6.8	FIBER								(2)2"		(1)2"		COMMUNICATIONS	1,2,4
FOV6	E3.4, E6.8	FIBER								(2)2"				COMMUNICATIONS	1,2,4
FOV7	E3.4, E6.8	FIBER								(2)2"		(1)2"		COMMUNICATIONS	1,2,4
FOV8	E3.4	FIBER								(2)2"				COMMUNICATIONS	1,2,4
PDV10	E3.4	MEDIUM	712604.91	1167153.46	52	6'-4"	6'-4"	6-7"	777-LA	(11)4"		(11)4"		ELECTRIC	1,2
PDV11	E3.4	MEDIUM	712745.83	1167004.48	59	6'-4"	6'-4"	6-7"	777-LA	(6)4"	(2)4"	(13)4"		ELECTRIC	1,2
PDV12	E3.4	MEDIUM	713053.35	1166689.30	55	6'-4"	6'-4"	6-7"	777-LA			(2)4"	(2)4"	ELECTRIC	1,2
PDV13	E3.4	MEDIUM	712627.75	1167121.86	52	6'-4"	6'-4"	6-7"	777-LA	(13)4"		(13)4"		ELECTRIC	1,2
PDV14	E3.3	MEDIUM	713142.26	1166587.25	59	6'-4"	6'-4"	6-7"	777-LA	(11) 4"	(2)4"	13(4")		ELECTRIC	1,2
PDV15	E3.5	MEDIUM	712045.35	1167782.66	52	6'-4"	6'-4"	6-7"	777-LA	(11)4"		(11)4"		ELECTRIC	1,2
PDV16	E3.5	MEDIUM	712038.57	1167775.92	52	6'-4"	6'-4"	6-7"	777-LA	(13)4"		(13)4"		ELECTRIC	1,2
SDV7	E3.4, E3.8	LOW	713019.66	1166672.99	24	4'-2"	6'-6"	6'-0"	577-LA		(16)2", (7)2 1/2", (7)3"	(10)2"	(9)2", (7)2 1/2", (2)3"	ELECTRIC	1,2
SDV8	E3.4	LOW	713035.80	1166686.33	33X36	4'-2"	6'-6"	6'-0"	577-LA	(8)2", (3)2 1/2", (2)3"		(13)2", (4)2 1/2", (2)3"	(15)2", (7)2 1/2", (3)3"	ELECTRIC	1,2
SDV9	E3.4	LOW	712927.27	1166800.69	29X17	4'-2"	6'-6"	4'-0"	575-LA	(13)2", (4)2 1/2", (2)3"	(4)2", (2)2 1/2"	(10)2", (2)2 1/2", (2)3"	(2)2"	ELECTRIC	1,2
SDV10	E3.4	LOW	712816.79	1166915.01	31X17	4'-2"	6'-6"	4'-0"	575-LA	(10)2", (2)2 1/2", (2)3"	(1)2", (1)2 1/2"	(9)2", (2)2 1/2", (2)2"	(3)2"	ELECTRIC	1,2
SDV11	E3.4	LOW	712801.55	1166896.09	16	3'-0"	2'-0"	2'-8"	233-LA		(4)2"		(4)2"	ELECTRIC	1,2
SDV12	E3.4	LOW	712613.76	1167124.04	31X18	4'-2"	6'-6"	6'-0"	577-LA	(9)2", (3)2 1/2", (2)3", (1)4"	(5)2", (1) 2 1/2", (1)3"	(4)2", (1)3"	(11)2"	ELECTRIC	1,2
SDV13	E3.4	LOW	712595.22	1167112.25	16	3'-0"	2'-0"	2'-8"	233-LA		(11)2"	(8)2"	(3)2"	ELECTRIC	1,2
SDV14	E3.5	LOW	712457.60	1167285.89	20X20	3'-0"	2'-0"	2'-8"	233-LA	(4)2", (1)3"	(2)2"			ELECTRIC	1,2
SDV15	E3.5	LOW	712327.17	1167528.62	14X14	3'-0"	2'-0"	2'-8"	233-LA	(2)2"	(4)2"	(2)2"		ELECTRIC	1,2
SDV16	E3.4	LOW	713067.27	1166656.96	28	4'-2"	6'-6"	4'-0"	575-LA	(7)2", (2)2 1/2", (2)3"	(2)2", (1)2 1/2"	(8)2", (3)2 1/2", (2)3"		ELECTRIC	1,2
SDV17	E3.3	LOW	713120.77	1166601.35	29	4'-2"	6'-6"	4'-0"	575-LA	(7)2"	(2)2 1/2", (1)3"	(7)2", (3)2 1/2", (2)3"		ELECTRIC	1,2
SDV18	E3.3	LOW	713189.35	1166462.43	24	3'-0"	2'-0"	2'-8"	233-LA	(10)2"	(10)2"		(7)2"	ELECTRIC	1,2
SDV19	E3.3	LOW	713335.74	1166233.90	14	3'-0"	2'-0"	2'-8"	233-LA	(7)2"	(4)2"	(7)2"		ELECTRIC	1,2
SDV20	E3.3	LOW	713367.42	1166280.20	16	3'-0"	2'-0"	2'-8"	233-LA		(4)2"		(4)2"	ELECTRIC	1,2
SDV21	E3.3	LOW	713506.58	1165981.53	14	3'-0"	2'-0"	2'-8"	233-LA		(4)2"	(7)2"		ELECTRIC	1,2
SDV22	E3.3	LOW	713623.27	1166025.26	14	3'-0"	2'-0"	2'-8"	233-LA			(4)2"	(4)2"	ELECTRIC	1,2
SDV23	E3.3	LOW	713205.91	1166513.62	29	4'-2"	6'-6"	4'-0"	575-LA		(4)2"	(10)2"	(10)2"	ELECTRIC	1,2
SSB3	E3.3, E6.7	MEDIUM										(2)2", (2)5"		ELECTRIC	1,2,4
SSB4	E3.4, E6.7	MEDIUM								(2)5"		(2)2", (2)5"		ELECTRIC	1,2,4
SSB5	E3.4, E6.7	MEDIUM								(4)5"		(2)2", (2)5"		ELECTRIC	1,2,4
SSPV6	E3.6	MEDIUM	712008.11	1167832.00		6'-4"	6'-4"	6'-7"	777-LA		(6)5"			ELECTRIC	2,4
SSPV7	E3.4	MEDIUM	712648.13	1167118.43	51	6'-4"	6'-4"	6'-7"	777-LA	(4)5"	(2)5"	(6)5"		ELECTRIC	1,2
SSPV8	E3.4	MEDIUM	713011.37	1166739.95	46	6'-4"	6'-4"	6'-7"	777-LA	(2)5"	(2)5"	(4)5"		ELECTRIC	1,2
SSPV9	E3.3	MEDIUM	713221.58	1166521.93	52	6'-4"	6'-4"	6'-7"	777-LA		(2)5"	(2)5"		ELECTRIC	1,2
SSPV10	E6.10	MEDIUM				5'-3"	2'-0"	2'-9"	CUSTOM	(2)5"		(2)5"		ELECTRIC	1,2
SV210	E3.4	FIBER	712637.58	1167138.68	36	3'-6"	3'-6"	3'-3"	444-LA	(4)4"	(1)2"	(4)4"	(1)2"	COMMUNICATIONS	1,2
SV211	E3.4	FIBER	712598.13	1167108.88		3'-0"	2'-0"	2'-8"	233-LA		(1)2"		(1)2"	COMMUNICATIONS	1,2
SV212	E3.4	FIBER	712703.07	1167066.46	36	3'-6"	3'-6"	3'-3"	444-LA	(4)4"		(4)4"	(4)4"	COMMUNICATIONS	1,2
SV213	E3.4	FIBER	712776.14	1166991.14	36	3'-6"	3'-6"	3'-3"	444-LA	(2)4"	(1)2"	(2)4"		COMMUNICATIONS	1,2
SV214	E3.4	FIBER	712838.09	1166927.08	36	3'-6"	3'-6"	3'-3"	444-LA	(2)4"		(2)4"	(1)2"	COMMUNICATIONS	1,2
SV215	E3.4	FIBER	712804.77	1166893.27		3'-0"	2'-0"	2'-8"	233-LA		(1)2"		(1)2"	COMMUNICATIONS	1,2
SV216	E3.4	FIBER	713044.89	1166714.61	36	3'-6"	3'-6"	3'-3"	444-LA	(2)4"	(1)2"	(2)4"	(1)2"	COMMUNICATIONS	1,2
SV217	E3.4, E3.8	FIBER	713012.91	1166680.09		3'-0"	2'-0"	2'-8"	233-LA		(1)2"		(1)2"	COMMUNICATIONS	1,2
SV218	E3.3	FIBER	713193.64	1166559.03	36	3'-6"	3'-6"	3'-3"	444-LA	(2)4"	(2)2"	(2)4"		COMMUNICATIONS	1,2
SV219	E3.3	FIBER	713203.26	1166474.36	36	3'-6"	3'-6"	3'-3"	444-LA	(1)2"	(4)4"		(4)4"	COMMUNICATIONS	1,2
SV220	E3.3	FIBER	713336.48	1166242.61	36	3'-6"	3'-6"	3'-3"	444-LA	(2)4"	(1)2"	(2)4"		COMMUNICATIONS	1,2
SV221	E3.3	FIBER	713365.16	1166284.50		3'-0"	2'-0"	2'-8"	233-LA		(1)2"		(1)2"	COMMUNICATIONS	1,2
SV222	E3.3	FIBER	713506.18	1165988.62	36	3'-6"	3'-6"	3'-3"	444-LA		(4)4"	(4)4"		COMMUNICATIONS	1,2
SV223	E3.3	FIBER	713618.53	1166025.64		3'-0"	2'-0"	2'-8"	233-LA	(4)4"		(1)2"	(4)4"	COMMUNICATIONS	1,2
SV224	E3.5	FIBER	712297.91	1167605.55	36	3'-6"	3'-6"	3'-3"	444-LA	(4)4"	(4)4"	(4)4"	(4)4"	COMMUNICATIONS	1,2
SV225	E3.5	FIBER	712105.09	1167809.40	36	3'-6"	3'-6"	3'-3"	444-LA	(4) 4"	(4) 4"		(1)2"	COMMUNICATIONS	1,2
TPUMV3	E3.5, E3.6	MEDIUM	711992.23	1167791.42		6'-4"	6'-4"	3'-0"	TPU 774	(4)5"		(4)5"		TACOMA POWER	2,5
TPUMV4	E3.5, E3.6	MEDIUM	712002.50	1167801.21		6'-4"	6'-4"	3'-0"	TPU 774		(4)5"	(4)5"		TACOMA POWER	2,5
TPUPV11	E3.5, E3.6	MEDIUM	711980.78	1167805.74		8'-0"	10'-0"	8'-2"	TPU 810	(8)5"			(4)5"	TACOMA POWER	2,5
VMT5	E3.5, E3.6	MEDIUM	711994.01	1167820.42		6'-4"	6'-4"	3'-0"	TPU 774				(4)5"	TACOMA POWER	2,3,5
VMT6	E3.4, E3.8	MEDIUM	713016.19	1166658.35		6'-4"	6'-4"	3'-0"	TPU 774		(2)4"			ELECTRIC	2,3,5
WCV1	E6.10	FIBER				2'-6"	2'-6"	2'-9"	CUSTOM	(1)2"	(1)2"		(2)2"	COMMUNICATIONS	1,2
WPV6	E3.3, E6.5	LOW								(1)2", (1)3"				ELECTRIC	1,2,4
WPV7	E3.3, E6.5	LOW								(1)2", (1)2 1/2"				ELECTRIC	1,2,4
WPV8	E3.3, E6.5	LOW								(1)2", (1)2 1/2"				ELECTRIC	1,2,4
WPV9	E3.4, E6.5	LOW								(1)2", (1)2 1/2"				ELECTRIC	1,2,4
WPV10	E3.4, E6.5	LOW								(1)2", (1)2 1/2"				ELECTRIC	1,2,4
WPV11	E3.4, E6.5	LOW								(1)2", (1)2 1/2"				ELECTRIC	1,2,4
WPV12	E3.4, E6.5	LOW								(1)2", (1)2 1/2"				ELECTRIC	1,2,4
WPV13	E3.4, E6.5	LOW								(1)2", (1)2 1/2"		(1)2"		ELECTRIC	1,2,4
WPV14	E3.4, E6.5	LOW								(1)2", (1)3"				ELECTRIC	1,2,4
WPV15	E6.10	LOW				2'-6"	2'-6"	2'-9"	CUSTOM	(3)2", (1)3"	(1)2", (1)2 1/2"	(2)2", (1)2 1/2", (1)3"		ELECTRIC	1,2
WPV16	E6.10	LOW				2'-6"	2'-6"	2'-9"	CUSTOM	(3)2"	(1)2", (1)2 1/2"	(1)2 1/2"	(4)2"	ELECTRIC	1,2
WPV17	E6.11	LOW				2'-6"	2'-6"	2'-9"	CUSTOM	(1)2"	(1)2", (1)2 1/2"		(2)2", (1)2 1/2"	ELECTRIC	1,2
WPV18	E6.11	LOW				2'-6"	2'-6"	2'-9"	CUSTOM	(2)2"	(1)2", (1)2 1/2"	(2)2", (1)2 1/2"	(4)2", (2)2 1/2"	ELECTRIC	1,2
WPV19	E6.12	LOW				2'-6"	2'-6"	2'-9"	CUSTOM	(3)2"		(4)2", (1)2 1/2", (1)3"	(4)2", (1)2 1/2", (1)3"	ELECTRIC	1,2

SCHEDULE NOTES

1. 125 KIP RATING.
2. PROVIDE VAULT KIP RATING, STENCIL PAINTED ON INSIDE OF VAULT DIRECTLY BELOW LID. MINIMUM 4" HIGH LETTERS.
3. VAULT WITH TRANSFORMER COVER.
4. SEE STRUCTURAL DRAWINGS FOR DIMENSIONS AND DETAILS.
5. VAULT TO BE PER TACOMA POWER REQUIREMENTS.
6. SEE SHEET E6.21 FOR TYPICAL VAULT DETAILS.
7. SEE SPEC SECTION 33 71 19 "ELECTRICAL UNDERGROUND DUCTS AND MANHOLES" REGARDING RISER EXTENSIONS AND/OR GRADE RINGS.

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
18300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE

PROJ. ENGR	DATE
angel	Jun 28, 2018

PIER 4 PHASE 2
RECONFIGURATION
VAULTS AND HANDHOLE SCHEDULE

TOWNSHIP:	RANGE:	SECTION:
DAT-HRZ:	WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PARCEL:		DRAWING SCALE: AS NOTED

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
E6.20
SH 159 OF 499

CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

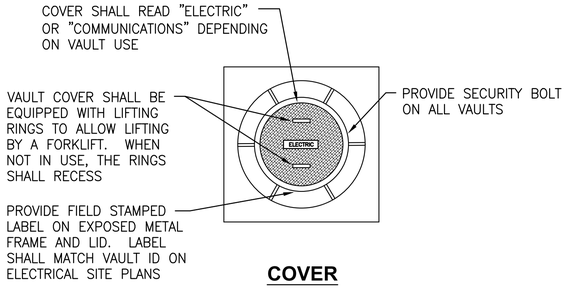
RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E620

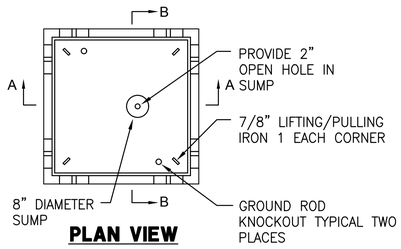
BINDING EDGE

GENERAL NOTES

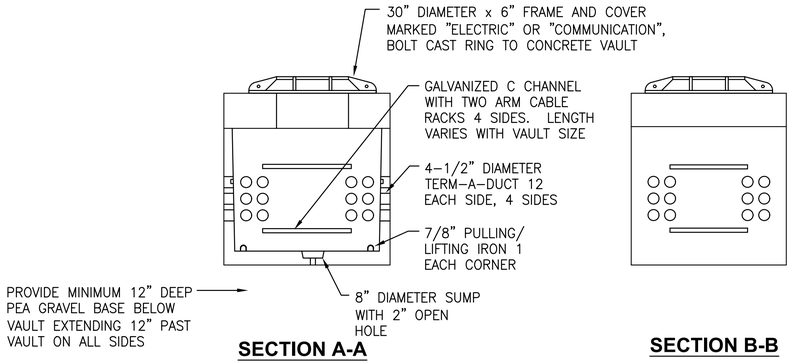
1. REFER TO SHEET E6.20 FOR MANHOLE/VAULT SIZES.



COVER



PLAN VIEW



SECTION A-A

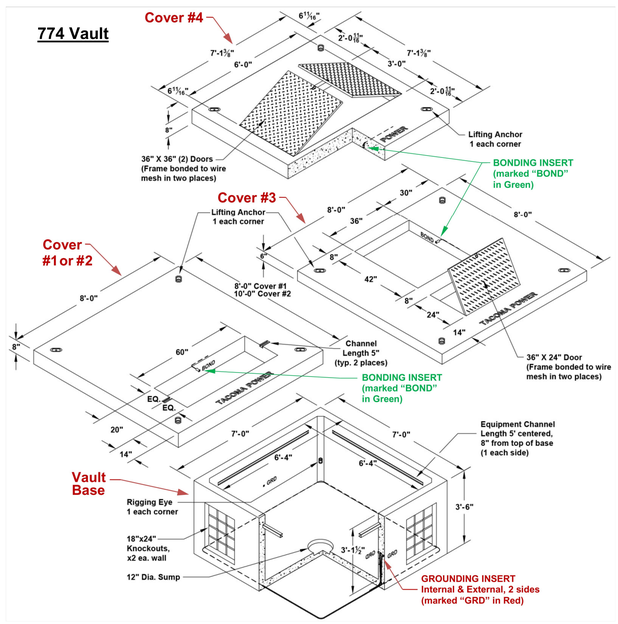
SECTION B-B

TYPICAL SITE POWER AND COMMUNCIATIONS VAULTS

A E6.20

SCALE: NTS

774 Vault

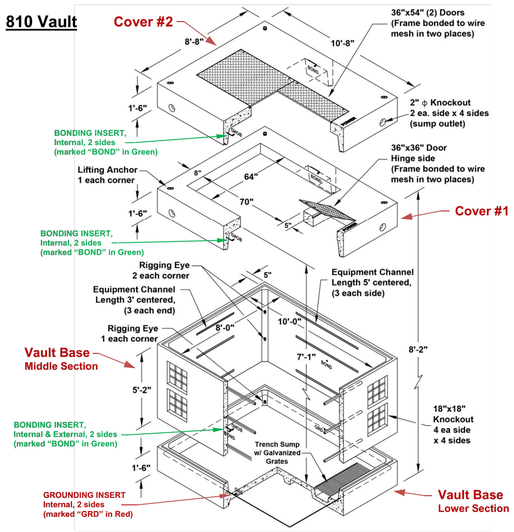


TYPICAL TACOMA POWER VAULTS

B E6.20

SCALE: NTS

810 Vault



RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE
PROJ. ENGR DATE
PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
MANHOLE/VAULT DETAILS

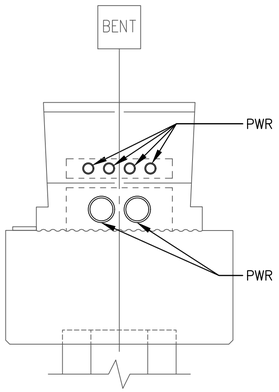
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

6552
E6.21
SH 160 OF 499

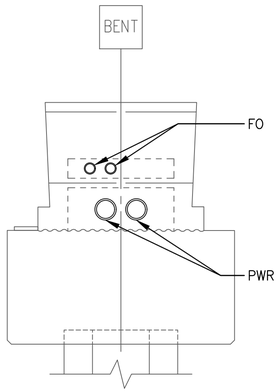
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

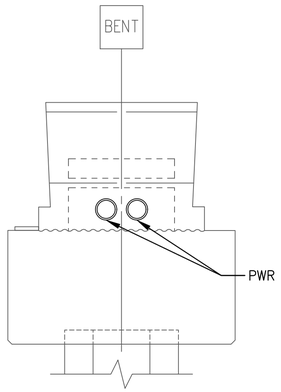
PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E621



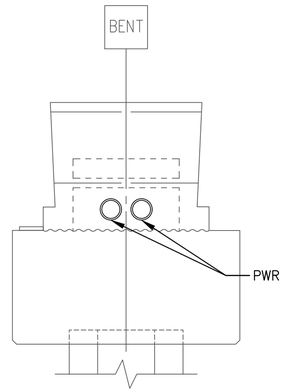
BENT 22



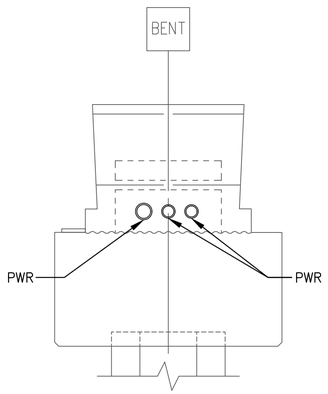
BENT 24



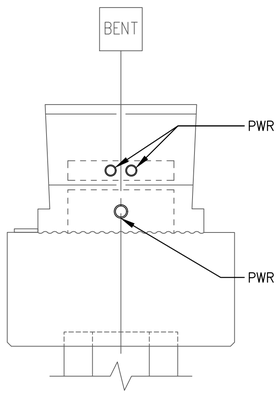
BENT 25



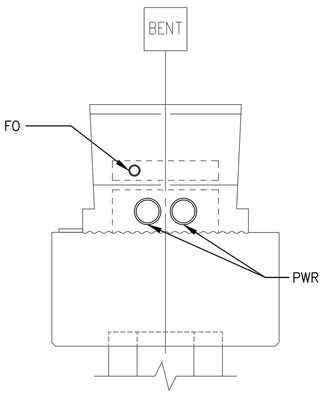
BENT 26



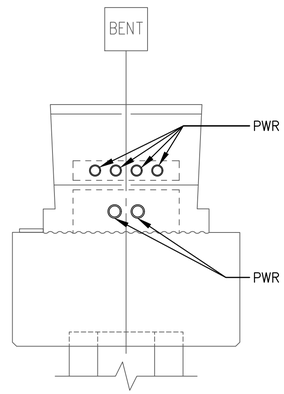
BENT 27



BENT 30



BENT 34



BENT 38

SECTIONS AT PILE CAP
1 CONDUIT/PIPE SLEEVE ZONE

NO SCALE

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E622

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
		PROJ. ENGR	DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

BENT SECTIONS

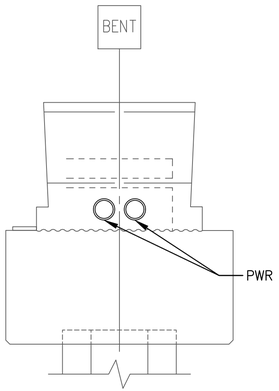
CONT/CONS: 0701.36	TOWNSHIP:	RANGE:	SECTION:
M. ID: 0912.51	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552

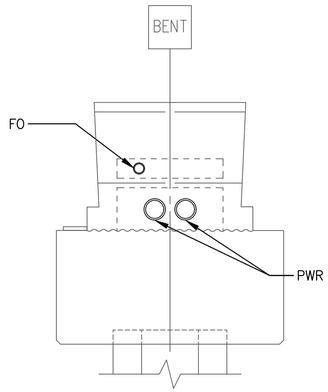
E6.22

SH 161 OF 499

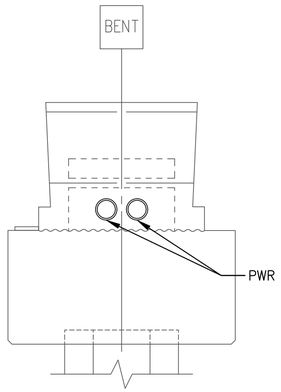
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



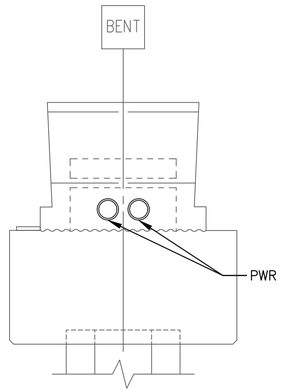
BENT 48



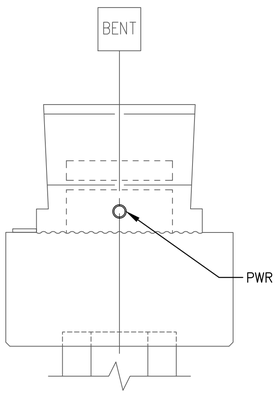
BENT 49



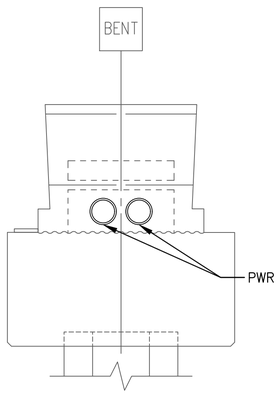
BENT 50



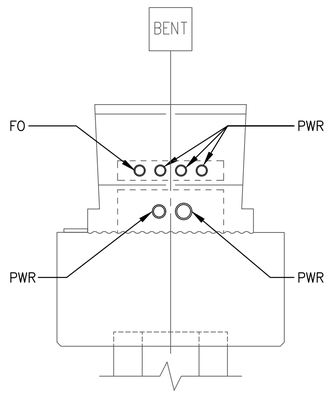
BENT 51



BENT 54



BENT 56



BENT 57

SECTIONS AT PILE CAP
1 CONDUIT/PIPE SLEEVE ZONE

NO SCALE

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
BENT SECTIONS

6552
E6.23
SH 162 OF 499

CONT/CONS: 0701136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 0911251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E623

BINDING EDGE

PANELBOARD RESTROOM — 200 A BUS — SECTIONS: 1 — SURFACE MOUNTED
240/ 120V 1 PHASE 3 WIRE — 200 A MCB — LUGS: SINGLE — NEMA:
LOCATION: RESTROOM BUILDING — 22,000 AIC MAX — FEED: — NUMBER OF POLES: 32

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD		KVA	C.B.	SERVES	TYPE	CKT
1	LI	EXTERIOR PHOTO CTRL LIGHTS	20/1	0.04	0.2		0.18	20/1	MENS RECEPTACLE	RE	2
3	LI	CHASE LIGHTS	20/1	0.06		0.2	0.18	20/1	WOMENS RECEPTACLE	RE	4
5	LI	MENS LIGHTS AND EXH FAN	20/1	0.24	0.2		0.18	20/1	CHASE RECEPTACLE	RE	6
7	LI	WOMENS LIGHTS AND EXH FAN	20/1	0.24		0.4	0.16	20/1	ELECT DOOR LOCKS & TIME CL	MC	8
9	MN	MENS HAND DRYER	20/1	1.14	2.3		1.14	20/1	WOMENS HAND DRYER	MN	10
11	MN	WATER HEATER	30/2	4.50		2.6	0.36	20/1	HOT BOX RECEPT & J-BOX	RE	12
13		-----	---		2.3						14
15						0.0					16
17					0.0						18
19						0.0					20
21					0.0						22
23						0.0					24
25					0.0						26
27						0.0					28
29					0.0						30
31						0.0					32
					4.9	3.2			CALCULATED LOAD		**8.6 KVA**
									MAXIMUM AMPS PER PHASE		**41.2 AMPS**

NOTES:
1. PANELBOARD PROVIDED WITH BUILDING
2. CKT #12 TO HAVE GFI TYPE BREAKER FOR EQUIPMENT

	SUMMARIZED LOADS: CONNECTION TYPE	DEMAND	CONN KVA	NEC KVA	NEC AMPS	COMMENTS
4	LI LIGHTING	125%	0.6	0.7	3.0	125% CONNECTED – NEC 210.19
4	RE RECEPTACLES	100%	0.9	0.9	3.8	NONDWELLING UNITS – NEC 220.44
0	MO MOTOR	125%	0.0	0.0	0.0	100%+125% LARGEST MOTOR – NEC 430.24
0	EH ELECTRIC HEAT	100%	0.0	0.0	0.0	100% CONNECTED – NEC 220.51
0	AC A/C REFRIGERATION	125%	0.0	0.0	0.0	100%+125% LARGEST MOTOR – NEC 430.24
0	CC COMMERCIAL COOKING	100%	0.0	0.0	0.0	NEC 220.56
3	MN MISC. NONCONTINUOUS	100%	6.8	6.8	28.3	100% CONNECTED – NEC 210.19
1	MC MISC. CONTINUOUS	125%	0.2	0.2	0.8	125% CONNECTED – NEC 210.19
0	SF SUBFEED	100%	0.0	0.0	0.0	
	FT FEED THROUGH LOAD	100%			0.0	
0	MA EXISTING MAX DEMAND	125%		0.0	0.0	PEAK DEMAND DURING 30 DAY METERING, PER NEC 220.87
0	NO NONCOINCIDENTAL LOAD	0%	0.0	0.0	0.0	NEC 220.60
0	SP SPARE CAPACITY	100%	0.0	0.0	0.0	
	MISCELLANEOUS LOAD	100%	0.0	0.0	0.0	
	TOTALS	**102%**	**8.4**	**8.6**	**35.8**	**PANELBOARD RESTROOM**

PANELBOARD P42 — 225 A BUS — SECTIONS: 1 — SURFACE MOUNTED
208/ 120V 3 PHASE 4 WIRE — 150 A MCB — LUGS: SINGLE — NEMA: 4X
LOCATION: YARD — 10,000 AIC — FEED: — NUMBER OF POLES: 42

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD			KVA	C.B.	SERVES	TYPE	CKT
1	RE	BULLRAIL VAULT #11 RECEPT	20/1	0.18	1.2			2.00	20/2	BULLRAIL VAULT #10 RECEPT	MN	2
3	MN	BULLRAIL VAULT #11 RECEPT	20/2	2.00		2.0			---	------		4
5		-----	---				1.2	0.18	20/1	BULLRAIL VAULT #10 RECEPT	RE	6
7	EH	WATER VAULT HEAT TRACE	20/1	0.10	0.3			0.18	20/1	BULLRAIL VAULT #9 RECEPT	RE	8
9	EH	WATER VAULT HEAT TRACE	20/1	0.10		1.1		2.00	20/2	BULLRAIL VAULT #9 RECEPT	MN	10
11	EH	WATER VAULT HEAT TRACE	20/1	0.10			1.1		---	------		12
13	EH	LTG CTRL CAB HEATER	20/1	0.20	0.2				20/1	COMM CAB AT POLE WYL02	RE	14
15		SPARE	20/1			0.0			20/1	COMM CAB AT POLE WYL01	RE	16
17		SPARE	20/1				0.0		20/1	SWBD, P44 HEATER	EH	18
19		SPARE	20/1		0.0				20/1	SPARE		20
21		SPARE	20/1			0.0			20/1	SPARE		22
23		SPARE	20/1				0.0		20/1	SPARE		24
25		SPACE			0.0					SPACE		26
27		SPACE				0.0				SPACE		28
29		SPACE					0.0			SPACE		30
31		SPACE			0.0					SPACE		32
33		SPACE				0.0				SPACE		34
35		SPACE					0.0			SPACE		36
37		SPACE			0.0				30/3	TVSS		38
39		SPACE				0.0			---	------		40
41		SPACE					0.0		---	------		42
					1.7	3.1	2.3			CALCULATED LOAD		**19.8 KVA**
										MAXIMUM AMPS PER PHASE		**54.9 AMPS**

NOTES:
1. CKTS #7,9,11 TO HAVE GFI TYPE BREAKER FOR EQUIPMENT

	SUMMARIZED LOADS: CONNECTION TYPE	DEMAND	CONN KVA	NEC KVA	NEC AMPS	COMMENTS
0	LI LIGHTING	125%	0.0	0.0	0.0	125% CONNECTED – NEC 210.19
5	RE RECEPTACLES	100%	0.5	0.5	1.5	NONDWELLING UNITS – NEC 220.44
0	MO MOTOR	125%	0.0	0.0	0.0	100%+125% LARGEST MOTOR – NEC 430.24
5	EH ELECTRIC HEAT	100%	0.5	0.5	1.4	100% CONNECTED – NEC 220.51
0	AC A/C REFRIGERATION	125%	0.0	0.0	0.0	LESS THAN HEATING – NEC 220.60
0	CC COMMERCIAL COOKING	100%	0.0	0.0	0.0	NEC 220.56
3	MN MISC. NONCONTINUOUS	100%	6.0	6.0	16.7	100% CONNECTED – NEC 210.19
0	MC MISC. CONTINUOUS	125%	0.0	0.0	0.0	125% CONNECTED – NEC 210.19
0	SF SUBFEED	100%	0.0	0.0	0.0	
	FT FEED THROUGH LOAD	100%			0.0	
0	MA EXISTING MAX DEMAND	125%	10.2	12.8	35.4	PEAK DEMAND DURING 30 DAY METERING, PER NEC 220.87
0	NO NONCOINCIDENTAL LOAD	0%	0.0	0.0	0.0	NEC 220.60
0	SP SPARE CAPACITY	100%	0.0	0.0	0.0	
	MISCELLANEOUS LOAD	100%	0.0	0.0	0.0	
	TOTALS	**115%**	**17.2**	**19.8**	**54.9**	**PANELBOARD P42**

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE | PROJ. ENGR DATE | CHECKED BY DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
PANEL SCHEDULES P42 AND RESTROOM BUILDING

6552
E7.1
SH 163 OF 499

CONT/CONS: 070136 | TOWNSHIP: | RANGE: | SECTION:
M. ID: 091251 | DAT-HRZ: WA83-SF | VERT: MLLW 19.39' @ Tide 22 1933
PHASE: CONFORMED | PARCEL:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\6650-041.01\Dwgs\As_Built\Phase 2\091251-E701

BINDING EDGE

MPZ– WYL03 | PRI 100 A BUS | SECTIONS: 1 | SURFACE MOUNTED
240/ 120V 1 PHASE 3 WIRE | SEC 125 A MCB | LUGS: SINGLE | NEMA: 4X
LOCATION: LTG POLE #WYL03 | 10,000 AIC | FEED: | NUMBER OF POLES: 24

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT
1	RE	BULLRAIL VAULT #6 RECEPT	20/1	0.18	1.2	2.00	20/2	BULLRAIL VAULT #7 RECEPT	MN	2
3	MN	BULLRAIL VAULT #6 RECEPT	20/2	2.00	2.0		---	-----		4
5		-----	---		0.2	0.18	20/1	BULLRAIL VAULT #7 RECEPT	RE	6
7	EH	WATER VAULT HEAT TRACE	20/1	0.10	0.3	0.18	20/1	BULLRAIL VAULT #8 RECEPT	RE	8
9	EH	WATER VAULT HEAT TRACE	20/1	0.10	1.1	2.00	20/2	BULLRAIL VAULT #8 RECEPT	MN	10
11	EH	WATER VAULT HEAT TRACE	20/1	0.10	1.1		---	-----		12
13	RE	COMM CAB AT POLE WYL05	20/1		0.0		20/1	SPARE		14
15	RE	COMM CAB AT POLE WYL04	20/1		0.0		20/1	SPARE		16
17	RE	COMM CAB AT POLE WYL03	20/1		0.0		20/1	SPARE		18
19		SPACE			0.0			SPACE		20
21		SPACE			0.0		30/2	TVSS		22
23		SPACE			0.0		---	-----		24
					2.5	3.4		CALCULATED LOAD		**9.1 KVA**
								MAXIMUM AMPS PER PHASE		**37.9 AMPS**

NOTES:

1. CKTX #7,9,11 TO HAVE GFI TYPE BREAKER FOR EQUIPMENT

	SUMMARIZED LOADS: CONNECTION TYPE		DEMAND	CONN KVA	NEC KVA	NEC AMPS	COMMENTS
0	LI	LIGHTING	125%	0.0	0.0	0.0	125% CONNECTED – NEC 210.19
6	RE	RECEPTACLES	100%	0.5	0.5	2.3	NONDWELLING UNITS – NEC 220.44
0	MO	MOTOR	125%	0.0	0.0	0.0	100%+125% LARGEST MOTOR – NEC 430.24
3	EH	ELECTRIC HEAT	100%	0.3	0.3	1.3	100% CONNECTED – NEC 220.51
0	AC	A/C REFRIGERATION	125%	0.0	0.0	0.0	LESS THAN HEATING – NEC 220.60
0	CC	COMMERCIAL COOKING	100%	0.0	0.0	0.0	NEC 220.56
3	MN	MISC. NONCONTINUOUS	100%	6.0	6.0	25.0	100% CONNECTED – NEC 210.19
0	MC	MISC. CONTINUOUS	125%	0.0	0.0	0.0	125% CONNECTED – NEC 210.19
0	SF	SUBFEED	100%	0.0	0.0	0.0	
	FT	FEED THROUGH LOAD	100%			0.0	
0	MA	EXISTING MAX DEMAND	125%	1.8	2.3	9.4	PEAK DEMAND DURING 30 DAY METERING, PER NEC 220.87
0	NO	NONCOINCIDENTAL LOAD	0%	0.0	0.0	0.0	NEC 220.60
0	SP	SPARE CAPACITY	100%	0.0	0.0	0.0	
		MISCELLANEOUS LOAD	100%	0.0	0.0	0.0	
		TOTALS	**105%**	**8.6**	**9.1**	**37.9**	**MPZ– WYL03**

MPZ– YL05 | PRI 100 A BUS | SECTIONS: 1 | SURFACE MOUNTED
240/ 120V 1 PHASE 3 WIRE | SEC 125 A MCB | LUGS: SINGLE | NEMA 4X
LOCATION: LTG POLE #YL05 | 10,000 AIC | FEED: | NUMBER OF POLES: 24

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT
1	RE	BULLRAIL VAULT #14 RECEPT	20/1	0.18	0.3	0.10	20/1	WATER VAULT HEAT TRACE	EH	2
3	MN	BULLRAIL VAULT #14 RECEPT	20/2	2.00	1.1	0.10	20/1	WATER VAULT HEAT TRACE	EH	4
5		-------	---		0.1	0.10	20/1	WATER VAULT HEAT TRACE	EH	6
7	MN	BULLRAIL VAULT #13 RECEPT	20/2	2.00	1.0		20/1	COMM CAB AT POLE YL05	RE	8
9		-------	---		1.0		20/1	COMM CAB AT POLE YL08	RE	10
11	RE	BULLRAIL VAULT #13 RECEPT	20/1	0.18	0.2		20/1	SPARE		12
13	RE	BULLRAIL VAULT #12 RECEPT	20/1	0.18	0.2		20/1	SPARE		14
15	MN	BULLRAIL VAULT #12 RECEPT	20/2	2.00	1.0		20/1	SPARE		16
17		------	---		0.0		20/1	SPARE		18
19		SPACE			0.0			SPACE		20
21		SPACE			0.0		30/2	TVSS		22
23		SPACE			0.0		---	-----		24
					1.6	3.3		CALCULATED LOAD		**12.6 KVA**
								MAXIMUM AMPS PER PHASE		**52.5 AMPS**

NOTES:

1. CKTS. #2,4,6 TO HAVE GFI TYPE BREAKER FOR EQUIPMENT

	SUMMARIZED LOADS: CONNECTION TYPE		DEMAND	CONN KVA	NEC KVA	NEC AMPS	COMMENTS
0	LI	LIGHTING	125%	0.0	0.0	0.0	125% CONNECTED – NEC 210.19
5	RE	RECEPTACLES	100%	0.5	0.5	2.3	NONDWELLING UNITS – NEC 220.44
0	MO	MOTOR	125%	0.0	0.0	0.0	100%+125% LARGEST MOTOR – NEC 430.24
3	EH	ELECTRIC HEAT	100%	0.3	0.3	1.3	100% CONNECTED – NEC 220.51
0	AC	A/C REFRIGERATION	125%	0.0	0.0	0.0	LESS THAN HEATING – NEC 220.60
0	CC	COMMERCIAL COOKING	100%	0.0	0.0	0.0	NEC 220.56
3	MN	MISC. NONCONTINUOUS	100%	6.0	6.0	25.0	100% CONNECTED – NEC 210.19
0	MC	MISC. CONTINUOUS	125%	0.0	0.0	0.0	125% CONNECTED – NEC 210.19
0	SF	SUBFEED	100%	0.0	0.0	0.0	
	FT	FEED THROUGH LOAD	100%			0.0	
0	MA	EXISTING MAX DEMAND	125%	4.6	5.8	24.0	PEAK DEMAND DURING 30 DAY METERING, PER NEC 220.87
0	NO	NONCOINCIDENTAL LOAD	0%	0.0	0.0	0.0	NEC 220.60
0	SP	SPARE CAPACITY	100%	0.0	0.0	0.0	
		MISCELLANEOUS LOAD	100%	0.0	0.0	0.0	
		TOTALS	**110%**	**11.4**	**12.6**	**52.5**	**MPZ– YL05**

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E702

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | (253)383-5841

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

CHECKED BY	DATE

DIRECTOR ENG.	DATE

PROJ. ENGR	DATE

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
PANEL SCHEDULES MPZ-WYL03 & MPZ-YL05

6552
E7.2
SH 164 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

LEGEND

CBC	=	OUTGATE COMMUNICATIONS ROOM COMMUNICATIONS	RV	=	REEFER POWER VAULT
CBP	=	OUTGATE COMMUNICATIONS ROOM POWER	SD	=	SECONDARY 600V DISTRIBUTION
CP	=	CRANE POWER	SDV	=	SECONDARY DISTRIBUTION VAULT
CPV	=	CRANE POWER VAULT	SL	=	SITE LIGHTING
CPC	=	CHASSIS CAMERA COMMUNICATIONS	SP	=	SPARE CONDUIT
CPP	=	CHASSIS CAMERA POWER	SSP	=	SHORE SHIP POWER
FOB	=	FIBER OPTIC	SV	=	SIGNAL VAULT
GCV	=	GATE COMMUNICATIONS VAULT	TPU	=	TACOMA PUBLIC UTILITY
GPV	=	GATE POWER VAULT	TPUC	=	TACOMA PUBLIC UTILITY COMMUNICATIONS
HSC	=	HOMELAND SECURITY CAMERA FIBER	TPUPV	=	TACOMA POWER VAULT
IC	=	INTERCOM COMMUNICATIONS	WG	=	WHARF GROUNDING
IP	=	INTERCOM POWER	WP	=	WHARF PRIMARY 15KV DISTRIBUTION
PD	=	PRIMARY 13.8KV DISTRIBUTION	WPV	=	WHARF POWER VAULT
PDV	=	PRIMARY DISTRIBUTION VAULT	WS	=	WHARF SECONDARY 600V DISTRIBUTION
PV	=	POWER VAULT	WIFIC	=	WIFI ANTENNA SYSTEM COMMUNICATIONS
Q	=	QWEST	WIFIP	=	WIFI ANTENNA SYSTEM POWER
QV	=	QWEST VAULT	NUMBERING = INDIVIDUAL CONDUIT IDENTIFICATION		
RR	=	REEFER RECEPTACLE	////		CONTINUOUS HATCHING INDICATES ITEMS TO BE REMOVED

SCHEDULE KEY NOTES

(1) SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.

(2) PVC SHCEDULE 80.

(3) GRS CONDUIT.

(4) CONDUIT(S) CUT. ABANDONED IN PLACE.

(5) COORDINATE WORK WITH TACOMA POWER.

(6) PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

(7) LIQUID TIGHT FLEXIBLE METAL CONDUIT.

(8) CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

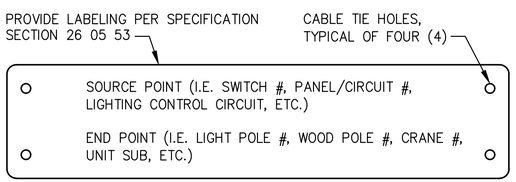
(9) CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

(10) PVC COATED GRS CONDUIT.

(11) EXTEND DUCTBANK TO VAULT SV212.

SCHEDULE GENERAL NOTES

1. NOT ALL CONDUITS ARE SHOWN ON CONDUIT AND CONDUCTOR SCHEDULES. CONTRACTOR SHALL REFER TO POWER RISER DIAGRAMS AND SUBSTATION LAYOUT PLANS FOR ADDITIONAL CONDUITS AND WIRE.



1 – **CONDUCTOR IDENTIFICATION LABEL**
NO SCALE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
IC1	1	2"	(2)(3)	–	–	–	INTERCOM PEDESTAL #1	VAULT ICV1	(8)
IC2	1	2"	(2)(3)	–	–	–	INTERCOM PEDESTAL #2	VAULT ICV1	
IC3	1	2"	(2)(3)	–	–	–	INTERCOM PEDESTAL #3	VAULT ICV1	
IC4	4	2"	(2)(3)	–	–	–	VAULT ICV1	OUTGATE COMMUNICATIONS ROOM	
IC5	1	2"	(2)(3)	–	–	–	INTERCOM PEDESTAL #4	VAULT ICV1	
IP1	1	1.5"	(2)(3)	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #1	VAULT IPV1	(8)
IP2	1	1.5"	(2)(3)	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #2	VAULT IPV1	
IP3	1	1.5"	(2)(3)	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #3	VAULT IPV1	
IP4	–	–	–	–	–	–	–	–	NOT USED
IP5	1	2"	(2)(3)	2/1	10/10	XHHW-2	TRUCK SCALE	VAULT IPV3	(8)
IP6	1	2"	(2)(3)	2/1	10/10	XHHW-2	VAULT IPV3	PANEL 2G	
IP7	1	1.5"	(2)(3)	4/1	10/10	XHHW-2	VAULT IPV3	PANEL 2G	
IP8	1	1.5"	(2)(3)	2/1	10/10	XHHW-2	INTERCOM PEDESTAL #4	VAULT IPV1	
IP9	1	1.5"	(2)(3)	–	–	–	INTERCOM PEDESTAL #1	VAULT IPV1	
IP10	1	1.5"	(2)(3)	–	–	–	INTERCOM PEDESTAL #2	VAULT IPV1	
IP11	1	1.5"	(2)(3)	–	–	–	INTERCOM PEDESTAL #3	VAULT IPV1	
IP12	1	1.5"	(2)(3)	–	–	–	INTERCOM PEDESTAL #4	VAULT IPV1	
CP1	–	–	–	–	–	–	–	–	NOT USED
CP2	1	1.5"	(2)(3)	–	–	–	VAULT IPV2	CHASIS CAMERA PEDESTAL #1	(8)
CP3	1	1.5"	(2)(3)	–	–	–	VAULT IPV2	CHASIS CAMERA PEDESTAL #2	(8)
CP4	–	–	–	–	–	–	–	–	NOT USED
CP5	4	2"	(2)(3)	–	–	–	VAULT IPV2	PANEL 2G	(8)
CP6	1	1"	(2)(3)	2/1	10/10	XHHW-2	LIGHTING CONTROLLER "OG"	VAULT IPV2	(8)
CP7	–	–	–	–	–	–	–	–	NOT USED
CP8	1	1.5"	(2)(3)	2/1	10/10	XHHW-2	VAULT IPV2	CHASIS CAMERA PEDESTAL #1	(8)
CP9	1	1.5"	(2)(3)	2/1	10/10	XHHW-2	VAULT IPV2	CHASIS CAMERA PEDESTAL #2	(8)
CP1 THRU CP26									(9)
CP27	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV14**	**CPV4**	**CRANE 1**
CP28	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV13**	**PDV14**	**CRANE 1**
CP29	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV16**	**PDV13**	**CRANE 1**
CP30	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV14**	**CPV4**	**CRANE 2**
CP31	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV13**	**PDV14**	**CRANE 2**
CP32	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV16**	**PDV13**	**CRANE 2**
CP33	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV14**	**CPV5**	**CRANE 3**
CP34	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV13**	**PDV14**	**CRANE 3**
CP35	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV16**	**PDV13**	**CRANE 3**
CP36	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV14**	**CPV5**	**CRANE 4**
CP37	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV13**	**PDV14**	**CRANE 4**
CP38	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV16**	**PDV13**	**CRANE 4**
CP39	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV11**	**CPV6**	**CRANE 5**
CP40	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV10**	**PDV11**	**CRANE 5**
CP41	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV15**	**PDV10**	**CRANE 5**
CP42	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV11**	**CPV6**	**CRANE 6**
CP43	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV10**	**PDV11**	**CRANE 6**
CP44	**1**	**4"**	**(2)**	**3/1/1**	**0/0/10**	**15KV/600V**	**PDV15**	**PDV10**	**CRANE 6**
CP45	**1**	**4"**	**(2)**	**–**	**–**	**–**	**PDV11**	**CPV7**	**FUTURE CRANE 7**
CP46	**1**	**4"**	**(2)**	**–**	**–**	**–**	**PDV10**	**PDV11**	**FUTURE CRANE 7**
CP47	**1**	**4"**	**(2)**	**–**	**–**	**–**	**PDV15**	**PDV10**	**FUTURE CRANE 7**
CP48	**1**	**4"**	**(2)**	**–**	**–**	**–**	**PDV11**	**CPV7**	**FUTURE CRANE 8**
CP49	**1**	**4"**	**(2)**	**–**	**–**	**–**	**PDV10**	**PDV11**	**FUTURE CRANE 8**
CP50	**1**	**4"**	**(2)**	**–**	**–**	**–**	**PDV15**	**PDV10**	**FUTURE CRANE 8**
CP51	**1**	**4"**	**(2)(10)**	**3/1/1**	**0/0/10**	**15KV/600V**	**SWITCH F5**	**PDV16**	**CRANE 1**
CP52	**1**	**4"**	**(2)(10)**	**3/1/1**	**0/0/10**	**15KV/600V**	**SWITCH F6**	**PDV16**	**CRANE 2**
CP53	**1**	**4"**	**(2)(10)**	**3/1/1**	**0/0/10**	**15KV/600V**	**SWITCH F7**	**PDV16**	**CRANE 3**
CP54	**1**	**4"**	**(2)(10)**	**3/1/1**	**0/0/10**	**15KV/600V**	**SWITCH F8**	**PDV16**	**CRANE 4**
CP55	**1**	**4"**	**(2)(10)**	**3/1/1**	**0/0/10**	**15KV/600V**	**SWITCH F11**	**PDV15**	**CRANE 5**
CP56	**1**	**4"**	**(2)(10)**	**3/1/1**	**0/0/10**	**15KV/600V**	**SWITCH F12**	**PDV15**	**CRANE 6**
CP57	**1**	**4"**	**(2)(10)**	**–**	**–**	**–**	**FUTURE SWITCH F13**	**PDV15**	**FUTURE CRANE 7**
CP58	**1**	**4"**	**(2)(10)**	**–**	**–**	**–**	**FUTURE SWITCH F14**	**PDV15**	**FUTURE CRANE 8**
CBC1	1	2"	(2)(3)	–	–	–	VAULT CV1	CHASIS LIGHT PEDESTAL #1	(8)
CBC2	1	2"	(2)(3)	–	–	–	VAULT CV1	CHASIS CAMERA SUPPORT #1	
CBC3	1	2"	(2)(3)	–	–	–	VAULT CV1	VIT #1	
CBC4	1	2"	(2)(3)	–	–	–	VAULT CV2	CHASIS LIGHT PEDESTAL #2	
CBC5	1	2"	(2)(3)	–	–	–	VAULT CV2	CHASIS CAMERA SUPPORT #2	
CBC6	1	2"	(2)(3)	–	–	–	VAULT CV2	VIT #2	
CBC7	1	2"	(2)(3)	–	–	–	VAULT CV3	CHASIS LIGHT PEDESTAL #3	
CBC8	1	2"	(2)(3)	–	–	–	VAULT CV3	CHASIS CAMERA SUPPORT #3	
CBC9	1	2"	(2)(3)	–	–	–	VAULT CV3	VIT #3	
CBC10	1	2"	(2)(3)	–	–	–	VAULT CV4	CHASIS LIGHT PEDESTAL #4	
CBC11	1	2"	(2)(3)	–	–	–	VAULT CV4	CHASIS CAMERA SUPPORT #4	
CBC12	1	2"	(2)(3)	–	–	–	VAULT CV4	VIT #4	
CBC13	2	2"	(2)(3)	–	–	–	VAULT CV4	VAULT CV3	
CBC14	3	2"	(2)(3)	–	–	–	VAULT CV3	VAULT CV2	
CBC15	4	2"	(2)(3)	–	–	–	VAULT CV2	VAULT CV1	
CBC16	4	2"	(2)(3)	–	–	–	VAULT CV1	OUTGATE COMMUNICATIONS ROOM	

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

CHECKED BY	DATE	DIRECTOR ENG.	DATE
		PROJ. ENGR	DATE
		PRINTED BY: angel Jun 28, 2018	
		PORT ADDRESS:ONE SITCUM PLAZA	
		TACOMA, WA 98401-1837	

PIER 4 PHASE 2 RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS:ONE SITCUM PLAZA	
PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	

6552
E8.1
SH 165 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E801

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
CBP1	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV1	CHASIS LIGHT PEDESTAL #1	⑧
CBP2	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV1	CHASIS CAMERA SUPPORT #1	
CBP3	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV1	VIT #1	
CBP4	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV2	CHASIS LIGHT PEDESTAL #2	
CBP5	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV2	CHASIS CAMERA SUPPORT #2	
CBP6	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV2	VIT #2	
CBP7	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV3	CHASIS LIGHT PEDESTAL #3	
CBP8	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV3	CHASIS CAMERA SUPPORT #3	
CBP9	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV3	VIT #3	
CBP10	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV4	CHASIS LIGHT PEDESTAL #4	
CBP11	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV4	CHASIS CAMERA SUPPORT #4	
CBP12	1	2"	②③	2/1	10/10	XHHW-2	VAULT CPPV4	VIT #4	
CBP13	1	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV4	VAULT CPV3	
CBP14	1	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV3	VAULT CPV2	
CBP15	2	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV2	VAULT CPV1	
CBP16	2	2"	②③	4/1	10/10	XHHW-2	VAULT CPPV1	PANEL 2GA	
CPC1	–	–	–	–	–	–	–	–	NOT USED
CPC2	2	2"	②③	–	–	–	VAULT ICV2	CHASIS CAMERA PEDESTAL #1	⑧
CPC3	2	2"	②③	–	–	–	VAULT ICV2	CHASIS CAMERA PEDESTAL #2	
CPC4	1	2"	②③	–	–	–	VAULT ICV2	TRUCK SCALE	
CPC5	4	2"	②③	–	–	–	VAULT ICV2	OUTGATE COMMUNICATIONS ROOM	
FOB1 THRU FOB3									⑨
FOB4	**1**	**2"**	**②**	**–**	**–**	**–**	**HH #WCV1**	**FOV4**	**FIBER**
FOB5	**1**	**2"**	**②**		**㉘**		**FOV5**	**CPV5**	**FIBER**
FOB6	**1**	**2"**	**②**		**㉘**		**FOV5**	**CPV4**	**FIBER**
FOB7	**1**	**2"**	**②**		**㉙**		**HH #WCV1**	**FOV5**	**FIBER**
FOB8	**1**	**2"**	**②⑩**		**⑱**		**SV223**	**POLE WYL05**	**FIBER**
FOB9	**4**	**4"**	**②**		**㉔**		**SV222**	**SV223**	**FIBER**
FOB10	**4**	**4"**	**②**		**㉔**		**SV220**	**SV222**	**FIBER**
FOB11	**1**	**2"**	**②⑩**		**⑱**		**SV221**	**POLE WYL04**	**FIBER**
FOB12	**1**	**2"**	**②**		**⑱**		**SV220**	**SV221**	**FIBER**
FOB13	**4**	**4"**	**②**		**㉓**		**SV219**	**SV220**	**FIBER**
FOB14	**2**	**2"**	**②⑩**		**⑱㉖**		**SV219**	**POLE WYL03**	**FIBER** ㉗
FOB15	**4**	**4"**	**②**		**㉒**		**SV218**	**SV219**	**FIBER**
FOB16	**4**	**4"**	**②**		**⑱**		**SV112**	**SV212**	**FIBER**
FOB17	**4**	**4"**	**②**		**㉚**		**SV216**	**SV218**	**FIBER**
FOB18	**1**	**2"**	**②**	**–**	**–**	**–**	**SV216**	**FOV6**	**FIBER**
FOB19	**1**	**2"**	**②**		**⑱**		**SV216**	**SV217**	**FIBER**
FOB20	**1**	**2"**	**②⑩**		**⑱**		**SV217**	**POLE WYL02**	**FIBER**
FOB21	**4**	**4"**	**②**		**㉑**		**SV214**	**SV216**	**FIBER**
FOB22	**1**	**2"**	**②**		**⑱**		**SV214**	**SV215**	**FIBER**
FOB23	**1**	**2"**	**②⑩**		**⑱**		**SV215**	**POLE WYL01**	**FIBER**
FOB24	**4**	**4"**	**②**		**⑳**		**SV213**	**SV214**	**FIBER**
FOB25	**1**	**2"**	**②**		**㉖**		**FOV7**	**CPV7**	**FIBER**
FOB26	**1**	**2"**	**②**		**㉘**		**FOV7**	**CPV6**	**FIBER**
FOB27	**1**	**2"**	**②**		**㉙**		**SV213**	**FOV7**	**FIBER**
FOB28	**4**	**4"**	**②**		**㉛**		**SV212**	**SV213**	**FIBER**
FOB29	**4**	**4"**	**②**		**⑲**		**SV210**	**SV212**	**FIBER**
FOB30	**1**	**2"**	**②**	**–**	**–**		**SV210**	**FOV8**	**FIBER**
FOB31	**1**	**2"**	**②**		**⑱**		**SV210**	**SV211**	**FIBER**
FOB32	**1**	**2"**	**②⑩**	**–**	**⑱**	**–**	**SV211**	**POLE YL05**	**FIBER**
FOB33	**1**	**2"**	**②⑩**	**–**	**⑱㉖**	**–**	**IT ROOM**	**J-BOX**	**FIBER**
FOB34	**4**	**4"**	**②**		**⑰**		**SV210**	**SV224**	**FIBER**
FOB35	**4**	**4"**	**②**		**㉕**		**SV223**	**SV132**	**FIBER**
FOB36	**4**	**4"**	**②**		**⑯**		**SV110**	**SV224**	**FIBER–COPPER**
FOB37	**4**	**4"**	**②**		**⑮**		**SV224**	**SV225**	**FIBER–COPPER**
FOB38	**4**	**4"**	**②⑩**		**⑬**		**SV225**	**IT ROOM**	**FIBER–COPPER**
FOB39	**1**	**2"**	**②⑩**		**⑭**		**SV225**	**SUB #8410**	**FIBER**
FOB40	**1**	**2"**	**②**	**–**	**–**	**–**	**FOV4**	**SHORE PWR VAULT SSB3**	**FIBER**
FOB41	**2**	**2"**	**②**		**㉙**		**SV218**	**HH #WCV1**	**FIBER**
FOB42	**1**	**2"**	**②**	**–**	**–**	**–**	**FOV6**	**SHORE PWR VAULT SSB4**	**FIBER**
FOB43	**1**	**2"**	**②**	**–**	**–**	**–**	**FOV8**	**SHORE PWR VAULT SSB5**	**FIBER**
FOB44	**1**	**2"**	**⑩**	**–**	**⑱㉖**	**–**	**J-BOX**	**COMM CAB TO POLE YL01**	**FIBER**
FOB45	**1**	**2"**			**⑭**		**SV112**	**POLE YL08**	**FIBER**
GC1	1			–	–	–	GCV1	GCV2	⑧
GC2	1	1"	②	–	–	–	GCV2	GCV3	
GC3	1	1"	②	–	–	–	GCV3	GCV4	
GC4	1	1"	②	–	–	–	GCV4	GATE INTERCOM/CARD READER	
GP1	1	1"	②	3/1	8/10	XHHW-2	GPV1	GPV2	⑧
GP2	1	1"	②	3/1	8/10	XHHW-2	GPV2	GPV3	
GP3	1	1"	②	3/1	8/10	XHHW-2	GPV3	GPV4	
GP4	1	1"	②	3/1	8/10	XHHW-2	GPV4	GATE CONTROLLER	
P50	**1**	**2-1/2"**	**②**	**4/1**	**000/2**	**XHHW-2**	**PANEL H1**	**SUBSTATION 8431, SWBD #1**	⑫
P51	**1**	**2-1/2"**	**②**	**4/1**	**000/2**	**XHHW-2**	**PANEL H1**	**SUBSTATION 8431, SWBD #1**	⑫
P52	**1**	**2-1/2"**	**②**	**4/1**	**000/2**	**XHHW-2**	**PANEL H1**	**SUBSTATION 8431, SWBD #1**	⑫

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
PD1	6	5"	②	–	–	–	TPUPV1	TPUPV2	⑧
PD2	6	5"	②	–	–	–	TPUPV2	TPUPV3	
PD3	6	5"	②	–	–	–	TPUPV3	TPUPV4	
PD4	6	5"	②	–	–	–	TPUPV4	STUB AT WHARF	
PD5	–	–	–	–	–	–	–	–	NOT USED
PD6	–	–	–	–	–	–	–	–	NOT USED
PD7	2	5"	②③	–	–	–	EXISTING TCL SWITCH	TCL METERING SECTION	⑤ ⑧
PD8	–	–	–	–	–	–	–	–	NOT USED
PD9	4	5"	②	–	–	–	TPUPV6	TPUPV7	⑧
PD10	4	5"	②	–	–	–	TPUPV7	TPUPV8	
PD11	4	5"	②	–	–	–	TPUPV8	VAULT 2127V	
PD12	4	5"	②	–	–	–	TPUPV4	TPUPV9	
PD13	2	5"	②③	–	–	–	TCL METERING SECTION	TRANSFORMER WY1	⑤
PD14	4	5"	②③	–	–	–	TPUPV4	NEW WHARF	
PD15	2	5"	②	–	–	–	EXISTING TPU XFMR	TPUPV10	
PD16	2	5"	②	–	–	–	TPUPV10	1500KVA XFMR (SUBSTATION #8411)	
PD1 THRU PD11									⑨
PD17	**1**	**4"**	**②**	**3/1**	**2/2**	**15KV/600V**	**PDV12**	**13.8KV–480V XFMR**	**13.8KV–480V SITE XFMR**
PD18	**1**	**4"**	**②**	**3/1**	**2/2**	**15KV/600V**	**PDV11**	**PDV12**	**13.8KV–480V SITE XFMR**
PD19	**1**	**4"**	**②**	**3/1**	**2/2**	**15KV/600V**	**PDV10**	**PDV11**	**13.8KV–480V SITE XFMR**
PD20	**1**	**4"**	**②**	**3/1**	**2/2**	**15KV/600V**	**PDV15**	**PDV10**	**13.8KV–480V SITE XFMR**
PD21	**1**	**4"**	**②**	**–**	**–**	**–**	**PDV13**	**PDV14**	**REEFER 13.8KV XFMR**
PD22	**1**	**4"**	**②**	**–**	**–**	**–**	**PDV16**	**PDV13**	**REEFER 13.8KV XFMR**
PD23	**1**	**4"**	**②⑩**	**–**	**–**	**–**	**SWITCH F3**	**PDV16**	**REEFER 13.8KV XFMR**
PD24	**1**	**4"**	**②⑩**	**3/1**	**2/2**	**15KV/600V**	**SWITCH F10**	**PDV15**	**13.8KV–480V SITE XFMR**
PD25	**4**	**5"**	**⑩**	**3**	**350**	**15KV**	**15KV FUSED SWITCH**	**15KV SWITCHGEAR**	
TPUC1	1	4"	②	–	–	–	TPUCV1	TPUCV2	⑧
TPUC2	1	4"	②	–	–	–	TPUCV2	TPUCV3	
TPUC3	1	4"	②	–	–	–	TPUCV3	TPUCV4	
TPUC4	1	4"	②	–	–	–	TPUCV4	TPUCV9	
TPUC5	1	4"	②	–	–	–	TPUCV5	TPUPV6	
TPUC6	1	4"	②	–	–	–	TPUPV6	TPUPV7	
TPUC7	1	4"	②	–	–	–	TPUPV7	TPUPV8	
TPUC8	1	4"	②	–	–	–	TPUPV8	STUBBED AT TPU DUCTBANK	④
TPUC9	1	4"	②	–	–	–	STUB AT EXISTING TPU XFMR	TPUCV10	
TPUC10	1	4"	②	–	–	–	TPUCV10	SWITCHBOARD (SUBSTATION #8411)	
TPUC11	1	4"	②③	–	–	–	TPUCV5	TCL METERING SECTION	⑤
TPUC12	1	4"	②③	–	–	–	TPUCV5	CT CAN	⑤
TPUC1 THRU TPUC5									⑨
TPUC15	**4**	**5"**	**②**				**1419MH, PVP27**	**TPUPV11**	**TPU SERVICE CONDUITS**
TPUC16	**4**	**5"**	**②**				**TPUPV11**	**TPUMV3**	**TPU SERVICE CONDUITS**
TPUC17	**4**	**5"**	**②⑩**	**3**	**350**	**15KV**	**TPUMV3**	**SUBSTATION #8410 15KV SWITCH**	**TPU SERVICE CONDUITS**
TPUC18	**4**	**5"**	**②**				**TPUPV11**	**TPUMV4**	**TPU SERVICE CONDUITS**
TPUC19	**4**	**5"**	**②**				**TPUMV4**	**VTM5**	**TPU SERVICE CONDUITS**

GENERAL NOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323–04.

② PVC SHCEDULE 80.

③ GRS CONDUIT.

SCHEDULE KEY NOTES

④ CONDUIT(S) CUT. ABANDONED IN PLACE.

⑤ COORDINATE WORK WITH TACOMA POWER.

⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

⑧ CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

SCHEDULE KEY NOTES

⑨ CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

⑩ PVC COATED GRS CONDUIT.

⑪ EXTEND DUCTBANK TO VAULT SV212.

⑫ EXTEND CONDUITS TO MARINE OPS BUILDING.

SCHEDULE KEY NOTES

⑬ PROVIDE (1) 12–PR COPPER CABLE, (2) 144–FIBER SM FO CABLES, (9) 12–FIBER SM FO CABLE, (9) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

⑭ PROVIDE (1) 6–FIBER SM FO CABLE. PROVIDE (1) 3–CELL FABRIC INNERDUCT.

⑮ PROVIDE (1) 12–PR COPPER CABLE, (2) 144–FIBER SM FO CABLES, (9) 12–FIBER SM FO CABLE, (8) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

⑯ PROVIDE (1) 12–PR COPPER CABLE, (1) 144–FIBER SM FO CABLE, (1) 6–FIBER SM FO CABLE. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

⑰ PROVIDE (1) 144–FIBER SM FO CABLE, (9) 12–FIBER SM FO CABLE, (7) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

⑱ PROVIDE (1) 6–FIBER SM FO CABLE. PROVIDE 3–CELL FABRIC INNERDUCT IN 2" CONDUIT.

⑲ PROVIDE (1) 144–FIBER SM FO CABLE, (9) 12–FIBER SM FO CABLE, (6) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

⑳ PROVIDE (1) 144–FIBER SM FO CABLE, (5) 12–FIBER SM FO CABLE, (5) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

SCHEDULE KEY NOTES

㉑ PROVIDE (1) 144–FIBER SM FO CABLE, (5) 12–FIBER SM FO CABLE, (4) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

㉒ PROVIDE (1) 144–FIBER SM FO CABLE, (1) 12–FIBER SM FO CABLE, (3) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

㉓ PROVIDE (1) 144–FIBER SM FO CABLE, (2) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

㉔ PROVIDE (1) 144–FIBER SM FO CABLE, (1) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

㉕ PROVIDE (1) 144–FIBER SM FO CABLE. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

㉖ PROVIDE (1) 12–FIBER SM FO CABLE. PROVIDE 3–CELL FABRIC INNERDUCT IN 2" CONDUIT.

㉗ ONE CONDUIT TO EACH COMM CAB ON THE POLE.

㉘ PROVIDE (2) 12–FIBER SM FO CABLES. PROVIDE 3–CELL FABRIC INNERDUCT IN 2" CONDUIT.

㉙ PROVIDE (4) 12–FIBER SM FO CABLES. PROVIDE 3–CELL FABRIC INNERDUCT IN EACH 2" CONDUIT.

㉚ PROVIDE (1) 144–FIBER SM FO CABLE, (5) 12–FIBER SM FO CABLE, (3) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

㉛ PROVIDE (1) 144–FIBER SM FO CABLE, (9) 12–FIBER SM FO CABLE, (5) 6–FIBER SM FO CABLES. PROVIDE (2) 3–CELL FABRIC INNERDUCTS IN EACH 4" DUCT.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED: | DATE: | APPR: | BY: | REVISION: | MARK:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

CONDUIT AND CONDUCTOR SCHEDULE

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS:ONE
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

6552

E8.2

SH 166 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E802

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
RR1	1	2.5"	②③	3/1	0000/6	XHHW-2	BR1	SWITCHBOARD #8411	⑧
RR2	1	2.5"	②③	3/1	0000/6	XHHW-2	BR2	BR1	
RR3	1	2.5"	②③	3/1	0000/6	XHHW-2	BR3	SWITCHBOARD #8411	
RR4	1	2.5"	②③	3/1	0000/6	XHHW-2	BR4	BR3	
RR5	1	2.5"	②③	3/1	0000/6	XHHW-2	BR5	BR6	
RR6	1	2.5"	②③	3/1	0000/6	XHHW-2	BR6	VAULT RV1	
RR7	1	2.5"	②③	3/1	0000/6	XHHW-2	BR7	VAULT RV1	
RR8	1	2.5"	②③	3/1	0000/6	XHHW-2	BR8	BR7	
RR9	1	2.5"	②③	3/1	0000/6	XHHW-2	BR9	VAULT RV1	
RR10	1	2.5"	②③	3/1	0000/6	XHHW-2	BR10	BR9	
RR11	1	2.5"	②③	3/1	0000/6	XHHW-2	BR11	VAULT RV1	
RR12	1	2.5"	②③	3/1	0000/6	XHHW-2	BR12	BR11	
RR13	1	2.5"	②③	3/1	0000/6	XHHW-2	BR13	BR12	
RR14	1	2.5"	②③	3/1	0000/6	XHHW-2	BR14	VAULT RV2	
RR15	1	2.5"	②③	3/1	0000/6	XHHW-2	BR15	VAULT RV2	
RR16	1	2.5"	②③	3/1	0000/6	XHHW-2	BR16	BR15	
RR17	1	2.5"	②③	3/1	0000/6	XHHW-2	BR17	VAULT RV2	
RR18	1	2.5"	②③	3/1	0000/6	XHHW-2	BR18	BR17	
RR19	1	2.5"	②③	3/1	0000/6	XHHW-2	BR19	VAULT RV2	
RR20	1	2.5"	②③	3/1	0000/6	XHHW-2	BR20	BR19	
RR21	1	2.5"	②③	3/1	0000/6	XHHW-2	BR21	VAULT RV2	
RR22	4	2.5"	②	3/1	0000/6	XHHW-2	RV2	VAULT RV1	
RR23	5	2.5"	②	3/1	0000/6	XHHW-2	RV1	SWITCHBOARD #8411	
WG1	1	1"	③	1	4	BARE CU	CRANE RAIL	CRANE RAIL	⑧
WG2	1	1"	③	1	4	BARE CU	CRANE RAIL	CRANE RAIL	
WG3	1	1"	③	1	4	BARE CU	CRANE RAIL	CRANE RAIL	
WG1 THRU WG16									⑨
WP1	1	4"	②③	–	–	–	CPV1	PV202	PIER 3 ⑧
WP2	1	4"	②③	–	–	–	CPV2	PV202	
WP3	1	4"	②③	–	–	–	CPV3	PV202	
WP4	1	4"	②③	–	–	–	CPV4	PV202	
WP5	6	4"	②	–	–	–	PV202	PV201	
WP6	1	4"	②④	–	–	–	5KV SWITCHES		
WP7	1	4"	②④	–	–	–	5KV SWITCHES		
WP8	1	4"	④③	–	–	–	5KV SWITCHES		
WP9	1	4"	②③	–	–	–	5KV SWITCHES		
HSC1	1	4"	②	–	–	–	T4 MARINE BUILDING	SV202	⑧
HSC2	1	4"	②	–	–	–	SV202	SV201	
HSC4	1	4"	②	–	–	–		SV119	
HSC5	1	4"	②	–	–	–	PV119	SV108	
HSC6	1	4"	②	–	–	–	SV108	SV109	
HSC7	1	2"	②	–	–	–	SV109	CAMERA ON WOOD POLE	
WIFIC1	2	4"	②		⑭		HUSKY ADMIN. BUILDING	SV103	①⑧
WIFIC2	2	4"	②		⑯		SV103	SV116	
WIFIC3	2	4"	②		⑯		SV116	SV115	
WIFIC4	1	4"	②		⑰		SV115	SV117	
WIFIC5	2	4"	②		⑯		SV115	SV114	
WIFIC6	1	4"	②		⑱		SV114	OUTGATE COMM. ROOM	
WIFIC7	2	4"	②		⑲		SV114	SV113	
WIFIC8	2	4"	②		⑲		SV113	SV104	
WIFIC9	2	4"	②		⑲		SV104	SV101	
WIFIC10	1	4"	②		⑳		SV101	MAINTENANCE BUILDING	
WIFIC11	2	4"	②		㉑		SV101	SV203	
WIFIC12	2	4"	②		㉑		SV203	SV204	
WIFIC13	2	4"	②		㉑		SV204	SV136	
WIFIC14	1	2"	②		㉒		SV136	WIFI MONO POLE	
WIFIC15	1	4"	②		㉑		SV136	SV135	
WIFIC16	1	4"	②		㉑		SV135	SV134	
WIFIC17	1	4"	②		㉑		SV134	SV132	
WIFIC18	1	4"	②	–	–	–	SV132	SV129	
WIFIC19	1	4"	②	–	–	–	SV129	EXISTING T3 MARINE BUILDING	
WIFIC20	1	2"	②	–	–	–	SV117	EXISTING YL25 WIFI ANTENNA AP-1	
WIFIC21	1	4"	②		⑮		SV103	SV110	
WIFIC22	1	4"	②	–	–	–	SV110	SV109	④ SEE CONDUIT FOB36
WIFIC23	1	2"	②	–	–	–	SV109	WIFI ANTENNA AP-2	
WIFIC24	1	4"	②	–	–	–	SV109	SV108	
WIFIC25	1	4"	②	–	–	–	SV108	SV119	
WIFIC26	1	4"	②	–	–	–	SV119		
WIFIC28	1	4"	②	–	–	–	SV201	SV202	
WIFIC29	1	4"	②	–	–	–	SV202	T4 MARINE BUILDING	

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
WIFIP1	1	2"	②③	2/1	6/10	XHHW-2	PANEL 4G	PV114	⑧
WIFIP2	1	4"	②③	2/1	6/10	XHHW-2	PV114	PV115	
WIFIP3	1	4"	②③	2/1	6/10	XHHW-2	PV115	PV119	
WIFIP4	1	2"	②③	2/1	6/10	XHHW-2	PANEL 4BR	PV122	
WIFIP5	1	4"	②③	2/1	6/10	XHHW-2	PV122	PV123	
WIFIP6	1	4"	②③	2/1	6/10	XHHW-2	PV123	PV124	
WIFIP7	1	4"	②③	2/1	6/10	XHHW-2	PV124	PV125	
WIFIP8	1	4"	②③	2/1	6/10	XHHW-2	PV122	PV121	
WIFIP9	1	4"	②③	2/1	6/10	XHHW-2	PV121	PV120	
WIFIP10	1	2"	②④	–	–	–	PANEL 2WX		
WIFIP12	1	4"	②④	–	–	–		PV119	④
WIFIP13	1	4"	④③	2/1	6/10	XHHW-2	PV119	PV108	
WIFIP14	1	4"	②③	2/1	6/10	XHHW-2	PV108	PV109	
WIFIP15	1	1"	③	2/1	6/8	XHHW-2	PANEL 4WA	PULLBOX T1	MPZ ON WOOD POLE
WIFIP16	1	1"	③	2/1	6/8	XHHW-2	PULLBOX T1	PULLBOX T2	
WIFIP17	1	1"	③	2/1	6/8	XHHW-2	PULLBOX T2	PULLBOX T3	
WIFIP18	1	2"	②④	2/1	6/8	XHHW-2	PULLBOX T3	PV119	
WIFIP10	**1**	**2"**	**②⑩**	**2/1**	**8/8**	**XHHW-2**	**SDV22**	**LTG POLE #WYL05 COMM CAB**	**COMM CAB REC**
WIFIP11	**1**	**2"**	**②**	**2/1**	**8/8**	**XHHW-2**	**SDV21**	**SDV22**	**COMM CAB REC**
WIFIP12	**1**	**2"**	**②**	**2/1**	**8/8**	**XHHW-2**	**SDV19**	**SDV21**	**COMM CAB REC**
WIFIP13	**1**	**2"**	**②⑩**	**2/1**	**10/10**	**XHHW-2**	**SDV20**	**LTG POLE #WYL04 COMM CAB**	**COMM CAB REC**
WIFIP14	**1**	**2"**	**②**	**2/1**	**10/10**	**XHHW-2**	**SDV19**	**SDV20**	**COMM CAB REC**
WIFIP15	**1**	**2"**	**②**	**4/1**	**10/10**	**XHHW-2**	**SDV18**	**SDV19**	**COMM CAB REC**
WIFIP16	**1**	**2"**	**②⑩**	**4/1**	**10/10**	**XHHW-2**	**SDV18**	**MPZ-YL03**	**COMM CAB REC**
WIFIP17	**1**	**2"**	**②⑩**	**2/1**	**10/10**	**XHHW-2**	**SDV11**	**LTG POLE #WYL01 COMM CAB**	**COMM CAB REC**
WIFIP18	**1**	**2"**	**②**	**2/1**	**10/10**	**XHHW-2**	**SDV10**	**SDV11**	**COMM CAB REC**
WIFIP19	**1**	**2"**	**②**	**2/1**	**10/10**	**XHHW-2**	**SDV9**	**SDV10**	**COMM CAB REC**
WIFIP20	**1**	**2"**	**②**	**2/1**	**10/10**	**XHHW-2**	**SDV8**	**SDV9**	**COMM CAB REC**
WIFIP21	**1**	**2"**	**②**	**2/1**	**10/10**	**XHHW-2**	**SDV7**	**SDV8**	**COMM CAB REC**
WIFIP22	**1**	**2"**	**②⑩**	**2/1**	**8/8**	**XHHW-2**	**PANEL P42**	**SDV7**	**COMM CAB REC**
WIFIP23	**1**	**4"**	**②**	**2/1**	**8/8**	**XHHW-2**	**PV112**	**SDV12**	**COMM CAB REC**
WIFIP24	**1**	**2"**	**②**	**2/1**	**8/8**	**XHHW-2**	**SDV12**	**SDV13**	**COMM CAB REC**
WIFIP25	**1**	**2"**	**②⑩**	**2/1**	**8/8**	**XHHW-2**	**SDV13**	**LTG POLE #YL05 COMM CAB**	**COMM CAB REC**
WIFIP26	**1**	**2"**	**②⑩**	**2/1**	**8/8**	**XHHW-2**	**LTG POLE #YL08 COMM CAB**	**PV112**	**COMM CAB REC**
L7	1	2"	②	3/1	0/6	XHHW	LIGHTING CTR 1	POLE YL02	⑫ YARD LTG
L7	1	2"	②	3/1	6/8	XHHW	LIGHTING CTR 1	POLE YL02	⑫ SECURITY LTG
L8	1	2"	②	3/1	0/6	XHHW	POLE YL02	POLE YL01	⑬ YARD LTG
L8	1	2"	②	3/1	6/8	XHHW	POLE YL02	POLE YL01	⑬ SECURITY LTG
R5	1	1"	②	3/1	10/10	XHHW	PANEL 2R	POLE YL02	⑫ RECEPTACLE
R6	1	1"	②	2/1	10/10	XHHW	POLE YL02	POLE YL01	⑬ RECEPTACLE

GENERAL NOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.
2. CONTRACTOR TO UPDATE WIFI CONDUIT SHEDULES PER AS-BUILT CONDITIONS.

SCHEDULE KEY NOTES

① CONDUIT IS EXISTING.

② PVC SHCEDULE 80.

③ GRS CONDUIT.

④ CONDUIT(S) CUT. ABANDONED IN PLACE.

⑤ COORDINATE WORK WITH TACOMA POWER.

⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

⑧ CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

⑨ CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

⑩ PVC COATED GRS CONDUIT.

⑪ EXTEND DUCTBANK TO VAULT SV212.

⑫ POLE FORMERLY NUMBERED LP22 (CONTRACT #998040).

⑬ POLE FORMERLY NUMBERED LP23 (CONTRACT #998040).

SCHEDULE KEY NOTES

⑭ EXISTING (3) 50-PR COPPER CABLES, (3) 12-FIBER MM FO CABLES, (2) 12-FIBER SM FO CABLES, (1) 6-FIBER SM FO CABLE. PROVIDE (1) 12-PR COPPER CABLE, (2) 144-FIBER SM FO CABLES, (1) 6-FIBER SM FO CABLE. PROVIDE (2) 3-CELL MAXCELL INNERDUCTS IN EACH EMPTY CONDUIT.

⑮ PROVIDE (1) 12-PR COPPER CABLE, (1) 144-FIBER SM FO CABLE, (1) 6-FIBER SM FO CABLE. PROVIDE (2) 3-CELL MAXCELL INNERDUCTS IN EACH EMPTY 4" CONDUITS.

⑯ EXISTING (3) 50-PR COPPER CABLES, (3) 12-FIBER MM FO CABLES, (1) 12-FIBER SM FO CABLE, (1) 6-FIBER SM FO CABLE. PROVIDE (1) 144-FIBER SM FO CABLE. PROVIDE (2) 3-CELL MAXCELL INNERDUCTS IN EACH EMPTY CONDUIT.

⑰ EXISTING (2) 6-FIBER SM FO CABLES.

⑱ EXISTING (1) 50-PR COPPER CABLE, (1) 12-FIBER MM FO CABLE.

⑲ EXISTING (2) 50-PR COPPER CABLES, (2) 12-FIBER MM FO CABLE, (1) 12-FIBER SM CABLE, (1) 6-FIBER SM FO CABLE. PROVIDE (1) 144-FIBER SM FO CABLE. PROVIDE (2) 3-CELL MAXCELL INNERDUCTS IN EACH EMPTY CONDUIT.

⑳ EXISTING (1) 50-PR COPPER CABLE, (1) 12-FIBER MM FO CABLE, (1) 6-FIBER SM FO CABLE.

㉑ EXISTING (1) 50-PR COPPER CABLE, (1) 12-FIBER MM FO CABLE, (1) 12-FIBER SM FO CABLE. PROVIDE (1) 144-FIBER SM FO CABLE. PROVIDE (2) 3-CELL MAXCELL INNERDUCTS IN EACH EMPTY CONDUIT.

㉒ EXISTING (1) 12-FIBER SM FO CABLE.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
18300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5222
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY DATE

PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

6552
E8.3
SH 167 OF 499

CONT/CONS: 0701.36
M. ID: 091251
PHASE: CONFORMED

TOWNSHIP:
RANGE:
SECTION:
DAT-HRZ: WA83-SF
VERT: MLLW 19.39' @ Tide 22 1933
PARCEL:
DRAWING SCALE: AS NOTED

PRINTED BY: angel Jun 28, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E803

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SD1	1	2.5"	②④	3/1	0000/6	XHHW-2	PANEL 4MX	VAULT PV106	④ ⑧
SD2	1	2.5"	②③	3/1	0000/6	XHHW-2	VAULT PV106	PANEL 4MX	④
SD3	1	4"	②③	4	600	XHHW-2	SUBSTATION #4 SWBD #1	PV102	
SD4	1	4"	②	4	600	XHHW-2	PV102	PV103	
SD5	1	4"	②	4	600	XHHW-2	PV103	PV104	
SD6	1	4"	②	4	600	XHHW-2	PV104	PV113	
SD7	1	4"	②	4	600	XHHW-2	PV113	PV114	
SD8	1	4"	②	4	600	XHHW-2	PV114	PANEL 4G	
SD9	1	4"	②③	4	250	XHHW-2	SUBSTATION #4 SWBD #1	PV101	
SD10	1	4"	②	4	250	XHHW-2	PV101	PANEL 4M	
SD11	1	.75"	③	2/1	10/12	XHHW-2	PANEL 4G	OG LIGHTING PANEL	HEATER
SD12	1	2"	②③	3/1	4/8	XHHW-2	PANEL 4BR	PV122	
SD13	1	2"	②	3/1	4/8	XHHW-2	PV122	PV121	
SD14	1	2"	②	3/1	4/8	XHHW-2	PV121	PV120	
SD15	1	2"	②	3/1	4/8	XHHW-2	PV120	SEWAGE LIFT STATION	
SD16	X	2"	②④	–	–	–	PANEL 4WA		
SD17	–	–	–	–	–	–	–	–	NOT USED
SD21	1	2"	②③	2/1	8/8	XHHW-2	PANEL 2GA	PV114	⑧
SD22	1	2"	②	2/1	8/8	XHHW-2	PV114	PV115	
SD23	1	2"	②	2/1	8/8	XHHW-2	PV115	PV117	
SD24	1	2"	②③	2/1	8/8	XHHW-2	PV117	POLE YL25	
SD25	X	2"	②③	–	–	–	PANEL 2WA		
SD27	1	2"	②③	2/1	8/6	XHHW-2	PV118	SECURITY CAMERA POLE	
SD28	1	1"	②③	2/1	8/8	XHHW-2	PANEL 2BR	PV122	
SD29	1	1"	②	2/1	8/8	XHHW-2	PV122	PV123	
SD30	1	1"	②	2/1	8/8	XHHW-2	PV123	PV124	
SD31	1	1"	②	2/1	8/8	XHHW-2	PV124	PV125	
SD32	1	1"	②	2/1	8/8	XHHW-2	PV125	PV126	
SD33	1	1"	②	2/1	8/8	XHHW-2	PV126	PV202	
SD34	1	1"	②③	2/1	8/8	XHHW-2	PV202	WHARF WATER VAULT	
SD35	5	1"	②③	3/1	8/8	XHHW-2	PANEL 2WA	PV203	
SD36	1	1"	②	3/1	8/8	XHHW-2	PV203	PV204	
SD37	4	1"	②	3/1	8/8	XHHW-2	PV203	PV205	
SD38	2	1"	②	3/1	8/8	XHHW-2	PV205	PV206	
SD39	1	1"	②	3/1	8/8	XHHW-2	PV206	PV207	
SD40	–	–	–	–	–	–	–	–	NOT USED
SD1									
SD2									
SD46	**1**	**3/4"**	**⑩**	**2/1**	**12/12**	**XHHW-2**	**CAPSTAN 120V J-BOX**	**CAPSTAN REC**	**CAPSTAN REC**
SD47	**1**	**1"**	**⑩**	**2/1**	**8/8**	**XHHW-2**	**CAPSTAN 120V J-BOX**	**CAPSTAN LTG FIXT**	**CAPSTAN J-BOX & LTG**
SD48	**1**	**2"**	**②⑩**	**3/1**	**8/8**	**XHHW-2**	**SDV15**	**CAPSTAN 120V J-BOX**	**CAPSTAN LTG & REC**
SD49	**1**	**2"**	**②⑩**	**3/1**	**8/8**	**XHHW-2**	**PANEL HP**	**SDV15**	**CAPSTAN LTG & REC**
SD50	**1**	**2"**	**②⑩⑥**	**3/1**	**4/4**	**XHHW-2**	**SDV15**	**CAPSTAN 480V J-BOX**	**CAPSTAN MOTOR**
SD51	**1**	**2"**	**②**	**3/1**	**4/4**	**XHHW-2**	**SDV14**	**SDV15**	**CAPSTAN MOTOR**
SD52	**1**	**2"**	**②**	**3/1**	**4/4**	**XHHW-2**	**SDV12**	**SDV14**	**CAPSTAN MOTOR**
SD53	**1**	**2"**	**②**	**3/1**	**4/4**	**XHHW-2**	**SDV10**	**SDV12**	**CAPSTAN MOTOR**
SD54	**1**	**2"**	**②**	**3/1**	**4/4**	**XHHW-2**	**SDV9**	**SDV10**	**CAPSTAN MOTOR**
SD55	**1**	**2"**	**②**	**3/1**	**4/4**	**XHHW-2**	**SDV8**	**SDV9**	**CAPSTAN MOTOR**
SD56	**1**	**2"**	**②**	**3/1**	**4/4**	**XHHW-2**	**SDV7**	**SDV8**	**CAPSTAN MOTOR**
SD57	**1**	**2"**	**⑩**	**3/1**	**4/4**	**XHHW-2**	**SWBD P44**	**SDV7**	**CAPSTAN MOTOR**
SD58	**1**	**2"**	**⑥**	**4/1**	**0/6**	**XHHW-2**	**480V-208/120V XFMR**	**PANEL P42**	**PANEL P42**
SD59	**1**	**1"**	**⑥**	**3/1**	**4/8**	**XHHW-2**	**SWBD P44**	**480V-208/120V XFMR**	**480V-208/120V XFMR**
SD60	**4**	**4"**	**⑩**	**4/1**	**600/0**	**XHHW-2**	**13.8KV-480V SITE XFMR**	**SWBD P44**	**SWBD P44**
SD61	**1**	**2"**	**②⑩**	**2/1**	**2/8**	**XHHW-2**	**SDV18**	**MPZ-WYL03**	**MPZ-WYL03**
SD62	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV17**	**SDV23**	**MPZ-WYL03**
SD63	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV16**	**SDV17**	**MPZ-WYL03**
SD64	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV8**	**SDV16**	**MPZ-WYL03**
SD65	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV7**	**SDV8**	**MPZ-WYL03**
SD66	**1**	**2"**	**⑩**	**2/1**	**2/8**	**XHHW-2**	**SWBD P44**	**SDV7**	**MPZ-WYL03**
SD67	**1**	**2"**	**⑩**	**2/1**	**2/8**	**XHHW-2**	**SDV13**	**MPZ-YL05**	**MPZ-YL05**
SD68	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV12**	**SDV13**	**MPZ-YL05**
SD69	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV10**	**SDV12**	**MPZ-YL05**
SD70	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV9**	**SDV10**	**MPZ-YL05**
SD71	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV8**	**SDV9**	**MPZ-YL05**
SD72	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV7**	**SDV8**	**MPZ-YL05**
SD73	**1**	**2"**	**⑩**	**2/1**	**2/8**	**XHHW-2**	**SWBD P44**	**SDV7**	**MPZ-YL05**
SD74	**1**	**2"**	**⑩**	**3/1**	**000/4**	**XHHW-2**	**480V-120/240V XFMR**	**RESTROOM BLDG PANEL**	**RESTROOM BLDG**
SD75									NOT USED
SD76									NOT USED
SD77									NOT USED
SD78	**1**	**2"**	**②**	**2/1**	**1/6**	**XHHW-2**	**SDV7**	**480V-120/240V XFMR**	**RESTROOM BLDG**
SD79	**1**	**2"**	**②⑩**	**2/1**	**1/6**	**XHHW-2**	**SWBD P44**	**SDV7**	**RESTROOM BLDG**
SD80	**1**	**3/4"**	**⑩**	**2/1**	**12/12**	**XHHW-2**	**PANEL P42**	**LTG CONTROL CAB**	**HEATER**
SD81	**1**	**2"**	**②⑩**	**2/1**	**4/8**	**XHHW-2**	**PANEL H1 (MARINE BLDG)**	**MPZ**	**MPZ NEAR POLE YL01**
SD82	**1**	**2"**	**②**	**2/1**	**2/8**	**XHHW-2**	**SDV23**	**SDV18**	**MPZ-WYL03**
SD83	**1**	**3/4"**	**⑦**	**2/1**	**12/12**	**XHHW-2**	**PANEL P42**	**SWBD P44**	**SWBD HEATER**
SD84	**1**	**2"**	**⑩**	**⑫**	**⑫**	**XHHW-2**	**LIFT STATION CONTROL CONTROLLER**	**LIFTSTATION**	
SD85	**1**	**2"**	**⑩**	**8**	**14**	**XHHW-2**	**LIFT STATION CONTROL CONTROLLER**	**LIFTSTATION**	
SD86	**1**	**2"**	**⑩**	**⑫**	**⑫**	**XHHW-2**	**LIFT STATION CONTROL CONTROLLER**	**LIFTSTATION**	

GENERALNOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

(1) SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.

(2) PVC SHCEDULE 80.

(3) GRS CONDUIT.

(4) CONDUIT(S) CUT. ABANDONED IN PLACE.

(5) COORDINATE WORK WITH TACOMA POWER.

(6) PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

(7) LIQUID TIGHT FLEXIBLE METAL CONDUIT.

(8) CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

(9) CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

(10) PVC COATED GRS CONDUIT.

(11) EXTEND DUCTBANK TO VAULT SV212.

(12) CONDUIT TO CONTAIN 3#10, #10G AND 3#14, #14G.

RECORD DRAWINGS

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
15300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

	CHECKED BY	DATE
DIRECTOR ENG.		
PRINTED BY:	angel	Jun 28, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

TOWNSHIP:	RANGE:	SECTION:	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
E8.4
SH 168 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E804

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SL1	4	2"	③	3/1	0/6	XHHW-2	PANEL 4C	LIGHTING CONTROL OG	⑧
SL2	4	2"	②③	3/1	0/6	XHHW-2	LIGHTING CONTROL OG	PV114	
SL3	2	2"	②③	3/1	0/6	XHHW-2	PV114	PV113	
SL4	2	2"	②③	3/1	0/6	XHHW-2	PV113	POLE YL09	
SL5	2	2"	②③	3/1	0/6	XHHW-2	PV113	PV112	
SL6	2	2"	②③	3/1	0/6	XHHW-2	PV112	POLE YL08	⑫
SL7	3	2"	②③	3/1	0/6	XHHW-2	PV114	PV115	
SL8	2	2"	②③	3/1	0/6	XHHW-2	PV115	POLE YL10	
SL9	2	2"	②③	3/1	0/6	XHHW-2	PV115	PV117	
SL10	1	2"	②③	3/1	0/6	XHHW-2	PV117	POLE YL25	
SL11	2	2"	②③	3/1	0/6	XHHW-2	PV115	PV116	
SL12	2	2"	②③	3/1	0/6	XHHW-2	PV116	POLE YL11	
SL13	2	2"	②③	3/1	0/6	XHHW-2	PV115	PV111	
SL14	2	2"	②③	3/1	0/6	XHHW-2	PV111	POLE YL07	
SL15	2	2"	②③	3/1	0/6	XHHW-2	PV111	PV110	
SL16	2	2"	②③	3/1	0/6	XHHW-2	PV110	POLE YL06	
SL17	2	2"	②③	3/1	0/6	XHHW-2	PV110	PV109	④
SL18	2	2"	②③	3/1	0/6	XHHW-2	PV109	POLE YL05	④
SL19	4	2"	②③	3/1	0/6	XHHW-2	PANEL 4BR	LIGHTING CONTROL PANEL	
SL20	4	2"	②	3/1	0/6	XHHW-2	LIGHTING CONTROL PANEL	PV122	
SL21	2	2"	②	3/1	0/6	XHHW-2	PV122	PV123	
SL22	2	2"	②	3/1	0/6	XHHW-2	PV123	POLE YL22	
SL23	2	2"	②	3/1	0/6	XHHW-2	PV123	PV124	
SL24	2	2"	②	3/1	0/6	XHHW-2	PV124	POLE YL23	
SL25	2	2"	②	3/1	0/6	XHHW-2	PV124	PV125	
SL26	2	2"	②	3/1	0/6	XHHW-2	PV125	POLE YL24	
SL27	2	2"	②	3/1	0/6	XHHW-2	PV122	PV121	
SL28	2	2"	②	3/1	0/6	XHHW-2	PV121	POLE YL19	
SL29	2	2"	②	3/1	0/6	XHHW-2	PV121	PV120	
SL30	2	2"	②	3/1	0/6	XHHW-2	PV120	POLE YL18	
SL31	2	2"	②	3/1	0/6	XHHW-2	PV122	PV121	
SL32	2	2"	③	3/1	0/6	XHHW-2	PV121	PV130	
SL33	2	2"	②	3/1	0/6	XHHW-2	PV130	POLE YL21	
SL34	2	2"	②	3/1	0/6	XHHW-2	PV130	PV131	
SL35	2	2"	②	3/1	0/6	XHHW-2	PV131	POLE YL20	
SL36	2	2"	②	3/1	0/6	XHHW-2	LIGHTING CONTROL PANEL	PV129	
SL37	2	2"	②	3/1	0/6	XHHW-2	PV129	PV128	
SL38	2	2"	②	3/1	0/6	XHHW-2	PV128	PV127	
SL39	2	2"	②	3/1	0/6	XHHW-2	PV127	POLE WYL10	
SL40	2	2"	②	3/1	0/6	XHHW-2	PV127	PV126	
SL41	2	2"	②	3/1	0/6	XHHW-2	PV126	POLE WYL11	
SL42	2	2"	②	3/1	0/6	XHHW-2	PV119	PV108	
SL43	2	2"	②	3/1	0/6	XHHW-2	PV108	POLE WYL01	
SL44	–	–	–	–	–	–	–	–	NOT USED
SL45	2	2"	②	–	–	–		POLE WYL02	⑧
SL46	2	2"	②	3/1	0/6	XHHW-2	SUBSTATION #8418 LTG. CONT.	PV132	⑧
SL47	–	–	–	–	–	–	–	–	NOT USED
SL48	2	2"	②	3/1	0/6	XHHW-2	PV133	POLE WYL09	⑧
SL49	3	2"	②	3/1	0/6	XHHW-2	SUBSTATION #8418 LTG. CONT.	PV132	
SL50	3	2"	②	3/1	0/6	XHHW-2	PV132	PV134	
SL51	3	2"	②	3/1	0/6	XHHW-2	PV134	PV135	
SL52	2	2"	②	3/1	0/6	XHHW-2	PV135	POLE YL16	
SL53	2	2"	②	3/1	0/6	XHHW-2	PV135	PV136	
SL54	2	2"	②	3/1	0/6	XHHW-2	PV136	POLE YL17	
SL55	3	2"	②③	–	–	–	SUB. #8410 LIGHTING CABINET		
SL56	3	2"	②③	3/1	0/6	XHHW-2	SUB. #8410 LIGHTING CABINET	EXISTING ABOV PULLBOX	
SL57	1	2"	②③	6/1	0/6	XHHW-2	LIGHTING POLE WYL04	VAULT AT BENT 92	YARD & SECURITY LTG ④
SL58	1	1-1/2"	③	3/1	0/6	XHHW-2	LIGHTING CONTROL CABINET	PULLBOX T1	WHARF LTG
SL59	1	2"	③	6/1	0/6	XHHW-2	LIGHTING CONTROL CABINET	PULLBOX T1	YARD & SECURITY LTG
SL60	1	1-1/2"	③	3/1	0/6	XHHW-2	PULLBOX T1	PULLBOX T2	WHARF LTG
SL61	1	2"	③	6/1	0/6	XHHW-2	PULLBOX T1	PULLBOX T2	YARD & SECURITY LTG
SL62	1	2"	②③	3/1	0/6	XHHW-2	PULLBOX T2	LIGHTING POLE WYL02	WHARF LTG
SL63	1	2"	②③	6/1	0/6	XHHW-2	PULLBOX T2	LIGHTING POLE WYL02	YARD & SECURITY LTG
SL64	1	1-1/2"	③	3/1	0/6	XHHW-2	PULLBOX T2	PULLBOX T3	WHARF LTG
SL65	1	2"	③	6/1	0/6	XHHW-2	PULLBOX T2	PULLBOX T3	YARD & SECURITY LTG
SL66	1	2"	②③	3/1	0/6	XHHW-2	PULLBOX T3	PV119	WHARF LTG
SL67	1	2"	②③	6/1	0/6	XHHW-2	PULLBOX T3	PV119	YARD & SECURITY LTG
SL1 THRU SL15									⑨
SL80	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV22**	**POLE WYL05**	**WHARF LTG**
SL81	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV22**	**POLE WYL05**	**YARD LTG**
SL82	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV22**	**POLE WYL05**	**SECURITY LTG**
SL83	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV21**	**SDV22**	**WHARF LTG**
SL84	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV21**	**SDV22**	**YARD LTG**
SL85	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV21**	**SDV22**	**SECURITY LTG**
SL86	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV19**	**SDV21**	**WHARF LTG**
SL87	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV19**	**SDV21**	**YARD LTG**
SL88	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV19**	**SDV21**	**SECURITY LTG**
SL89	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV20**	**POLE WYL04**	**WHARF LTG**
SL90	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV20**	**POLE WYL04**	**YARD LTG**
SL91	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV20**	**POLE WYL04**	**SECURITY LTG**
SL92	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV19**	**SDV20**	**WHARF LTG**
SL93	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV19**	**SDV20**	**YARD LTG**
SL94	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV19**	**SDV20**	**SECURITY LTG**
SL95	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV18**	**SDV19**	**WHARF LTG**
SL96	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV18**	**SDV19**	**YARD LTG**
SL97	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV18**	**SDV19**	**SECURITY LTG**

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SL98	**1**	**2"**	**②⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV18**	**POLE WYL03**	**WHARF LTG**
SL99	**1**	**2"**	**②⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV18**	**POLE WYL03**	**YARD LTG**
SL100	**1**	**2"**	**②⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV18**	**POLE WYL03**	**SECURITY LTG**
SL101	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV17**	**SDV23**	**WHARF LTG**
SL102	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV17**	**SDV23**	**YARD LTG**
SL103	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV17**	**SDV23**	**SECURITY LTG**
SL104	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV16**	**SDV17**	**WHARF LTG**
SL105	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV16**	**SDV17**	**YARD LTG**
SL106	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV16**	**SDV17**	**SECURITY LTG**
SL107	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV8**	**SDV16**	**WHARF LTG**
SL108	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV8**	**SDV16**	**YARD LTG**
SL109	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV8**	**SDV16**	**SECURITY LTG**
SL110	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV13**	**POLE YL05**	**WHARF LTG**
SL111	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV13**	**POLE YL05**	**YARD LTG**
SL112	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV13**	**POLE YL05**	**SECURITY LTG**
SL113	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV12**	**SDV13**	**WHARF LTG**
SL114	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV12**	**SDV13**	**YARD LTG**
SL115	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV12**	**SDV13**	**SECURITY LTG**
SL116	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV10**	**SDV12**	**WHARF LTG**
SL117	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV10**	**SDV12**	**YARD LTG**
SL118	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV10**	**SDV12**	**SECURITY LTG**
SL119	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV11**	**POLE WYL01**	**WHARF LTG**
SL120	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV11**	**POLE WYL01**	**YARD LTG**
SL121	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV11**	**POLE WYL01**	**SECURITY LTG**
SL122	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV10**	**SDV11**	**WHARF LTG**
SL123	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV10**	**SDV11**	**YARD LTG**
SL124	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV10**	**SDV11**	**SECURITY LTG**
SL125	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV9**	**SDV10**	**WHARF LTG**
SL126	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV9**	**SDV10**	**YARD LTG**
SL127	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV9**	**SDV10**	**SECURITY LTG**
SL128	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV8**	**SDV9**	**WHARF LTG**
SL129	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV8**	**SDV9**	**YARD LTG**
SL130	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV8**	**SDV9**	**SECURITY LTG**
SL131	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV7**	**SDV8**	**WHARF LTG**
SL132	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV7**	**SDV8**	**YARD LTG**
SL133	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV7**	**SDV8**	**SECURITY LTG**
SL134	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV7**	**POLE WYL02**	**WHARF LTG**
SL135	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV7**	**POLE WYL02**	**YARD LTG**
SL136	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SDV7**	**POLE WYL02**	**SECURITY LTG**
SL137	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**WHARF CONTACTOR ENCLOSURE**	**SDV7**	**WHARF LTG**
SL138	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**WHARF CONTACTOR ENCLOSURE**	**SDV7**	**YARD LTG**
SL139	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**WHARF CONTACTOR ENCLOSURE**	**SDV7**	**SECURITY LTG**
SL140	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SWBD P44**	**WHARF CONTACTOR ENCLOSURE**	**WHARF LTG**
SL141	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SWBD P44**	**WHARF CONTACTOR ENCLOSURE**	**YARD LTG**
SL142	**1**	**2"**	**⑩**	**3/1**	**0/6**	**XHHW-2**	**SWBD P44**	**WHARF CONTACTOR ENCLOSURE**	**SECURITY LTG**
SL143	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV9**	**LTG POLE #YL12**	**YARD LTG**
SL144	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV9**	**LTG POLE #YL12**	**SECURITY LTG**
SL145	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV23**	**SDV18**	**WHARF LTG**
SL146	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV23**	**SDV18**	**YARD LTG**
SL147	**1**	**2"**	**②**	**3/1**	**0/6**	**XHHW-2**	**SDV23**	**SDV18**	**SECURITY LTG**

GENERAL NOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.

② PVC SHCEDULE 80.

③ GRS CONDUIT.

④ CONDUIT(S) CUT. ABANDONED IN PLACE.

⑤ COORDINATE WORK WITH TACOMA POWER.

⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

⑧ CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

⑨ CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

⑩ PVC COATED GRS CONDUIT.

⑪ EXTEND DUCTBANK TO VAULT SV212.

⑫ PROVIDE 2#10, #10G IN EXISTING CONDUIT FOR COMM CAB LS6 POWER.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK: | REVISION: | BY: | APPR: | DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

TOWNSHIP: | RANGE: | SECTION:
DAT-HRZ: WA83-SF | VERT: MLLW 19.39' @ Tide 22 1933
PARCEL: | DRAWING SCALE: AS NOTED

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

6552
E8.5
SH 169 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E805

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SP1	2	2.5"	②	–	–	–	RV2	RV1	⑧
SP2	2	2.5"	②	–	–	–	RV1	SWITCHBOARD #8411	
SP3	1	4"	②③	–	–	–	EXTERIOR MAINT. BLDG.	SV101	SEE SHEET E1.04
SP4	2	4"	②	–	–	–	SV101	SV102	
SP5	4	4"	②	–	–	–	SV102	SV103	
SP6	4	4"	②	–	–	–	SV103	SV104	
SP7	4	4"	②	–	–	–	SV104	SV105	
SP8	4	4"	②	–	–	–	SV105	SV106	
SP9	2	4"	②③	–	–	–	SV106	NEW BLDG ADDITION	STUB 10' OUTSIDE BUILDING
SP10	3	2.5"	②③	–	–	–	PULLBOX (AT SUB. 8410)	VAULT PV106	
SP11	2	2.5"	②③	–	–	–	VAULT PV106	STUB & CAP AT MARINA BLDG. 14	
SP12	2	4"	②③	–	–	–	SUBSTATION #4 SWBD #1	PV102	
SP13	2	4"	②	–	–	–	PV102	PV103	
SP14	2	4"	②	–	–	–	PV103	PV104	
SP15	2	4"	②	–	–	–	PV104	PV113	
SP16	2	4"	②	–	–	–	PV113	PV114	
SP17	1	4"	②	–	–	–	PV114	PV115	
SP18	2	4"	②	–	–	–	PV115	PV116	
SP19	1	4"	②	–	–	–	PV115	PV117	
SP20	2	4"	②	–	–	–	PV113	PV112	
SP21	2	4"	②	–	–	–	PV112	**SDV12**	⑪
SP22	1	4"	②	–	–	–	PV115	PV111	
SP23	2	4"	②	–	–	–	PV111	PV108	④
SP24	2	4"	②	–	–	–	PV116	PV110	
SP25	1	2"	③	–	–	–	PANEL 4G	OG LIGHTING PANEL	
SP26	1	4"	②	–	–	–	PV110	PV109	④
SP27	–	4"	②	–	–	–	PV108	PV108	
SP28	2	4"	②	–	–	–	SV104	SV113	
SP29	2	4"	②	–	–	–	SV113	SV114	
SP30	1	4"	②	–	–	–	SV114	OUT GATE RM. 102	
SP24	2	4"	②				PV116	PV110	
SP25	1	2"	③	–	–	–	PANEL 4G	OG LIGHTING PANEL	
SP26	2	4"	②	–	–	–	SV110	PV109	
SP27	2	4"	②	–	–	–	PV109	PV108	
SP28	4	4"	②	–	–	–	SV104	SV113	
SP29	4	4"	②	–	–	–	SV113	SV114	
SP30	2	4"	②	–	–	–	SV114	OUT GATE RM. 102	
SP31	2	4"	②	–	–	–	SV114	SV115	
SP32	2	4"	②	–	–	–	SV115	SV116	
SP33	3	4"	②	–	–	–	SV115	SV117	
SP34	4	4"	②	–	–	–	SV113	SV112	
SP35	4	4"	②	–	–	–	SV112	SV212	⑪ **SEE CONDUIT FOB16**
SP36	4	4"	②	–	–	–	SV115	SV111	
SP37	2	4"	②	–	–	–	SV111	SV109	
SP38	3	4"	②	–	–	–	SV103	SV110	
SP39	3	4"	②	–	–	–	SV110	SV109	④ **SEE CONDUIT FOB36**
SP40	2	4"	②	–	–	–	SV108	SV108	
SP41	2	2"	②③	–	–	–	OG LIGHTING PANEL	PV114	
SP42	4	4"	②	–	–	–	SV110	SV111	
SP43	4	4"	②	–	–	–	SV111	SV112	
SP44	1	4"	②	–	–	–	PV110	PV111	
SP45	2	4"	②	–	–	–	PV111	PV112	
SP46	1	.75"	②③	–	–	–	REEFER MONITOR UNIT	PV122	
SP47	2	2"	②	–	–	–	LIGHTING CONTROL PANEL	PV122	
SP48	1	4"	②	–	–	–	PV122	PV123	
SP49	1	4"	②	–	–	–	PV123	PV124	
SP50	1	4"	②	–	–	–	PV124	PV125	
SP51	4	4"	②	–	–	–	SV122	SV123	
SP52	4	4"	②	–	–	–	SV123	SV124	
SP53	4	4"	②	–	–	–	SV124	SV125	
SP54	1	4"	③	–	–	–	PV122	PV121	
SP55	1	4"	②	–	–	–	PV121	PV120	
SP56	4	4"	②	–	–	–	SV122	SV121	
SP57	4	4"	②	–	–	–	SV121	SV120	
SP58	2	4"	②	–	–	–	PV121	PV130	
SP59	4	4"	②	–	–	–	SV121	SV130	
SP60	2	4"	②	–	–	–	PV130	PV131	
SP61	4	4"	②	–	–	–	SV130	SV131	
SP62	4	4"	②	–	–	–	PV120	PV131	
SP63	4	4"	②	–	–	–	SV120	SV131	
SP64	4	4"	②	–	–	–	PV131	PV129	
SP65	4	4"	②	–	–	–	SV131	SV129	
SP66	4	4"	②	–	–	–	PV130	PV128	
SP67	4	4"	②	–	–	–	SV130	SV128	
SP68	4	4"	②	–	–	–	PV125	PV126	
SP69	4	4"	②	–	–	–	SV125	SV126	

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SP70	2	4"	②	–	–	–	PV129	PV128	⑧
SP71	4	4"	②	–	–	–	SV129	SV128	
SP72	2	4"	②	–	–	–	PV128	PV127	
SP73	4	4"	②	–	–	–	SV128	SV127	
SP74	2	4"	②	–	–	–	PV127	PV126	
SP75	4	4"	②	–	–	–	SV127	SV126	
SP76	5	1"	②③	–	–	–	PANEL 2WA		
SP78	1	2"	②③	–	–	–	PANEL 4WA		
SP82	1	4"	②	–	–	–	PV108	PV119	
SP83	2	4"	②	–	–	–	SV108	SV119	
SP84	1	4"	②	–	–	–	PV119		
SP85	2	4"	②	–	–	–	SV119		
SP87	2	4"	②	–	–	–	SV201	SV202	
SP88	2	4"	②③	–	–	–	SV202	MARINE BUILDING 14	
SP89	2	1"	②	–	–	–	PV203	PV204	
SP90	2	2"	②③	–	–	–	SUBSTATION #8427, SWBD #1	PV101	
SP91	3	4"	②	–	–	–	SV129	SV132	
SP92	–	–	–	–	–	–	–	–	NOT USED
SP93	–	–	–	–	–	–	–	–	NOT USED
SP94	2	4"	②	–	–	–	PV132	PV133	⑧
SP95	3	4"	②	–	–	–	SV132	SV134	
SP96	3	4"	②	–	–	–	SV134	SV135	
SP97	3	4"	②	–	–	–	SV135	SV136	
SP98	2	4"	②	–	–	–	SV136	SV204	
SP99	2	4"	②	–	–	–	SV204	SV203	
SP100	2	4"	②	–	–	–	SV203	SV101	
SP101	2	4"	②	–	–	–	(E)P.O.T TELE. VAULT	SV113	
SP102	1	2"	②③	–	–	–	SV117	POLE YL25 (NEMA 4X ENCLOSURE)	
SP103	1	2"	②③	2/1	6/10	XHHW-2	PV117	POLE YL25 (MINI UNIT SUB)	
SP104	1	2"	②③	–	–	–	SV109	WOOD POLE (NEMA 4X ENCLOSURE)	
SP105	1	2"	②③	2/1	6/10	XHHW-2	PV109	WOOD POLE (MINI UNIT SUB)	
SP106	2	2"	②③	–	–	–	SV120	WOOD POLE (NEMA 4X ENCLOSURE)	
SP107	1	2"	②③	2/1	6/10	XHHW-2	PV120	WOOD POLE (MINI UNIT SUB)	
SP108	1	2"	②③	–	–	–	SV136	MONOPOLE (NEMA 4X ENCLOSURE)	
SP109	1	2"	②③	2/1	6/10	XHHW-2	PV136	MONOPOLE (MINI UNIT SUB)	
SP110	1	4"	②③	–	–	–	SV129	EXISTING T3 WHARF BUILDING	
SP111	2	2"	②③	–	–	–	SV125	WOOD POLE (NEMA 4X ENCLOSURE)	
SP112	1	2"	②③	2/1	6/10	XHHW-2	PV125	WOOD POLE (MINI UNIT SUB)	
SP113	2	2"	②③	–	–	–	SV123	WOOD POLE (NEMA 4X ENCLOSURE)	
SP114	1	2"	②③	2/1	6/10	XHHW-2	PV123	WOOD POLE (MINI UNIT SUB)	
SP1 THRU SP58									⑨

SEE CONTINUATION OF SP__ SERIES ON NEXT SHEET

GENERAL NOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

(1) SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323–04.

(2) PVC SHCEDULE 80.

(3) GRS CONDUIT.

(4) CONDUIT(S) CUT. ABANDONED IN PLACE.

(5) COORDINATE WORK WITH TACOMA POWER.

(6) PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

(7) LIQUID TIGHT FLEXIBLE METAL CONDUIT.

(8) CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

(9) CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

(10) PVC COATED GRS CONDUIT.

(11) ONE CONDUIT IS ABANDONED. SEE CONDUIT WIFIP23 FOR WIRING IN OTHER CONDUIT.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5522
FAX (206) 243-5205

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR, ENG. DATE | CHECKED BY DATE

PROJ. ENGR angel Jun 28, 2018

PRINTED BY:

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
E8.6
SH 170 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\6650-041.01\Dwgs\As_BuiltPhase 2\091251-E806

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SP115	1	4"	②	–	–	–	PDV14	CPV4	SPARE CRANE 1
SP116	1	4"	②	–	–	–	PDV13	PDD14	SPARE CRANE 1
SP117	1	4"	②	–	–	–	PDV16	PDV13	SPARE CRANE 1
SP118	1	4"	②	–	–	–	PDV14	CPV4	SPARE CRANE 2
SP119	1	4"	②	–	–	–	PDV13	PDV14	SPARE CRANE 2
SP120	1	4"	②	–	–	–	PDV16	PDV13	SPARE CRANE 2
SP121	1	4"	②	–	–	–	PDV14	CPV5	SPARE CRANE 3
SP122	1	4"	②	–	–	–	PDV13	PDV14	SPARE CRANE 3
SP123	1	4"	②	–	–	–	PDV16	PDV13	SPARE CRANE 3
SP124	1	4"	②	–	–	–	PDV14	CPV5	SPARE CRANE 4
SP125	1	4"	②	–	–	–	PDV13	PDV14	SPARE CRANE 4
SP126	1	4"	②	–	–	–	PDV16	PDV13	SPARE CRANE 4
SP127	1	4"	②	–	–	–	PDV11	CPV6	SPARE CRANE 5
SP128	1	4"	②	–	–	–	PDV10	PDV11	SPARE CRANE 5
SP129	1	4"	②	–	–	–	PDV15	PDV10	SPARE CRANE 5
SP130	1	4"	②	–	–	–	PDV11	CPV6	SPARE CRANE 6
SP131	1	4"	②	–	–	–	PDV10	PDV11	SPARE CRANE 6
SP132	1	4"	②	–	–	–	PDV15	PDV10	SPARE CRANE 6
SP133	1	4"	②	–	–	–	PDV11	CPV7	SPARE FUTURE CRANE 7
SP134	1	4"	②	–	–	–	PDV10	PDV11	SPARE FUTURE CRANE 7
SP135	1	4"	②	–	–	–	PDV15	PDV10	SPARE FUTURE CRANE 7
SP136	1	4"	②	–	–	–	PDV11	CPV7	SPARE FUTURE CRANE 8
SP137	1	4"	②	–	–	–	PDV10	PDV11	SPARE FUTURE CRANE 8
SP138	1	4"	②	–	–	–	PDV15	PDV10	SPARE FUTURE CRANE 8
SP139	1	4"	②	–	–	–	PDV13	PDV14	SPARE CRANE
SP140	1	4"	②	–	–	–	PDV16	PDV13	SPARE CRANE
SP141	1	4"	②	–	–	–	PDV10	PDV11	SPARE CRANE
SP142	1	4"	②	–	–	–	PDV15	PDV10	SPARE CRANE
SP143	1	4"	②	–	–	–	PDV13	PDV14	SPARE REEFER 13.8KV XFMR
SP144	1	4"	②	–	–	–	PDV16	PDV13	SPARE REEFER 13.8KV XFMR
SP145	1	4"	②	–	–	–	PDV12	13.8KV–480V XFMR	13.8KV–480V SITE XFMR
SP146	1	4"	②	–	–	–	PDV11	PDV12	13.8KV–480V SITE XFMR
SP147	1	4"	②	–	–	–	PDV10	PDV11	13.8KV–480V SITE XFMR
SP148	1	4"	②	–	–	–	PDV15	PDV10	13.8KV–480V SITE XFMR
SP149	2	4"	②	–	–	–	PDV13	PDV14	SPARE 13.8KV
SP150	2	4"	②	–	–	–	PDV16	PDV13	SPARE 13.8KV
SP151	1	2"	②⑩	–	–	–	SDV15	CAPSTAN 480V J–BOX	SPARE CAPSTAN DOLPHIN
SP152	1	2"	②	–	–	–	SDV14	SDV15	SPARE CAPSTAN DOLPHIN
SP153	1	2"	②	–	–	–	SDV12	SDV14	SPARE CAPSTAN DOLPHIN
SP154	1	2"	②	–	–	–	SDV10	SDV12	SPARE CAPSTAN DOLPHIN
SP155	1	2"	②	–	–	–	SDV9	SDV10	SPARE CAPSTAN DOLPHIN
SP156	1	2"	②	–	–	–	SDV8	SDV9	SPARE CAPSTAN DOLPHIN
SP157	1	2"	②	–	–	–	SDV7	SDV8	SPARE CAPSTAN DOLPHIN
SP158	1	2"	⑩	–	–	–	SWBD P44	SDV7	SPARE CAPSTAN DOLPHIN
SP159	1	2"	②⑩	–	–	–	SDV15	CAPSTAN 120V J–BOX	SPARE CAPSTAN DOLPHIN
SP160	1	2"	②⑩	–	–	–	PANEL HP	SDV15	SPARE CAPSTAN DOLPHIN
SP161	1	2"	②	–	–	–	SDV19	SDV21	SPARE SITE LTG
SP162	1	2"	②	–	–	–	SDV18	SDV19	SPARE SITE LTG
SP163	1	2"	②	–	–	–	SDV17	SDV23	SPARE SITE LTG
SP164	1	2"	②	–	–	–	SDV16	SDV17	SPARE SITE LTG
SP165	1	2"	②	–	–	–	SDV8	SDV16	SPARE SITE LTG
SP166	1	2"	②	–	–	–	SDV10	SDV12	SPARE SITE LTG
SP167	1	2"	②	–	–	–	SDV9	SDV10	SPARE SITE LTG
SP168	1	2"	②	–	–	–	SDV8	SDV9	SPARE SITE LTG
SP169	1	2"	②	–	–	–	SDV7	SDV8	SPARE SITE LTG
SP170	1	2"	⑩	–	–	–	LTG CONTROL PANEL	SDV7	SPARE SITE LTG
SP171	1	2"	⑩	–	–	–	SDV13	MPZ–YL05	SPARE MPZ–YL05
SP172	1	2"	⑩	–	–	–	SDV13	MPZ–YL05	SPARE MPZ–YL05
SP173	1	2"	②	–	–	–	SDV13	SDV12	SPARE MPZ–YL05
SP174	1	2"	②	–	–	–	SDV13	SDV12	SPARE MPZ–YL05
SP175	1	2"	②	–	–	–	SDV23	SDV18	SPARE SITE LTG
SP176	1	2"	②	–	–	–	CAP NEAR SUB #8410	SDV15	SHORE PWR CTRL
SP177	1	2"	②	–	–	–	SSB5	WPV19	SHORE PWR CTRL
SP178	1	2"	②	–	–	–	WPV19	SDV12	SHORE PWR CTRL
SP179									
SP180	1	2"	②	–	–	–	SDV18	SDV23	SPARE
SP181	1	2"	②	–	–	–	SDV18	SDV23	SPARE
SP182	1	2"	②⑩	–	–	–	SDV18	MPZ–WYL03	SPARE MPZ–WYL03
SP183	1	2"	②⑩	–	–	–	SDV18	MPZ–WYL03	SPARE MPZ–WYL03
SP184	1	2"	⑩	–	–	–	SDV7	PANEL P42	SPARE
SP185	1	2"	⑩	–	–	–	SDV7	PANEL P42	SPARE
SP186	1	2"	②	–	–	–	SDV8	SDV7	SPARE
SP187	1	2"	②	–	–	–	SDV8	SDV7	SPARE
SP188	1	2"	②	–	–	–	SDV16	SDV8	SPARE
SP189	1	2"	②	–	–	–	SDV16	SDV8	SPARE
SP190	1	2"	②	–	–	–	SDV17	SDV16	SPARE
SP191	1	2"	②	–	–	–	SDV17	SDV16	SPARE
SP192	1	2"	②	–	–	–	SDV23	SDV17	SPARE
SP193	1	2"	②	–	–	–	SDV23	SDV17	SPARE
SP194	1	2"	②	–	–	–	SDV19	SDV18	SPARE
SP195	1	2"	②	–	–	–	SDV19	SDV18	SPARE
SP196	1	2"	②	–	–	–	SDV21	SDV19	SPARE
SP197	1	2"	②	–	–	–	SDV21	SDV19	SPARE
SP198	1	2"	②	–	–	–	SDV8	SDV9	SPARE
SP199	1	2"	②	–	–	–	SDV8	SDV9	SPARE
SP200	1	2"	②	–	–	–	SDV9	SDV10	SPARE
SP201	1	2"	②	–	–	–	SDV9	SDV10	SPARE
SP202	1	2"	②	–	–	–	SDV10	SDV12	SPARE
SP203	1	2"	②	–	–	–	SDV10	SDV12	SPARE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SP204	1	2"	②	–	–	–	SDV12	SDV14	SPARE
SP205	1	2"	②	–	–	–	SDV12	SDV14	SPARE
SP206	1	3"	⑩	–	–	–	SWBD P44	SDV7	SPARE
SP207	1	3"	②	–	–	–	SDV7	SDV8	SPARE
SP208	1	3"	②	–	–	–	SDV8	SDV9	SPARE
SP209	1	3"	②	–	–	–	SDV9	SDV10	SPARE
SP210	1	3"	②	–	–	–	SDV10	SDV12	SPARE
SP211	1	3"	②	–	–	–	SDV12	SDV14	SPARE
SP212	1	3"	②	–	–	–	SDV8	SDV16	SPARE
SP213	1	3"	②	–	–	–	SDV16	SDV17	SPARE
SP214	1	2"	②	–	–	–	SSB4	WPV18	SHORE PWR CTRL
SP215	1	2"	②	–	–	–	WPV18	SDV9	SHORE PWR CTRL
SP216	1	2"	②	–	–	–	SSB3	WPV16	SHORE PWR CTRL
SP217	1	2"	②	–	–	–	WPV16	SDV23	SHORE PWR CTRL
SP218	1	4"	②⑩	–	–	–	SWITCH F5	PDV16	SPARE CRANE 1
SP219	1	4"	②⑩	–	–	–	SWITCH F6	PDV16	SPARE CRANE 2
SP220	1	4"	②⑩	–	–	–	SWITCH F7	PDV16	SPARE CRANE 3
SP221	1	4"	②⑩	–	–	–	SWITCH F8	PDV16	SPARE CRANE 4
SP222	1	4"	②⑩	–	–	–	SWITCH F11	PDV15	SPARE CRANE 5
SP223	1	4"	②⑩	–	–	–	SWITCH F12	PDV15	SPARE CRANE 6
SP224	1	4"	②⑩	–	–	–	SWITCH F13	PDV15	SPARE FUTURE CRANE 7
SP225	1	4"	②⑩	–	–	–	SWITCH F14	PDV15	SPARE FUTURE CRANE 8
SP226	1	4"	②⑩	–	–	–	SWITCH F9	PDV16	SPARE CRANE
SP227	1	4"	②⑩	–	–	–	SWITCH F9	PDV15	SPARE CRANE
SP228	1	4"	②⑩	–	–	–	SWITCH F3	PDV16	SPARE REEFER 13.8V XFMR
SP229	1	4"	②⑩	–	–	–	SWITCH F10	PDV15	13.8KV–480V SITE XFMR
SP230	2	4"	②⑩	–	–	–	SWITCH F4	PDV16	SPARE 13.8KV
WG1 THRU WG16			⑨						⑨
WG17	1	3/4"	②	1	4	B–8	VAULT WPV6	CRANE RAIL	
WG18	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG19	1	3/4"	②	1	4	B–8	VAULT WPV7	CRANE RAIL	
WG20	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG21	1	3/4"	②	1	4	B–8	VAULT WPV8	CRANE RAIL	
WG22	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG23	1	3/4"	②	1	4	B–8	VAULT WPV9	CRANE RAIL	
WG24	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG25	1	3/4"	②	1	4	B–8	VAULT WPV10	CRANE RAIL	
WG26	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG27	1	3/4"	②	1	4	B–8	VAULT WPV11	CRANE RAIL	
WG28	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG29	1	3/4"	②	1	4	B–8	VAULT WPV12	CRANE RAIL	
WG30	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG31	1	3/4"	②	1	4	B–8	VAULT WPV13	CRANE RAIL	
WG32	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG33	1	3/4"	②	1	4	B–8	VAULT WPV14	CRANE RAIL	
WG34	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE RAIL	
WG35	1	3/4"	②	1	4	B–8	GROUND TEST WELL	GROUND ROD	RESTROOM BLDG
WG36	1	3/4"	②	1	4	B–8	GROUND ROD	480V–120/240V XFMR	RESTROOM BLDG
WG37	1	3/4"	⑩	1	4	B–8	480V–120/240V XFMR	RESTROOM PANEL	RESTROOM BLDG
WG38	1	3/4"	⑩	1	4	B–8	RESTROOM PANEL	WEATER SERVICE PIPE	RESTROOM BLDG
WG39	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE STOP	
WG40	1	3/4"	②	1	4	B–8	CRANE RAIL	CRANE STOP	

GENERAL NOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

① SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323–04.

② PVC SHCEDULE 80.

③ GRS CONDUIT.

④ CONDUIT(S) CUT. ABANDONED IN PLACE.

⑤ COORDINATE WORK WITH TACOMA POWER.

⑥ PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

⑦ LIQUID TIGHT FLEXIBLE METAL CONDUIT.

⑧ CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

⑨ CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

⑩ PVC COATED GRS CONDUIT.

⑪ EXTEND DUCTBANK TO VAULT SV212.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK: | REVISION: | BY: | APPR: | DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY DATE | PROJ. ENGR DATE

PRINTED BY: angel Jun 28, 2018

PIER 4 PHASE 2
RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS:ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401–1837

6552
E8.7
SH 171 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E807

BINDING EDGE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
SSP1 THRU SSP7									(9)
SSP8	2	5"	(2)	–	–	–	SSPV10	SSB3	SHORE POWER VAULT 3
SSP9	2	5"	(2)	–	–	–	SSPV8	SSPV9	SHORE POWER VAULT 3
SSP10	2	5"	(2)	–	–	–	SSPV8	SSB4	SHORE POWER VAULT 4
SSP11	4	5"	(2)	–	–	–	SSPV7	SSPV8	SHORE POWER VAULTS 3, 4
SSP12	2	5"	(2)	–	–	–	SSPV7	SSB5	SHORE POWER VAULT 5
SSP13	6	5"	(2)	–	–	–	SSPV6	SSPV7	SHORE POWER VAULTS 3,4,5
SSP14	2	5"	(2)	–	–	–	SSPV9	SSPV10	SHORE POWER VAULT 3
TPU1 THRU TPU5									(9)
WS1 THRU WS93									(9)
WS100	1	2"	(2)	2/1	10/10	XHHW-2	HH #WPV15	WATER VAULT	WATER VAULT REC
WS101	1	2"	(2)	2/1	10/10	XHHW-2	HH #WPV15	WATER VAULT	WATER VAULT REC
WS102	1	2"	(2)	2/1	10/10	XHHW-2	HH #WPV16	WATER VAULT	WATER VAULT REC
WS103	1	2"	(2)	6/1	10/10	XHHW-2	SDV18	SDV23	WATER VAULT REC
WS104	1	2"	(2)(10)	6/1	10/10	XHHW-2	MPZ-WYL03	SDV18	WATER VAULT REC
WS105	1	2"	(2)	2/1	10/10	XHHW-2	HH #WPV17	WATER VAULT	WATER VAULT REC
WS106	1	2"	(2)	2/1	10/10	XHHW-2	HH #WPV18	WATER VAULT	WATER VAULT REC
WS107	1	2"	(2)	2/1	10/10	XHHW-2	HH #WPV18	WATER VAULT	WATER VAULT REC
WS108	1	2"	(2)	4/1	10/10	XHHW-2	SDV9	HH #WPV18	WATER VAULT REC
WS109	1	2"	(2)	4/1	10/10	XHHW-2	SDV8	SDV9	WATER VAULT REC
WS110	1	2"	(2)	4/1	10/10	XHHW-2	SDV7	SDV8	WATER VAULT REC
WS111	1	2"	(10)	4/1	10/10	XHHW-2	PANEL P42	SDV7	WATER VAULT REC
WS112	1	2"	(2)	2/1	10/10	XHHW-2	WATER VAULT	HH #WPV19	WATER VAULT REC
WS113	1	2"	(2)	2/1	10/10	XHHW-2	WATER VAULT	HH #WPV19	WATER VAULT REC
WS114	1	2"	(2)	6/1	10/10	XHHW-2	HH #WPV19	SDV12	WATER VAULT REC
WS115	1	2"	(2)	6/1	10/10	XHHW-2	SDV12	SDV13	WATER VAULT REC
WS116	1	2"	(10)	6/1	10/10	XHHW-2	SDV13	MPZ-YL05	WATER VAULT REC
WS117	1	2"	(2)	2/1	10/10	XHHW-2	WATER VAULT	HH #WPV19	WATER VAULT REC
WS118	1	3"	(2)	4/1	250/3	XHHW-2	HH #WPV19	WPV14	BULL RAIL POWER VAULT 14
WS119	1	3"	(2)	4/1	250/3	XHHW-2	SDV12	SDV14	BULL RAIL POWER VAULT 14
WS120	1	3"	(2)	4/1	250/3	XHHW-2	SDV10	SDV12	BULL RAIL POWER VAULT 14
WS121	1	3"	(2)	4/1	250/3	XHHW-2	SDV9	SDV10	BULL RAIL POWER VAULT 14
WS122	1	3"	(2)	4/1	250/3	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 14
WS123	1	3"	(2)	4/1	250/3	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 14
WS124	1	3"	(10)	4/1	250/3	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 14
WS125	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV19	WPV14	BULL RAIL POWER VAULT 14
WS126	1	2"	(2)	4/1	10/10	XHHW-2	SDV12	SDV14	BULL RAIL POWER VAULT 14
WS127	1	2"	(2)	4/1	10/10	XHHW-2	SDV13	SDV12	BULL RAIL POWER VAULT 14
WS128	1	2"	(10)	4/1	10/10	XHHW-2	MPZ-YL05	SDV13	BULL RAIL POWER VAULT 14
WS129	1	2"	(2)	2/1	10/10	XHHW-2	SDV16	HH #WPV17	WATER VAULT REC
WS130	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV10	WPV12	BULL RAIL POWER VAULT 12
WS131	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV9	SDV10	BULL RAIL POWER VAULT 12
WS132	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 12
WS133	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 12
WS134	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 12
WS135	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV19	WPV12	BULL RAIL POWER VAULT 12
WS136	1	2"	(2)	4/1	10/10	XHHW-2	SDV13	SDV12	BULL RAIL POWER VAULT 12
WS137	1	2"	(2)(10)	4/1	10/10	XHHW-2	MPZ-YL05	SPV13	BULL RAIL POWER VAULT 12
WS138	1	2"	(2)	6/1	10/10	XHHW-2	SDV23	HH #WPV16	WATER VAULT REC
WS139	1	2-1/2"	(2)	4/1	0000/3	XHHW-2	HH #WPV19	WPV13	BULL RAIL POWER VAULT 13
WS140	1	2-1/2"	(2)	4/1	0000/3	XHHW-2	SDV10	SDV12	BULL RAIL POWER VAULT 13
WS141	1	2-1/2"	(2)	4/1	0000/3	XHHW-2	SDV9	SDV10	BULL RAIL POWER VAULT 13
WS142	1	2-1/2"	(2)	4/1	0000/3	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 13
WS143	1	2-1/2"	(2)	4/1	0000/3	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 13
WS144	1	2-1/2"	(10)	4/1	0000/3	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 13
WS145	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV16	WPV15	BULL RAIL POWER VAULT 13
WS146	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV19	WPV13	BULL RAIL POWER VAULT 13
WS147	1	2"	(2)	4/1	10/10	XHHW-2	SDV13	SDV12	BULL RAIL POWER VAULT 13
WS148	1	2"	(10)	4/1	10/10	XHHW-2	MPZ-YL05	SDV13	BULL RAIL POWER VAULT 13
WS149	1	2-1/2"	(2)	4/1	00/4	XHHW-2	HH #WPV18	WPV11	BULL RAIL POWER VAULT 11
WS150	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV9	HH #WPV18	BULL RAIL POWER VAULT 11
WS151	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 11
WS152	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 11
WS153	1	2-1/2"	(10)	4/1	00/4	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 11
WS154	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV18	WPV11	BULL RAIL POWER VAULT 11
WS155	1	2"	(2)	4/1	10/10	XHHW-2	SDV9	HH #WPV18	BULL RAIL POWER VAULT 11
WS156	1	2"	(2)	4/1	10/10	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 11
WS157	1	2"	(2)	4/1	10/10	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 11
WS158	1	2"	(10)	4/1	10/10	XHHW-2	PANEL P42	SDV7	BULL RAIL POWER VAULT 11
WS159									

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR NO.	CONDUCTOR SIZE	CONDUCTOR TYPE	FROM	TO	REMARKS
WS160	1	2-1/2"	(2)	4/1	0/6	XHHW-2	HH #WPV18	WPV10	BULL RAIL POWER VAULT 10
WS161	1	2-1/2"	(2)	4/1	0/6	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 10
WS162	1	2-1/2"	(2)	4/1	0/6	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 10
WS163	1	2-1/2"	(10)	4/1	0/6	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 10
WS164	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV18	WPV10	BULL RAIL POWER VAULT 10
WS165	1	2"	(2)	4/1	10/10	XHHW-2	SDV8	SDV9	BULL RAIL POWER VAULT 10
WS166	1	2"	(2)	4/1	10/10	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 10
WS167	1	2"	(10)	4/1	10/10	XHHW-2	PANEL P42	SDV7	BULL RAIL POWER VAULT 10
WS168	1	3"	(2)	4/1	0000/3	XHHW-2	HH #WPV15	WPV6	BULL RAIL POWER VAULT 6
WS169	1	3"	(2)	4/1	0000/3	XHHW-2	SDV17	HH #WPV15	BULL RAIL POWER VAULT 6
WS170	1	3"	(2)	4/1	0000/3	XHHW-2	SDV16	SDV17	BULL RAIL POWER VAULT 6
WS171	1	3"	(2)	4/1	0000/3	XHHW-2	SDV8	SDV16	BULL RAIL POWER VAULT 6
WS172	1	3"	(2)	4/1	0000/3	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 6
WS173	1	3"	(10)	4/1	0000/3	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 6
WS174	1	2"	(2)	4/1	8/8	XHHW-2	HH #WPV15	WPV6	BULL RAIL POWER VAULT 6
WS175	1	2"	(2)	8/1	8/8	XHHW-2	HH #WPV16	HH #WPV15	BULL RAIL PWR VAULTS 6&7
WS176	1	2"	(2)	8/1	8/8	XHHW-2	SDV23	HH #WPV16	BULL RAIL PWR VAULTS 6&7
WS177	1	2"	(2)	8/1	8/8	XHHW-2	SDV18	SDV23	BULL RAIL PWR VAULTS 6&7
WS178	1	2"	(2)(10)	8/1	8/8	XHHW-2	MPZ-WYL03	SDV18	BULL RAIL PWR VAULTS 6&7
WS179	1	2-1/2"	(2)	4/1	000/4	XHHW-2	HH #WPV15	WPV7	BULL RAIL POWER VAULT 7
WS180	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV17	HH #WPV15	BULL RAIL POWER VAULT 7
WS181	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV16	SDV17	BULL RAIL POWER VAULT 7
WS182	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV8	SDV16	BULL RAIL POWER VAULT 7
WS183	1	2-1/2"	(2)	4/1	000/4	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 7
WS184	1	2-1/2"	(10)	4/1	000/4	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 7
WS185	1	2"	(2)	4/1	8/8	XHHW-2	HH #WPV15	WPV7	BULL RAIL POWER VAULT 7
WS186	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV15	HH #WPV16	WATER VAULT REC
WS187									
WS188									
WS189									
WS190	1	2-1/2"	(2)	4/1	00/4	XHHW-2	HH #WPV16	WPV8	BULL RAIL POWER VAULT 8
WS191	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV17	HH #WPV16	BULL RAIL POWER VAULT 8
WS192	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV16	SDV17	BULL RAIL POWER VAULT 8
WS193	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV8	SDV16	BULL RAIL POWER VAULT 8
WS194	1	2-1/2"	(2)	4/1	00/4	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 8
WS195	1	2-1/2"	(10)	4/1	00/4	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 8
WS196	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV16	WPV8	BULL RAIL POWER VAULT 8
WS197	1	2"	(2)	4/1	10/10	XHHW-2	SDV23	HH #WPV16	BULL RAIL POWER VAULT 8
WS198	1	2"	(2)	4/1	10/10	XHHW-2	SDV18	SDV23	BULL RAIL POWER VAULT 8
WS199	1	2"	(2)(10)	4/1	10/10	XHHW-2	MPZ-WYL03	SDV18	BULL RAIL POWER VAULT 8
WS200									
WS201	1	2-1/2"	(2)	4/1	1/8	XHHW-2	HH #WPV17	WPV9	BULL RAIL POWER VAULT 9
WS202	1	2-1/2"	(2)	4/1	1/8	XHHW-2	SDV8	SDV16	BULL RAIL POWER VAULT 9
WS203	1	2-1/2"	(2)	4/1	1/8	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 9
WS204	1	2-1/2"	(10)	4/1	1/8	XHHW-2	SWBD P44	SDV7	BULL RAIL POWER VAULT 9
WS205	1	2"	(2)	4/1	10/10	XHHW-2	HH #WPV17	WPV9	BULL RAIL POWER VAULT 9
WS206	1	2"	(2)	4/1	10/10	XHHW-2	SDV8	SDV16	BULL RAIL POWER VAULT 9
WS207	1	2"	(2)	4/1	10/10	XHHW-2	SDV7	SDV8	BULL RAIL POWER VAULT 9
WS208	1	2"	(10)	4/1	10/10	XHHW-2	PANEL P42	SDV7	BULL RAIL POWER VAULT 9
WS209	1	2-1/2"	(2)	4/1	1/8	XHHW-2	SDV16	HH #WPV17	BULL RAIL POWER VAULT 9
WS210	1	2"	(2)	4/1	10/10	XHHW-2	SDV16	HH #WPV17	BULL RAIL POWER VAULT 9
WS211	1	2-1/2"	(2)	4/1	0/6	XHHW-2	SDV9	HH #WPV18	BULL RAIL POWER VAULT 10
WS212	1	2"	(2)	4/1	10/10	XHHW-2	SDV9	HH #WPV18	BULL RAIL POWER VAULT 10
WS213	1	2-1/2"	(2)	4/1	0000/3	XHHW-2	SDV12	HH #WPV19	BULL RAIL POWER VAULT 13
WS214	1	2"	(2)	8/1	10/10	XHHW-2	SDV12	HH #WPV19	BULL RAIL PWR VAULTS 12,13
WS215	1	3"	(2)	4/1	250/2	XHHW-2	SDV12	HH #WPV19	BULL RAIL POWER VAULT 14
WS216	1	2"	(2)	4/1	10/10	XHHW-2	SDV12	HH #WPV19	BULL RAIL POWER VAULT 14

GENERAL NOTES

1. SEE DRAWING E8.1 FOR LEGEND AND GENERAL NOTES.

SCHEDULE KEY NOTES

(1) SEE SEPARATE HUSKY TERMINAL WIFI SYSTEM PROJECT DRAWINGS FOR COMMUNICATIONS CONDUCTORS AND SITE PLANS. PORT OF TACOMA JOB #6323-04.

(2) PVC SHCEDULE 80.

(3) GRS CONDUIT.

(4) CONDUIT(S) CUT. ABANDONED IN PLACE.

(5) COORDINATE WORK WITH TACOMA POWER.

(6) PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT ALL LIGHT POLE LOCATIONS.

(7) LIQUID TIGHT FLEXIBLE METAL CONDUIT.

(8) CIRCUIT (CONDUIT) NUMBER FROM TERMINAL 3 & 4 REDEVELOPMENT PROJECT, CONTRACT NO. 998203.

(9) CIRCUIT (CONDUIT) NUMBER FROM PIER 3 UPGRADE PROJECT, CONTRACT NO. 069458.

(10) PVC COATED GRS CONDUIT.

(11) EXTEND DUCTBANK TO VAULT SV212.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

ELCON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
16300 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-5022
FAX (206) 243-5205

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. ELCON HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION

CHECKED BY DATE

DIRECTOR ENG. DATE PROJ. ENGR DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

6552
E8.8
SH 172 OF 499

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: angel Jun 28, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\As_Built\Phase 2\091251-E808

BINDING EDGE

GENERAL

1. THESE NOTES CONTAIN GENERAL INFORMATION AND ARE NOT COMPLETE FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE PORT BEFORE BEGINNING AFFECTED WORK. THE ENGINEER WILL RESOLVE ANY SUCH CONFLICT.

2. ALL DIMENSIONS AND DETAILS WILL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.

3. ALL SHOP DRAWINGS FOR PRECAST CONCRETE ELEMENTS, REINFORCING STEEL, MISCELLANEOUS STEEL, AND FENDER SYSTEM SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.

4. VERTICAL DATUM: SEE SHEET G4.1.

CODES AND STANDARDS

1. STRUCTURAL

   A. ALL METHODS AND MATERIALS SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2012 EDITION, AS AMENDED AND ADOPTED BY THE CITY OF TACOMA.

   B. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

   C. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" 2010.

   D. WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE AWS D1.1, 2010.

   E. WELDING OF REINFORCING STEEL SHALL CONFORM TO THE AWS D1.4, 2010.

PILING

1. PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS AND REQUIRED CAPACITIES INDICATED.

REINFORCED CONCRETE

1. REINFORCING STEEL

   A. PRESTRESSING STEEL SHALL BE UNCOATED LOW-RELAXATION SEVEN-WIRE STRAND CONFORMING TO ASTM A 416, GRADE 270.

   B. ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615 – GRADE 60, EXCEPT AS NOTED.

      a. ALL REINFORCING STEEL TO BE WELDED SHALL BE ASTM A 706 – GRADE 60.

      b. DOWEL BARS FOR PILE TO PILE CAP CONNECTIONS SHALL BE ASTM A 706 – GRADE 60.

      c. SPIRAL REINFORCEMENT SHALL BE ASTM A 1064.

      d. ASTM A 615 GRADE 60 REINFORCEMENT SHALL BE PERMITTED FOR USE AS DOWEL BARS FOR PILE TO PILE CAP CONNECTIONS IF THE FOLLOWING ARE MET.

         i. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED Fy BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PSI); AND

         ii. THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.

   C. EPOXY COATED REINFORCING BARS SHALL CONFORM TO ASTM A 934. ALL STAGE 1 SECTIONS INCLUDING PILE CAP, PONY BENTS, SHEET PILE WALL CAP, CIP CRANE BEAM SEGMENTS, AND PRECAST BATTER PILE SUBCAP REINFORCING BARS, INCLUDING STIRRUPS, AND MECHANICAL COUPLERS, BUT EXCLUDING PILE DOWELS AND SPIRALS, SHALL BE EPOXY COATED.

   D. LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. DEFORMED BAR LAP SPLICES SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE SHOWN.

SCHEDULE OF MINIMUM LAP SPLICE LENGTHS

BAR SIZE	f'c = 5000 PSI	
	TOP BARS	OTHER BARS
#4	2'-5"	1'-10"
#5	3'-0"	2'-4"
#6	3'-7"	2'-9"
#7	5'-3"	4'-1"
#8	6'-0"	4'-7"
#9	6'-9"	5'-3"
#10	7'-7"	5'-10"
#11	8'-5"	6'-6"

NOTES:
1. LENGTHS ARE BASED ON CLASS "B", CASE 1 SPLICES (MAX OF 50% OF BARS SPLICED AT ONE LOCATION.
2. TOP BARS ARE DEFINED AS ANY HORIZONTAL BAR PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR.
3. INCREASE LAP SPLICE LENGTH OF EPOXY COATED REINFORCEMENT BY 50%.
4. STAGGER ALL LAP SPLICES IN ADJACENT BARS BY ONE LAP LENGTH +1'-0" MINIMUM.
5. NO MORE THAN 50% OF THE REINFORCING BARS IN ANY LAYER SHALL BE SPLICED AT ONE LOCATION.

   E. PROVIDE CORNER BARS AT ALL CORNERS. CORNER BARS SHALL MATCH THE NUMBER, SPACING AND DIAMETER OF ALL HORIZONTAL REINFORCEMENT AT THE CORNER, UNLESS SHOWN OTHERWISE. TERMINATED STRAIGHT BARS SHALL EXTEND FULL AVAILABLE LENGTH INTO ADJOINING MEMBERS. SPACE BARS EQUALLY BETWEEN DIMENSIONED LIMITS, UNLESS NOTED OTHERWISE.

   F. MECHANICAL SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE YIELD STRENGTH OF THE BAR IN TENSION.

   G. REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI "MANUAL OF STANDARD PRACTICE," (MSP). REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH "ACI DETAILING MANUAL," ACI SP-66.

   H. ALL HORIZONTAL REINFORCEMENT AT DISCONTINUITIES AND CORNERS SHALL END WITH STANDARD 90° HOOKS IN ACCORDANCE WITH ACI SP-66, UNLESS SHOWN OTHERWISE.

2. PRECAST CONCRETE — MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS

   A. PRECAST PRESTRESSED CONCRETE PILES — 8000 PSI
   B. PRECAST CONCRETE DECK PANELS — 6000 PSI
   C. PRECAST CONCRETE BATTER SUBCAPS — 8000 PSI

3. CAST-IN-PLACE CONCRETE — MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS

   A. CAST-IN-PLACE CONCRETE PILE CAPS — 5000 PSI
   B. BULLRAIL AND BOLLARD FILL — 5000 PSI
   C. DECK PANEL SHEAR KEY CONCRETE — 5000 PSI
   D. CAST-IN-PLACE CONCRETE IN PILE BUILDUP — 6000 PSI
   E. DRILLED SHAFTS — CLASS 4000P (PER WSDOT)

4. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 IN.

5. CONSTRUCTION JOINTS SHALL BE PROVIDED ONLY AS NOTED ON THE DRAWINGS AND AS SPECIFICALLY PERMITTED BY THE ENGINEER.

6. CONCRETE MIX SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.40 UNLESS NOTED OTHERWISE.

7. ALL CONCRETE SHALL BE AIR ENTRAINED WITH A TARGET OF 5% ± 1 1/2% UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.

8. REINFORCING BARS SHOWN AS EXISTING ARE PER PORT RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING REINFORCING BAR SIZES AND QUANTITIES PRIOR TO ORDERING REINFORCING STEEL OR MECHANICAL COUPLERS THAT WILL BE SPLICED TO EXISTING REINFORCING.

ANCHORS

1. USE OF DRILLED ADHESIVE CONCRETE ANCHORS, WHERE NOT SPECIFIED IN THE DOCUMENTS, SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

2. EPOXY OR ADHESIVE-TYPE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATION. SPECIAL INSPECTION IS REQUIRED FOR ALL ADHESIVE ANCHORS.

3. ACCEPTABLE ADHESIVES ARE HILTI HIT RE 500 OR RE 500 SD OR SIMPSON SET-XP SYSTEM. ICBO OR ICC REPORTS SHALL BE SUBMITTED FOR ALL ADHESIVE ANCHOR PRODUCTS.

MISCELLANEOUS STEEL

1. ALL MISCELLANEOUS STEEL SHAPES AND PLATES, EXCEPT AS NOTED BELOW, SHALL CONFORM TO ASTM A 36.

2. STEEL PLATE NOTED AS GRADE 50 SHALL CONFORM TO ASTM A572, GRADE 50.

3. ALL HSS SHAPES SHALL CONFORM TO ASTM A500, GRADE B.

4. ECONOMY BOLTS SHALL CONFORM TO ASTM A 307, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

5. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F 1554, GRADE 36 (TYPICAL), AND GRADE 105 (AT CRANE STOPS AND CAPSTANS).

6. HIGH STRENGTH THREADED BAR SHALL CONFORM TO ASTM A615, GRADE 75.

7. PROVIDE BLEED HOLES IN EMBEDDED PLATES AND SHAPES AT 24-IN. ON CENTER MAXIMUM.

8. ALL MISCELLANEOUS PIPES AND SLEEVES SHALL CONFORM TO ASTM A 53, GRADE B.

9. HIGH STRENGTH BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE ASTM A325X.

10. ALL NUTS SHALL BE ASTM A 563, UNLESS NOTED OTHERWISE.

11. ALL WASHERS SHALL BE ASTM F 436, UNLESS NOTED OTHERWISE.

12. ALL STEEL ITEMS SHALL BE HOT-DIP GALVANIZED AND/OR COATED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, UNLESS NOTED OTHERWISE.

13. SEE THE CONTRACT SPECIFICATIONS FOR ITEMS TO RECEIVE HIGH PERFORMANCE COATING IN ADDITION TO GALVANIZING.

WELDING

1. ALL WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED FOR THE WELD AND POSITION SHOWN IN ACCORDANCE WITH AWS AND HAVING CURRENT CERTIFICATION FROM WABO.

2. ALL WELDS SHALL BE PERFORMED WITH PROCEDURES PREQUALIFIED OR QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND D1.4.

3. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP- OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

4. WELDING ELECTRODES SHALL BE 70 KSI STRENGTH AND SHALL BE "LOW-HYDROGEN" ELECTRODES.

INSPECTION

1. THE CRITICAL ELEMENTS REQUIRING SPECIAL INSPECTION PER IBC 2012 CHAPTER 17 ARE INDICATED ON S1.3.

2. SPECIAL INSPECTION WILL BE PERFORMED BY THE PORT.

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S1.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	5/23/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR_ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PIER STRUCTURAL NOTES - SHEET 1

6552
S1.1
SH 173 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PROJ. ENGR DATE
tlemons Jul 20, 2018
PRINTED BY:
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

DESIGN CRITERIA

DESIGN LOADS

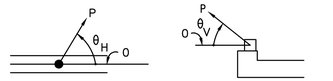
1. UNIFORM LIVE LOADS:
   1000 PSF TYPICAL
   2000 PSF ON HEAVY LOAD ZONE
   250 PSF WITHIN 10 FT OF BOTH SIDES OF CRANE RAIL APPLIED SIMULTANEOUSLY WITH CRANE WHEEL LOAD.
2. CONCENTRATED LIVE LOADS:
   HS25 TRUCK
   CRANE OUTRIGGERS
   STRADDLE CARRIER
   CONTAINER HANDLER
   } SEE DIAGRAMS ON THIS SHEET
3. DEAD LOADS:

CONCRETE	160 PCF
BALLAST	150 PCF
ACP	150 PCF
STEEL	490 PCF

4. CONTAINER CRANE LOADS
   A. VERTICAL LOADS:
   100' GAUGE CRANE:
   EQUIVALENT SERVICE LEVEL UNIFORM LOAD

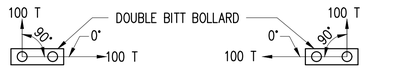
OPERATING CONDITION	WATERSIDE	65 KIPS/FT
	LANDSIDE	65 KIPS/FT
STOWED CONDITION	WATERSIDE	54 KIPS/FT
	LANDSIDE	63 KIPS/FT

   B. LONGITUDINAL LOADS AT PIN SOCKETS: Pu = 515 KIPS ULTIMATE PER SOCKET. Ps = 320 KIPS SERVICE PER SOCKET.
   C. CRANE STOPS: Pu = 1,120 KIPS (L.F.=1.0), ACTING HORIZONTALLY 3'-6" ABOVE TOP OF RAIL, PER STOP.
   D. CRANE TIE DOWN UPLIFT LOAD:
   WATERSIDE TIE-DOWNS Pu = 1,184 KIPS/CORNER Ps = 667 KIPS/CORNER
   LANDSIDE TIE-DOWNS Pu = 495 KIPS/CORNER Ps = 242 KIPS/CORNER
   E. WIND SPEEDS (ASCE 7-10)
   OPERATING 55 MPH
   STOWED 110 MPH
5. FENDER SYSTEM DESIGN CRITERIA
   A. ULTRA LARGE CONTAINER SHIP (ULCS)
   LENGTH OVERALL (LOA): 1380 FEET
   BEAM: 195 FEET (24 CONTAINERS ACROSS ON DECK)
   CARGO HEIGHT @ MHHW : 148 FEET
   DRAFT: 50 FEET
   CAPACITY: 18,000 TEU (176,000 DEADWEIGHT TONS (DWT))
   TOTAL DISPLACEMENT: 230,000 LONG TONS
   B. BERTHING LOADS:
   1. ULCS
   APPROACH VELOCITY: 1 KNOT
   APPROACH ANGLE: 6 DEGREES
   2. MAX. ALLOWABLE HULL PRESSURE = 5.0 KIPS/SQ FT
6. LINE PULL ON BOLLARDS



PLAN ELEVATION

LOCATION	RATED CAPACITY P	RANGE OF HORIZONTAL ANGLE θ H	RANGE OF VERTICAL ANGLE θ V
PIER BOLLARD-TYPE 1	100 TONS	0° TO 180°	0° TO +60°
PIER BOLLARD-TYPE 2	200 TONS	0° TO 180°	0° TO +60°
PIER DOUBLE BITT BOLLARD	200 TONS	SEE BELOW	0° TO +60°
MOORING DOLPHIN BOLLARD	200 TONS	SEE SHEET S5.5	0° TO +60°

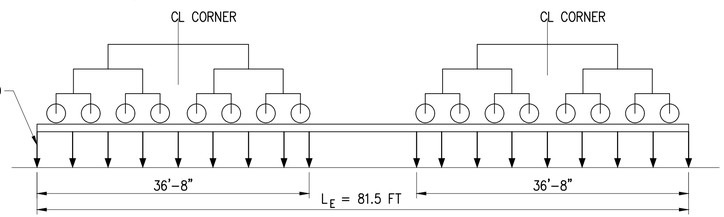


PLAN - LCASE 1* PLAN - LCASE 2*

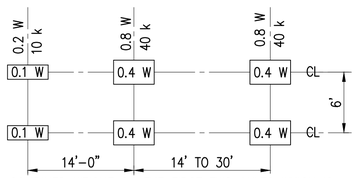
* LCASE 1 AND LCASE 2 CAN OCCUR SIMULTANEOUSLY

7. LOAD COMBINATIONS
   SERVICE LOAD COMBINATIONS
   S1 = 1.0D + 1.0L + 1.0CO + 1.0E + 0.6W0+ 1.0T
   S2 = 0.9D + 1.0E + 0.75(0.5W_S)
   S3 = 1.0D + 1.0CD + 0.79L + 0.75BE + 1.0E + 0.75(0.6W0)
   S4 = 1.0D + 0.75L + 0.75CO + 0.75BE +1.0E + 0.75(0.6W0)
   S5 = 1.0D + 1.0L + 1.0CO + 1.0M + 1.0E + 0.6W0
   S6 = 1.0D + 1.0L + 1.0CS + 1.0M + 1.0E + 0.6W_S
   ULTIMATE STRENGTH LOAD COMBINATIONS
   U1 = 1.2D + 1.6L + 1.3CO + 1.6E + 1.0W_O + 1.2T
   U2 = 0.9D + 1.6E + 1.0W_S + 1.2T
   U3 = 1.2D + 1.2CD + 1.0L + 1.0BE + 1.0E + 1.0W_O
   U4 = 1.2D + 1.0L + 1.3CO + 1.6M + 1.6E + 1.0W_O
   U5 = 1.2D + 1.6L + 1.5CS + 1.6M + 1.6E + 1.0W_S

   BE - BERTHING LOAD (PER UFC 4-152-01)
   CD - DEAD LOAD OF CONTAINER CRANE
   CO - CRANE LOAD UNDER OPERATING CONDITION
   CS - CRANE LOAD UNDER STOWED CONDITION
   D - DEAD LOAD
   H - HORIZONTAL EARTH PRESSURE LOAD
   L - LIVE LOAD + IMPACT
   M - MOORING LOAD
   T - TEMPERATURE LOAD (Δ T = ± 30°)
   W_O - WIND LOAD OPERATING
   W_S - WIND LOAD STOWED



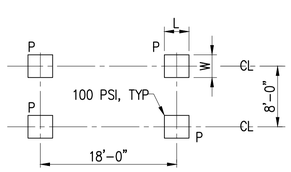
CONTAINER CRANE LOADS



W =COMBINED WEIGHT ON THE FIRST TWO AXLES WHICH IS THE SAME AS FOR THE CORRESPONDING H TRUCK.

HS25 TRUCK = (1.25 x HS20)

NOTE: ADD 10% IMPACT TO ABOVE LOADS



P = 125 k (INCLUDES IMPACT)

$L = W = \sqrt{\frac{P}{100}}$ (P IN LBS, L OR W IN INCHES)

CRANE OUTRIGGERS

DESIGN CONCEPT

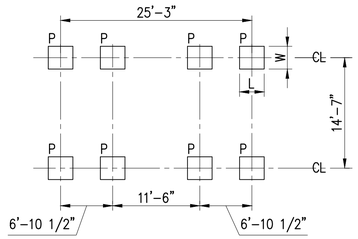
1. VERTICAL LOADS:
   LOADS ARE DISTRIBUTED THROUGH ASPHALT PAVING TO DECK PANELS, DECK PANELS TO PILE CAPS, PILE CAPS TO PILES, PILES TO SOIL IN FRICTION.
2. HORIZONTAL LOADS:
   HORIZONTAL LOADS INCLUDING SEISMIC FORCES, SOIL PRESSURE, SHIP IMPACT, AND MOORING FORCES ARE TRANSMITTED THROUGH THE DECK ACTING AS A DIAPHRAGM TO THE PLUMB PILES AND BATTER PILES. HORIZONTAL LOADS PARALLEL TO THE WHARF ARE RESISTED BY PLUMB PILES.

SEISMIC DESIGN

1. THE SEISMIC DESIGN CONFORMS WITH ASCE 61-14," SEISMIC DESIGN OF PIERS AND WHARVES," DESIGN CLASSIFICATION "HIGH".
2. SEISMIC DESIGN INCLUDES DISPLACEMENT BASED DESIGN FOR SEISMIC STRUCTURAL PERFORMANCE LEVELS FOR THE THREE FOLLOWING SEISMIC EVENTS.

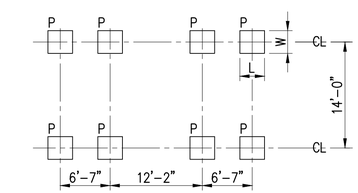
EVENT	HAZARD LEVEL	TARGET PERFORMANCE LEVEL
OPERATING LEVEL EARTHQUAKE (OLE)	GROUND MOTION PROBABILITY OF EXCEEDANCE: 50% IN 50 YEARS (72-YEAR RETURN PERIOD)	MINIMAL DAMAGE
CONTINGENCY LEVEL EARTHQUAKE (CLE)	GROUND MOTION PROBABILITY OF EXCEEDANCE: 10% IN 50 YEARS (475-YEAR RETURN PERIOD)	CONTROLLED AND REPAIRABLE DAMAGE
DESIGN EARTHQUAKE (DE)	SEISMIC HAZARD LEVEL: DESIGN EARTHQUAKE PER ASCE 7 (2005)	LIFE SAFETY PROTECTION

3. SEISMIC MASS INCLUDES 10% OF THE TYPICAL UNIFORM LIVE LOAD MASS OVER THE ENTIRE SURFACE OF THE WHARF, AND ACCOUNTS FOR MASS CONTRIBUTION OF CONTAINER CRANES.



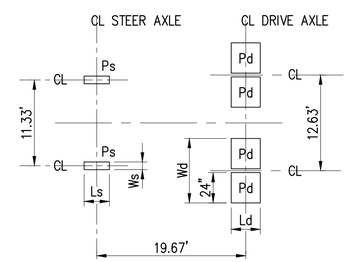
P = 30.4 k (INCLUDES 10% IMPACT)
W = 10.24"
L = 20.24"
q = 145 psi

KALMAR CSC 340 STRADDLE CARRIER



P = 35 k (INCLUDES 10% IMPACT)
W = 18"
L = 19.5"
q = 100 psi

NOELL SC544 STRADDLE CARRIER



Ps = 16 k (INCLUDES 10% IMPACT)
Ws = 20"
Ls = 6.1"
qs = 131 psi

Pd = 62 k (INCLUDES 10% IMPACT)
Wd = 51"
Ld = 23"
qd = 112 psi

TAYLOR "BIG RED" THDC-976 CONTAINER HANDLER

IBC 2012 - WIND DESIGN DATA

1. BASIC WIND SPEED (3-SECOND GUST) - 110 MPH
2. CATEGORY - II
3. WIND EXPOSURE - EXPOSURE D

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2 RECONFIGURATION
PIER STRUCTURAL NOTES - SHEET 2

6552
S1.2
SH 174 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

CHECKED BY SEK DATE
PROJ. ENGR TAH DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S1.2

BINDING EDGE

RECORD DRAWINGS

BINDING EDGE

SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2012 IBC SECTION 110 & CHAPTER 17

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
SOILS			
GRADING, EXCAVATION & FILL		X	
FINAL FOUNDATION PREPARATION		X	
PILE DRIVING MONITORING	X		BY GEOTECHNICAL ENGINEER OF RECORD
DRILLED SHAFT INSTALLATION	X		BY GEOTECHNICAL ENGINEER OF RECORD
PREFAB CONSTRUCTION			REF. NOTE 5
CONCRETE			
REINFORCING PLACEMENT		X	
REINFORCING WELDING		X	
REINFORCING COUPLING		X	
ANCHOR BOLTS & INSERTS		X	
PREPARATION OF TEST SPECIMENS	X		
CONCRETE PLACEMENT	X		
ADHESIVE ANCHOR PLACEMENT		X	REF. NOTE 6
EXPANSION ANCHOR PLACEMENT		X	REF. NOTE 6
EMBEDDED PLATES		X	
CURING		X	
PRECAST CONCRETE ERECTION		X	
STRUCTURAL STEEL			
FABRICATION & ERECTION		X	
SINGLE PASS FILLET WELDS ≤ 5/16"		X	REF. NOTE 8
FILLET WELDS > 5/16"	X		REF. NOTE 8
PARTIAL/COMPLETE PENETRATION WELD	X		REF. NOTE 9
OTHER WELDING			
WELDING OF ANCHORS AND STUDS		X	

SPECIAL INSPECTION SCHEDULE NOTES

1. THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO PROJECT SPECIFICATIONS, THE STRUCTURAL NOTES AND THE THE NOTES BELOW. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ENGINEER. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
2. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.2.
3. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (IBC 1702). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
4. INSPECTION REQUIREMENTS FOR SYSTEMS DESIGNED BY OTHERS SHALL BE DEFINED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.
5. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIALS USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
6. INSPECTION OF DRILLED CONCRETE ANCHORS, INCLUDING EXPANSION AND ADHESIVE ANCHORS, SHALL INCLUDE VISUAL VERIFICATION OF DRILLED HOLE DEPTH, SPACING, EDGE DISTANCES AND HOLE CLEANING. FOR ADHESIVE ANCHORS, ADHESIVE INSTALLATION SHALL BE OBSERVED AND PRODUCT SPECIFICATION AND PREPARATION SHALL BE VERIFIED.
7. ALL WELDS SHALL BE VISUALLY INSPECTED.
8. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED METHOD.
9. THE PORT WILL EMPLOY AND PAY FOR SPECIAL INSPECTION & TESTING SERVICES TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

PERMANENT FLOATING CONTAINMENT BOOM SYSTEM

1. SYSTEM REQUIREMENTS
   - A. CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE PERMANENT FLOATING CONTAINMENT BOOM SYSTEM UNDER THE FINISHED PIER IN THE LOCATION INDICATED IN THE DRAWINGS (SEE S3.1 THRU S3.2 AND S6.2 THRU S6.6). PERMANENT CONTAINMENT BOOM SYSTEM SHALL CONSIST OF APPROXIMATELY 1800 LINEAR FEET OF OIL TIGHT FLOATING BARRIER AND (74) HEAVY DUTY PILE TETHERS.
   - B. BOOM SYSTEM MANUFACTURER AND INSTALLER SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE MANUFACTURING AND INSTALLING CONTAINMENT BOOM SYSTEMS FOR LONG-TERM USE IN SIMILAR CONDITIONS.
   - C. CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW PRIOR TO CONSTRUCTION:
     - QUALIFICATIONS OF MANUFACTURER AND INSTALLER
     - DETAILED INSTALLATION DRAWINGS
     - PRODUCT DATA SHEETS FOR ALL BOOM SYSTEM COMPONENTS
2. BARRIER
   - A. BARRIER SHALL BE CONSTRUCTED OF PVC IMPREGNATED POLYESTER WITH A MINIMUM HEIGHT OF 24", A MINIMUM THICKNESS OF 3/16", AND A MINIMUM FREEBOARD OF 11". FLOATATION SHALL BE PROVIDED BY REPLACEABLE FOAM-FILLED, HARD-SHELL POLYETHYLENE FLOATS BOLTED TO THE BARRIER WITH NYLON BOLTS AND NUTS. THE BARRIER SHALL BE SELF-RIGHTING AND BALLASTED USING LEAD WEIGHTS BOLTED TO THE BOTTOM OF THE BARRIER.
   - B. BARRIER SHALL INCLUDE STAINLESS STEEL EYEBOLT ANCHOR POINTS FOR ATTACHMENT OF BOOM TO PILE TETHERS. BARRIER END CONNECTORS SHALL ALLOW FOR AN OIL TIGHT CONNECTION BETWEEN SECTIONS OF PERMANENT BOOM, AS WELL AS TO ENDS OF TEMPORARY FLEXIBLE BOOM (BY OTHERS) AT NORTH AND SOUTH END OF PIER.
   - C. BARRIER SHALL BE 24" PETRO BARRIER (NRC PB24-100) MANUFACTURED BY NRC ENVIRONMENTAL SERVICES INC. OF SEATTLE WA, OR APPROVED EQUAL.
3. PILE TETHERS
   - A. PILE TETHERS SHALL BE PROVIDED IN OPPOSING PAIRS AT A SPACING NOT TO EXCEED 50 FEET. PILE TETHERS SHALL BE ADEQUATE TO HOLD BARRIER SECURELY IN PLACE AGAINST WIND, WAVES, AND PROP WASH WHILE ALLOWING THE BOOM TO TRAVEL VERTICAL FREELY WITH THE TIDE.
   - B. EACH PILE TETHER SHALL FULLY ENCIRCLE A PILE WITH A LOOP OF STAINLESS STEEL CHAIN HAVING A MINIMUM THICKNESS OF 5/16". RUBBER DISKS SHALL BE PROVIDED BETWEEN ADJACENT TETHER FLOATS TO PREVENT FLOATS AND CHAIR FROM WEARING AGAINST PILING.
   - C. PILE TETHERS SHALL BE "HEAVY DUTY PILE TETHER" AS MANUFACTURED BY NRC ENVIRONMENTAL SERVICES INC. OF SEATTLE WA, OR APPROVED EQUAL.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PIER STRUCTURAL NOTES - SHEET 3

6552
S1.3
SH 175 OF 499

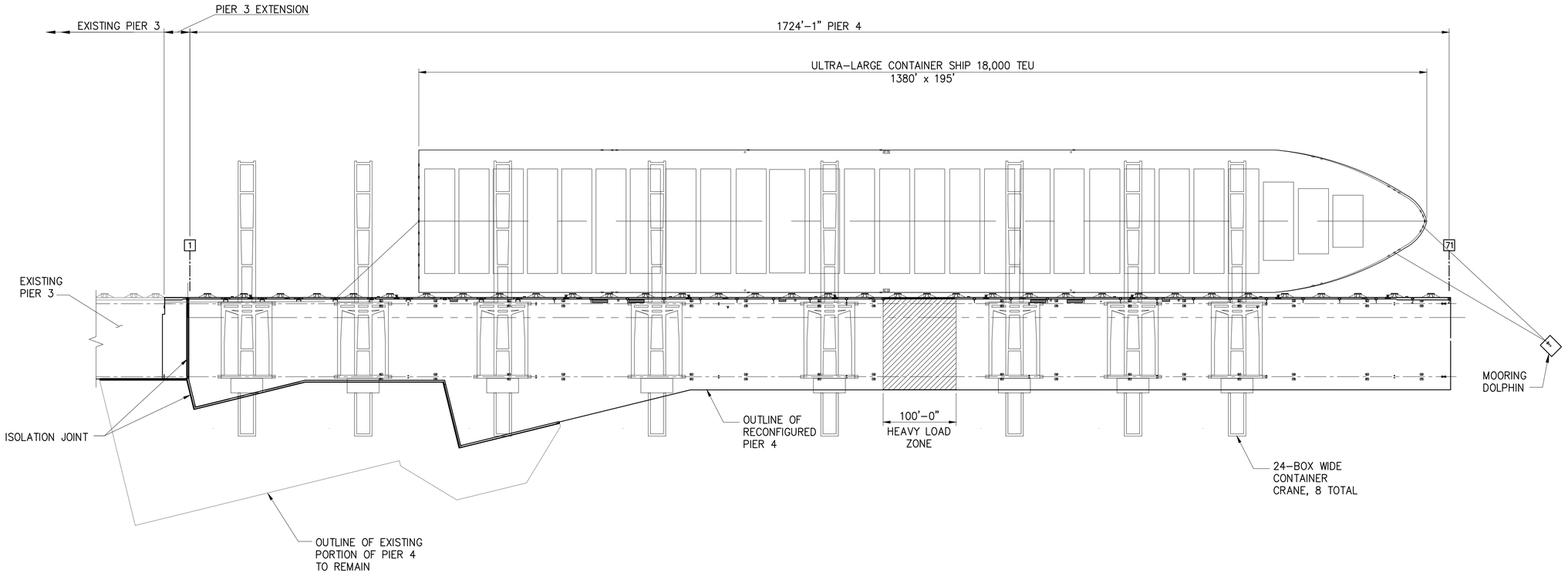
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018 2:39 PM
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S1.3

BINDING EDGE



1 PIER PLAN
1"=80'

0 80 160 240
SCALE IN FEET

PROJECT NORTH

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR, ENG. DATE

PIER 4 PHASE 2 RECONFIGURATION
PIER PLAN

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	Jul 20, 2018
PRINTED BY: tlemons			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401–1837			

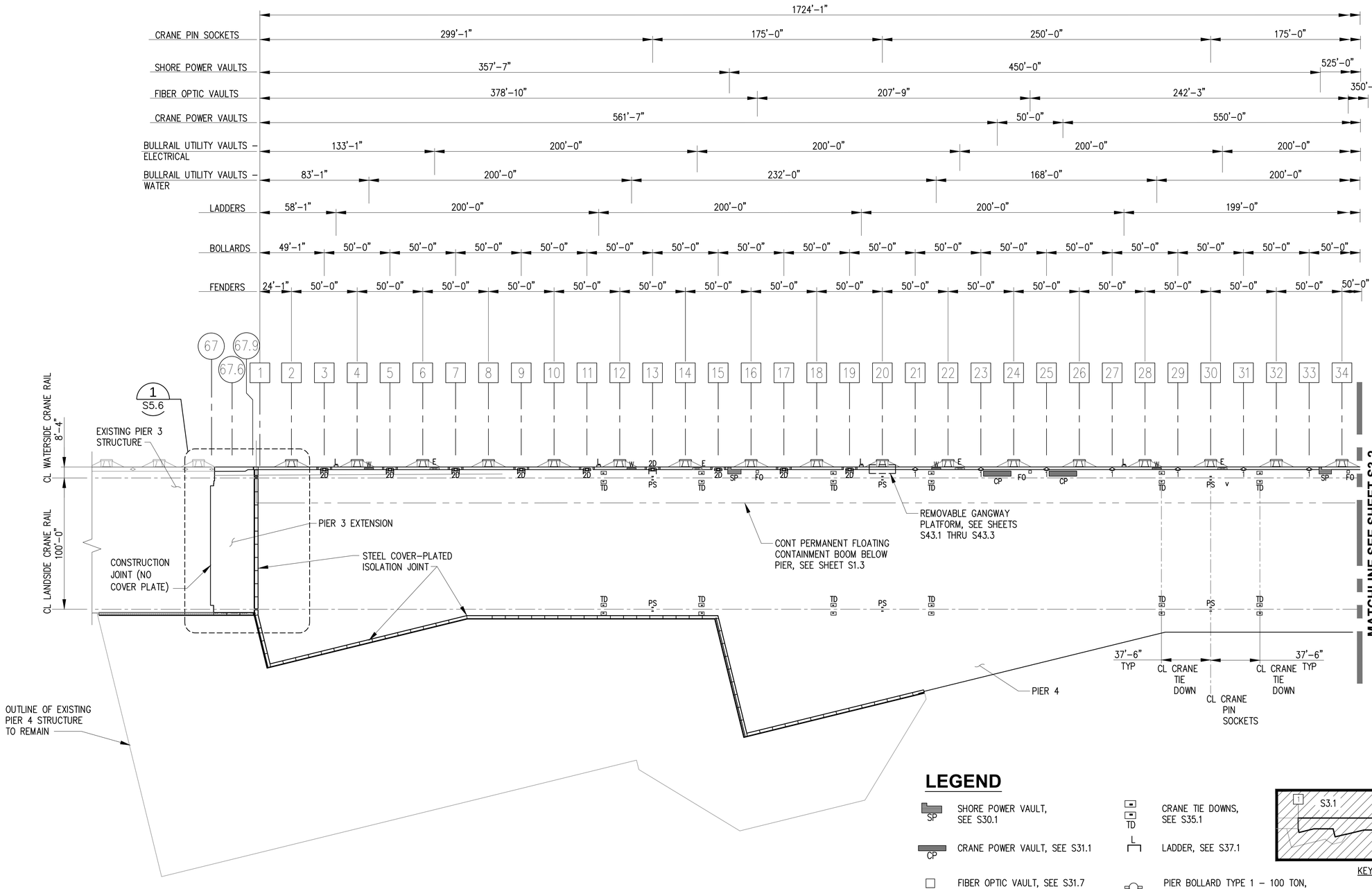
6552
S2.1
SH 176 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S2.1

BINDING EDGE

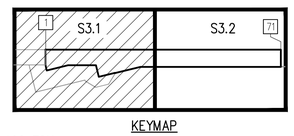


PIER SURFACE FEATURES PLAN

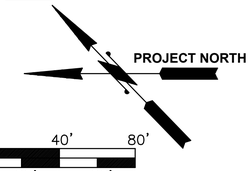
1" = 40'-0"

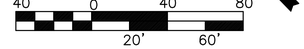
LEGEND

- SP — SHORE POWER VAULT, SEE S30.1
- CP — CRANE POWER VAULT, SEE S31.1
- FO — FIBER OPTIC VAULT, SEE S31.7
- W — BULLRAIL UTILITY VAULT - WATER, SEE S33.1
- E — BULLRAIL UTILITY VAULT - ELECTRICAL, SEE S33.1
- PS — CRANE PIN SOCKET, SEE S34.1
- TD — CRANE TIE DOWNS, SEE S35.1
- L — LADDER, SEE S37.1
- 1 — PIER BOLLARD TYPE 1 - 100 TON, SEE S38.1
- 2D — PIER DOUBLE BITT BOLLARD - 200 TON, SEE S38.3
- FENDER, SEE S39.1



KEYMAP





SCALE: 1"=40'

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK	CHECKED BY	DATE	
TAH	DIRECTOR ENG.	DATE	
PROJ. ENGR			
tlemons Jul 20, 2018	PRINTED BY:		
PORT ADDRESS:ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

PIER 4 PHASE 2 RECONFIGURATION

PIER SURFACE FEATURES PLAN - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552

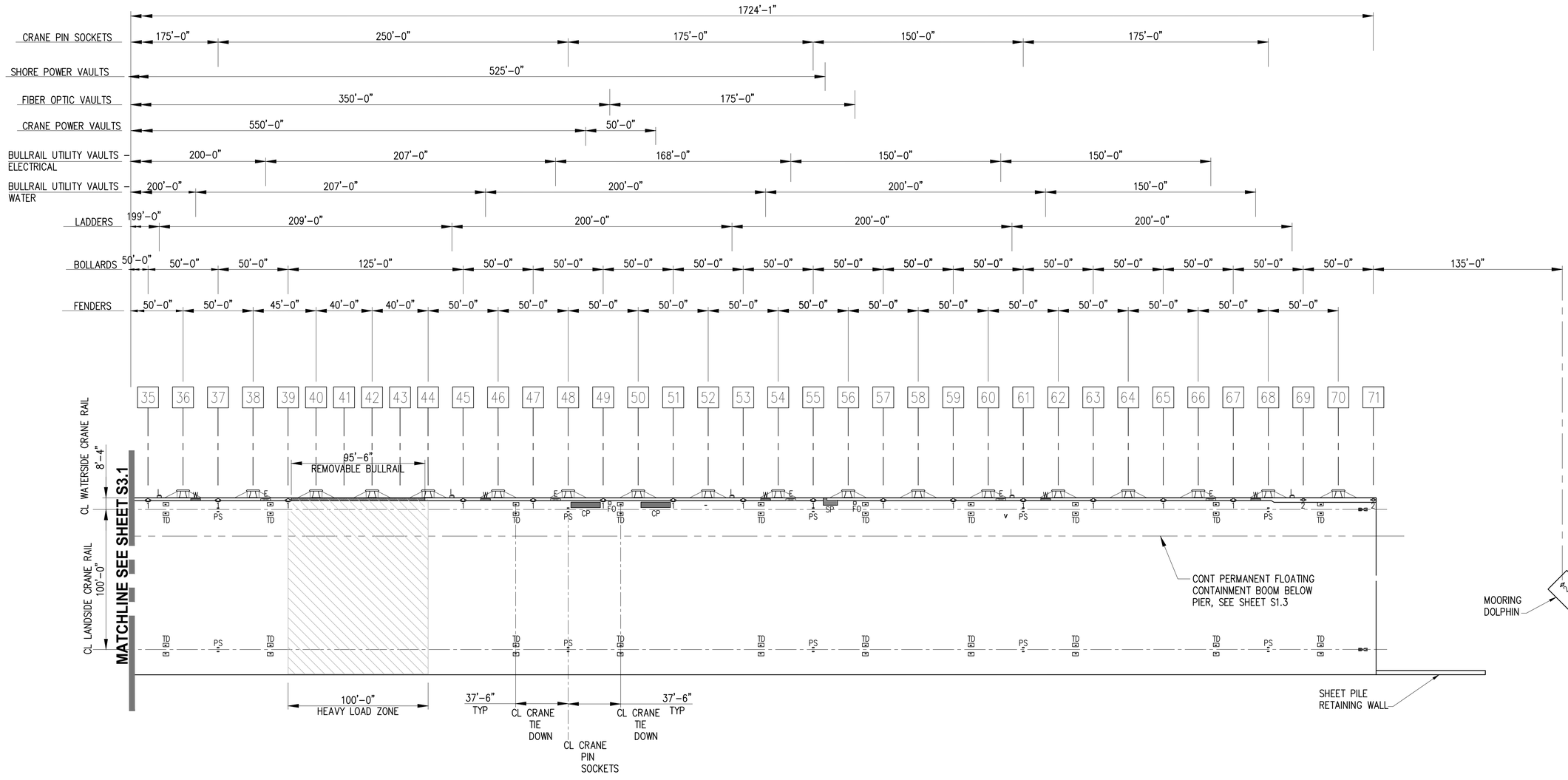
S3.1

SH 177 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S3.1

BINDING EDGE

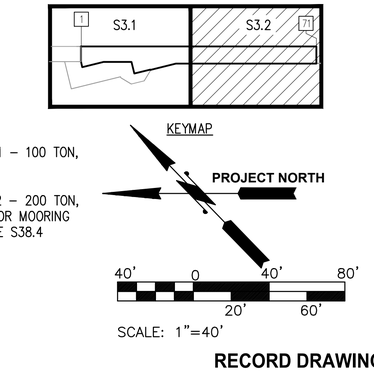


PIER SURFACE FEATURES PLAN

1" = 40'–0"

LEGEND

- SP — SHORE POWER VAULT, SEE S30.1
- CP — CRANE POWER VAULT, SEE S31.1
- FO — FIBER OPTIC VAULT, SEE S31.7
- W — BULLRAIL UTILITY VAULT – WATER, SEE S33.1
- E — BULLRAIL UTILITY VAULT – ELECTRICAL, SEE S33.1
- PS — CRANE PIN SOCKET, SEE S34.1
- REMOVABLE TIMBER BULLRAIL
- HEAVY LOAD ZONE
- TD — CRANE TIE DOWNS, SEE S35.1
- L — LADDER, SEE S37.1
- 1 — PIER BOLLARD TYPE 1 – 100 TON, SEE S38.1
- 2 — PIER BOLLARD TYPE 2 – 200 TON, SEE S38.2, EXCEPT FOR MOORING DOLPHIN BOLLARD SEE S38.4
- FENDER, SEE S39.1



RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S3.2

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK CHECKED BY DATE

TAH DIRECTOR ENG. DATE

PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401–1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

PIER SURFACE FEATURES PLAN - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:		

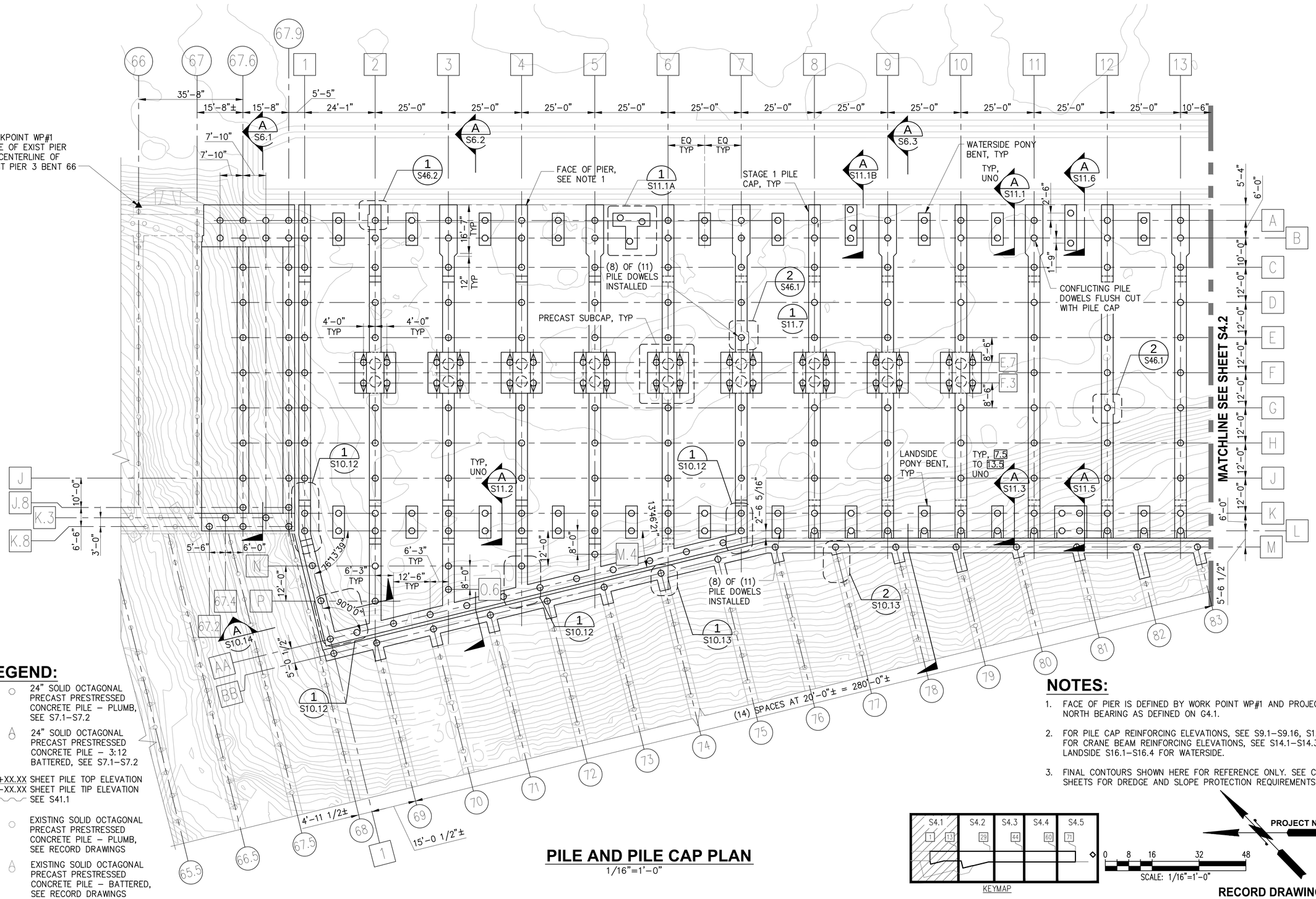
6552

S3.2

SH 178 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



LEGEND:

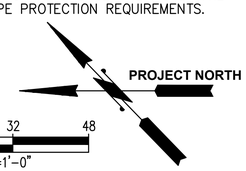
- ○ 24" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE – PLUMB, SEE S7.1–S7.2
- ⌀ 24" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE – 3:12 BATTERED, SEE S7.1–S7.2
- +XX.XX SHEET PILE TOP ELEVATION
  −XX.XX SHEET PILE TIP ELEVATION
  SEE S41.1
- ○ EXISTING SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE – PLUMB, SEE RECORD DRAWINGS
- ⌀ EXISTING SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE – BATTERED, SEE RECORD DRAWINGS

NOTES:

1. FACE OF PIER IS DEFINED BY WORK POINT WP#1 AND PROJECT NORTH BEARING AS DEFINED ON G4.1.
2. FOR PILE CAP REINFORCING ELEVATIONS, SEE S9.1–S9.16, S12.1. FOR CRANE BEAM REINFORCING ELEVATIONS, SEE S14.1–S14.3 FOR LANDSIDE S16.1–S16.4 FOR WATERSIDE.
3. FINAL CONTOURS SHOWN HERE FOR REFERENCE ONLY. SEE CIVIL SHEETS FOR DREDGE AND SLOPE PROTECTION REQUIREMENTS.

PILE AND PILE CAP PLAN

1/16"=1'-0"



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	1/30/17
			SEK	2/15/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
DRAWN BY DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018 8:47:21 AM
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
PILE AND PILE CAP PLAN - SHEET 1

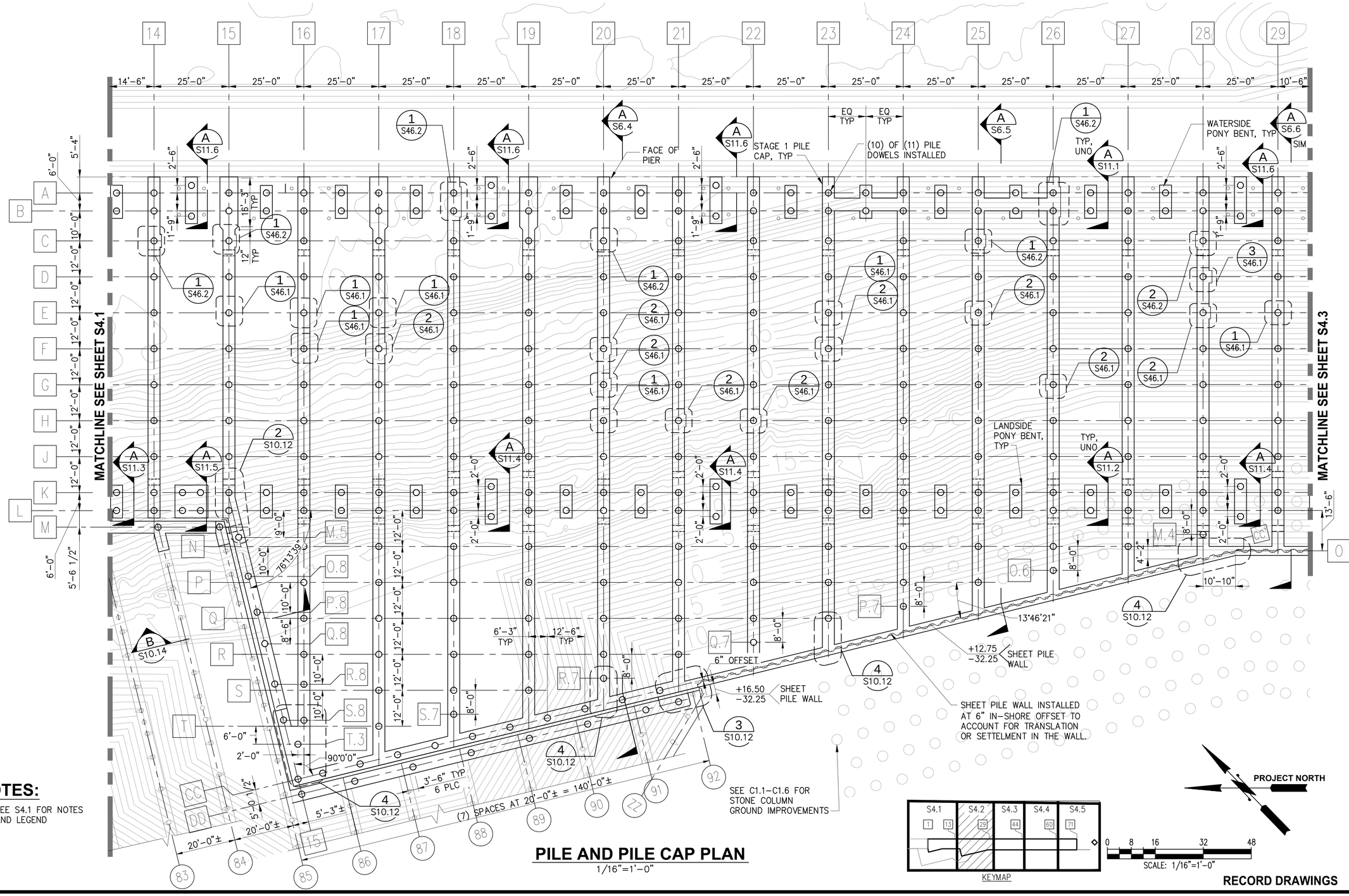
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION: 27

6552
S4.1
SH 179 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S4.1

BINDING EDGE



NOTES:

1. SEE S4.1 FOR NOTES AND LEGEND

PILE AND PILE CAP PLAN

1/16"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	4/28/2016
			SEK	10/11/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	
CHECKED BY	DATE
TAH	
DIRECTOR ENG.	DATE
PROJ. ENGR	DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE AND PILE CAP PLAN - SHEET 2

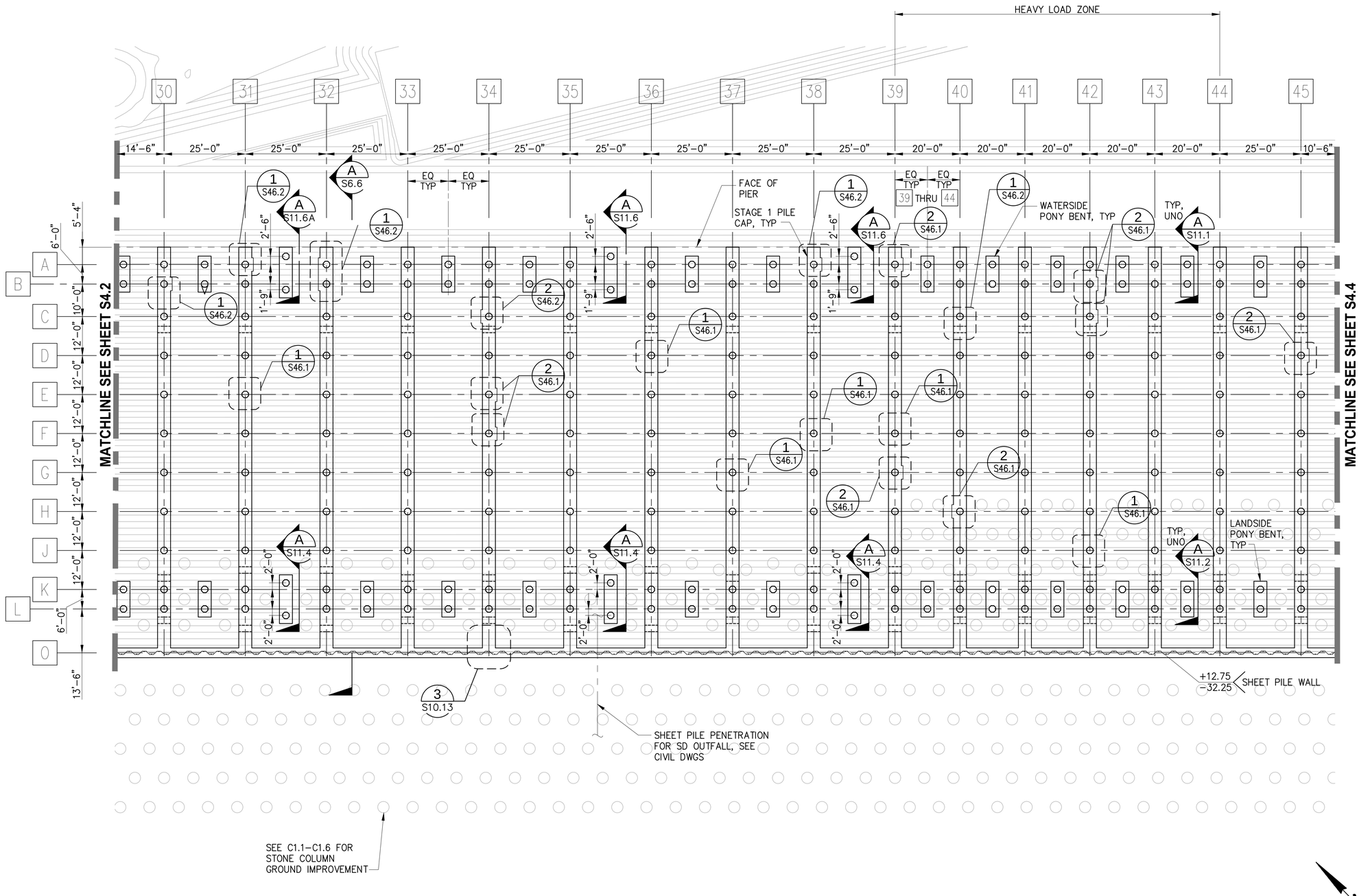
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: tlemons Jul 20, 2018 13:
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S4.2
SH 180 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S4.2

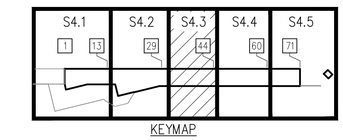


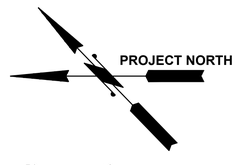
NOTES:

1. SEE S4.1 FOR NOTES AND LEGEND

PILE AND PILE CAP PLAN

1/16"=1'-0"





0 8 16 32 48

SCALE: 1/16"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK CHECKED BY DATE

TAH PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
PILE AND PILE CAP PLAN - SHEET 3

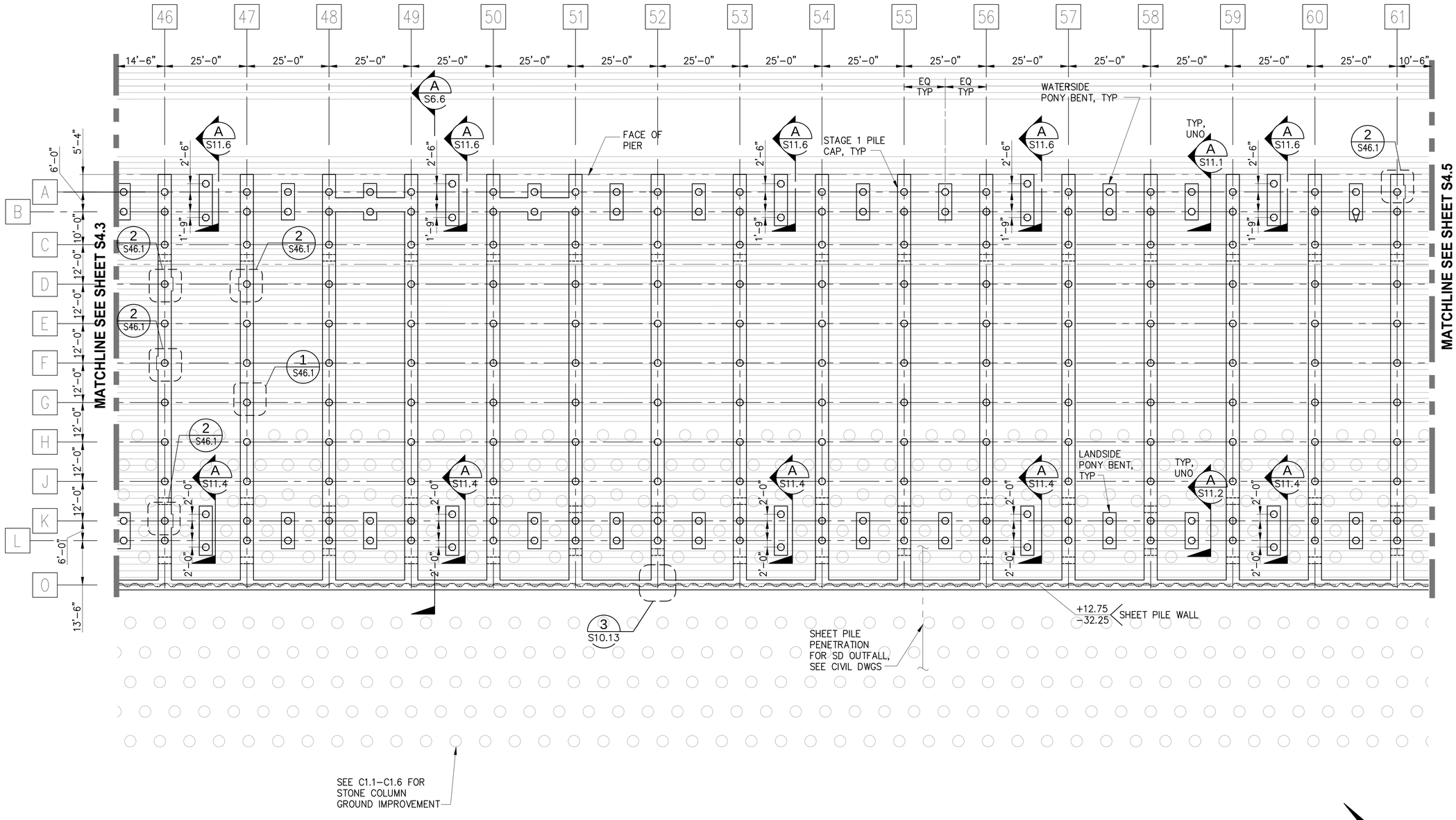
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S4.3
SH 181 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S4.3

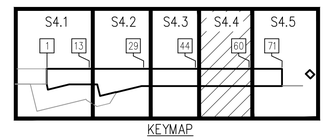


NOTES:

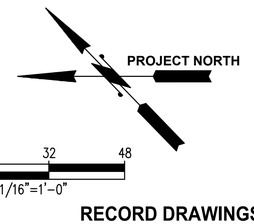
1. SEE S4.1 FOR NOTES AND LEGEND

PILE AND PILE CAP PLAN

1/16"=1'-0"



KEYMAP





SCALE: 1/16"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S4.4

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE

TAH DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE AND PILE CAP PLAN - SHEET 4

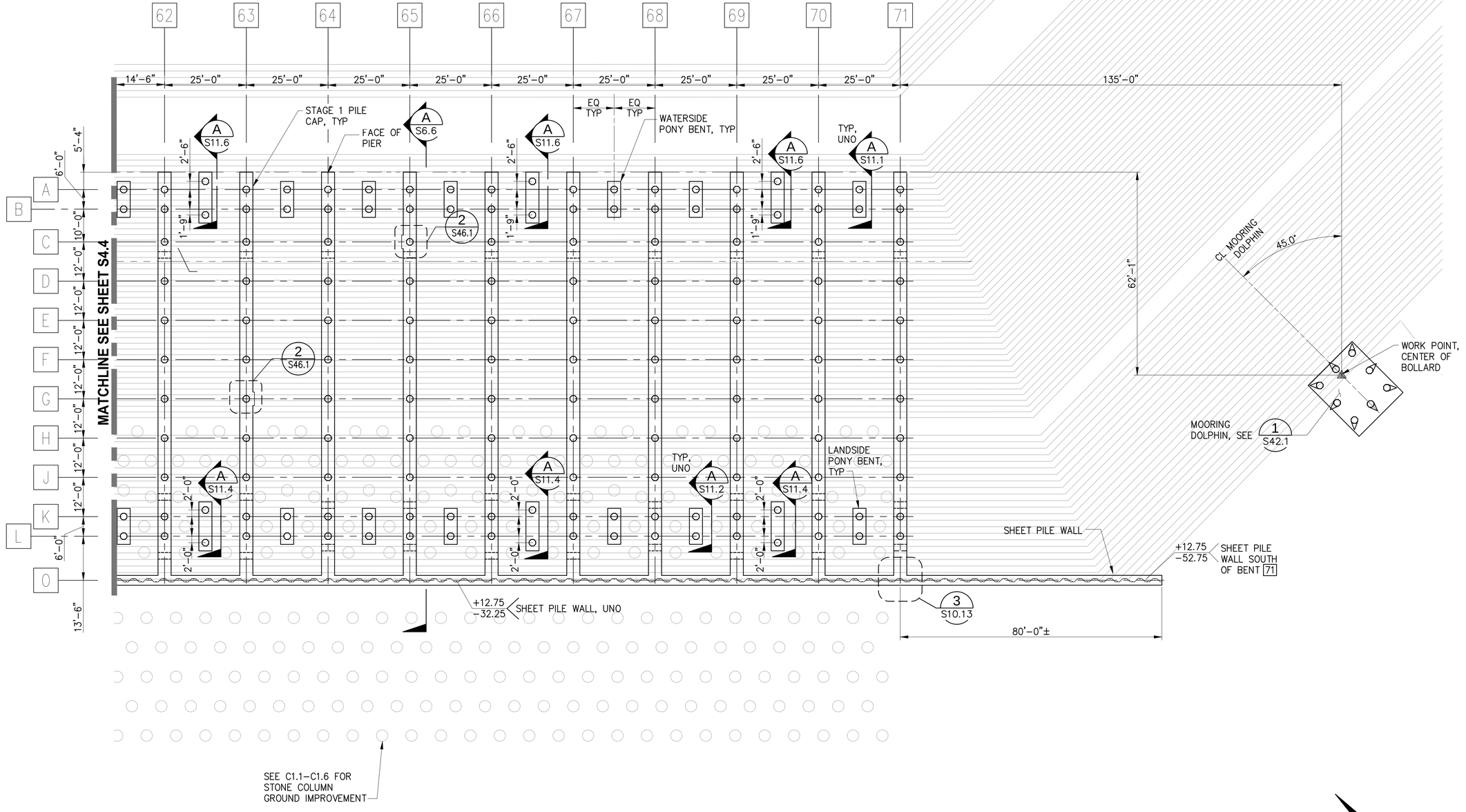
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons Jul
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS:ONE SITCUM

PROJ. ENGR DATE
tlemons Jul 20, 2018
ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S4.4
SH 182 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

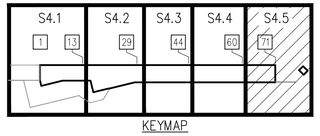


NOTES:

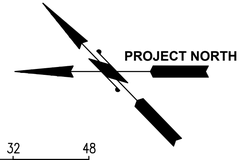
1. SEE S4.1 FOR NOTES AND LEGEND

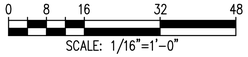
PILE AND PILE CAP PLAN

1/16"=1'-0"



KEYMAP





SCALE: 1/16"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	SEK
PRINTED BY:	tlemons	CHECKED BY
PROJ. ENGR	Jul 20, 2018	TAH

PORT ADDRESSSONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
PILE AND PILE CAP PLAN - SHEET 5

CONT/CONS:	0701.36	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

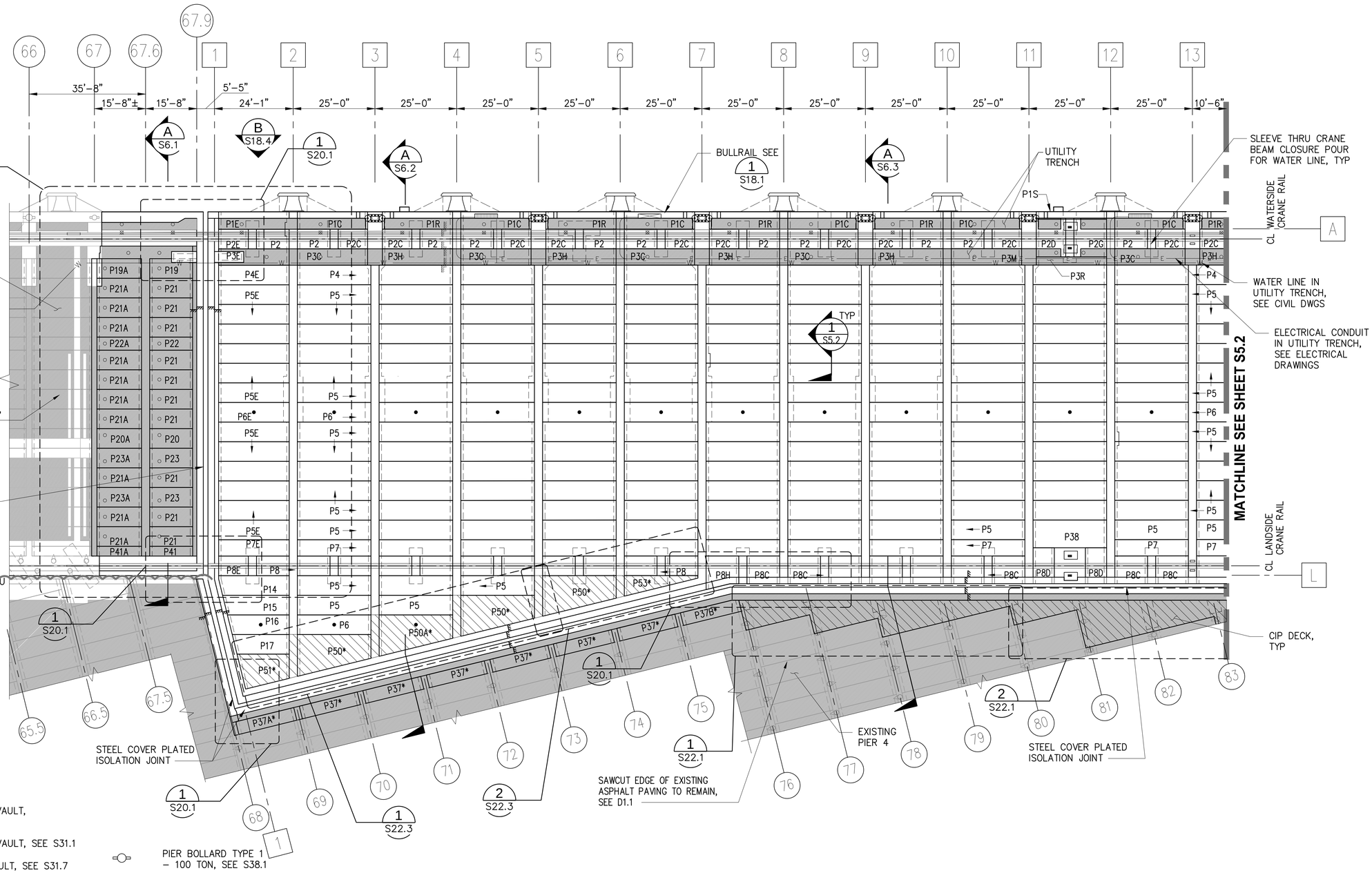
SECTION: 27

6552
S4.5
SH 183 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-I114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S4.5

BINDING EDGE



NOTES

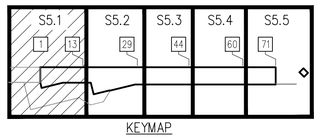
1. FOR DECK PANEL SCHEDULE, SEE S26.1 THRU S26.5
2. FOR BULLRAIL, SEE S18.1 THRU S18.4
3. ACP NOT SHOWN, SEE CIVIL DRAWINGS
4. FOR PIER SECTIONS, SEE S6.7 TO S6.18
5. * INDICATES DECK PANELS WHICH SHALL NOT BE FABRICATED UNTIL POST DEMOLITION SURVEY IS COMPLETE AND CONFIRMED.

LEGEND:

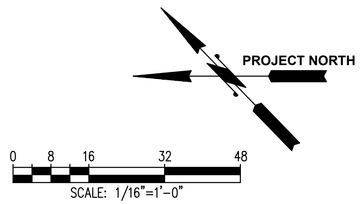
- SHORE POWER VAULT, SEE S30.1
- CRANE POWER VAULT, SEE S31.1
- FIBER OPTIC VAULT, SEE S31.7
- BULLRAIL UTILITY VAULT – WATER, SEE S33.1
- BULLRAIL UTILITY VAULT – ELECTRICAL, SEE S33.1
- CRANE PIN SOCKET, SEE S34.1
- CRANE TIE DOWNS, SEE S35.1
- CRANE STOP, SEE S36.1
- LADDER, SEE S37.1
- PIER BOLLARD TYPE 1 – 100 TON, SEE S38.1
- PIER BOLLARD TYPE 2 – 200 TON, SEE S38.2
- PIER DOUBLE BITT BOLLARD – 200 TON, SEE S38.3
- FENDER, SEE S39.1
- DECK DRAIN, SEE 2/C5.10
- SUBSURFACE DRAIN, SEE 3/C5.10
- CABLE SLOT DRAIN
- W — WATER LINE, SEE CIVIL DRAWINGS
- REMOVABLE TIMBER BULLRAIL
- PX → PRECAST DECK PANEL TYPE
- BALLAST OVER DECK PANEL
- CIP CONCRETE DECK, OR TOPPING SLAB
- E — ELECTRICAL CONDUIT, SEE ELECTRICAL DRAWINGS

PIER DECK PLAN

1/16"=1'-0"



KEYMAP



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	10/11/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	DRAWN BY	DATE	
tiemons Jul 20, 2018	PROJ. ENGR	DATE	
DIRECTOR ENG.	DATE		

APPROVED:

PRINTED BY: tiemons Jul 20, 2018 | SECTION: 27 | TOWNSHIP: 21N | RANGE: 3E
PORT ADDRESS: ONE SITCUM PLAZA | VERT: MLLW 19.39' @ Tide 22 1933 | DAT-HRZ: WA83-SF
TACOMA, WA 98401-1837 | DRAWING SCALE: AS NOTED | PARCEL:

PIER 4 PHASE 2 RECONFIGURATION

PIER DECK PLAN - SHEET 1

6552

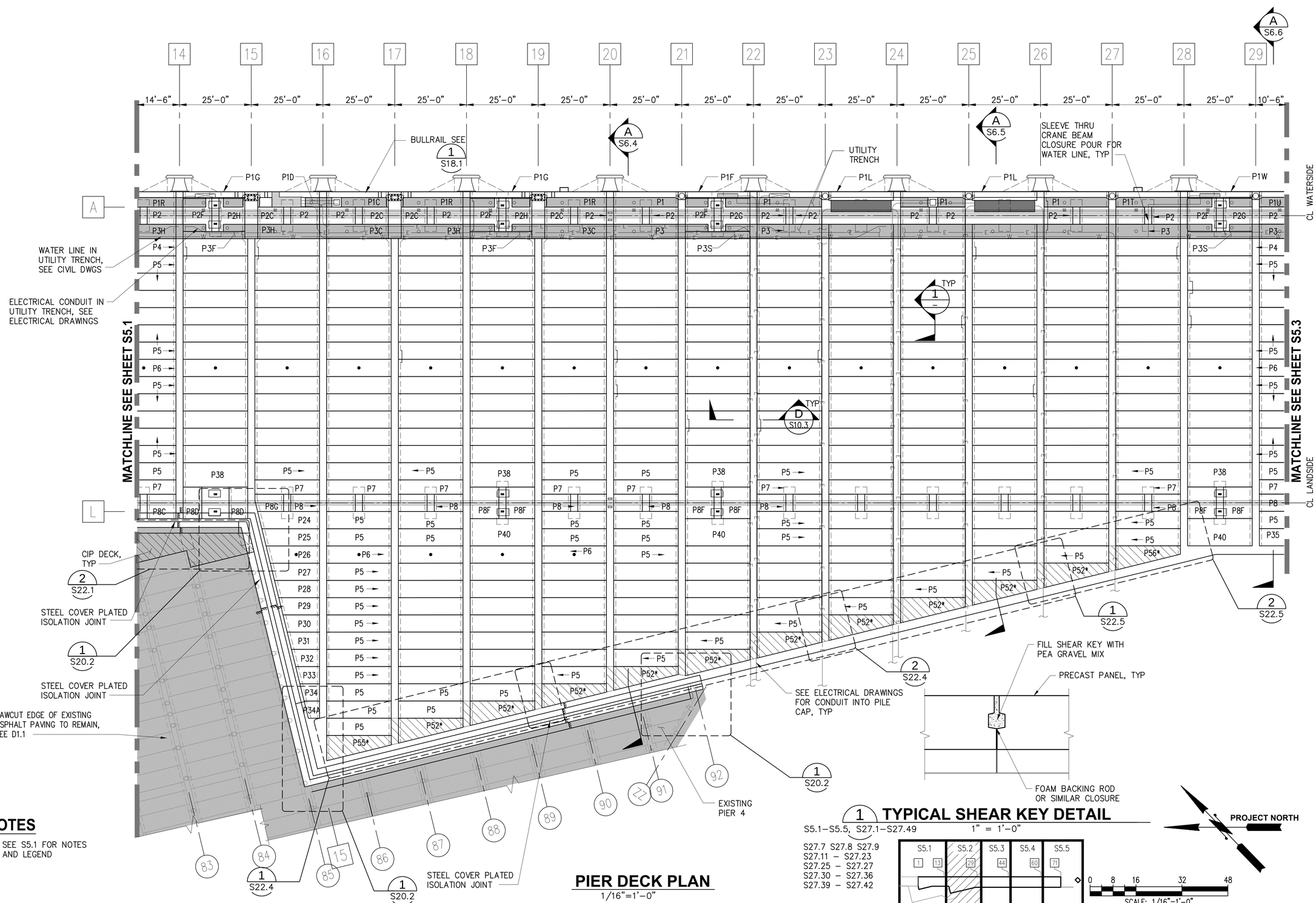
S5.1

SH 184 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S5.1



NOTES

1. SEE S5.1 FOR NOTES AND LEGEND

PIER DECK PLAN

1/16"=1'-0"

1 TYPICAL SHEAR KEY DETAIL

S5.1–S5.5, S27.1–S27.49 1" = 1'-0"

S27.7 S27.8 S27.9
S27.11 – S27.23
S27.25 – S27.27
S27.30 – S27.36
S27.39 – S27.42

KEYMAP

SCALE: 1/16"=1'-0"

PRELIMINARY

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	4/28/2016
			SEK	10/11/16

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY	SEK
PROJ. ENGR	TAH
PRINTED BY:	tlemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837
DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
PILE AND PILE CAP PLAN - SHEET 2

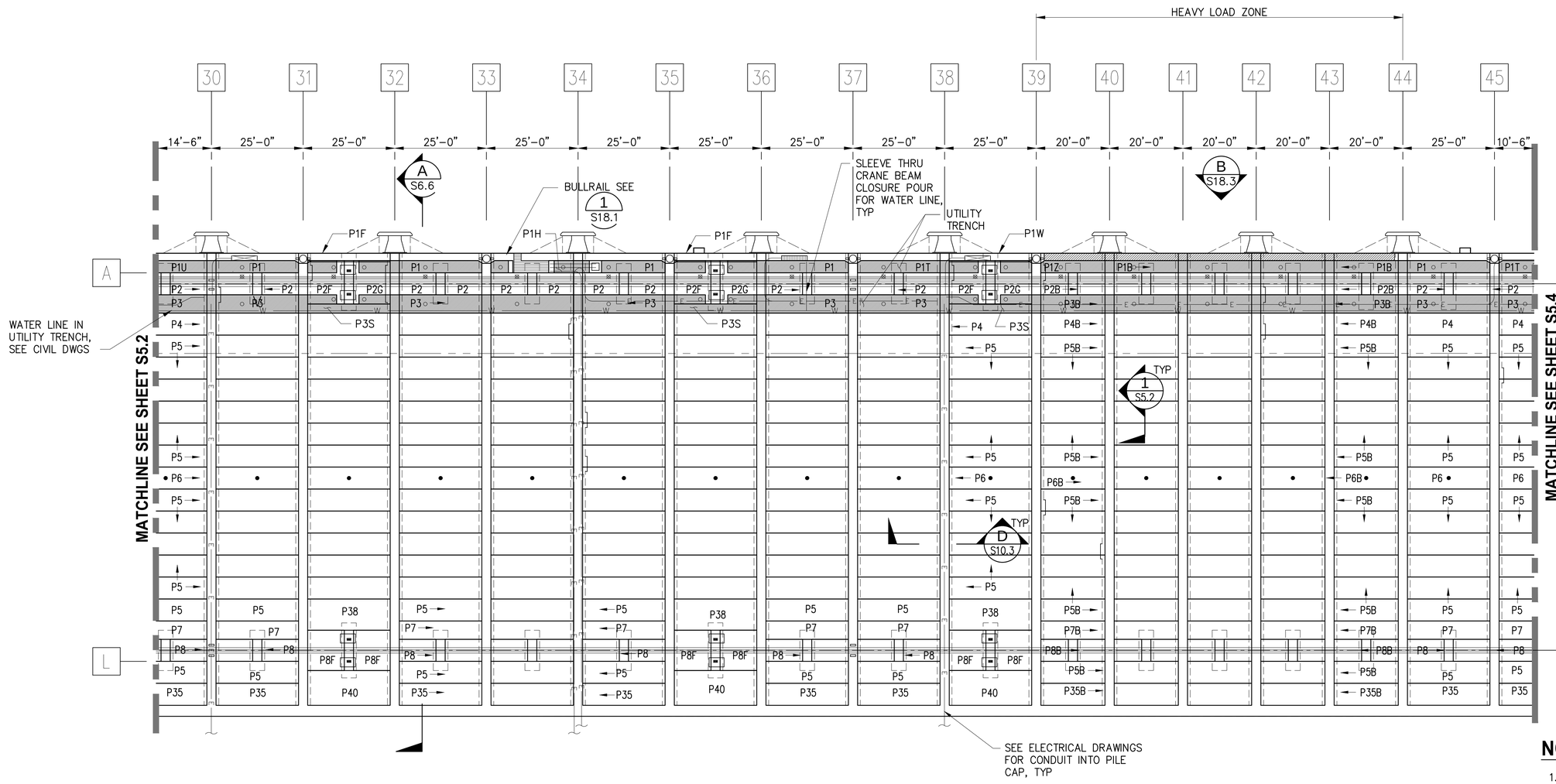
CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED
TOWNSHIP:	21N
DAT–HRZ:	WA83–SF
PARCEL:	
RANGE:	3E
VERT:	MLLW 19.39' @ Tide 22 1933
SECTION:	27

6552
S5.2
SH 180 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\CurrentPhase 2_091251\091251-S5.2

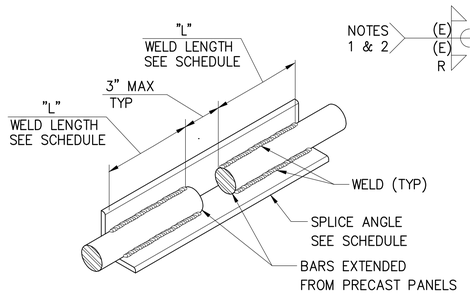


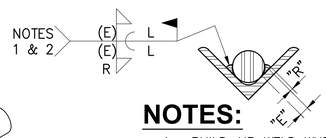
PIER DECK PLAN

1/16"=1'-0"

NOTES

1. SEE S5.1 FOR NOTES AND LEGEND





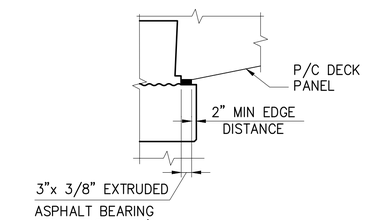
NOTES:

1. BUILD-UP WELD WHERE GAP OCCURS BETWEEN REINF BAR AND SPLICE ANGLE 3/16" MAX GAP BETWEEN BAR AND ANGLE AT ANY POINT TO BE WELDED.
2. PREHEAT PER ASW D1.4
3. USE SPLICE ANGLE LISTED FOR THE LARGER SIZE BAR WHEN SPLICING BARS OF DIFFERING SIZES.
3. WHERE BROKEN/MISSING REBAR IS ENCOUNTERED AT BENT 69, WELD A 90-DEGREE HOOKED BAR ONTO THE PROTRUDING BAR.

BAR SIZE	SPLICE ANGLE	WELD SIZE		WELD LENGTH "L"
		EFF THROAT "E"	REINF "R"	
#11	L3x3x1/2x1'-8"	5/16" MIN	1/8" MIN	8 1/2"
#10	L3x3x1/2x1'-7"	1/4" MIN	1/8" MIN	8"
#9	L3x3x3/8x1'-4"	7/32" MIN	1/8" MIN	7"
#8	L3x3x3/8x1'-3"	3/16" MIN	1/8" MIN	6"

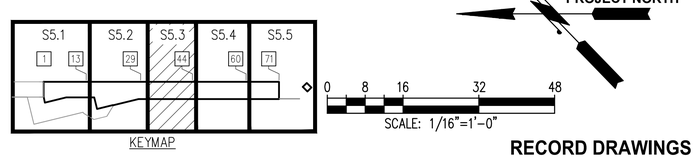
1 REBAR SPLICE

NTS



2 PILE CAP SECTION

NTS



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESSONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

PIER DECK PLAN - SHEET 3

6552
S5.3
SH 186 OF 499

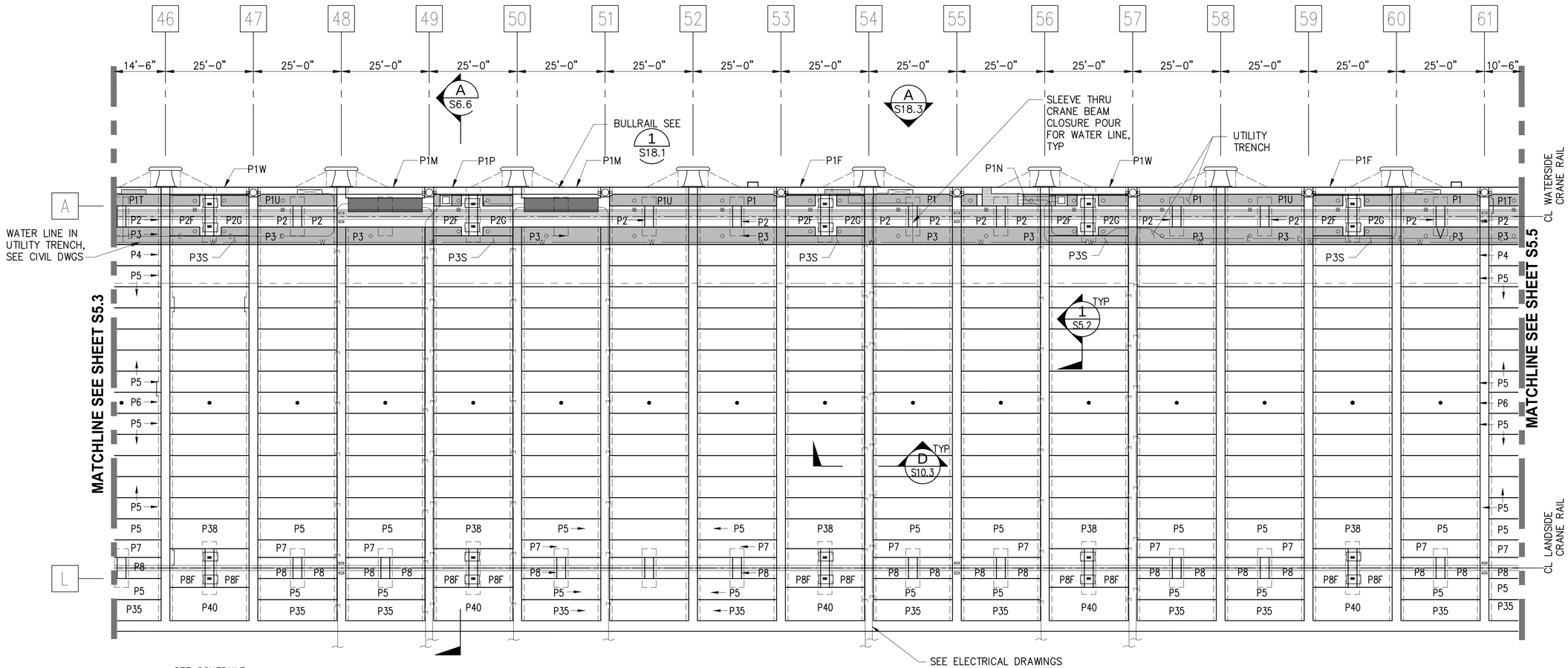
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S5.3

BINDING EDGE

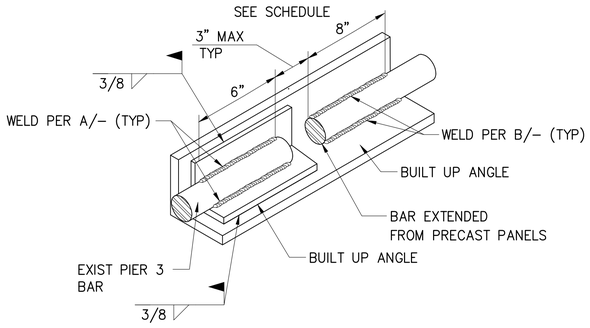


PIER DECK PLAN

1/16"=1'-0"

NOTES

1. SEE S5.1 FOR NOTES AND LEGEND



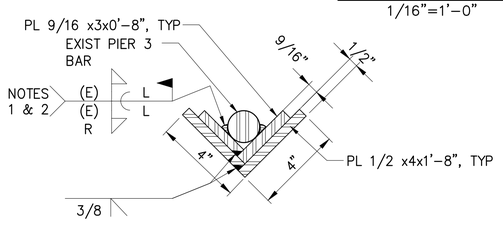
NOTES:

1. BUILD-UP WELD WHERE GAP OCCURS BETWEEN REINF BAR AND SPLICE ANGLE 3/16" MAX GAP BETWEEN BAR AND ANGLE AT ANY POINT TO BE WELDED.
2. PREHEAT PER AWS D1.4
3. USE SPLICE ANGLE LISTED FOR THE LARGER SIZE BAR WHEN SPLICING BARS OF DIFFERING SIZES.
4. L4x4x1/2" WITH INTERIOR RADII MILLED DOWN MAY BE USED IN PLACE OF (2) 1/2" PL.

BAR SIZE	WELD SIZE		WELD LENGTH "L"
	EFF THROAT "E"	REINF "R"	
#11	5/16" MIN	1/8" MIN	8 1/2"
#10	1/4" MIN	1/8" MIN	8"
#9	7/32" MIN	1/8" MIN	7"
#8	3/16" MIN	1/8" MIN	6"

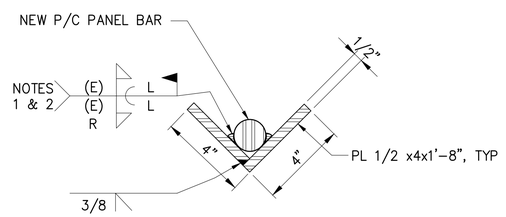
A BUILT-UP ANGLE DETAIL

NTS



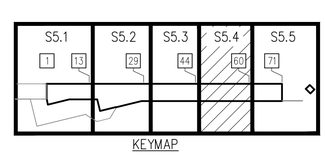
B BUILT -UP ANGLE DETAIL

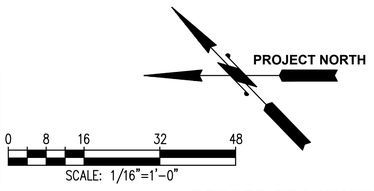
NTS



1 REBAR SPLICE

NTS





RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S5.4

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION

PIER DECK PLAN - SHEET 4

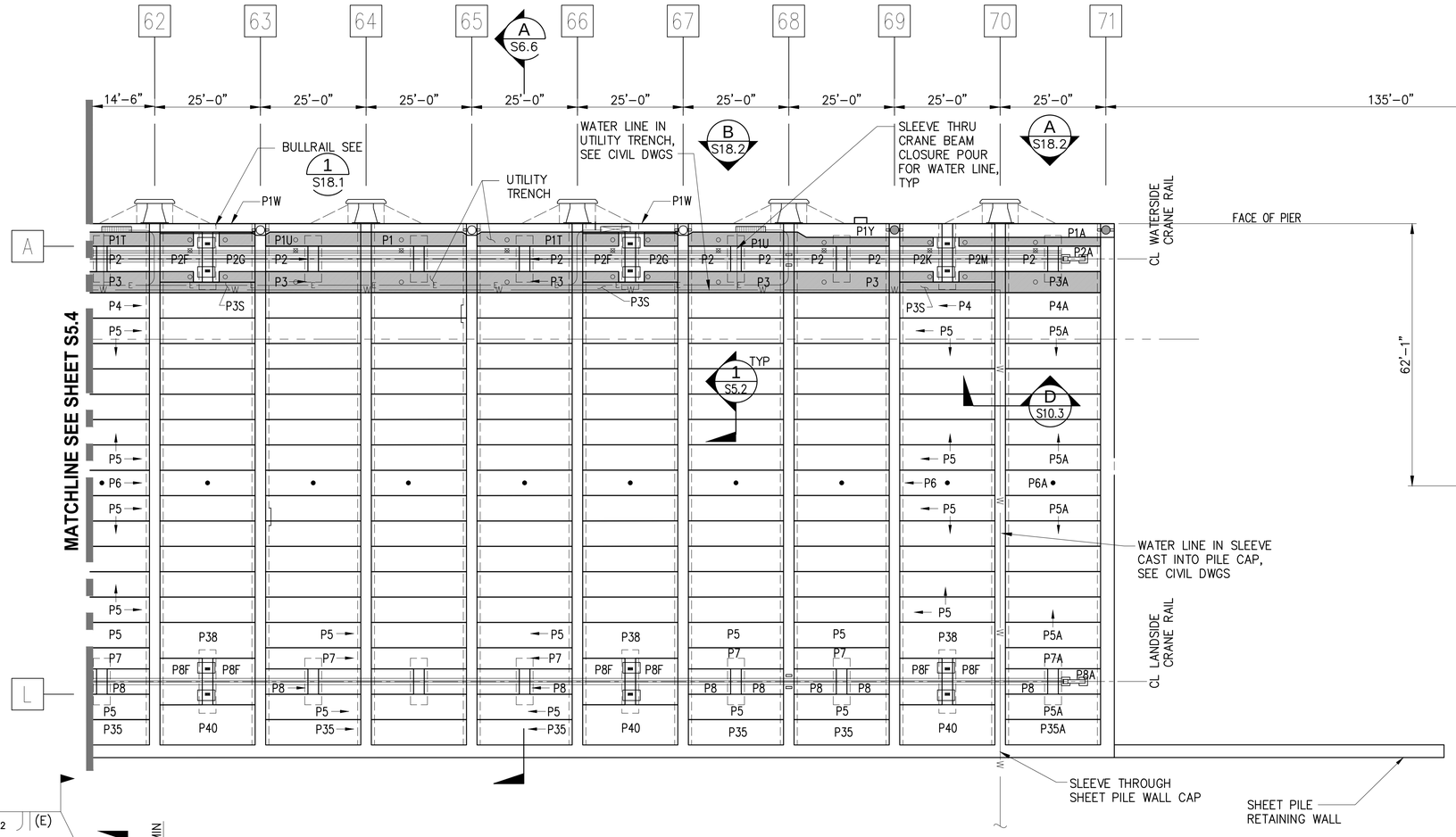
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

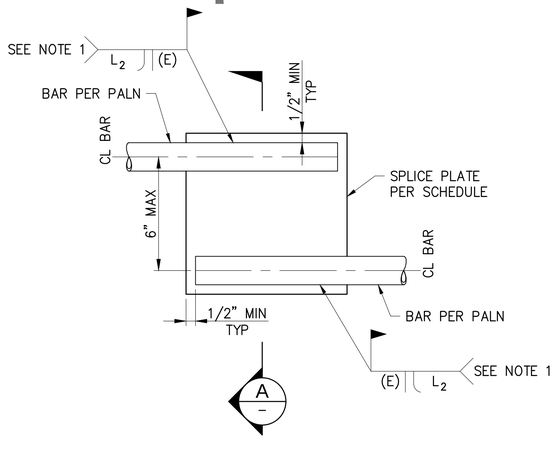
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S5.4
SH 187 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



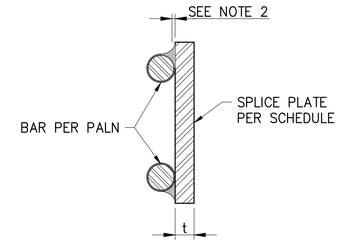


INDIRECT LAP JOINT SPLICE DETAIL

NTS

NOTES:

1. L_2 = PER SCHEDULE, 2x DIAMETER OF BAR (MIN)
2. GAPS BETWEEN BARS AND PLATE WILL VARY DEPENDING ON HEIGHT OF DEFORMATIONS BUT SHALL NOT EXCEED 1/4D OR 3/16"



SINGLE FLARE BEVEL GROOVE WELDS

A

NTS

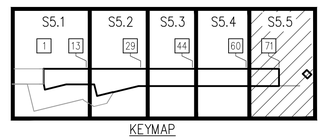
BAR SIZE	WELD SIZE		PLATE THICKNESS (t) OR 1/2"
	EFF THROAT "E"	WELD LENGTH L	
#11	5/16" MIN	9"	1/2"
#10	1/4" MIN	8 3/4"	1/2"
#9	7/32" MIN	7 3/4"	3/8"
#8	3/16" MIN	7 1/2"	3/8"

PIER DECK PLAN

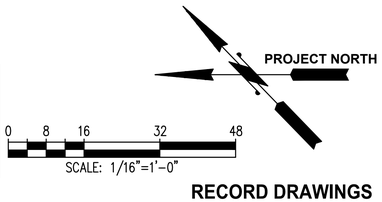
1/16"=1'-0"

NOTES

1. SEE S5.1 FOR NOTES AND LEGEND



KEYMAP



RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESSONE SITCUM PLAZA
TACOMA, WA 98401-1837

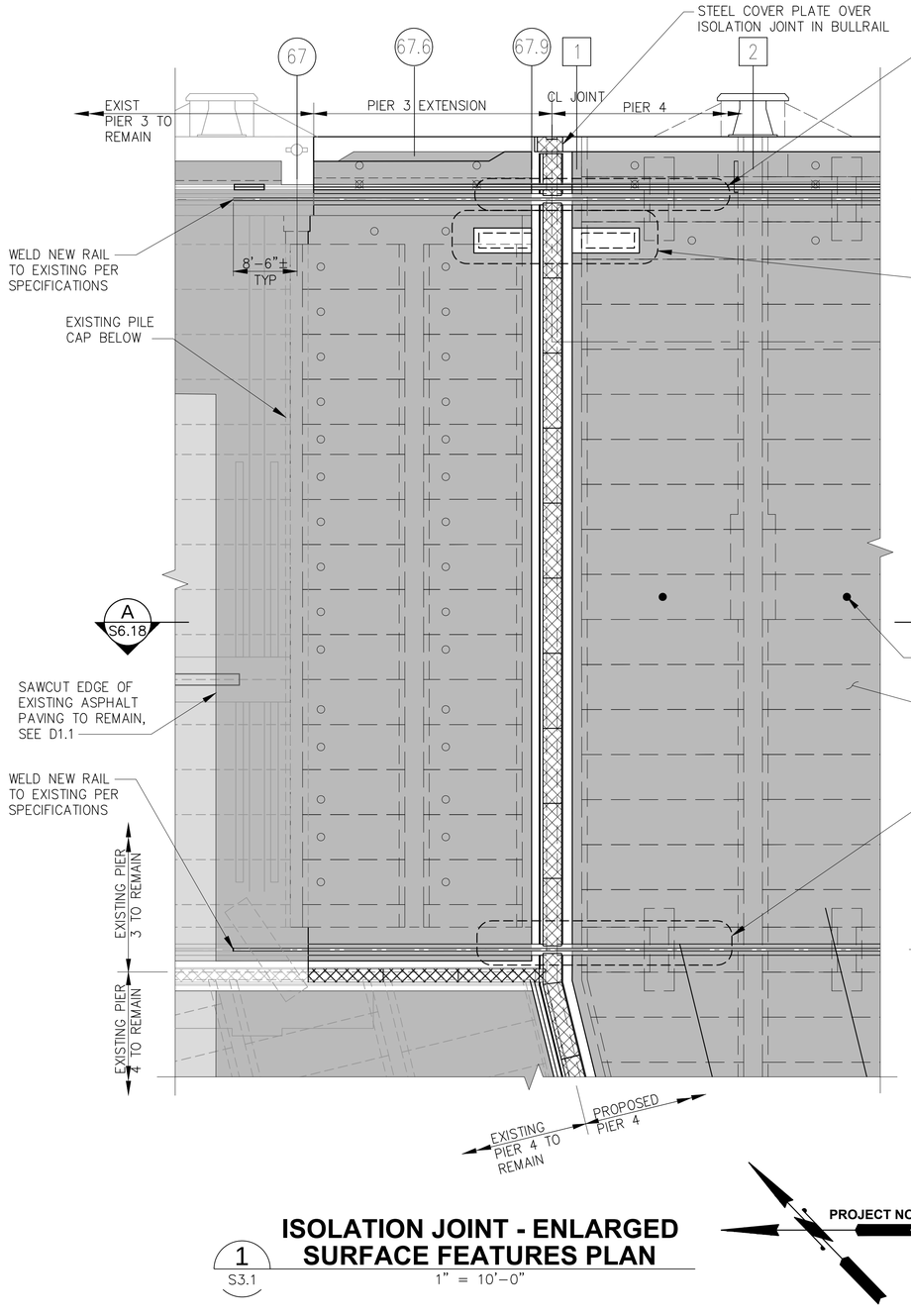
PIER 4 PHASE 2
RECONFIGURATION
PIER DECK PLAN - SHEET 5

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83–SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S5.5
SH 188 OF 499

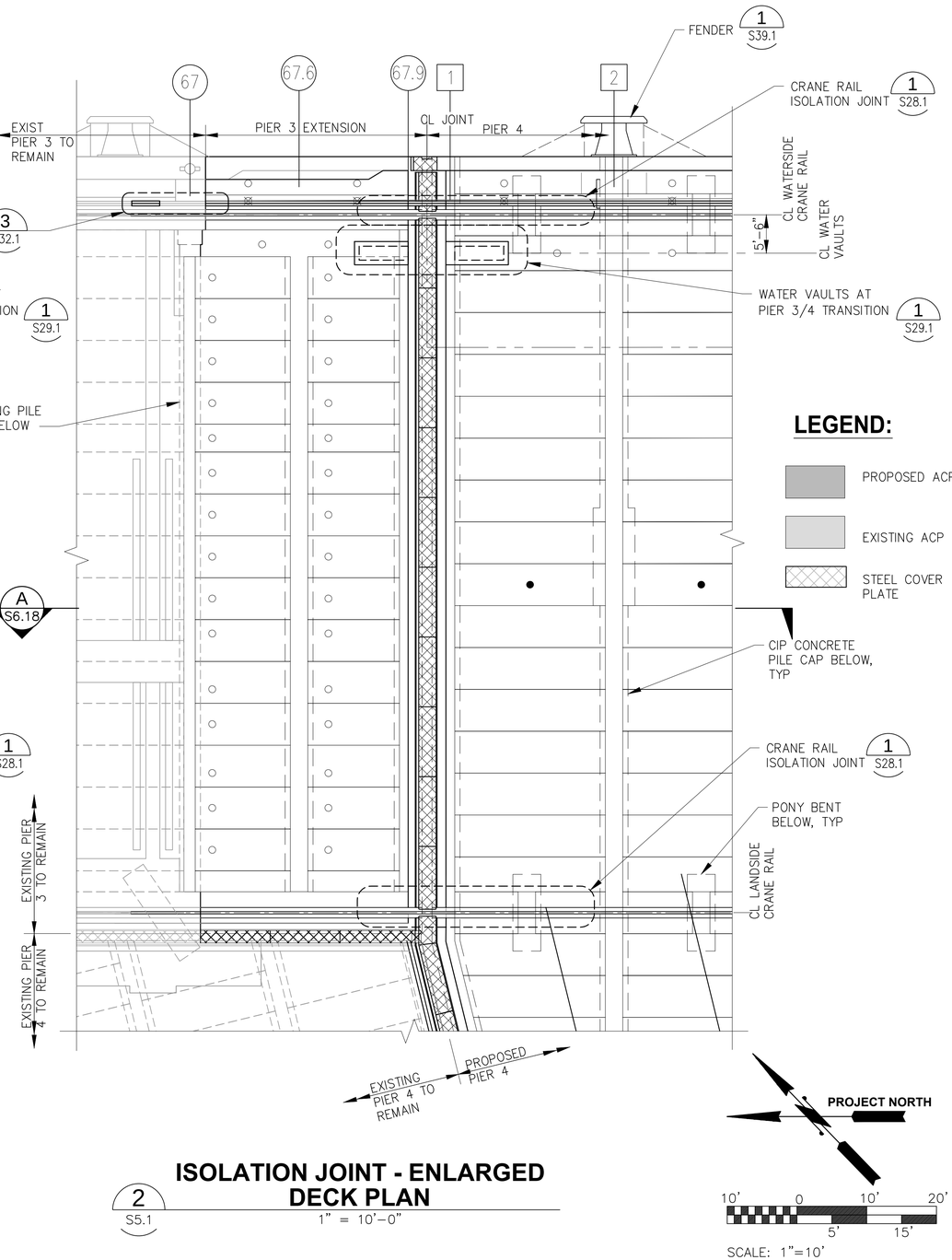
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S5.5



1 S3.1 ISOLATION JOINT - ENLARGED SURFACE FEATURES PLAN

1" = 10'-0"



2 S5.1 ISOLATION JOINT - ENLARGED DECK PLAN

1" = 10'-0"

LEGEND:

- PROPOSED ACP
- EXISTING ACP
- STEEL COVER PLATE

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S5.6

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535053041

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 3961150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

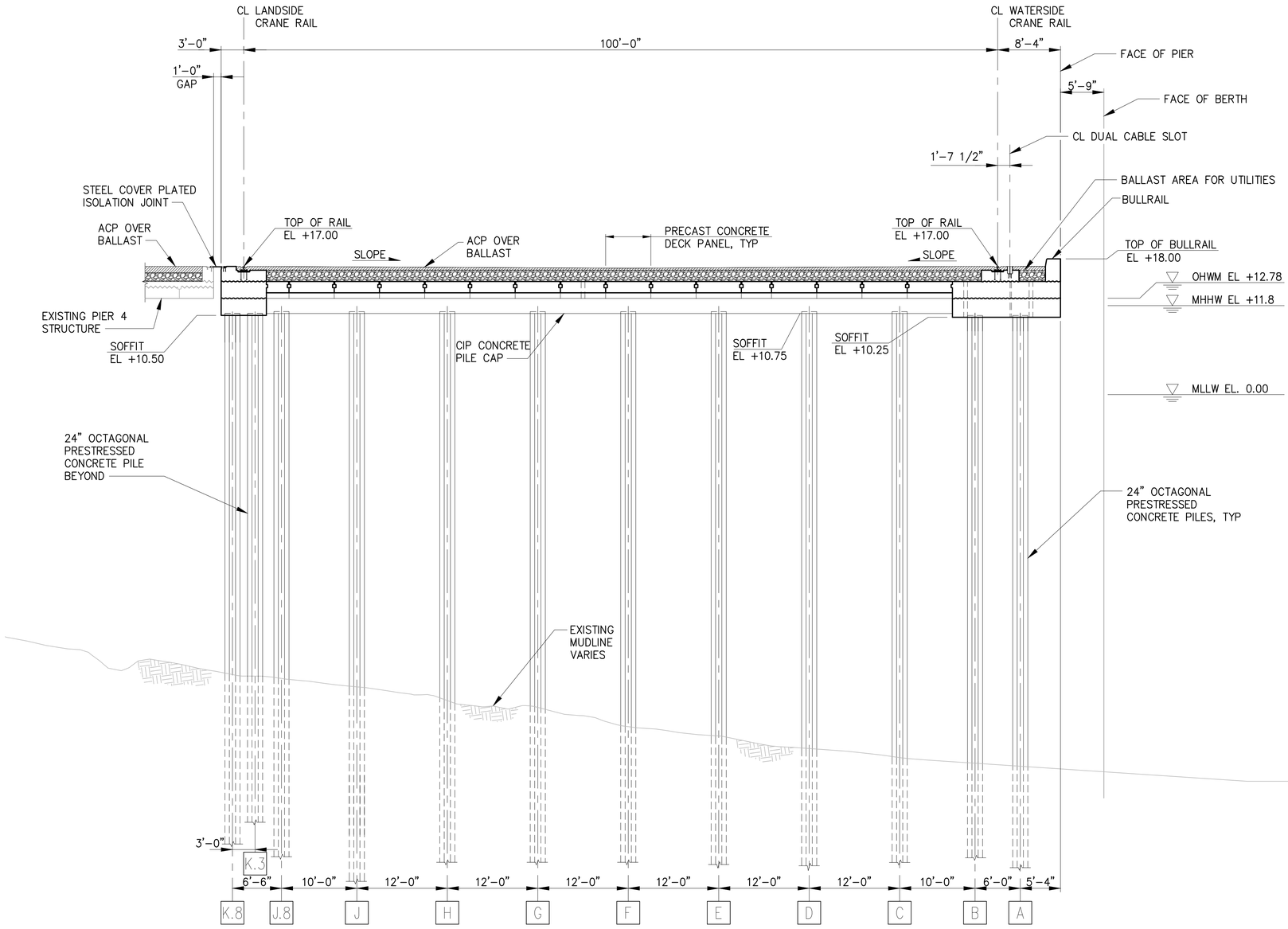
DIRECTOR ENG.	DATE	PROJ. ENGR
		TAH
CHECKED BY		SEK
PRINTED BY:	tlemons	Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
PIER PARTIAL PLANS AT PIER 3/4 JOINT

6552
S5.6
SH 189 OF 499

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ:	VERT:
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



OVERALL PIER CROSS SECTION AT PIER 3 BENT 67.6

A
S4.1, S5.1

1/8"=1'–0"

0 8 16 24
SCALE: 1/8"=1'–0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.1

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
PROJ. ENGR DATE

APPROVED:

PRINTED BY: tiemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

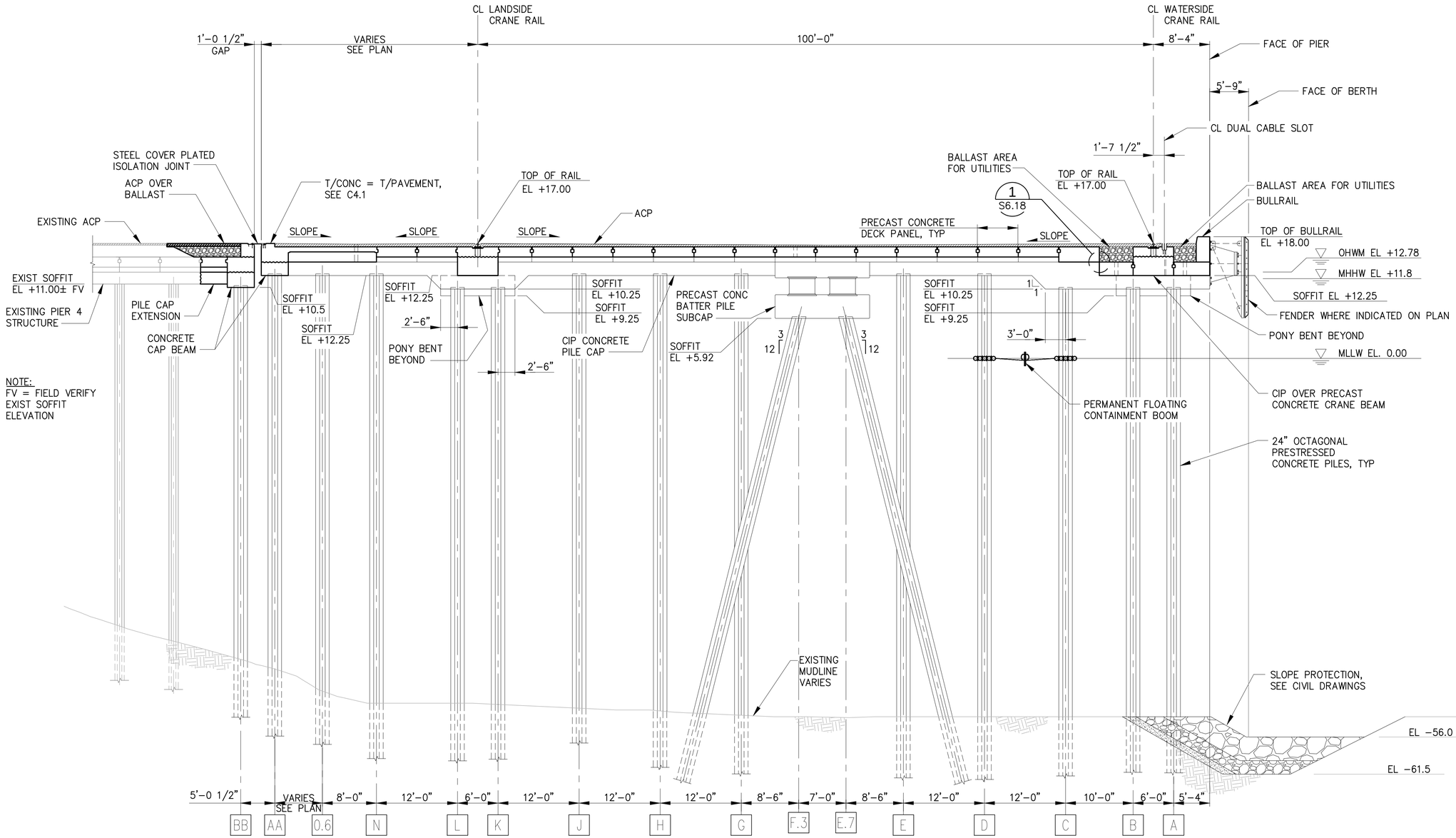
PIER 4 PHASE 2 RECONFIGURATION
OVERALL PIER CROSS SECTION AT PIER 3 BENT 67.6

6552
S6.1
SH 190 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



NOTE:
FV = FIELD VERIFY EXIST SOFFIT ELEVATION

OVERALL PIER CROSS SECTION AT BENT 3

A
S4.1, S5.1

1/8"=1'-0"

0 8 16 24
SCALE: 1/8"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

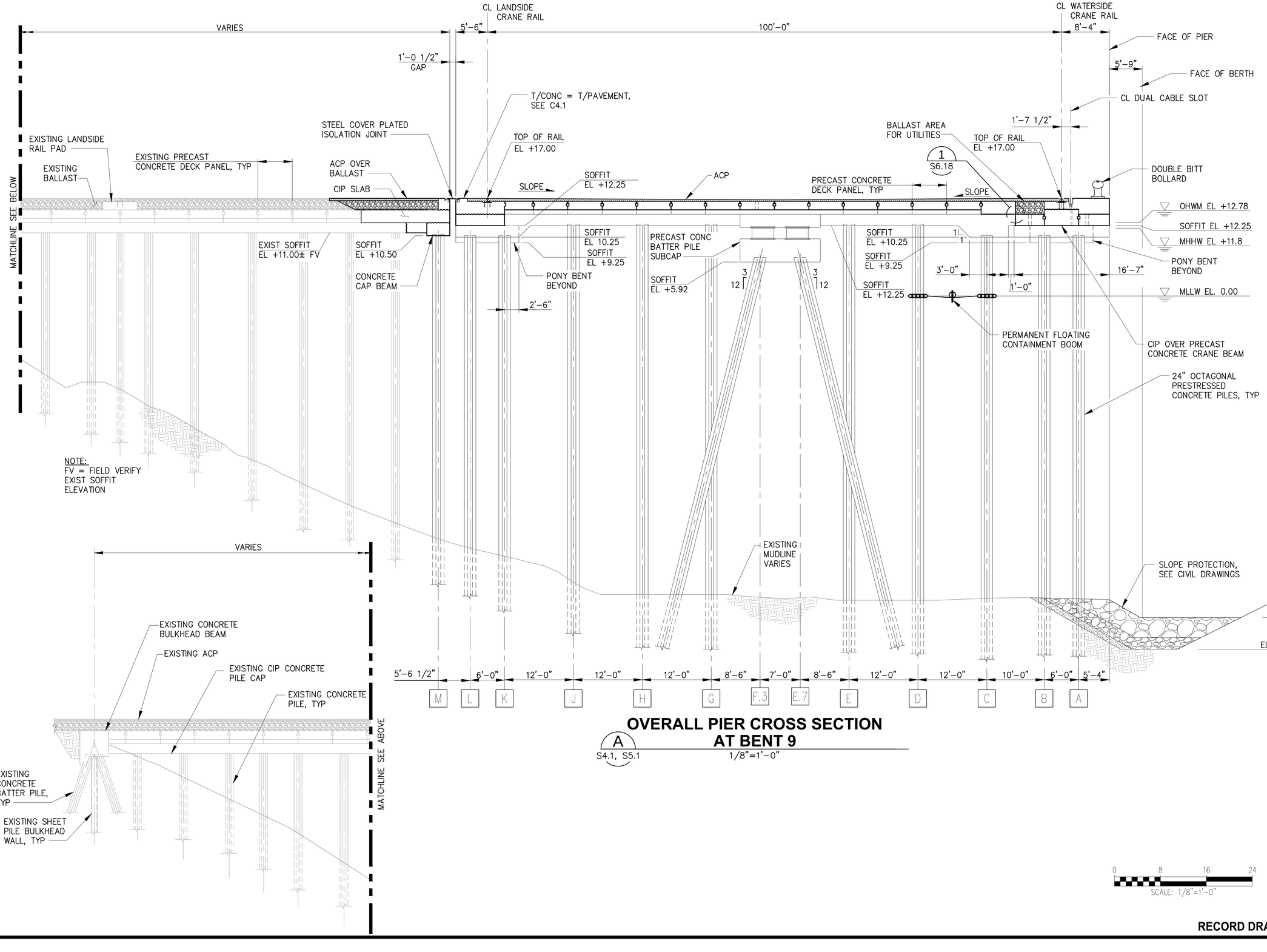
PIER 4 PHASE 2
RECONFIGURATION
OVERALL PIER CROSS SECTION AT BENT 3

6552
S6.2
SH 191 OF 499

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912.51	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.2



OVERALL PIER CROSS SECTION AT BENT 9

A S4.1, S5.1 — 1/8"=1'-0"

0 8 16 24
SCALE: 1/8"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.3

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

	SEK	CHECKED BY	DATE
	TAH	PROJ. ENGR	DATE
DIRECTOR ENG. DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			

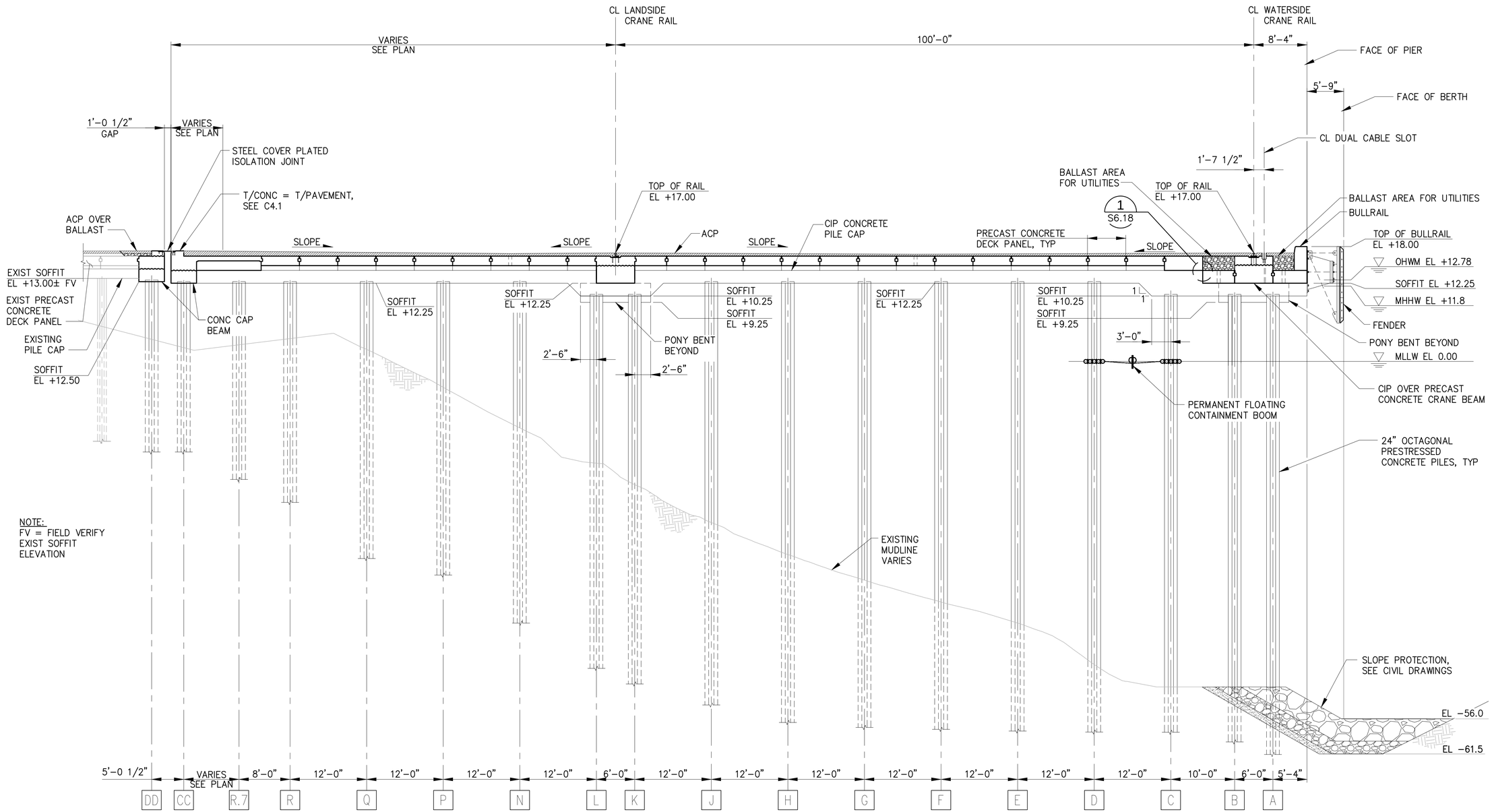
PIER 4 PHASE 2 RECONFIGURATION
OVERALL PIER CROSS SECTION AT BENT 9

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912S1	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S6.3
SH 192 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



NOTE:
FV = FIELD VERIFY EXIST SOFFIT ELEVATION

OVERALL PIER CROSS SECTION AT BENT 20

A
S4.2, S5.2

1/8" = 1'-0"

0 8 16 24
SCALE: 1/8"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

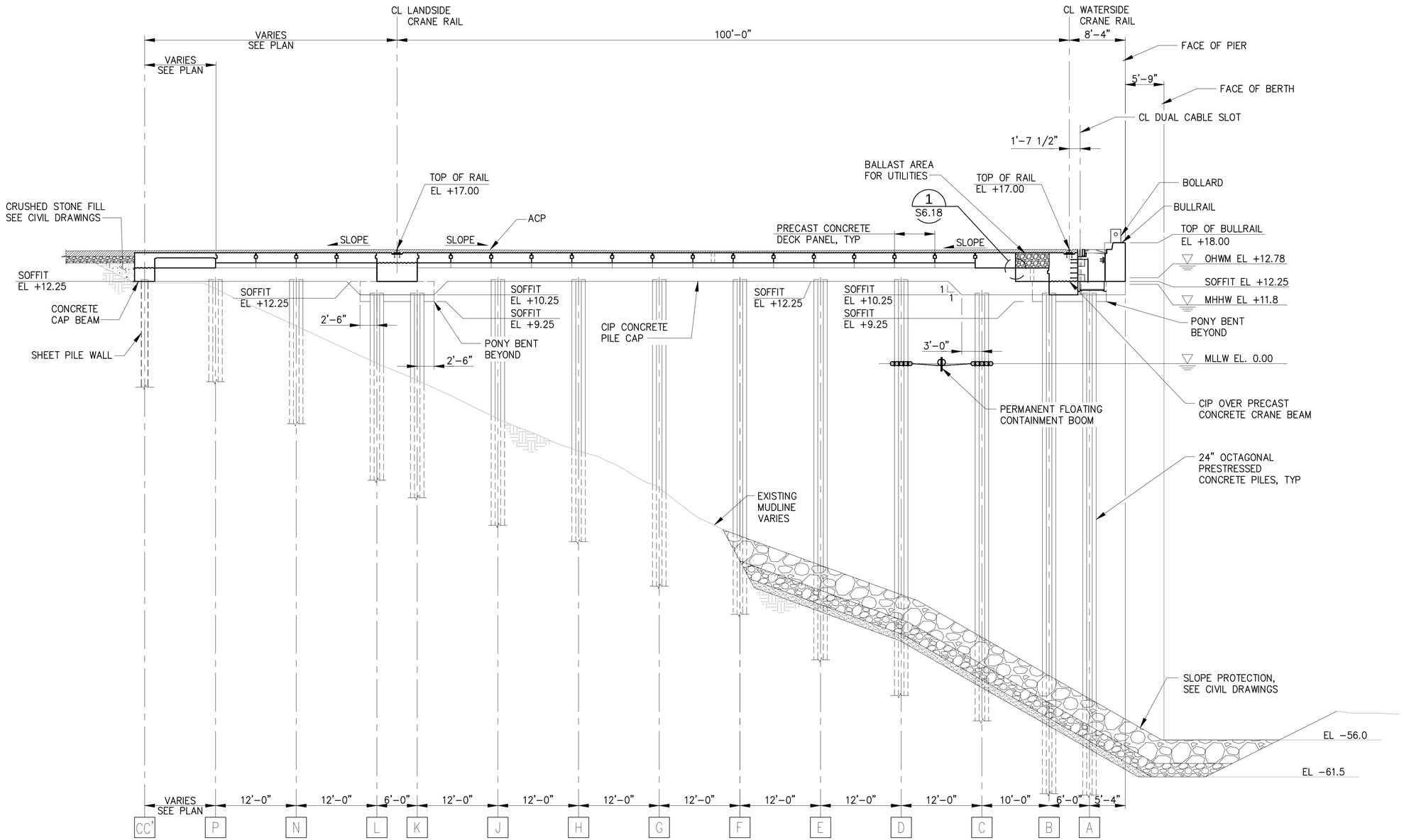
PIER 4 PHASE 2 RECONFIGURATION
OVERALL PIER CROSS SECTION AT BENT 20

SEK CHECKED BY DATE			
TAH PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S6.4
SH 193 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.4



OVERALL PIER CROSS SECTION AT BENT 25

A S4.2, S5.2 — 1/8" = 1'-0"

0 8 16 24
SCALE: 1/8"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
OVERALL PIER CROSS SECTION AT BENT 25

SEK CHECKED BY DATE			
TAH PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

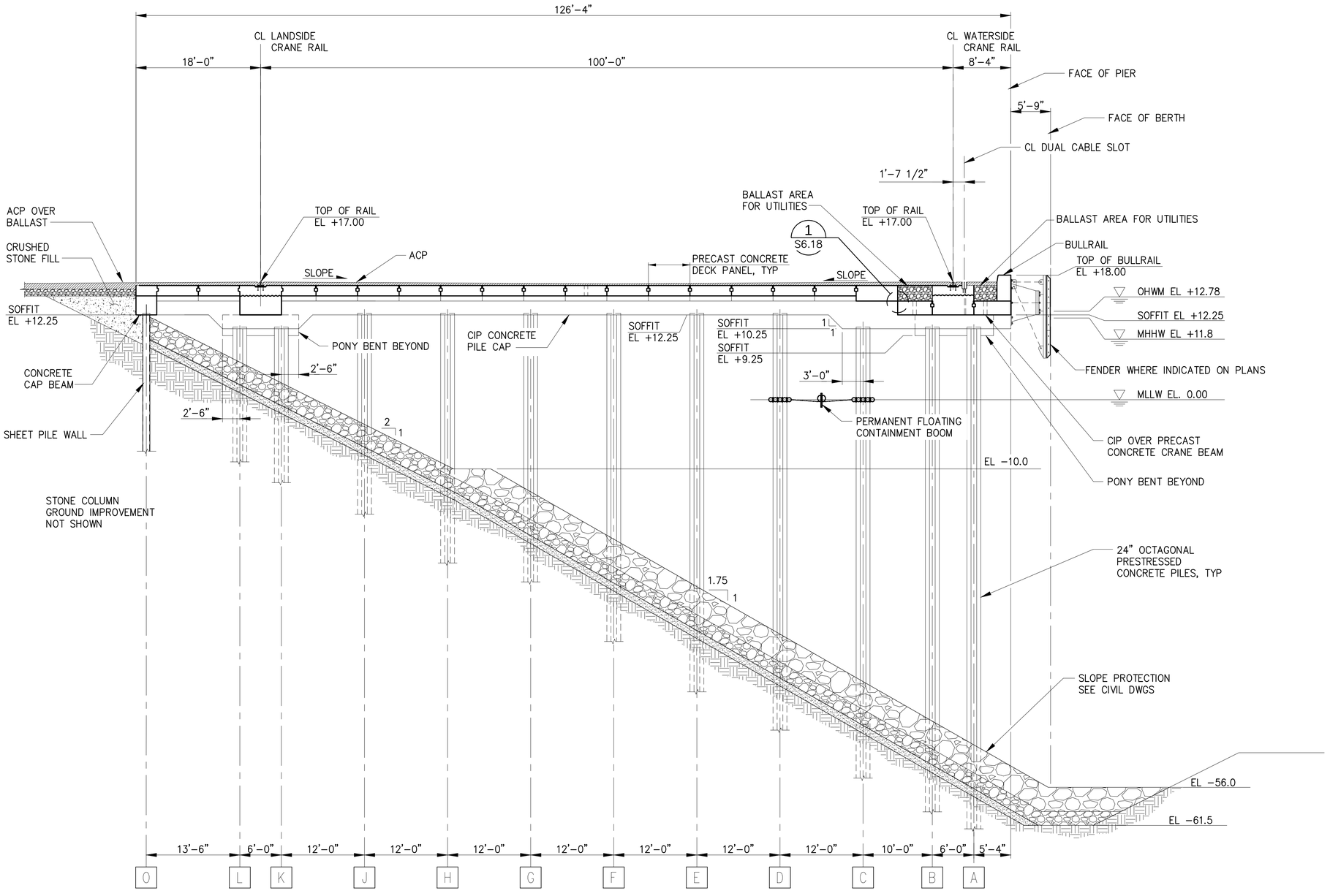
6552
S6.5
SH 194 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.5

BINDING EDGE



OVERALL PIER CROSS SECTION AT BENTS 29 TO 71

A

S4.2, S4.3, S4.4, S4.5
S5.2, S5.3, S5.4, S5.5

1/8" = 1'–0"

0 8 16 24
SCALE: 1/8"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
OVERALL PIER CROSS SECTION AT BENTS 29 TO 71

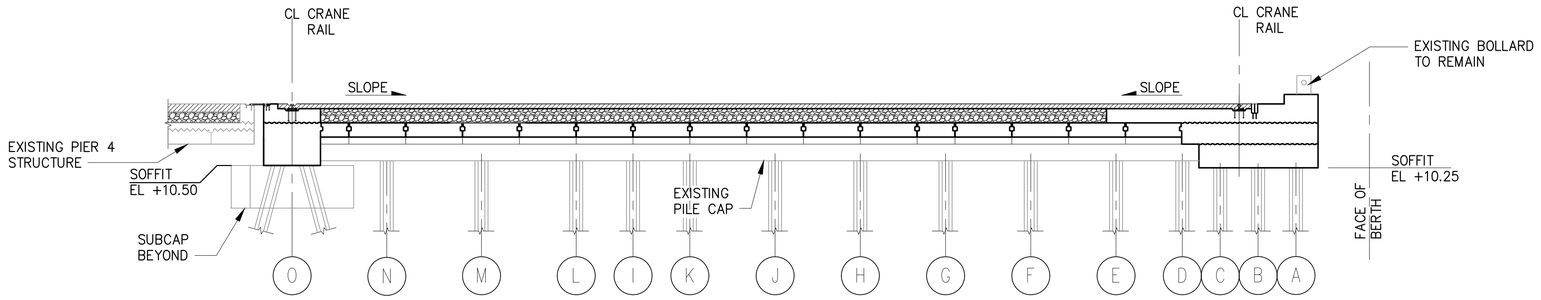
6552
S6.6
SH 195 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

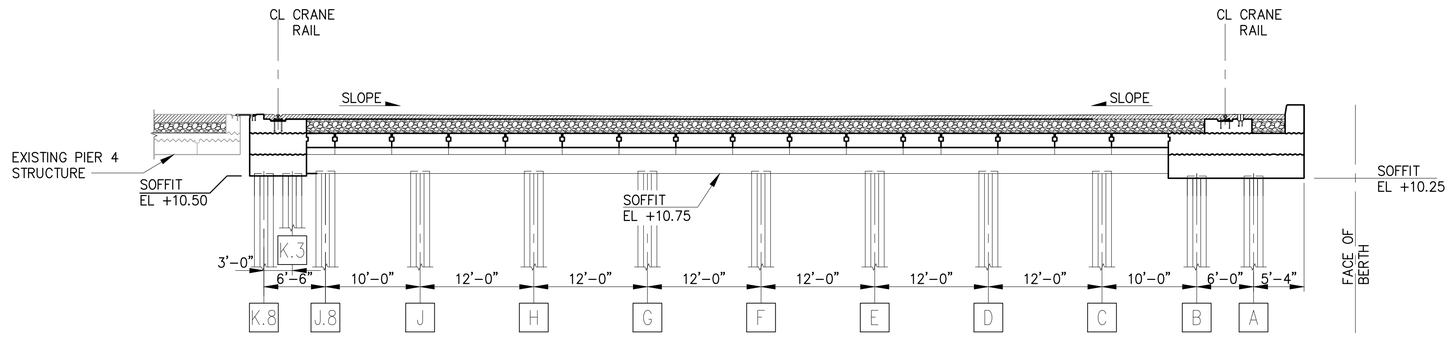
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.6



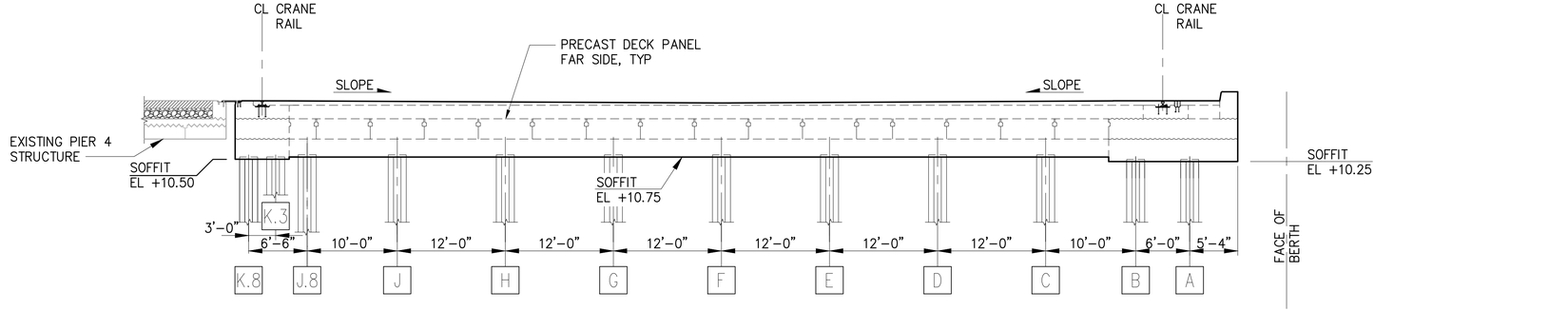
A PIER SECTION - PIER 3 BENT 67

S5.1 — 1/8" = 1'-0"



B PIER SECTION - PIER 3 EXTENSION BENT 67.6

S5.1 — 1/8" = 1'-0"



C PIER SECTION - PIER 3 EXTENSION BENT 67.9

S5.1 — 1/8" = 1'-0"

0 8 16 24

SCALE: 1/8"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-I114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.7

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

PROJ. ENGR

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

PIER SECTIONS - SHEET 1

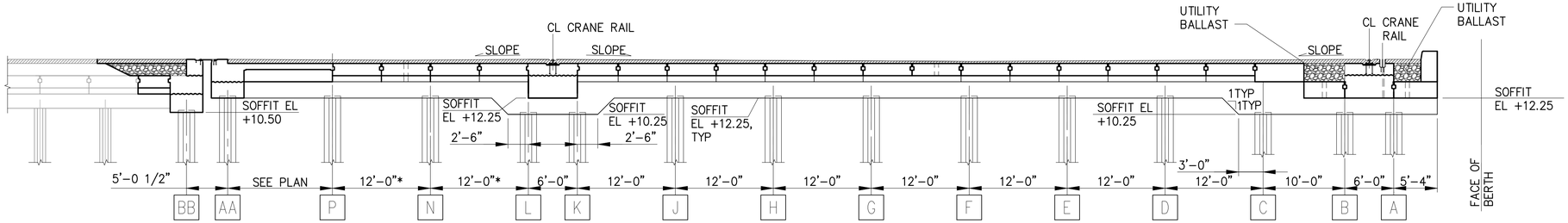
6552

S6.7

SH 196 OF 499

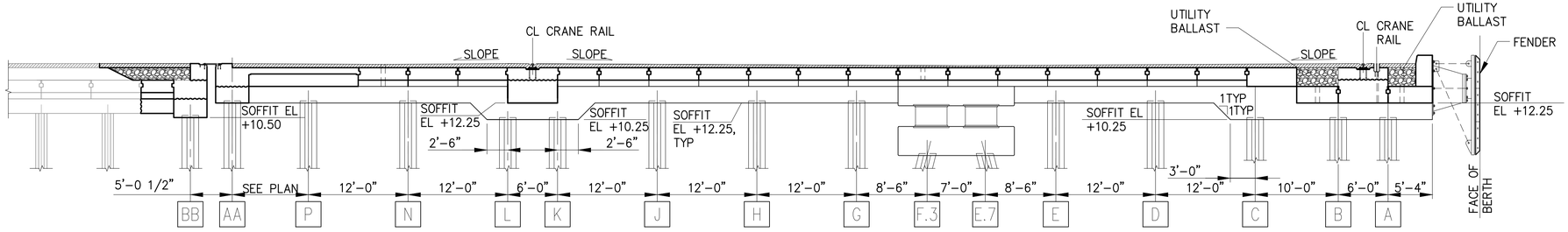
CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

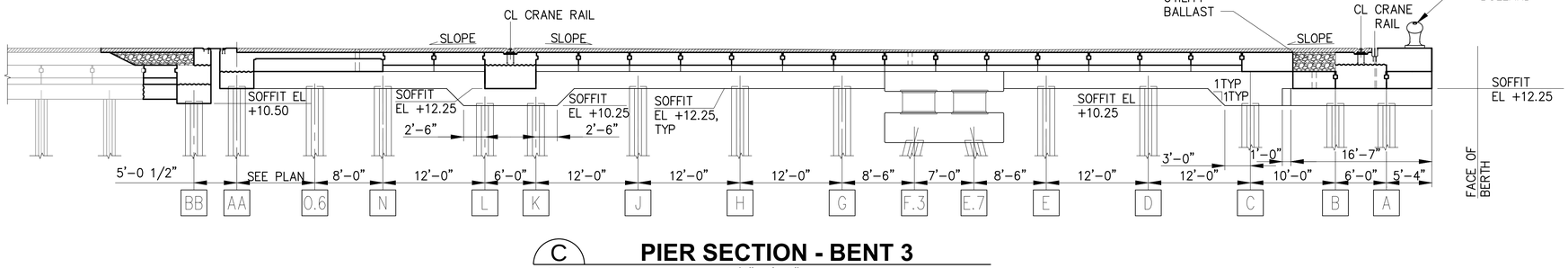


* PROJECTED DIMENSION

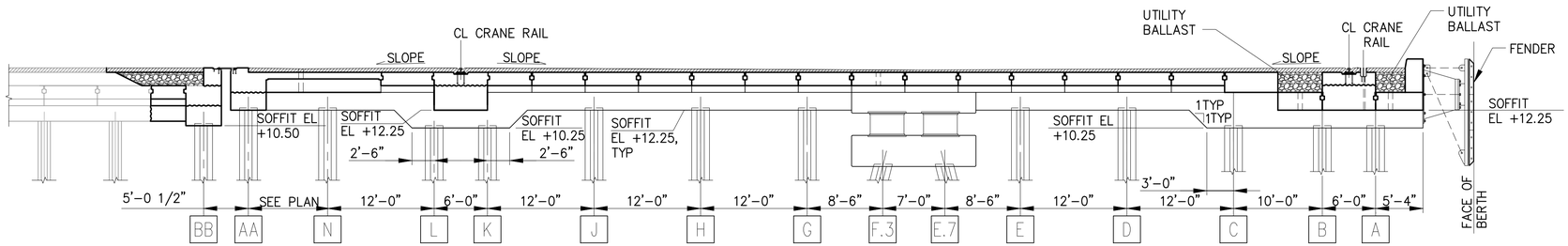
A S5.1 **PIER SECTION - BENT 1**
1/8"=1'-0"



B S5.1 **PIER SECTION - BENT 2**
1/8"=1'-0"



C S5.1 **PIER SECTION - BENT 3**
1/8"=1'-0"



D S5.1 **PIER SECTION - BENT 4**
1/8"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.8

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

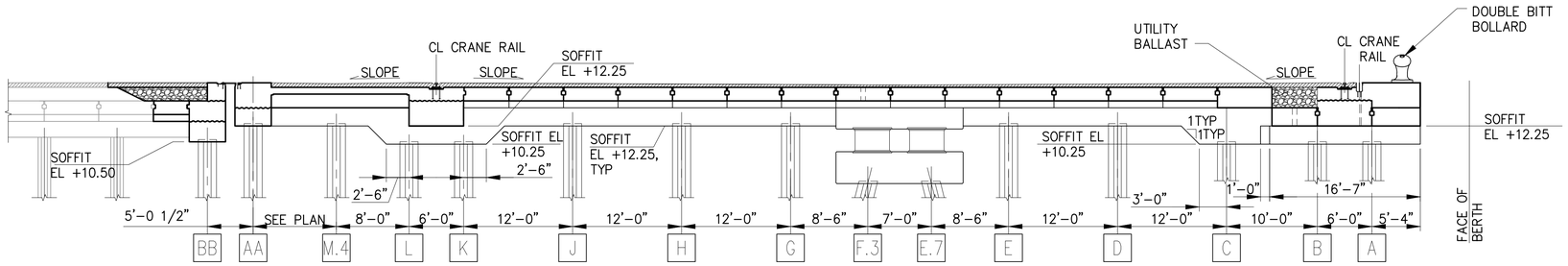
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

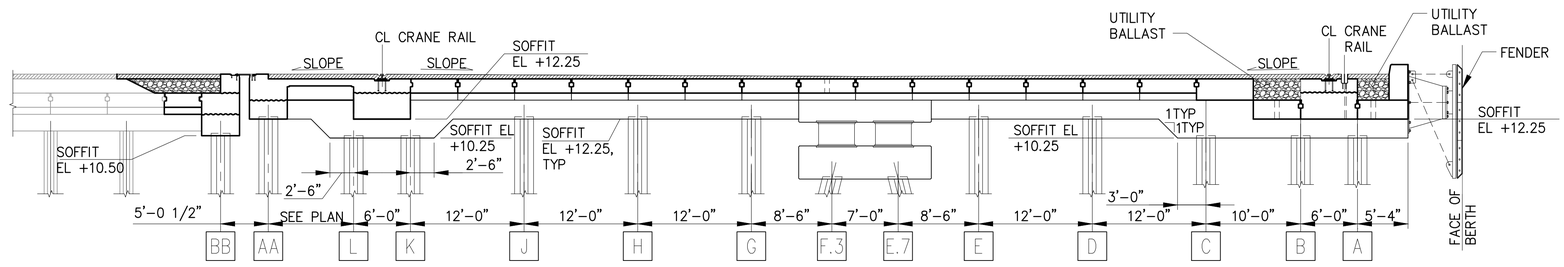
6552
S6.8
SH 197 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



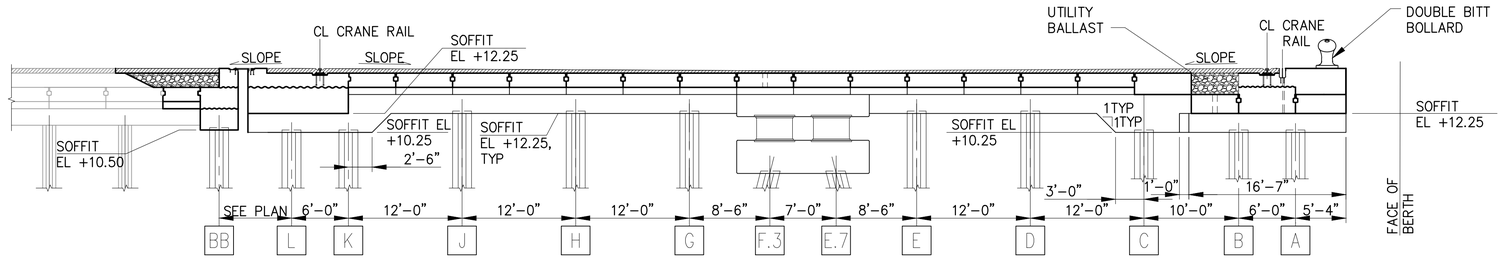
A S5.1 **PIER SECTION - BENT 5**

1/8"=1'-0"



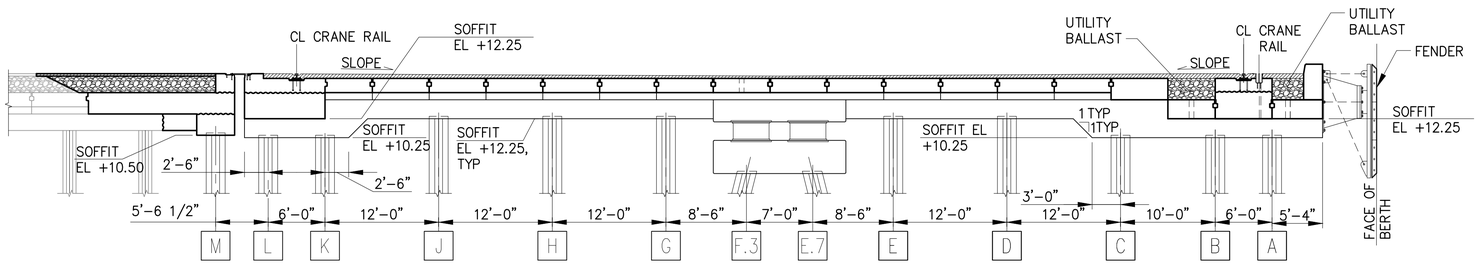
B S5.1 **PIER SECTION - BENT 6**

1/8"=1'-0"



C S5.1 **PIER SECTION - BENT 7**

1/8"=1'-0"



D S5.1 **PIER SECTION - BENTS 8 AND 10**

1/8"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.9

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons	Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA		
TACOMA, WA 98401-1837			

APPROVED:

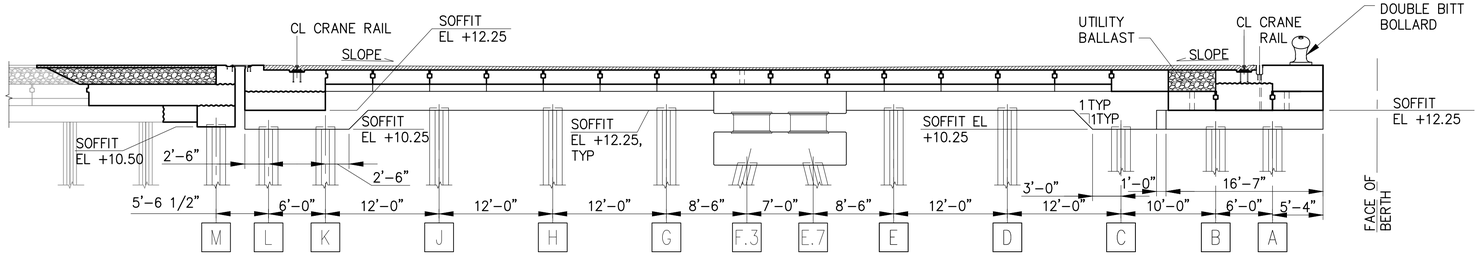
PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 3

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
S6.9
SH 198 OF 499

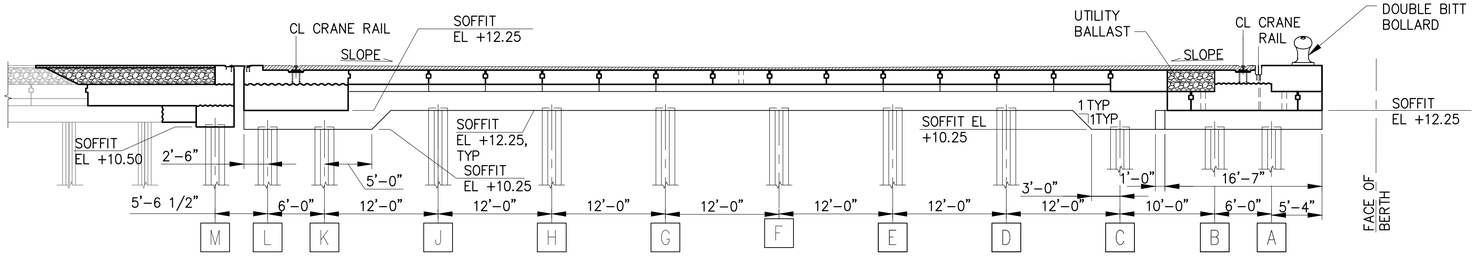
CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



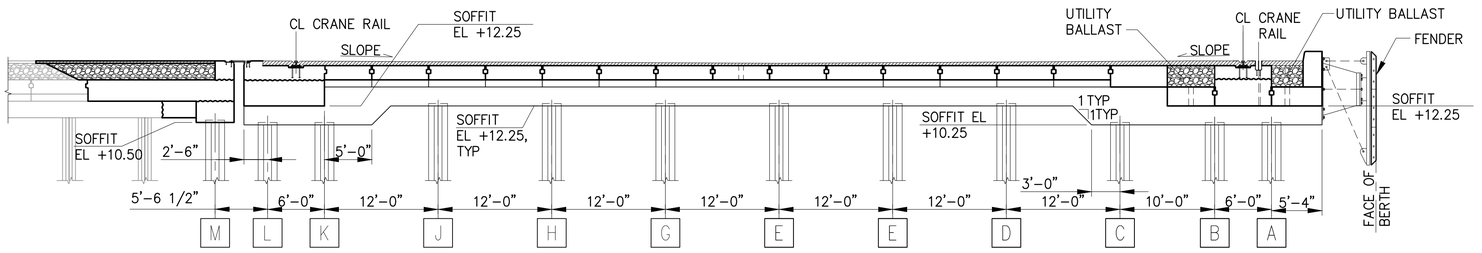
A S5.1 **PIER SECTION - BENT 9**

1/8"=1'–0"



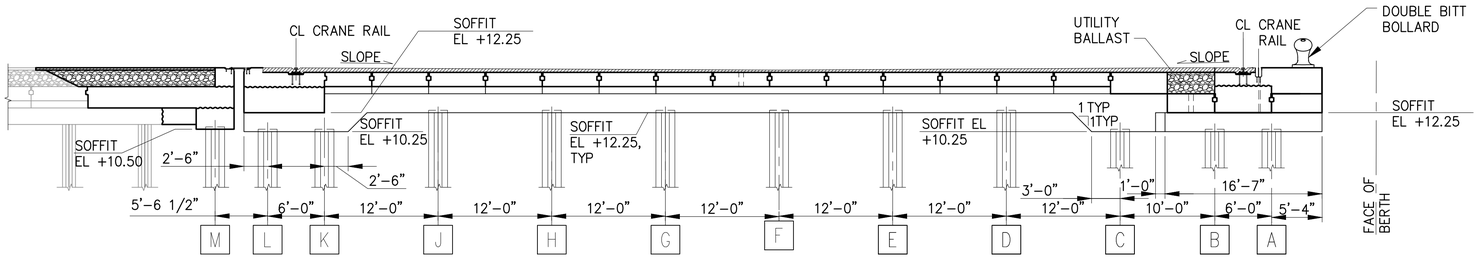
B S5.1 **PIER SECTION - BENT 11**

1/8"=1'–0"



C S5.1 **PIER SECTION - BENTS 12**

1/8"=1'–0"



D S5.1 **PIER SECTION - BENTS 13**

1/8"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY: DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 4

6552
S6.10
SH 199 OF 499

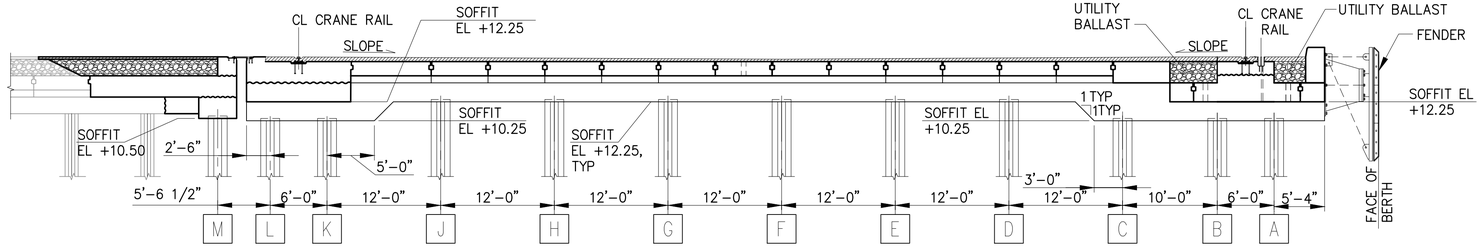
CONT/CONS:	0701.36	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

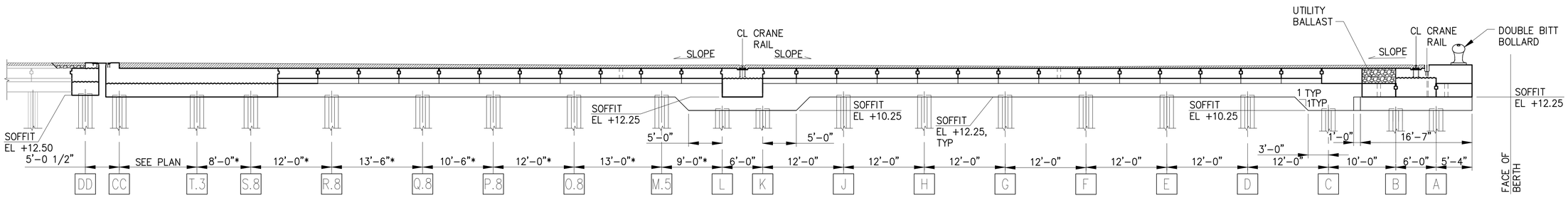
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.10

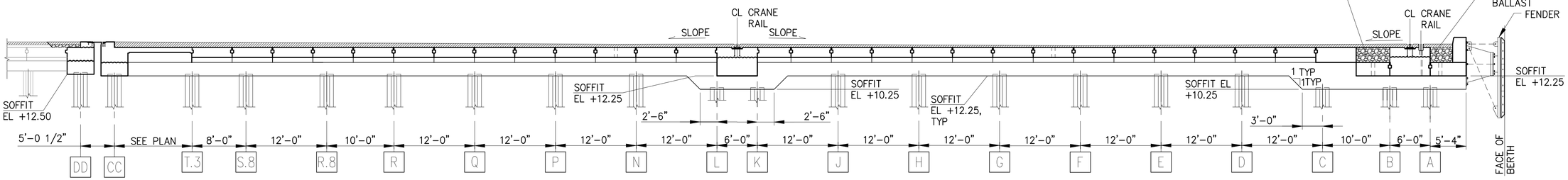


A S5.1 **PIER SECTION - BENTS 14**
1/8"=1'-0"

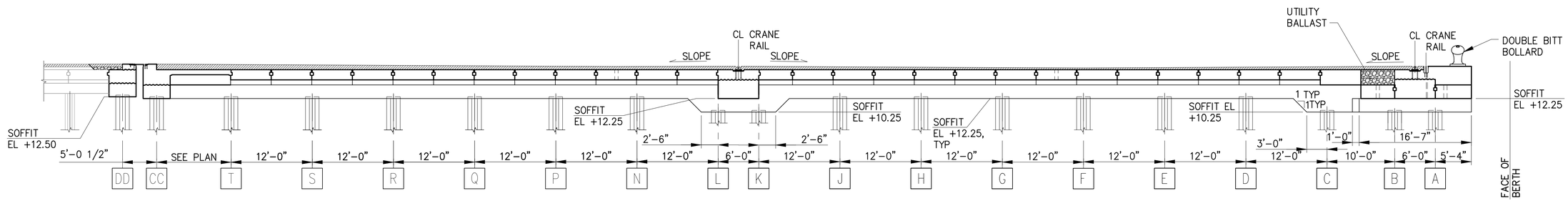


* PROJECTED DIMENSION

B S5.1 **PIER SECTION - BENT 15**
1/8"=1'-0"



C S5.1 **PIER SECTION - BENT 16**
1/8"=1'-0"



D S5.1 **PIER SECTION - BENT 17**
1/8"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.11

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 * FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE
PRINTED BY:
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

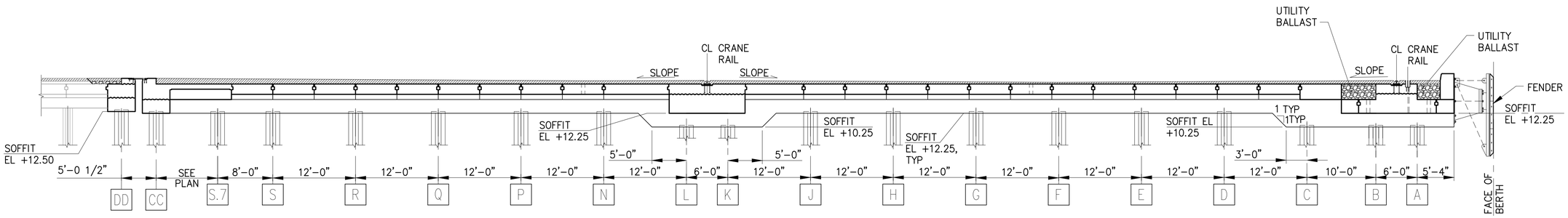
APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 5

6552
S6.11
SH 200 OF 499

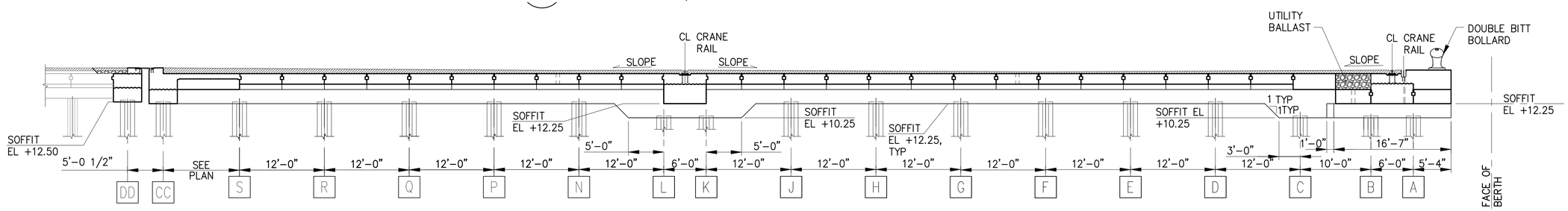
CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



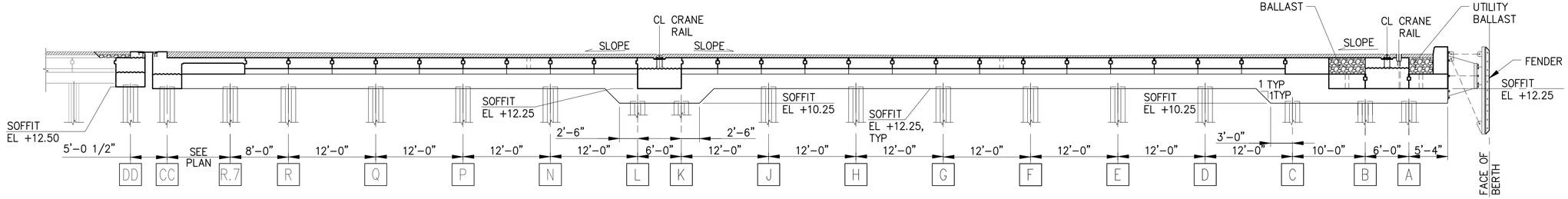
A S5.1 **PIER SECTION - BENT 18**

1/8"=1'-0"



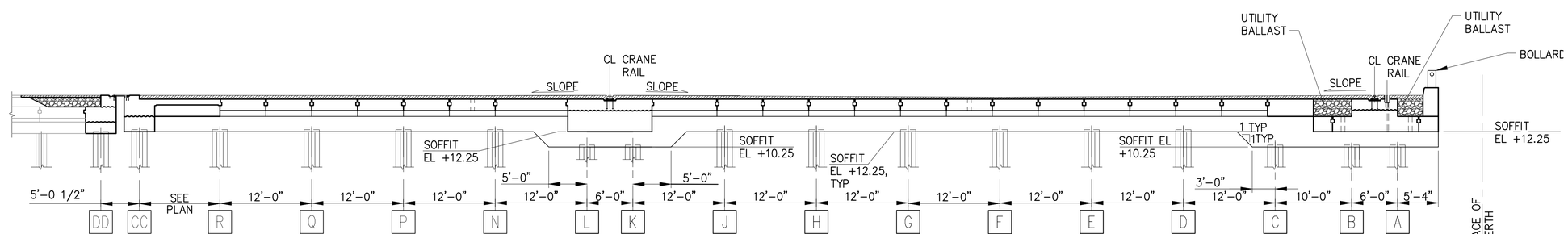
B S5.1 **PIER SECTION - BENT 19**

1/8"=1'-0"



C S5.1 **PIER SECTION - BENT 20**

1/8"=1'-0"



D S5.1 **PIER SECTION - BENT 21**

1/8"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.12

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

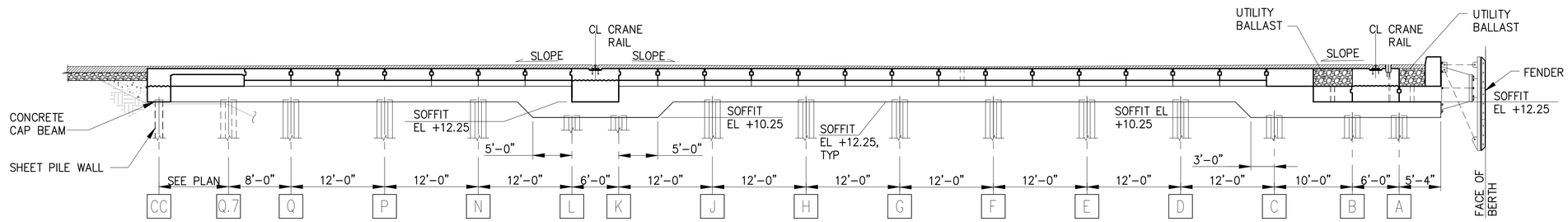
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 6

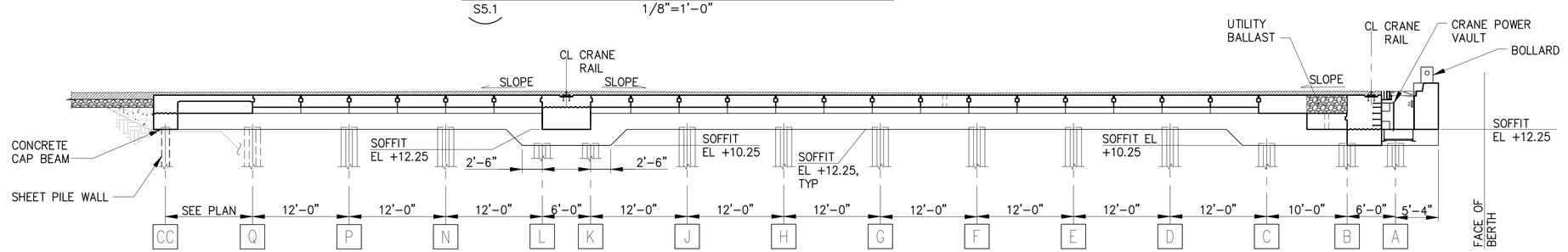
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S6.12
SH 201 OF 499

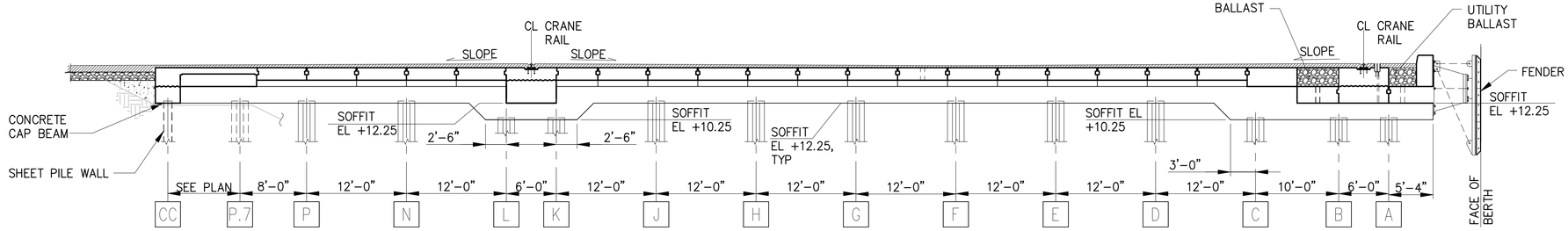
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



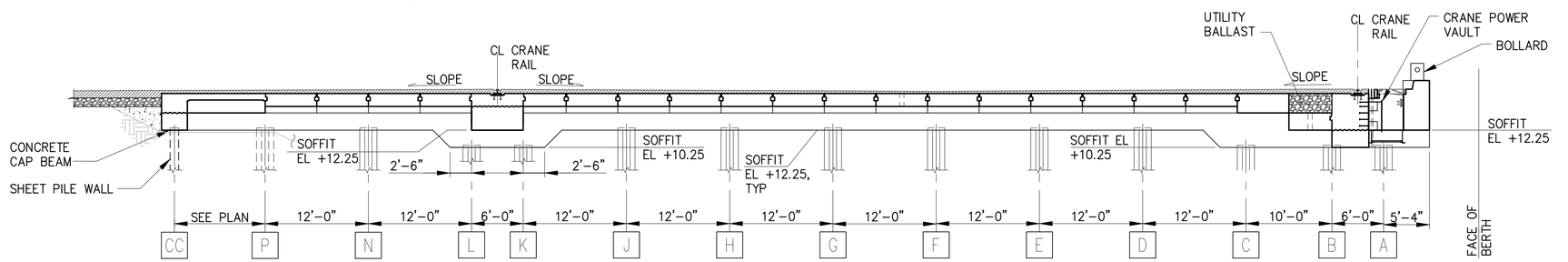
A S5.1 **PIER SECTION - BENT 22**
1/8"=1'-0"



B S5.1 **PIER SECTION - BENT 23**
1/8"=1'-0"



C S5.1 **PIER SECTION - BENT 24**
1/8"=1'-0"



D S5.1 **PIER SECTION - BENT 25**
1/8"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535305041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
DIRECTOR ENG.	DATE		
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
TACOMA, WA 98401-1837			

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 7

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

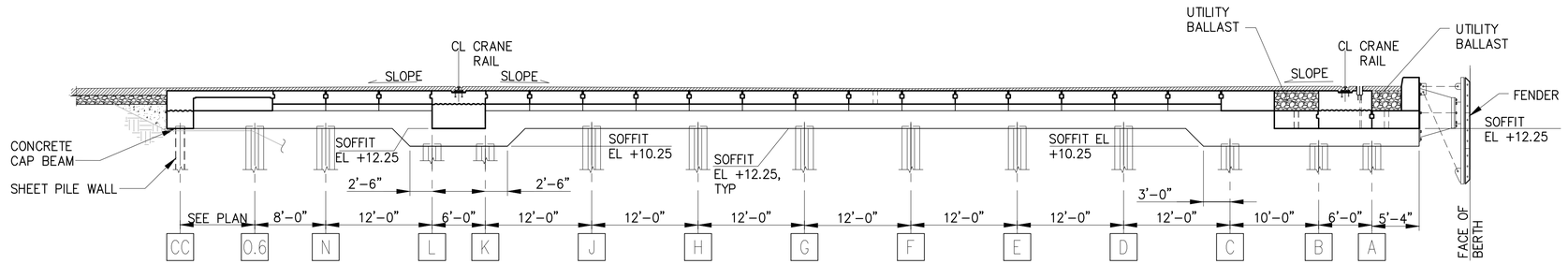
6552
S6.13
SH 202 OF 499

CONT/CONS:	070136		
M. ID:	091251		
PHASE:	CONFORMED		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

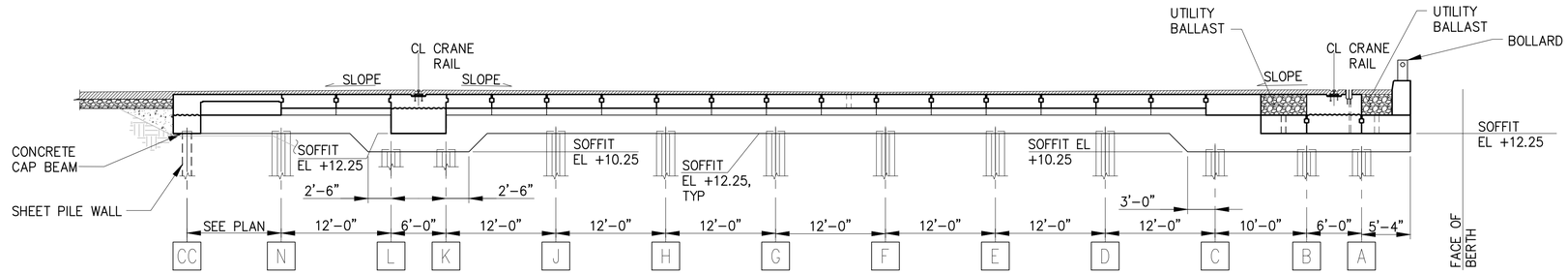
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.13



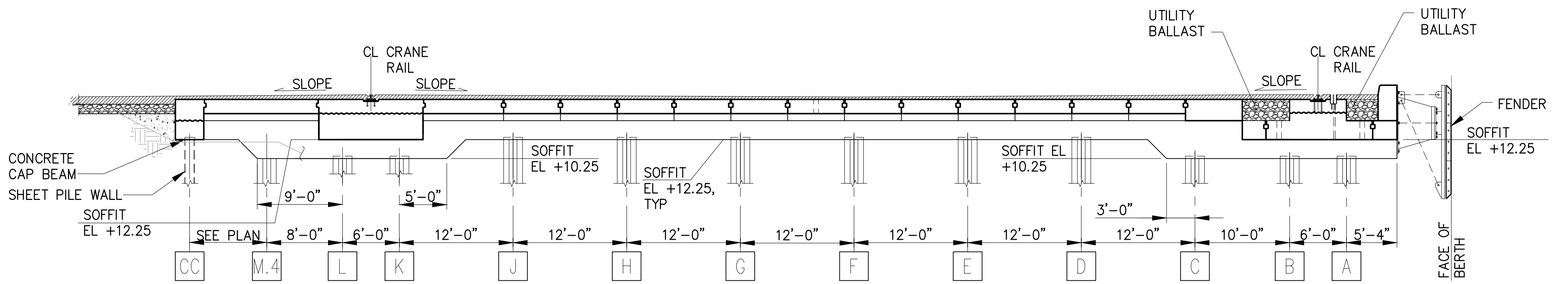
A S5.1 **PIER SECTION - BENT 26**

1/8"=1'-0"



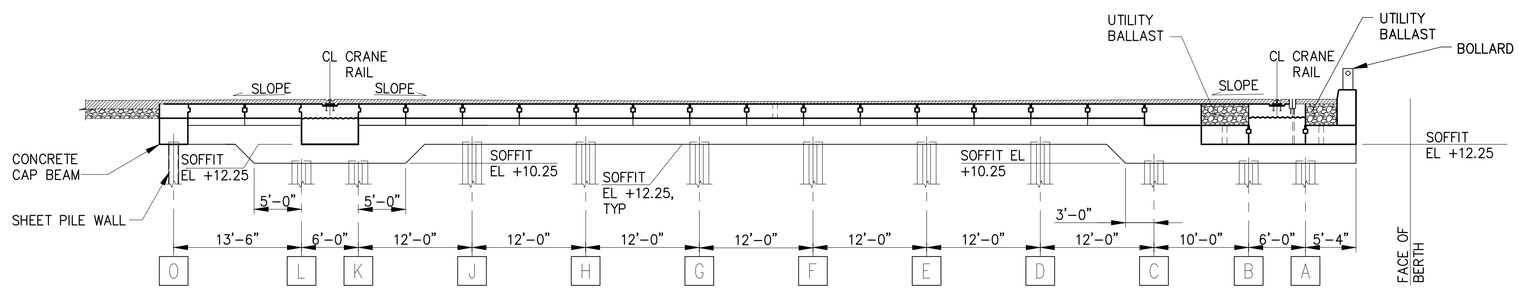
B S5.1 **PIER SECTION - BENT 27**

1/8"=1'-0"



C S5.1 **PIER SECTION - BENT 28**

1/8"=1'-0"



D S5.1 **PIER SECTION - BENT 29, 39, 47, 57, 63, & 67**

1/8"=1'-0"

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

MARK:	REVISION:	BY:	APPR:	DATE:

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

APPROVED:	SEK CHECKED BY DATE
	TAH PROJ. ENGR DATE
DIRECTOR ENG. DATE	PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 8

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

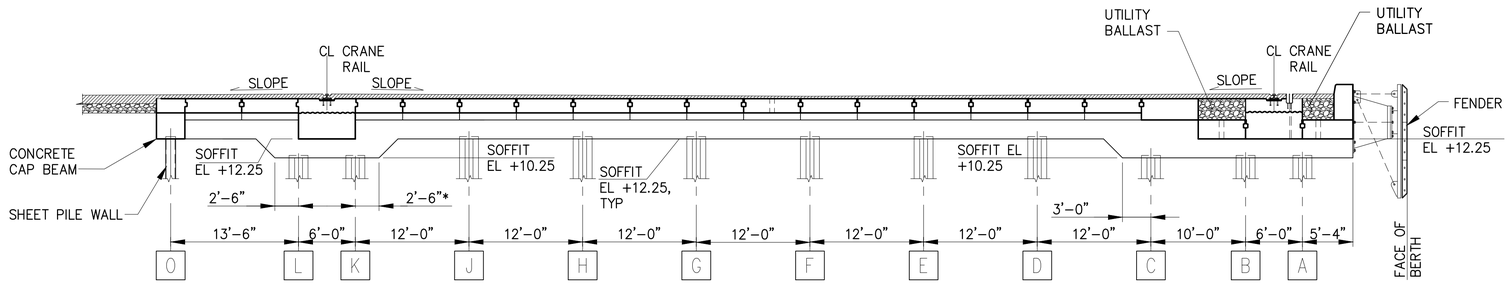
6552
S6.14
SH 203 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.14

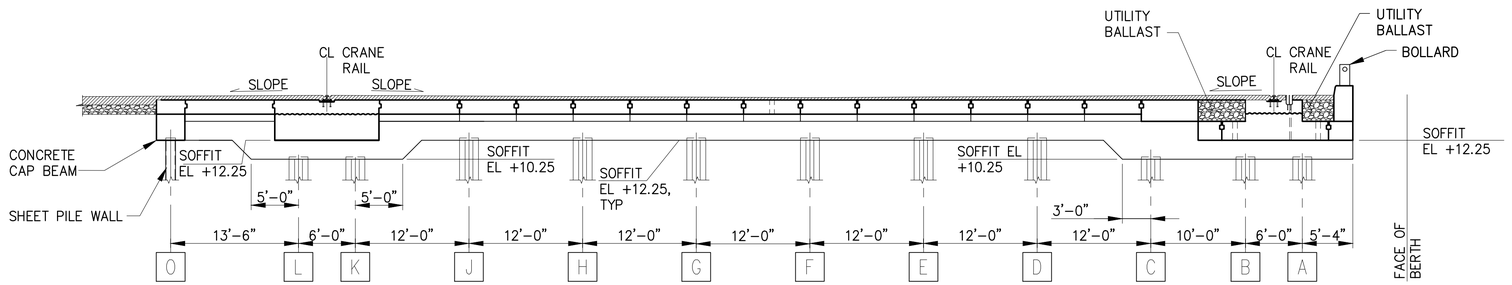
BINDING EDGE



* 3'–3" AT BENT 30

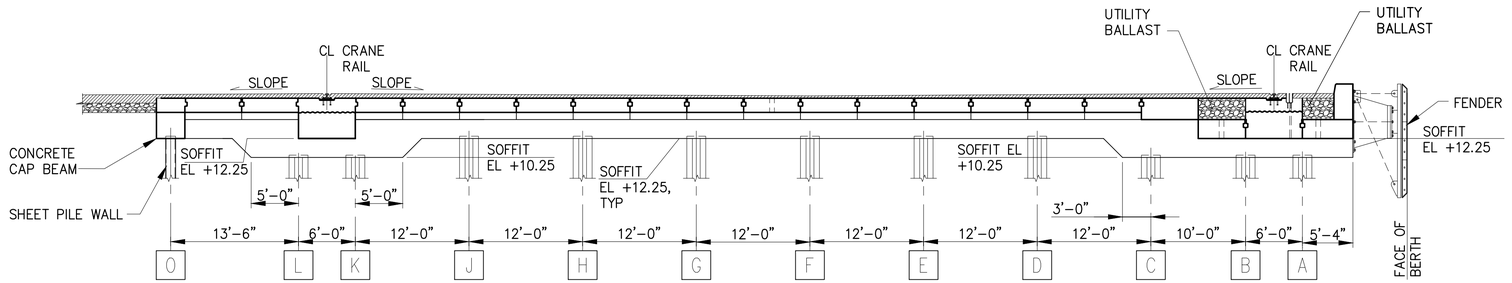
A S5.1 **PIER SECTION - BENT 30, 34, 44, 52, 58, & 64**

1/8"=1'–0"



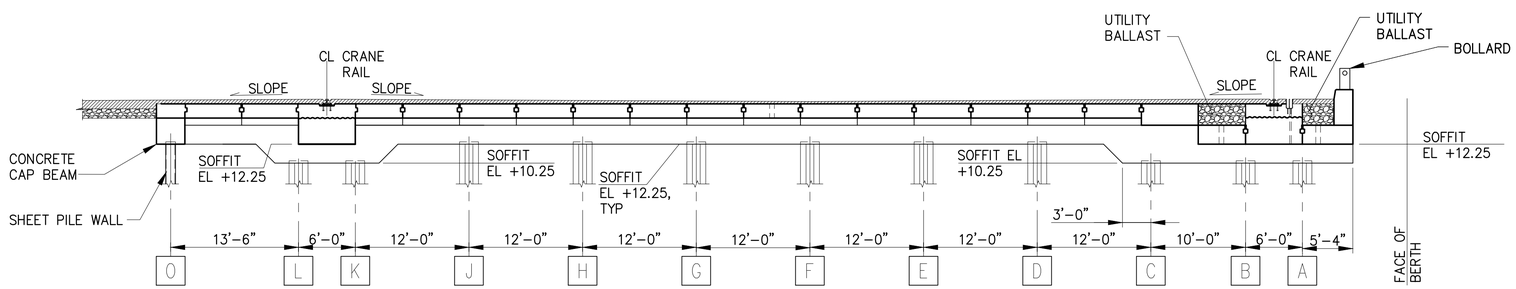
B S5.1 **PIER SECTION - BENT 31, 35, 49, 53, & 59**

1/8"=1'–0"



C S5.1 **PIER SECTION - BENT 32, 36, 50, 54, & 60**

1/8"=1'–0"



D S5.1 **PIER SECTION - BENT 33, 37, 45, 51, 55, 61, & 65**

1/8"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons	Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA		
"TACOMA, WA 98401-1837"			

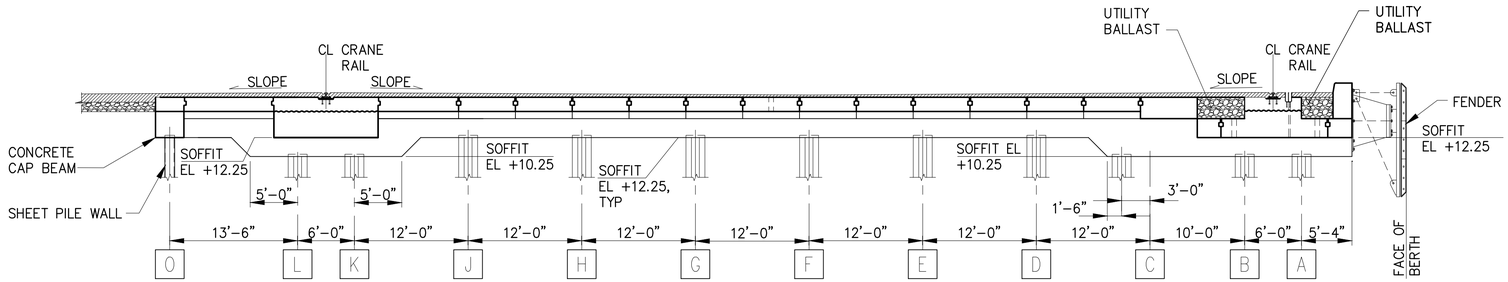
APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 9

6552			
S6.15			
SH 204 OF 499			
CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

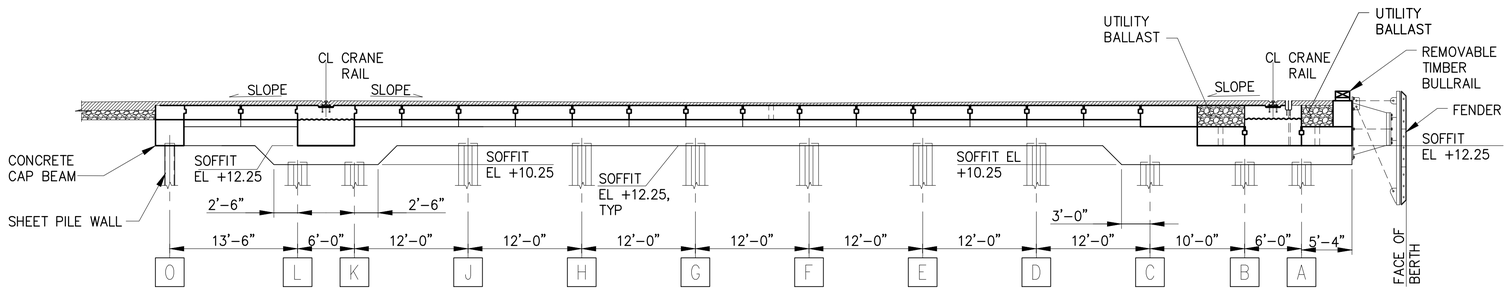
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.15



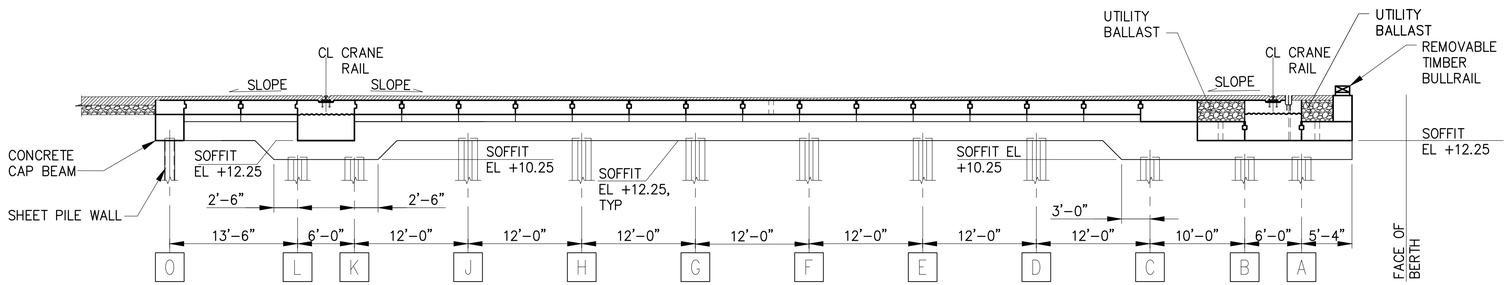
A S5.1 **PIER SECTION - BENT 38, 46, 56, 62, & 66**

1/8"=1'–0"



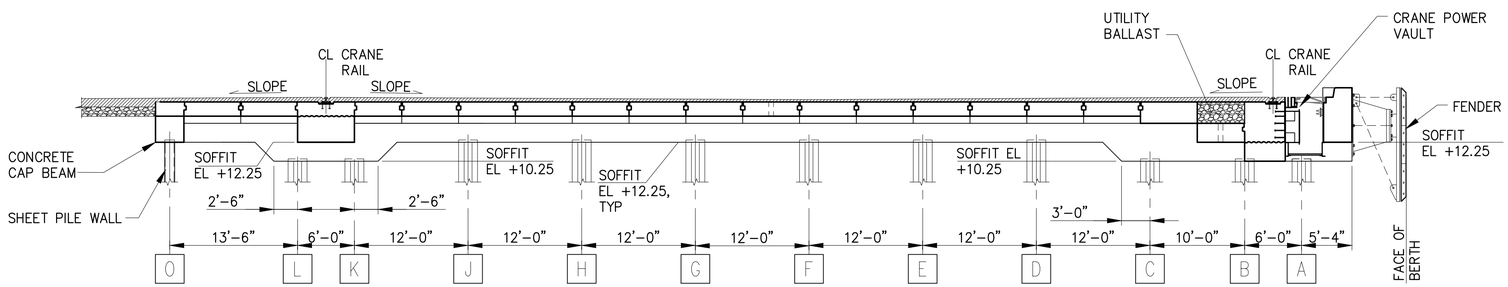
B S5.1 **PIER SECTION - BENT 40 & 42**

1/8"=1'–0"



C S5.1 **PIER SECTION - BENT 41 & 43**

1/8"=1'–0"



D S5.1 **PIER SECTION - BENT 48**

1/8"=1'–0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.16

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
TACOMA, WA 98401-1837			

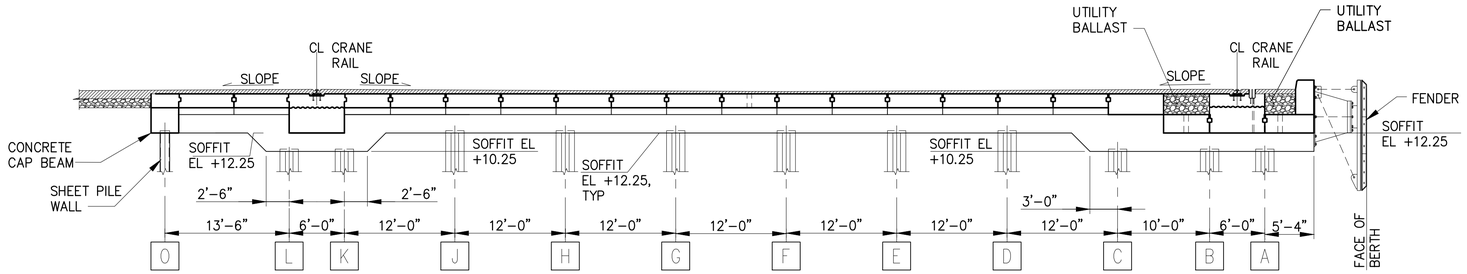
APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PIER SECTIONS - SHEET 10

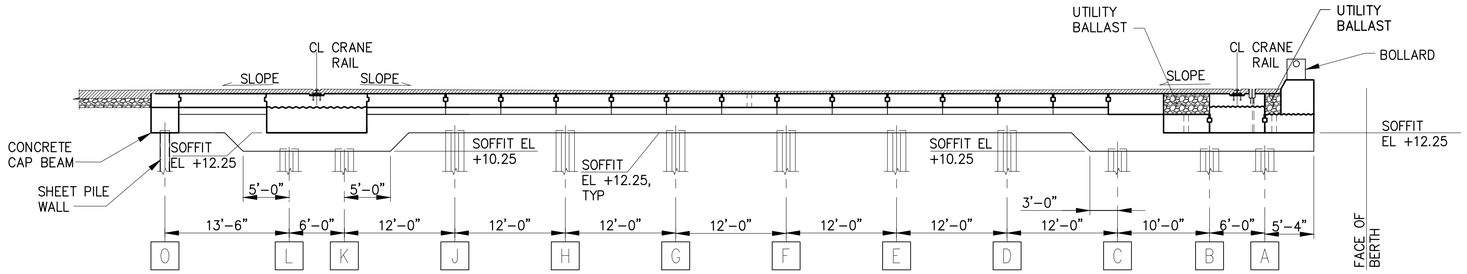
6552
S6.16
SH 205 OF 499

CONT/CONS:	0701136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION:	27		

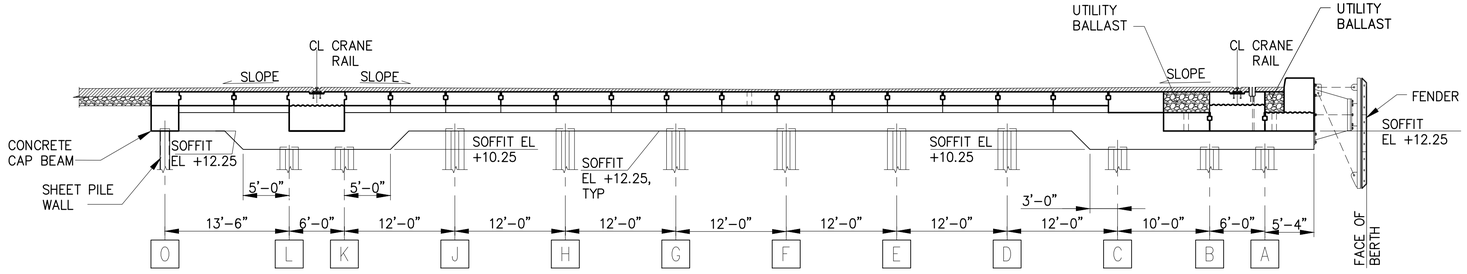
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



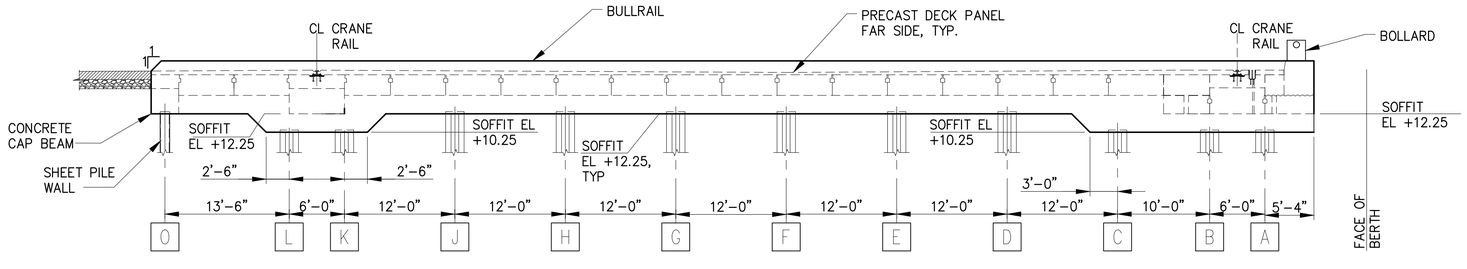
A S5.1 **PIER SECTION - BENT 68**
1/8"=1'–0"



B S5.1 **PIER SECTION - BENT 69**
1/8"=1'–0"



C S5.1 **PIER SECTION - BENT 70**
1/8"=1'–0"



D S5.1 **PIER SECTION - BENT 71**
1/8"=1'–0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.17

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

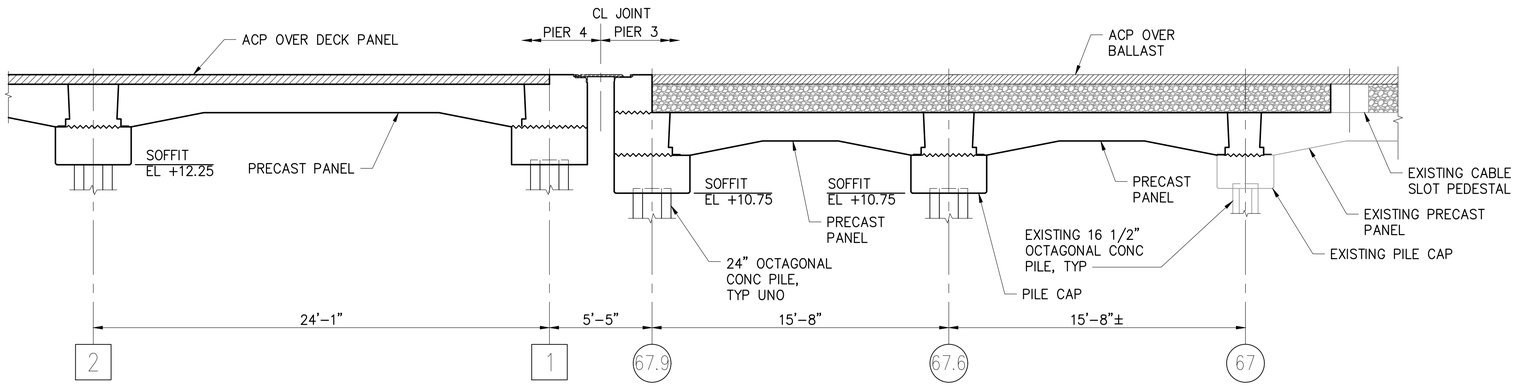
PIER 4 PHASE 2 RECONFIGURATION

PIER SECTIONS - SHEET 11

6552
S6.17
SH 206 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons Jul 20, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

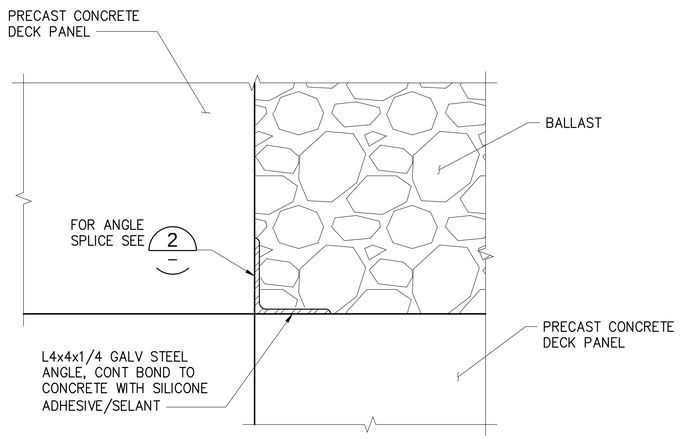
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



A PIER SECTION - PIER 3/4 JOINT

S5.6

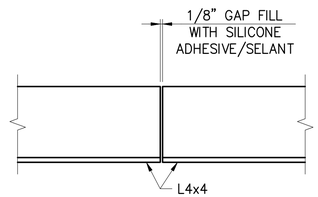
1/4"=1'-0"



1 DETAIL

S6.2 – S6.6

3" = 1'-0"



2 DETAIL

–

3" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY:

ONE SITCUM PLAZA
TACOMA, WA 98401-1837
PORT ADDRESS:

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2 RECONFIGURATION

PIER SECTIONS - SHEET 12

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39 @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552

S6.18

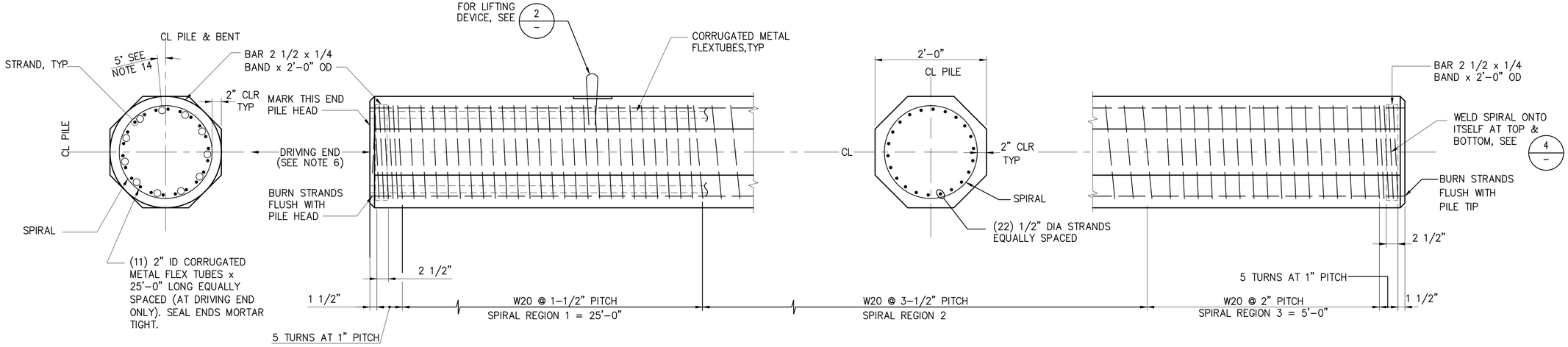
SH 207 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S6.18

BINDING EDGE



1 24" SOLID OCTAGONAL PRECAST PRESTRESSED CONCRETE PILE

S4.1, S4.2, S4.3, S4.4, S4.5 1"=1'-0"

NOTES:

1. MINIMUM CONCRETE STRENGTHS ARE AS FOLLOWS:
   @ RELEASE F'c = 4800 PSI
   @ DRIVING F'c = 8000 PSI
   @ 28 DAYS F'c = 8000 PSI

2. 24" SOLID OCTAGONAL PRECAST PRESTRESSED PILE PROPERTIES:

SECTION AREA	477 IN^2
WEIGHT	524 LBS/FT
SECTION MODULUS	1513 IN^3
DESIGN PRESTRESS FORCE	578 KIPS
DESIGN PRESTRESS IN CONC	1211 PSI

3. PRESTRESSING STEEL SHALL BE UNCOATED 270 KSI – 1/2"ø – 7 WIRE, LOW RELAXATION, STRAND CONFORMING TO ASTM A416

4. FOR PILE TIP AND CUTOFF ELEVATIONS SEE SHEET S7.2

5. PILE ORDER LENGTH SHALL EQUAL PILE CUTOFF ELEVATION MINUS MINIMUM PILE TIP ELEVATION PLUS AN OVERDRIVE ALLOWANCE OF 5 FEET.

6. MARK DRIVING END OF ALL PILES CLEARLY AT PRECAST PLANT.

7. PILES SHALL HAVE MARKS DESIGNATING THE SIZE, LENGTH, AND ROW, GRID LOCATION PAINTED CLEARLY ON THE PILE AT THE PRECAST PLANT.

8. SPIRAL REINFORCING SPLICED IN REGION 1 SHALL BE WELDED IN ACCORDANCE WITH DETAIL 3.

9. SPIRAL REINFORCING MAY BE SPLICED IN REGIONS 2 AND 3 BY (2) OVERLAPPING TURNS OF SPIRAL AND TERMINATING WITH A 135° HOOK EXTENDING COMPLETELY ACROSS THE CORE.

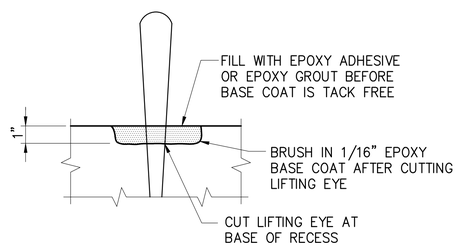
10. SPIRAL REINFORCEMENT SHALL BE ASTM A1064.

11. FLEXTUBES SHALL BE RIGID, GALVANIZED, SPIRAL, FERROUS METAL, MORTAR TIGHT, DUCTS CONFORMING TO ASTM A653. THE MINIMUM THICKNESS SHALL BE 26 GAGE.

12. FOR PILE CUT–OFF DETAILS, SEE SHEET S8.1

13. FOR PILE BUILD–UP DETAIL, SEE SHEET S8.2

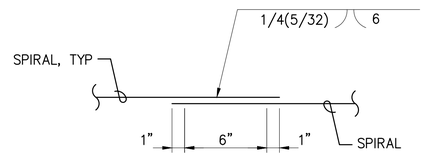
14. ORIENT STRANDS, FLEXTUBES AND PILE AS SHOWN TO ALLOW FOR SUBSEQUENT PLACEMENT OF PILE CAP REINFORCING



NOTE:
LIFTING DEVICE AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR CONSIDERING ALL LOADS IMPARTED TO THE PILE (NORMAL AND PARALLEL TO THE LONGITUDINAL AXIS) BY THE RIGGING BEING USED. ALL MODES OF LIFTING (FABRICATION AND FIELD) SHALL BE CONSIDERED.

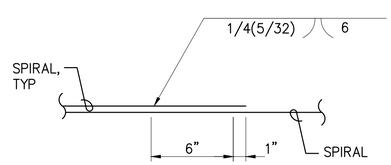
2 LIFTING EYE DETAIL

NTS



3 SPIRAL SPLICE DETAIL

S8.1, S8.2 NTS



4 SPIRAL WELD AT END

NTS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PRECAST CONCRETE PILE - DETAILS

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PROJ. ENGR DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S7.1
SH 208 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S7.1

BINDING EDGE

TABLE 1: PILE SCHEDULE

PILE LOCATION		REQUIRED GEOTECHNICAL CAPACITY (KIPS)	MIN TIP ELEVATION (FEET)	CUT OFF ELEVATION (FEET)	COMMENTS
BENT	GRID				
PILES AT PIER 3 EXTENSION					
67.3–67.9	A–B	1370	–138	10.5	
67.6 & 67.9	C–J.8	1176	–126	11	
67.2–67.9	K.3 & K.8	1176	–126	10.75	
PILES AT PIER 4					
1–15	A & B	1370	–134	10.5	PONY BENT PILES EXCLUDED
1.5–15.5	A & B	1370	–134	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
1–15	C	1176	–126	10.5	
1–15	D	1176	–126	12.5	
1–15	E	1176	–126	12.5	
1, 11–15	F	1176	–126	12.5	
1–15	G	1176	–126	12.5	
1–15	H	1176	–126	12.5	
1–15	J	1176	–126	12.5	
1–9	K & L	1267	–127	10.5	PONY BENT PILES EXCLUDED
1.5–9.5	K & L	1267	–127	9.5	PONY BENT PILES ONLY
3–5	M.4–O.6	1018	–117	12.5	
1–2	N & P	1018	–117	12.5	
1–7	AA	1018	–117	12.5	
10–15	K & L	1314	–120	10.5	PONY BENT PILES EXCLUDED
10.5–15.5	K & L	1314	–120	9.5	PONY BENT PILES ONLY
16–47	A & B	1393	–155	10.5	PONY BENT PILES EXCLUDED
16.5–47.5	A & B	1393	–155	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
16–22	C	1197	–146	10.5	
16–20	D	1197	–146	12.5	
16–19	E	1197	–146	12.5	
16–17	F	1197	–146	12.5	
16	G	1197	–146	12.5	
16–19	K & L	1320	–126	10.5	PONY BENT PILES EXCLUDED
16.5–18.5	K & L	1320	–126	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
23–38	C	1475	–146	10.5	
21–38	D	1475	–145	12.5	
20–38	E	1475	–145	12.5	
18–38	F	1475	–145	12.5	
17–24	G	1475	–145	12.5	
16–23	H	1475	–145	12.5	
16–21	J	1475	–145	12.5	
20–21	K & L	1265	–108	10.5	PONT BENT PILES EXCLUDED
19.5–21.5	K & L	1265	–108	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
22–24	K & L	1335	–98	10.5	PONT BENT PILES EXCLUDED
22.5–24.5	K & L	1335	–98	9.5	PONY BENT PILES ONLY
28	M.4	1136	–92	12.5	
15–16	M.5–T.3	1267	–115	12.5	
17–22	N	1288	–115	12.5	
17–21	P	1288	–115	12.5	
17–20	Q	1288	–115	12.5	
17–19	R–S	1288	–115	12.5	
17–18	S.7–T	1288	–115	12.5	

TABLE 1: PILE SCHEDULE (CONTINUED)

PILE LOCATION		REQUIRED GEOTECHNICAL CAPACITY (KIPS)	MIN TIP ELEVATION (FEET)	CUT OFF ELEVATION (FEET)	COMMENTS
BENT	GRID				
PILES AT PIER 4 (CONTINUED)					
15–19.6	CC	1288	–115	12.5	
23–27	N	1136	–92	12.5	
26	O.6	1136	–92	12.5	
22–25	P	1136	–92	12.5	
24	P.7	1136	–92	12.5	
21–23	Q	1136	–92	12.5	
22	Q.7	1136	–92	12.5	
20–21	R	1136	–92	12.5	
20	R.7	1136	–92	12.5	
20.3–20.6	CC	1136	–92	12.5	
25–27	K & L	1327	–91	10.5	PONY BENT PILES EXCLUDED
25.5–26.5	K & L	1327	–91	9.5	PONY BENT PILES ONLY
25–38	G	1288	–115	12.5	
24–38	H	1288	–115	12.5	
22–38	J	1288	–115	12.5	
28–38	K & L	1335	–98	10.5	PONY BENT PILES EXCLUDED
27.5–38.5	K & L	1335	–98	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
39–44	C	1425	–150	10.5	HEAVY LOAD ZONE
39–44	D–F	1568	–147	12.5	HEAVY LOAD ZONE
39–44	G–J	1504	–118	12.5	HEAVY LOAD ZONE
39–44	K & L	1368	–93	10.5	PONY BENT PILES EXCLUDED
39.5–43.5	K & L	1368	–93	9.5	PONY BENT PILES ONLY
45–47	C	1197	–146	10.5	
45–47	D–F	1475	–145	12.5	
45–47	G–J	1288	–115	12.5	
45–47	K & L	1335	–98	10.5	PONY BENT PILES EXCLUDED
44.5–47.5	K & L	1335	–98	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
48–71	A & B	1380	–148	10.5	PONY BENT PILES EXCLUDED
48.5–70.5	A & B	1380	–148	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
48–71	C	1016	–130	10.5	
48–71	D–F	1116	–115	12.5	
48–71	G & H	1116	–102	12.5	
48–71	J	1071	–87	12.5	
48–71	K & L	1283	–90	10.5	PONY BENT PILES EXCLUDED
48.5–70.5	K & L	1283	–90	9.5	PONY BENT PILES ONLY, INCLUDING OFFSET PILES
PILES ALONG EXISTING PIER 4 JOINT					
1–7	BB	1018	–117	10.75	
7.4–14.9	M	1018	–117	10.75	
15–21	DD	1288	–115	12.75	
BATTER PILES					
1.9–10.1	E.7 & F.3	1720 [863]	–150	6.2	3:12 BATTER
MOORING DOLPHIN		400 [200]	–50	12.5	3:12 BATTER

NOTES:
1. ALL ELEVATIONS RELATIVE TO MLLW DATUM.
2. REQUIRED GEOTECHNICAL CAPACITY IS THE MINIMUM REQUIRED ULTIMATE PILE CAPACITY AND IS EQUAL TO THE ULTIMATE DEMAND ON PILE AND INCLUDES A FACTOR OF SAFETY OF 2.0 FOR COMPRESSION, AND 3.0 FOR TENSION.
3. [ ] INDICATES TENSION

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK: | REVISION: | BY: | APPR: | DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

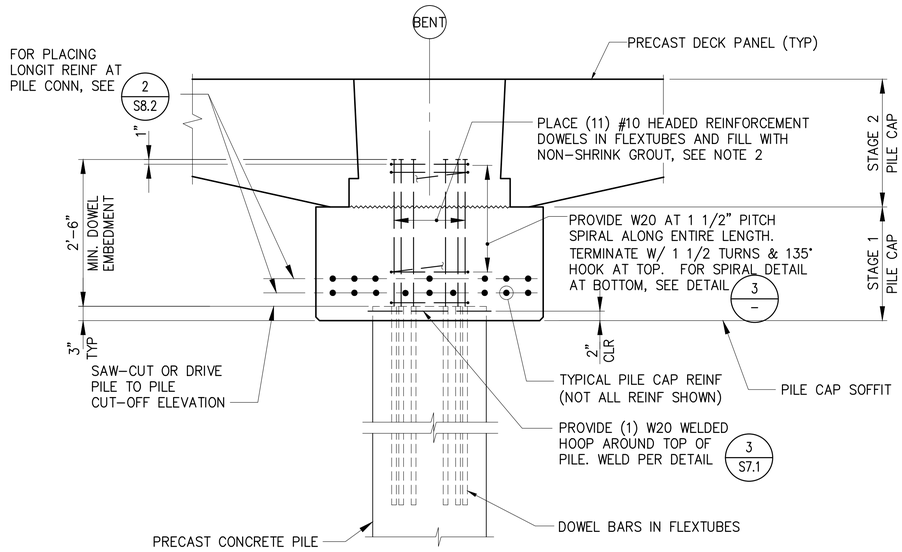
PIER 4 PHASE 2
RECONFIGURATION
PRECAST CONCRETE PILE - SCHEDULE

6552
S7.2
SH 209 OF 499

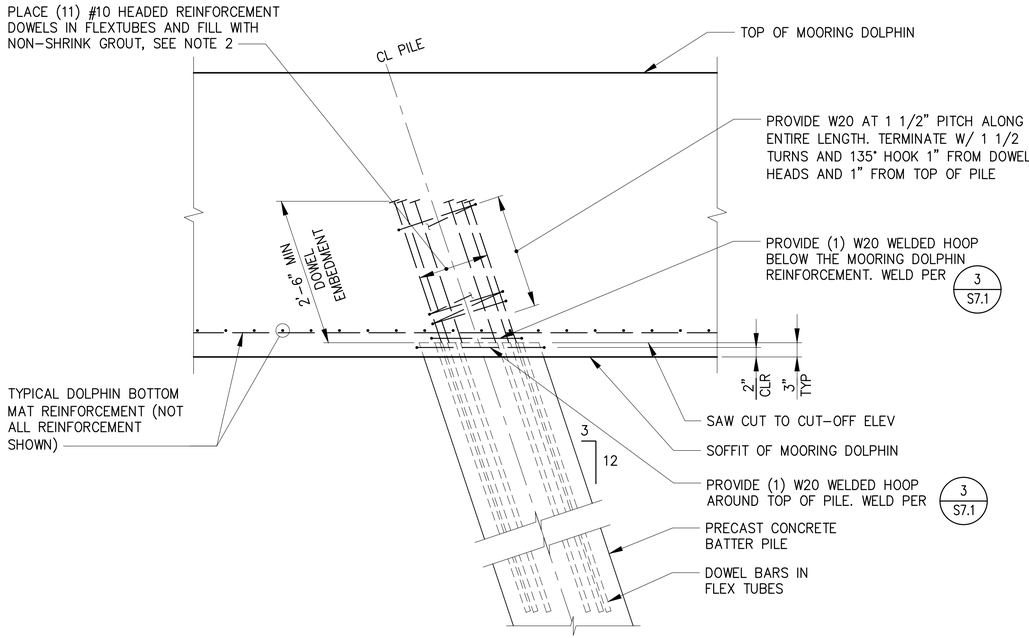
CONT/CONS: 070136 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 27
M. ID: 091251 | DAT–HRZ: WA83-SF | VERT: MLLW 19.39' @ Tide 22 1933
PHASE: CONFORMED | PARCEL:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

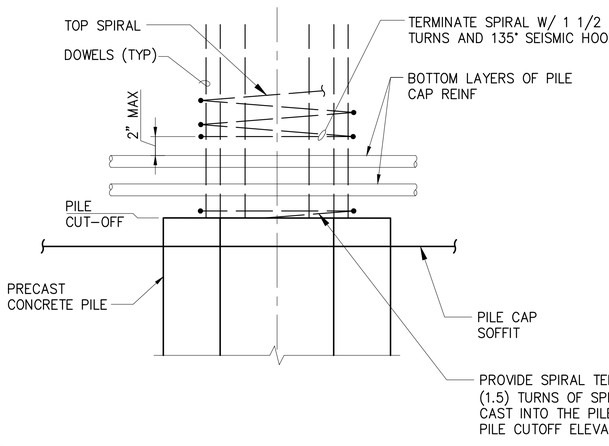
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S7.2



1 DETAIL -TYPICAL PILE CUT-OFF
S7.1 — 3/4"=1'-0"



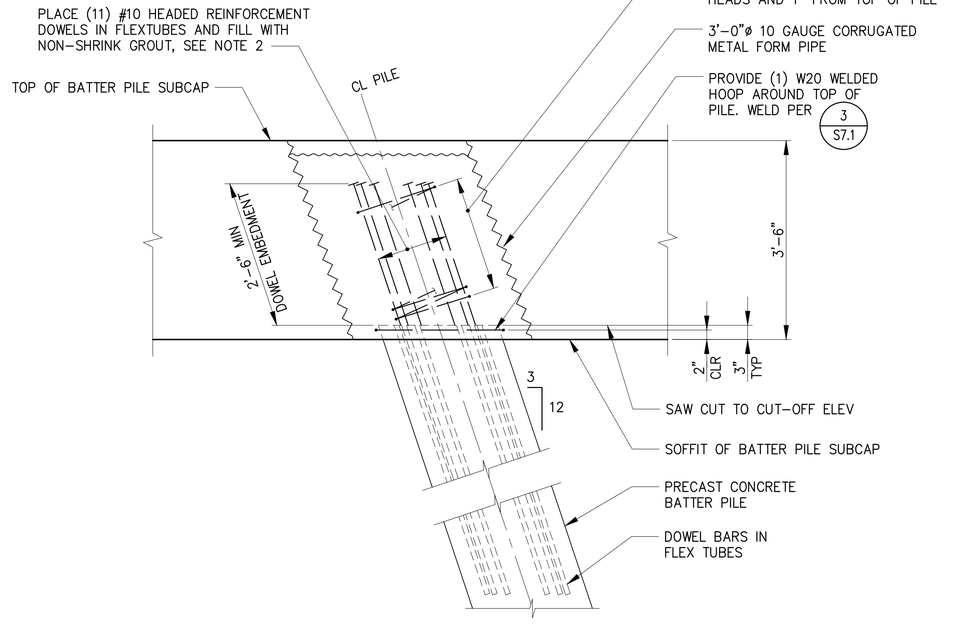
2 DETAIL PILE CUT-OFF AT DOLPHIN
S7.1, S42.1 — 3/4"=1'-0"



3 SPIRAL DETAIL
S8.2 — 1 1/2"=1'-0"

NOTES:

1. THE CONTRACTOR SHALL NOT CUT-OFF MORE THAN 15' OF PILE WITHOUT ENGINEER'S APPROVAL.
2. DOWEL BARS SHALL BE CENTERED IN FLEX TUBES UTILIZING A CENTERING DEVICE WHICH ALLOWS GROUT TO FLOW EASILY AROUND THE DEVICE. FLEX TUBES SHALL BE FILLED TO BOTTOM OF TUBES WITH 10,000 PSI NON-SHRINK GROUT UTILIZING GROUT TUBES AS NECESSARY. DOWELS SHALL BE EMBEDDED 10'-0" MIN BELOW PILE CUT OFF ELEV. DOWELS SHALL BE PLACED INDIVIDUALLY AND IMMEDIATELY AFTER GROUTING. SEE SPECIFICATIONS FOR GROUT REQUIREMENTS.



4 DETAIL - PILE CUT-OFF AT BATTER PILE SUBCAPS
S7.1, S11.7 — 3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S8.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	5/12/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
DIRECTOR ENG.		DATE	

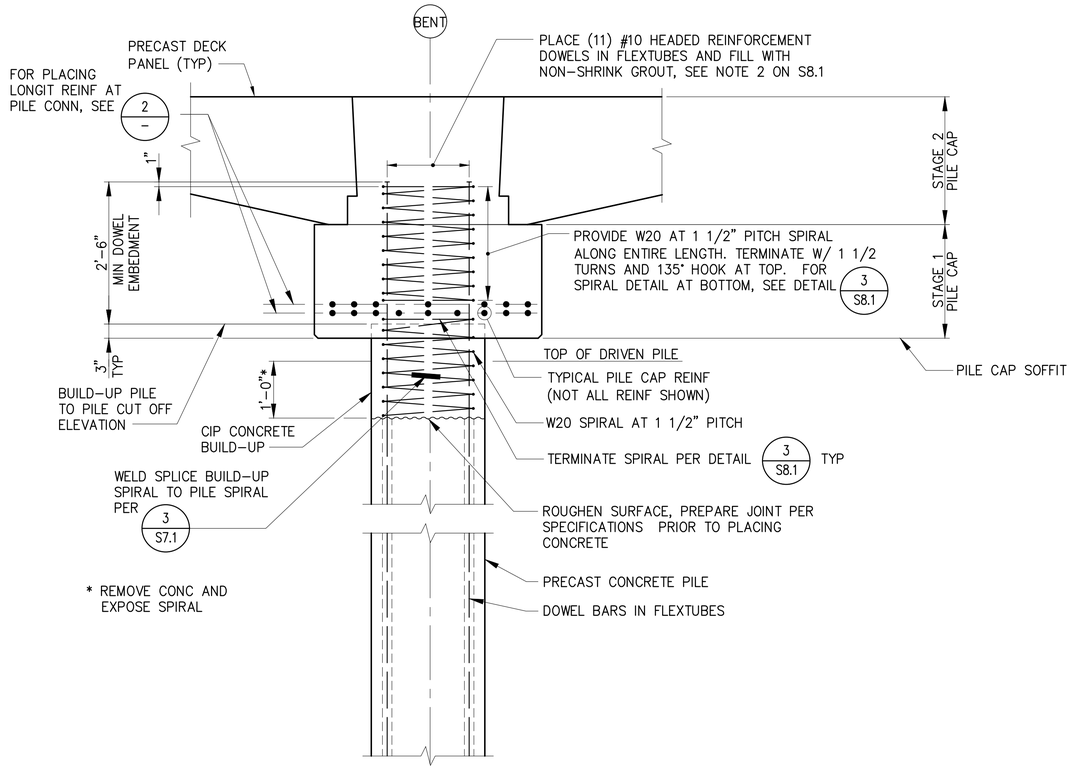
PIER 4 PHASE 2
RECONFIGURATION
PILE CONNECTION DETAILS

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

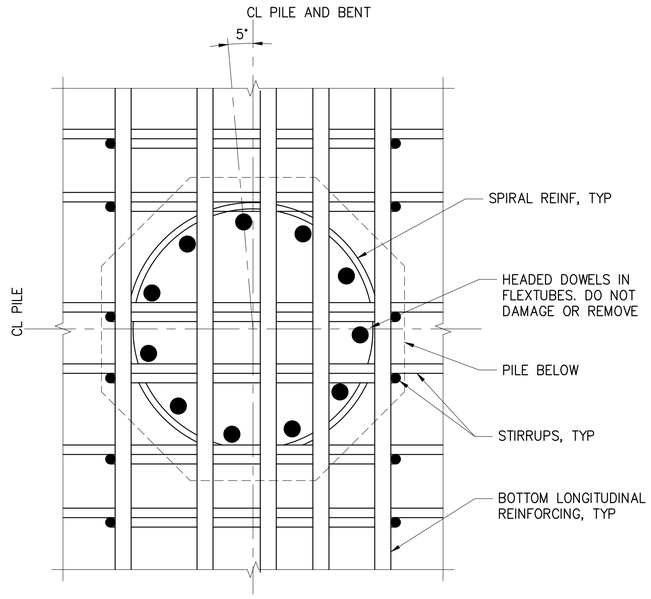
6552
S8.1
SH 210 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 S7.1 DETAIL - PILE BUILD-UP (PILE TOP BELOW CUT-OFF)

3/4"=1'–0"



2 S8.1 DETAIL - PILE CAP REINFORCING AT PILE CONNECTION

2"=1'–0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S8.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tiemons Jul 20, 2018
PRINTED BY: tiemons Jul 20, 2018

ONE SITCUM PLAZA
TACOMA, WA 98401-1837
PORT ADDRESS: ONE SITCUM PLAZA

APPROVED:

DIRECTOR ENG. DATE

AS NOTED
DRAWING SCALE: AS NOTED

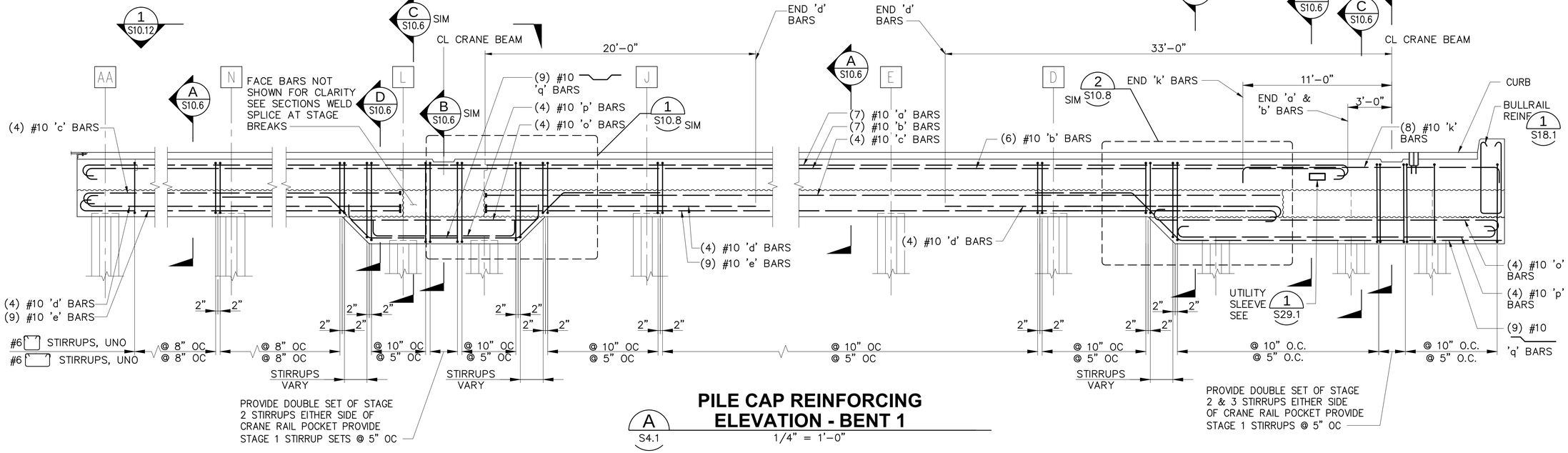
PIER 4 PHASE 2
RECONFIGURATION
PILE CONNECTION DETAILS

6552
S8.2
SH 211 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

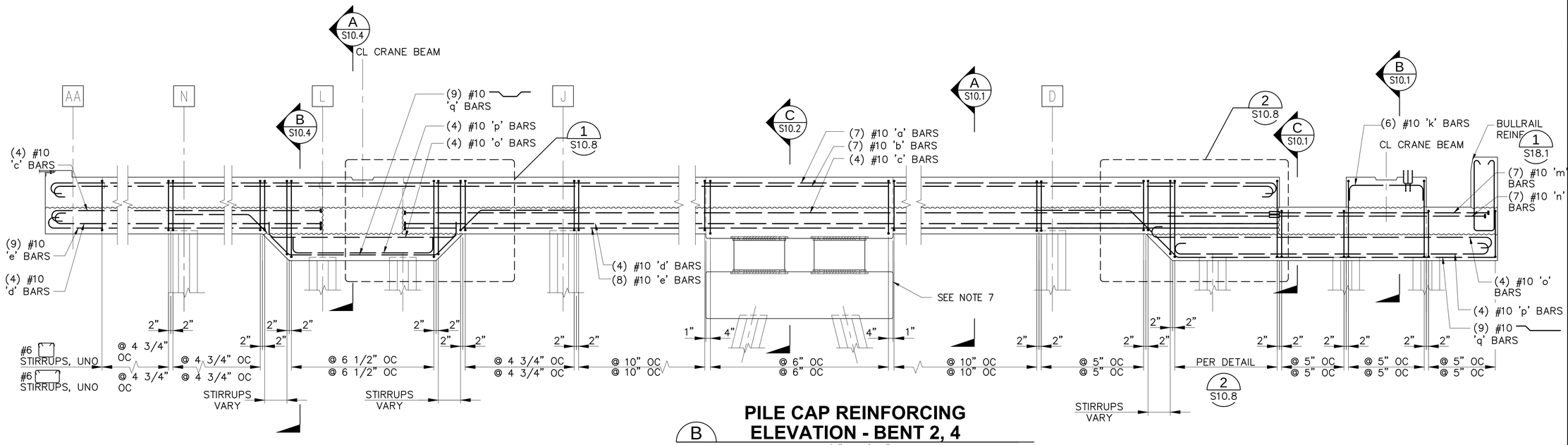
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



PILE CAP REINFORCING ELEVATION - BENT 1

A S4.1 — 1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENT 2, 4

B S4.1 — 1/4" = 1'-0"

NOTES:

1. PROVIDE LAP SPLICES AS REQUIRED.
2. CENTER LAPS OF 'd', 'e', 'p' AND 'q' BARS OVER PILES.
3. CENTER LAPS OF 'a', 'b', 'c', 'm', 'n' AND 'o' BARS MIDWAY BETWEEN PILES
4. DO NOT SPLICE MORE THAN 50% OF REINFORCEMENT IN ONE LOCATION. DO NOT SPLICE MORE THAN 50% OF REINFORCEMENT IN ANY ONE LAYER AT ONE LOCATION. IF 50% OR LESS OF THE REINFORCEMENT IN A GIVEN LAYER IS SPLICED, CLASS A SPLICE LENGTHS MAY BE USED AT THAT LOCATION.
5. FOR GEOMETRY NOT SHOWN HERE SEE SHEETS S6.1 TO S6.18.
6. ALPHANUMERIC LAYER IDENTIFIERS ('a' BARS) CORRESPOND WITH LAYERS SHOWN ON PILE CAP SECTIONS ON S10.1–S10.15.
7. BATTER PILE SUBCAP REINFORCING, PER SHEET S11.7–S11.9
8. ADJUST STIRRUP SPACING OVER PILES FOR FIT UP, SEE DETAIL 2 S8.2

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DRAWN BY DATE

APPROVED:

DIRECTOR ENG. DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

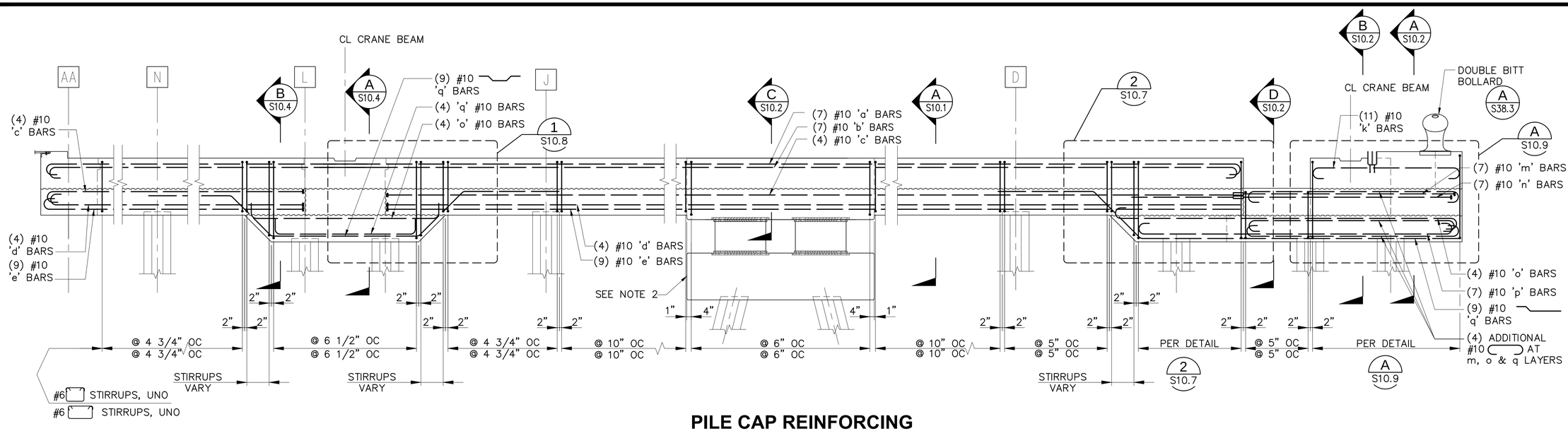
PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 1

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S9.1
SH 212 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.1



PILE CAP REINFORCING ELEVATION - BENT 3

A S4.1

1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1
2. BATTER PILE SUBCAP REINFORCING PER S11.7–S11.9.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

	DIRECTOR	ENG.	DATE
SEK			
CHECKED BY			
TAH			
PROJ. ENGR			
DATE			

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
"TACOMA, WA 98401-1837"

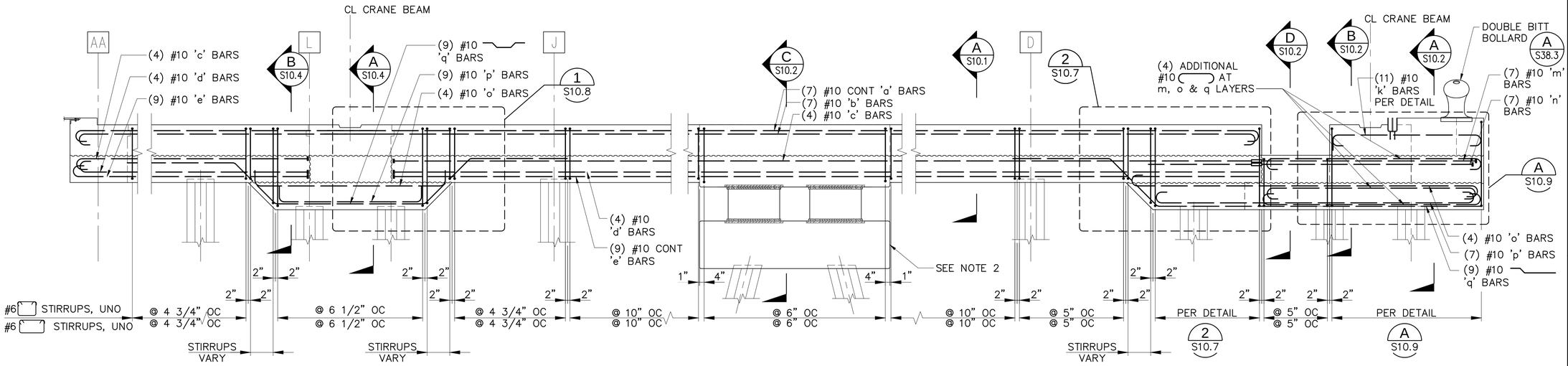
PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S9.2
SH 213 OF 499

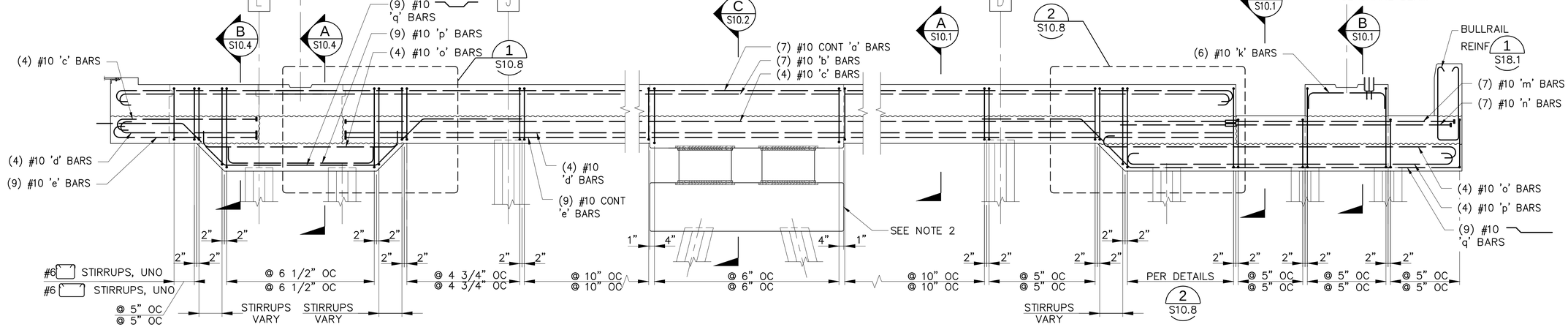
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



PILE CAP REINFORCING ELEVATION - BENT 5

A S4.1 — 1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENT 6

B S4.1 — 1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1
2. BATTER PILE SUBCAP REINFORCING PER S11.7–S11.9.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK — CHECKED BY — DATE
TAH — PROJ. ENGR — DATE

APPROVED:
DIRECTOR ENG. — DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 3

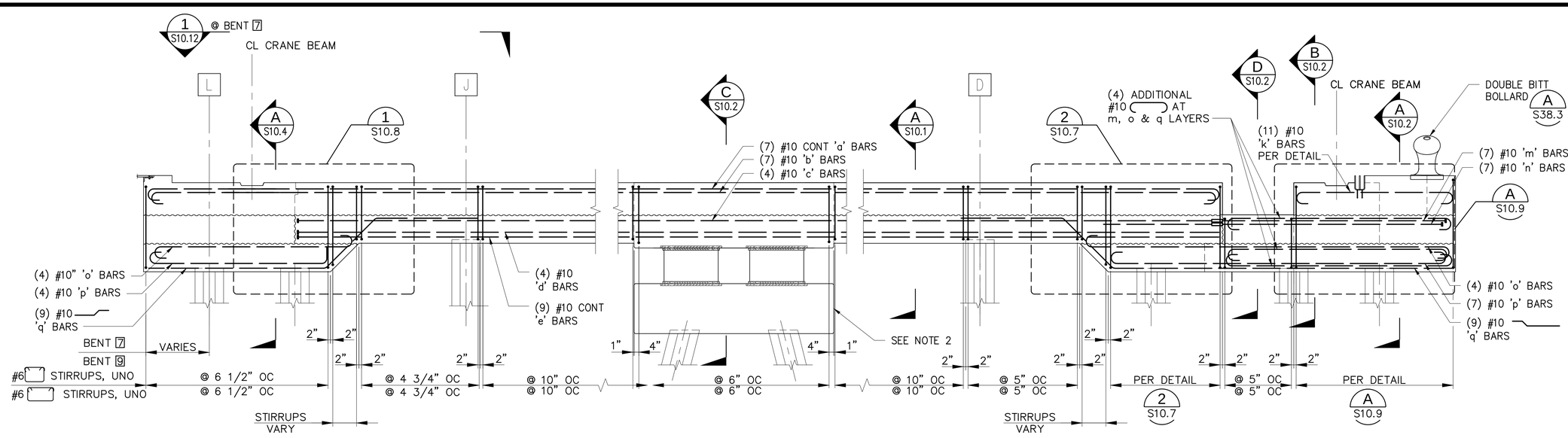
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

6552
S9.3
SH 214 OF 499

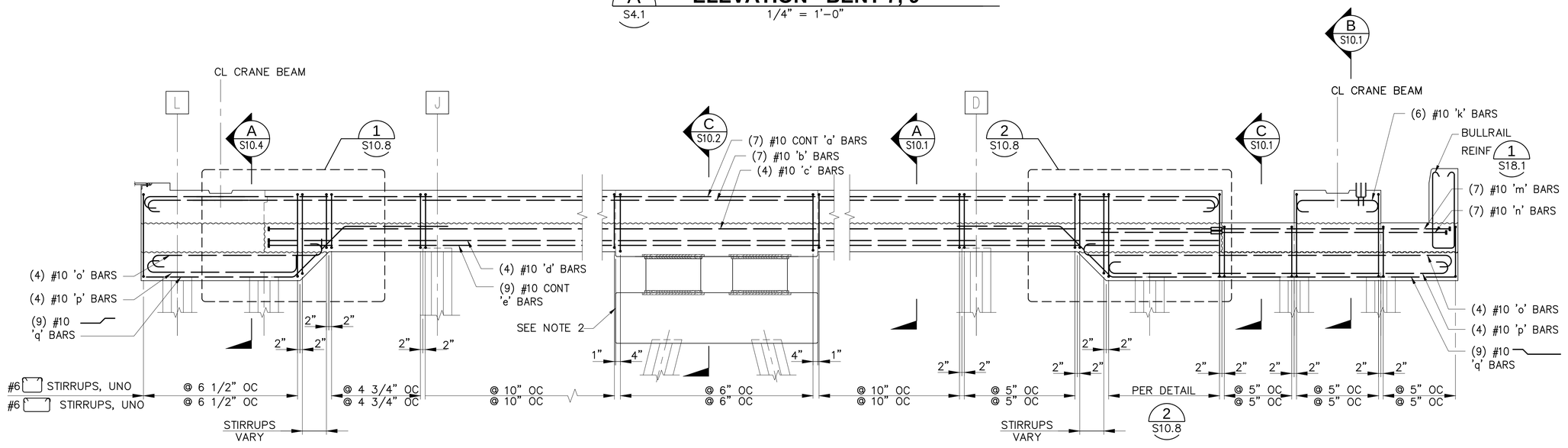
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.3



PILE CAP REINFORCING ELEVATION - BENT 7, 9

A S4.1 — 1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENT 8 , 10

B S4.1 — 1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1
2 BATTER PILE SUBCAP REINFORCING PER S11.7–S11.9.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:	DIRECTOR ENG.	DATE
	PRINTED BY:	tlemons Jul 20, 2018
	PORT ADDRESS:	ONE SITCUM PLAZA
		TACOMA, WA 98401-1837

SEK	TAH
CHECKED BY	PROJ. ENGR
	DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 4

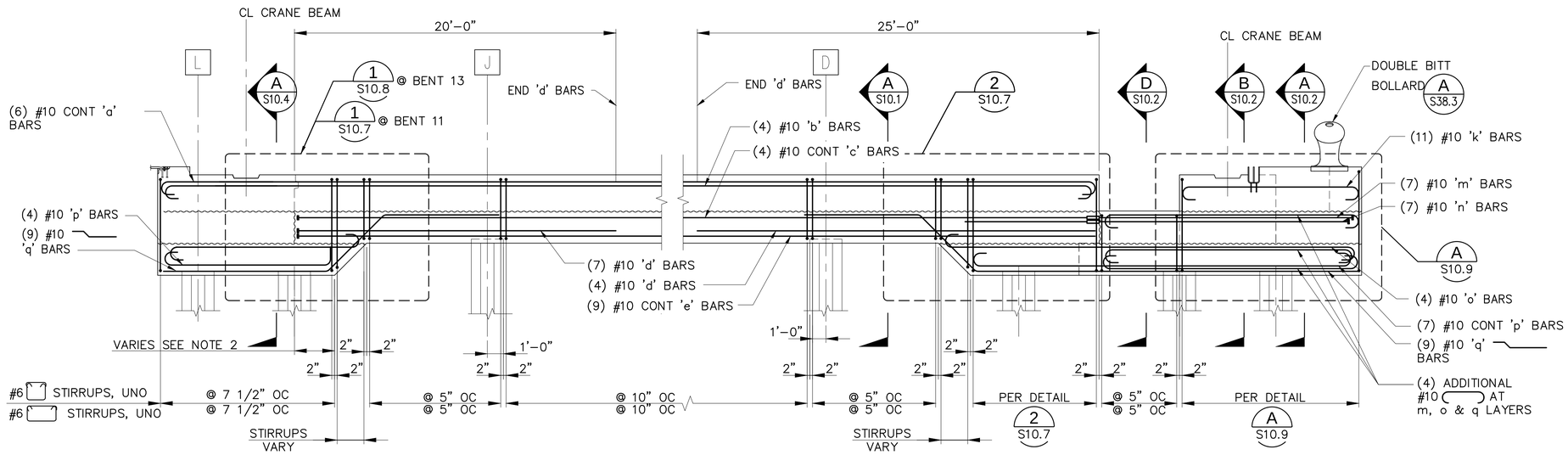
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION: 27			

6552
S9.4
SH 215 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

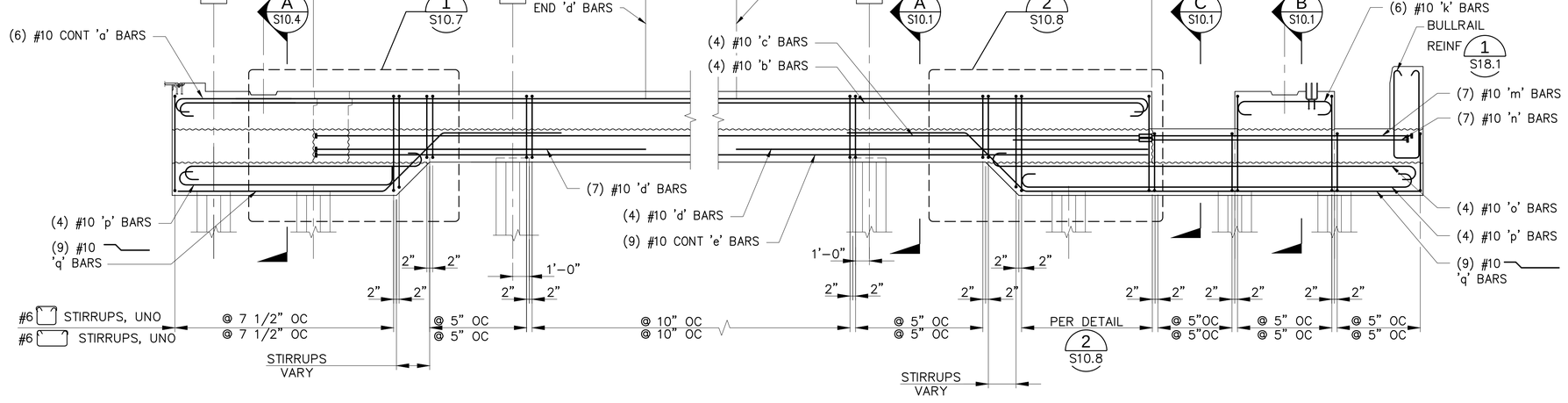
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.4



PILE CAP REINFORCING ELEVATION - BENTS 11, 13 (SHOWN)

A S4.1 — 1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENTS 12, 14

B S4.1 — 1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1
2. 5'-0" AT BENT 11, 2'-6" AT BENT 13

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	DIRECTOR ENG.	DATE	
PROJ. ENGR	Jul 20, 2018		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 5

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

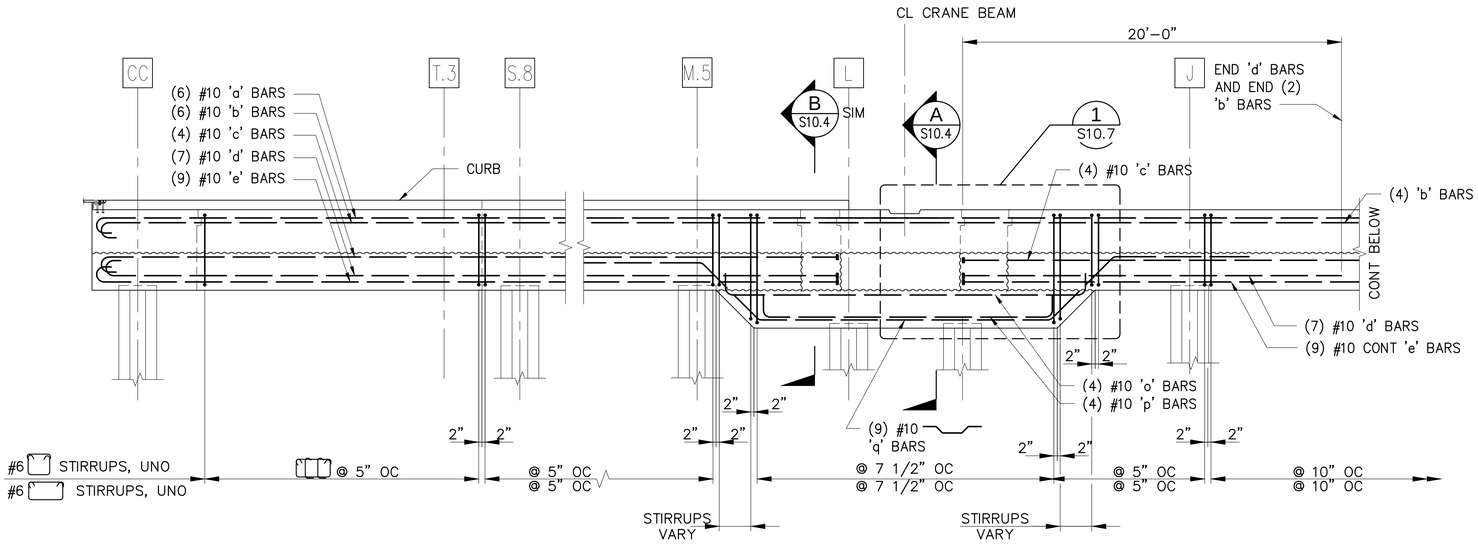
PRINTED BY: tlemons
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

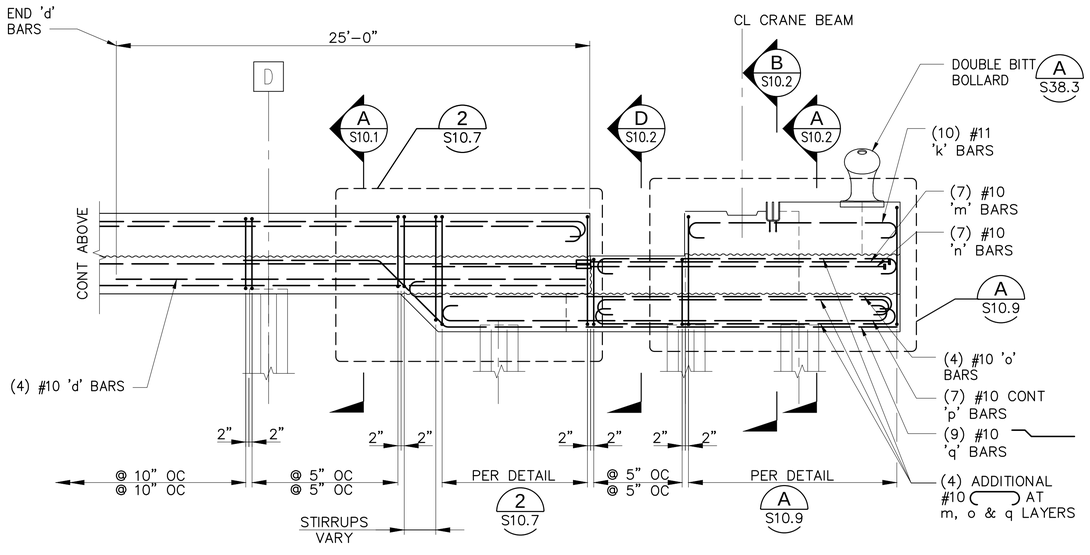
6552
S9.5
SH 216 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.5





PILE CAP REINFORCING ELEVATION - BENT 15

A S4.1

1/4" = 1'–0"

NOTES:

1. REFER TO NOTES ON S9.1

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.6

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 6

APPROVED:

SEK	CHECKED BY	DATE	
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

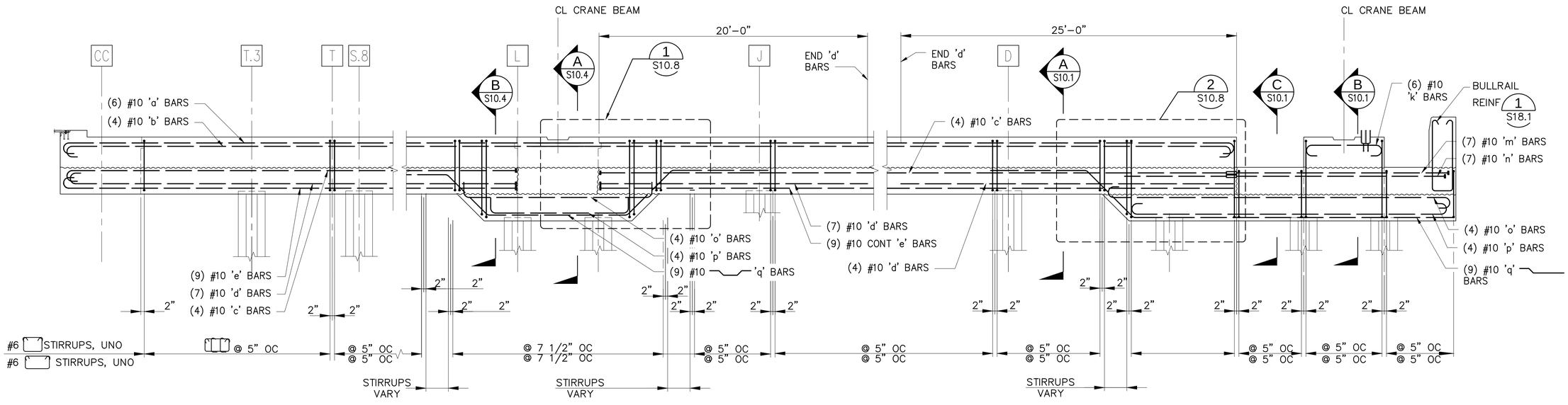
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S9.6
SH 217 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



PILE CAP REINFORCING ELEVATION - BENT 16

A S4.1

1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 • Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	DATE
CHECKED BY	TAH	
PROJ. ENGR		DATE
PRINTED BY:	tlemons Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

DIRECTOR ENG. DATE

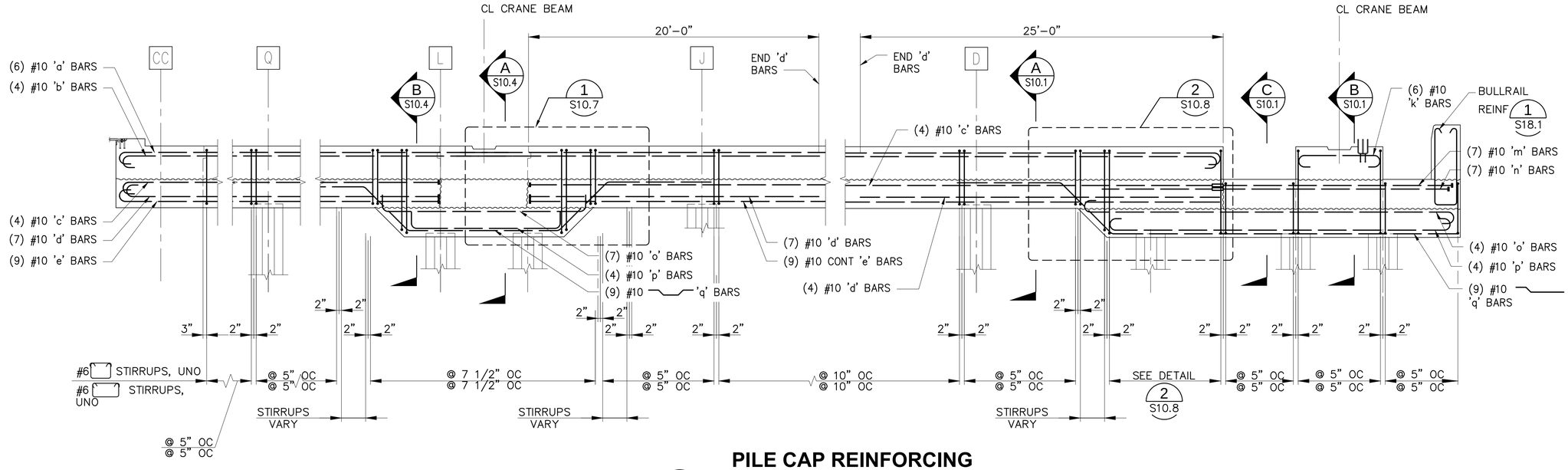
PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 7

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S9.7
SH 218 OF 499

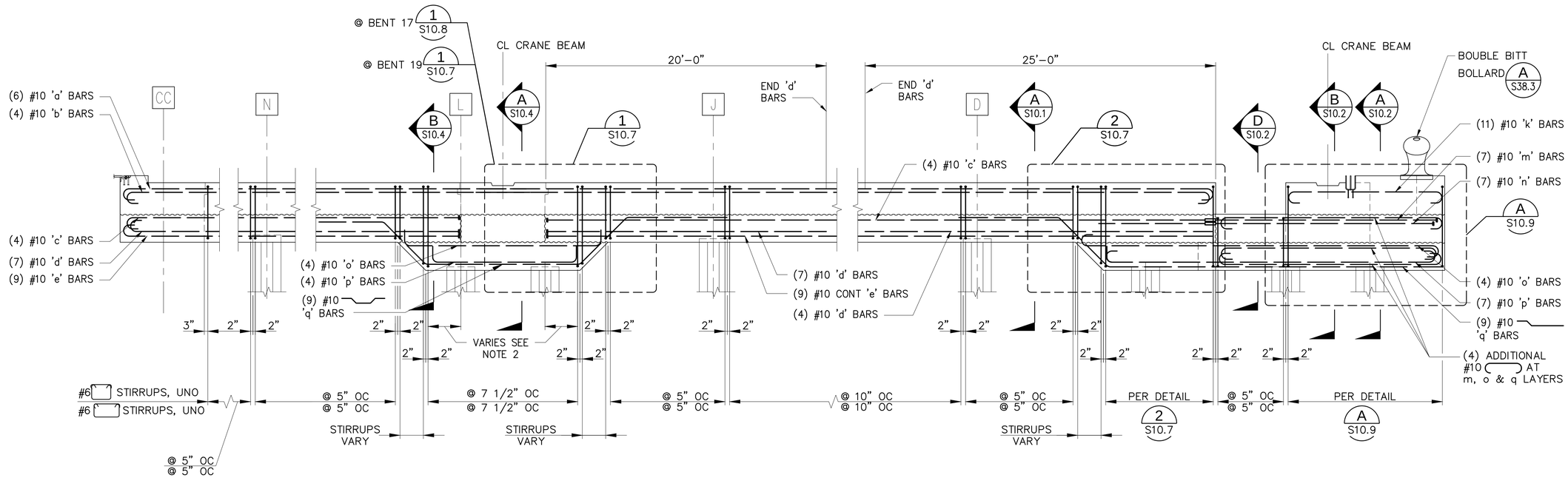
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.7



PILE CAP REINFORCING ELEVATION - BENT 18

A S4.1 — 1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENT 17, 19

B S4.1 — 1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1
2. 5'-0" AT BENTS 19 , 2'-6" AT BENTS 17

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S9.8

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff — 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE

TAH PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PIER 4 PHASE 2 RECONFIGURATION

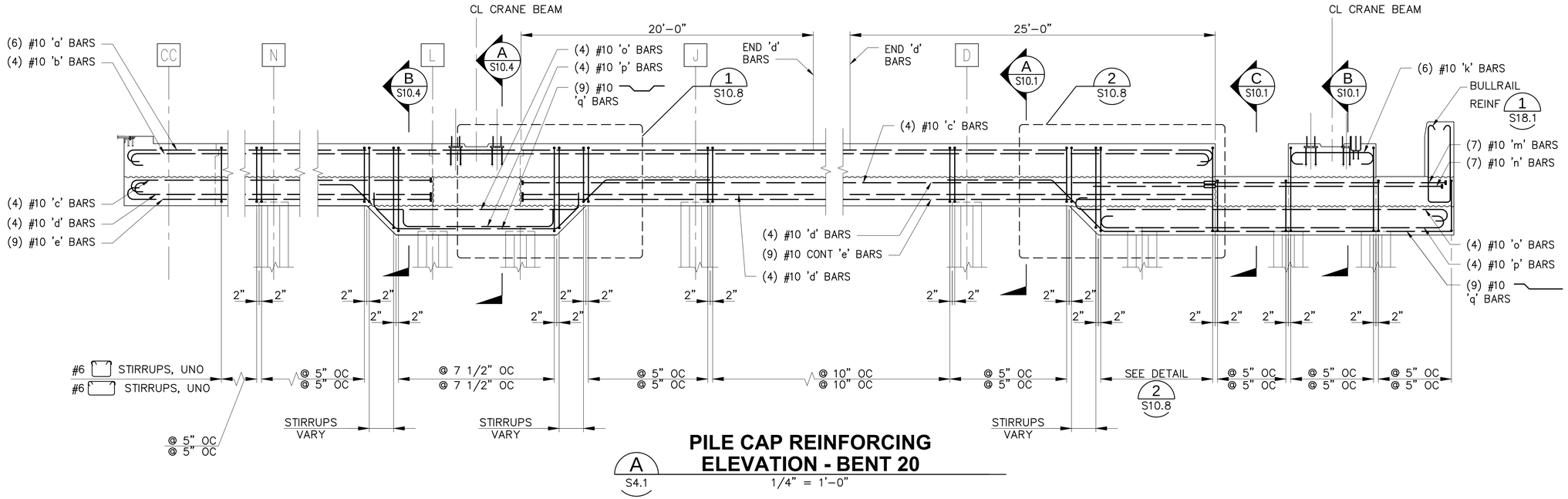
PILE CAP REINFORCING ELEVATIONS - SHEET 8

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE:	CONFORMED	PARCEL:		

6552

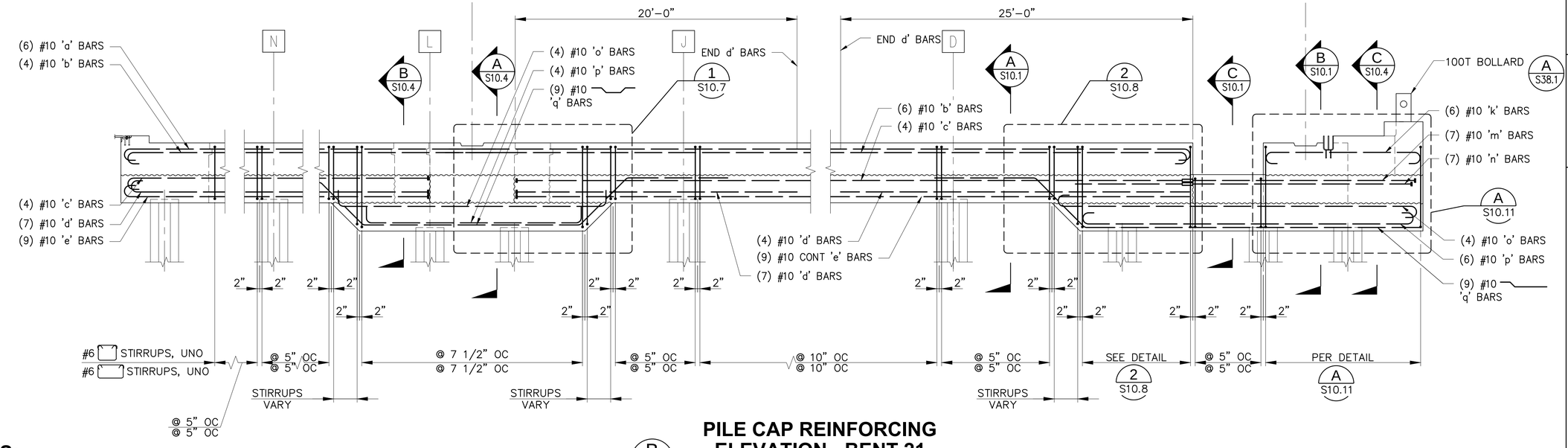
S9.8

SH 219 OF 499



PILE CAP REINFORCING ELEVATION - BENT 20

A S4.1 — 1/4" = 1'–0"



PILE CAP REINFORCING ELEVATION - BENT 21

B S4.1 — 1/4" = 1'–0"

NOTES:

1. REFER TO NOTES ON S9.1

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE

CHECKED BY	SEK
DRAWN BY	TAH
PROJ. ENGR	
PRINTED BY:	tlemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

PILE CAP REINFORCING ELEVATIONS - SHEET 9

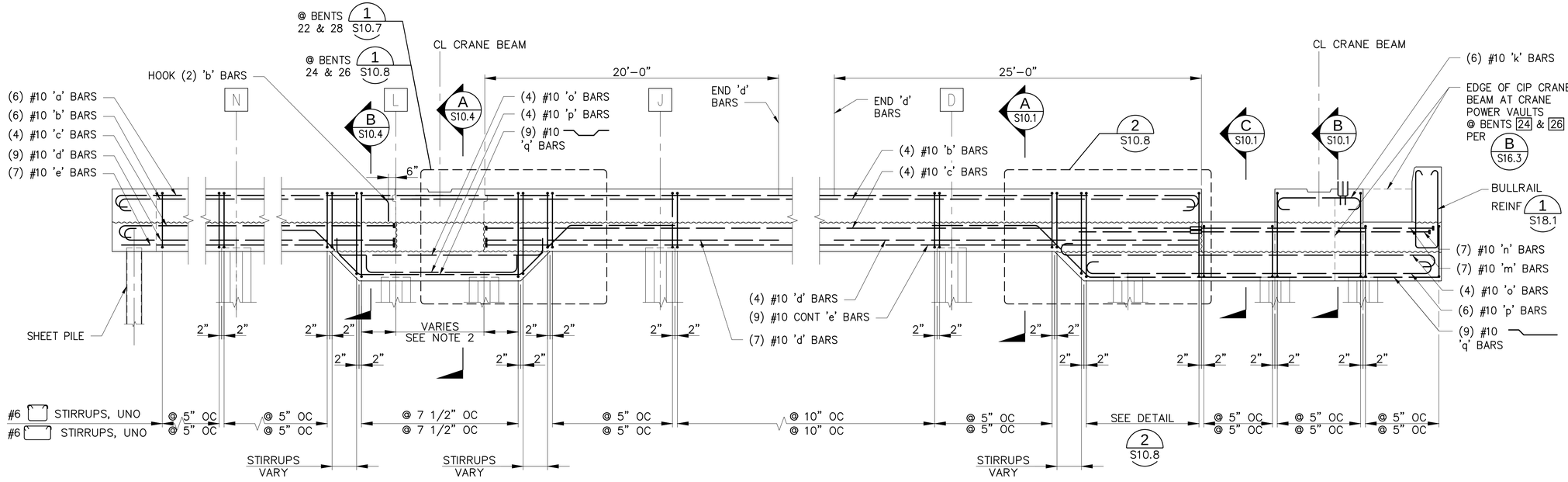
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S9.9
SH 220 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

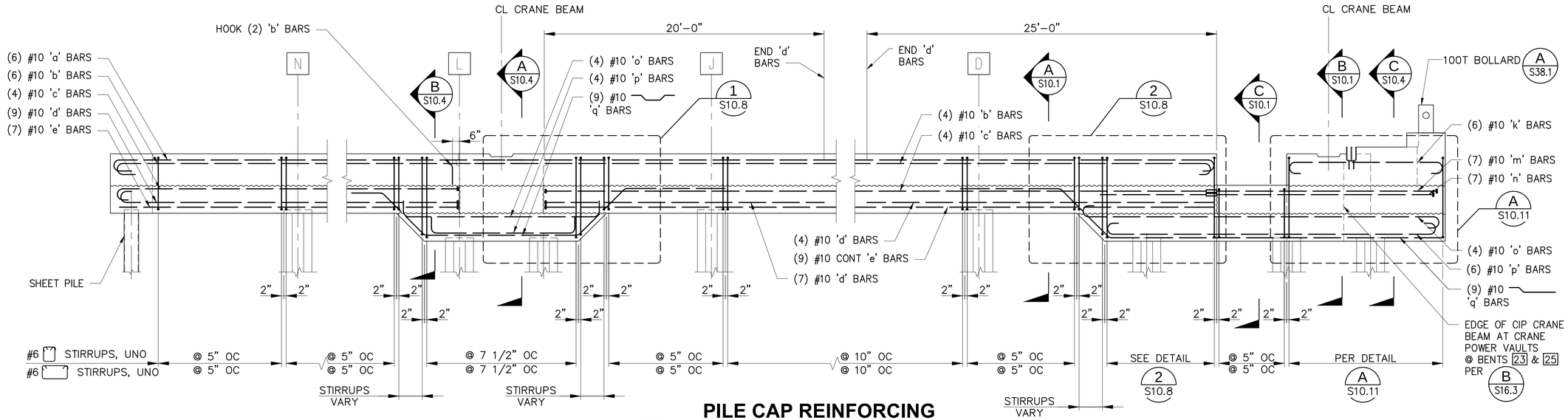
BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.9



PILE CAP REINFORCING ELEVATION
BENT 22, 24, 26, 28

A S4.1

1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENT 23, 25, 27

B S4.1

1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1
2. 9'-0" AND 5'-0" AT BENT 28 , 5'-0" AT BENT 22 , AND 2'-6" AT BENTS 24 & 26

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2539305841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	CHECKED BY	DATE
DESIGNED BY	SEK	
DRAWN BY	TAH	
CHECKED BY		
DIRECTOR ENG.		DATE
PROJ. ENGR		DATE

APPROVED:

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 10

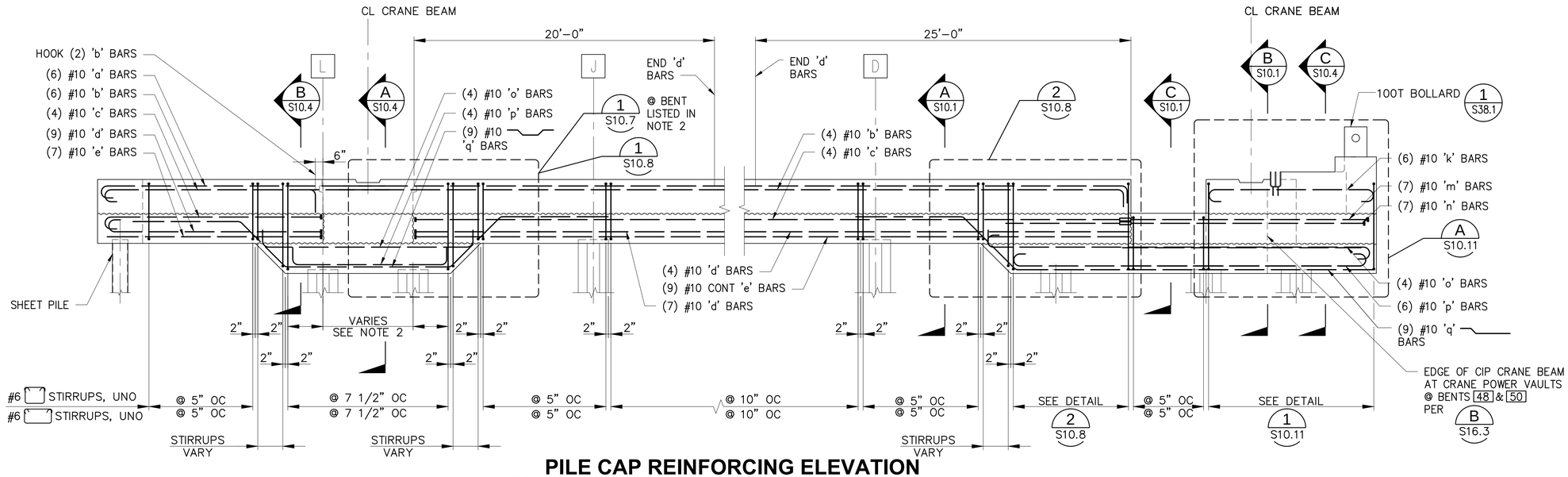
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
S9.10
SH 221 OF 499

CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

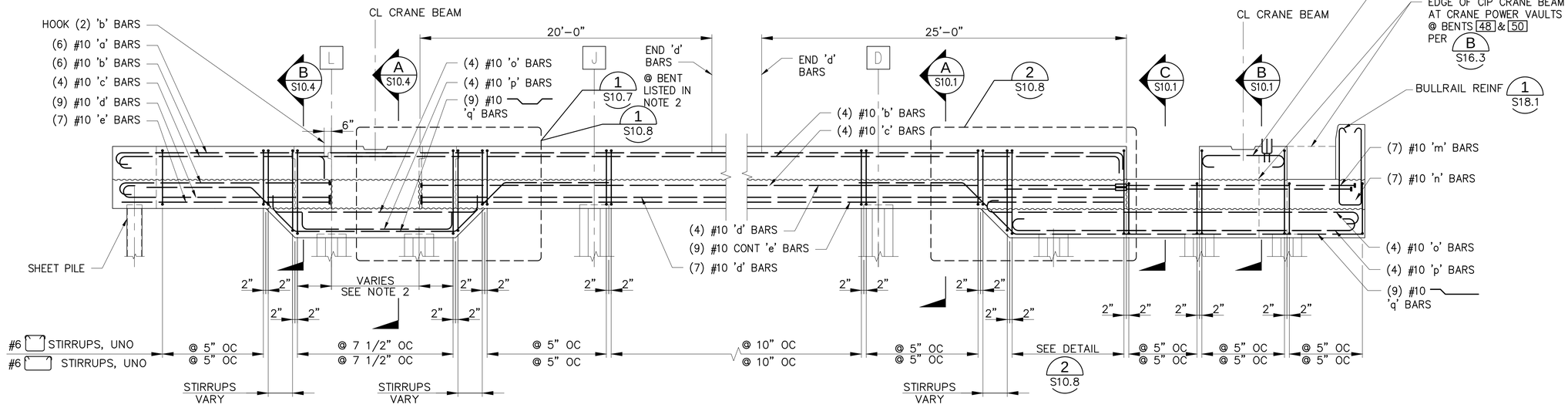
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.10



PILE CAP REINFORCING ELEVATION
A BENTS 29 - 39, 45 - 67 (ODD NUMBERED BENTS)
A S4.1

1/4" = 1'–0"



PILE CAP REINFORCING ELEVATION
B BENTS 30-38, 46-70 (EVEN NUMBERED BENTS)
B S4.1

1/4" = 1'–0"

NOTES:

1. REFER TO NOTES ON S9.1
2. 5'–0" @ BENTS 29, 31, 32, 35, 36, 38, 39, 46, 47, 49, 50, 53, 54, 56, 57, 59, 60, 62, 63, 66, 67, AND 70. 3'–3" AT LANDSIDE OF DROP–DOWN AND 2'–6" AT WATERSIDE OF DROP–DOWN AT BENT 30 . 2'–6" AT ALL OTHER BENTS (SHOWN).
3. GREEN EPOXY COATED REBAR USED FOR STAGE 1 STIRRUP CAP BARS AT BENT 49, AND FOR ADDITIONAL REBAR IN BENT 30 DROP–DOWN EXTENSION.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.11

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE
ONE SITCUM PLAZA PRINTED BY:
TACOMA, WA 98401-1837 PORT ADDRESS:

APPROVED:

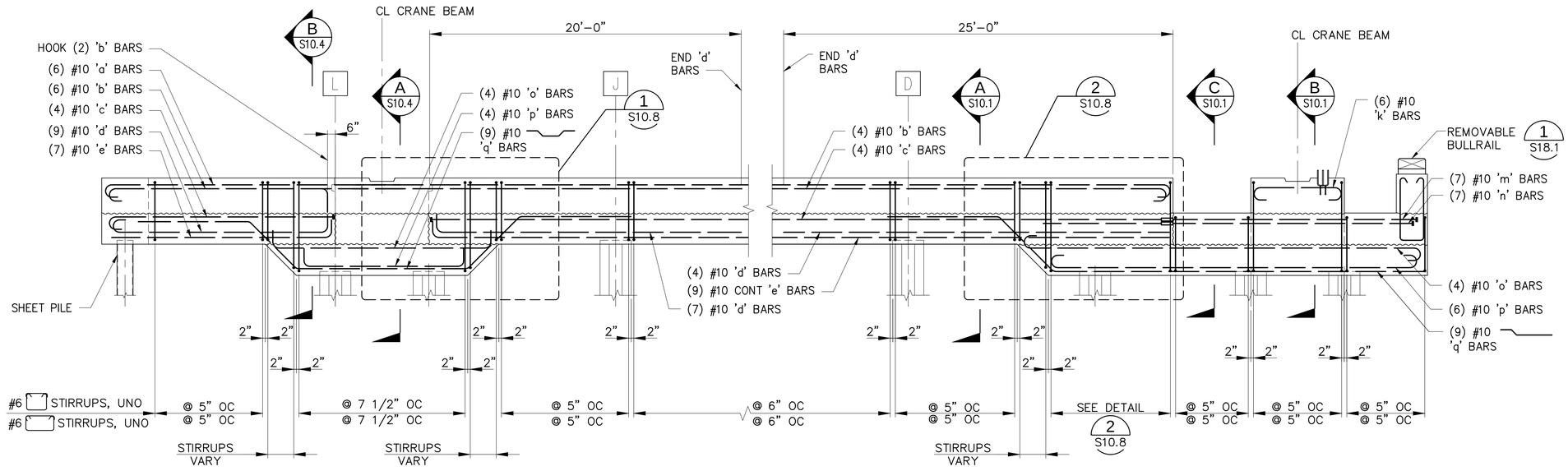
PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 11

6552
S9.11
SH 222 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

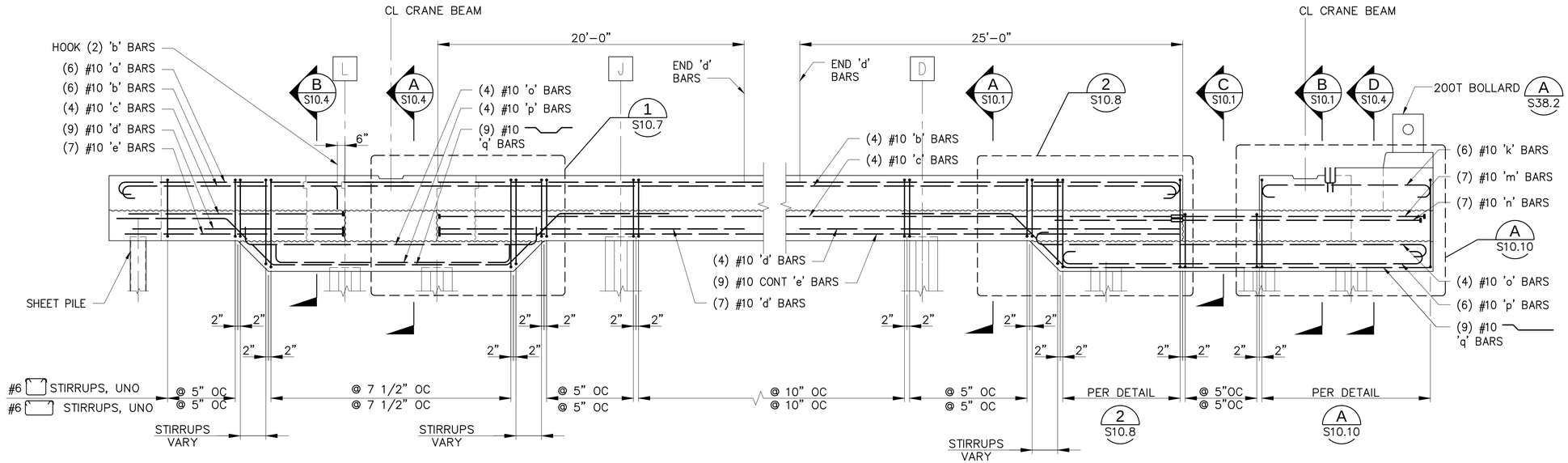
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



PILE CAP REINFORCING ELEVATION
HEAVY LOAD ZONE BENTS 39 - 44

A S4.1 — 1/4" = 1'-0"



NOTES:

1. REFER TO NOTES ON S9.1

PILE CAP REINFORCING ELEVATION
BENTS 69

B S4.1 — 1/4" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 12

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

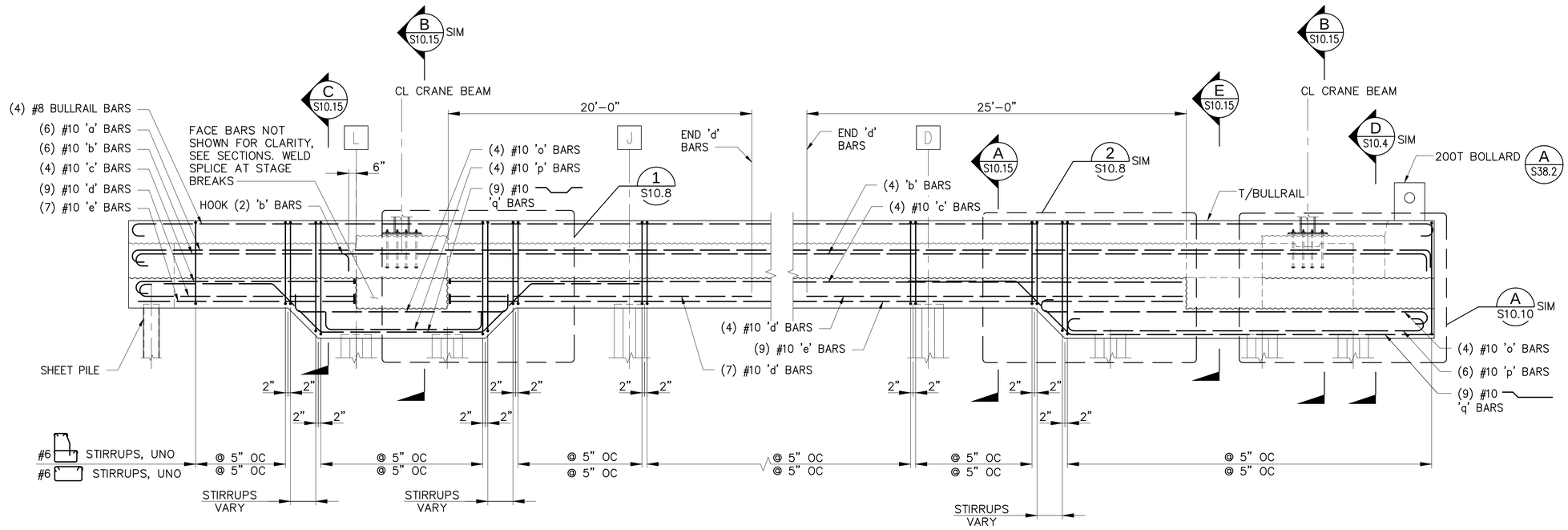
PRINTED BY: tlemons Jul 20, 2018 PROJ. ENGR. DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S9.12
SH 223 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_09125110912S1-S9.12

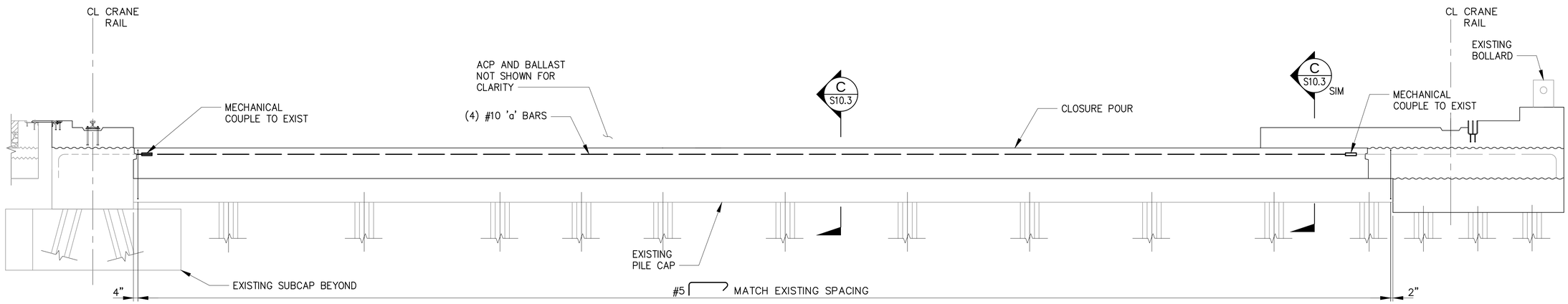
BINDING EDGE



PILE CAP REINFORCING ELEVATION
BENT 71

B S4.1

1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION
PIER 3 EXTENSION BENT 67

A S4.1

1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 13

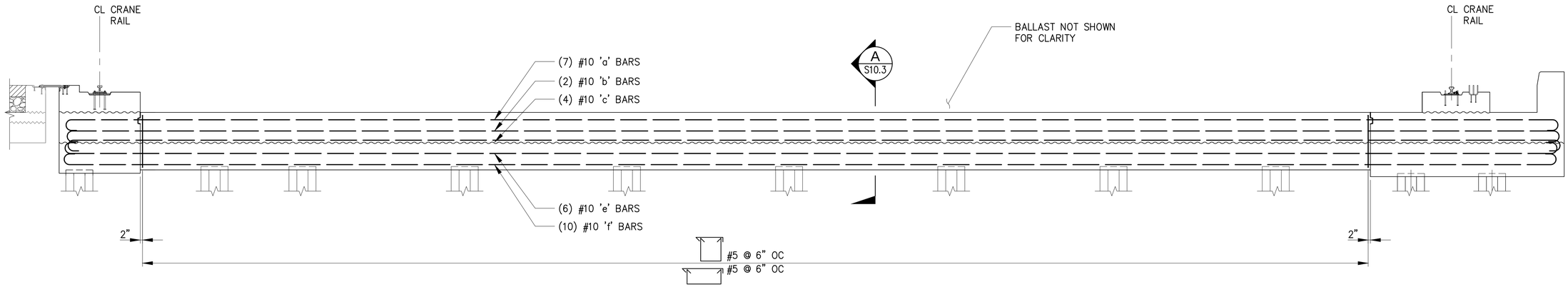
6552
S9.13
SH 224 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39 @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

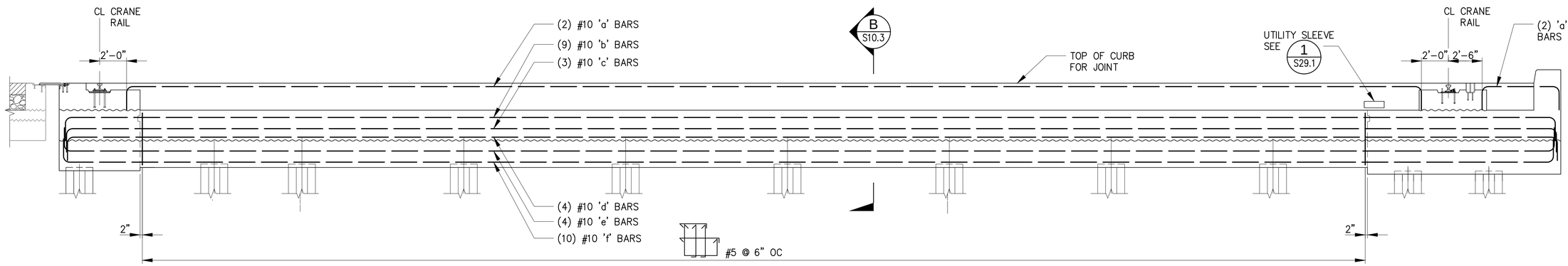
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.13



PILE CAP REINFORCING ELEVATION
PIER 3 EXTENSION BENT 67.6

A S4.1 — 1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION
PIER 3 EXTENSION BENT 67.9

B S4.1 — 1/4" = 1'-0"

NOTES

1. REFER TO NOTES ON S9.1
2. FOR WATERSIDE CRANE BEAM DETAILS, SEE B S17.2
3. FOR LANDSIDE CRANE BEAM DETAILS, SEE B S15.2

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.14

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff — 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK — CHECKED BY — DATE

TAH — DIRECTOR ENG. — DATE

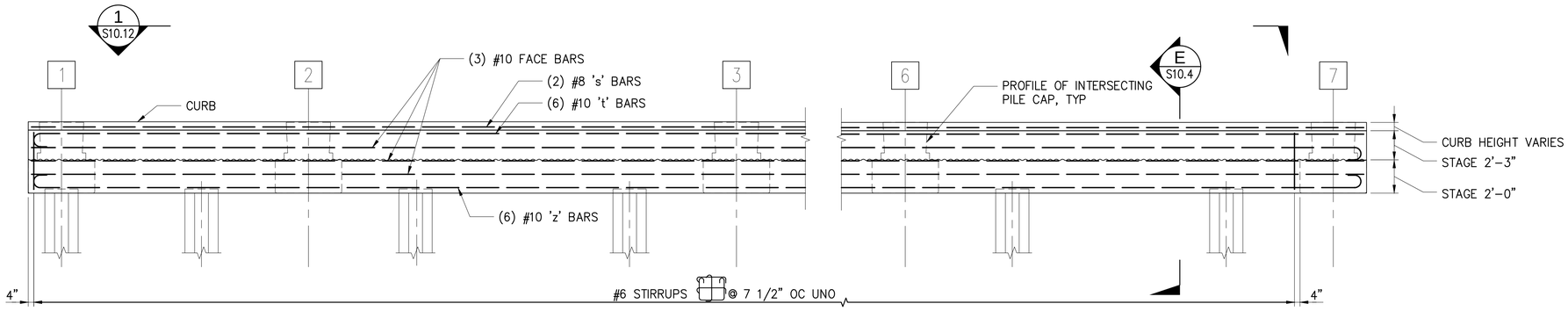
tlemons Jul 20, 2018 — PROJ. ENGR — DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 14

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY:
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
S9.14
SH 225 OF 499

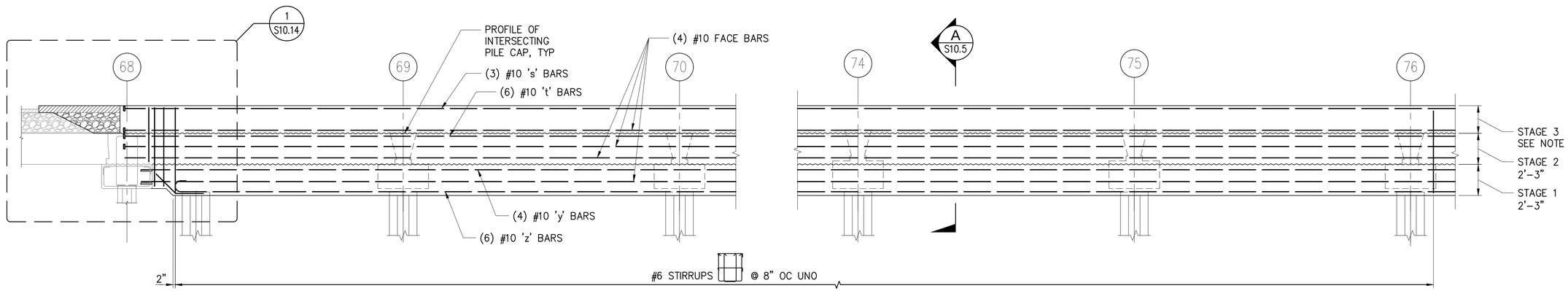
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



PILE CAP REINFORCING ELEVATION - BENT AA

A / S4.1

1/4" = 1'-0"



NOTES:

1. REFER TO NOTES ON S9.1
2. STAGE 3 VARIES PER FINISHED SLOPE PER CIVIL SHEETS

PILE CAP REINFORCING ELEVATION AT BENT BB

B / S4.1

1/4" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 15

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

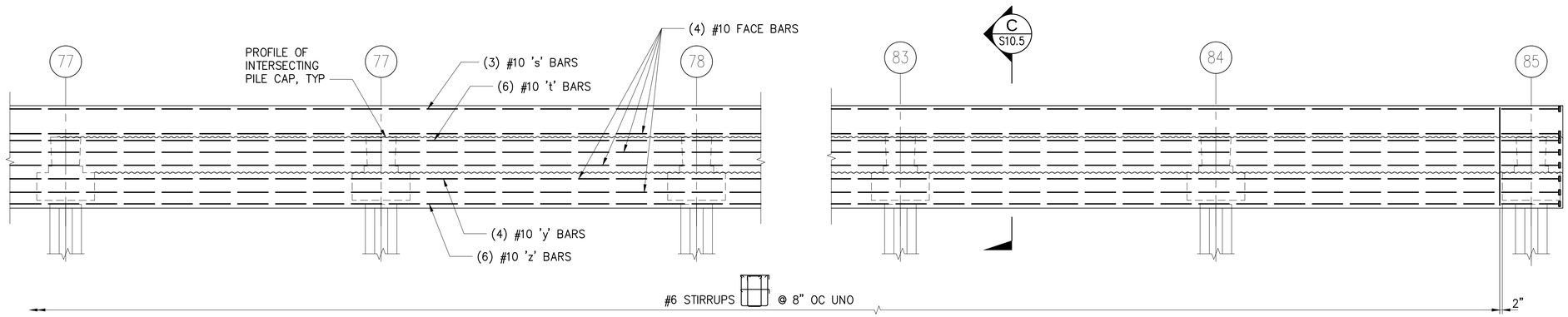
6552
S9.15
SH 226 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

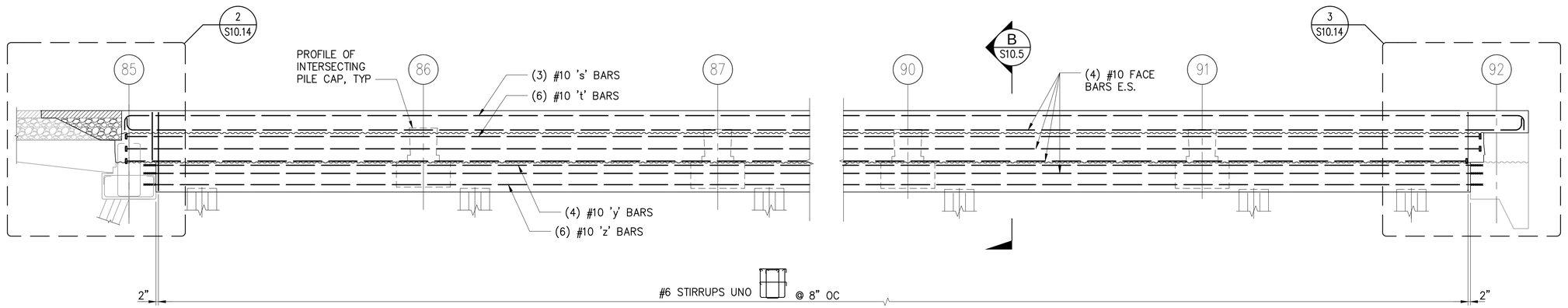
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S9.15



PILE CAP REINFORCING ELEVATION - BENT M

A S4.1

1/4" = 1'-0"



PILE CAP REINFORCING ELEVATION - BENT DD

B S4.2

1/4" = 1'-0"

NOTES:

1. REFER TO NOTES ON S9.1

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S9.16

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	10/11/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

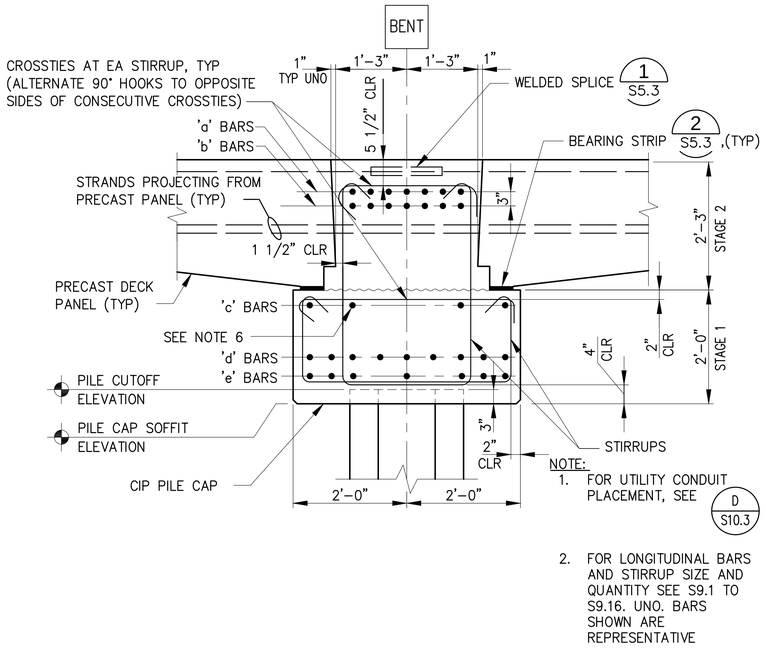
DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP REINFORCING ELEVATIONS - SHEET 16

SEK			
CHECKED BY DATE			
TAH			
PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

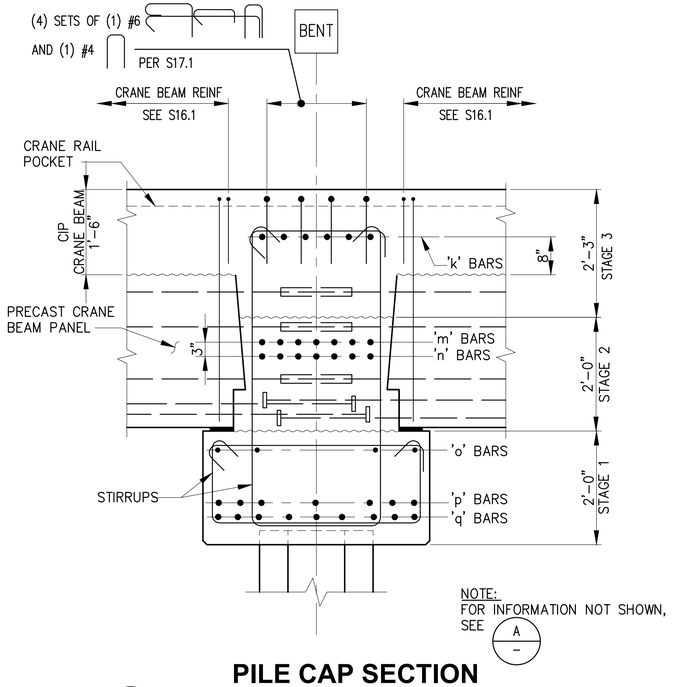
6552
S9.16
SH 227 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



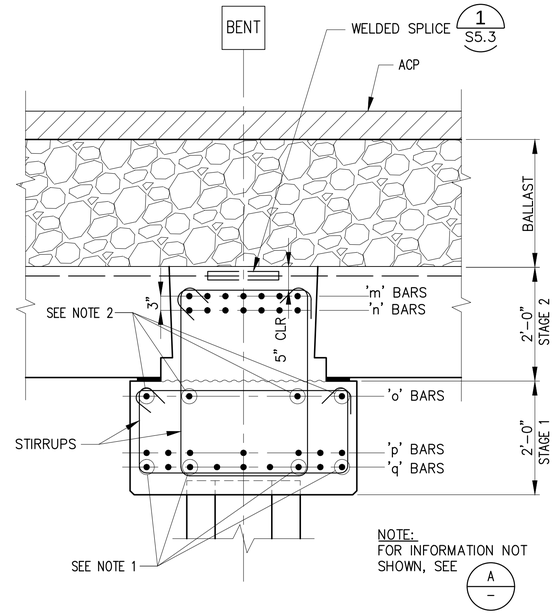
A TYPICAL PILE CAP SECTION

S9.1–S9.12, S10.2, S10.4, S14.1–S14.3, S16.1–S16.4 — 3/4"=1'–0"



B PILE CAP SECTION AT WATERSIDE CRANE BEAM

S9.1–S9.5, S9.7–S9.12, S10.1, S10.11 — 3/4"=1'–0"

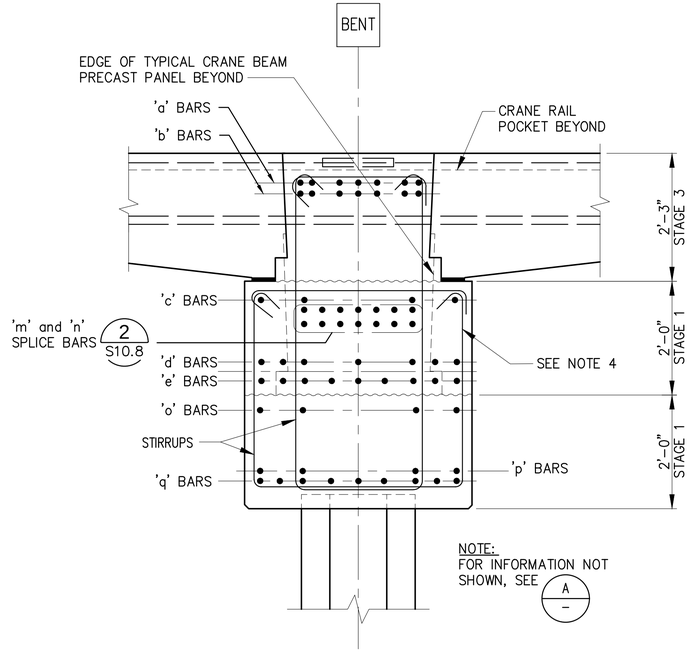


C PILE CAP SECTION AT UTILITY TRENCH

S9.1–S9.12 — 3/4"–1'–0"

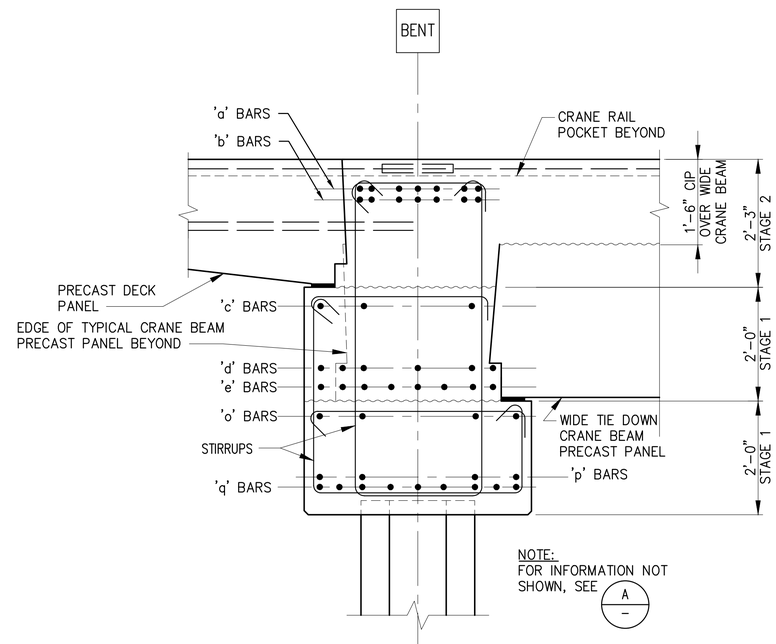
NOTES:

1. TERMINATE FOUR 'q' BARS AT WATERSIDE FACE OF WITH 90° HOOKS.
2. TERMINATE EACH SIDE OF 'o' BARS WITH 90° HOOK.
3. ADJUST STIRRUPS AND LONGITUDINAL BARS OVER PILES PER DETAIL 2 S8.2
4. MECHANICAL COUPLERS INSTALLED BELOW STIRRUP HOOKS IN STAGE 1 OF BENTS 36–38.



D PILE CAP SECTION AT WATERSIDE DROP DOWN

S10.8 — 3/4"=1'–0"



E PILE CAP SECTION AT LAND SIDE CRANE BEAM AT WIDE PANEL TRANSITION

S10.7 — 3/4"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	
CHECKED BY	TAH	DATE
DIRECTOR ENG.	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA	
DRAWING SCALE:	AS NOTED	TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 1

TOWNSHIP: 21N	RANGE: 3E
DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PARCEL:	DRAWING SCALE: AS NOTED

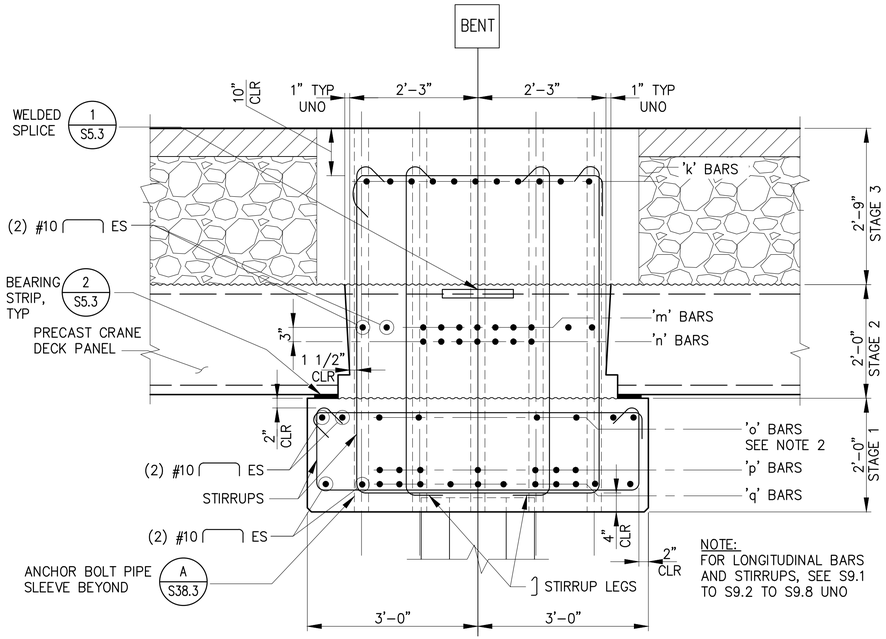
CONT/CONS: 0701136	SECTION: 27
M. ID: 091251	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	TACOMA, WA 98401-1837

6552
S10.1
SH 228 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

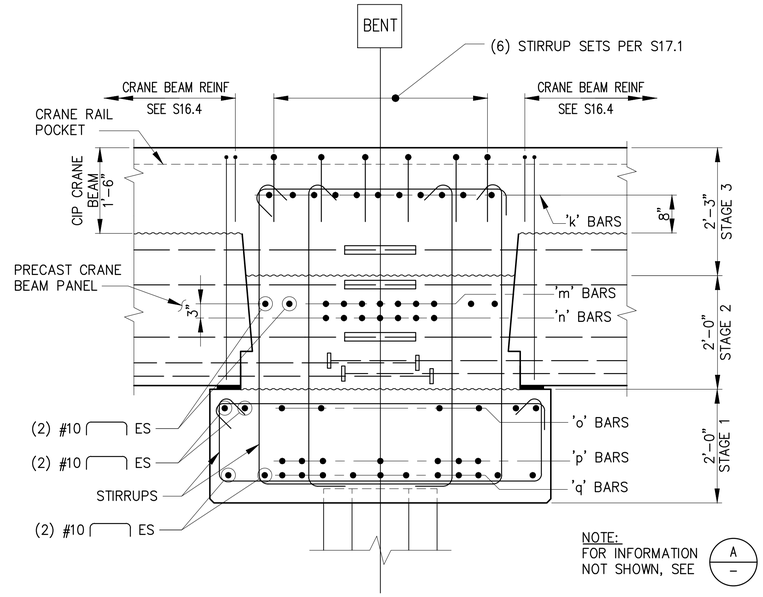
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.1



PILE CAP SECTION AT DOUBLE BITT BOLLARD

A — S9.2–S9.8, S10.9 — 3/4"=1'–0"

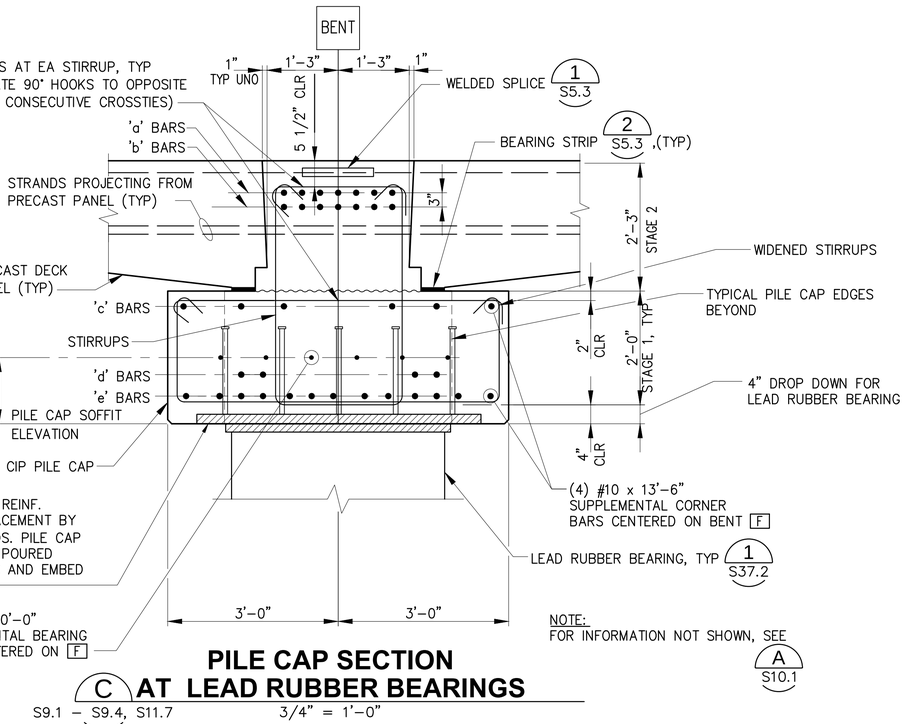


DOUBLE BITT BOLLARD PILE CAP SECTION AT WATERSIDE CRANE BEAM

B — S9.2–S9.8, S10.9, S16.4 — 3/4"=1'–0"

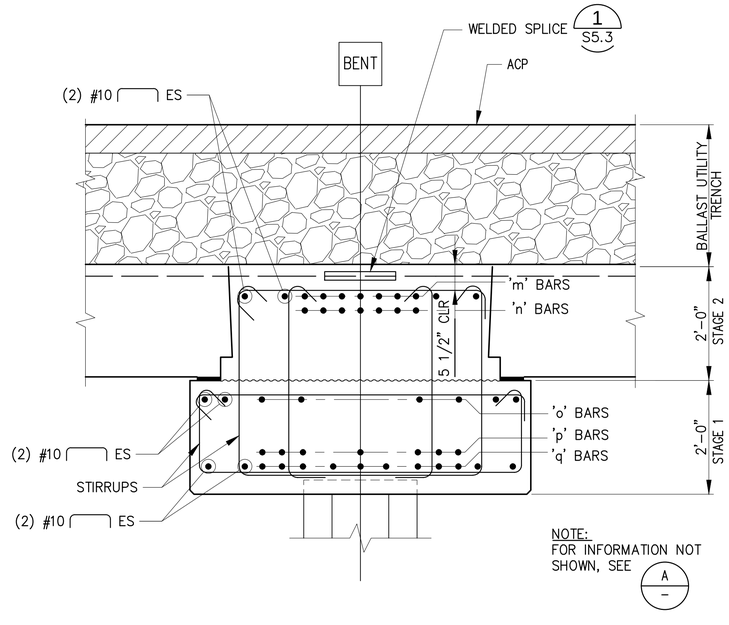
NOTES:

1. TERMINATE FOUR 'q' BARS AT WATERSIDE FACE OF WITH 90° HOOKS.
2. TERMINATE EACH END OF 'o' BARS WITH 90° HOOK.
3. TERMINATE 'k', 'm', 'n', 'o', 'p' AND 'q' BARS AT FACE OF ANCHOR BOLT PIPE SLEEVE WITH HEADED REINFORCEMENT WHERE BARS CONFLICT WITH PIPE SLEEVE. SEE A S10.9
4. ADJUST STIRRUPS AND LONGITUDINAL BARS OVER PILES PER DETAIL 2 S8.2



PILE CAP SECTION AT LEAD RUBBER BEARINGS

C — S9.1 – S9.4, S11.7 — 3/4" = 1'–0"



DOUBLE BITT BOLLARD PILE CAP SECTION AT UTILITY TRENCH

D — S9.2–S9.8 — 3/4"=1'–0"

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff — 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 2

SEK	CHECKED BY	DATE	
TAH			
DIRECTOR ENG.	DATE		
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

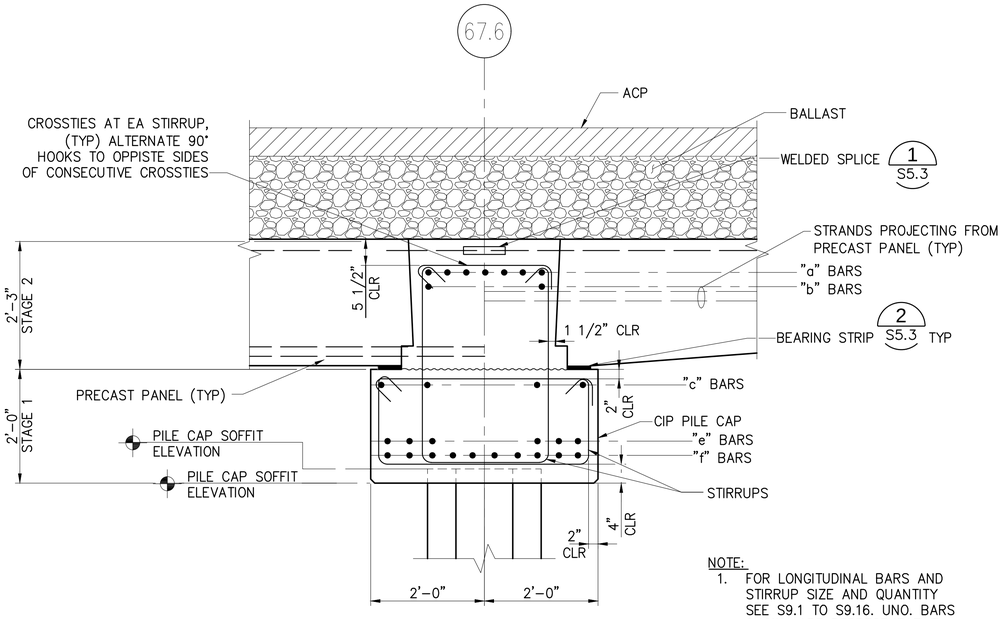
6552
S10.2
SH 229 OF 499

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

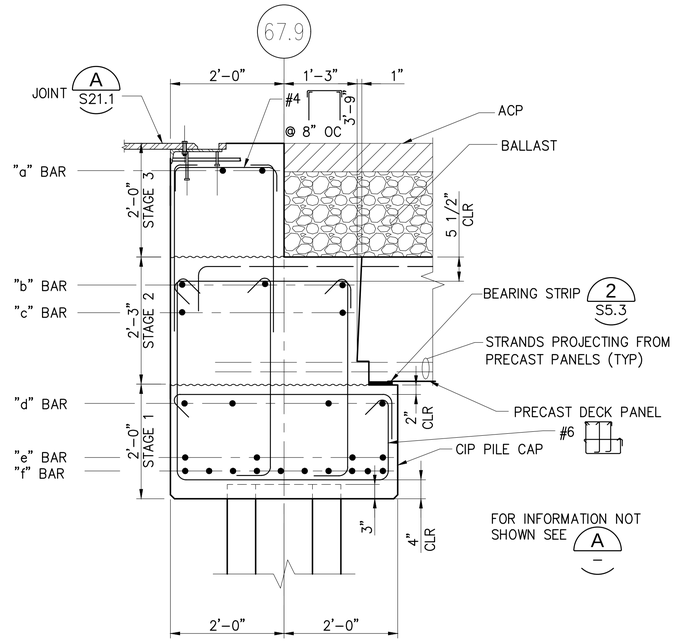
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

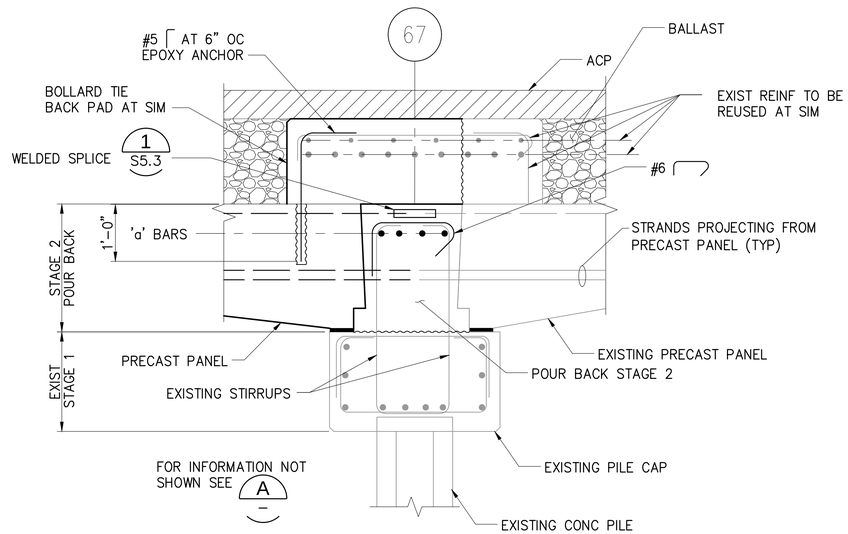
PORT OF TACOMA FILE: N:\Struct\1114-I114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.2



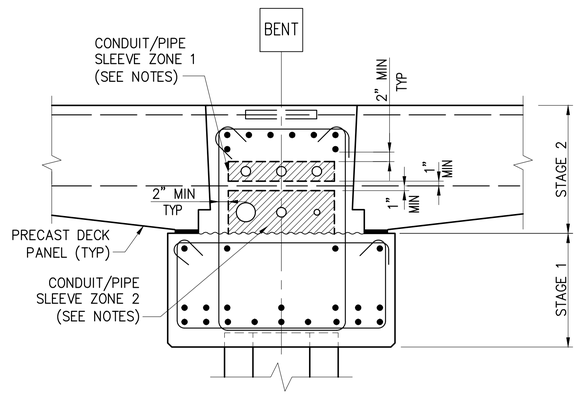
A S9.14, S14.3, S16.3 **PILE CAP SECTION** 3/4"=1'-0"



B S9.14,14.3,16.4 **PILE CAP SECTION** 3/4"=1'-0"



C S9.13 **PILECAP SECTION @ GRID 67 PIER 3 EXTENSION** 3/4"=1'-0"



NOTES:

1. FOR CONDUIT AND PIPE SLEEVE TYPE, SIZE, SPACING, LOCATION, AND DETAILS SEE CIVIL AND ELECTRICAL SHEETS. CONDUIT /PIPE SLEEVE SIZE AND SPACING SHALL COMPLY WITH THE FOLLOWING NOTES.
2. ALL CONDUIT AND PIPE SLEEVES SHALL BE PLACED WITHIN THE LIMITS OF ZONE 1 AND ZONE 2 AS SHOWN ON THIS DETAIL.
3. THE MAXIMUM OUTSIDE DIAMETER OF ANY CONDUIT OR PIPE SLEEVE (O.D.) SHALL NOT EXCEED 9 INCHES.
4. THE MINIMUM CENTER TO CENTER SPACING OF CONDUIT OR PIPE SLEEVE SHALL BE 3 TIMES THE DIAMETER OF THE CONDUIT OR PIPE SLEEVE. FOR ADJACENT CONDUITS OR PIPE SLEEVES WITH DIFFERENT DIAMETERS THE AVERAGE DIAMETER SHALL BE USED.
5. THE TOTAL CROSS SECTIONAL AREA OF VOIDED CONCRETE CREATED BY ALL THE CONDUITS AND /OR PIPE SLEEVES IN A PILE CAP SHALL NOT EXCEED 64 SQUARE INCHES.

D S5.2–S5.5 **SECTION AT PILE CAP CONDUIT/ PIPE SLEEVE ZONE** 3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

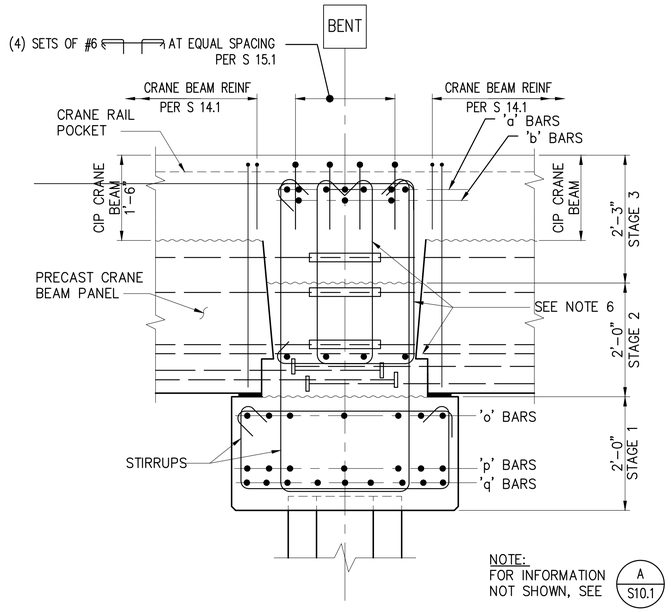
PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 3

6552
S10.3
SH 230 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons Jul 20, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

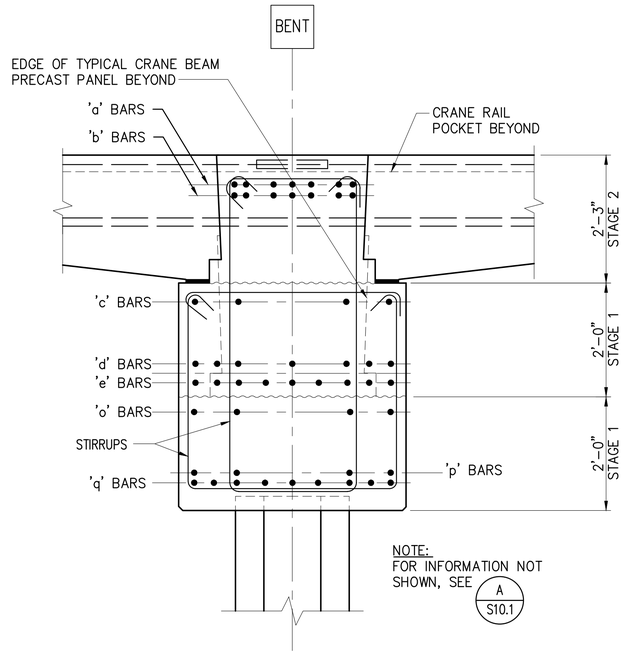
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\CurrentPhase 2_091251\091251-S10.3



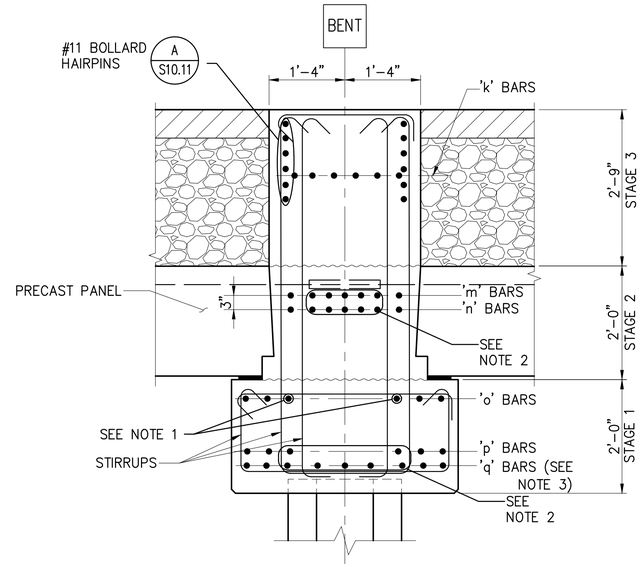
PILE CAP SECTION AT LANDSIDE CRANE BEAM

A — S9.1–S9.3, S9.6–S9.12 — 3/4"=1'-0"



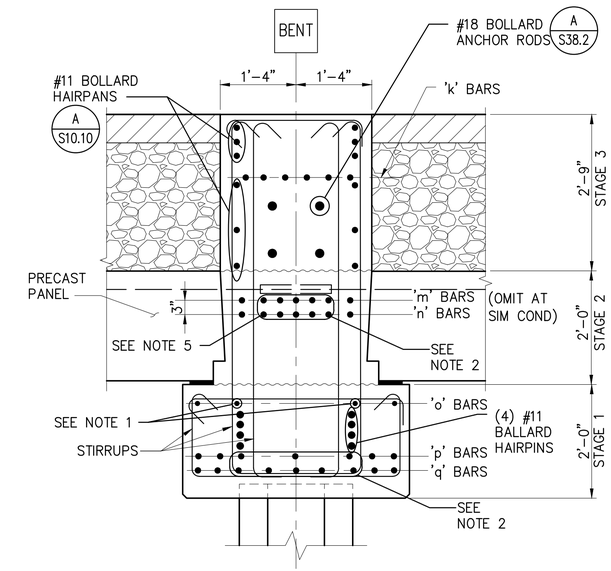
PILE CAP SECTION AT LANDSIDE DROP DOWN

B — S9.1–S9.12, S10.7, S10.8 — 3/4"=1'-0"



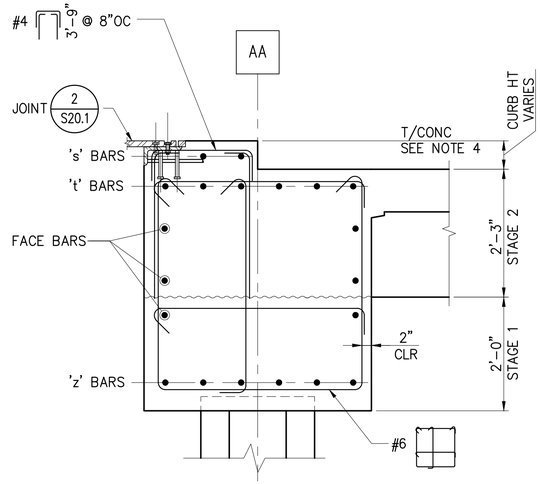
PILE CAP SECTION AT 100 TON BOLLARD

C — S9.9–S9.11, S10.11 — 3/4"=1'-0"



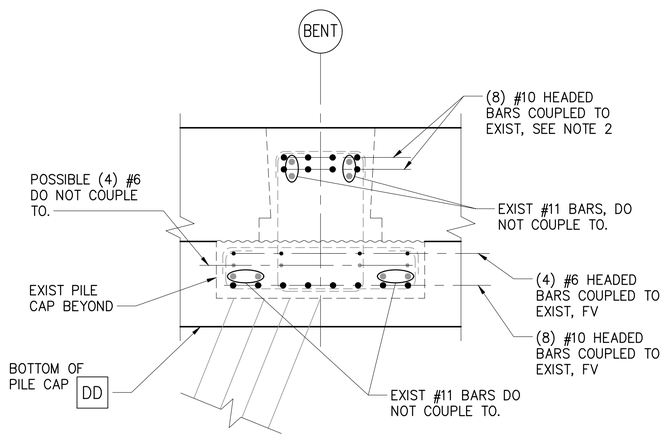
PILE CAP SECTION AT 200 TON BOLLARD

D — S9.12, S9.13, S10.10 — 3/4"=1'-0"



EDGE BEAM SECTION AT GRID AA

E — S9.15 — 3/4"=1'-0"



SECTION AT EXISTING PILE CAP BUILD BACK

F — S10.5 — 3/4"=1'-0"

NOTES:

1. TERMINATE TWO 'o' BARS AT FACE OF BOLLARD WITH 90° HOOKS. TERMINATE OTHER 'o' BARS AT FACE OF WATERSIDE PILE CAP WITH 90° HOOKS.
2. THESE 'm', 'n', 'p', 'q' BARS TERMINATE AT FACE OF BOLLARD WITH HEADED REINFORCEMENT. TERMINATE OTHER 'm', 'n', 'p', 'q' BARS AT WATERSIDE FACE OF PILE CAP WITH HEADED REINFORCEMENT.
3. FOR THESE 'q' BARS TERMINATE AT WATERSIDE FACE OF PILE CAP WITH HEADED REINFORCEMENT.
4. T/CONC = TOP OF ASPHALT PER GRADING AND PAVING PLAN C4.1
5. 'm' AND 'n' BARS CUT AND SPLICED USING APPROVED MECHANICAL COUPLERS AT BENT 69
6. AT BENT 31.5 ADD (4) #6x6–0" LONGITUDINAL BARS AND (4) SETS OF #5 STIRRUPS AT 7.5" OC WHERE THE (4) SETS OF #6 STIRRUPS HAVE BEEN CUT IN THE STAGE 2 SECTION OF THE PILE CAP.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
tlemons Jul 20, 2018 PROJ. ENGR DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 4

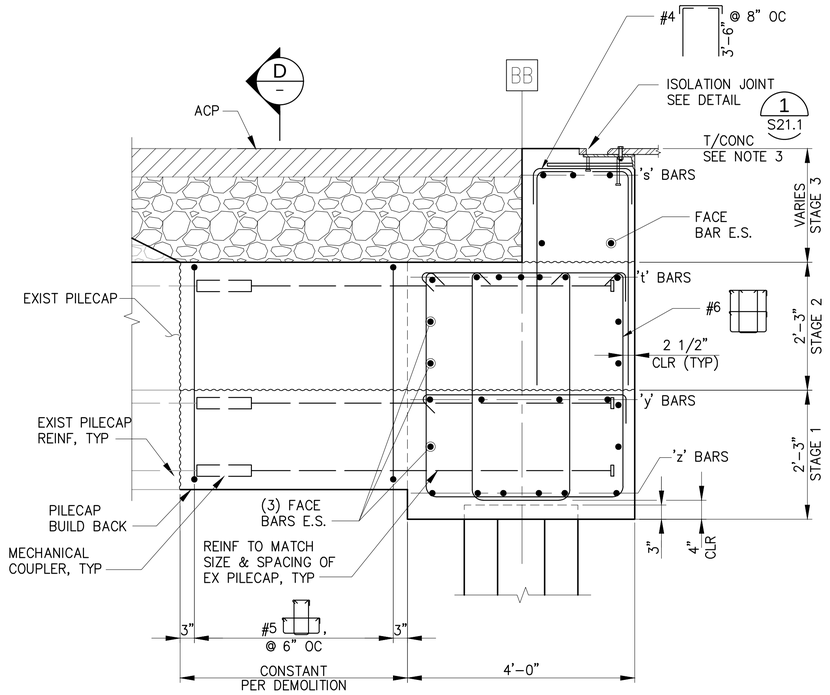
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tlemons Jul 20, 2018
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA
PARCEL:	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837

6552
S10.4
SH 231 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

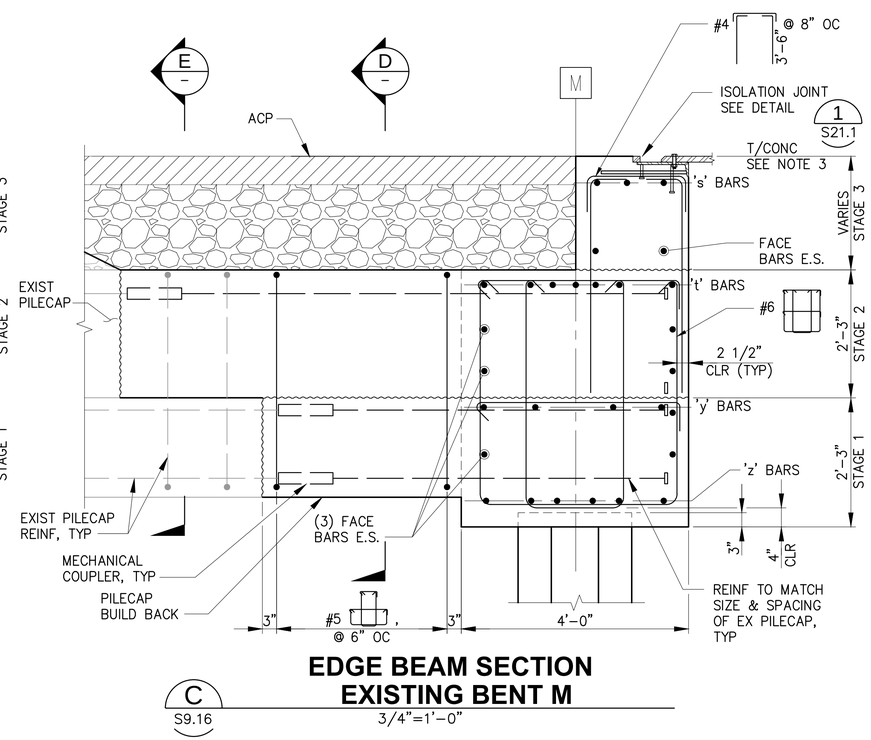
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.4



EDGE BEAM SECTION
EXISTING BENT BB

A S9.15, S22.2 — 3/4"=1'-0"

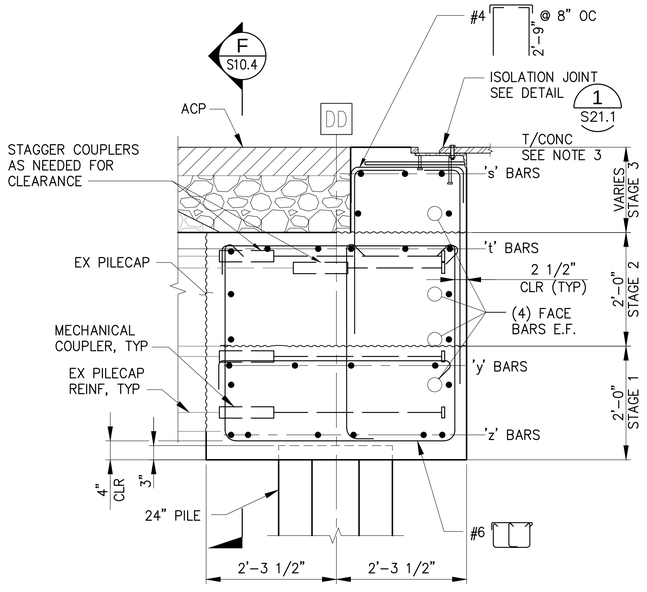


EDGE BEAM SECTION
EXISTING BENT M

C S9.16 — 3/4"=1'-0"

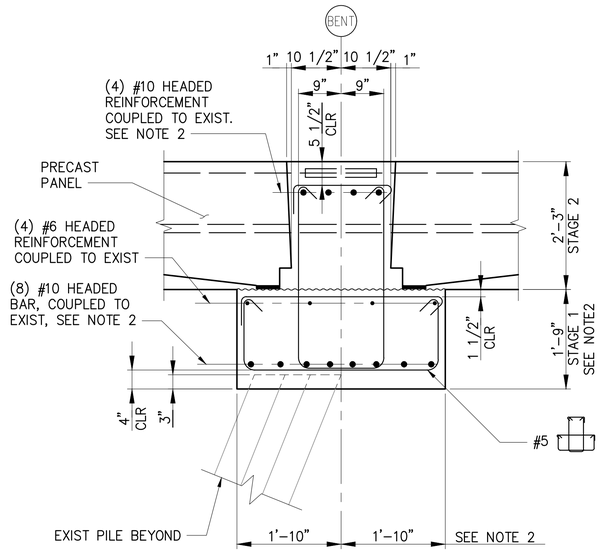
NOTES:

1. COUPLE HEADED REINFORCEMENT TO EXISTING BARS PROTRUDING FROM EXISTING PILE CAP, UNO.
2. STAGE 1 MAY VARY AT EXIST PILE CAP BUILD BACK, MATCH DEPTH AND WIDTH OF EXISTING PILE CAP.
3. T/CONC = TOP OF ASPHALT PER GRADING AND PAVING PLAN C4.1



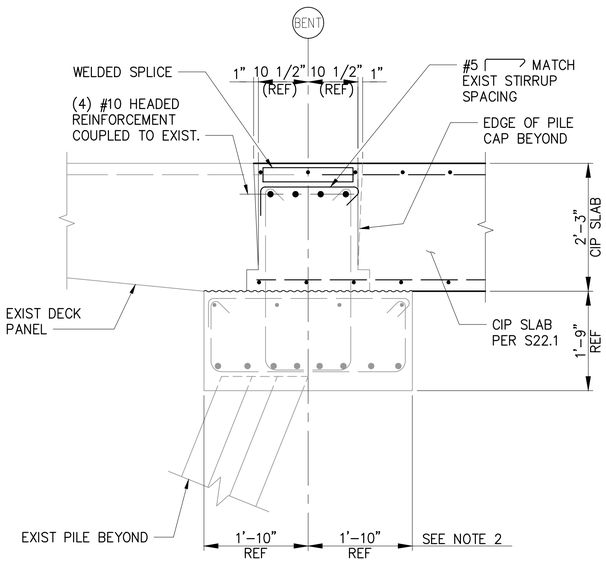
EDGE BEAM SECTION
EXISTING BENT DD

B S9.16 — 3/4"=1'-0"



SECTION

D — 3/4"=1'-0"



SECTION

E — 3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE
TAH	PROJ. ENGR	DATE
tlemons Jul 20, 2018	DRAWING SCALE: AS NOTED	

APPROVED:

DIRECTOR ENG. DATE

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

PRINTED BY:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 5

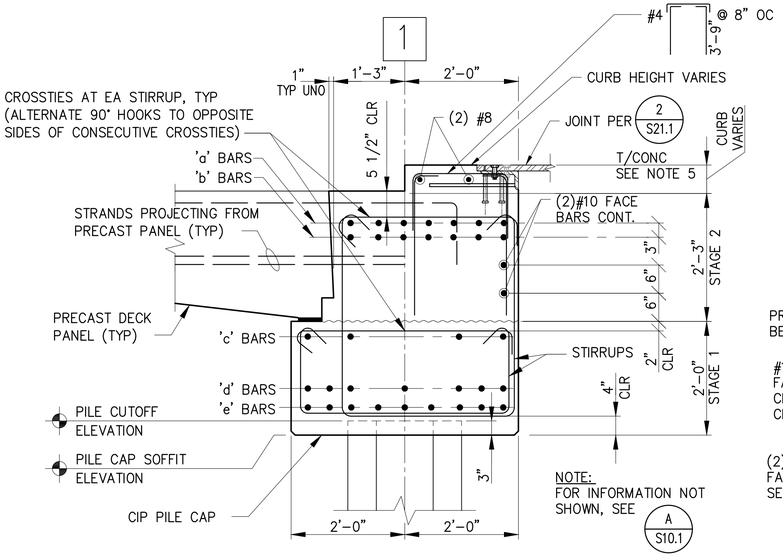
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S10.5
SH 232 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

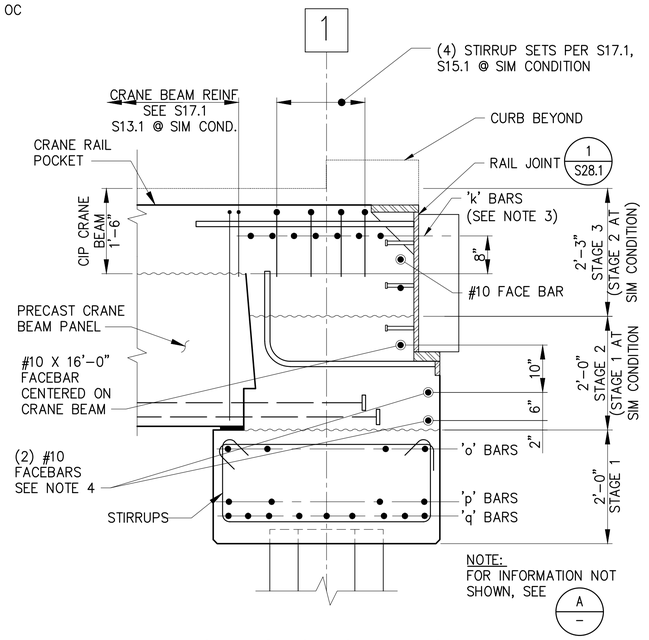
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.5



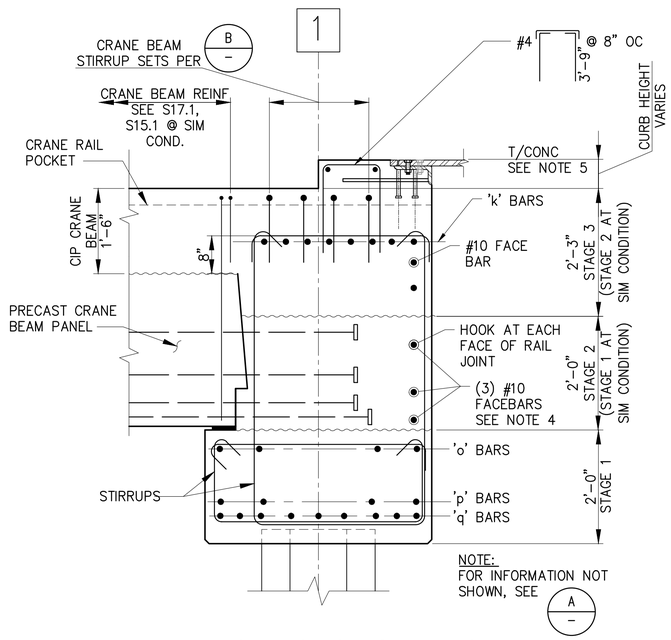
A TYPICAL PILE CAP SECTION

A / S9.1 — 3/4"=1'-0"



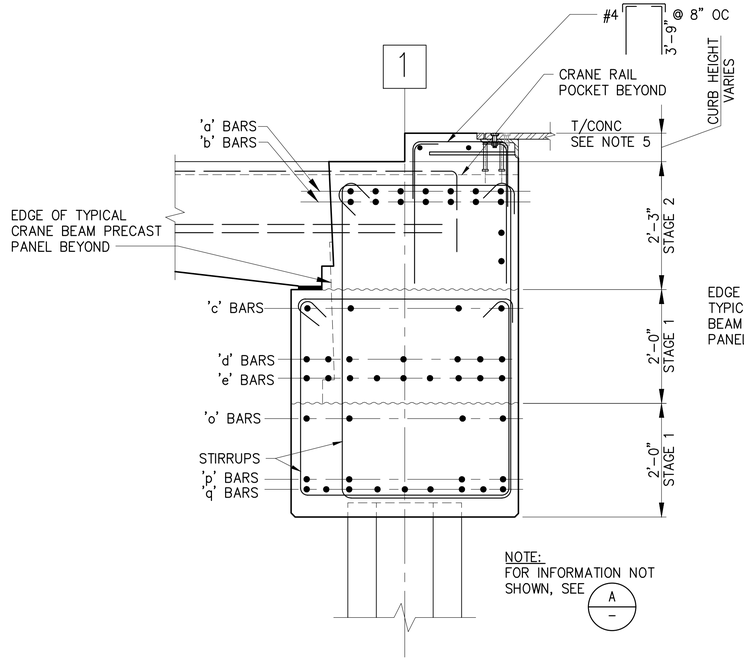
B PILE CAP SECTION AT CRANE BEAM AT CRANE RAIL POCKET

B / S9.1, S16.4 — 3/4"=1'-0"



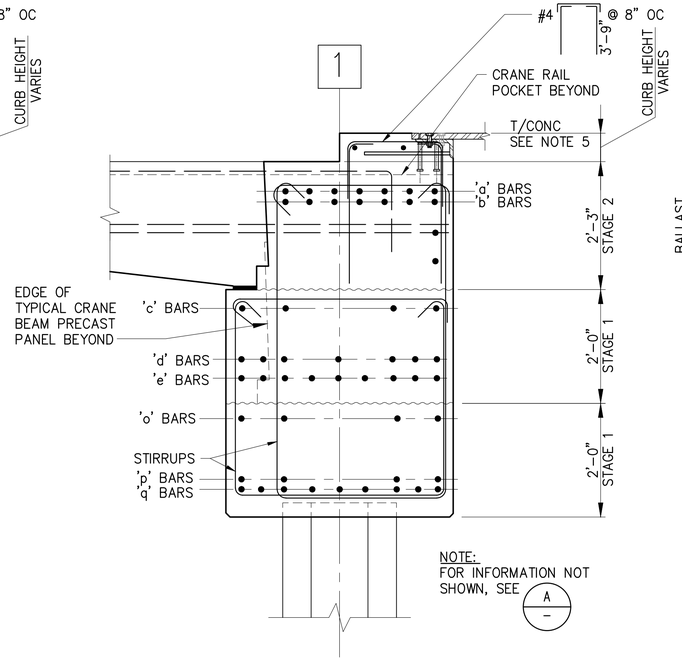
C PILE CAP SECTION AT CRANEBEAM (OUTSIDE OF CRANE RAIL POCKET)

C / S9.1, S14.3 — 3/4"=1'-0"



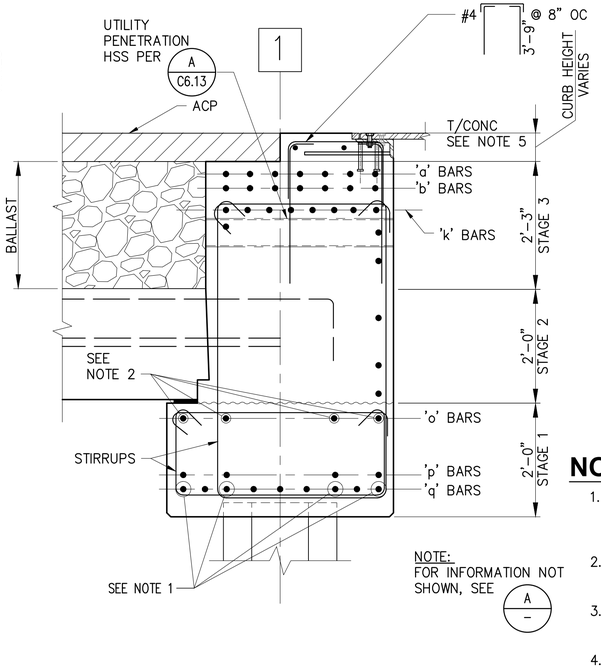
D PILE CAP SECTION AT LANDSIDE DROP DOWN

D / S9.1 — 3/4"=1'-0"



E PILE CAP SECTION AT WATERSIDE DROP DOWN

E / S9.1 — 3/4"=1'-0"



F PILE CAP SECTION AT UTILITY TRENCH

F / S9.1 — 3/4"=1'-0"

NOTES:

1. TERMINATE FOUR 'q' BARS AT WATERSIDE FACE OF WITH 90° HOOKS.
2. TERMINATE EACH SIDE OF 'o' BARS WITH 90° HOOK.
3. HOOK 'k' BARS EACH SIDE TO RAIL JOINT AS NEEDED
4. #10X16'-0" FACE BARS AT LANDSIDE CRANEBEAM, 22'-0" AT WATERSIDE
5. T/CONC = TOP OF ASPHALT PER GRADING AND PAVING PLAN C4.1

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 6

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY: tiemons		Jul 20, 2018	
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

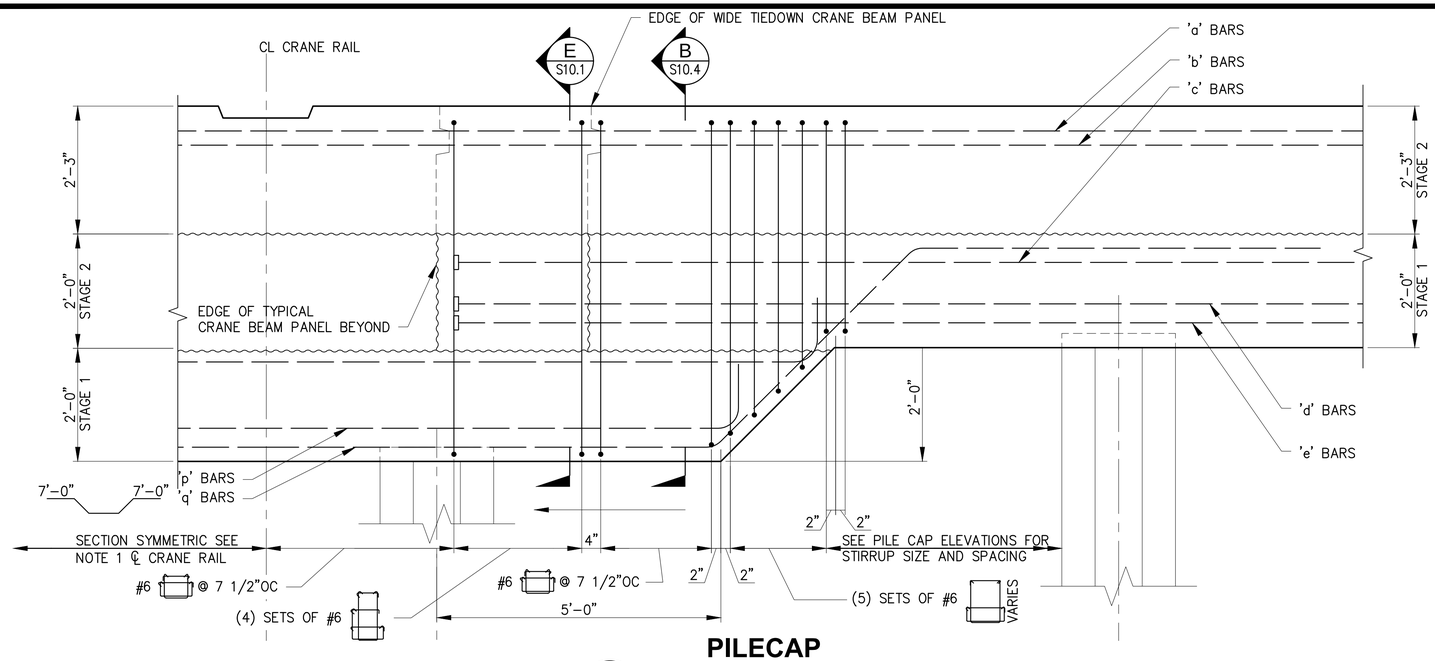
6552
S10.6
SH 233 OF 499

CONT/CONS: 0701361	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

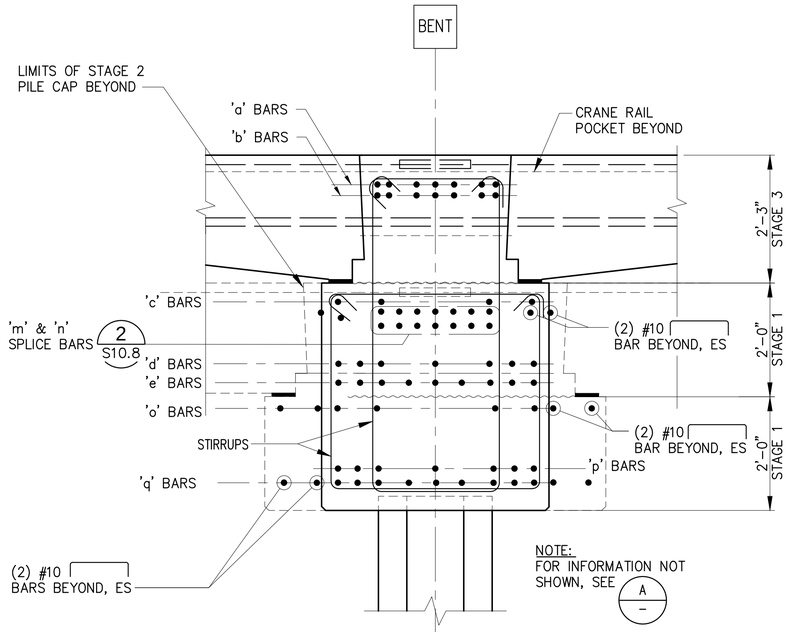
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.6



PILECAP STEP DETAIL

1 S9.5 – S9.12 SCALE: 3/4"= 1'-0"

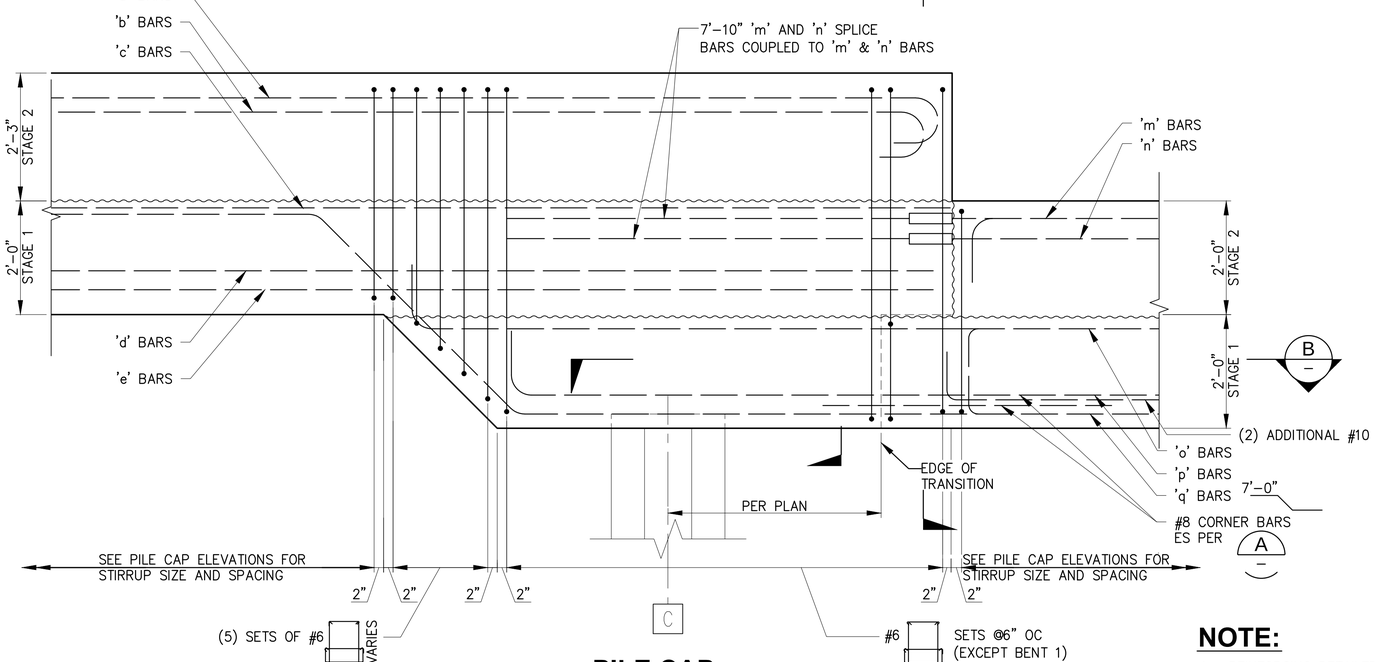


DOUBLE BITT BOLLARD PILE CAP SECTION

A – SCALE: 3/4"= 1'-0"

D S10.1 SIM

A –



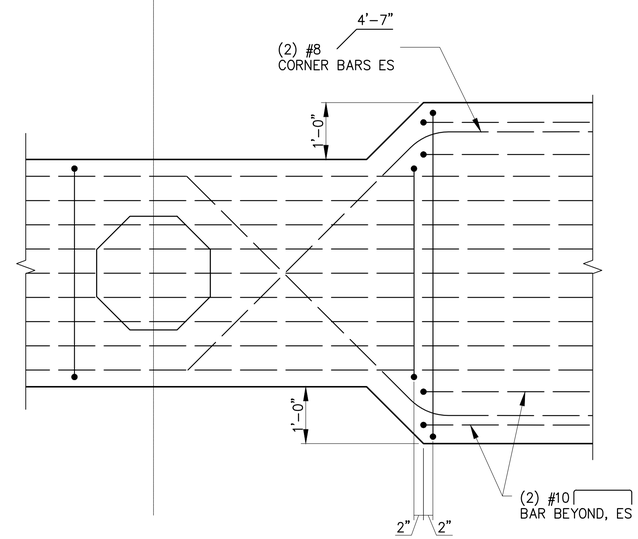
PILE CAP STEP DETAIL

2 S9.2 – S9.8 SCALE: 3/4"= 1'-0"

NOTE:

1. REINFORCING DETAILED SYMMETRIC CEBOUT ℄ CRAIN RAIL WHERE CRANE BEAM IS SYMMETRIC.

C



STAGE 1 TRANSITION SECTION

B – SCALE: 3/4"= 1'-0"

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 7

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

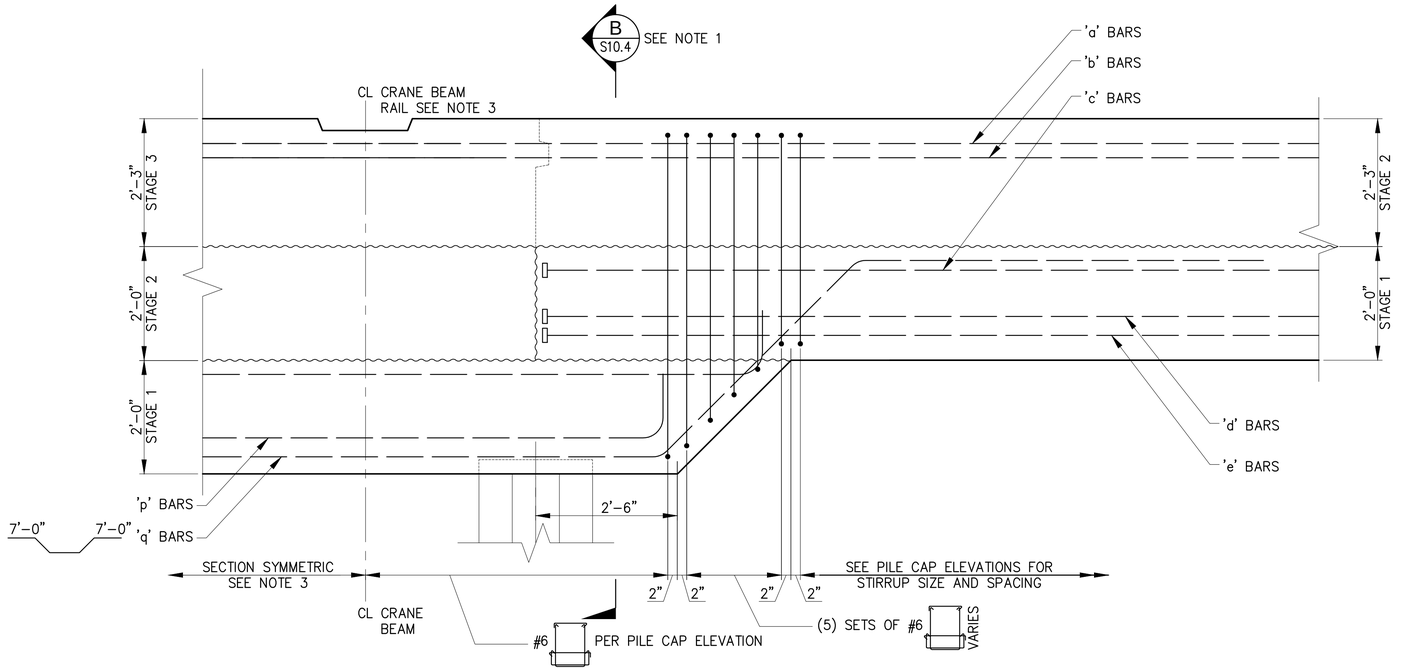
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S10.7
SH 234 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

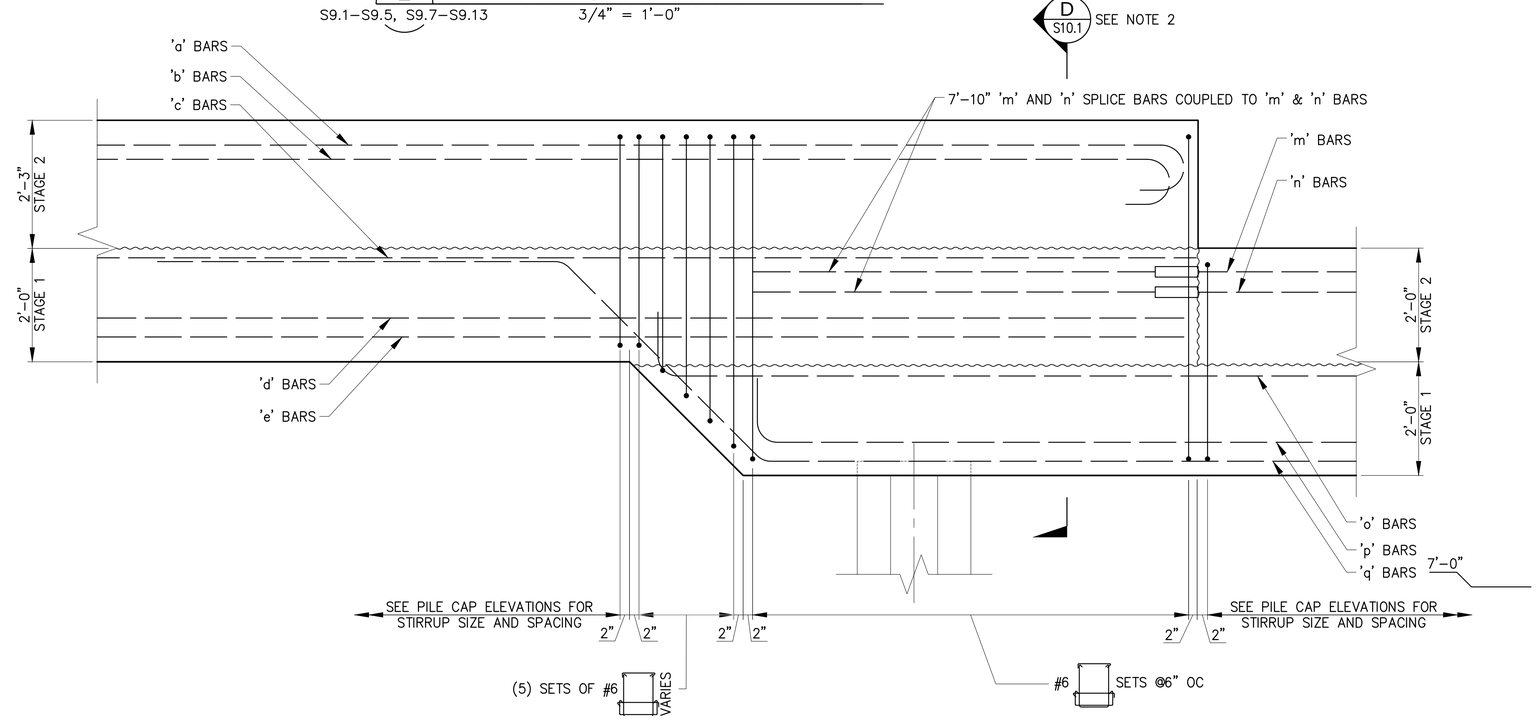
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.7



1 PILE CAP DETAIL

S9.1–S9.5, S9.7–S9.13 3/4" = 1'-0"



2 PILE CAP STEP DETAIL

S9.1, S9.3–S9.5, S9.7–S9.13, S10.1 3/4" = 1'-0"

NOTES:

1. AT BENT 1 SEE DETAIL D S10.6
   AT BENT 71 SEE DETAIL C S10.15
2. AT BENT 1 SEE DETAIL E S10.6
   AT BENT 71 SEE DETAIL D S10.15
3. REINFORCEMENT DETAILED SYMMETRIC ABOUT ℄ CRANE RAIL WHERE CRAN BEAM IS SYMMETRIC.
4. GREEN EPOXY COATED BARS PERMITTED FOR USE IN 'o', 'p', AND 'q' BARS AT BENT 15.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 PRINTED BY:
ONE SITCUM PLAZA PORT ADDRESS:
TACOMA, WA 98401-1837

APPROVED:
DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 8

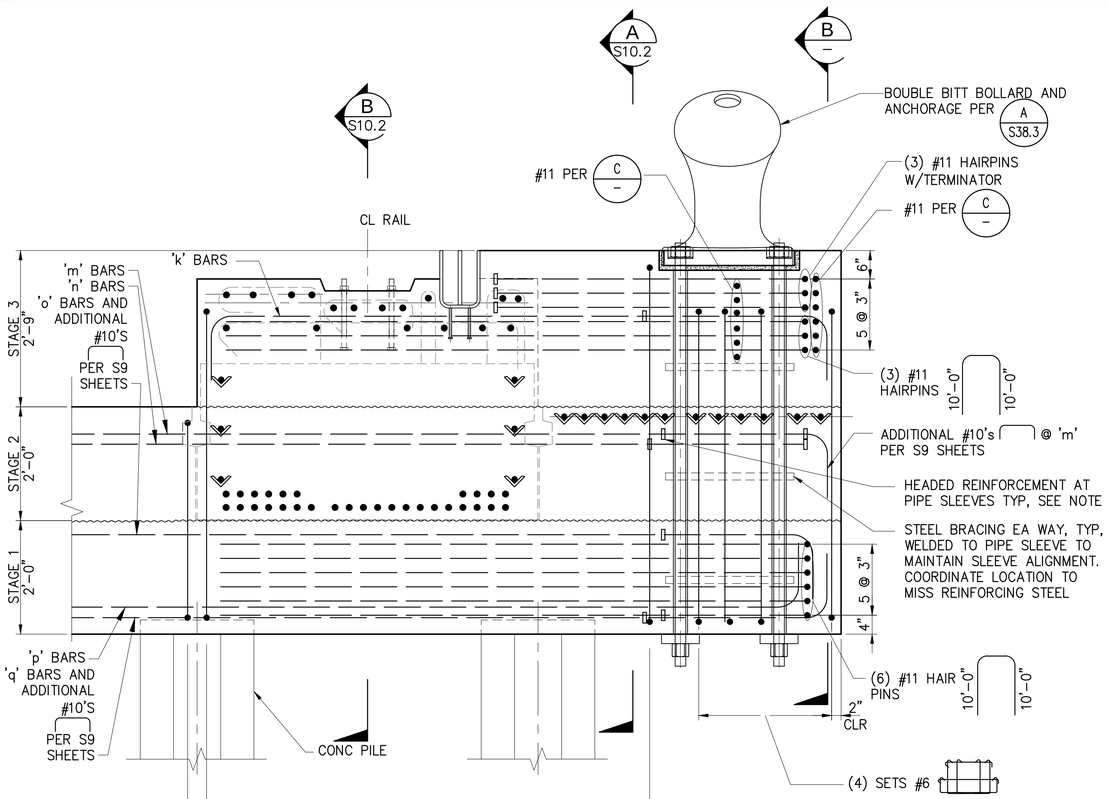
CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S10.8
SH 235 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

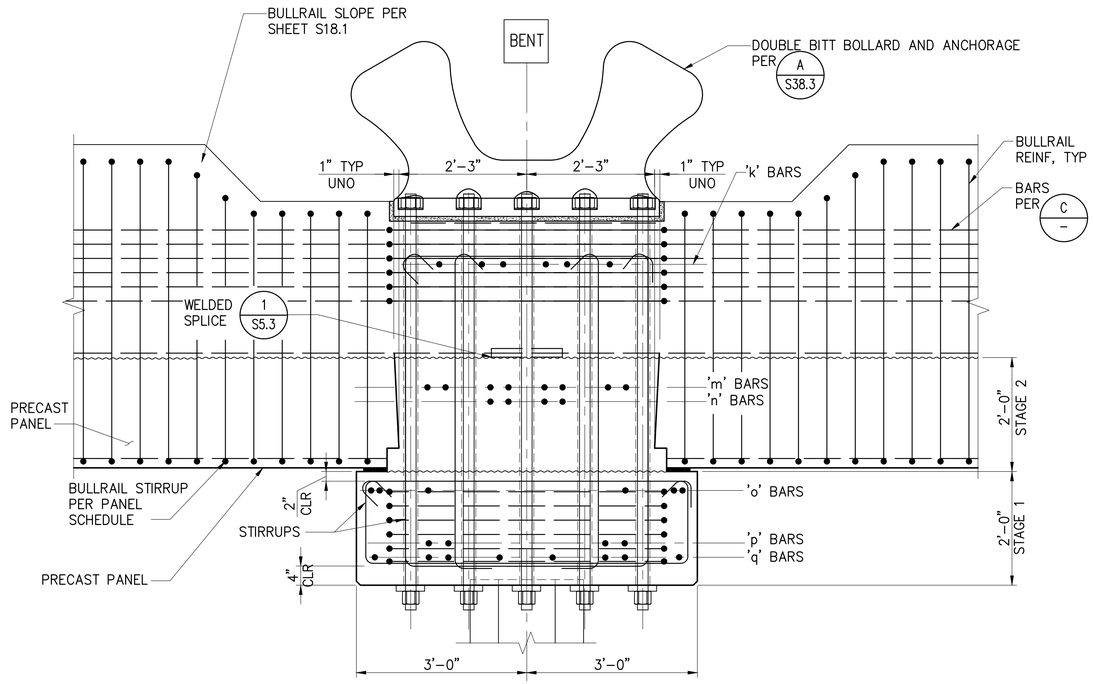
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.8



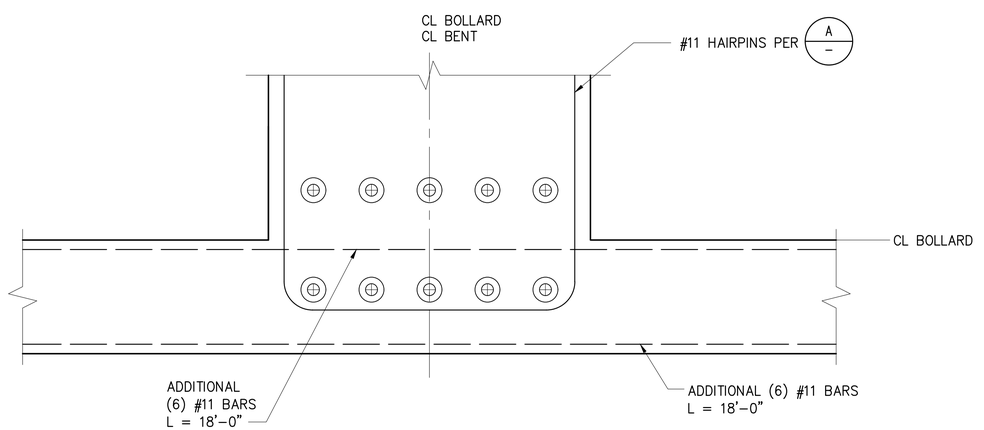
PILE CAP ELEVATION -200T DOUBLE BITT BOLLARD

A — S9.2 – S9.6, S9.8, S10.4, S38.3 — 3/4"=1'–0"



PILE CAP SECTION-200T DOUBLE BITT BOLLARD

B — S18.4 — 3/4"=1'–0"



PLAN - PILECAP 200T DOUBLE BITT BOLLARD

C — – — 3/4"=1'–0"

NOTES:

1. TERMINATE ALL LONGITUDINAL PILE CAP BARS THAT CONFLICT WITH BOLLARD PIPE SLEEVES WITH HEADED REINFORCEMENT

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.9

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

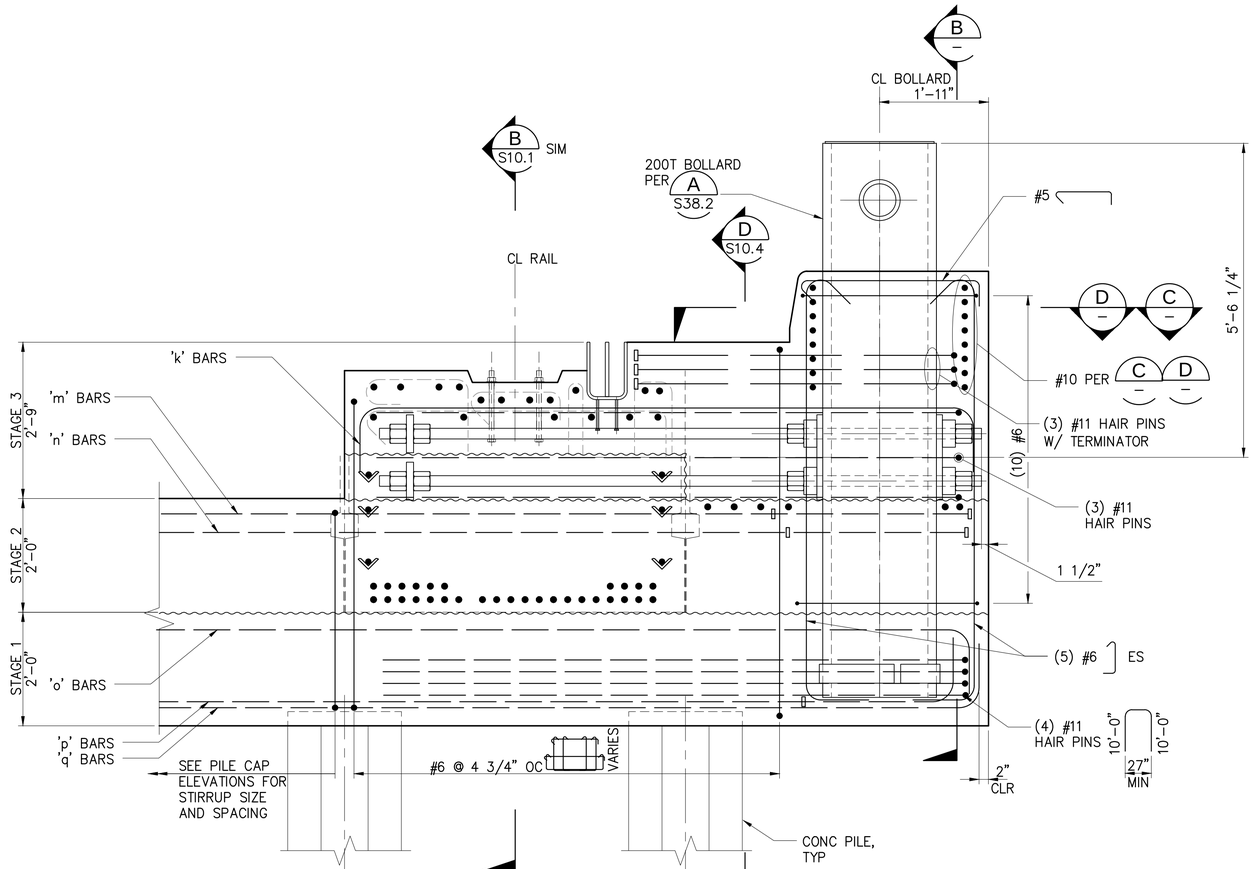
DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 9

6552
S10.9
SH 236 OF 499

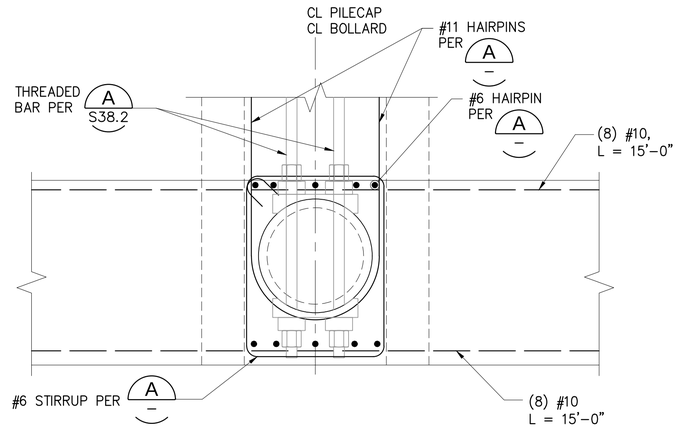
SEK CHECKED BY DATE			
TAH PROJ. ENGR DATE			
tlemons Jul 20, 2018			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837



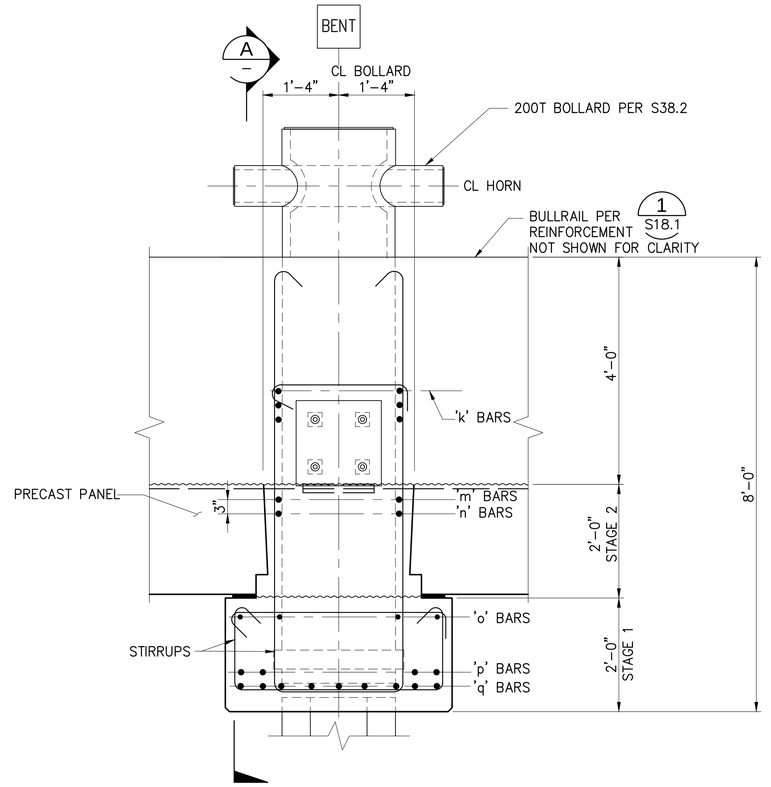
PILE CAP ELEVATION - 200T BOLLARD

A S9.12, S9.13 — 3/4"= 1'-0"



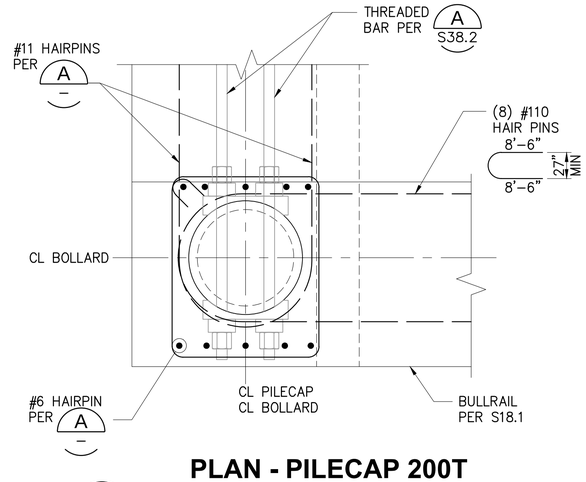
PLAN - PILECAP 200T BOLLARD AT GRID 69

C — 3/4"= 1'-0"



PILE CAP SECTION - 200T BOLLARD

B S18.2 — 3/4"=1'-0"



PLAN - PILECAP 200T BOLLARD AT GRID 71

D — 3/4"= 1'-0"

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

kpff — 2407 North 31st Street, Suite 100, Tacoma, Washington 98407, (253) 396-0150 Fax (253) 396-0162

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE	SEK CHECKED BY DATE		
PRINTED BY: tlemons Jul 20, 2018	TAH PROJ. ENGR DATE		
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			

CONT/CONS: 0701036	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PIER 4 PHASE 2 RECONFIGURATION

PILE CAP SECTIONS AND DETAILS - SHEET 10

6552

S10.10

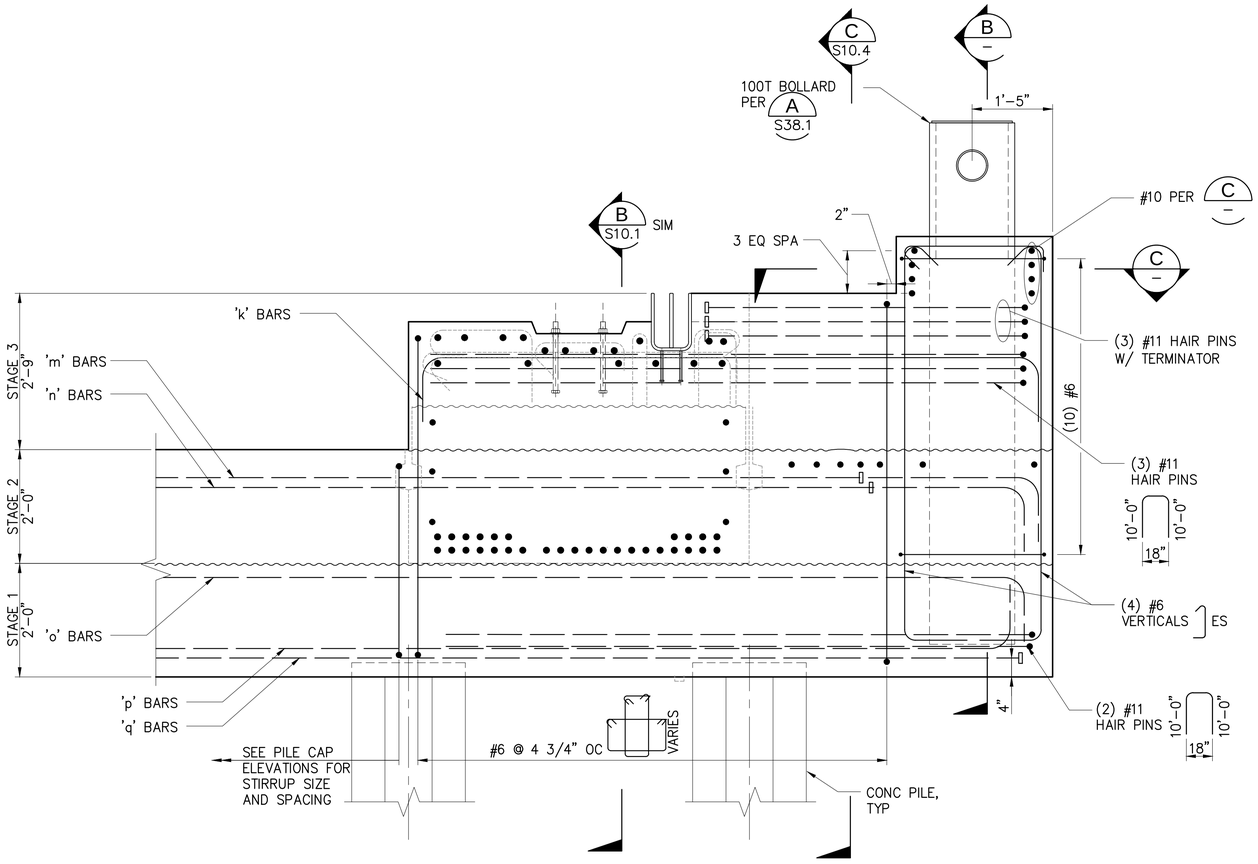
SH 237 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

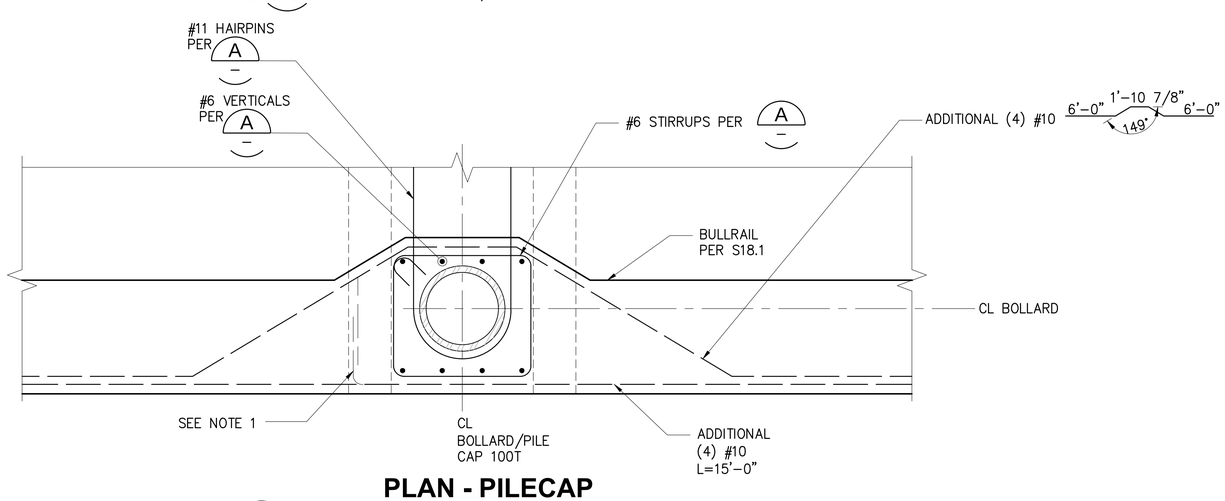
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.10

BINDING EDGE



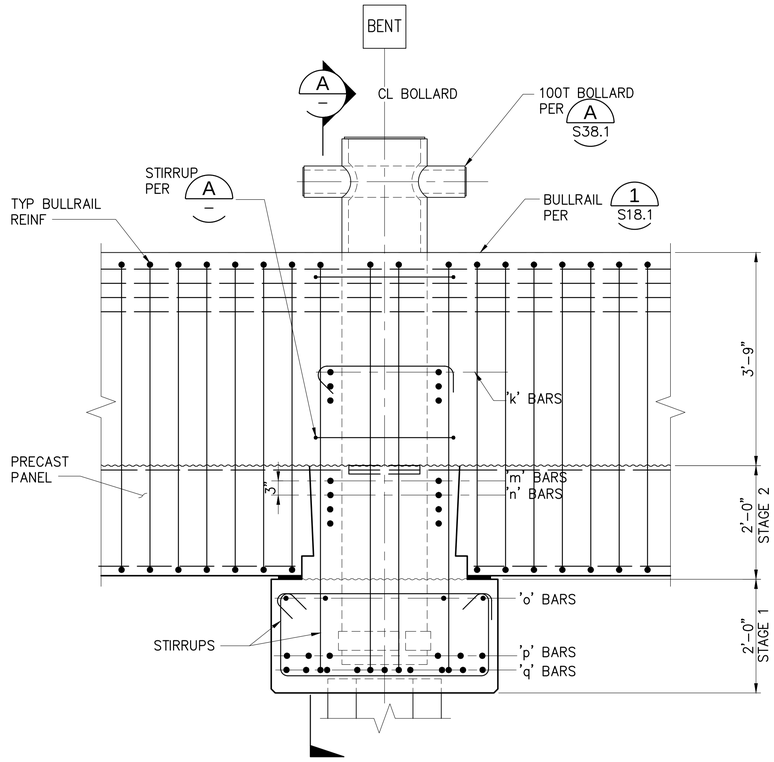
PILECAP ELEVATION- 100T BOLLARD

A S9.9–S9.11 3/4"=1'–0"



PLAN - PILECAP 100T BOLLARD

C 3/4"=1'–0"



PILECAP SECTION - 100T BOLLARD

B S18.2, S18.3 3/4"=1'–0"

NOTES:

1. AT BENT 39, BEND AND TERMINATE THE ADDITIONAL (4) #10 BARS WITH 6'–0" EXTENSIONS AS SHOWN, AND HOOK AND STAGGER THE (4) ADDITIONAL 15' #10 BARS AT THE EDGE OF THE BULL RAIL.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

	SEK	CHECKED BY	DATE
	TAH	PROJ. ENGR	DATE
DIRECTOR ENG. DATE:			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

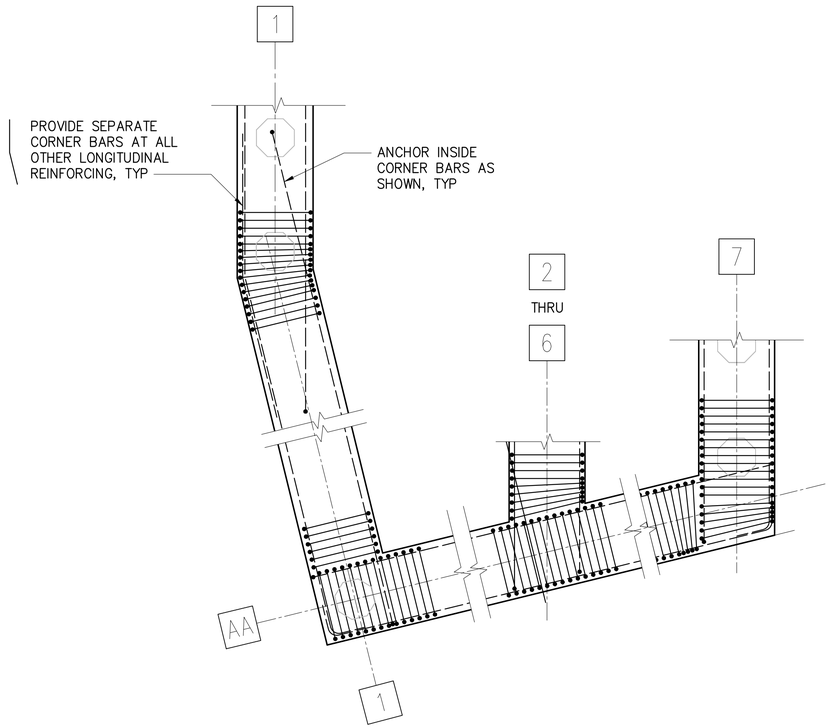
PIER 4 PHASE 2 RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 11

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

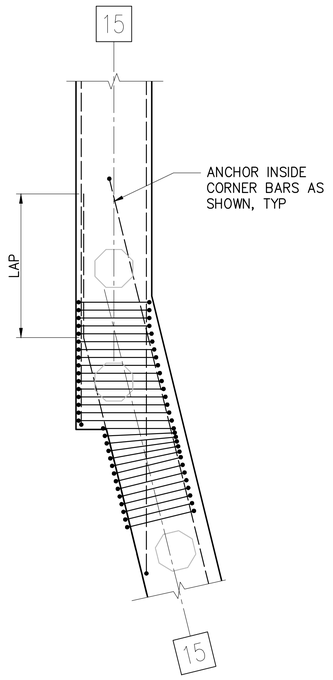
6552
S10.11
SH 238 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

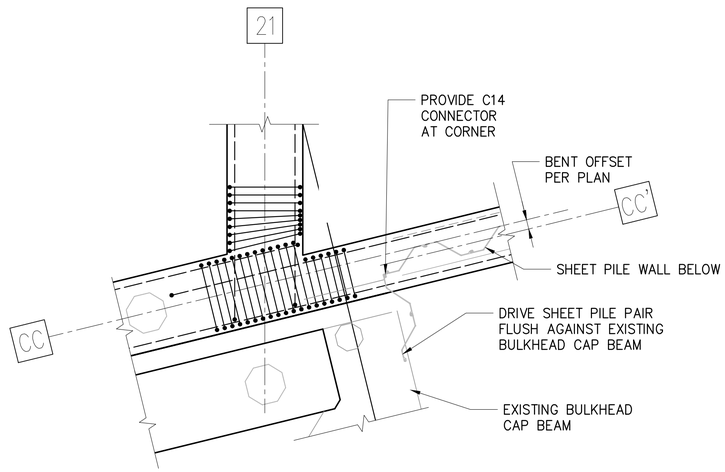
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.11



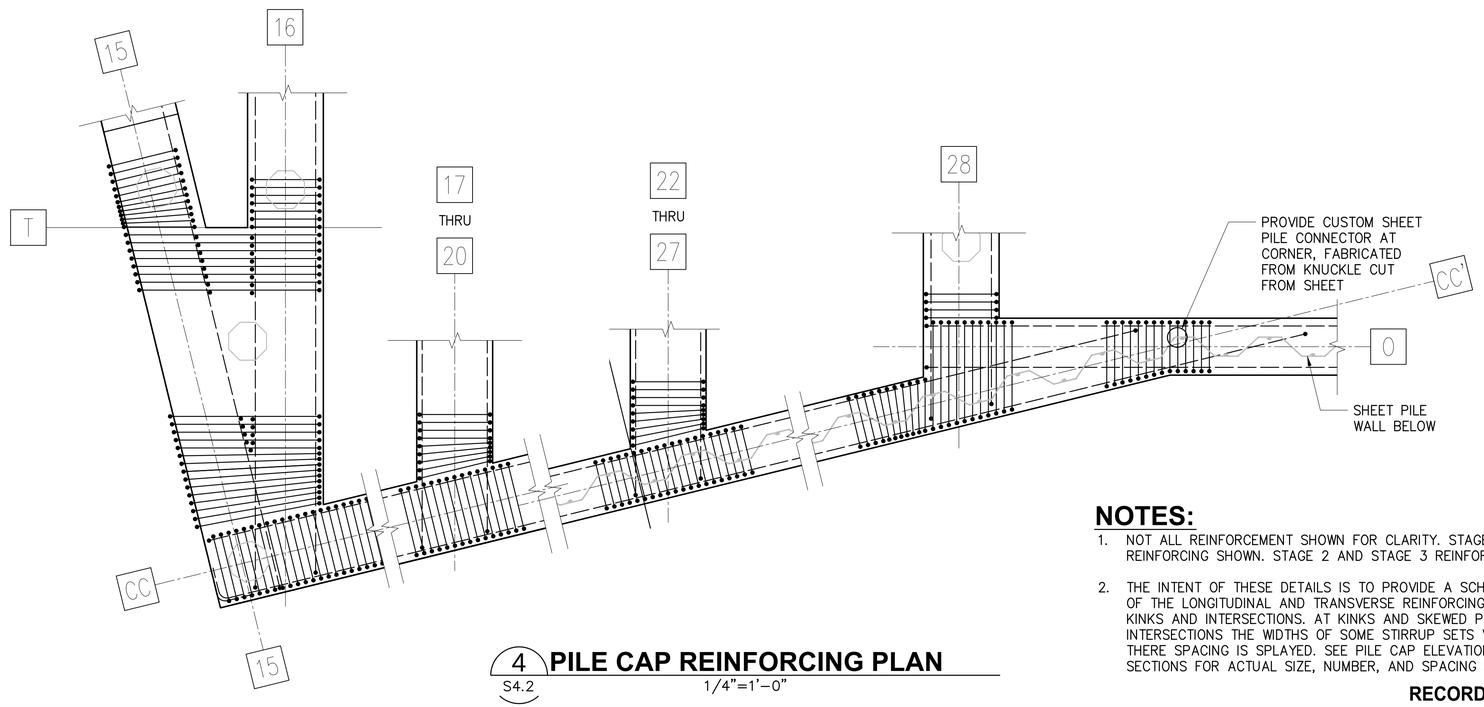
1 PILE CAP REINFORCING PLAN
S4.1 1/4"=1'-0"



2 PILE CAP REINFORCING PLAN
S4.2 1/4"=1'-0"



3 PILE CAP REINFORCING PLAN
S4.2 1/4"=1'-0"



4 PILE CAP REINFORCING PLAN
S4.2 1/4"=1'-0"

NOTES:

1. NOT ALL REINFORCEMENT SHOWN FOR CLARITY. STAGE 1 TOP REINFORCING SHOWN. STAGE 2 AND STAGE 3 REINFORCING SIMILAR.
2. THE INTENT OF THESE DETAILS IS TO PROVIDE A SCHEMATIC LAYOUT OF THE LONGITUDINAL AND TRANSVERSE REINFORCING AT PILE CAP KINKS AND INTERSECTIONS. AT KINKS AND SKEWED PILE CAP INTERSECTIONS THE WIDTHS OF SOME STIRRUP SETS VARIES AND THERE SPACING IS SPLAYED. SEE PILE CAP ELEVATIONS AND SECTIONS FOR ACTUAL SIZE, NUMBER, AND SPACING OF REINFORCING.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.12

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

APPROVED:

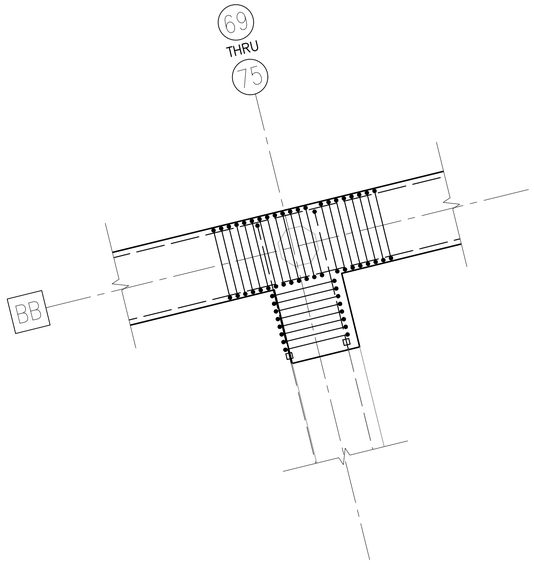
PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 12

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tlemons Jul 20, 2018
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA	
PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	

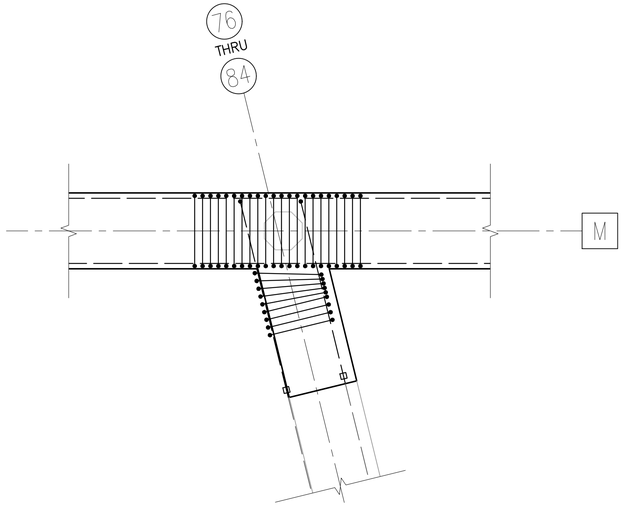
6552
S10.12
SH 239 OF 499

CONT/CONS:	0701136
M. ID:	091251
PHASE:	CONFORMED

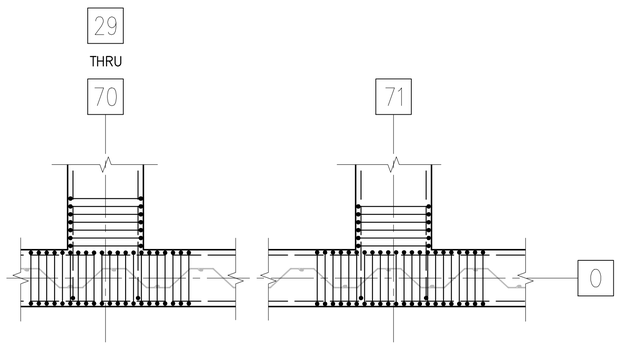
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 S4.1 **PILE CAP REINFORCING PLAN**
1/4"=1'-0"



2 S4.1 **PILE CAP REINFORCING PLAN**
1/4"=1'-0"



3 S4.3, S4.5 **PILE CAP REINFORCING PLAN**
1/4"=1'-0"

NOTES:

1. NOT ALL REINFORCEMENT SHOWN FOR CLARITY. STAGE 1 TOP REINFORCING SHOWN. STAGE 2 AND STAGE 3 REINFORCING SIMILAR.
2. THE INTENT OF THESE DETAILS IS TO PROVIDE A SCHEMATIC LAYOUT OF THE LONGITUDINAL AND TRANSVERSE REINFORCING AT PILE CAP KINKS AND INTERSECTIONS. AT KINKS AND SKEWED PILE CAP INTERSECTIONS THE WIDTHS OF SOME STIRRUP SETS VARIES AND THERE SPACING IS SPLAYED. SEE PILE CAP ELEVATIONS AND SECTIONS FOR ACTUAL SIZE, NUMBER, AND SPACING OF REINFORCING.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.13

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 13

6552
S10.13
SH 240 OF 499

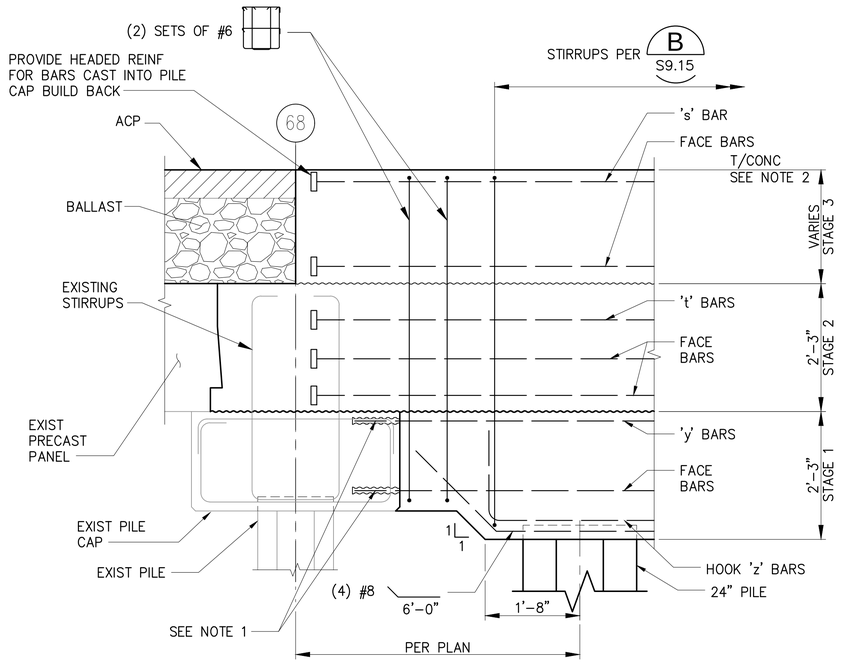
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

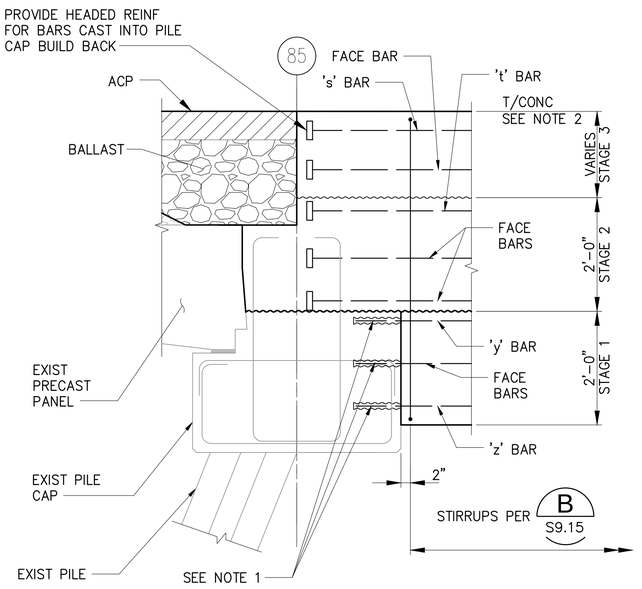
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



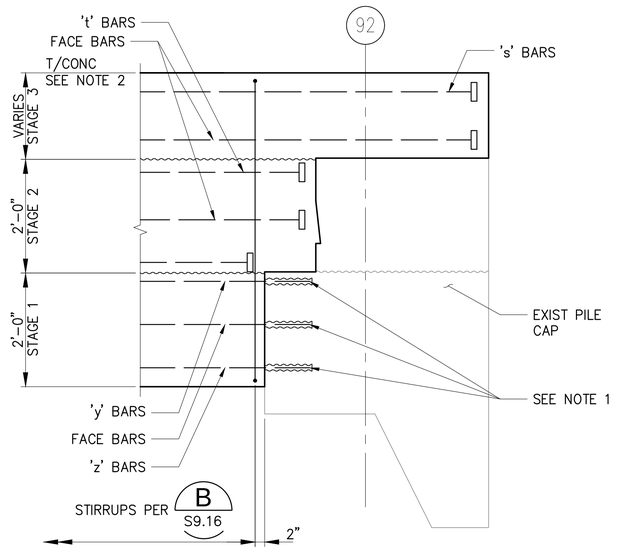
1 S9.15 **EXISTING PILE CAP**

3/4"=1'-0"



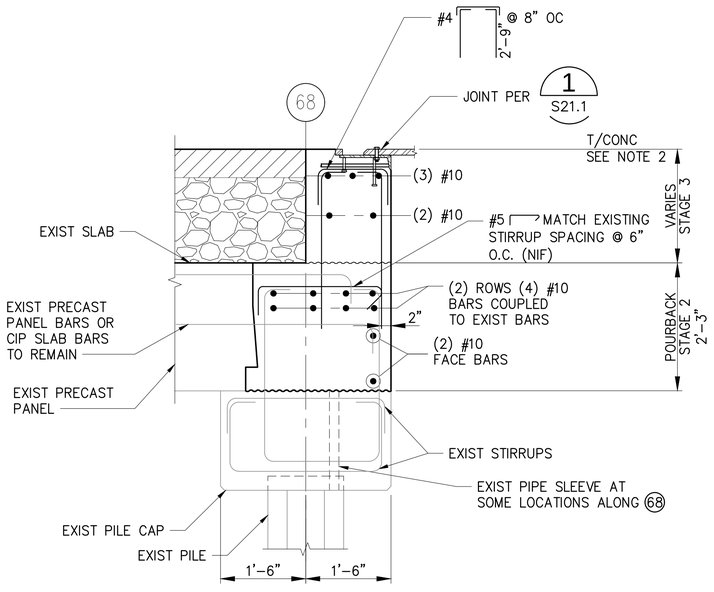
2 S9.16 **EXISTING PILE CAP**

3/4"=1'-0"



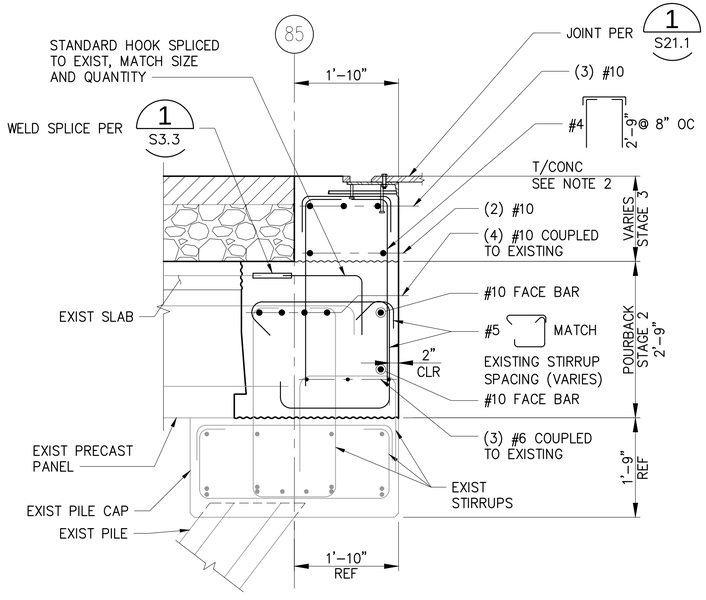
3 S9.16 **EXISTING PILE CAP**

3/4"=1'-0"



A – **EXISTING PILE CAP BUILD BACK**

3/4"=1'-0"



B – **EXISTING PILE CAP BUILD BACK**

3/4"=1'-0"

NOTE:

1. DRILL AND EPOXY BAR 7" INTO EXISTING PILE CAP WITH HILTI RE 500 OR APPROVED EQUAL PER MANUFACTURER SPECIFICATIONS CONTRACTOR SHALL USE ROTO HAMMER TYPE DRILL TO PREVENT DAMAGE TO EXISTING REINFORCING.
2. T/CONC = TOP OF ASPHALT PER GRADING AND PAVING PLAN C4.1

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	DIRECTOR ENG.	DATE	
tlemons Jul 20, 2018	PRINTED BY:	PROJ. ENGR	DATE
ONE SITCUM PLAZA	PORT ADDRESS:		
TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED		

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION

PILE CAP SECTIONS AND DETAILS - SHEET 14

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552

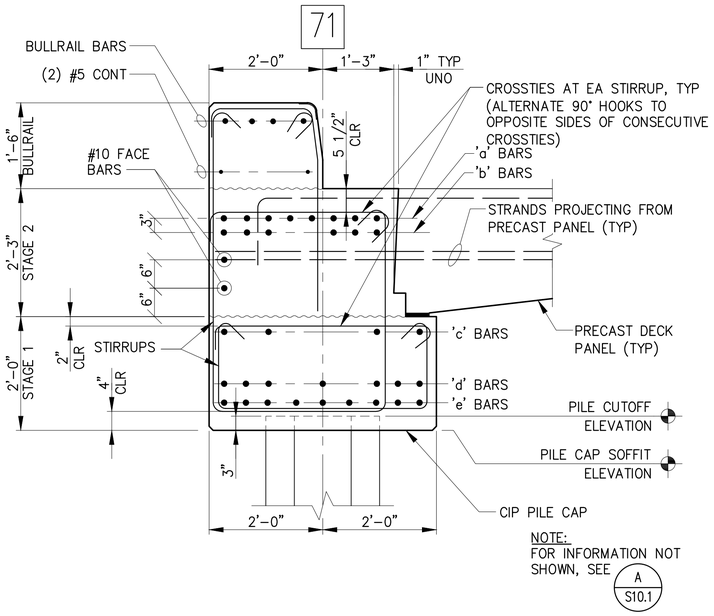
S10.14

SH 241 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

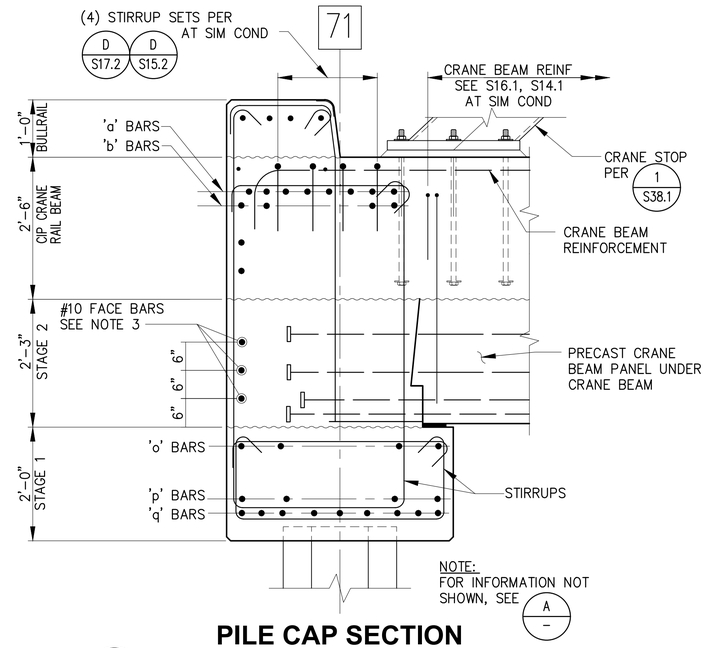
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1141096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.14



A TYPICAL PILE CAP SECTION

A S9.13 — 3/4"=1'-0"

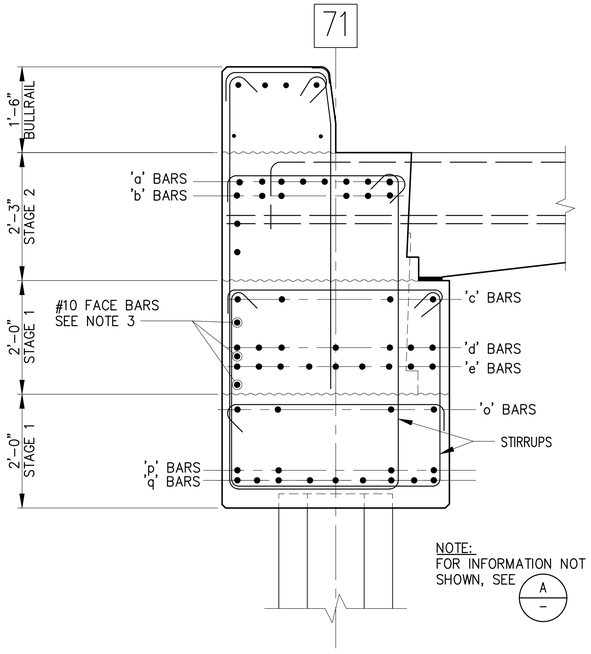


B PILE CAP SECTION AT CRANE STOP

B S9.13 — 3/4"=1'-0"

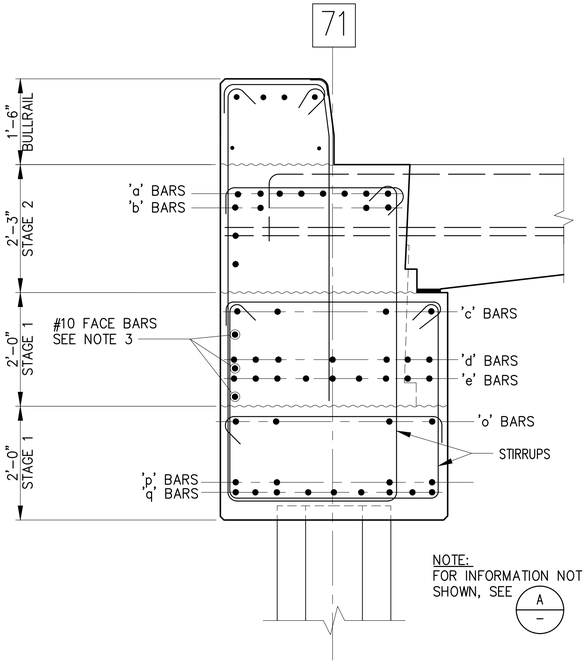
NOTES:

1. TERMINATE FOUR 'q' BARS AT WATERSIDE FACE OF WITH 90° HOOKS.
2. TERMINATE EACH SIDE OF 'o' BARS WITH 90° HOOK.
3. #10 FACE BARS 16'-0" AT LANDSIDE CRANE BEAM, 22'-0" AT WATERSIDE



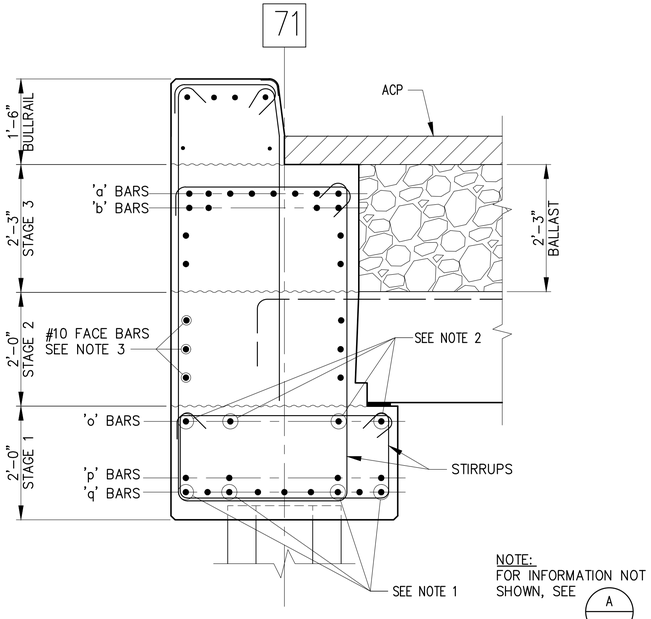
C PILE CAP SECTION AT LANDSIDE DROP DOWN

C S9.13 — 3/4"=1'-0"



D PILE CAP SECTION AT WATERSIDE DROP DOWN

D S10.8 — 3/4"=1'-0"



E PILE CAP SECTION AT UTILITY TRENCH

E S9.13 — 3/4"=1'-0"

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP SECTIONS AND DETAILS - SHEET 15

DIRECTOR ENG.	DATE	SEK CHECKED BY	DATE
PRINTED BY: tlemons Jul 20, 2018		TAH PROJ. ENGR	DATE
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

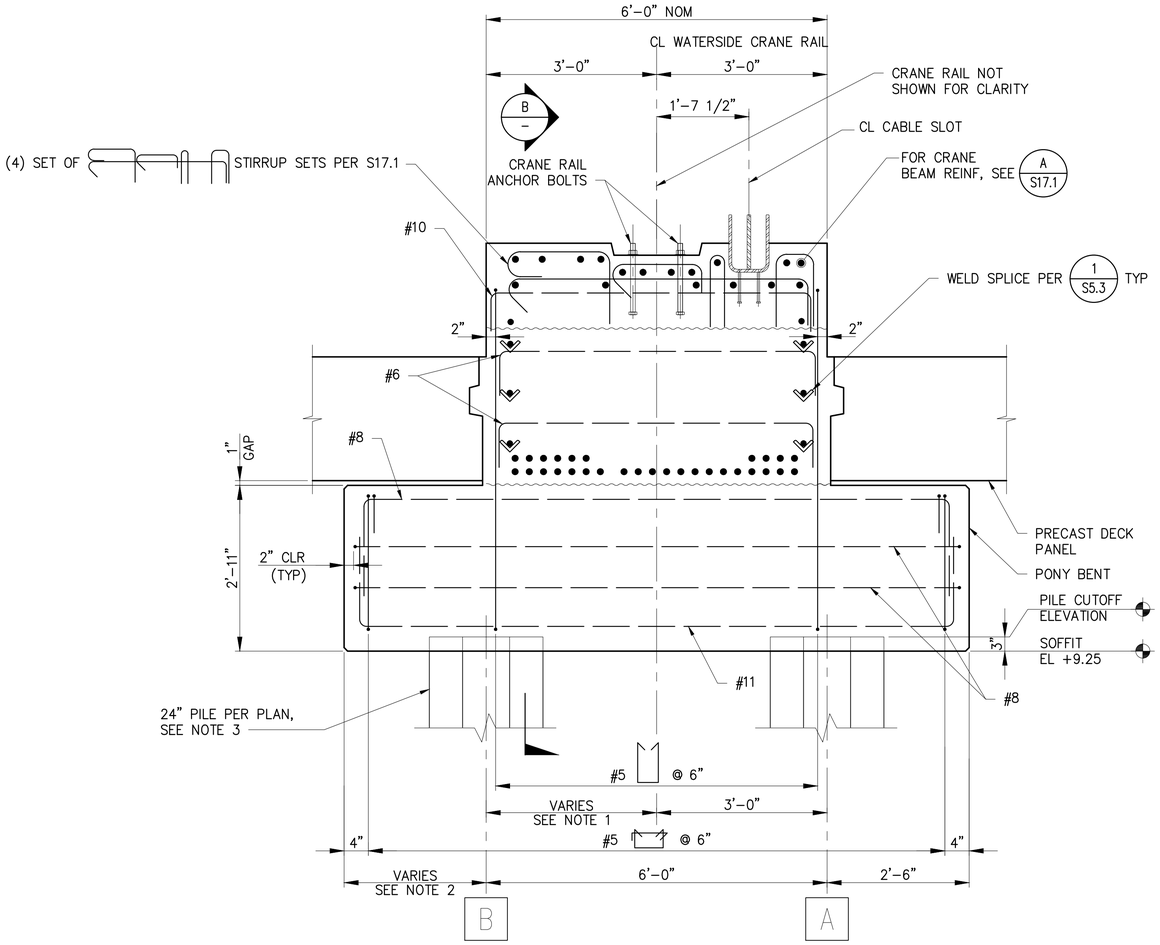
6552
S10.15
SH 242 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S10.15

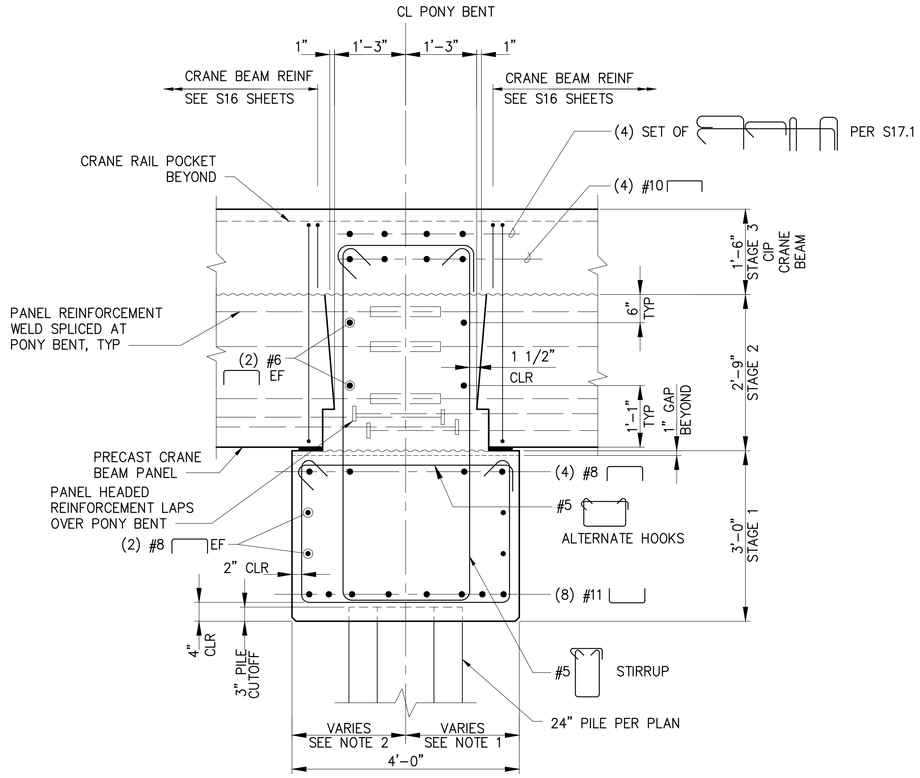
BINDING EDGE



A ELEVATION - WATERSIDE PONY BENT

S4.1–S4.5, S16.1–S16.4 — 3/4"=1'-0"

NOTES:
1. 3'-0" TYP. 5'-6" AT BENTS 19.5, 30.5 AND 60.5. 5'-1" AT BENT 70.5.
2. 2'-6" TYP. 4'-0" AT BENTS 19.5 AND 70.5. 5'-0" AT BENTS 30.5 AND 60.5.
3. AT BENTS 30.5 AND 60.5 NEW BATTERED PILE PER PLAN, EXISTING MISDRIVEN PILE CUT AT MUDLINE OR EXTRACTED.



B SECTION - PONY BENT

– — 3/4"=1'-0"

NOTES:
1. 2'-0" TYP. 2'-6" AT BENTS 15.5, 40.5, 42.5, 55.5, 57.5, 63.5 AND 70.5. 2'-7" AT BENT 18.5.
2. 2'-0" TYP. 2'-6" AT BENT 29.5.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DRAWN BY DATE
ONE SITCUM PLAZA TACOMA, WA 98401-1837

APPROVED:

DIRECTOR ENG. DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

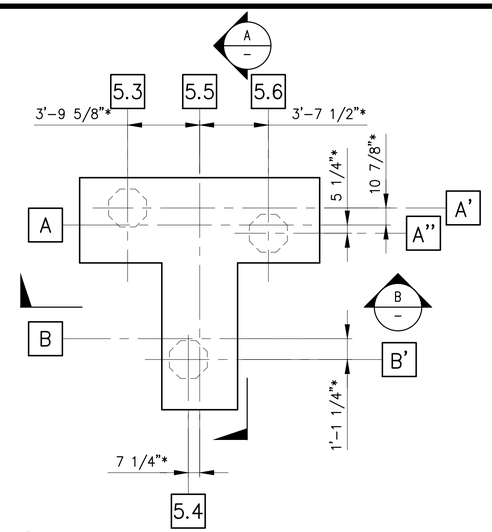
PIER 4 PHASE 2 RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091251	DAT–HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:					

6552
S11.1
SH 243 OF 499

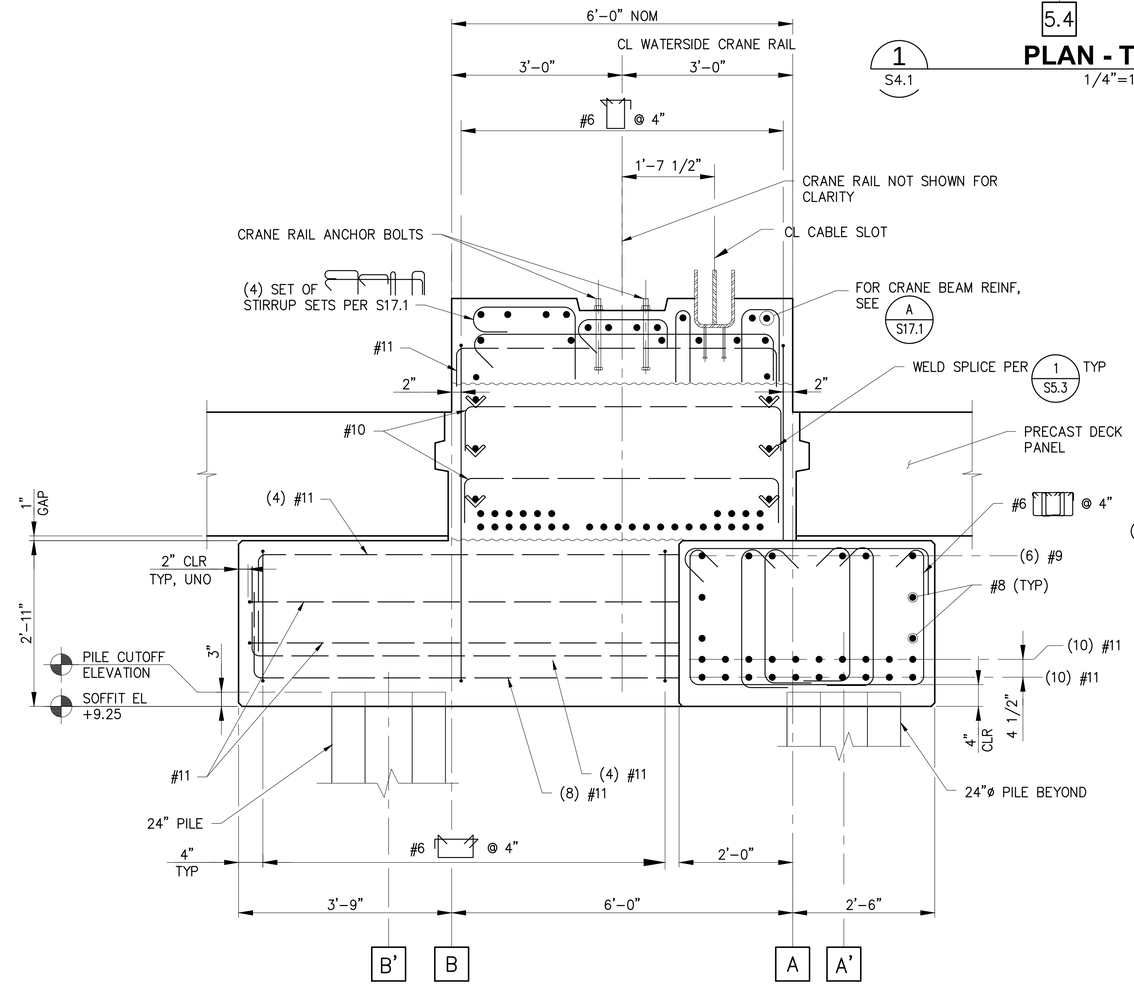
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.1



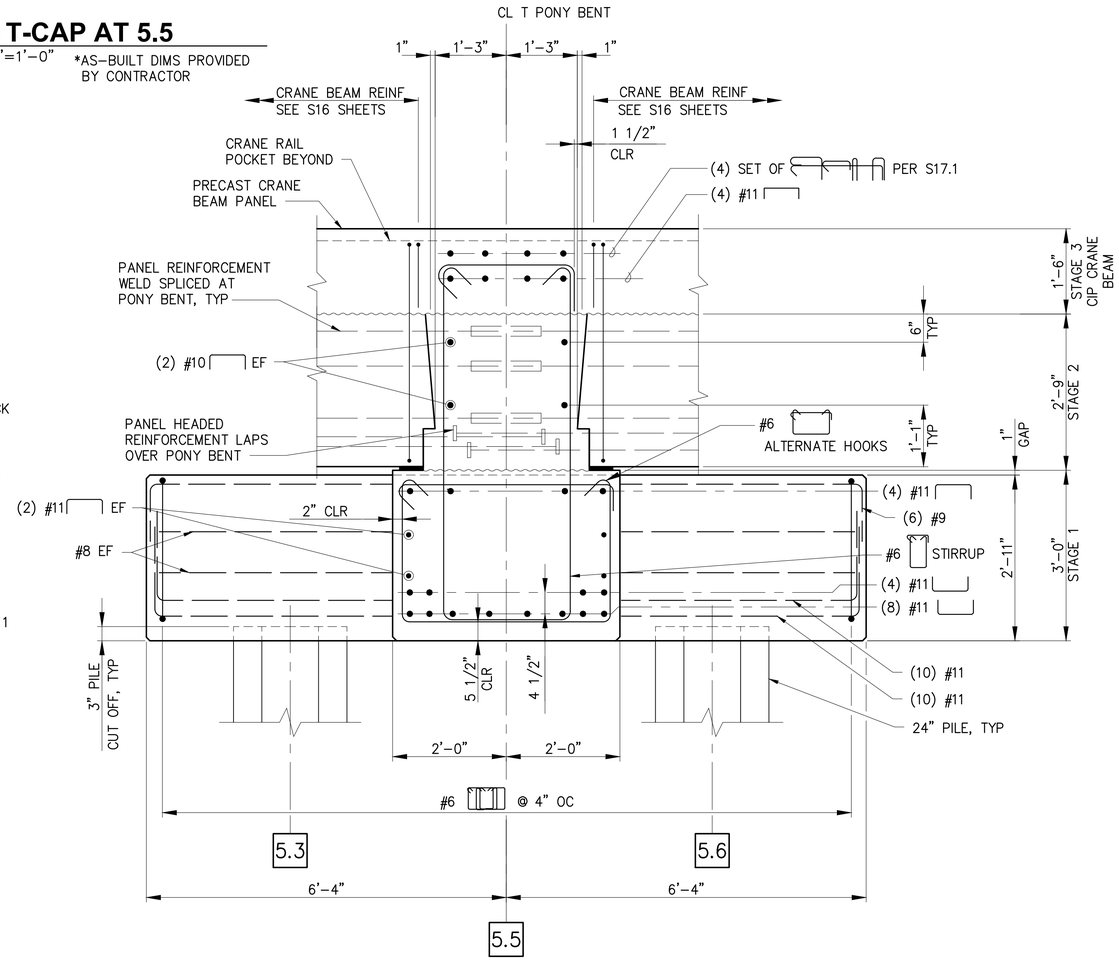
1 S4.1 **PLAN - T-CAP AT 5.5**

1/4"=1'-0" *AS-BUILT DIMS PROVIDED BY CONTRACTOR



A – **SECTION - T-CAP AT 5.5**

3/4"=1'-0"



B – **SECTION - T-CAP AT 5.5**

3/4"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	1/30/17

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE

CHECKED BY	SEK
DRAWN BY	TAH
PROJ. ENGR	
PRINTED BY:	tiemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837
DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS
T-CAP AT 5.5

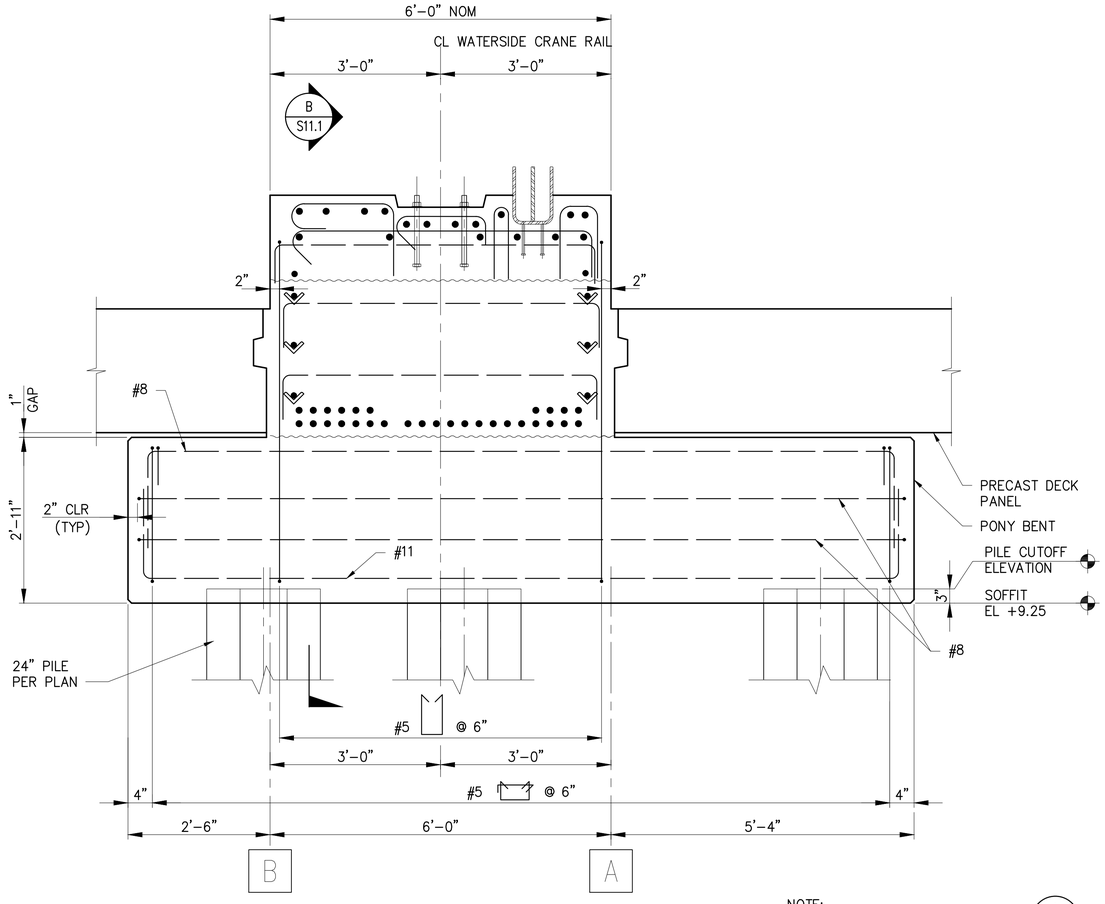
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION: 27

6552
S11.1A
SH 243 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.1A



NOTE:
FOR INFORMATION NOT SHOWN, SEE A S11.1

ELEVATION - WATERSIDE PONY BENT AT 8.5

A S4.1

3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.1B

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	2/15/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
		SEK	
PROJ. ENGR	DATE	DRAWN BY	
TAH			

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION: 27

PIER 4 PHASE 2 RECONFIGURATION

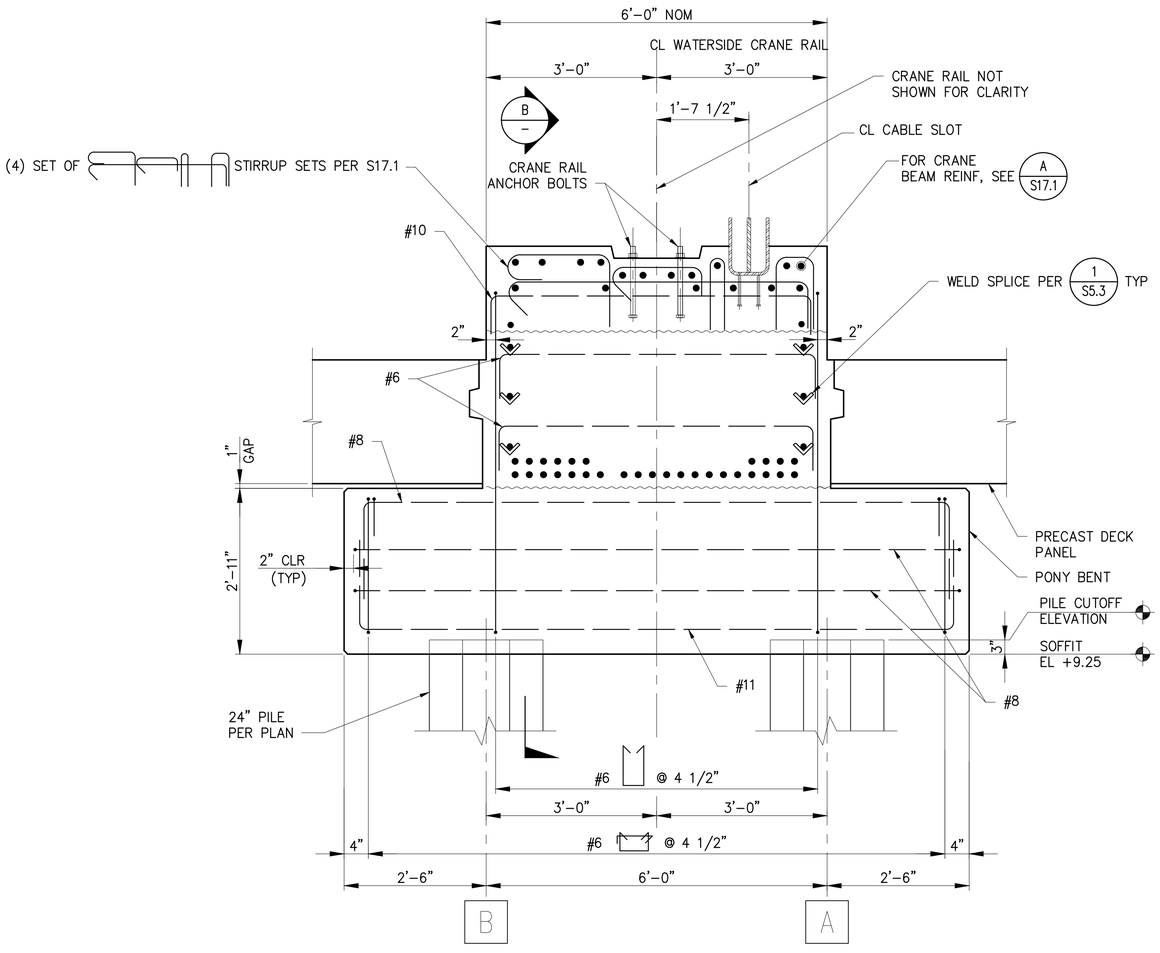
PONY BENT ELEVATIONS AND SECTIONS - SHEET 1

6552

S11.1B

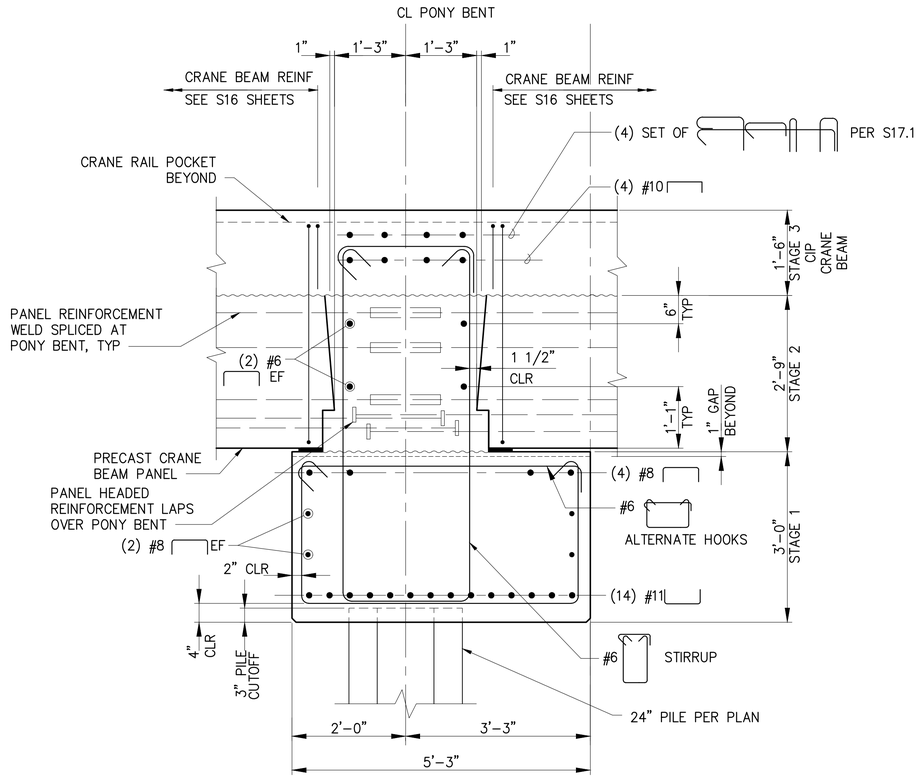
SH 243 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



ELEVATION - WATERSIDE PONY BENT AT 58.5 AND 59.5

A — S4.1–S4.5, S16.1–S16.4 — 3/4"=1'-0"



SECTION - PONY BENT

B — – — 3/4"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.1C

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

APPROVED:

DIRECTOR ENG.: DATE	CHECKED BY: SEK DATE
PRINTED BY: tlemons Jul 20, 2018	PROJ. ENGR: TAH DATE
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	

PIER 4 PHASE 2 RECONFIGURATION

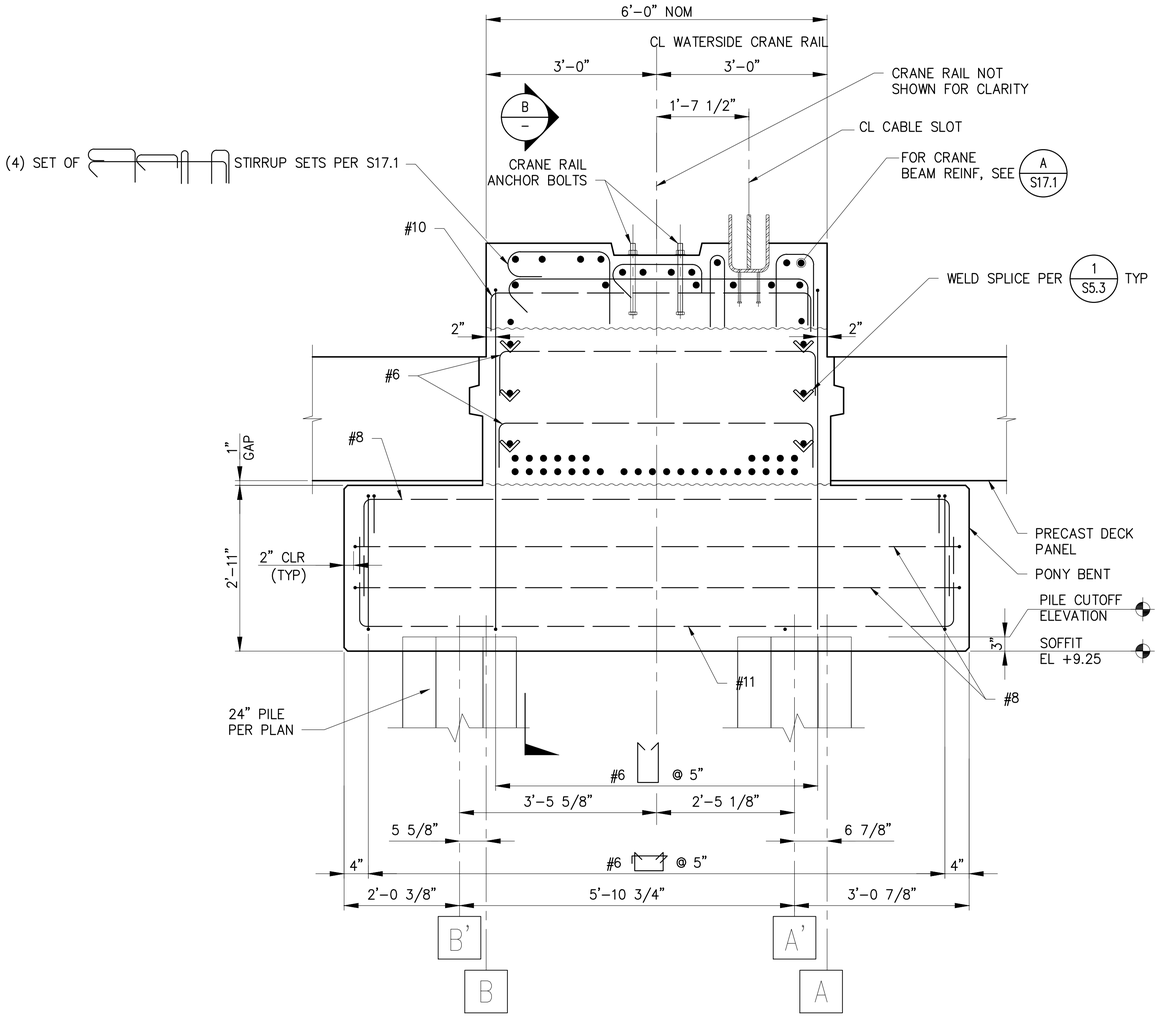
PONY BENT ELEVATIONS AND SECTIONS - AT BENTS 58.5 AND 59.5

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552

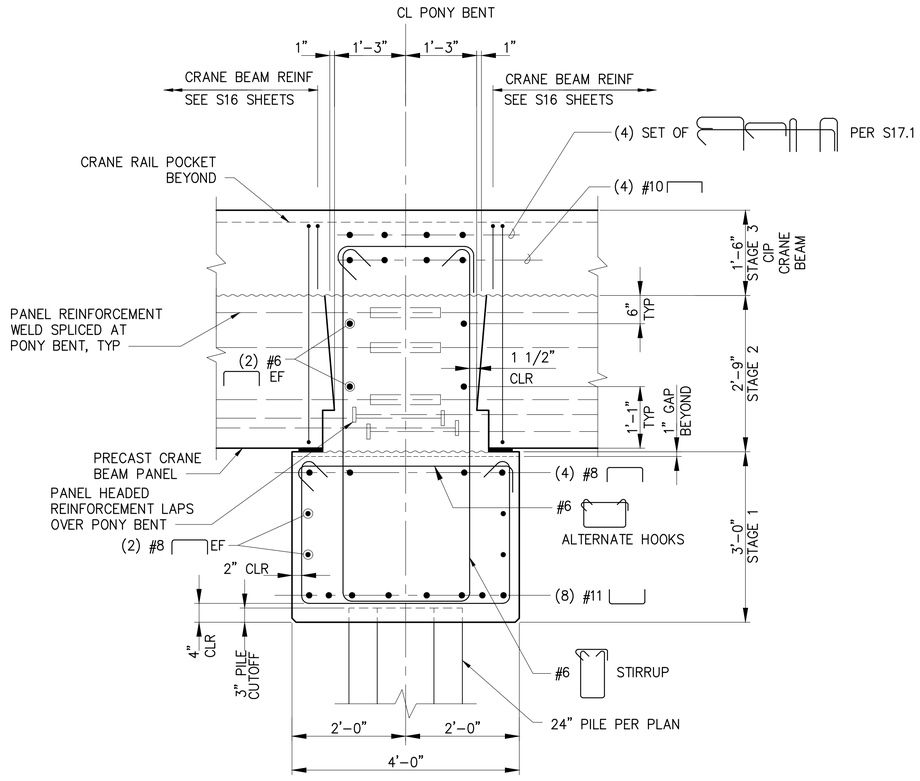
S11.1C

SH 243 OF 499



ELEVATION - WATERSIDE PONY BENT AT 33.5

A — S4.1–S4.5, S16.1–S16.4 — 3/4"=1'–0"



SECTION - PONY BENT

B — – — 3/4"=1'–0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.1D

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
tlemons	Jul 20, 2018		

DIRECTOR ENG.	DATE		
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

APPROVED:

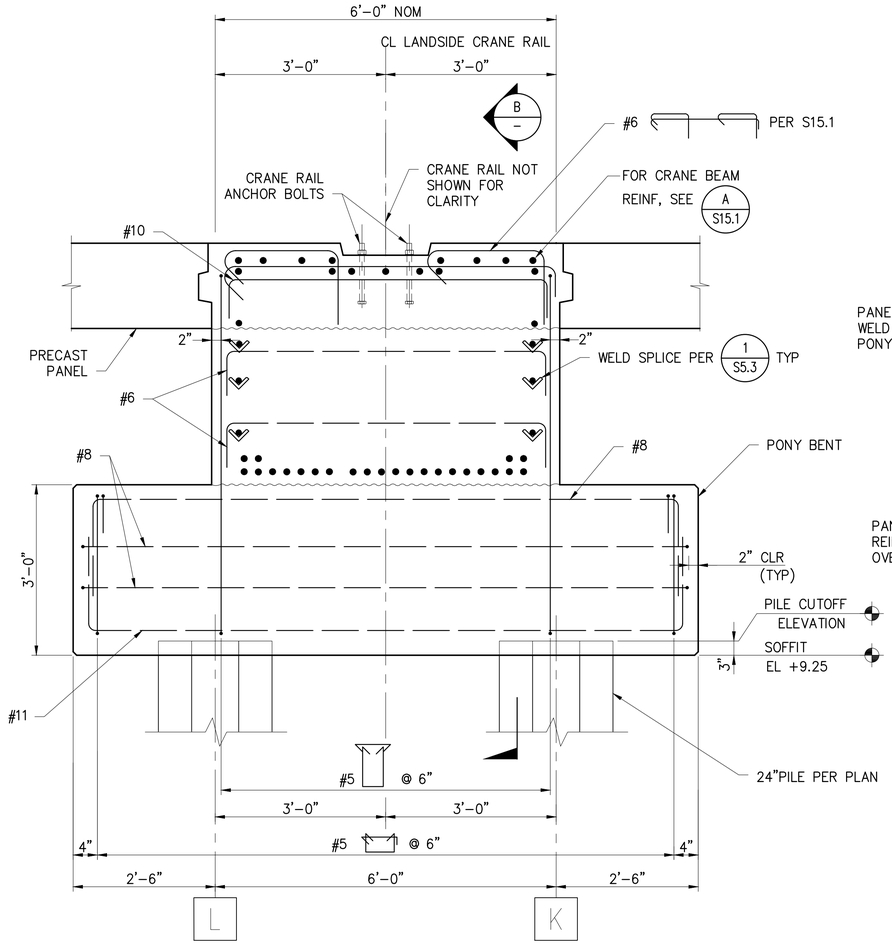
PIER 4 PHASE 2
RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS - AT BENT 33.5

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S11.1D
SH 243 OF 499

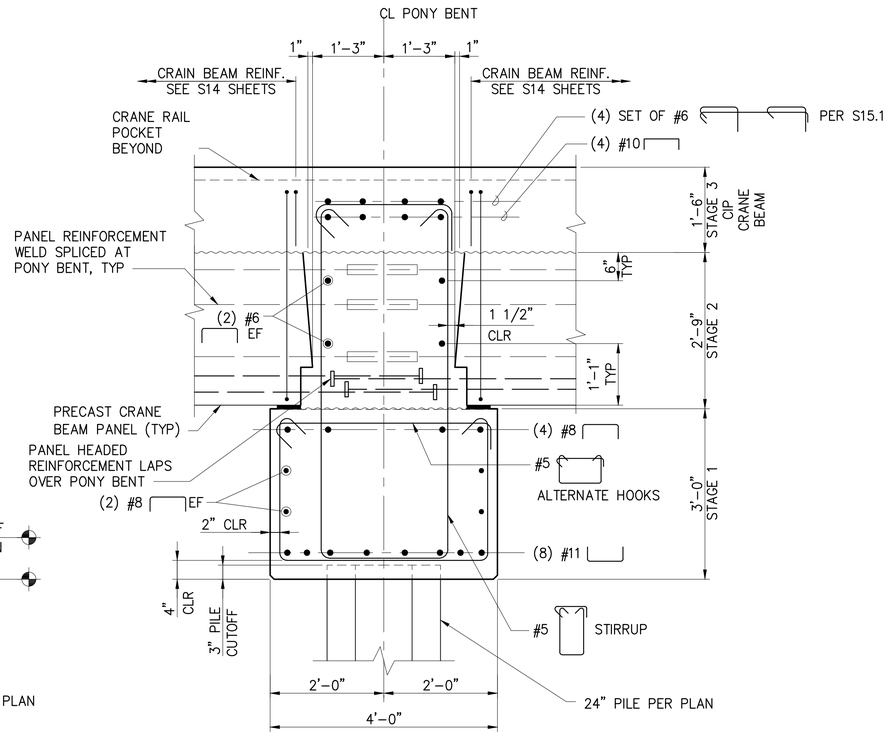
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



ELEVATION - LANDSIDE PONY BENT

A
S4.1–S4.5, S14.1–S14.3

3/4"=1'-0"



SECTION - PONY BENT

B
–

3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	
	CHECKED BY	DATE
	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE
PRINTED BY: tlemons	Jul 20, 2018	
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA, WA 98401-1837		

APPROVED:

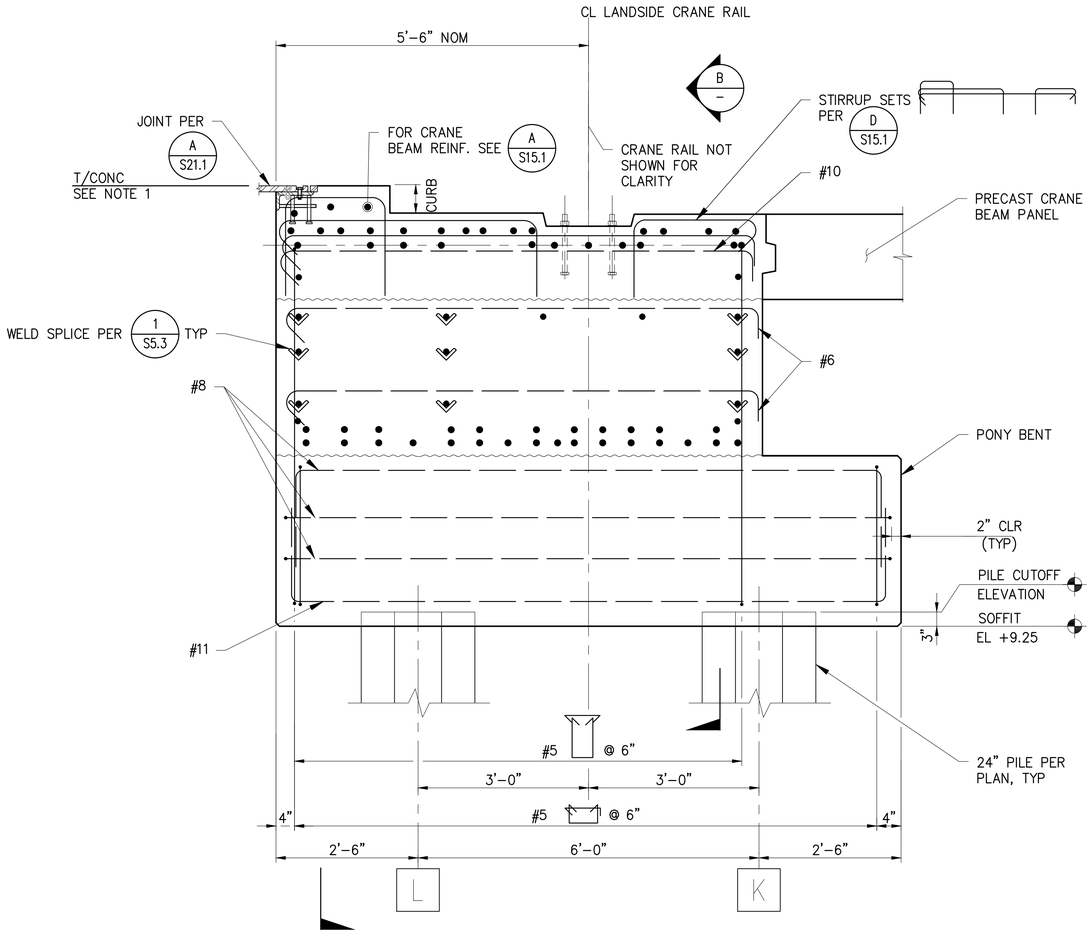
PIER 4 PHASE 2
RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS - SHEET 2

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S11.2
SH 244 OF 499

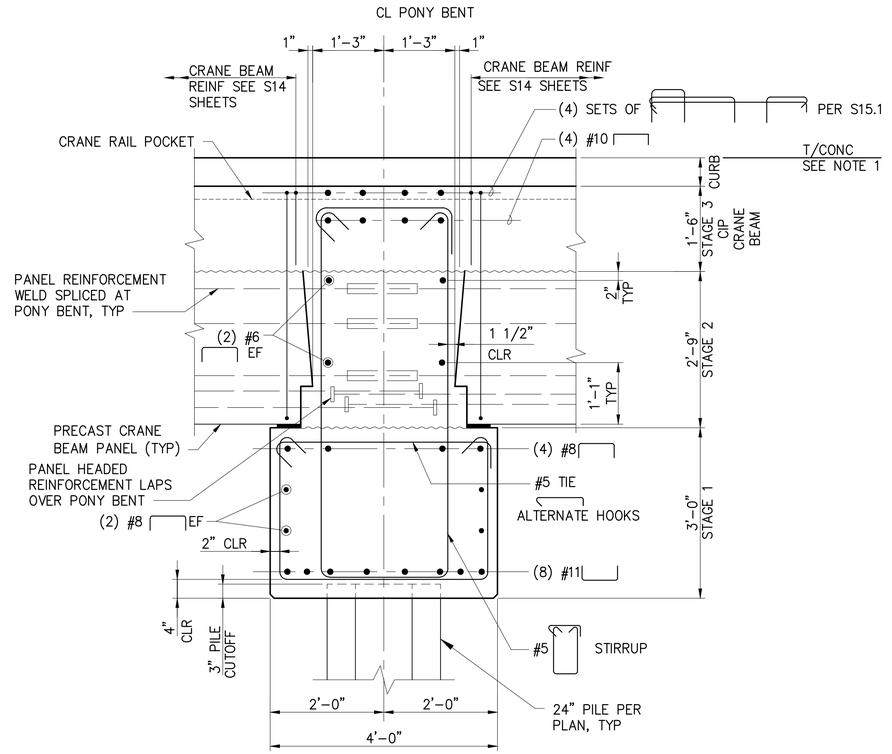
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



A S4.1, S4.2 **ELEVATION - LANDSIDE PONY BENT**

3/4"=1'-0"



B – **SECTION - PONY BENT**

3/4"=1'-0"

NOTES:

1. T/CONC = TOP OF ASPHALT PER GRADING AND PAVING PLAN C4.1

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.3

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK CHECKED BY DATE

TAH PROJ. ENGR DATE

tlemons Jul 20, 2018 PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

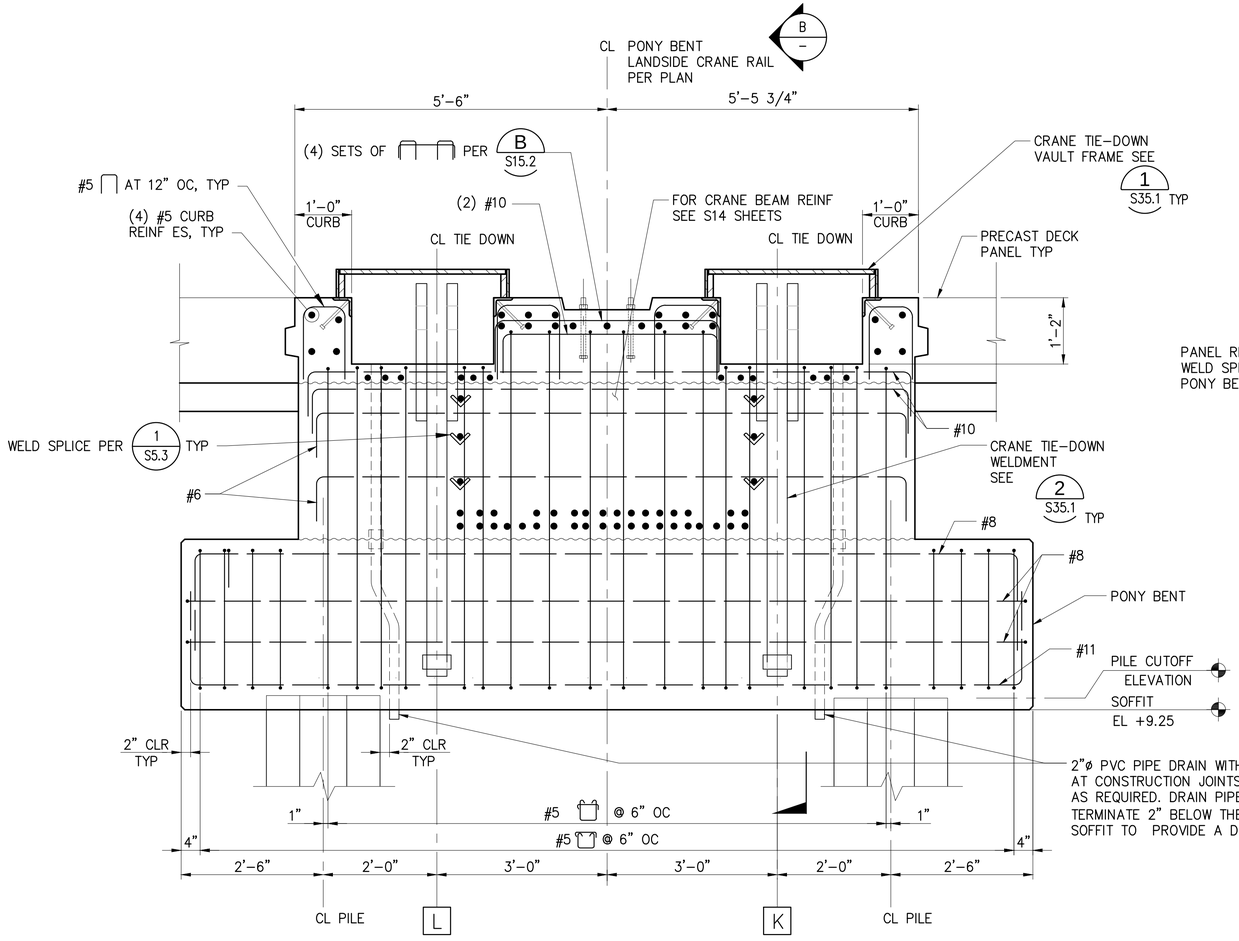
PONY BENT ELEVATIONS AND SECTIONS - SHEET 3

6552 S11.3 SH 245 OF 499

CONT/CONS: 070136	TOWNSHIP: 27N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

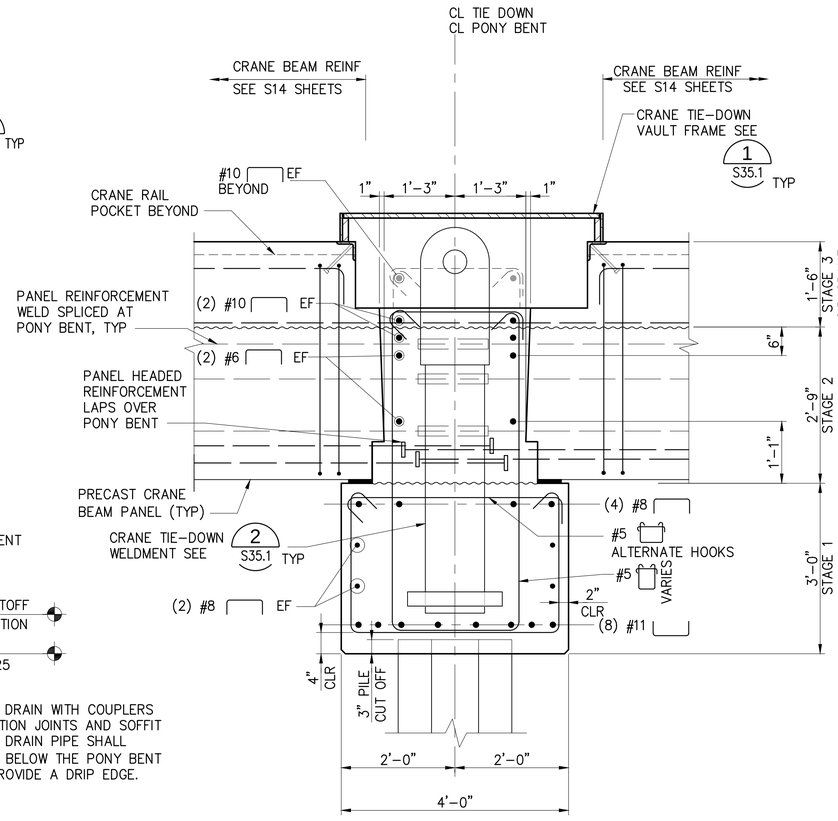
BINDING EDGE



ELEVATION -LANDSIDE PONY BENT AT TIE DOWN

A
S4.2–S4.5, S14.1, S15.2

3/4"=1'–0"



SECTION - PONY BENT

B
–

3/4"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

DESIGNED BY:	SEK	CHECKED BY:	DATE
DRAWN BY:	TAH	CHECKED BY:	DATE
DIRECTOR ENG.:		DATE	
PRINTED BY:	tlemons	Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS - SHEET 4

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

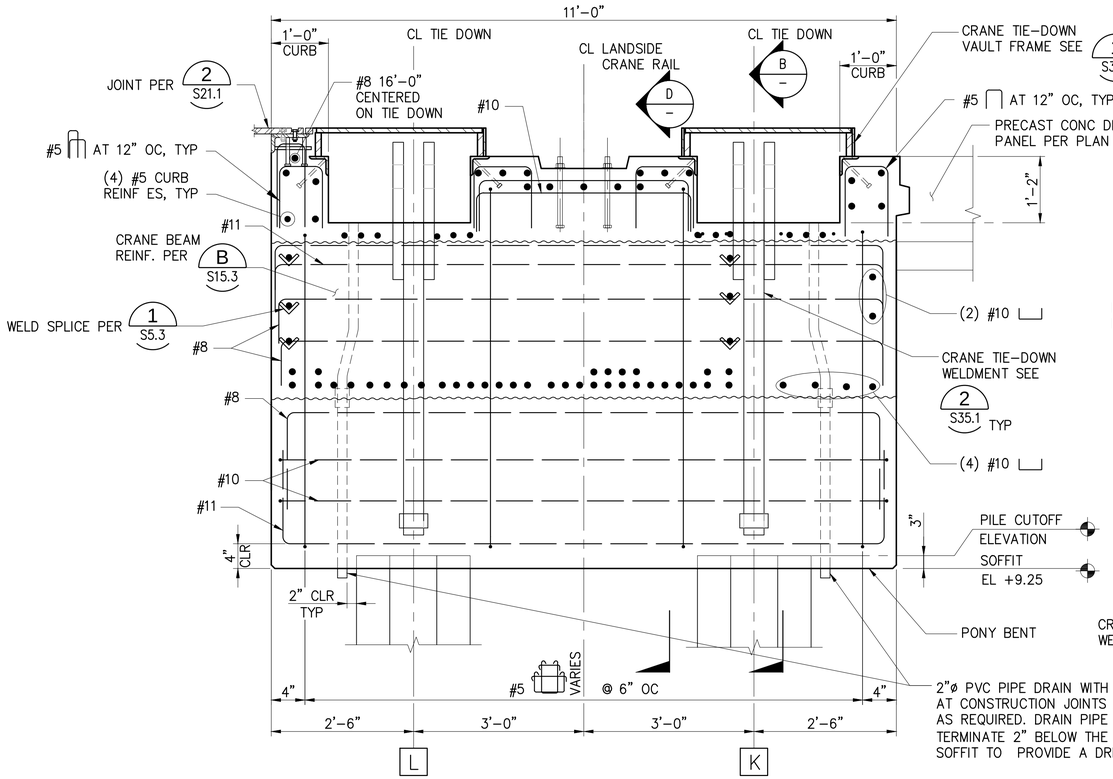
SECTION: 27

6552
S11.4
SH 246 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

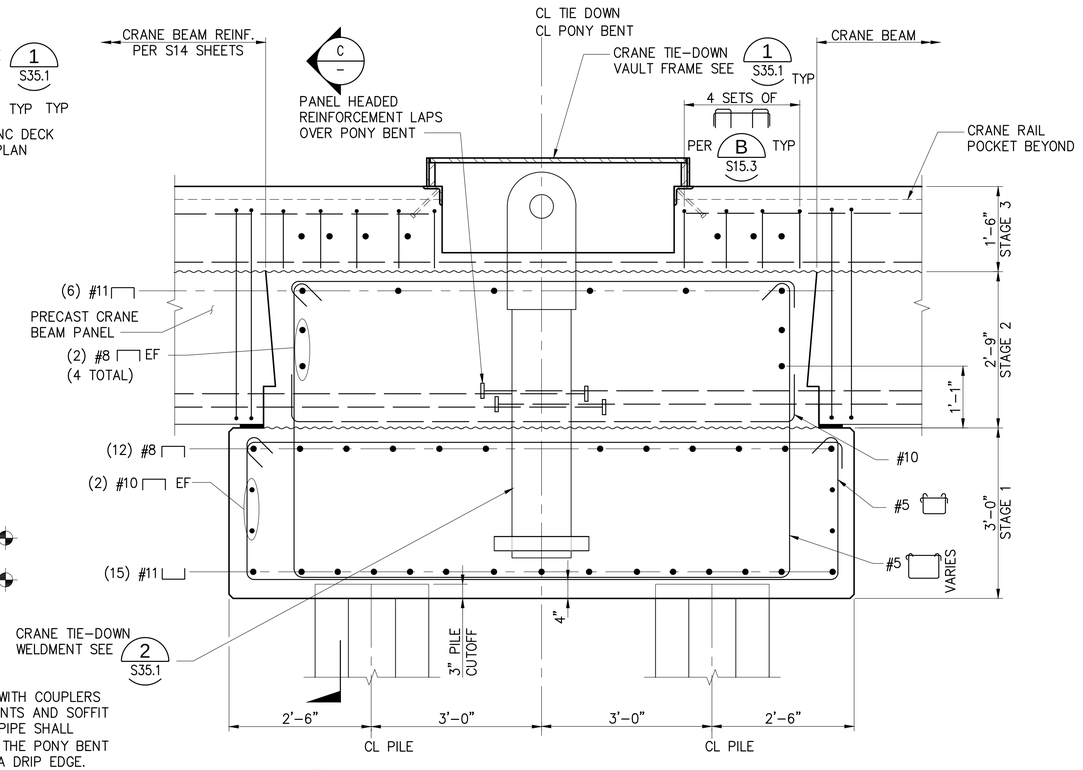
PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.4

BINDING EDGE



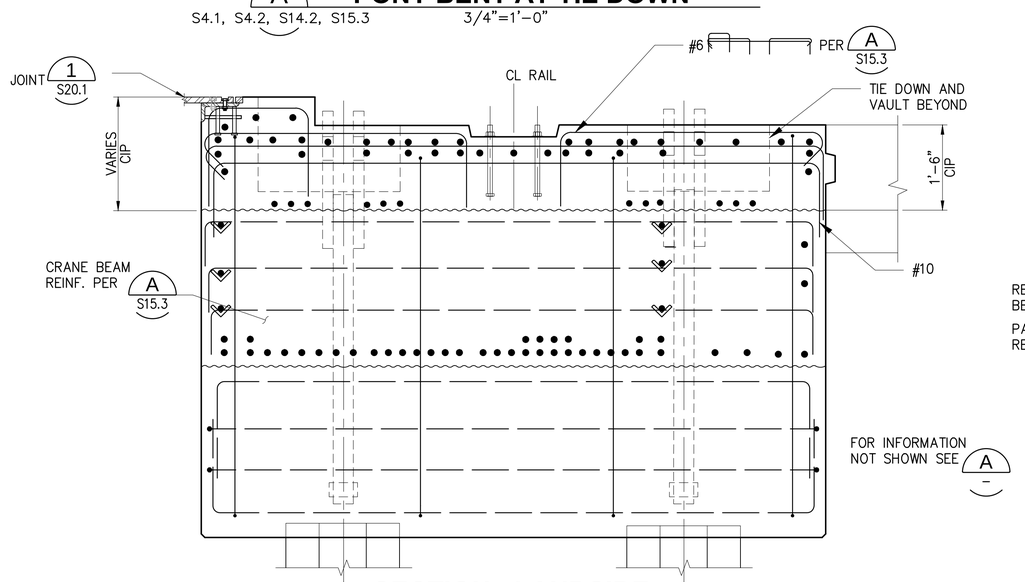
ELEVATION - LANDSIDE PONY BENT AT TIE DOWN

A — S4.1, S4.2, S14.2, S15.3 — 3/4"=1'-0"



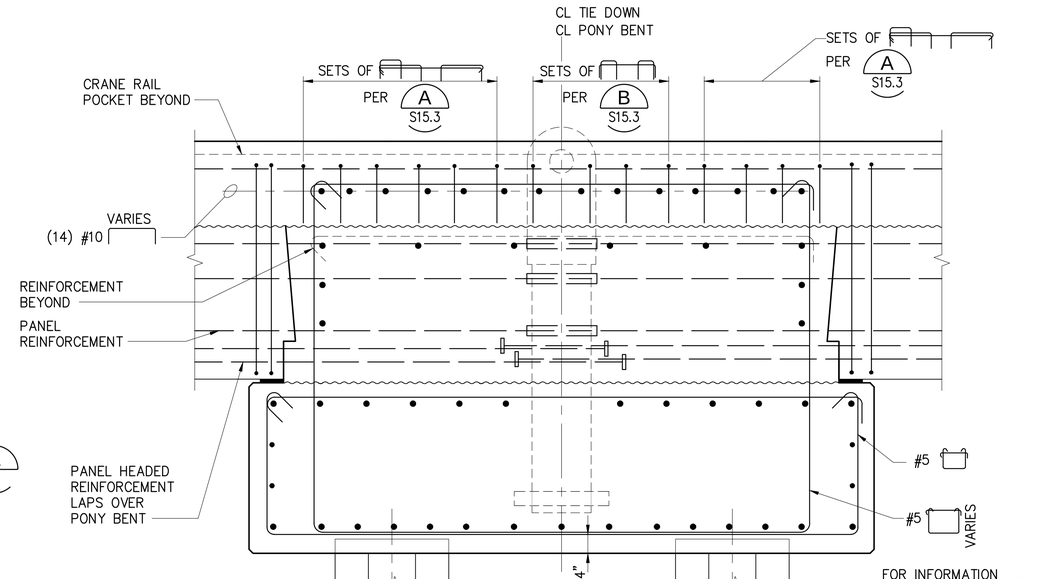
SECTION-PONY BENT

B – 3/4"=1'-0"



SECTION - LANDSIDE PONY BENT AT TIE DOWN

C – 3/4"=1'-0"



SECTION-PONY BENT

D – 3/4"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S11.5

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY SEK DATE

DRAWN BY TAH

PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

PONY BENT ELEVATIONS AND SECTIONS - SHEET 5

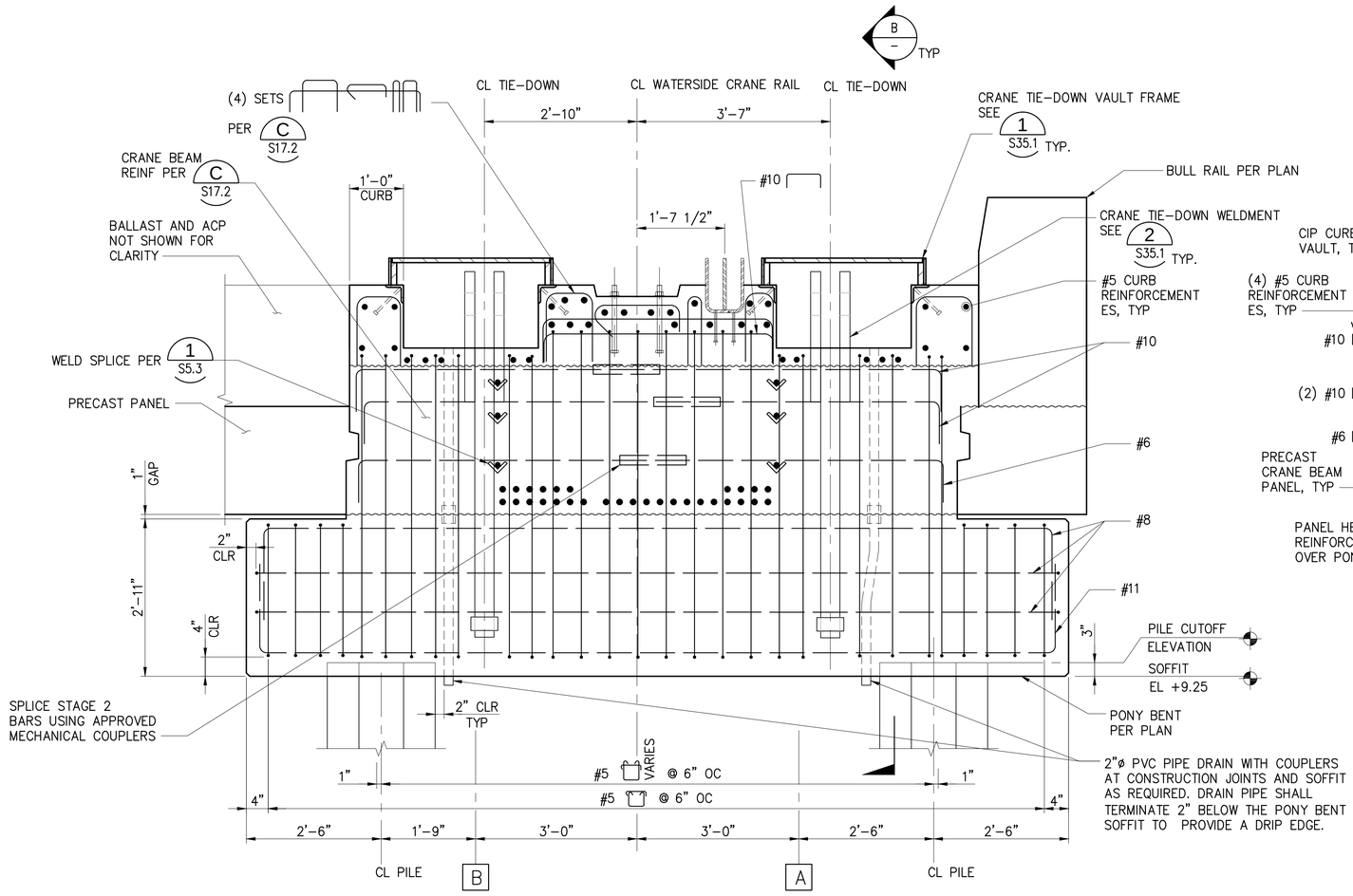
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552

S11.5

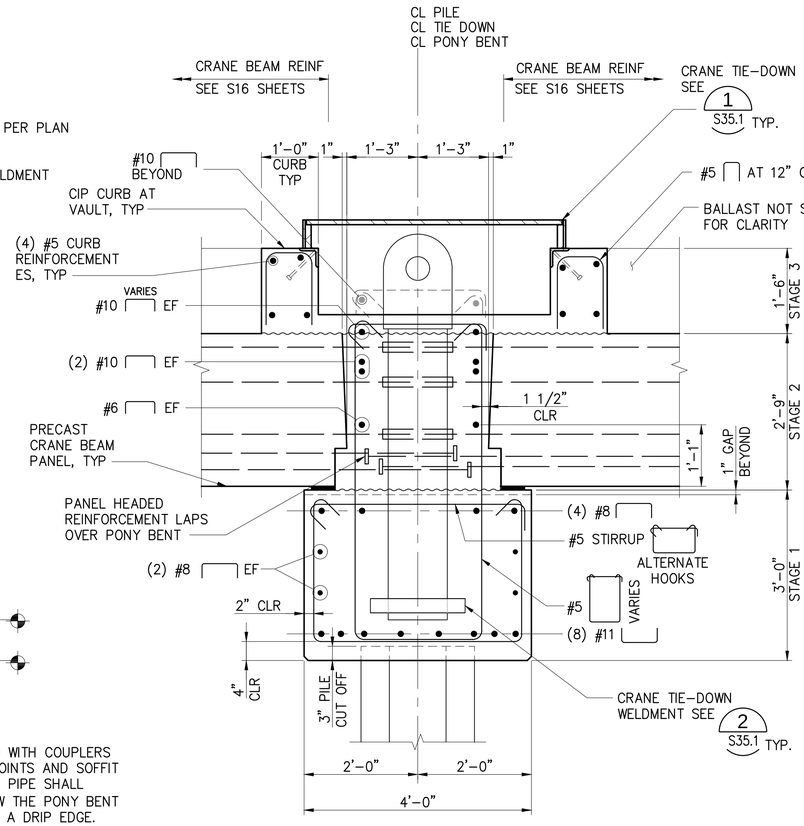
SH 247 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



A ELEVATION - WATERSIDE PONY BENT AT TIE DOWN

S4.1–S4.5, S16.1 3/4"=1'-0"



B SECTION - PONY BENT

– 3/4"=1'-0"

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
tlemons Jul 20, 2018 PRINTED BY: tlemons
S: ONE SITCUM PLAZA PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837 DRAWING SCALE: AS NOTED

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS - SHEET 6

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912.51	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

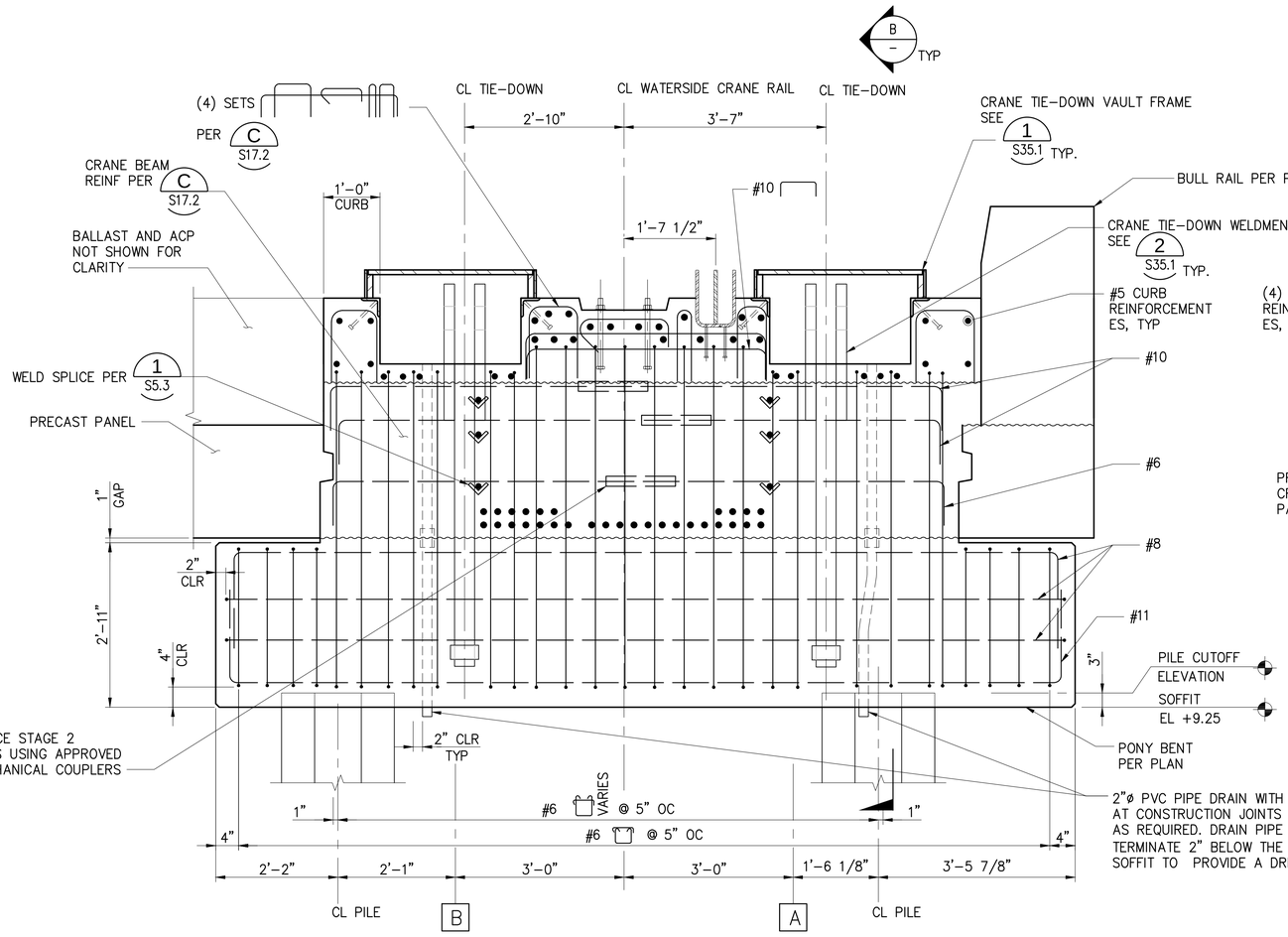
6552
S11.6
SH 248 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

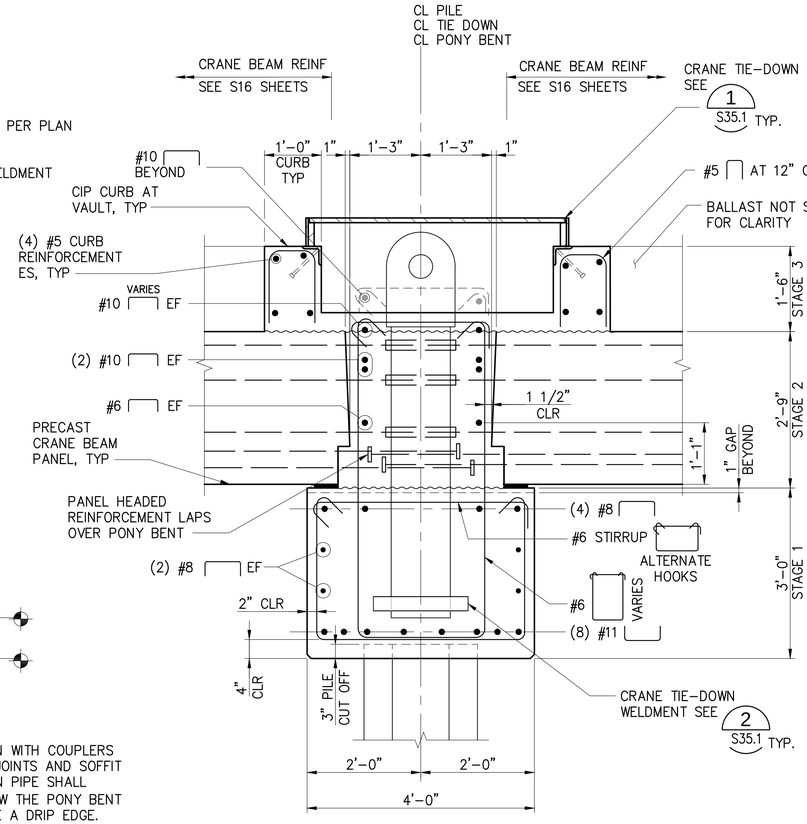
PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.6

BINDING EDGE



ELEVATION - WATERSIDE PONY BENT AT TIE DOWN AT 31.5

A — S4.1–S4.5, S16.1 — 3/4"=1'-0"



SECTION - PONY BENT

B — 3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535053641
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PONY BENT ELEVATIONS AND SECTIONS - AT BENT 31.5

PRINTED BY: tlemons
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

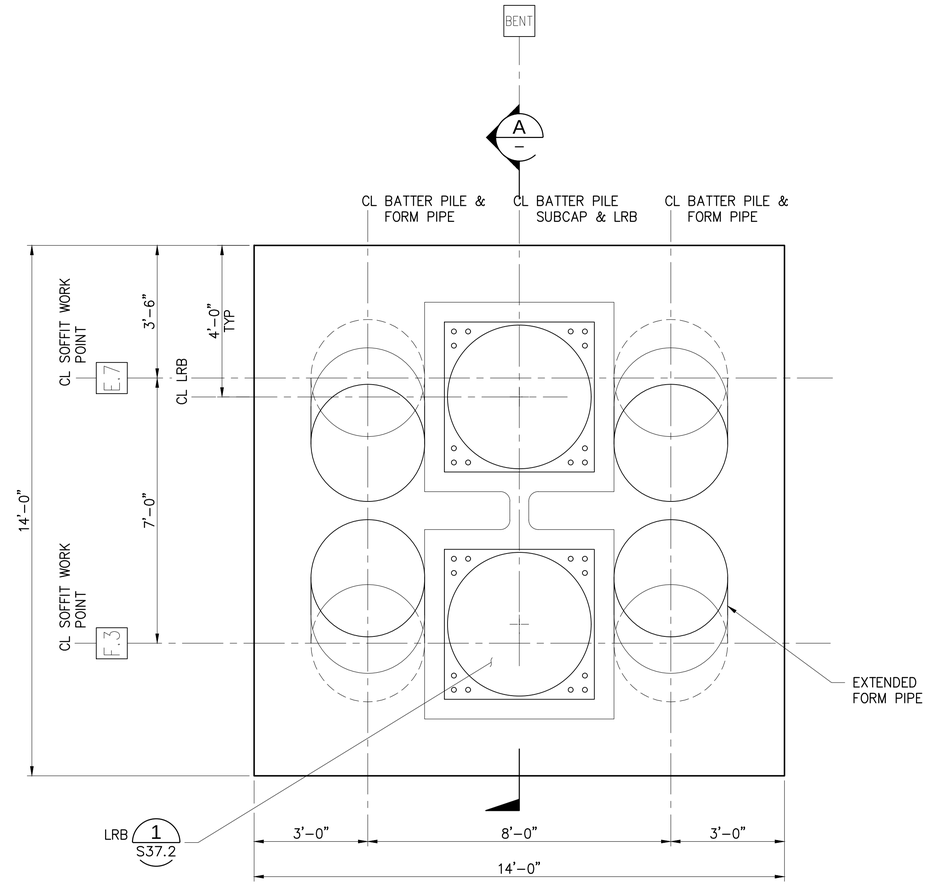
CONT/CONS:	070136	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091251	DAT–HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:	AS NOTED		

6552
S11.6A
SH 248 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

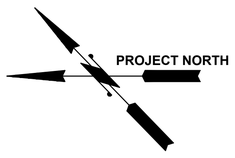
PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.6A

BINDING EDGE

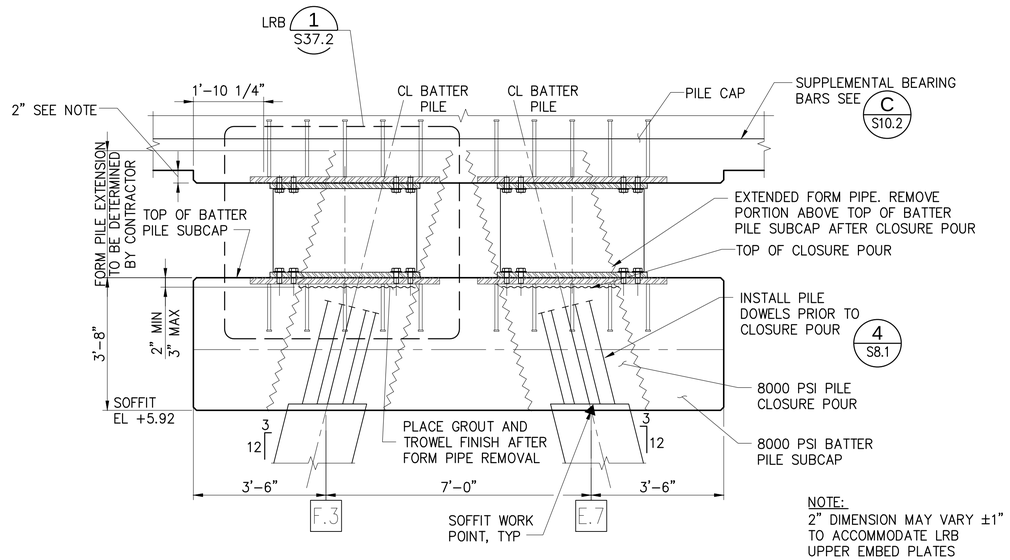


PLAN - PRECAST BATTER PILE SUBCAP

1 S4.1 — 1/2"=1'-0"



NOTE:
SEE 1 S11.8 AND 2 S11.8 FOR REINFORCING DETAILS



NOTE:
2" DIMENSION MAY VARY ±1" TO ACCOMMODATE LRB UPPER EMBED PLATES

SECTION - PRECAST BATTER PILE SUBCAP

A — 1/2"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.7

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

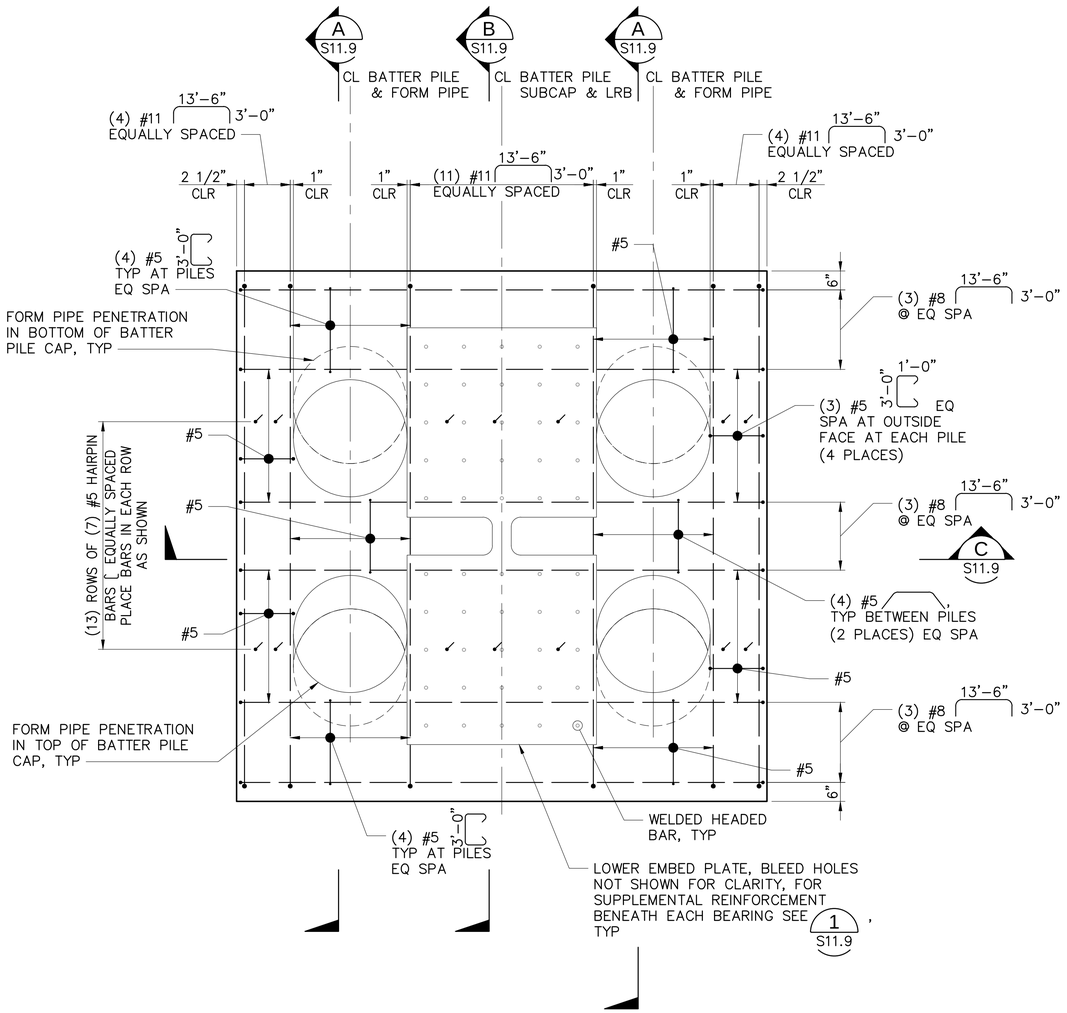
CHECKED BY SEK DATE
TAH

PIER 4 PHASE 2
RECONFIGURATION
BATTER PILE SUBCAP PLAN AND SECTION

CONT/CONS: 0701.36	TOWNSHIP: 27N	RANGE: 3E	SECTION: 27
M. ID: 0912.51	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

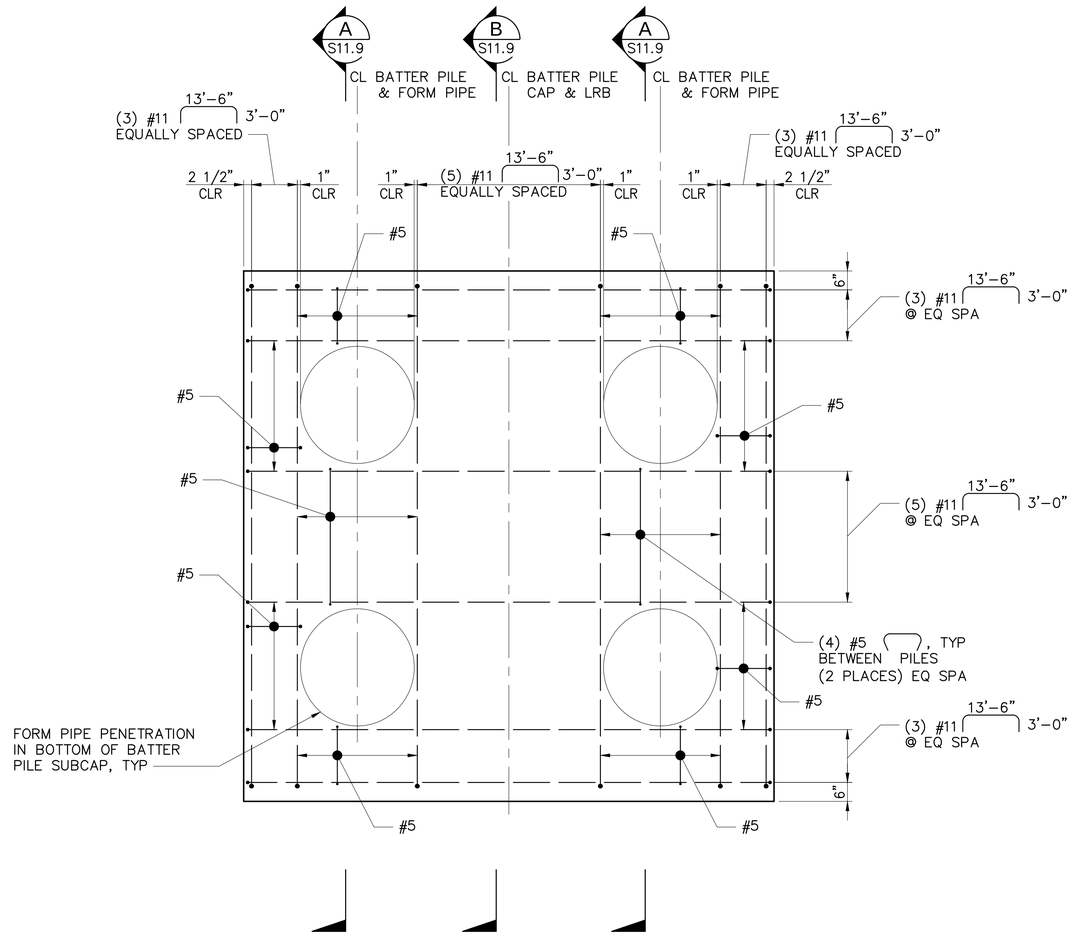
6552
S11.7
SH 249 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



PLAN - TOP MAT REINFORCEMENT

1 S11.7 — 1/2"=1'-0"



PLAN - BOTTOM MAT REINFORCEMENT

2 S11.7 — 1/2"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
BATTER PILE SUBCAP PLANS

6552
S11.8
SH 250 OF 499

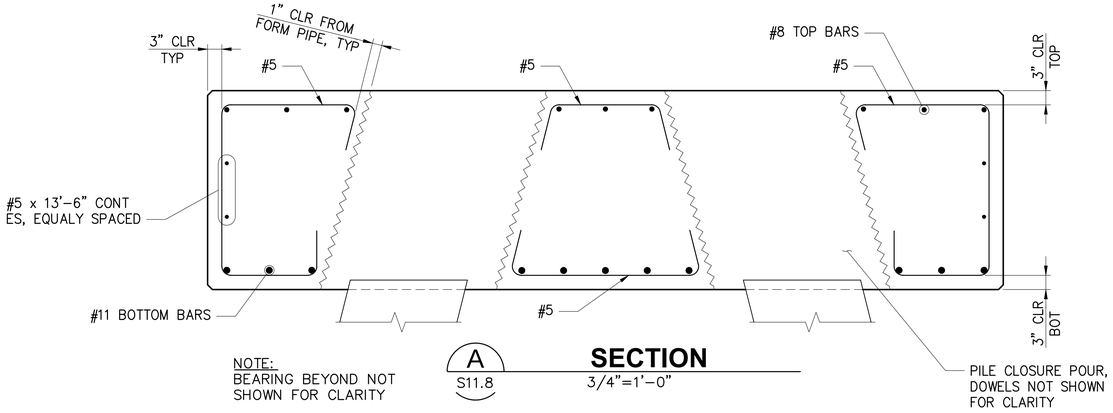
CONT/CONS: 070136	TOWNSHIP: 27N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

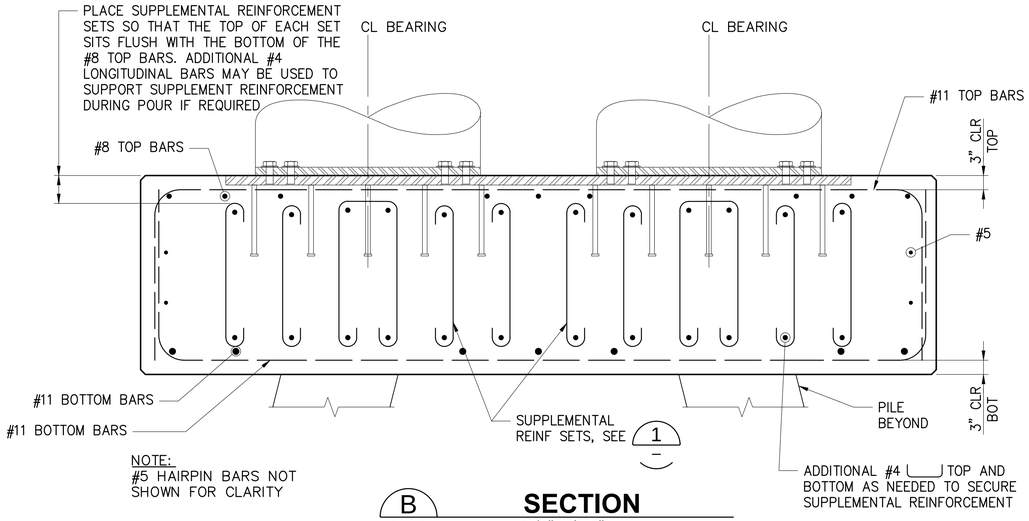
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

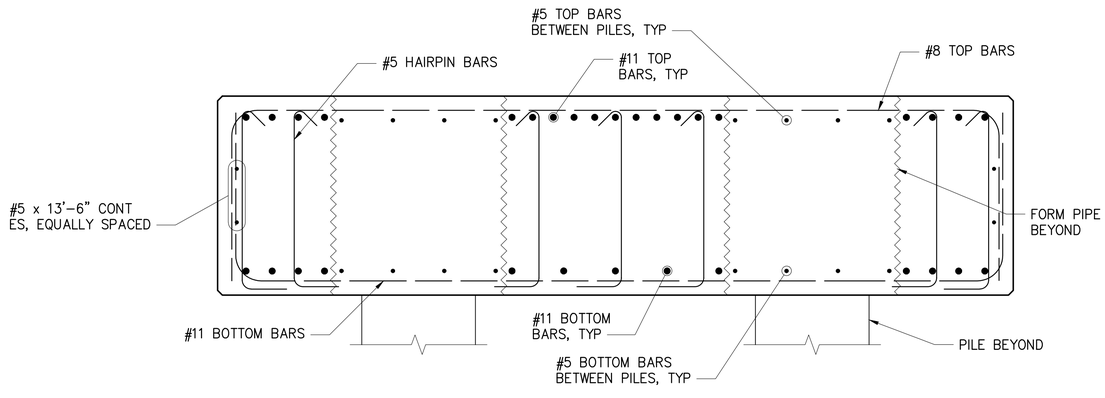
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.8



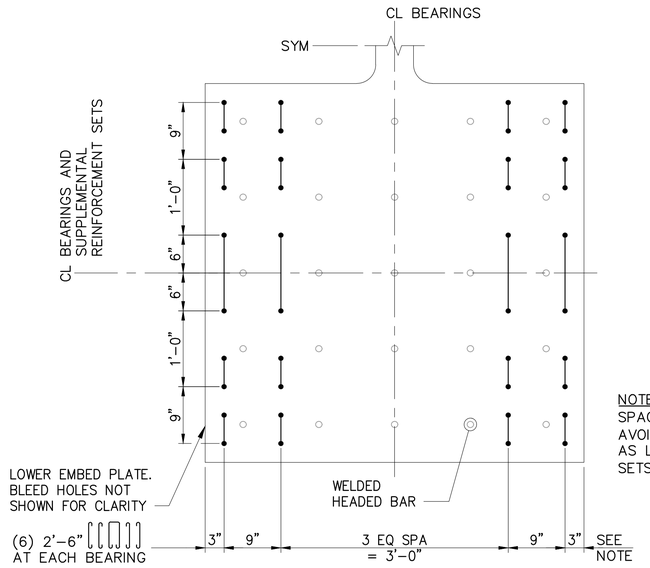
A S11.8 **SECTION** 3/4"=1'-0"



B S11.8 **SECTION** 3/4"=1'-0"



C S11.8 **SECTION** 3/4"=1'-0"



NOTE:
SPACING MAY BE ADJUSTED ±2" TO AVOID HAIRPIN BARS (NOT SHOWN) AS LONG AS CLEAR COVER FROM SETS TO FORM PIPE IS 1" MIN.

1 S11.8 **DETAIL** 1"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	SEK DATE
PROJ. ENGR	DATE	DRAWN BY	TAH
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

PIER 4 PHASE 2
RECONFIGURATION
BATTER PILE SUBCAP SECTIONS AND DETAIL

CONT/CONS:	070136	TOWNSHIP: 27N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Title 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

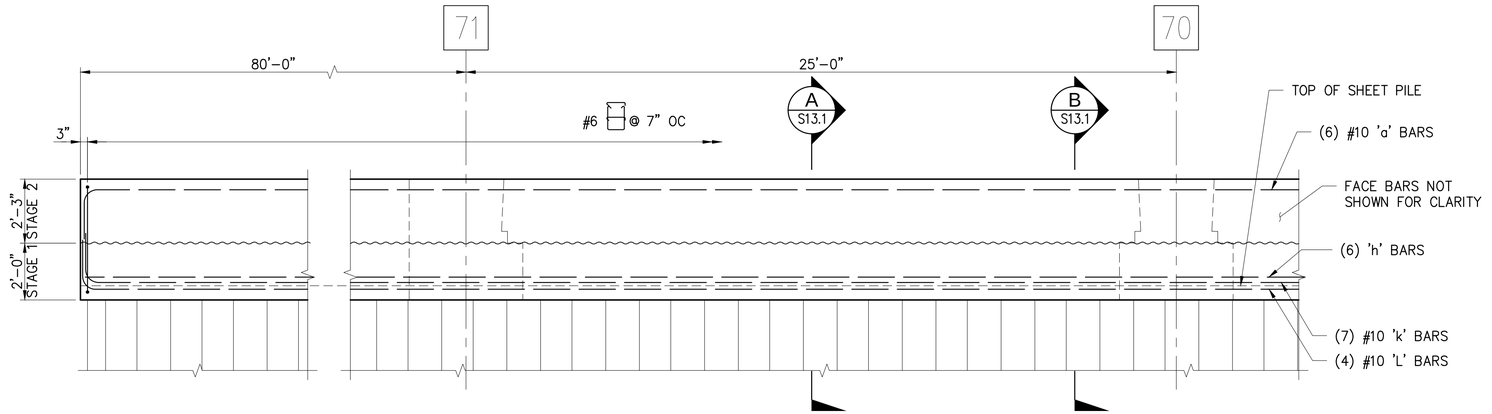
SECTION: 27

6552
S11.9
SH 251 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

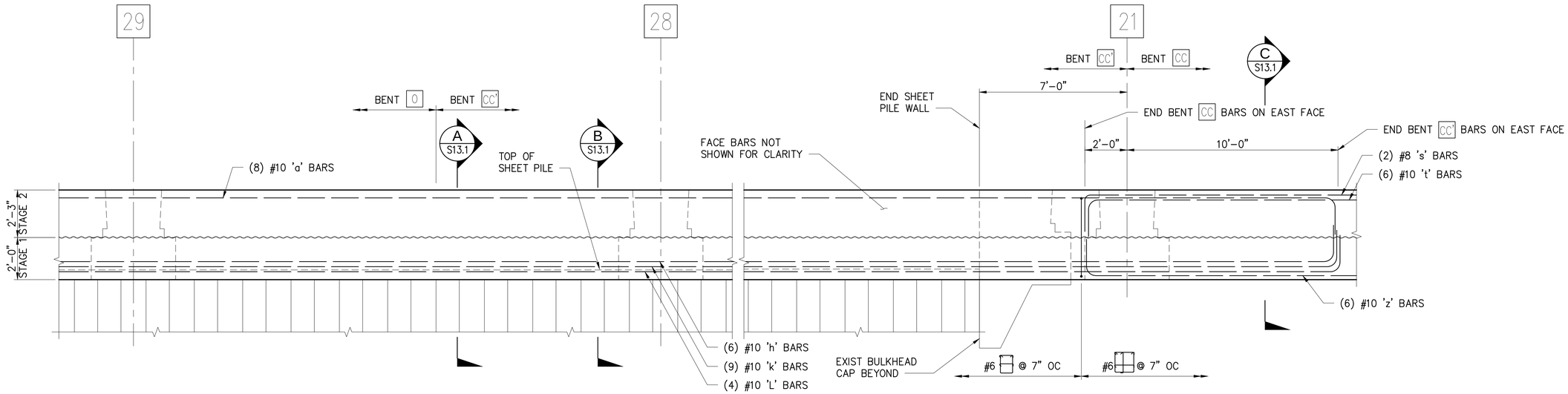
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S11.9



A S4.1 **PILE CAP REINFORCING ELEVATION - BENT O**

3/8" = 1'-0"



B S4.1 **PILE CAP REINFORCING ELEVATION - BENTS O, CC', CC**

3/8" = 1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

DESIGNED:	SEK	CHECKED BY	DATE
DRAWN:	TAH	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

PIER 4 PHASE 2 RECONFIGURATION

SHEET PILE WALL CAP BEAM ELEVATIONS

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

6552

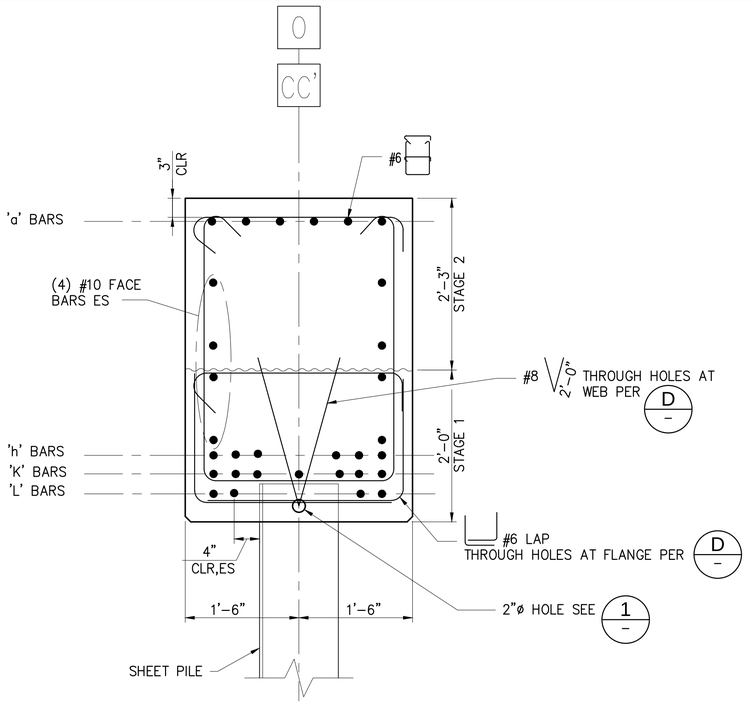
S12.1

SH 252 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

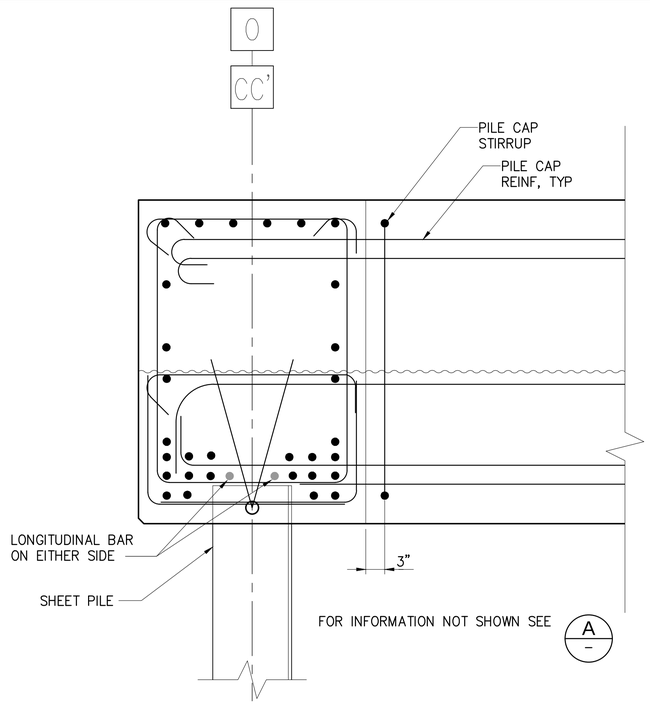
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S12.1



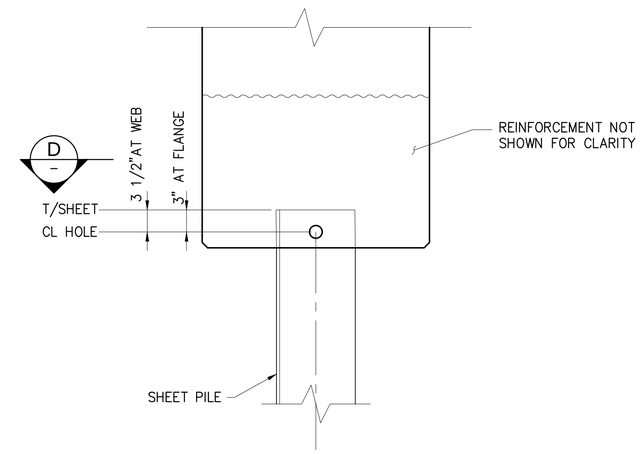
A S12.1 **SHEET PILE CAP TYPICAL SECTION**

1"=1'-0"



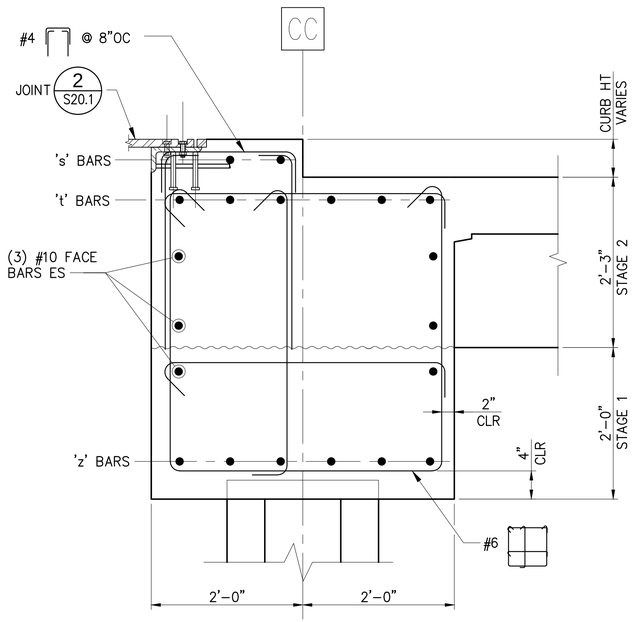
B S12.1 **SHEET PILE CAP SECTION AT PILE CAP**

1"=1'-0"



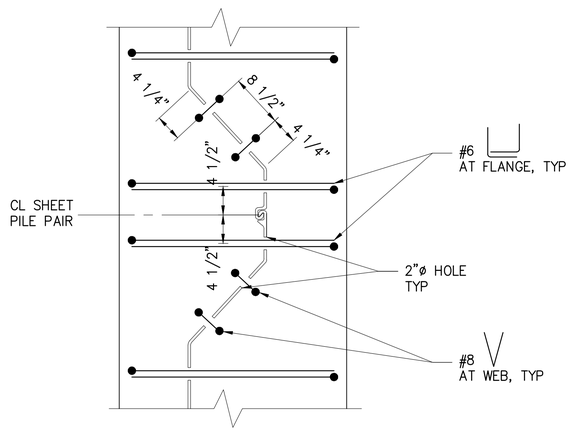
1 – **DETAIL**

1"=1'-0"



C S12.1 **EDGE BEAM SECTION AT CC**

1"=1'-0"



D – **SHEET PILE SECTION**

1"=1'-0"

NOTES:

1. FOR PILE CAP REINFORCEMENT SEE SHEETS S9.1 – S9.16

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S13.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	5/10/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	DATE
CHECKED BY	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE
PRINTED BY: tlemons Jul 20, 2018		
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA, WA 98401-1837		

APPROVED:

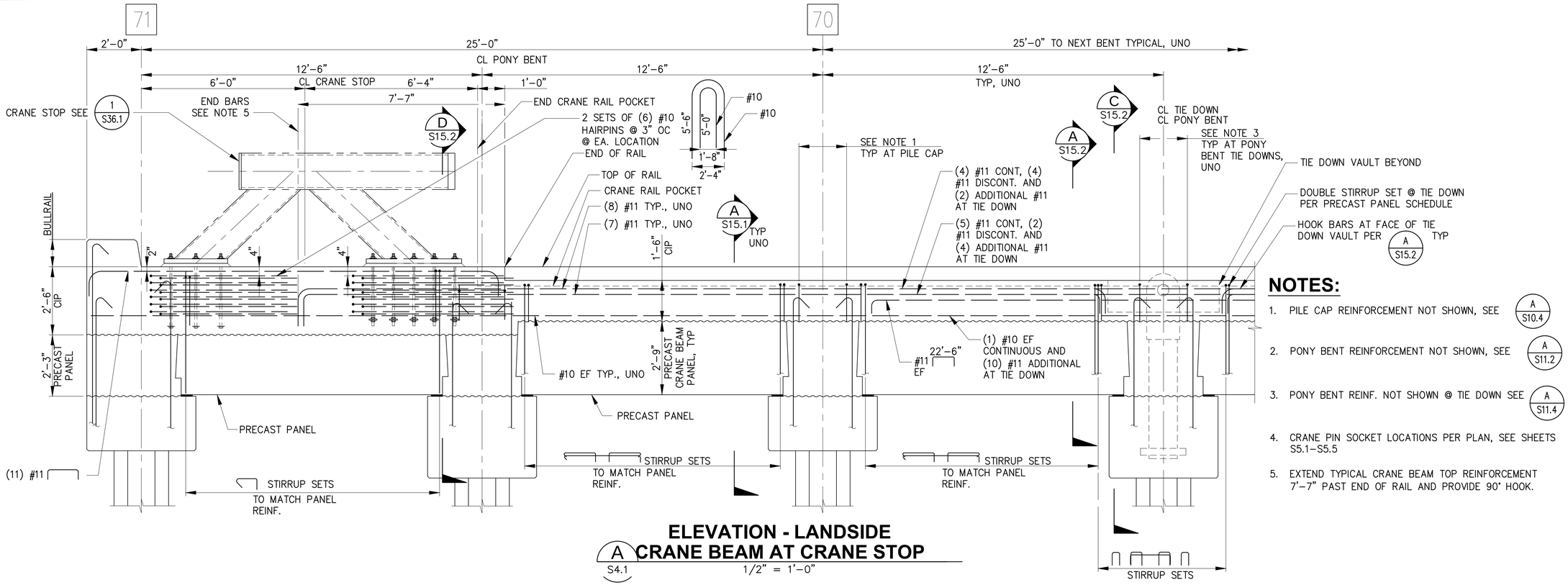
PIER 4 PHASE 2
RECONFIGURATION
SHEET PILE WALL CAP BEAM SECTIONS AND DETAILS

6552
S13.1
SH 253 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

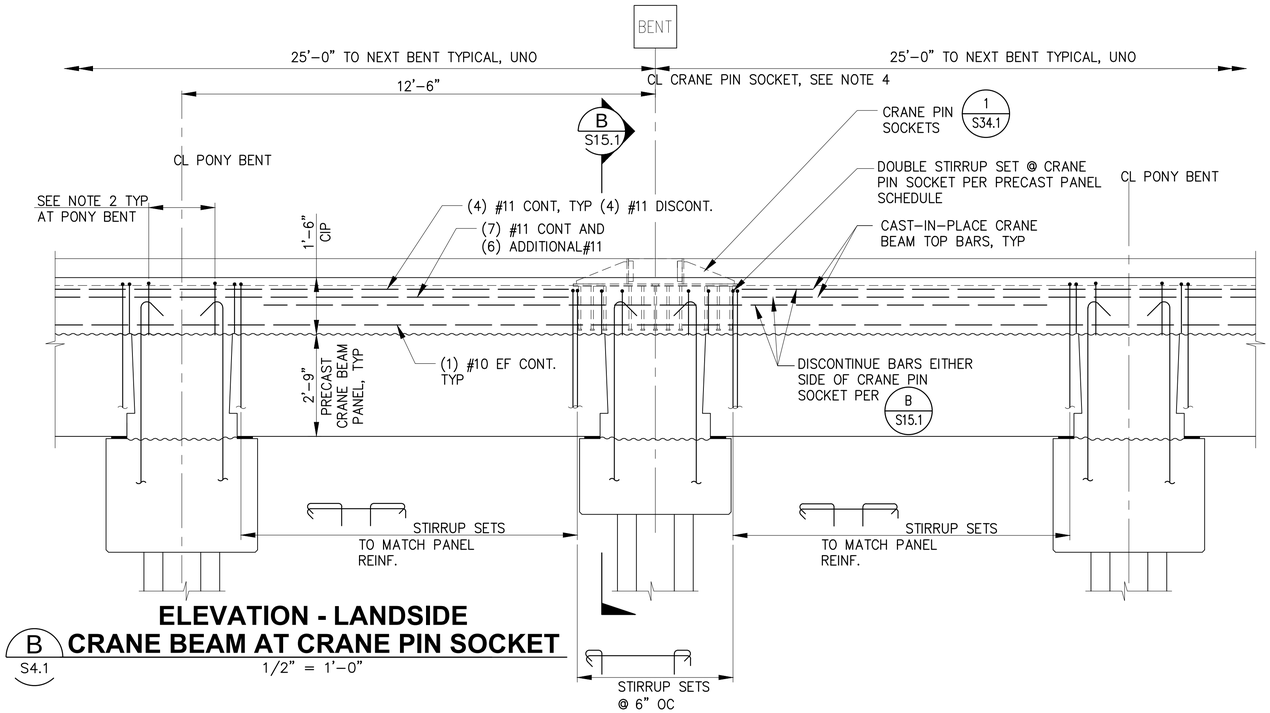
BINDING EDGE



ELEVATION - LANDSIDE
A CRANE BEAM AT CRANE STOP
A S4.1 1/2" = 1'–0"

NOTES:

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE A S10.4
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A S11.2
3. PONY BENT REINF. NOT SHOWN @ TIE DOWN SEE A S11.4
4. CRANE PIN SOCKET LOCATIONS PER PLAN, SEE SHEETS S5.1–S5.5
5. EXTEND TYPICAL CRANE BEAM TOP REINFORCEMENT 7'–7" PAST END OF RAIL AND PROVIDE 90° HOOK.



ELEVATION - LANDSIDE
B CRANE BEAM AT CRANE PIN SOCKET
B S4.1 1/2" = 1'–0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S14.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK		
CHECKED BY	DATE	
TAH		
DIRECTOR ENG.	DATE	
PROJ. ENGR	DATE	

APPROVED:

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
LANDSIDE CRANE BEAM ELEVATIONS - SHEET 1

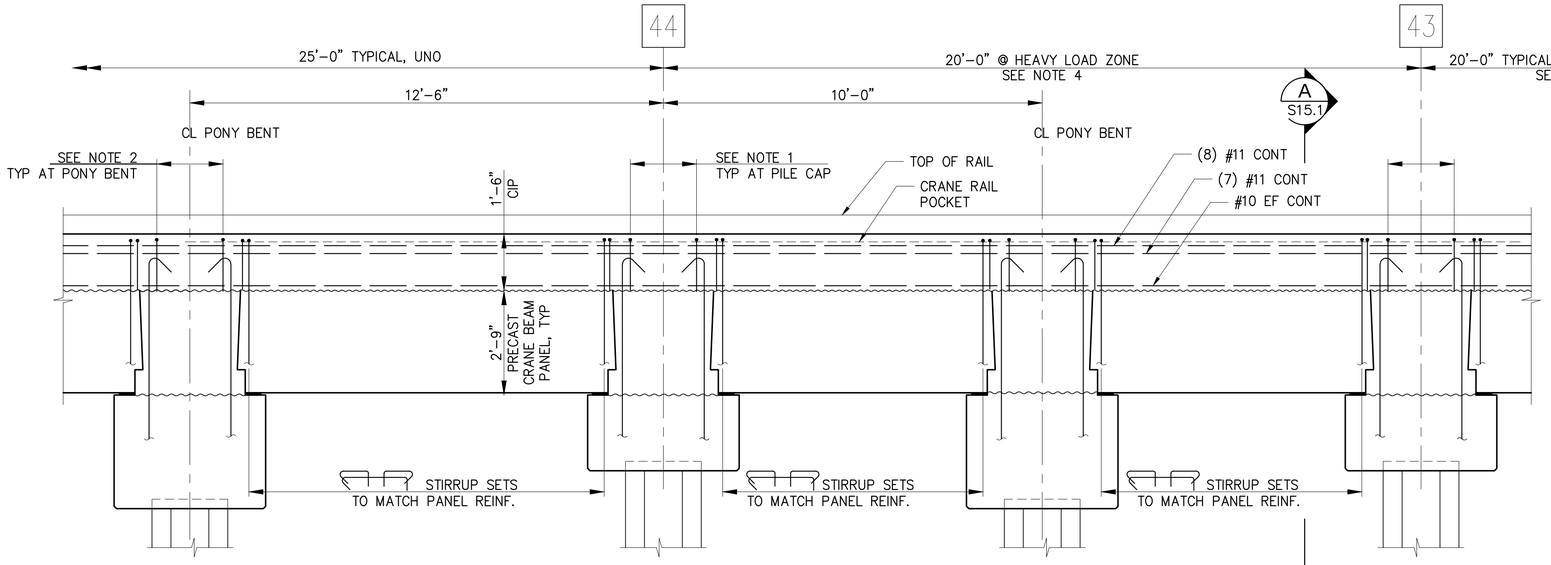
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S14.1
SH 254 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



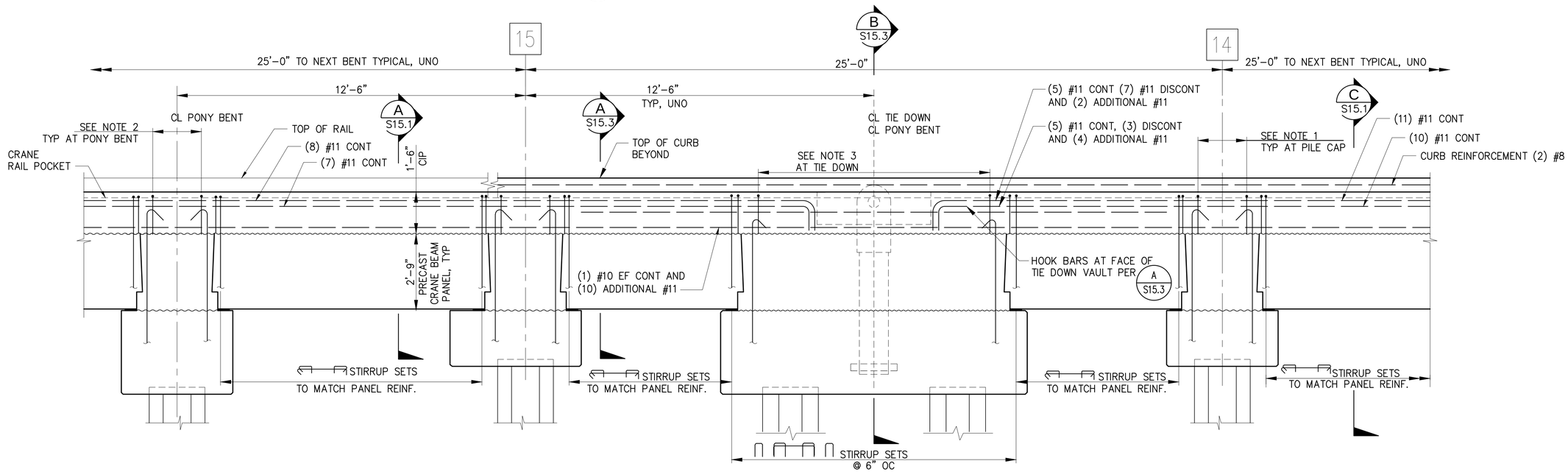
ELEVATION - LANDSIDE CRANE BEAM AT HEAVY LOAD ZONE

A S4.1

1/2" = 1'-0"

NOTES

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE B S10.4
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A S11.2
3. PONY BENT REINFORCEMENT NOT SHOWN AT TIE DOWN, SEE A S11.5
4. HEAVY LOAD ZONE LOCATION PER SHEET S5.3



ELEVATION - LANDSIDE CRANE BEAM AT TIE DOWN

B S4.1

1/2" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535053041
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
tlemons	Jul 20, 2018		

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2 RECONFIGURATION

LANDSIDE CRANE BEAM ELEVATIONS - SHEET 2

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

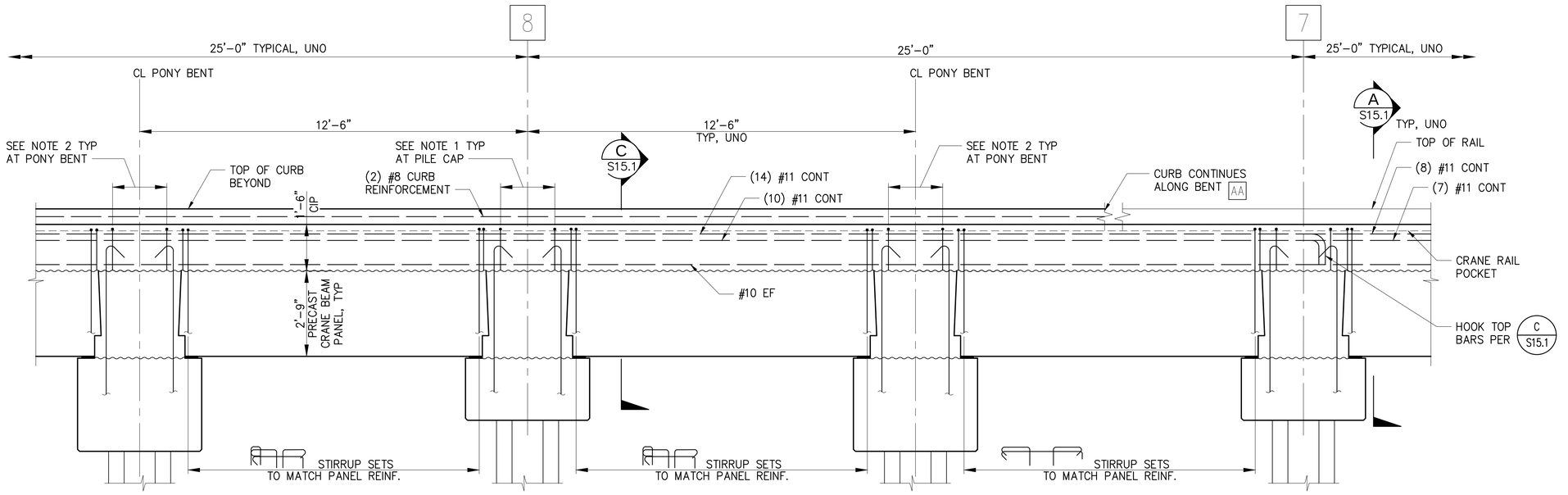
6552

S14.2

SH 255 OF 499

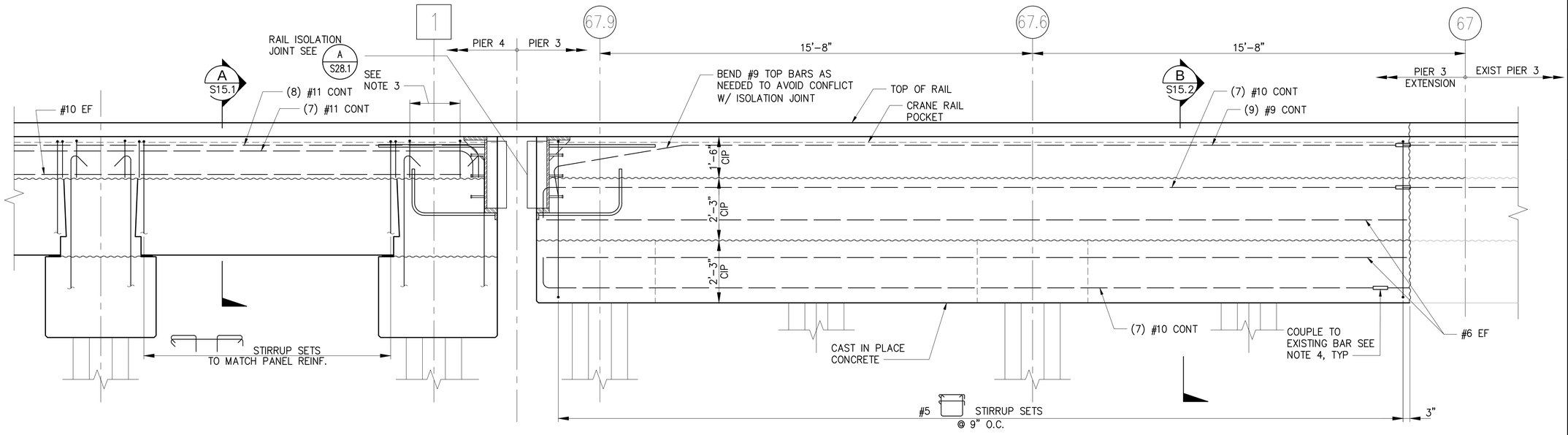
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S14.2



ELEVATION - LANDSIDE CRANE BEAM AT CORNER

A S4.1 — 1/2" = 1'-0"



ELEVATION - LANDSIDE CRANE BEAM AT ISOLATION JOINT

B S4.1 — 1/2" = 1'-0"

NOTES

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE B S10.4
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A S11.2
3. PILE CAP REINFORCEMENT NOT SHOWN SEE C S10.6
4. MECHANICALLY COUPLE TO EXISTING CRANE BEAM BARS AT LAND SIDE CRANE BEAM, TYP.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
		TAH	

CHECKED BY	DATE
SEK	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
LANDSIDE CRANE BEAM ELEVATIONS - SHEET 3

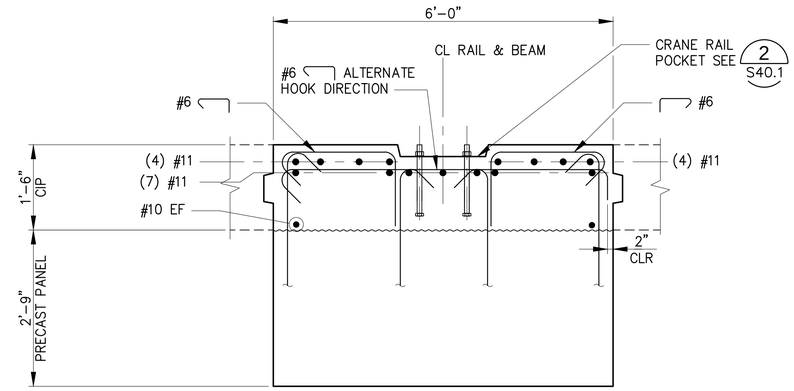
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

6552
S14.3
SH 256 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S14.3

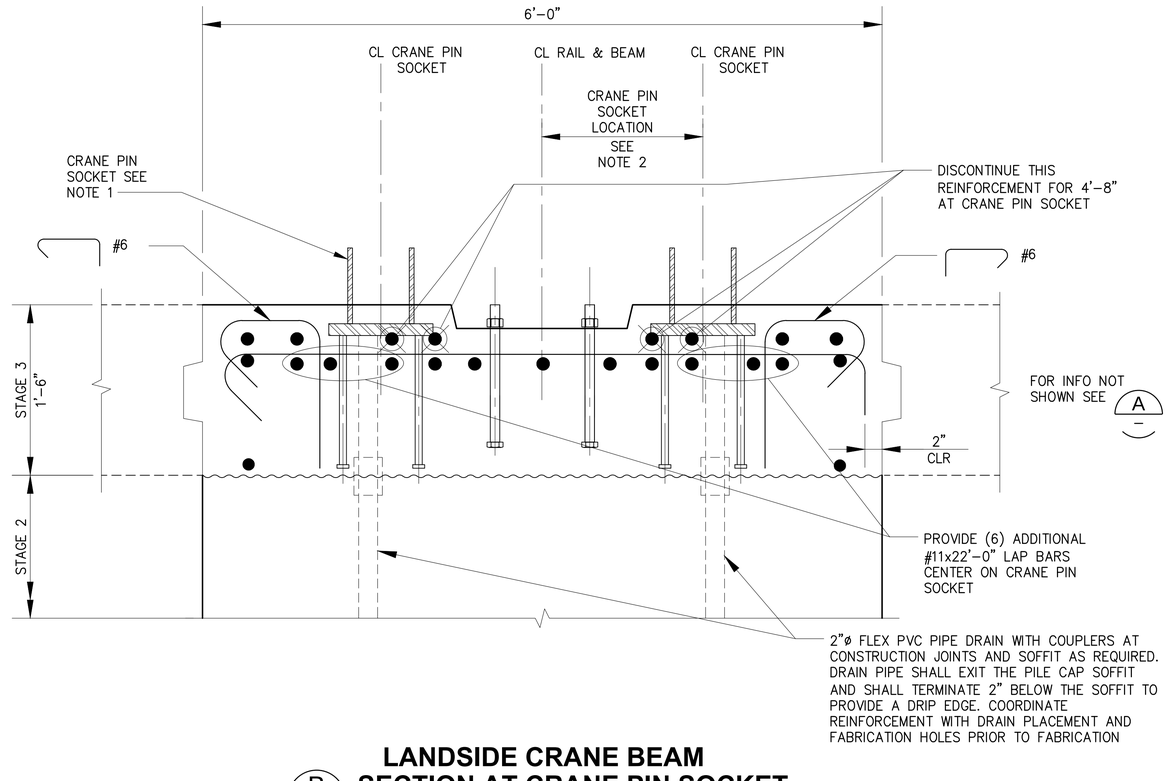


TYPICAL LANDSIDE CRANE BEAM SECTION

A — S11.3, S14.1, S14.3 — 3/4"=1'-0"

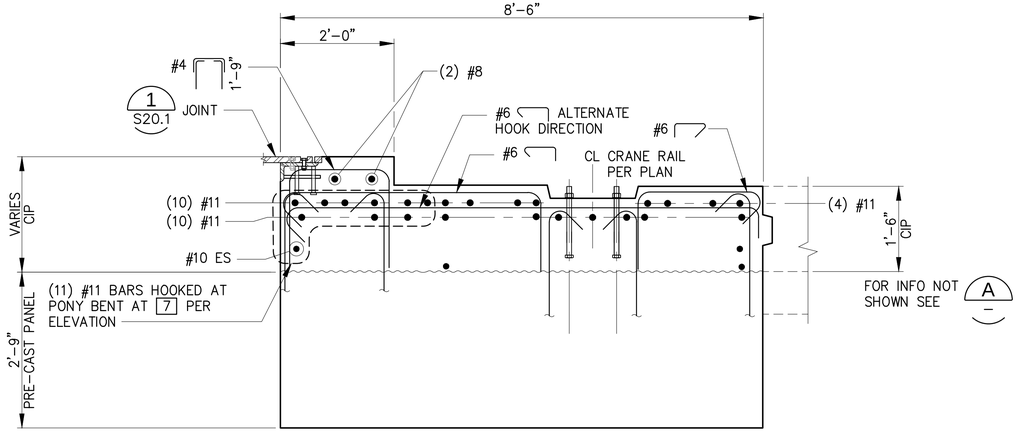
NOTES

1. FOR CRANE PIN SOCKET LOCATIONS SEE SHEETS S5.1–S5.5
2. FOR CRANE PIN SOCKET DETAILS AND PLACEMENT SEE 1 S34.1



LANDSIDE CRANE BEAM SECTION AT CRANE PIN SOCKET

B — S14.1 — 1 1/2"=1'-0"



LANDSIDE CRANE BEAM SECTION AT 7.5 TO 14

C — S14.2, S14.3 — 3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S15.1

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff — 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR	ENG.	DATE

CHECKED BY DATE

PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

LANDSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 1

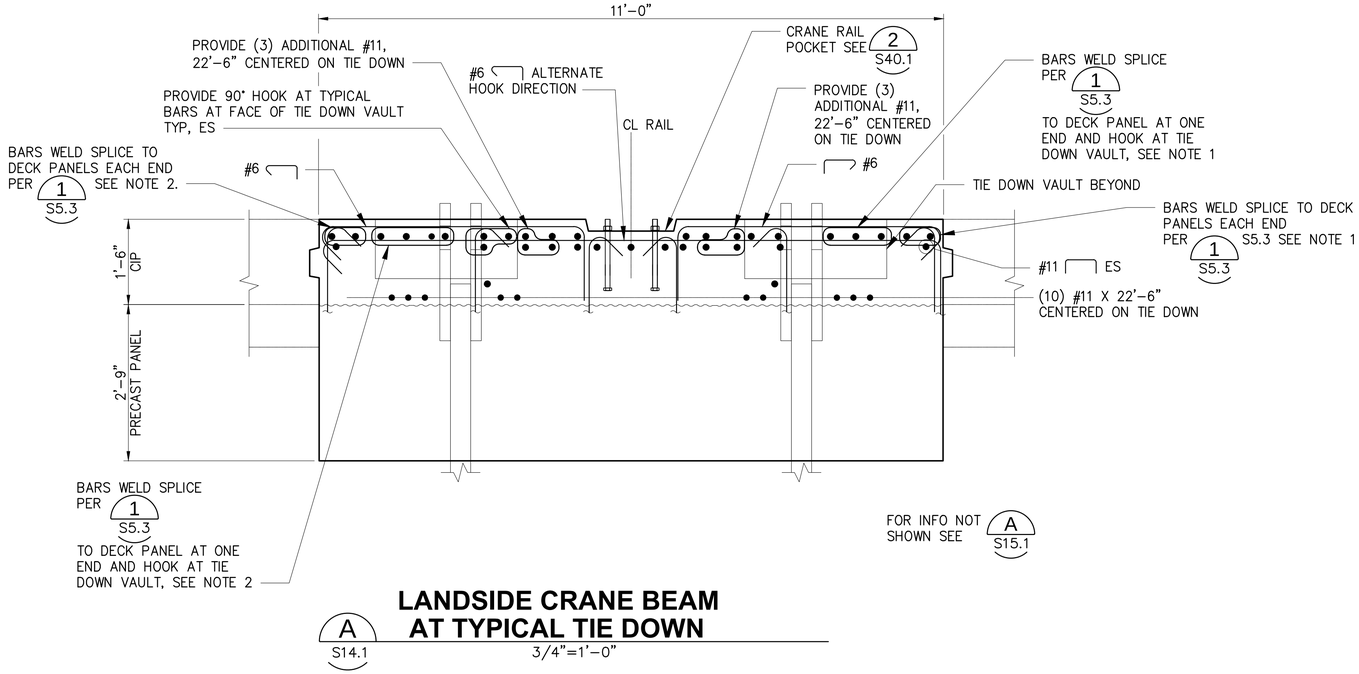
6552

S15.1

SH 257 OF 499

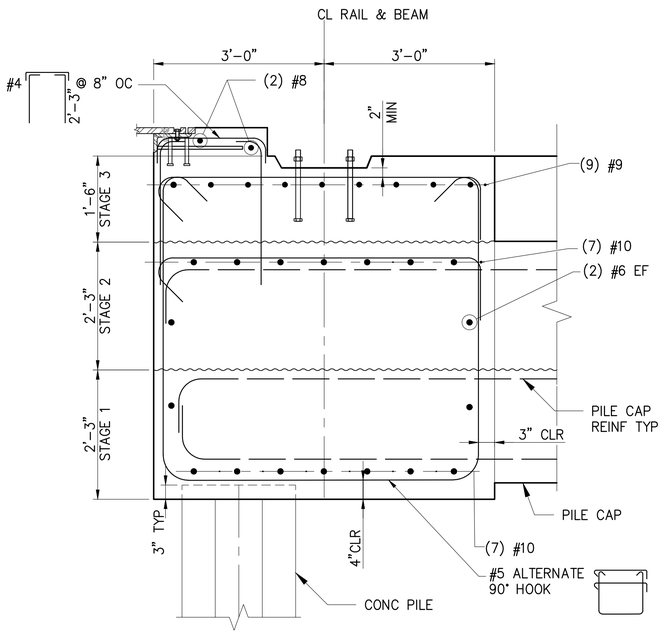
CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



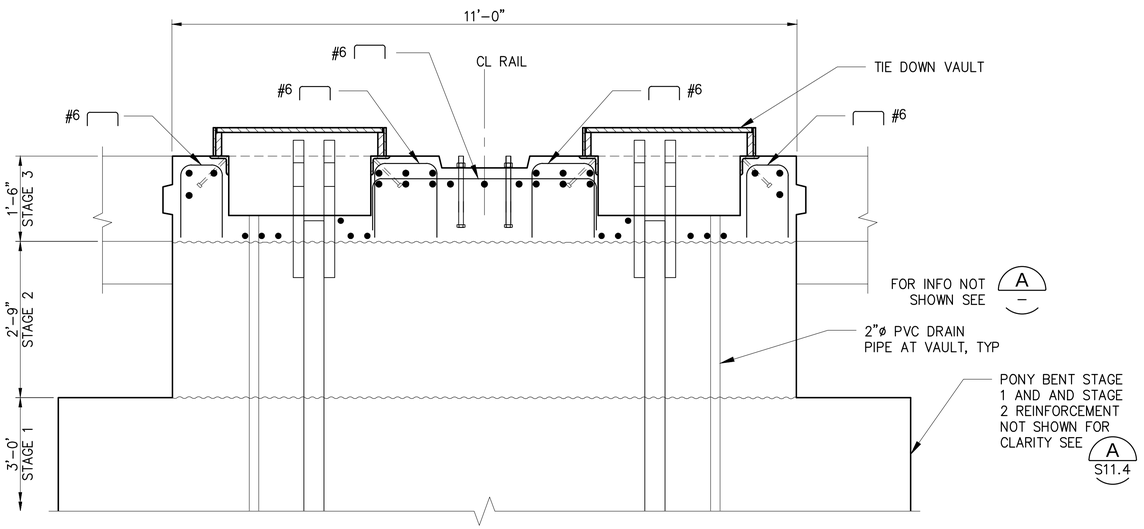
LANDSIDE CRANE BEAM AT TYPICAL TIE DOWN

A S14.1 — 3/4"=1'-0"



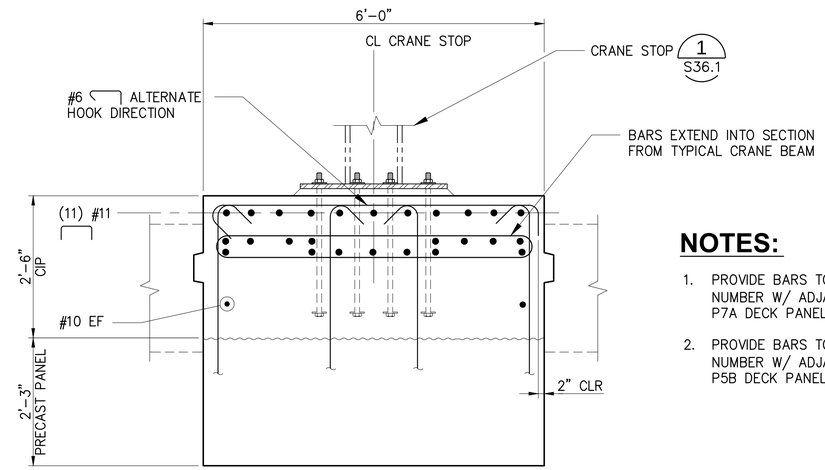
PILECAP LANDSIDE - PIER 3 EXTENSION

B S9.13 S9.14, S14.3 — 3/4"=1'-0"



LANDSIDE CRANE BEAM AT TYPICAL TIE DOWN AT PONY BENT

C S14.1 — 3/4"=1'-0"



LANDSIDE CRANE BEAM AT CRANE STOP

D S14.1 — 3/4"=1'-0"

NOTES:

1. PROVIDE BARS TO MATCH SIZE AND NUMBER W/ ADJACENT P7, P7B OR P7A DECK PANELS.
2. PROVIDE BARS TO MATCH SIZE AND NUMBER W/ ADJACENT P5, P5A OR P5B DECK PANELS.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
tlemons Jul 20, 2018	PRINTED BY:		
DIRECTOR ENG.	DATE		

APPROVED:

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

LANDSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 2

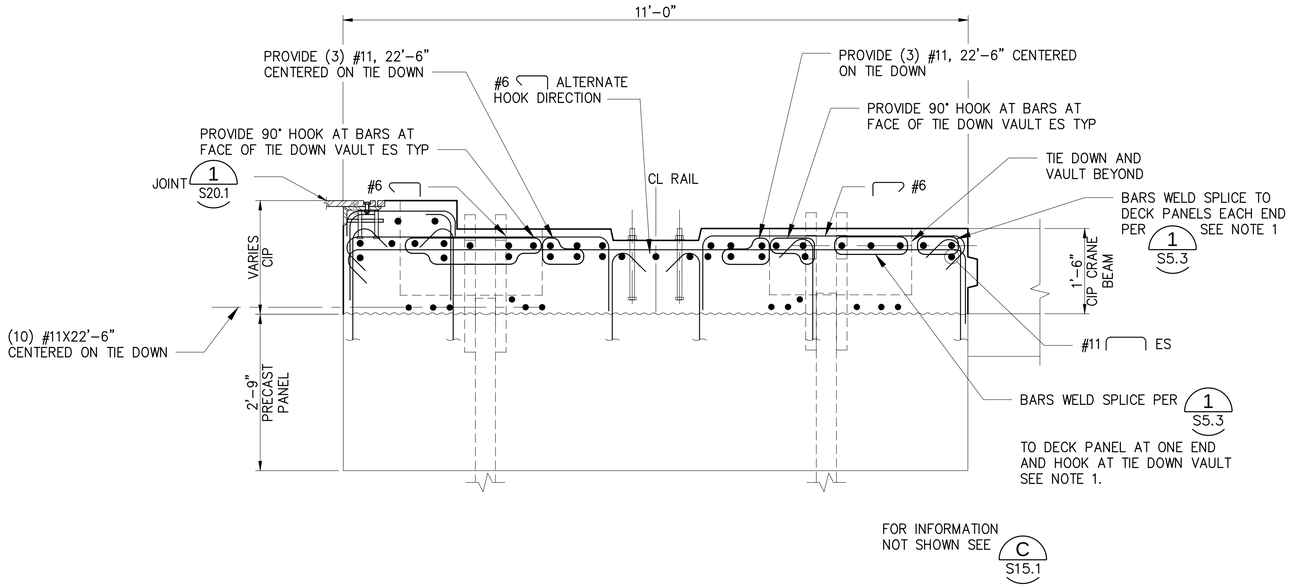
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S15.2
SH 258 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

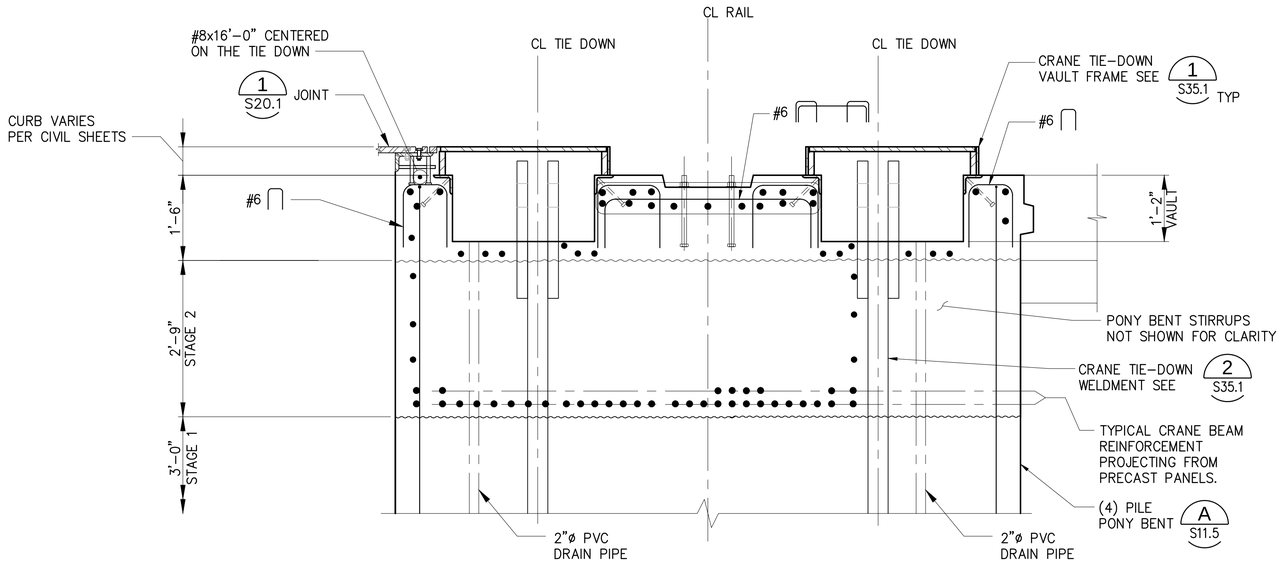
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S15.2



LANDSIDE CRANE BEAM SECTION AT TIEDOWN VAULTS AT BENTS 11.5 AND 14.5

A S14.2

3/4"=1'-0"



LANDSIDE CRANE BEAM SECTION AT TIEDOWN AT PONT BENTS 11.5 AND 14.5

B S14.2

3/4"=1'-0"

NOTES

1. PROVIDE BARS TO MATCH SIZE AND NUMBER W/ ADJACENT P7 DECK PANELS.
2. FOR TIE DOWN LOCATIONS SEE SHEETS S5.1–S5.5
3. FOR TIE DOWN DETAILS AND PLACEMENT SEE 1 S35.1

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251091251-S15.3

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

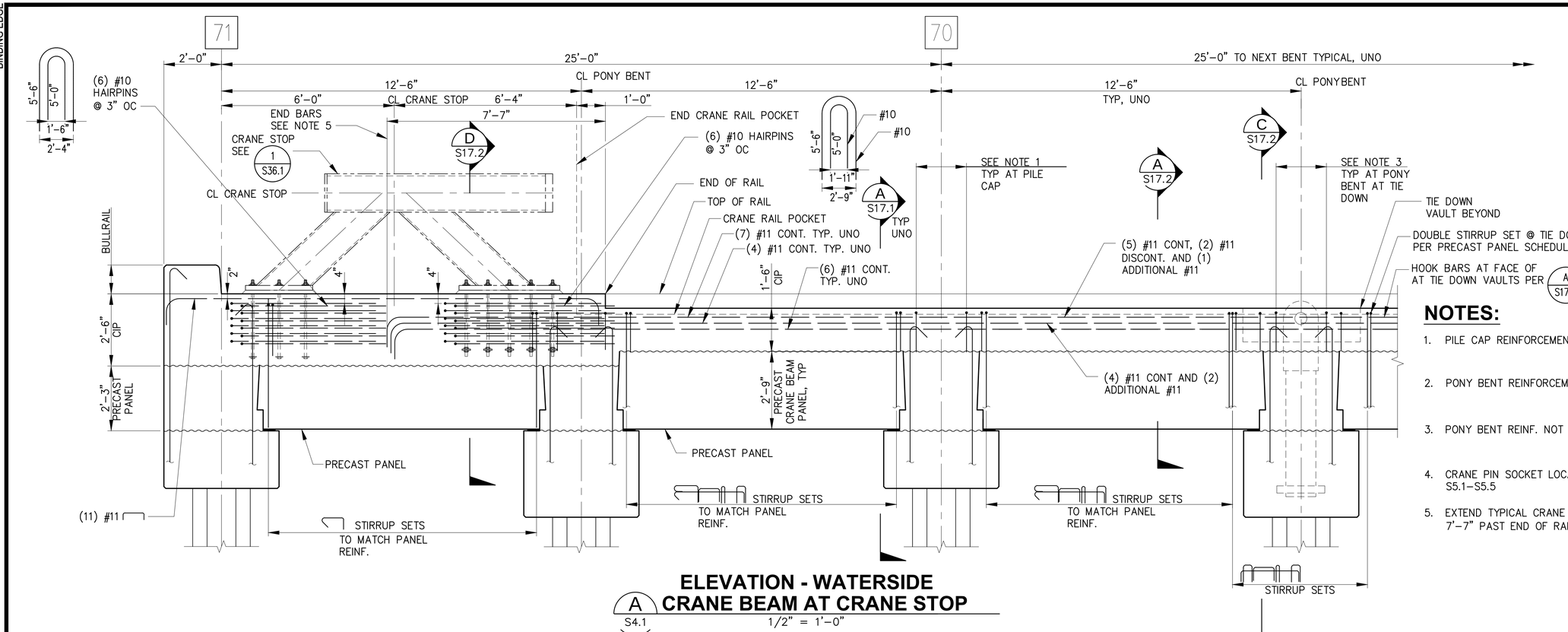
CHECKED BY	DATE
DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
LANDSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 3

CONT/CONS: 070136	TOWNSHIP:	RANGE:	SECTION:
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

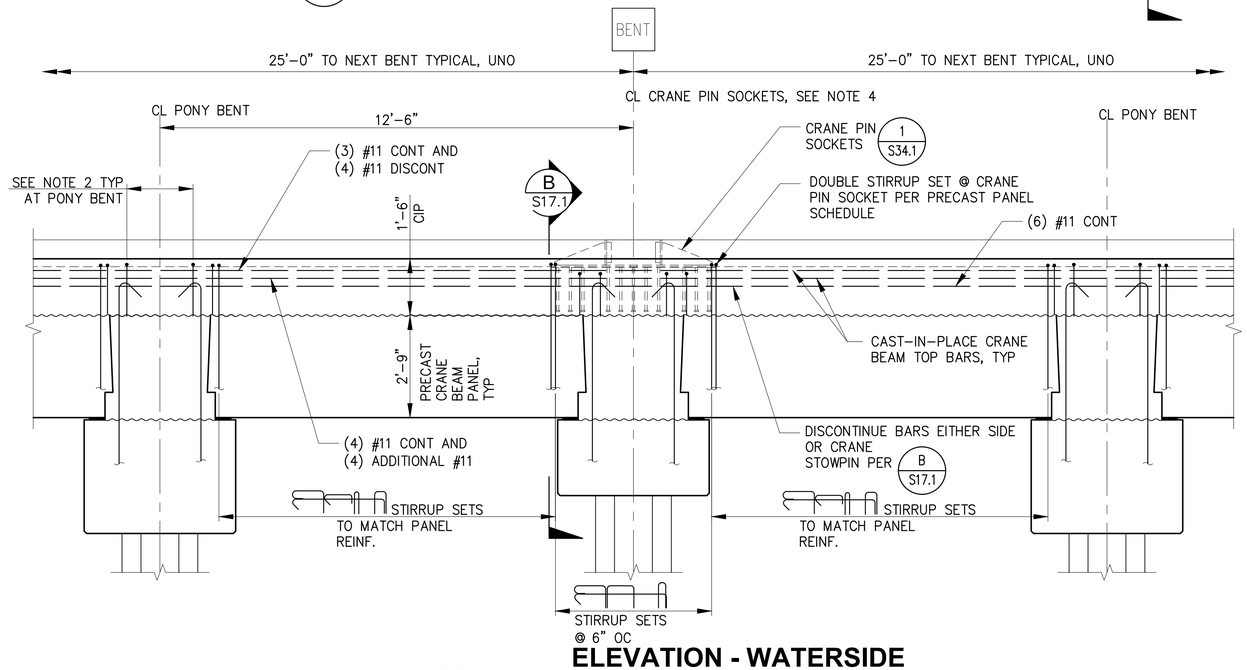
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S15.3
SH 259 OF 499



A ELEVATION - WATERSIDE CRANE BEAM AT CRANE STOP

A S4.1 — 1/2" = 1'–0"



B ELEVATION - WATERSIDE CRANE BEAM AT CRANE PIN SOCKET

B S4.1 — 1/2" = 1'–0"

NOTES:

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE B S10.1
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A S11.1
3. PONY BENT REINF. NOT SHOWN @ TIE DOWN SEE A S11.6
4. CRANE PIN SOCKET LOCATIONS PER PLAN, SEE SHEETS S5.1–S5.5
5. EXTEND TYPICAL CRANE BEAM TOP REINFORCEMENT 7'–7" PAST END OF RAIL AND PROVIDE 90° HOOK.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
tiemons Jul 20, 2018	PRINTED BY:		
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
AS NOTED	DRAWING SCALE:		

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
WATERSIDE CRANE BEAM ELEVATIONS - SHEET 1

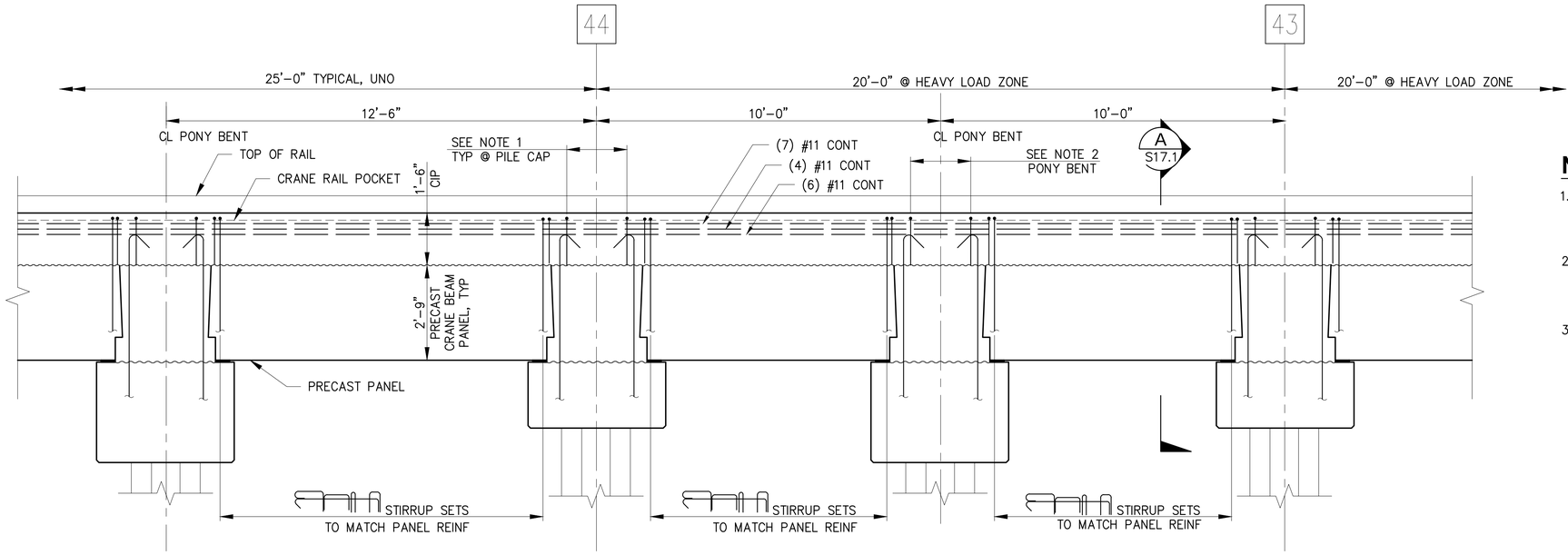
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S16.1
SH 260 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S16.1

BINDING EDGE



ELEVATION - WATER SIDE
BEAM AT HEAVY LOAD ZONE

A / S4.1

1/2"=1'–0"

NOTES:

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE B / S10.1
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A / S11.1
3. HEAVY LOAD ZONE LOCATION PER SHEET S5.3

RECORD DRAWINGS

S16.2

6552

SH 261 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PIER 4 PHASE 2
RECONFIGURATION
WATERSIDE CRANE BEAM ELEVATIONS - SHEET 2

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

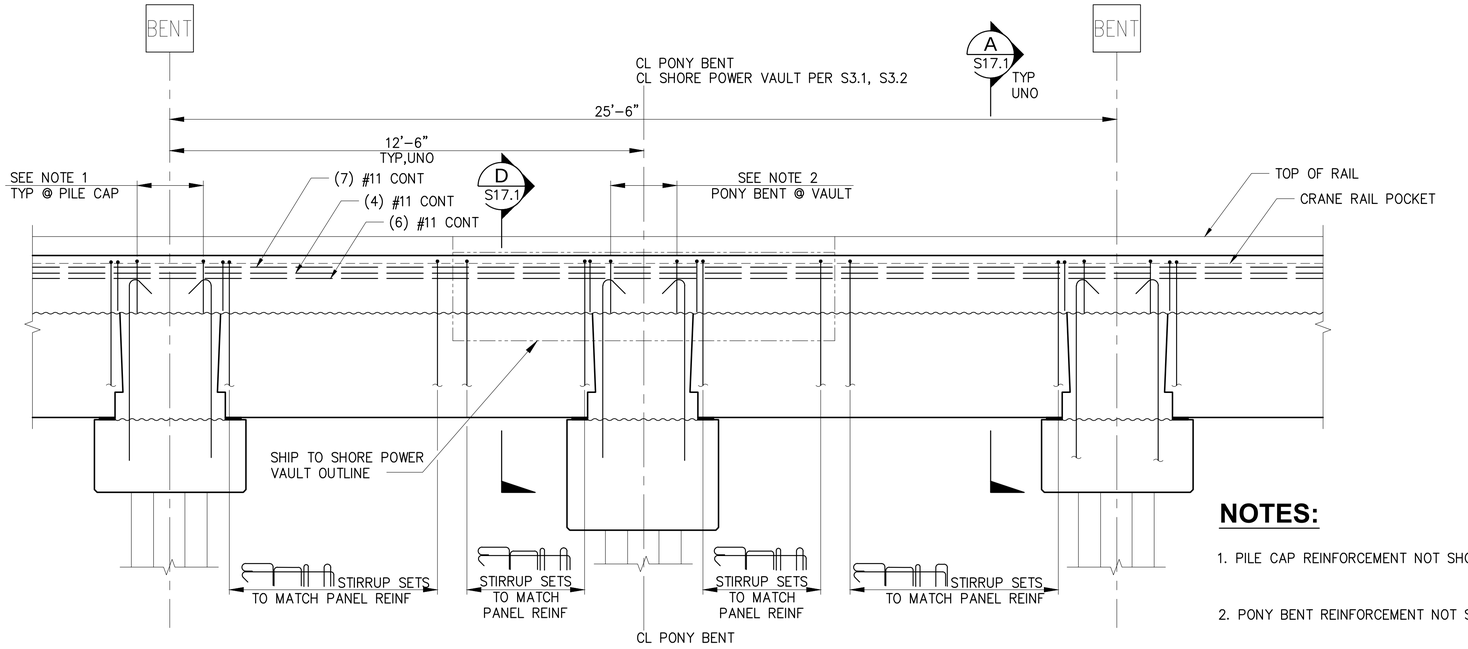
MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S16.2

BINDING EDGE

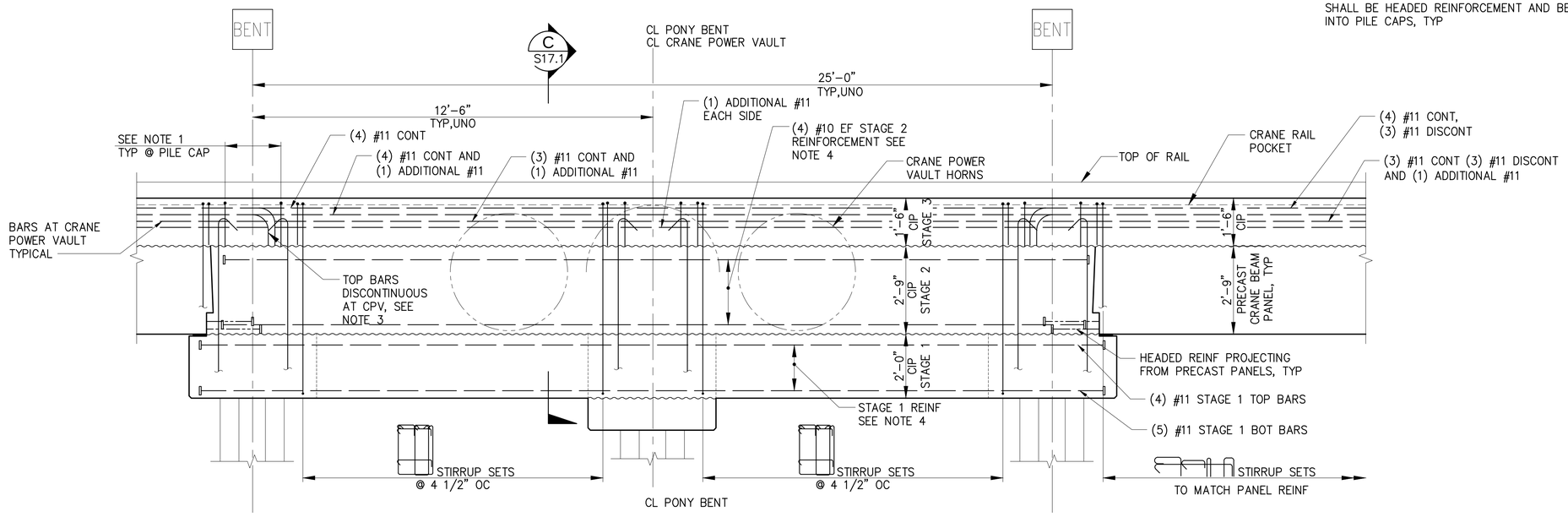


ELEVATION - WATERSIDE CRANE BEAM AT SHORE POWER VAULT

A S4.1 — 1/2"=1'-0"

NOTES:

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE B S10.1
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A S11.1
3. TYPICAL BARS CONTINUOUS THROUGH SECTION AT CRANE POWER VAULT, BARS IN CONFLICT SHALL HOOK @ CRANE POWER VAULT PER A S17.1
4. LONGITUDINAL REINFORCEMENT IN STAGE 1 AND STAGE 2 SHALL BE HEADED REINFORCEMENT AND BE EMBEDDED 3'-6" INTO PILE CAPS, TYP



ELEVATION - WATERSIDE CRANE BEAM AT CRANE POWER VAULT

B S4.1 — 1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	
CHECKED BY		DATE
	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE
PRINTED BY:	tlemons	Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
WATERSIDE CRANE BEAM ELEVATIONS - SHEET 3

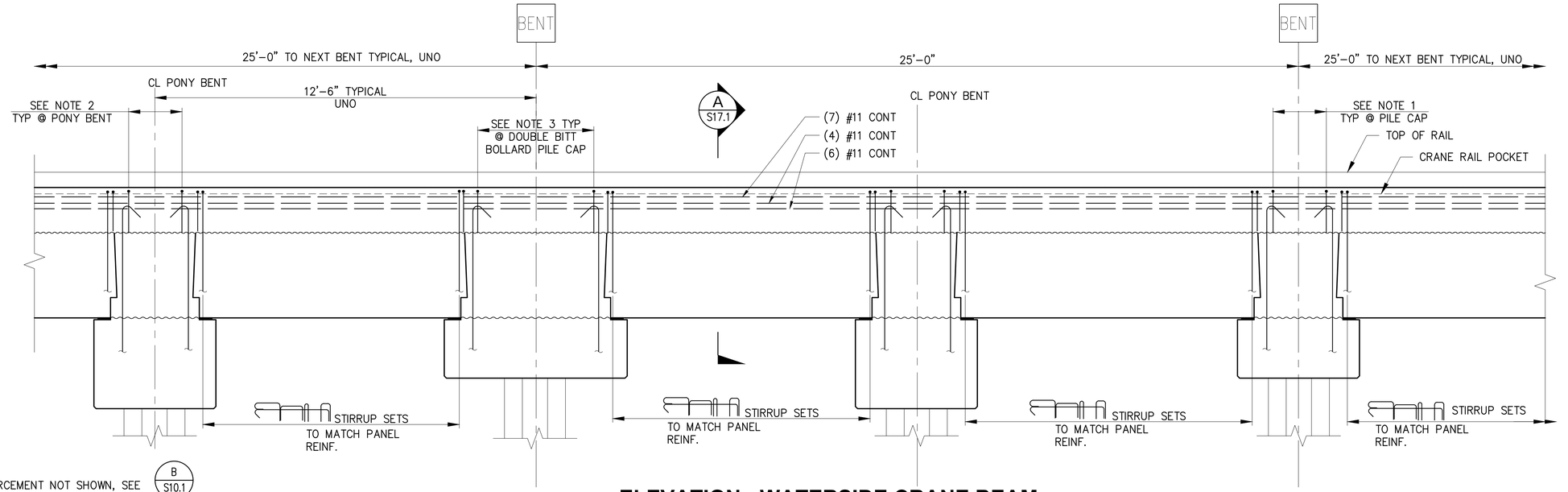
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
S16.3
SH 262 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S16.3

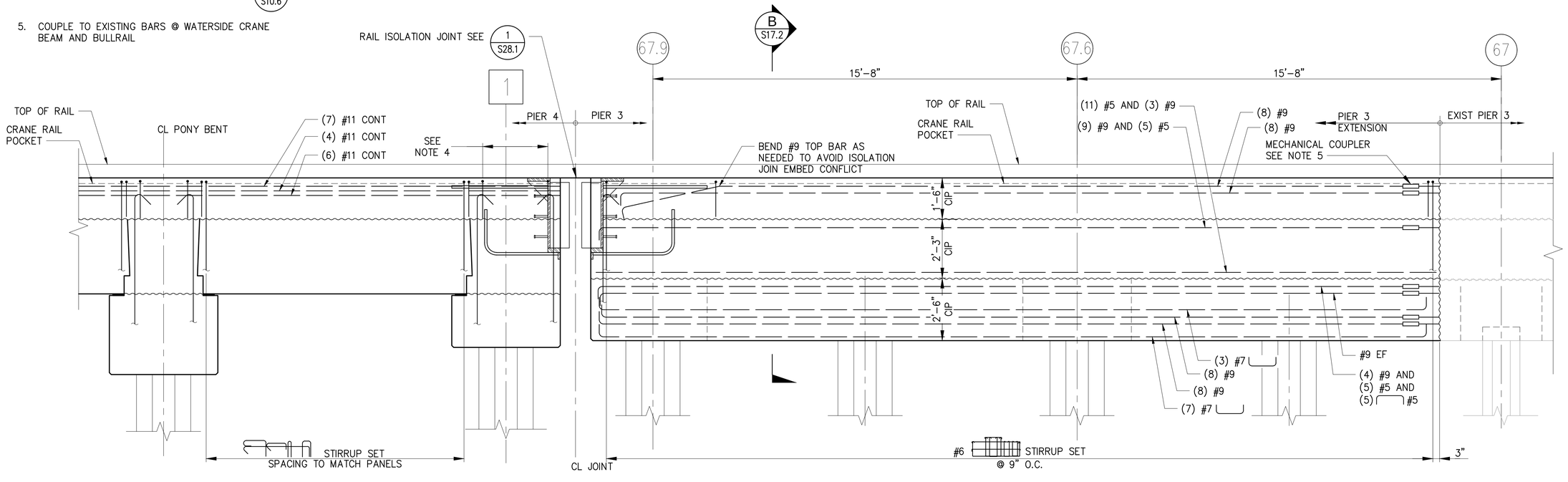


ELEVATION - WATERSIDE CRANE BEAM AT DOUBLE BITT BOLLARD

A S4.1 — 1/2"=1'–0"

NOTES:

1. PILE CAP REINFORCEMENT NOT SHOWN, SEE B S10.1
2. PONY BENT REINFORCEMENT NOT SHOWN, SEE A S11.1
3. PILE CAP REINFORCEMENT NOT SHOWN SEE B S10.2
4. PILE CAP REINFORCEMENT NOT SHOWN SEE B S10.6
5. COUPLE TO EXISTING BARS @ WATERSIDE CRANE BEAM AND BULLRAIL



ELEVATION - WATERSIDE CRANE BEAM AT EXPANSION JOINT

B S4.1 — 1/2"=1'–0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S16.4

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tiemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

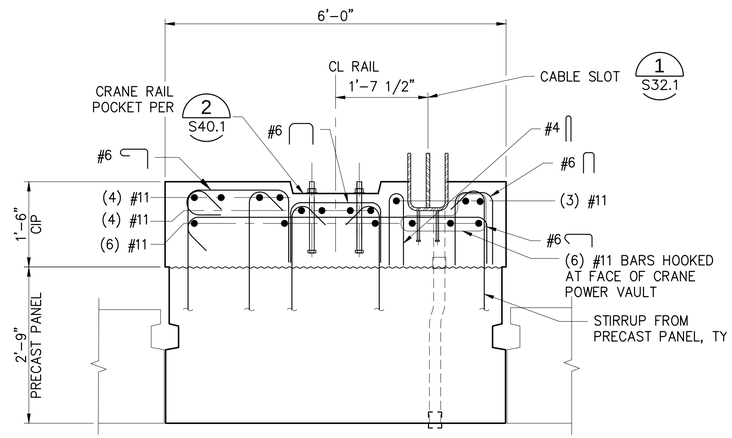
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
WATERSIDE CRANE BEAM ELEVATIONS - SHEET 4

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S16.4
SH 263 OF 499

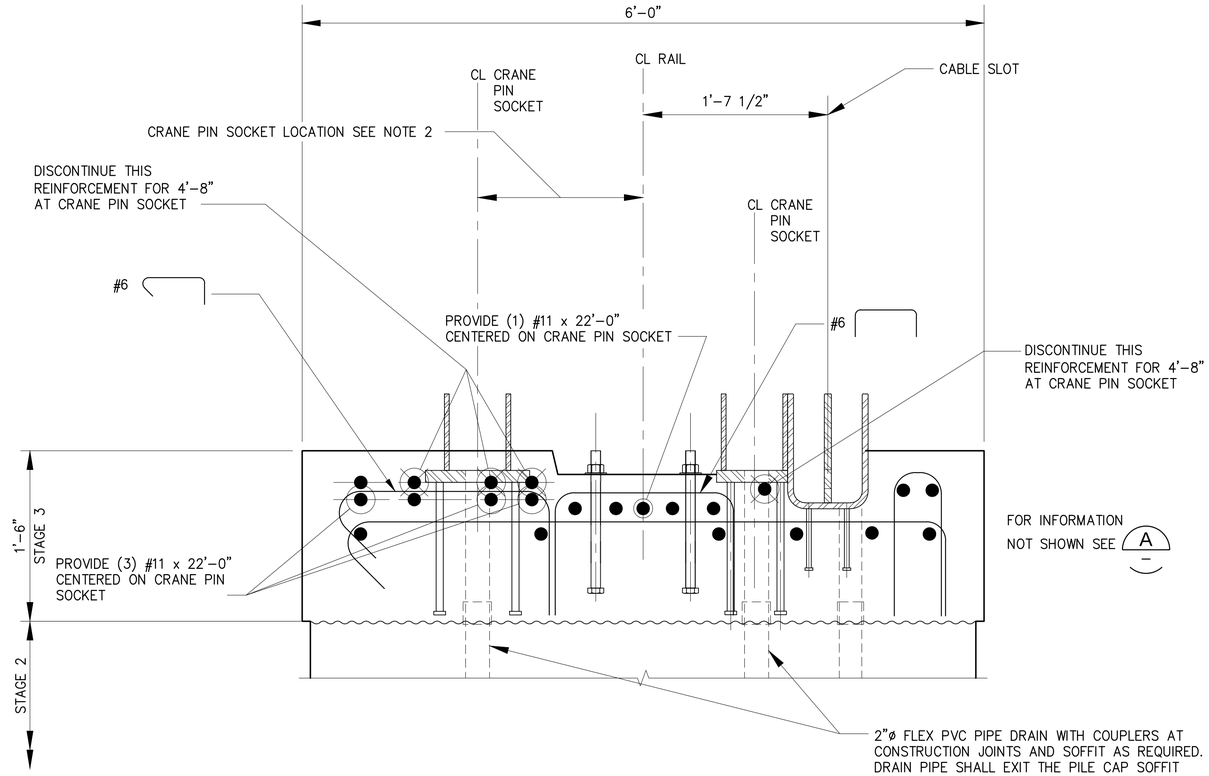
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



TYPICAL WATERSIDE CRANE BEAM SECTION

A
S11.1, S11.2, S16.1– S16.4

3/4"=1'-0"



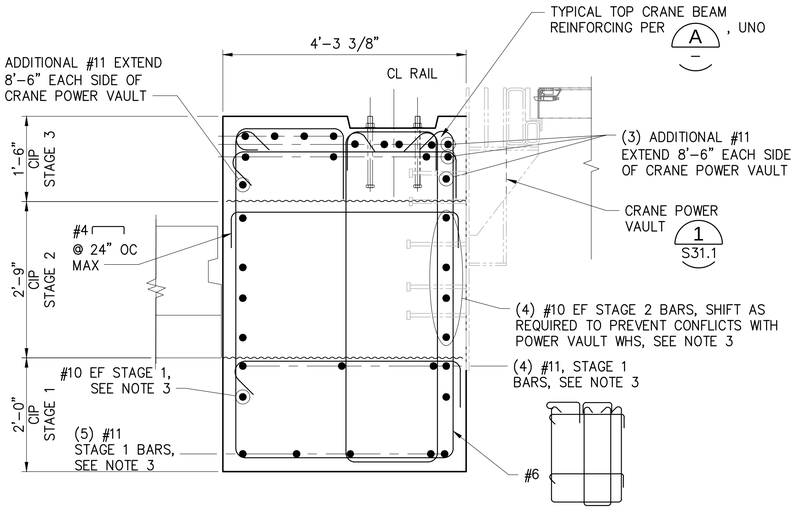
WATERSIDE CRANE BEAM AT CRANE PIN SOCKET

B
S16.1

1 1/2" = 1'-0"

NOTES

1. FOR CRANE PIN SOCKET LOCATIONS SEE SHEETS S5.1–S5.5
2. FOR CRANE PIN SOCKET DETAILS AND PLACEMENT SEE 1 S34.1
3. STAGE 1 AND STAGE 2 REINF. SHALL BE HEADED REINFORCEMENT, EXTEND 3'-6" INTO ADJACENT PILE CAPS, PER S16.3.

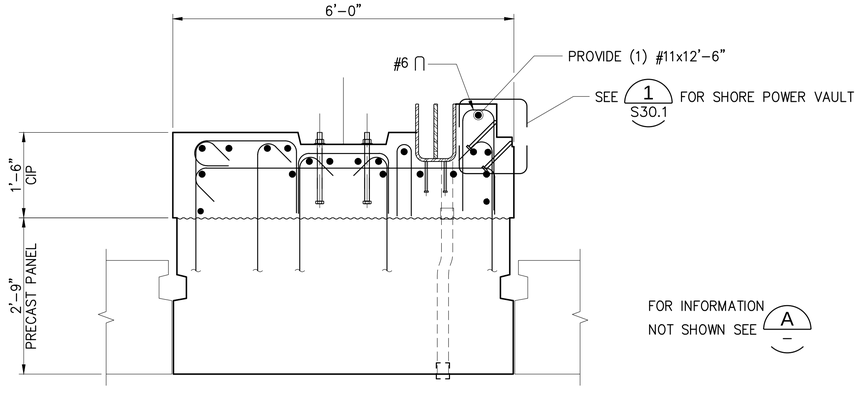


WATERSIDE CRANE BEAM AT CRANE POWER VAULT

C
S16.3

3/4" = 1'-0"

FOR INFORMATION
NOT SHOWN SEE
A
–



WATERSIDE CRANE BEAM SECTION AT SHORE POWER VAULT

D
S16.3

3/4" = 1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S17.1

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
PROJECT ENGR	DATE		

PIER 4 PHASE 2
RECONFIGURATION
WATERSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 1

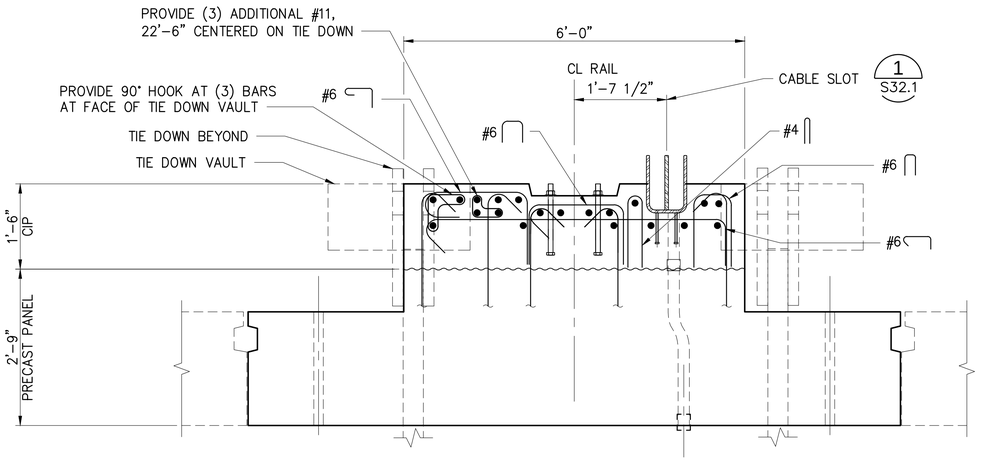
PRINTED BY:	tlem	TOWNSHIP:	RANGE:	SECTION:
PORT ADDRESS:	ONE SITCUM PLAZA	DAT–HRZ:	WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
	TACOMA, WA 98401-1837	PARCEL:	DRAWING SCALE:	AS NOTED

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

6552
S17.1
SH 264 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

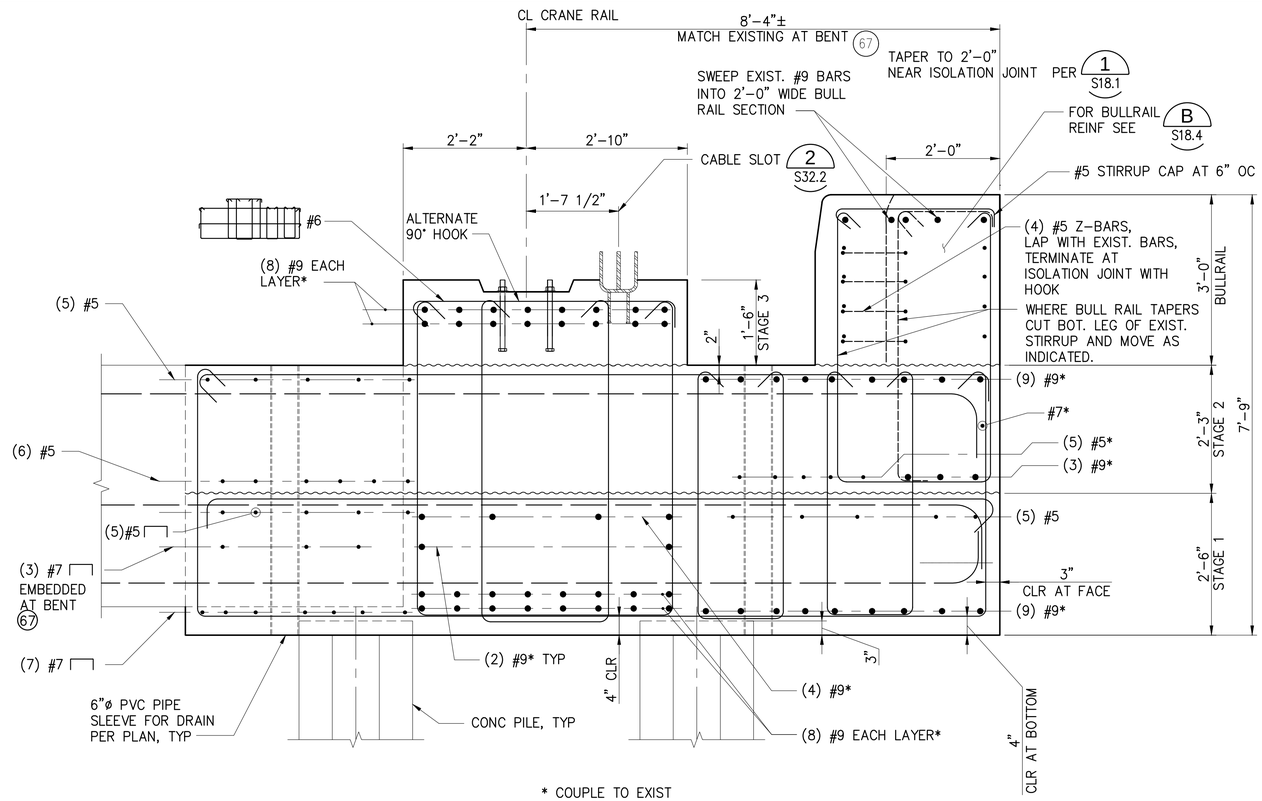
BINDING EDGE



FOR INFORMATION NOT SHOWN SEE A S17.1

A S16.1 WATERSIDE CRANE BEAM SECTION AT TIE DOWN

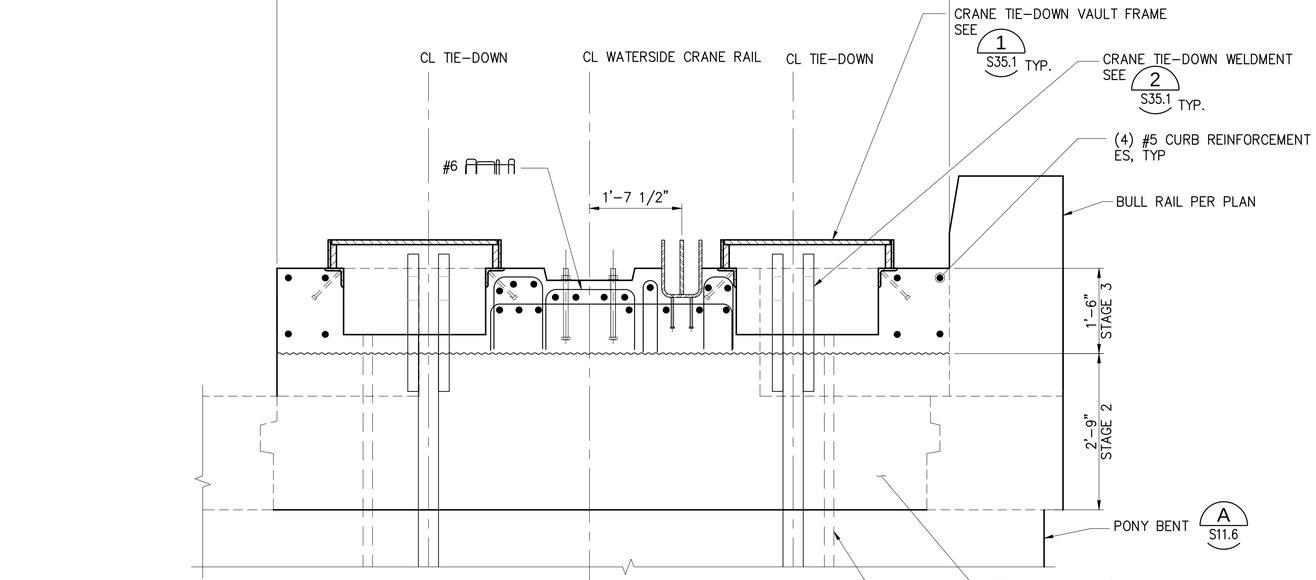
3/4"=1'-0"



* COUPLE TO EXIST

B S9.14, S16.4 WATERSIDE CRANE BEAM AT PILE CAP AT PIER 3 EXTENSION

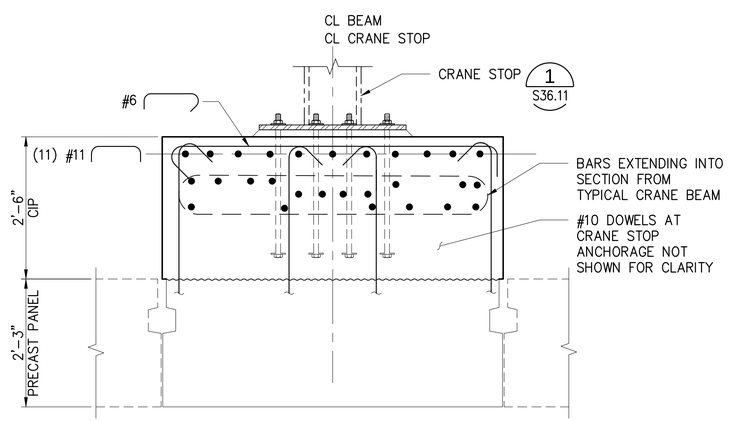
3/4"=1'-0"



FOR INFORMATION NOT SHOWN SEE A –

C S16.1 WATERSIDE CRANE BEAM SECTION AT TIE DOWN AT PONT BENT

3/4"=1'-0"



D S16.1 WATERSIDE CRANE BEAM SECTION AT CRANE STOP

3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE | SEK CHECKED BY DATE | TAH PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

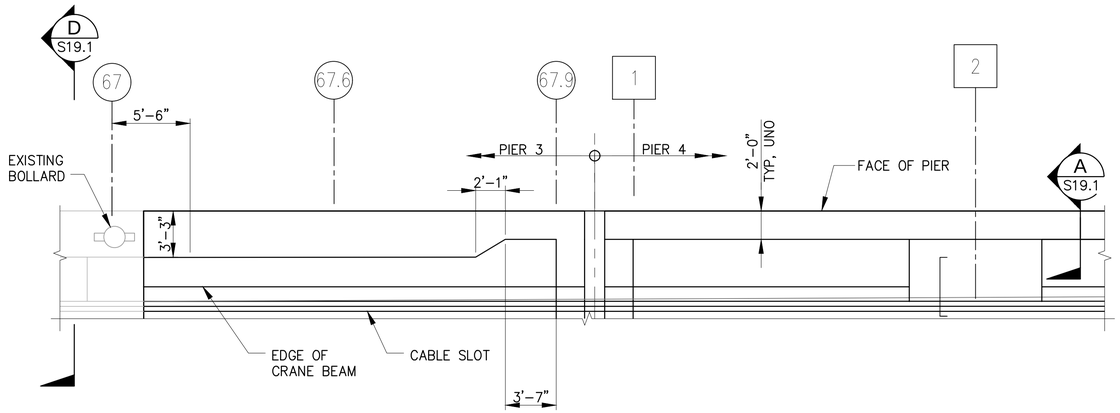
PIER 4 PHASE 2
RECONFIGURATION
WATERSIDE CRANE BEAM SECTIONS AND DETAILS - SHEET 2

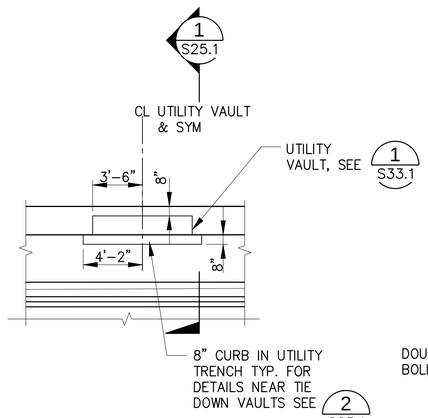
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

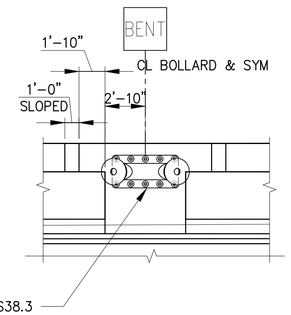
6552
S17.2
SH 265 OF 499

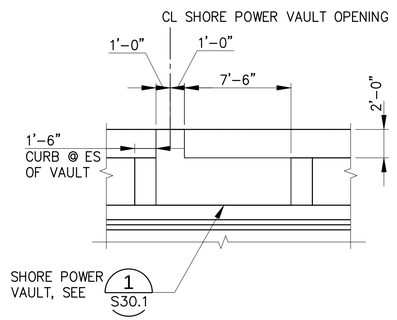
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

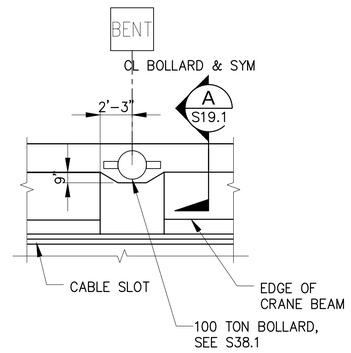
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\CurrentPhase 2_09125109125 1-S17.2

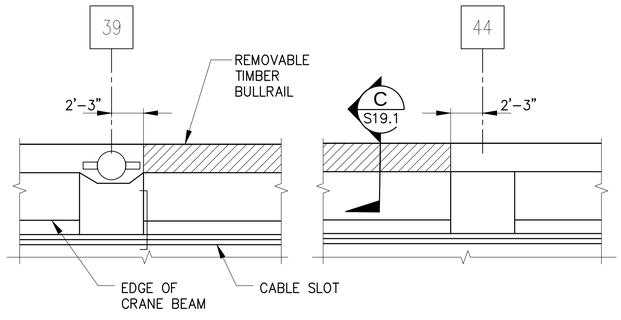


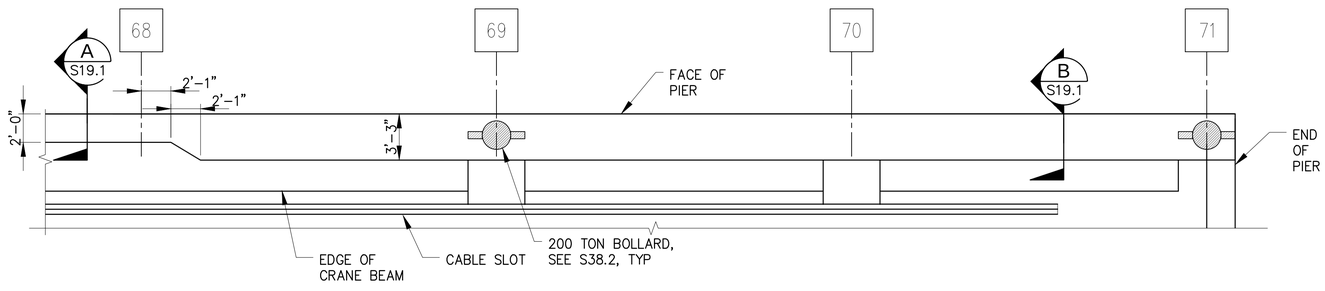








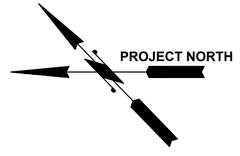




1 PLAN - BULLRAIL

S5.1 – S5.5 3/16"=1'-0"

S9.1, S9.3,–S9.5,
S9.7–S9.11,
S10.11, S17.2



NOTES:

1. AT BULLRAIL REINF DISCONTINUITIES PROVIDE STD 90 DEGREE HOOKS.
2. INSERTS FOR FENDER EMBEDS NOT SHOWN.
3. ACP AND BALLAST NOT SHOWN.
4. FENDER SYSTEM NOT SHOWN.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S18.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

APPROVED:

DIRECTOR ENG. DATE

SEC
CHECKED BY DATE
TAH
PROJ. ENGR DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

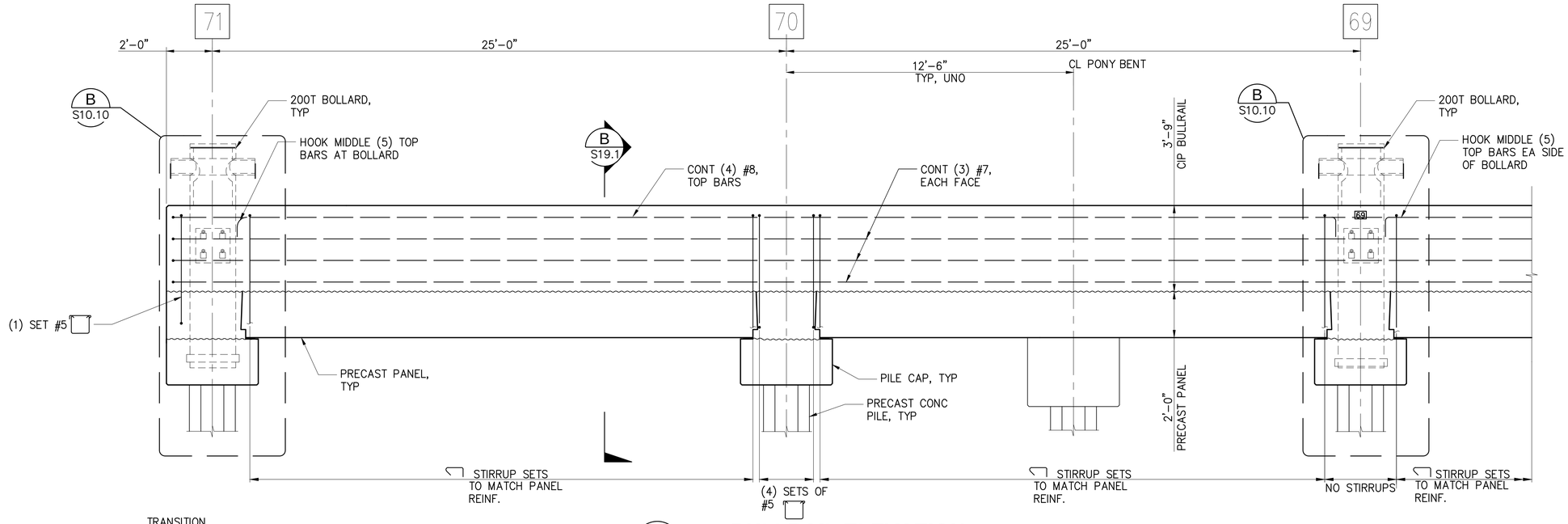
PIER 4 PHASE 2
RECONFIGURATION
BULLRAIL PLAN

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ:	VERT:	DRAWING SCALE: AS NOTED	
PARCEL:			

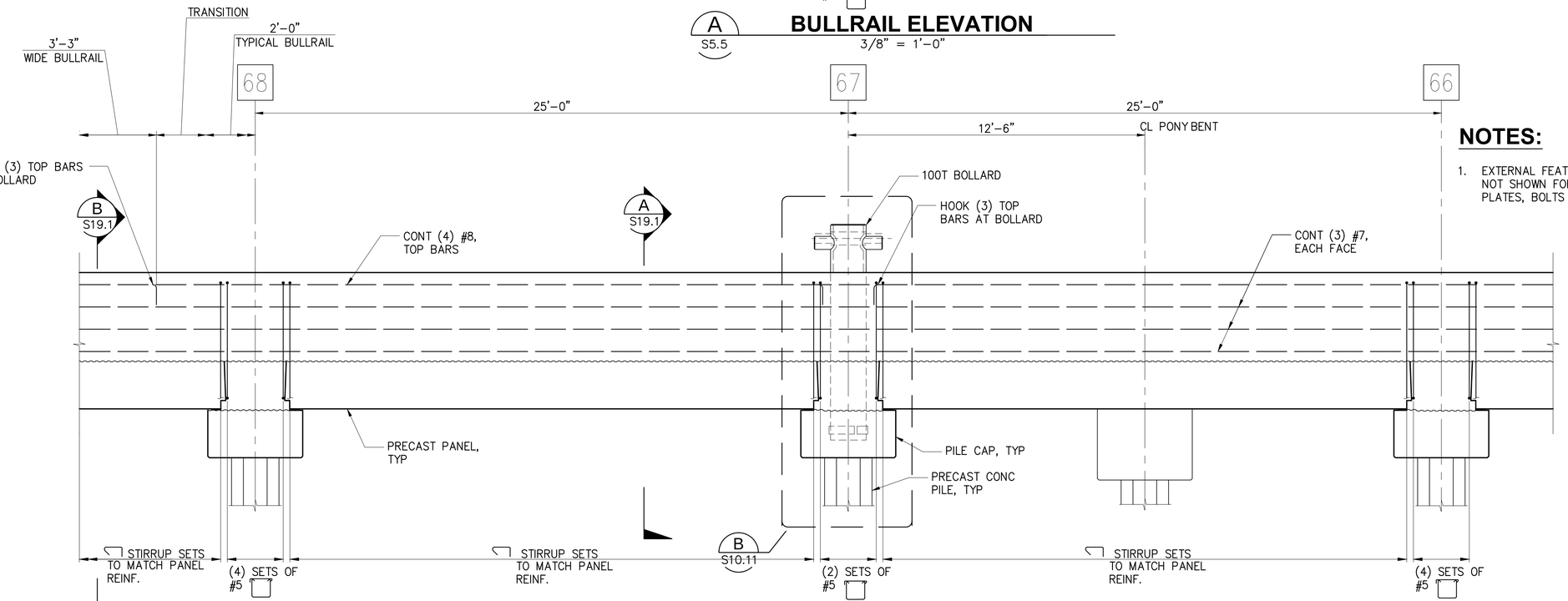
6552
S18.1
SH 266 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

BINDING EDGE



A S5.5 **BULLRAIL ELEVATION**
3/8" = 1'-0"



B S5.5 **BULLRAIL ELEVATION**
3/8" = 1'-0"

NOTES:

1. EXTERNAL FEATURES ATTACHED TO THE BULLRAIL NOT SHOWN FOR CLARITY. COORDINATE ALL EMBEDDED PLATES, BOLTS AND OTHER ITEM WITH REINFORCING.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY: PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

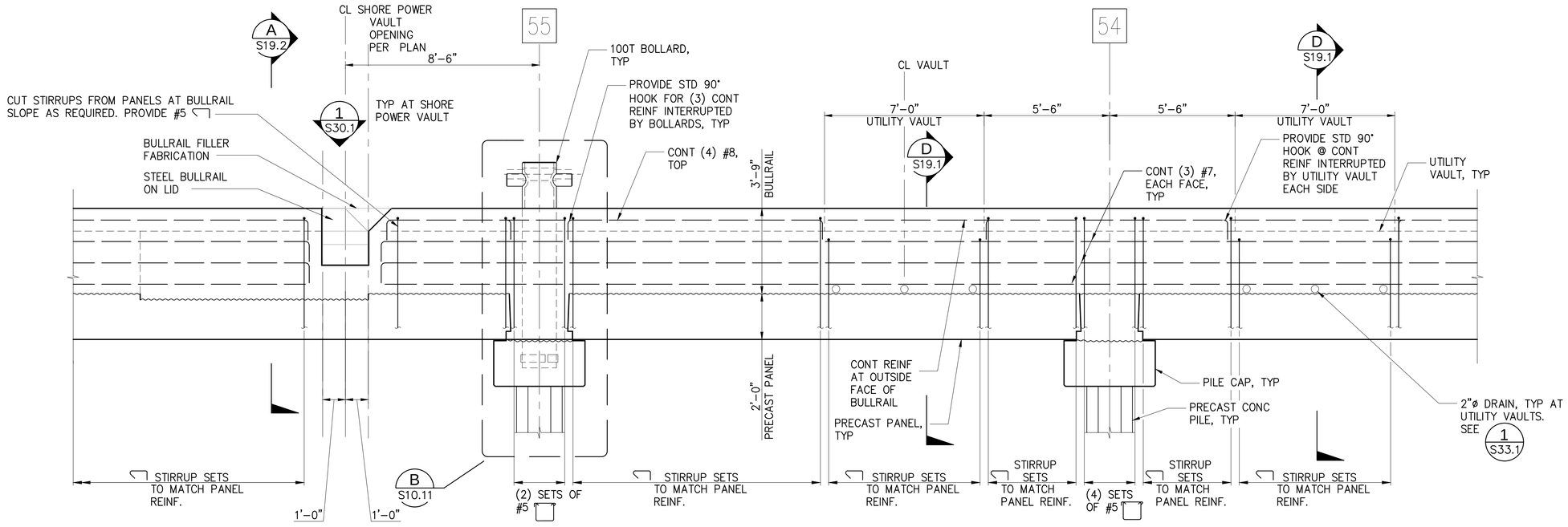
PIER 4 PHASE 2 RECONFIGURATION
BULLRAIL ELEVATIONS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39 @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S18.2
SH 267 OF 499

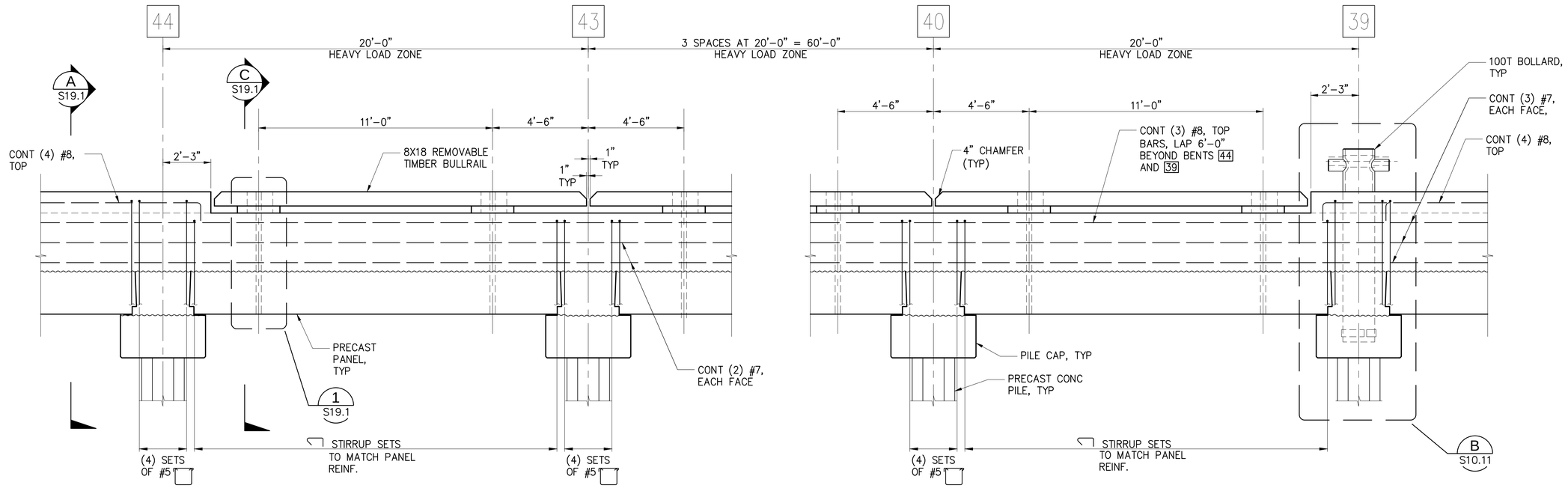
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S18.2



A S5.4 BULLRAIL ELEVATION

3/8" = 1'-0"



B S5.3 BULLRAIL ELEVATION

3/8" = 1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S18.3

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

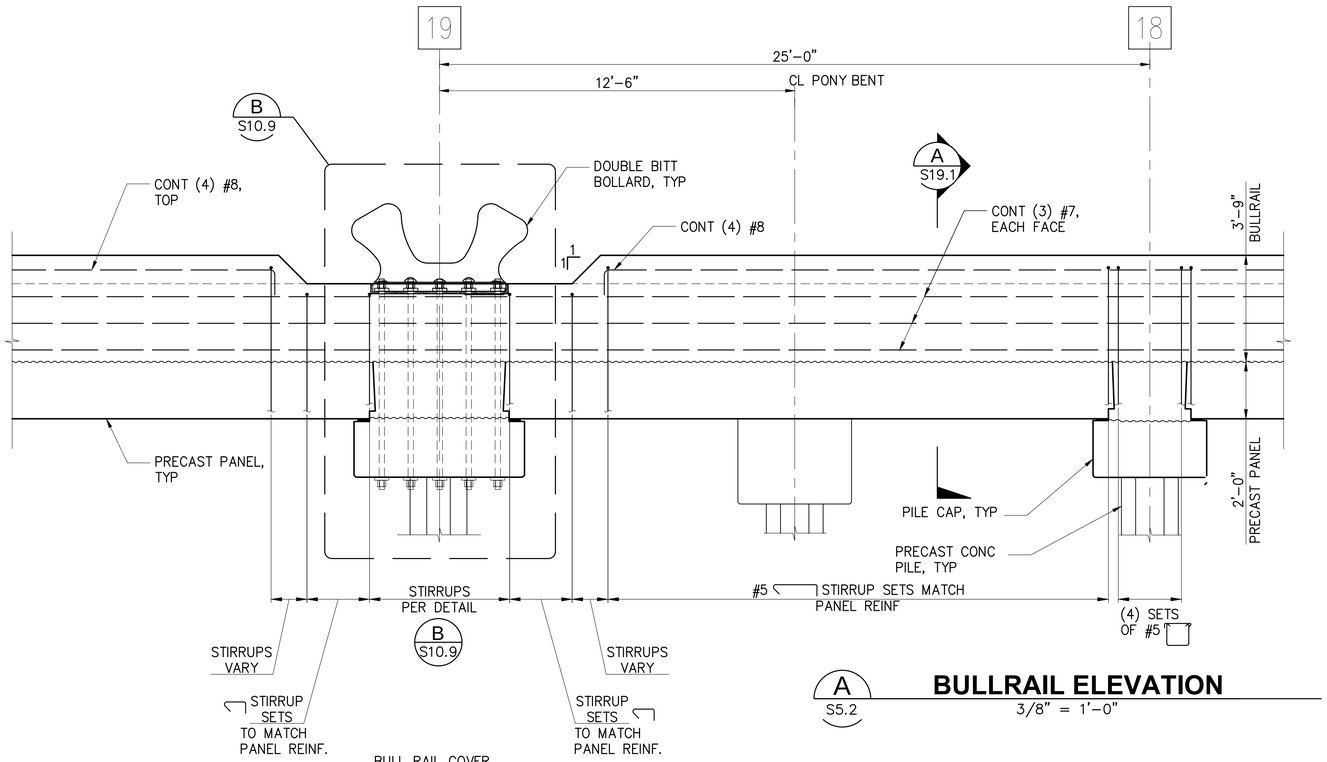
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

APPROVED:		SEK	CHECKED BY DATE
DIRECTOR ENG. DATE		TAH	PROJ. ENGR DATE
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

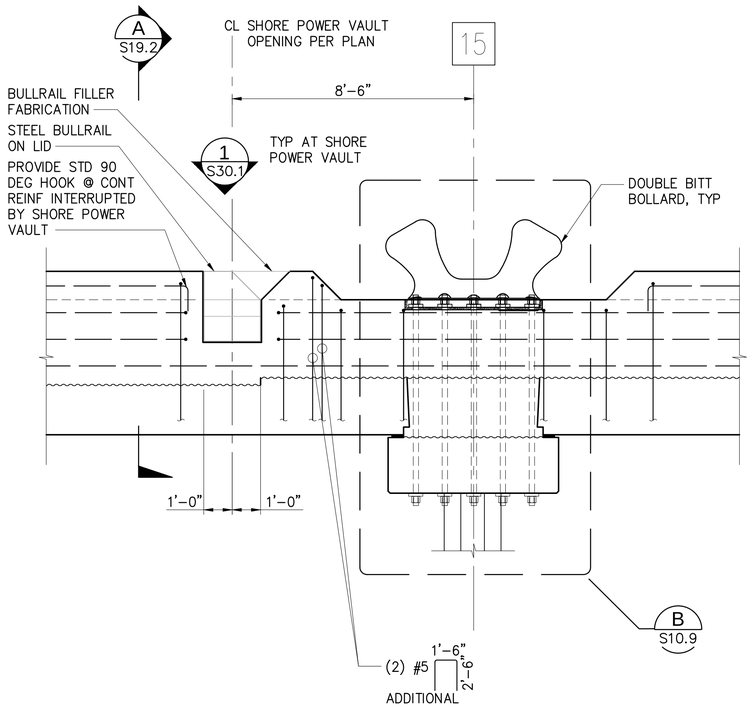
PIER 4 PHASE 2
RECONFIGURATION
BULLRAIL ELEVATIONS - SHEET 2

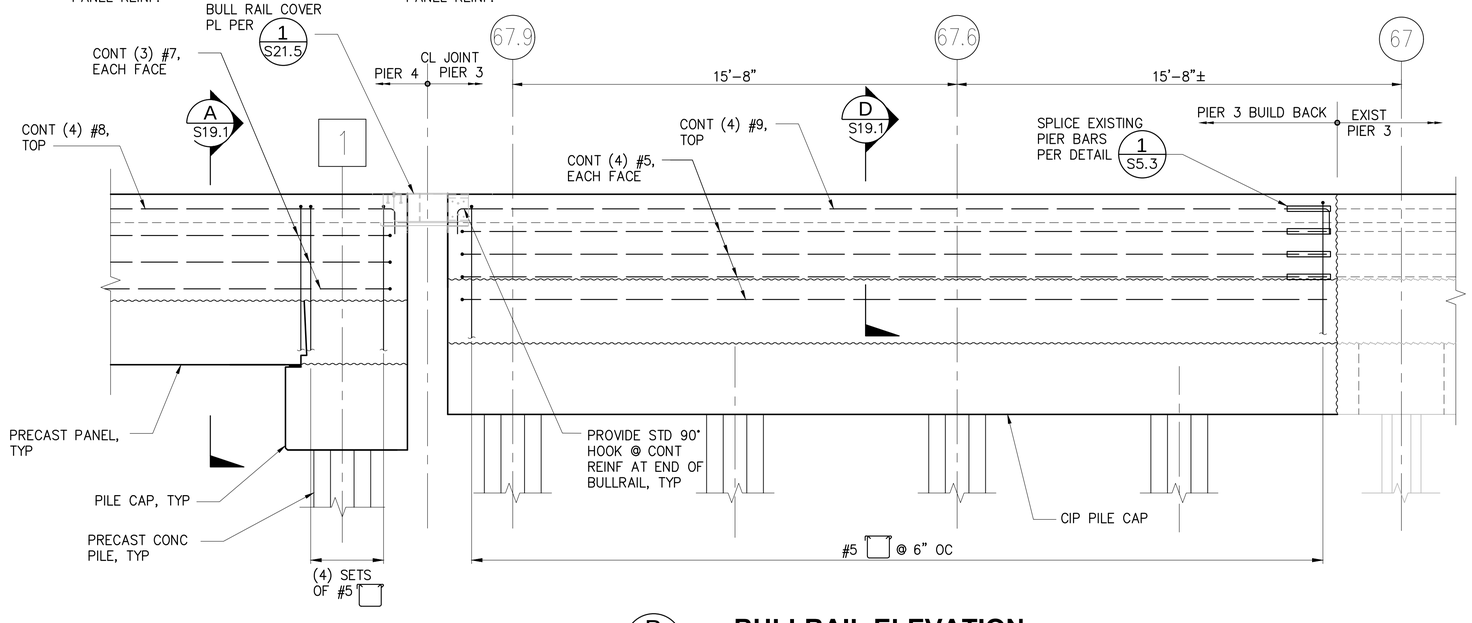
CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912S1	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

6552
S18.3
SH 268 OF 499



A S5.2 **BULLRAIL ELEVATION**
3/8" = 1'-0"





B S5.1 **BULLRAIL ELEVATION**
3/8" = 1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S18.4

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE
SEK	
CHECKED BY	DATE
TAH	
PROJ. ENGR	DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
BULLRAIL ELEVATIONS - SHEET 3

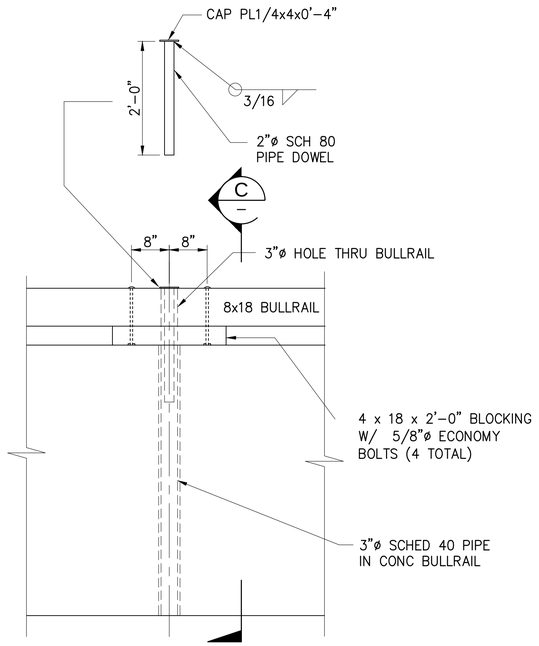
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S18.4
SH 269 OF 499

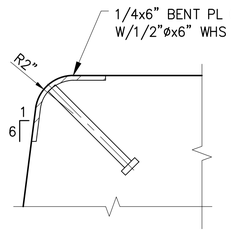
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



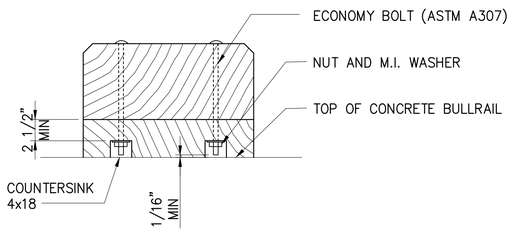
TYPICAL REMOVABLE BULLRAIL DETAIL

1 / S18.3 — 3/4"=1'-0"



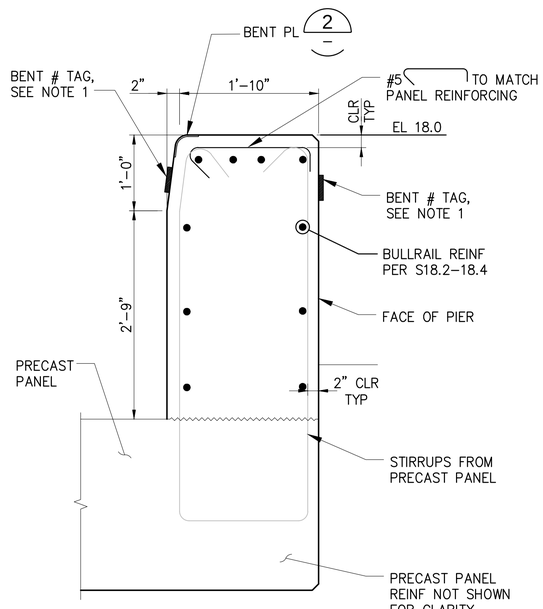
DETAIL - BENT PL CORNER GUARD

2 — 3"=1'-0"



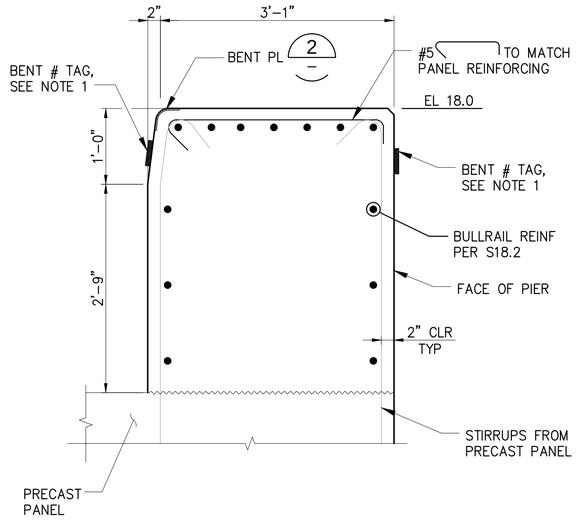
DETAIL

3 — 1 1/2"=1'-0"



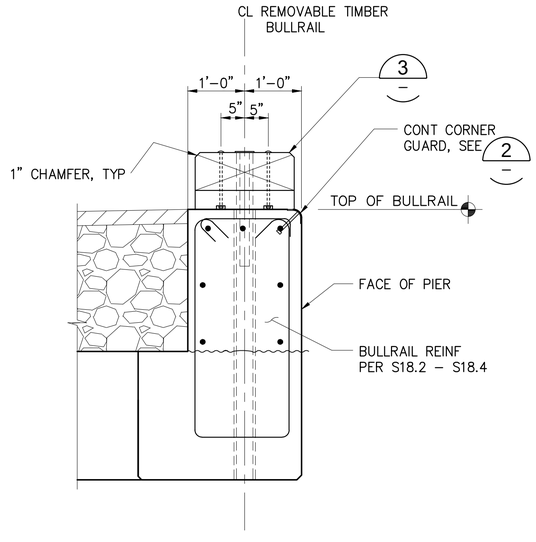
SECTION - TYPICAL BULLRAIL

A — S18.1 – S18.4 — 1"=1'-0"



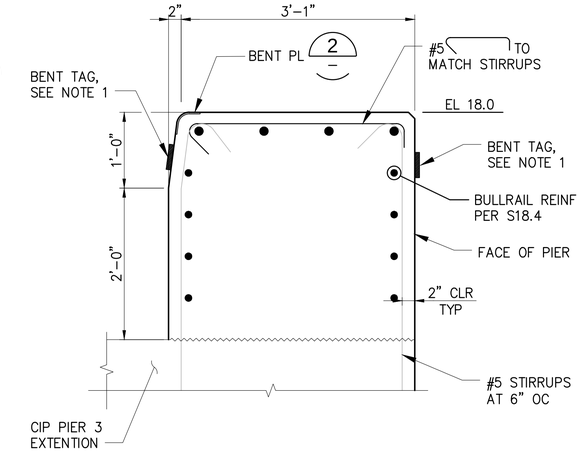
SECTION - WIDE BULLRAIL

B — S18.1, S18.2 — 1"=1'-0"



SECTION - REMOVABLE BULLRAIL DETAIL

C — S18.1 , S18.3 — 3/4"=1'-0"



SECTION PIER 3 EXTENSION BULLRAIL

D — S18.1, S18.4 — 1"=1'-0"

NOTES:

1. BENT # TAGS SHALL BE 1/8"x6"Wx4"H PHENOLIC PLASTIC LAMINATED BLACK WITH WHITE CORE. LETTERS SHALL BE 1" HIGH ENGRAVED TO EXPOSE WHITE CORE. EPOXY TAGS TO CONCRETE SURFACE (ROUGHEN BACK OF TAGS PRIOR TO APPLYING EPOXY). PROVIDE BENT # TAGS AT BENT LINES 1 THROUGH 71.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEC		
CHECKED BY		DATE
TAH		
PROJ. ENGR		DATE
PRINTED BY:	tlemons	Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
BULLRAIL SECTIONS AND DETAILS

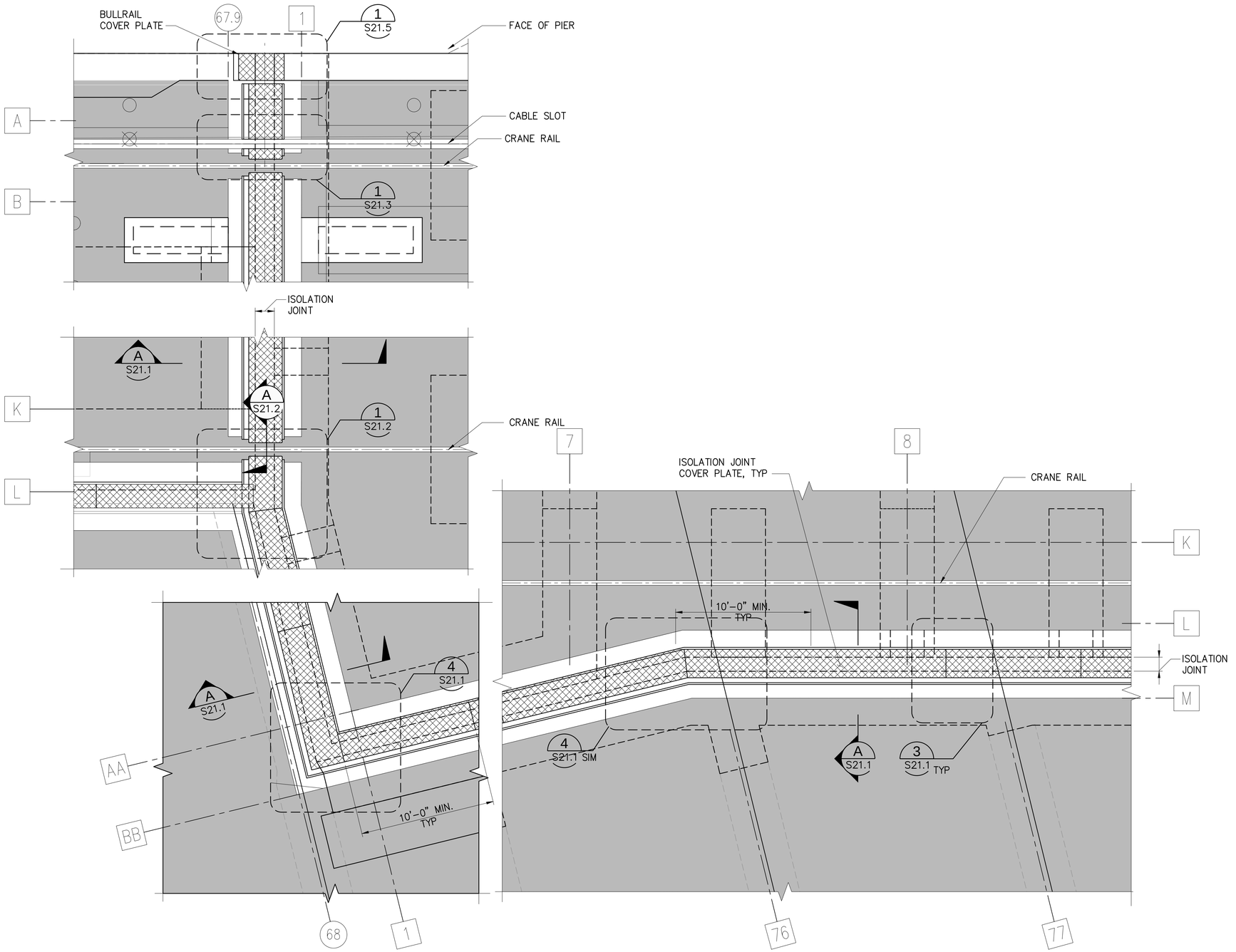
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ:	VERT:
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S19.1
SH 270 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S19.1



PIER ISOLATION JOINT PARTIAL PLAN

1 — S5.1 – S10.4 – S15.3 — 1/4"=1'-0"

LEGEND:

- PROPOSED ACP
- STEEL COVER PLATE
- CONCRETE

PROJECT NORTH

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S20.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535353641

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 | Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK	DESIGNED BY
SEK	DRAWN BY
SEK	CHECKED BY
TAH	DATE
PROJ. ENGR	
Jul 20, 2018	DATE
PRINTED BY: tlemons	
PORT ADDRESS:ONE SITCUM PLAZA	
TACOMA, WA 98401-1837	

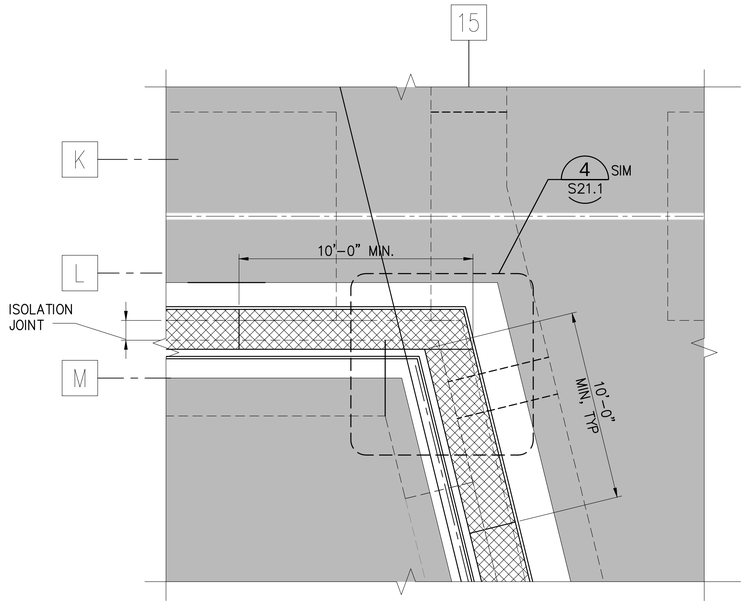
PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT PARTIAL PLANS - SHEET 1

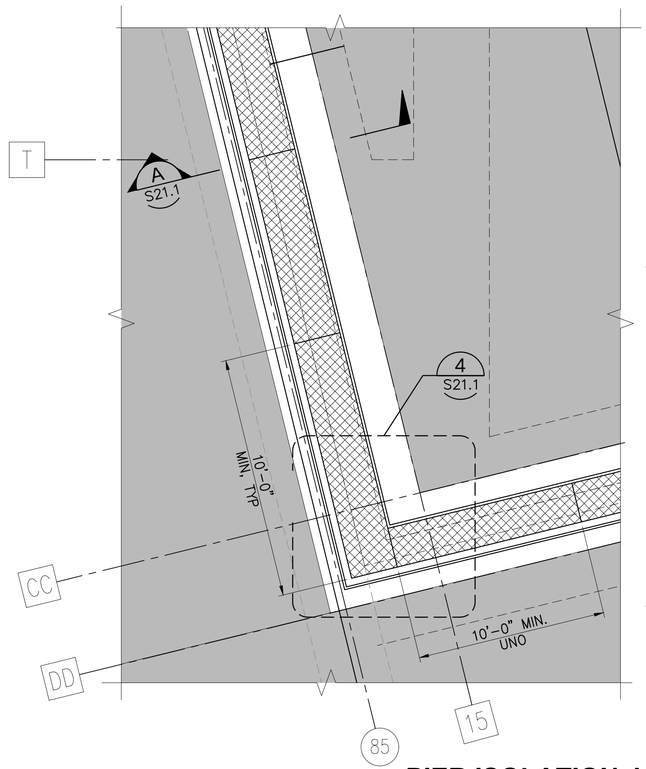
CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED
TOWNSHIP:	21N
RANGE:	3E
SECTION:	27
DAT-HRZ:	WA83-SF
VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:	
DRAWING SCALE:	AS NOTED

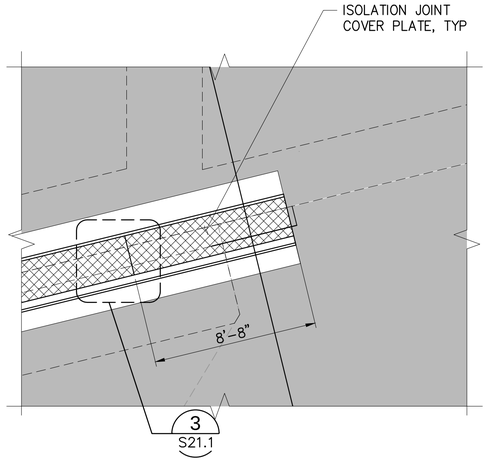
6552
S20.1
SH 271 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE







PIER ISOLATION JOINT PARTIAL PLAN

1 / S5.2 — 1/4"=1'-0"

LEGEND:

- PROPOSED ACP
- STEEL COVER PLATE
- CONCRETE

PROJECT NORTH

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S20.2

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE | SEK CHECKED BY DATE | TAH PROJ. ENGR DATE

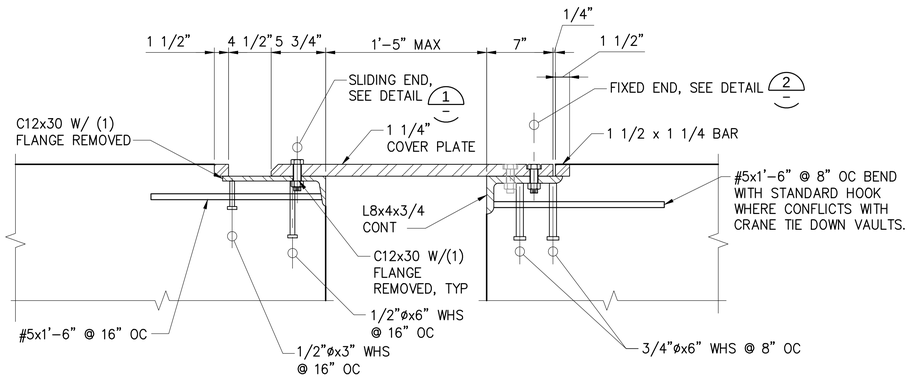
PRINTED BY: tiernons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT PARTIAL PLANS - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

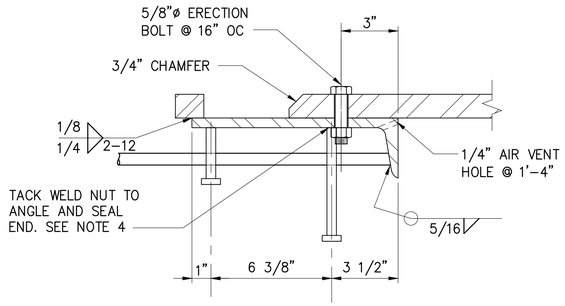
6552
S20.2
SH 272 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



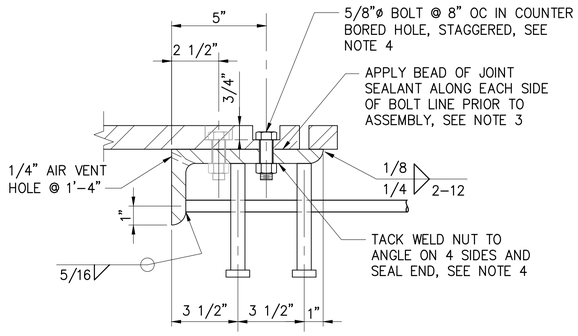
A TYPICAL ISOLATION JOINT

S20.1, S20.2 — 1 1/2"=1'-0"



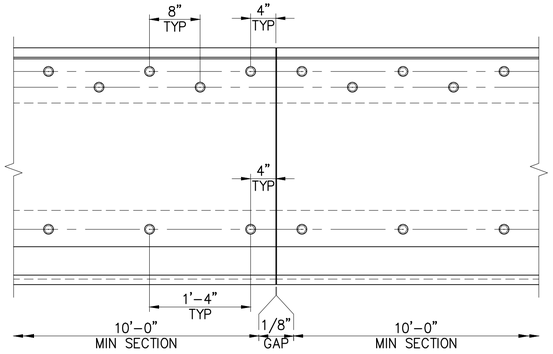
1 DETAIL - SLIDING END

S10.5 — 3"=1'-0"



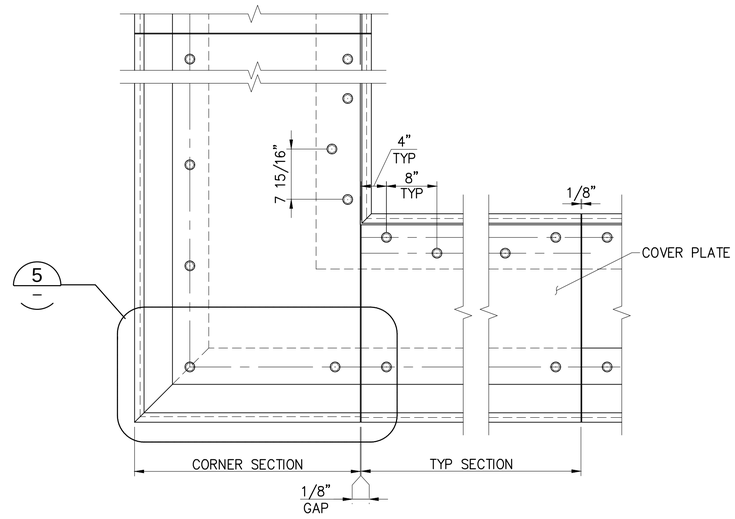
2 DETAIL - FIXED END

S10.6 — 3"=1'-0"



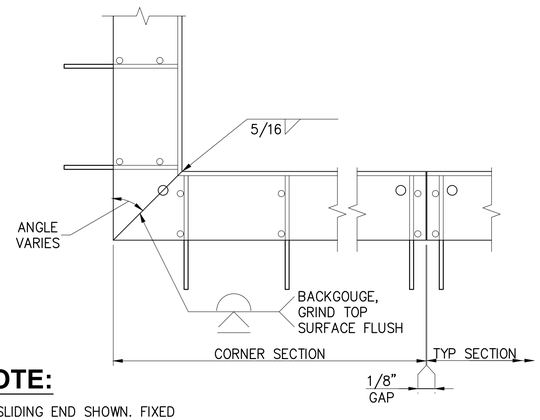
3 DETAIL - TYPICAL JOINT

S20.1, S20.2 — 1"=1'-0"



4 DETAIL - CORNER JOINT

S20.1, S20.2 — 1"=1'-0"



NOTE:

1. SLIDING END SHOWN. FIXED END SIMILAR.

5 DETAIL - EMBED CONNECTION

1"=1'-0"

NOTES:

1. SUGGESTED CONSTRUCTION SEQUENCE:
   A. ASSEMBLE ISOLATION JOINT AS ONE UNIT USING THE ERECTION BOLTS IN THE SLIDING EMBED TO SECURE IT TO THE PLATE.
   B. SUPPORT ASSEMBLY IN FORMWORK AND LEVEL.
   C. CAST CONCRETE FLUSH WITH EMBEDS.
   D. REMOVE ERECTION BOLTS FROM SLIDING END AND FILL HOLES WITH SEALANT (NOTE 3) IMMEDIATELY.
   E. PLATE MAY BE REMOVED AS NEEDED TO FACILITATE FORMWORK. CONCRETE SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS FOR FORMWORK REMOVAL.
2. CONTRACTOR SHALL ENSURE ASSEMBLY IS LEVEL AND PLATES SITS FLUSH WITH EMBED SURFACE. COVER PLATE SHALL NOT ROCK, WARP OR BUCKLE AFTER ERECTION BOLTS ARE REMOVED.
3. SEALANT SHALL BE SIKAFLEX 1A (ONE PART POLYURETHANE ELASTOMERIC SEALANT/ADHESIVE) OR APPROVED EQUIVALENT.
4. END OF NUTS SHALL BE SEALED TO PREVENT CONCRETE INTRUSION INTO THE THREADS APPLY THREAD LOCKER COMPOUND (LOCTITE 242 OR APPROVED EQUAL) TO BOLT/NUT DURING FINAL ASSEMBLY.
5. COVER PLATE AND EMBED SECTIONS SHALL COME IN 10'-0" MINIMUM SEGMENTS.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S21.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

CHECKED BY SEK DATE

PROJ. ENGR TAH DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

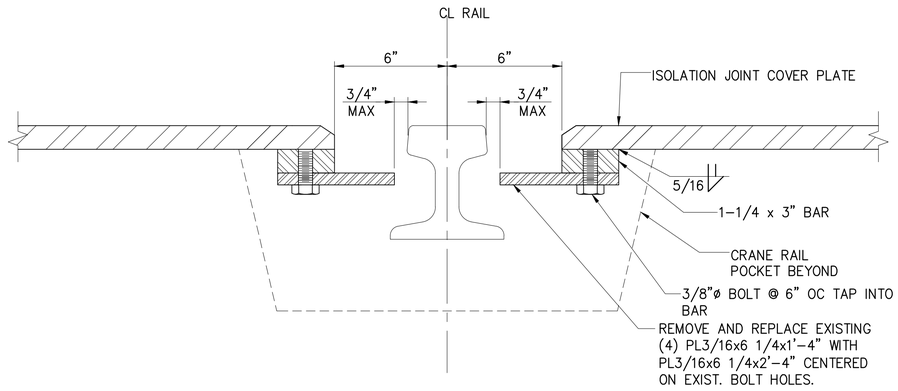
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT DETAILS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S21.1
SH 273 OF 499

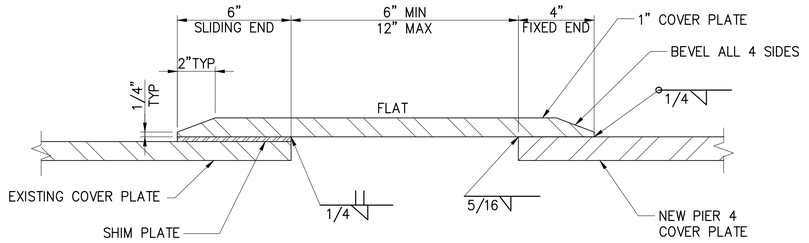
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



A
S20.1, S21.4

SECTION

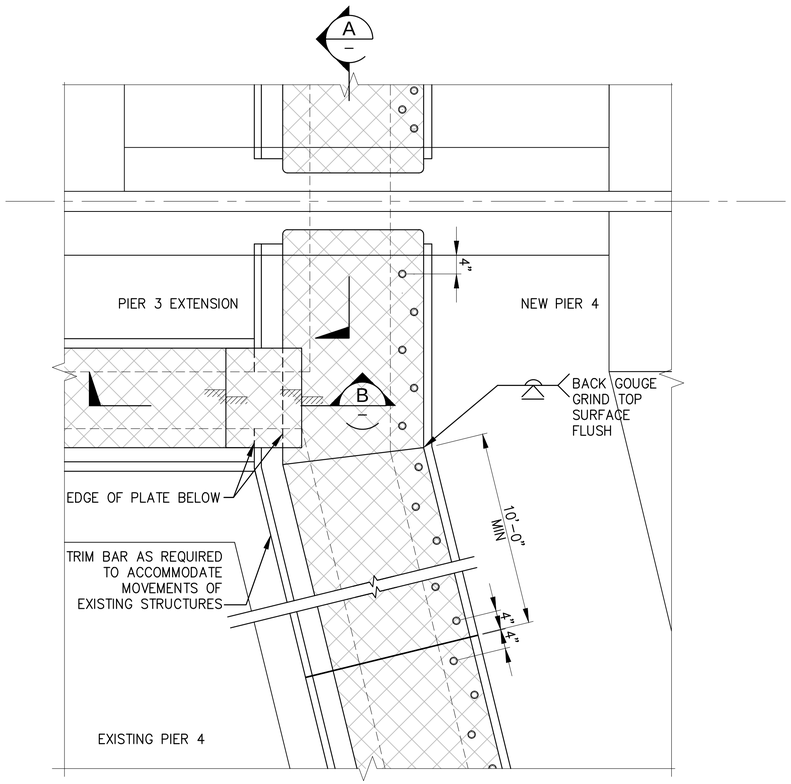
SCALE: 3"=1'-0"



B
–

SECTION- JOINT INTERSECTION

SCALE: 3"=1'-0"



1
S20.1

DETAIL JOINT INTERSECTION

SCALE: 3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S21.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 PRINTED BY: DATE
TACOMA, WA 98401-1837 PORT ADDRESS: ONE SITCUM PLAZA

APPROVED:
DIRECTOR ENG. DATE

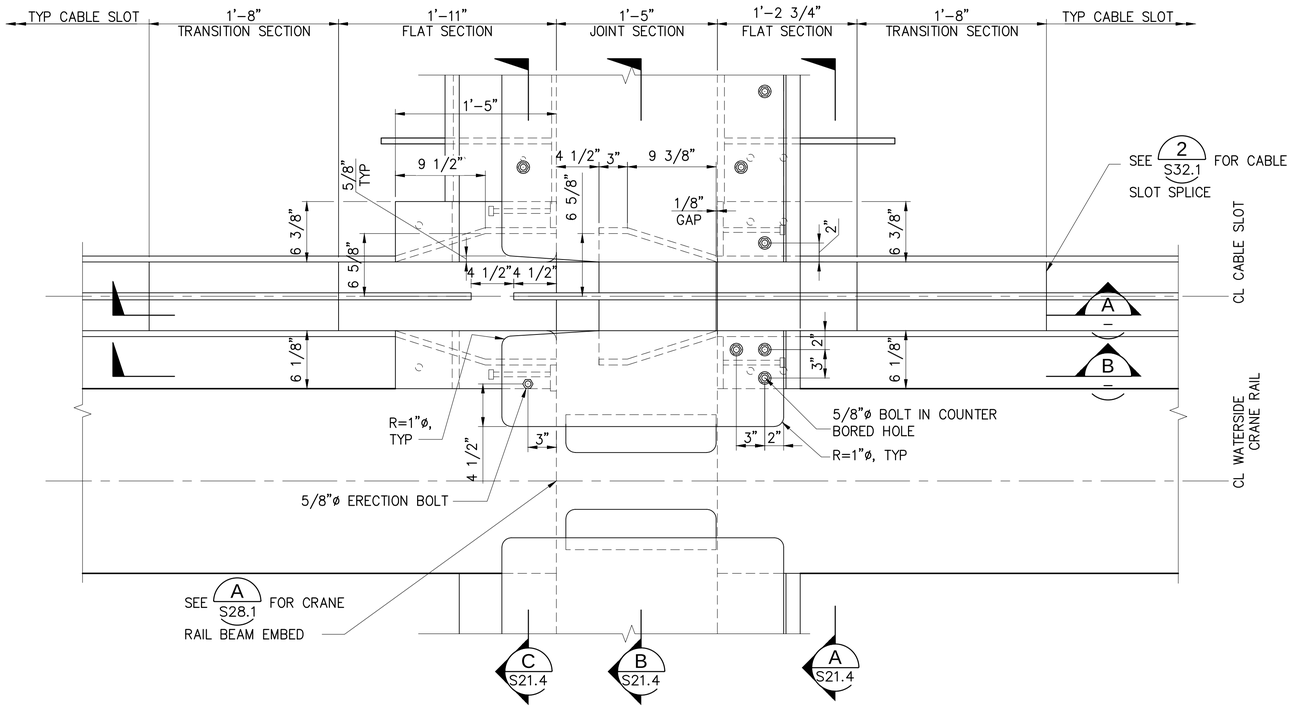
PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT DETAILS - SHEET 2

6552
S21.2
SH 274 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

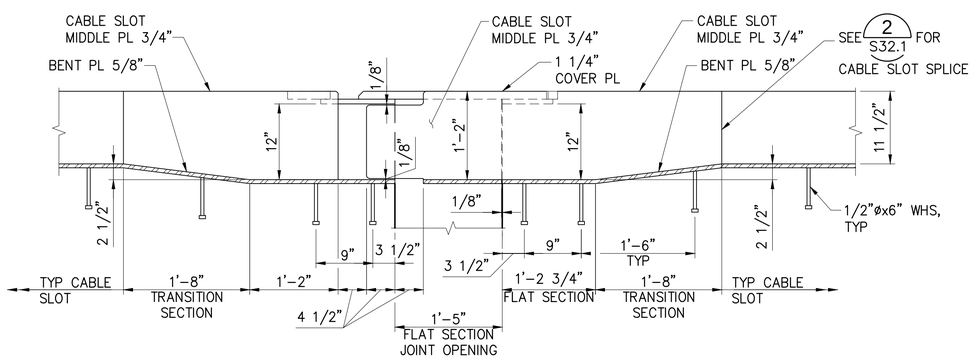
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



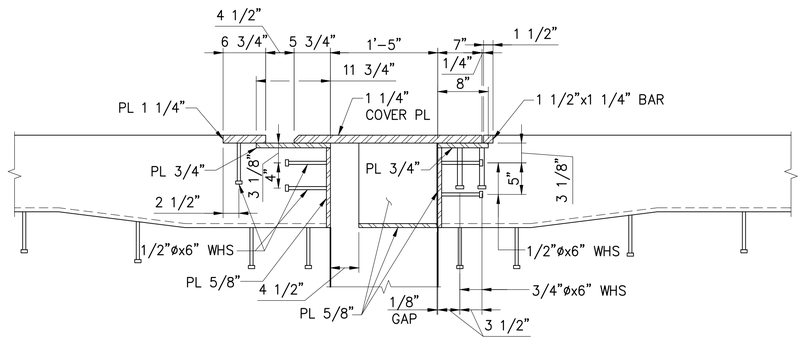
DETAIL - CABLE SLOT ISOLATION JOINT

1 S20.1 — 1 1/2""=1'-0"



A SECTION

1"=1'-0"



B SECTION

1"=1'-0"

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

	SEK		
	CHECKED BY		DATE
	TAH		
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY: tlemons		Jul 20, 2018	
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
DRAWING SCALE: AS NOTED			

PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT DETAILS - SHEET 3

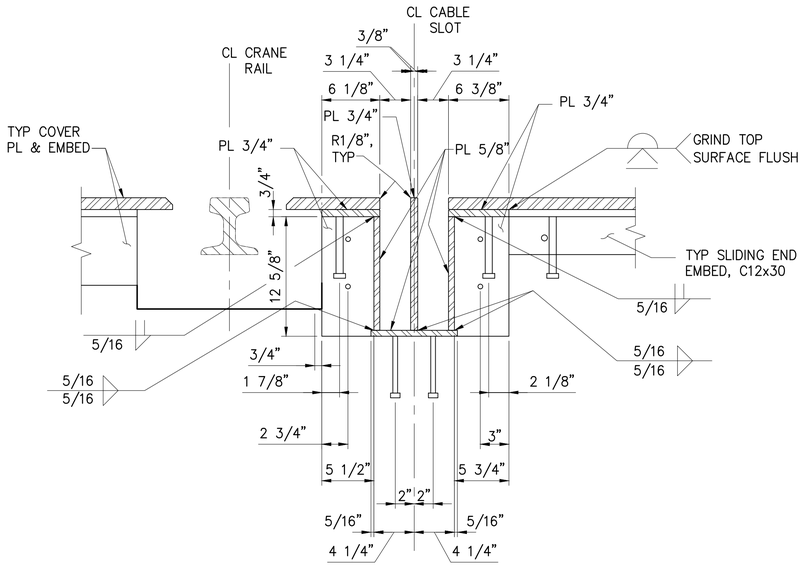
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	

SECTION: 27

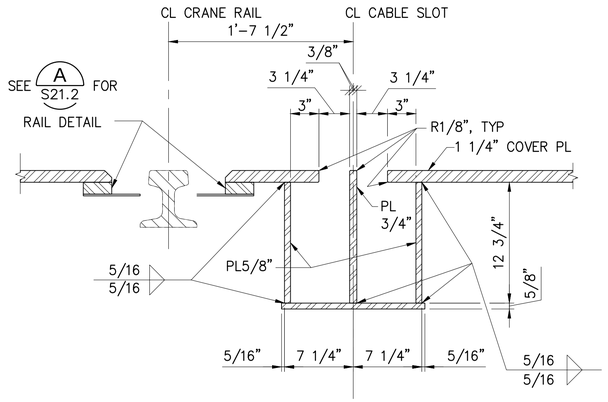
6552
S21.3
SH 275 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

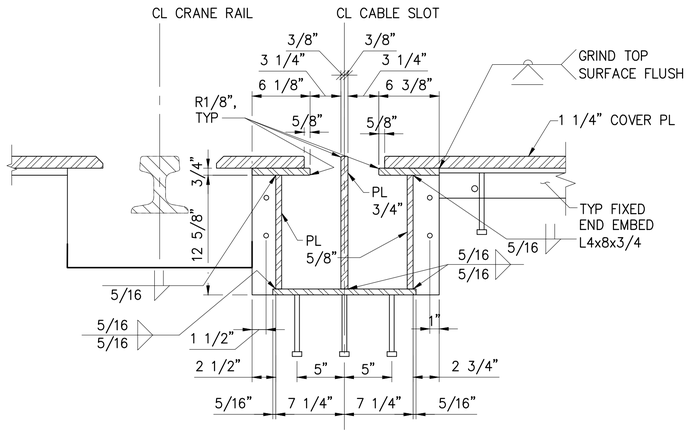
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S21.3



A S21.3 **SECTION**
1 1/2"=1'-0"



B S21.3 **SECTION**
1 1.2"=1'-0"



C S21.3 **SECTION**
1"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S21.4

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

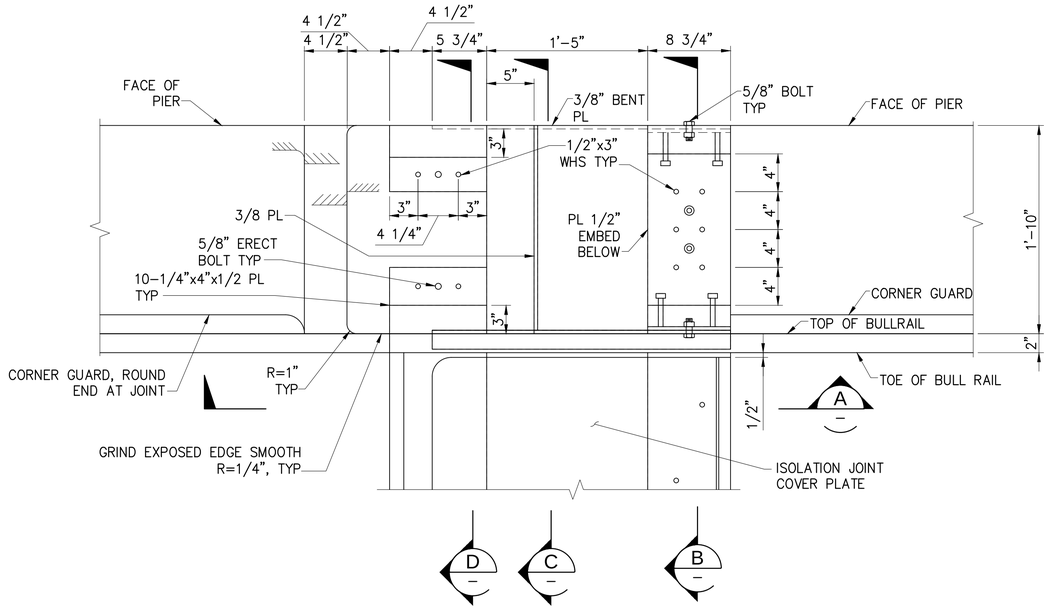
PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT DETAILS - SHEET 4

SEK			
CHECKED BY DATE			
TAH			
PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S21.4
SH 276 OF 499

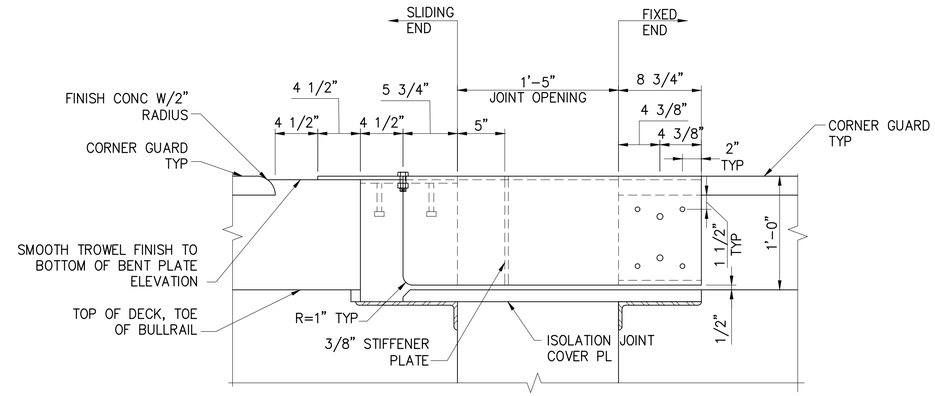
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



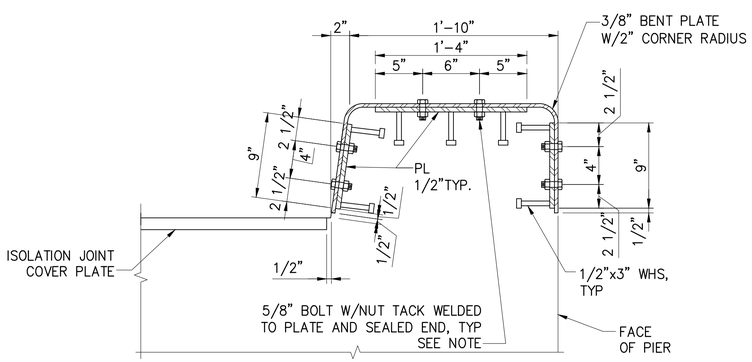
DETAIL - BULLRAIL COVER PLATE

1 / S20.1 — 1-1/2"=1'-0"



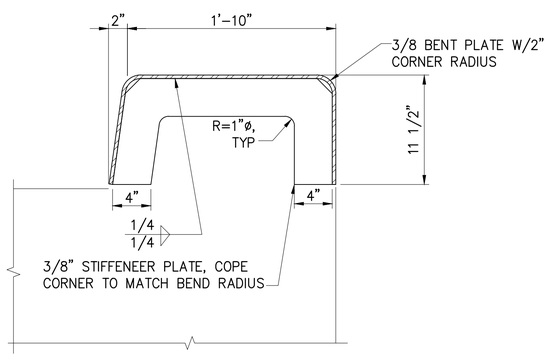
SECTION

A — 1-1/2"=1'-0"



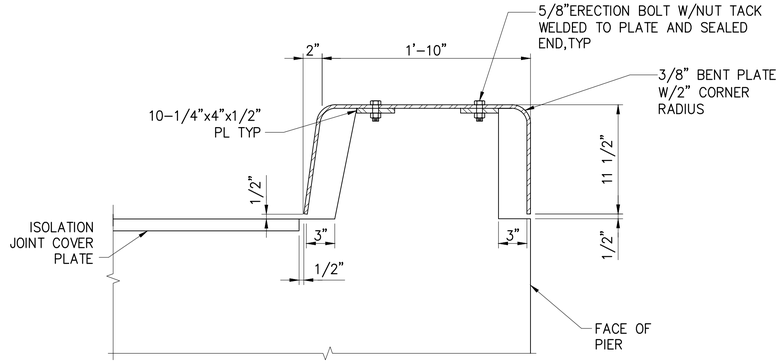
SECTION

B — 1-1/2"=1'-0"



SECTION

C — 1-1/2"=1'-0"



SECTION

D — 1-1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY: DATE

APPROVED:

DIRECTOR ENG. DATE

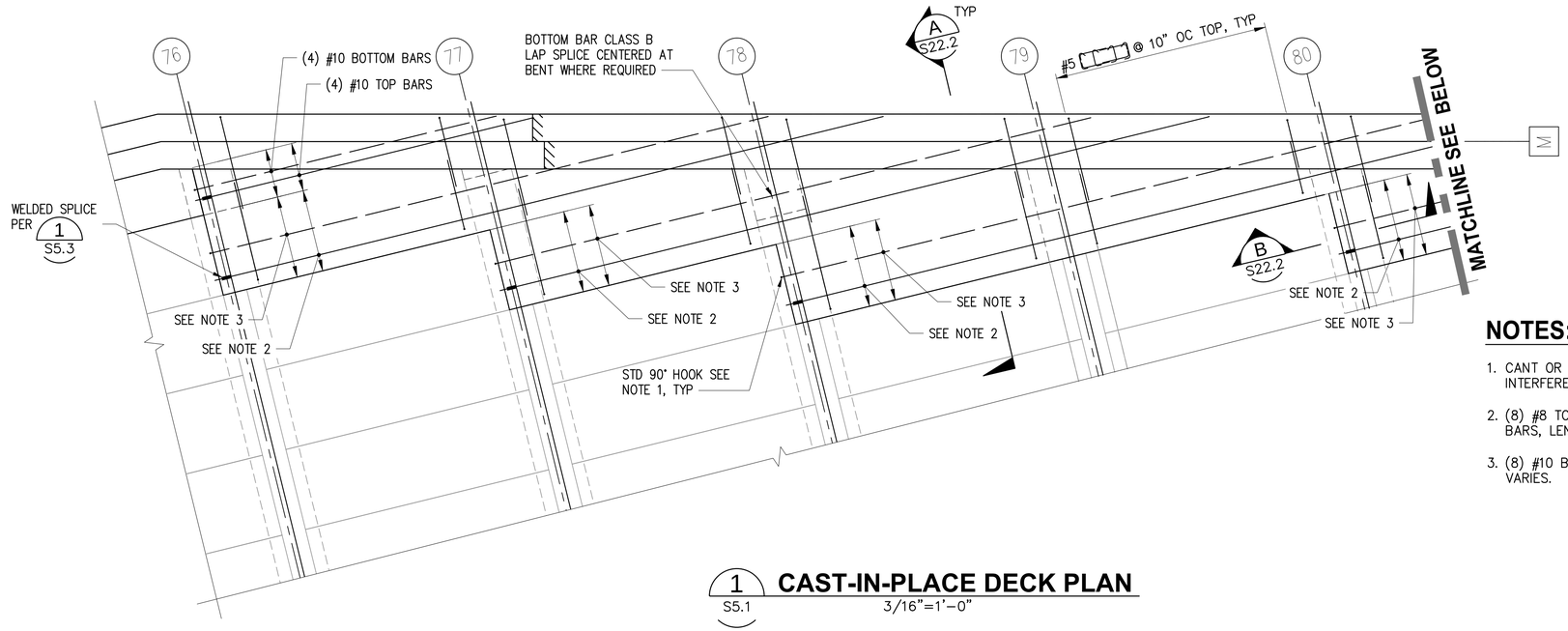
PIER 4 PHASE 2
RECONFIGURATION
PIER ISOLATION JOINT DETAILS - SHEET 5

6552
S21.5
SH 277 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

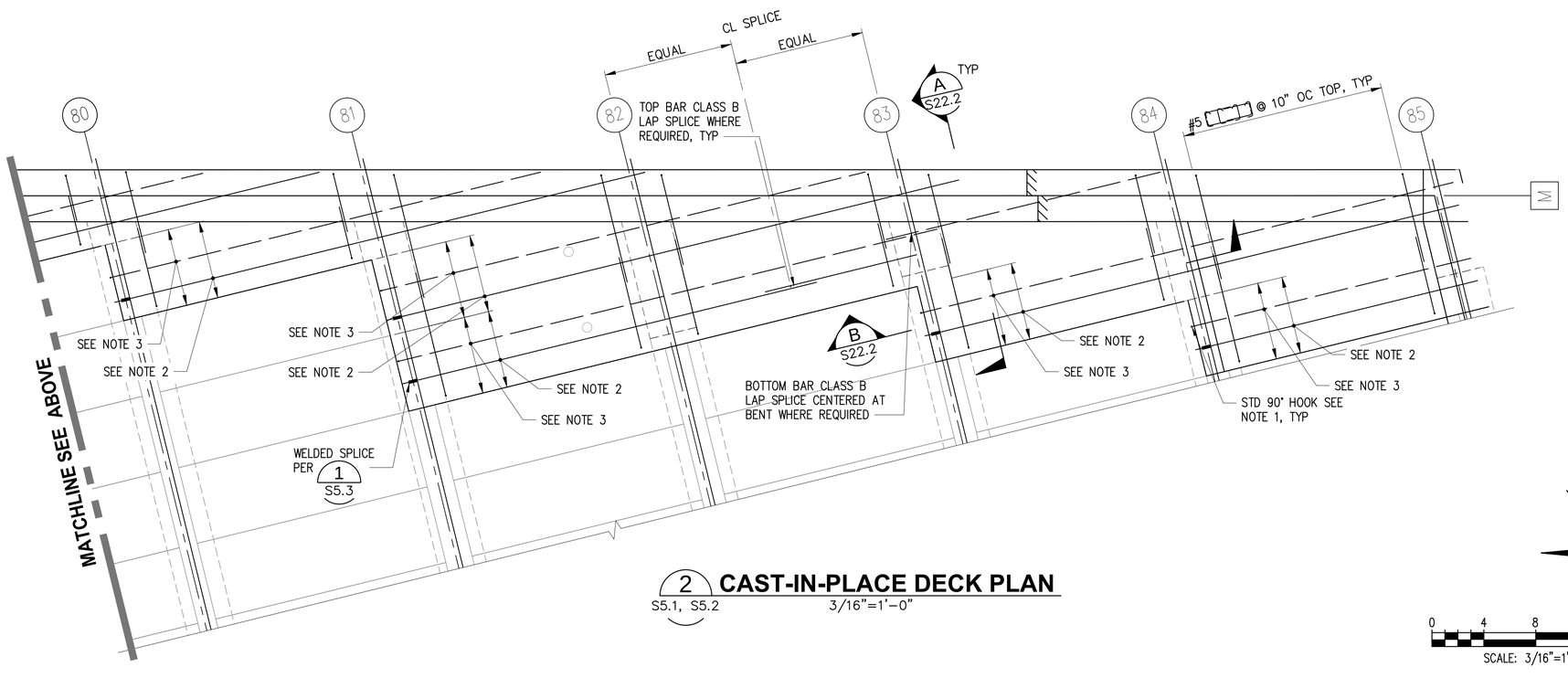
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S21.5



1 CAST-IN-PLACE DECK PLAN

S5.1 — 3/16"=1'-0"



2 CAST-IN-PLACE DECK PLAN

S5.1, S5.2 — 3/16"=1'-0"

PROJECT NORTH

0 4 8 12 16

SCALE: 3/16"=1'-0"

RECORD DRAWINGS

NOTES:

1. CANT OR ORIENT HOOKS AS REQUIRED TO ELIMINATE INTERFERENCES AND MAINTAIN MINIMUM CLEARANCE.
2. (8) #8 TOP BARS TO MATCH EXISTING P/C PANEL BARS, LENGTH VARIES.
3. (8) #10 BOTTOM BARS EQUALLY SPACED, LENGTH VARIES.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION

CAST-IN-PLACE DECK PLANS

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552

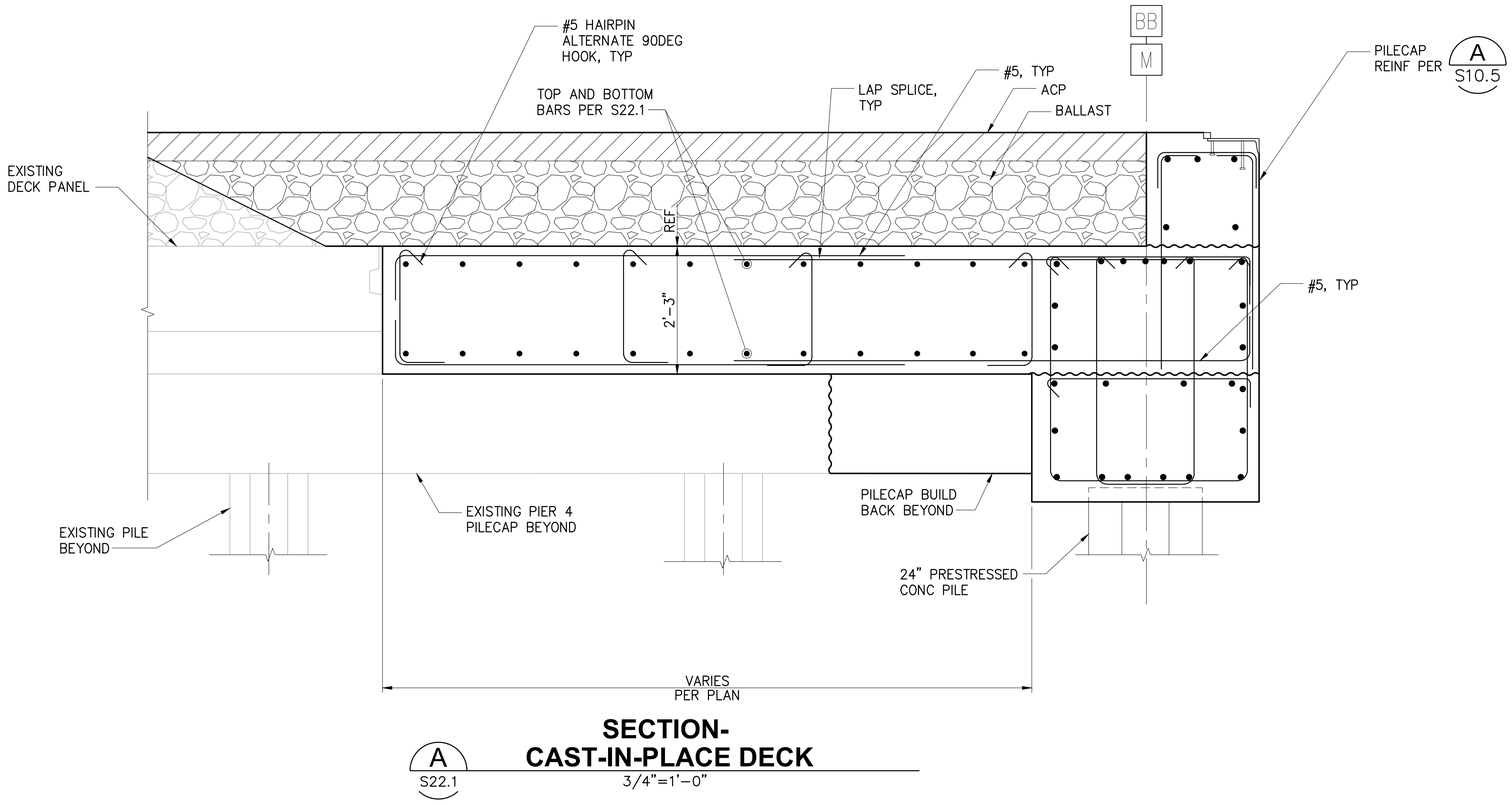
S22.1

SH 278 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

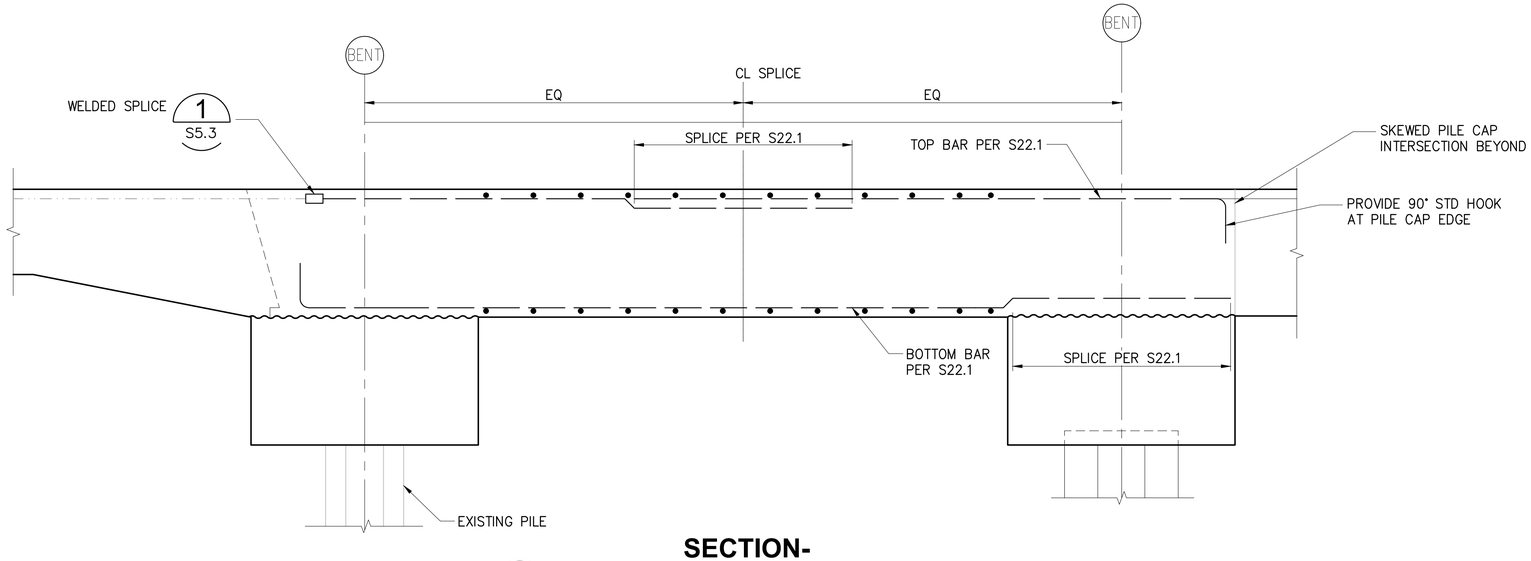
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S22.1



SECTION-
CAST-IN-PLACE DECK

A S22.1 — 3/4"=1'-0"



SECTION-
CAST-IN-PLACE DECK

B S22.1 — 3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S22.2

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
PRINTED BY: tiemons Jul 20, 2018			
PORT ADDRESS:ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
DRAWING SCALE: AS NOTED			

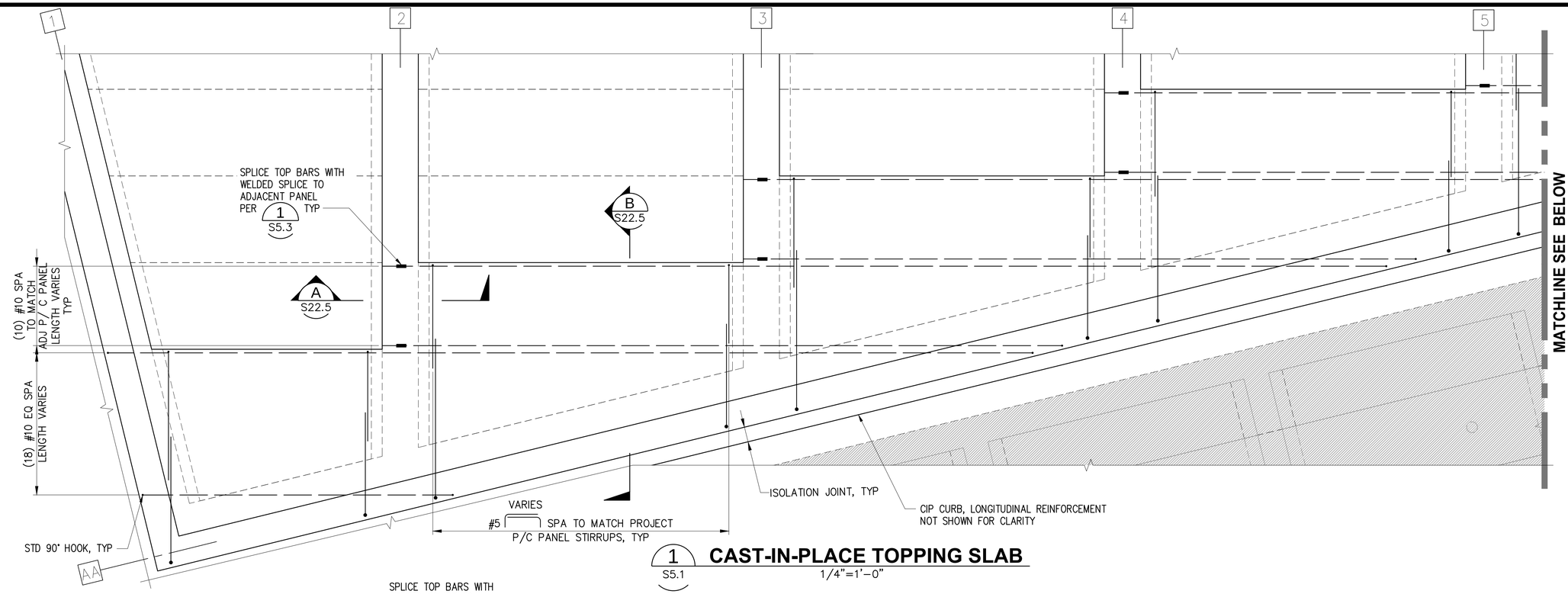
PIER 4 PHASE 2
RECONFIGURATION
CAST-IN-PLACE DECK SECTION EXISTING PIER 4

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

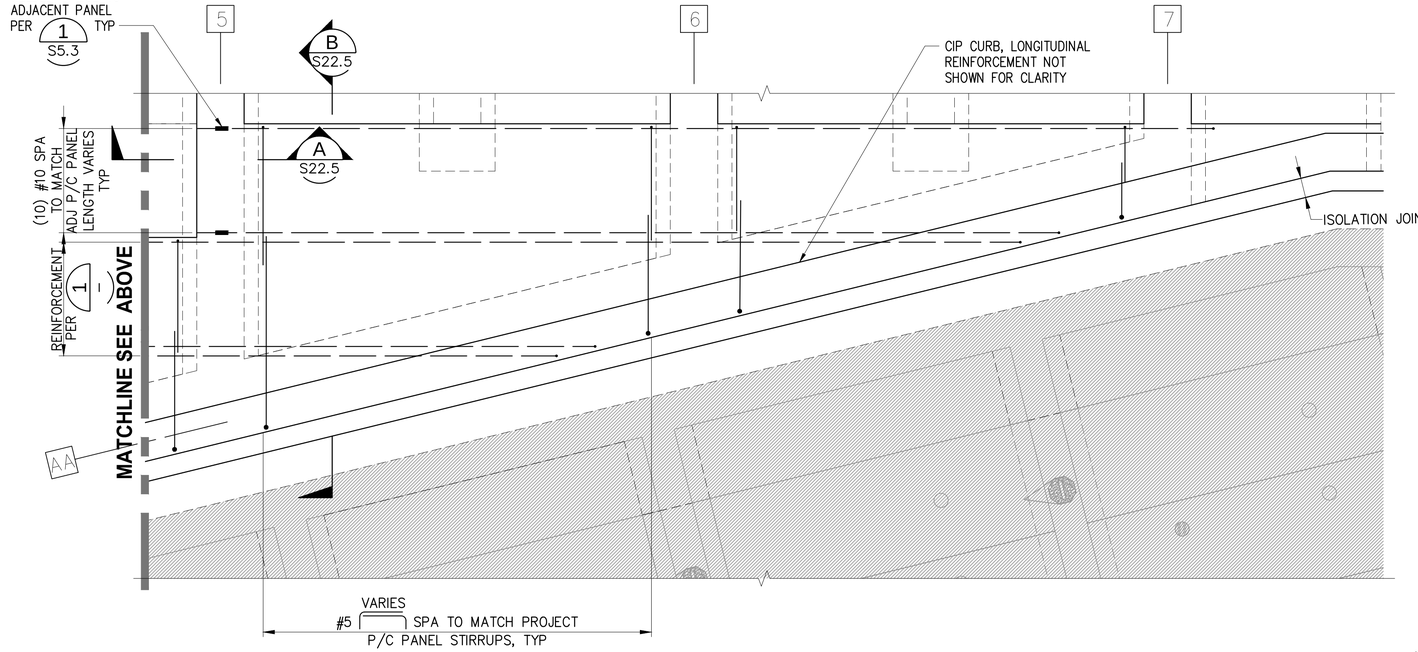
6552
S22.2
SH 279 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



1 S5.1 **CAST-IN-PLACE TOPPING SLAB**
1/4"=1'-0"



1 S5.1 **CAST-IN-PLACE TOPPING SLAB**
1/4"=1'-0"

PROJECT NORTH

0 4 8 12
SCALE: 1/4"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
CAST-IN-PLACE TOPPING SLAB - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

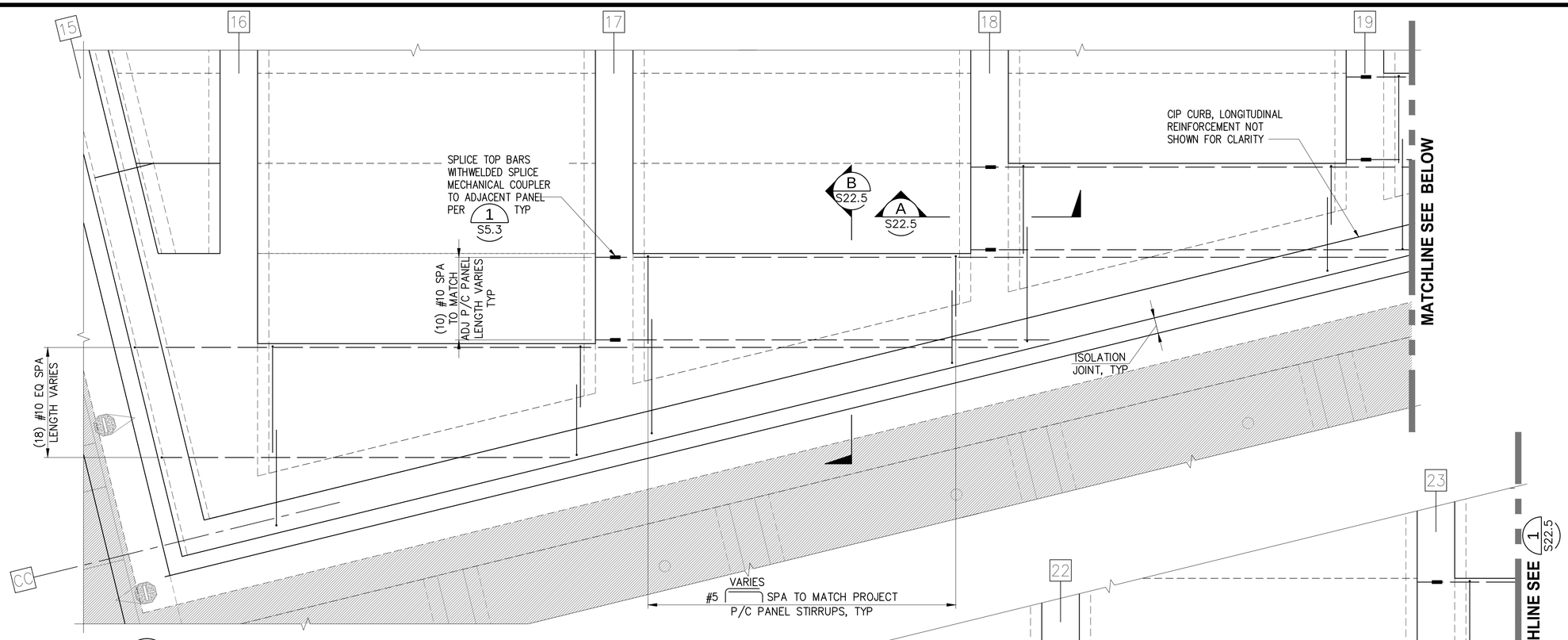
PRINTED BY: tiemons Jul 20, 2018 PROJ. ENGR DATE
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S22.3
SH 280 OF 499

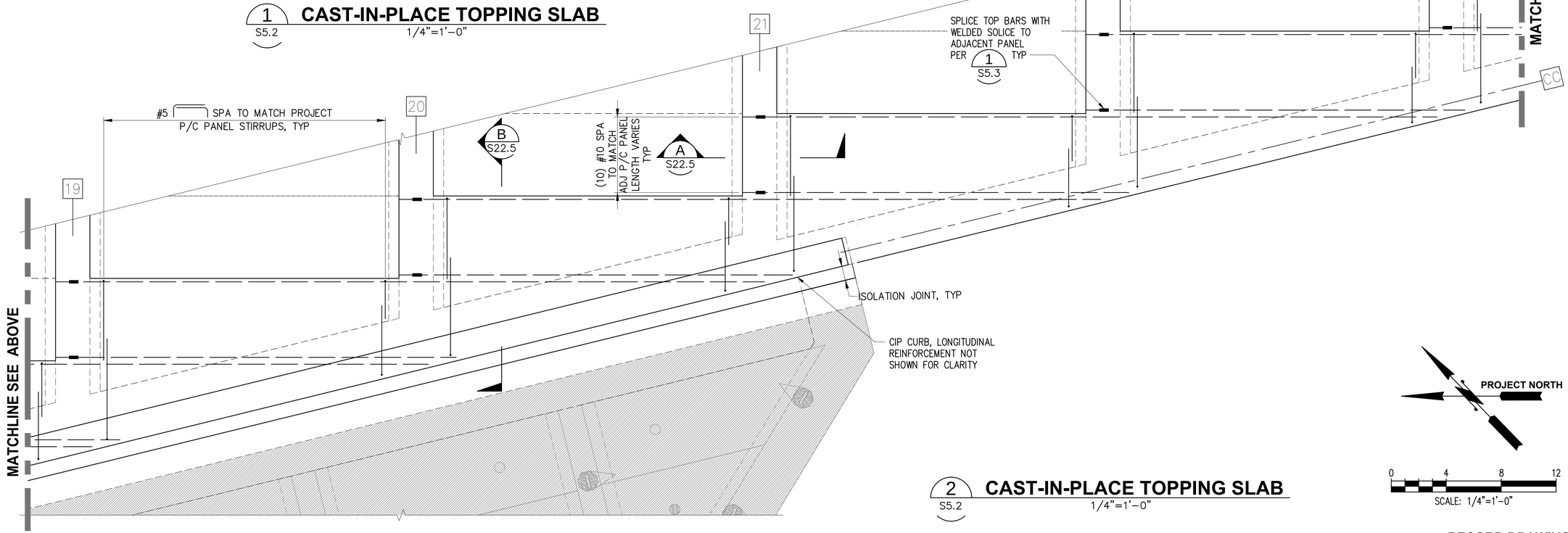
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S22.3

BINDING EDGE



1 S5.2 **CAST-IN-PLACE TOPPING SLAB**
1/4"=1'-0"



2 S5.2 **CAST-IN-PLACE TOPPING SLAB**
1/4"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
CAST-IN-PLACE TOPPING SLAB - SHEET 2

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

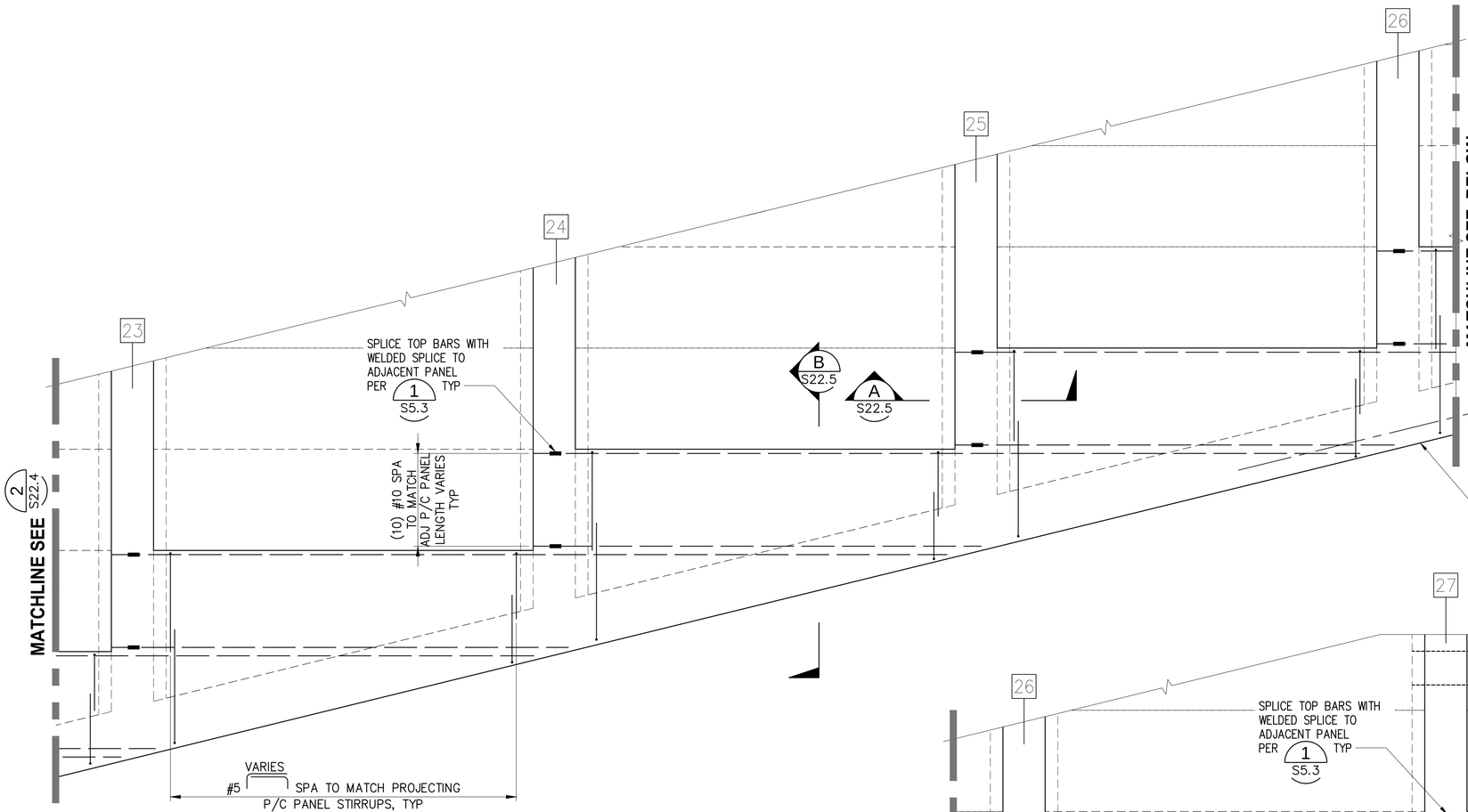
SECTION: 27

6552
S22.4
SH 281 OF 499

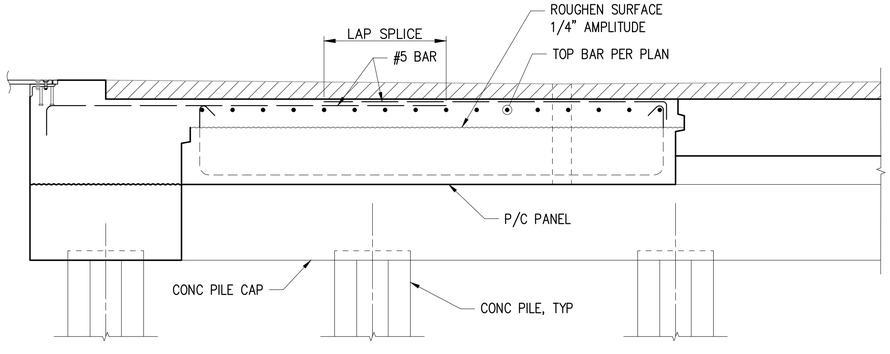
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S22.4

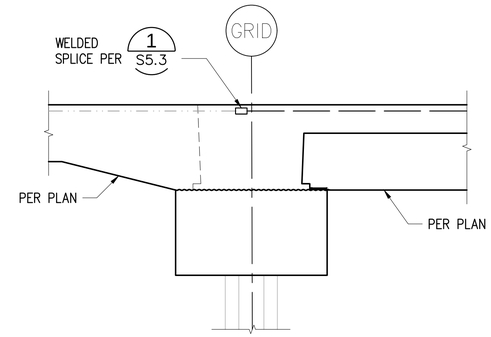
BINDING EDGE



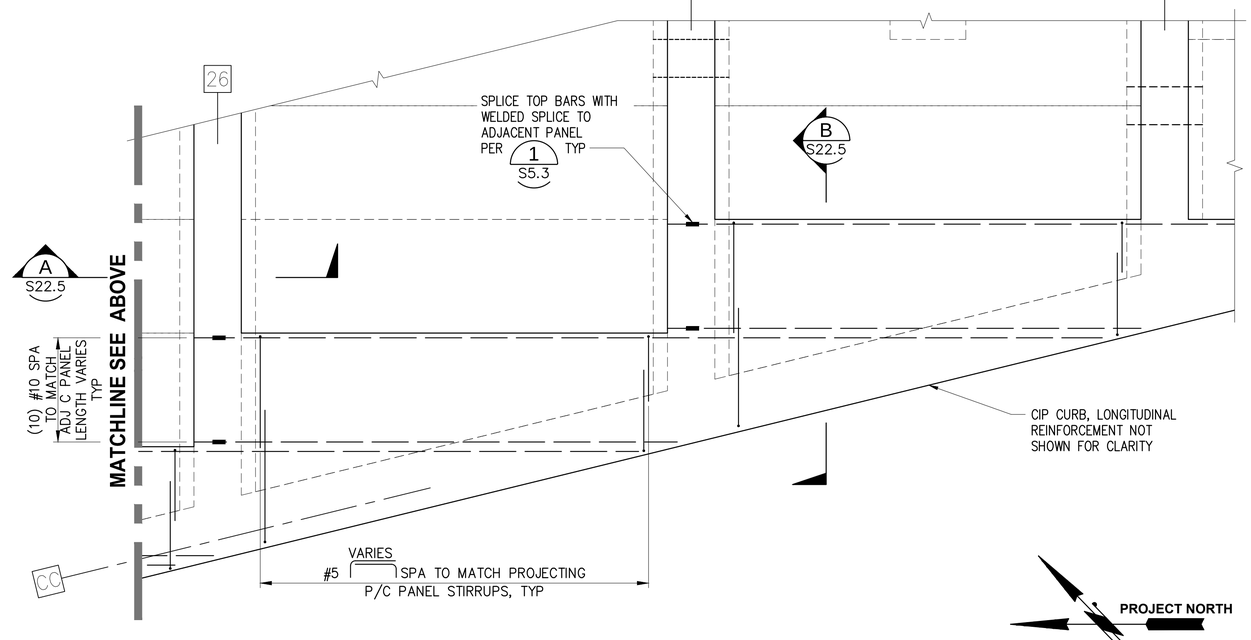
1 S5.2 **CAST-IN-PLACE TOPPING SLAB**
1/4"=1'-0"



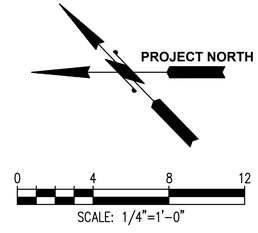
B S22.3, S22.4, S22.5 **SECTION CAST-IN-PLACE DECK**
1/2"=1'-0"



A S22.3, S22.4, S22.5 **SECTION CAST-IN-PLACE DECK**
1/2"=1'-0"



2 S5.2 **CAST-IN-PLACE TOPPING SLAB**
1/4"=1'-0"



RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

PIER 4 PHASE 2 RECONFIGURATION
CAST-IN-PLACE TOPPING SLAB - SHEET 3

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
		TAH	

CHECKED BY	DATE
SEK	

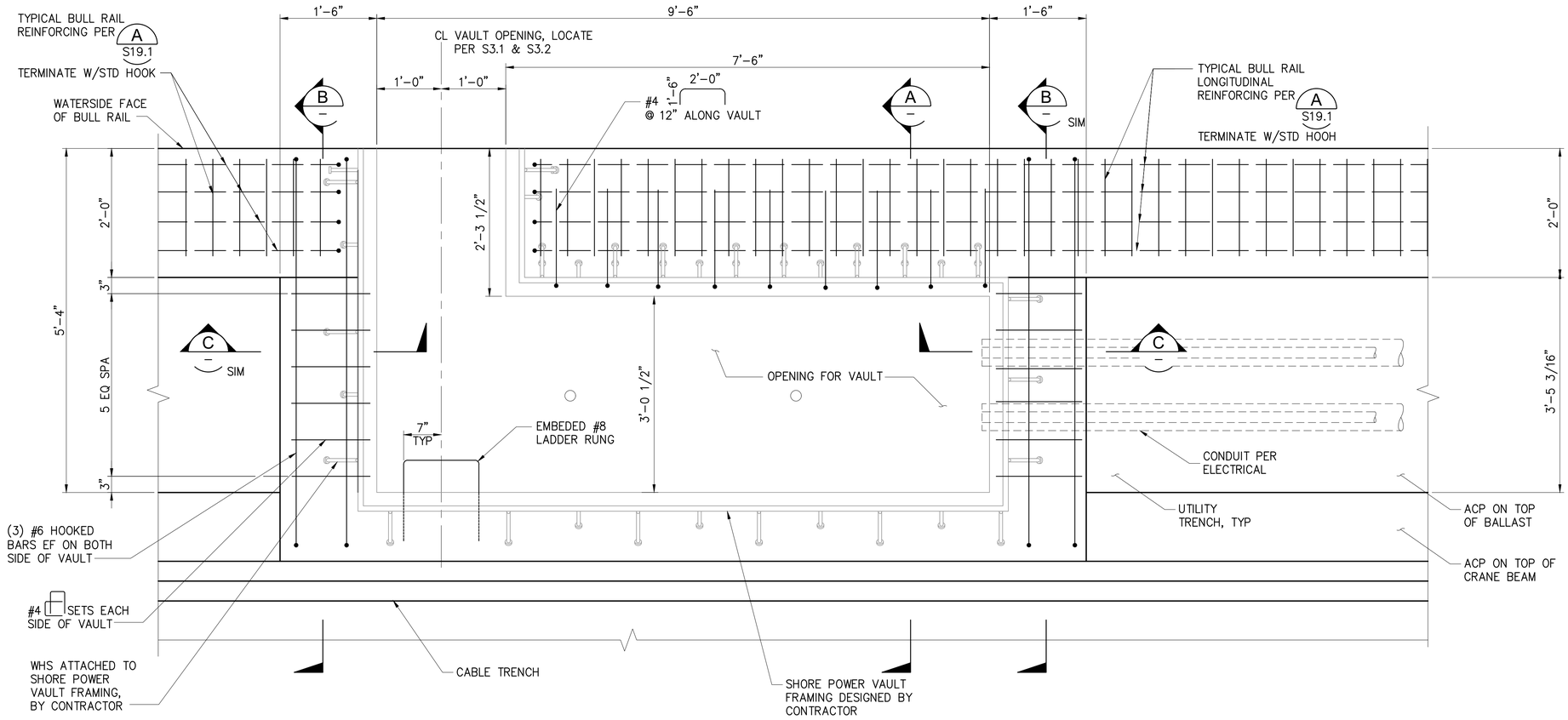
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S22.5
SH 282 OF 499

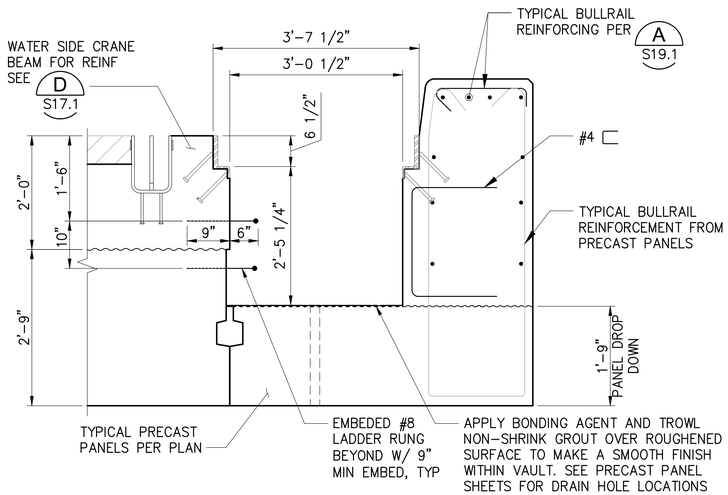
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S22.5



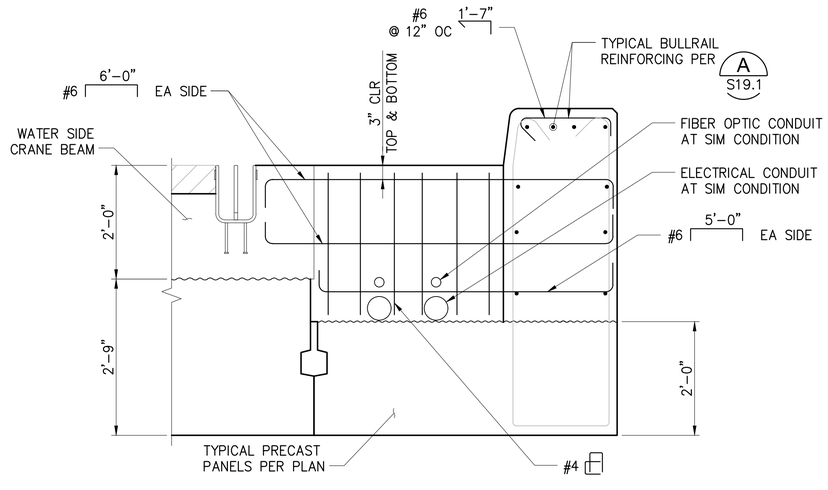
1 REINFORCING PLAN - SHORE POWER VAULT

1"=1'-0"



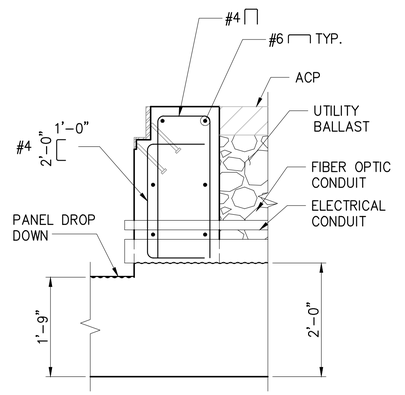
A SECTION

3/4"=1'-0"



B SECTION

3/4"=1'-0"



C SECTION

3/4"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S23.1

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
		SEK	
		TAH	
PROJ. ENGR	DATE		
tlemons	Jul 20, 2018		

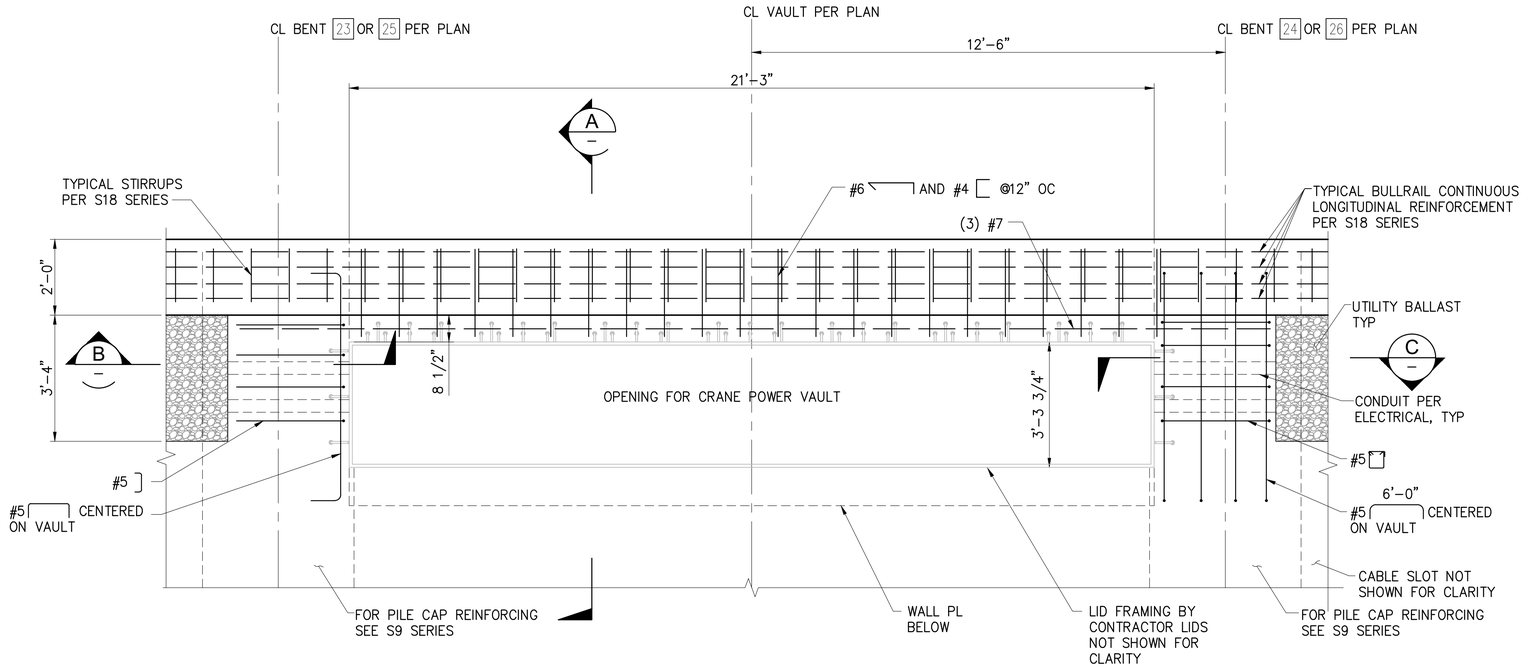
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
CAST-IN-PLACE CONCRETE DETAILS AT SHORE POWER VAULT

CONT/CONS:	0701136	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:		DRAWING SCALE:	AS NOTED		

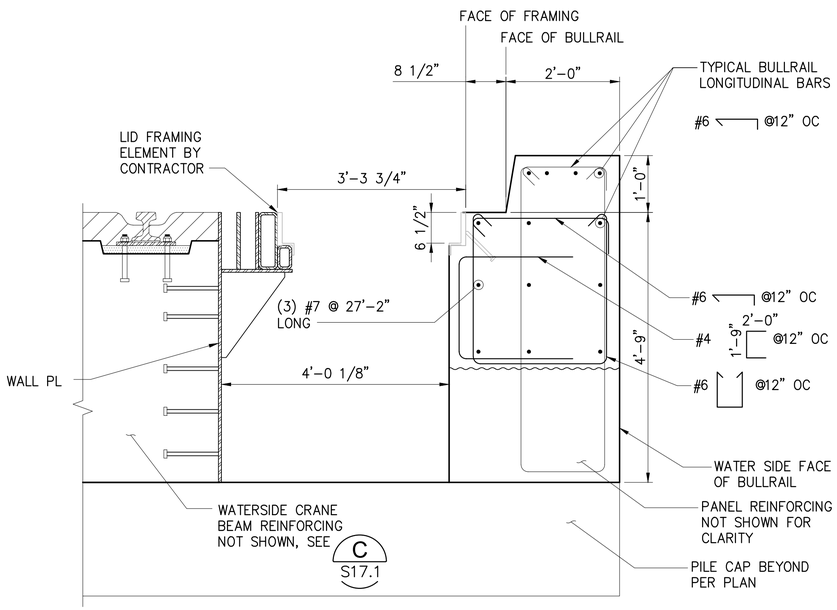
6552
S23.1
SH 283 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



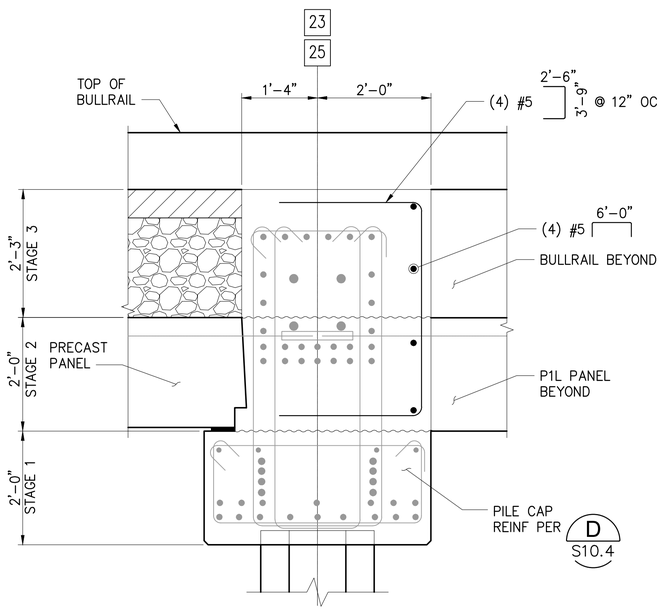
1 REINFORCING PLAN - CRANE POWER VAULT

SCALE: 1/2"=1'-0"



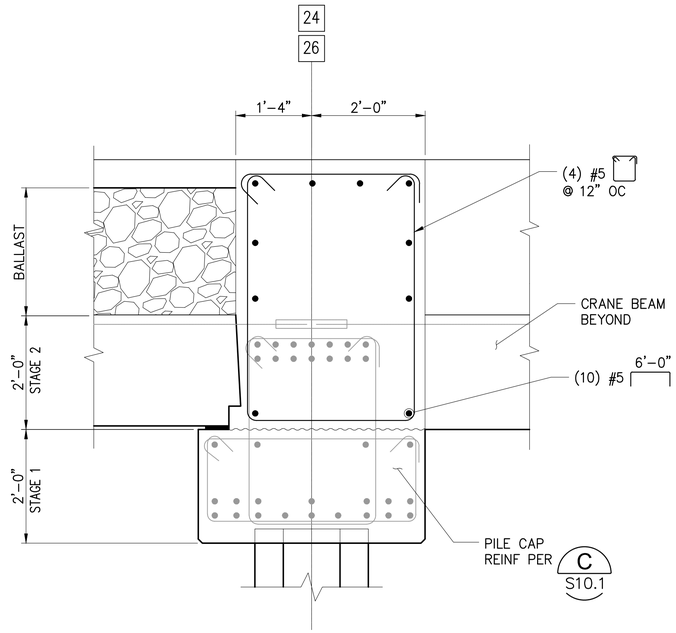
A SECTION

SCALE : 3/4""=1'-0"



B SECTION

SCALE : 3/4""=1'-0"



C SECTION

SCALE : 3/4""=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251109125 1-S24.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

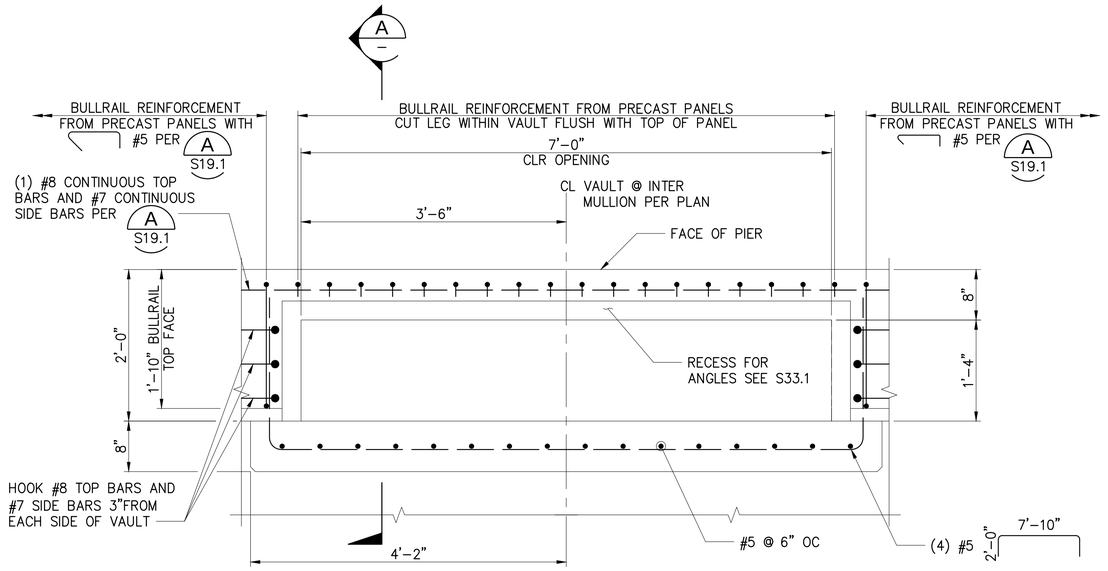
PIER 4 PHASE 2
RECONFIGURATION
CAST-IN-PLACE CONCRETE DETAILS AT CRANE POWER VAULT

6552
S24.1
SH 284 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

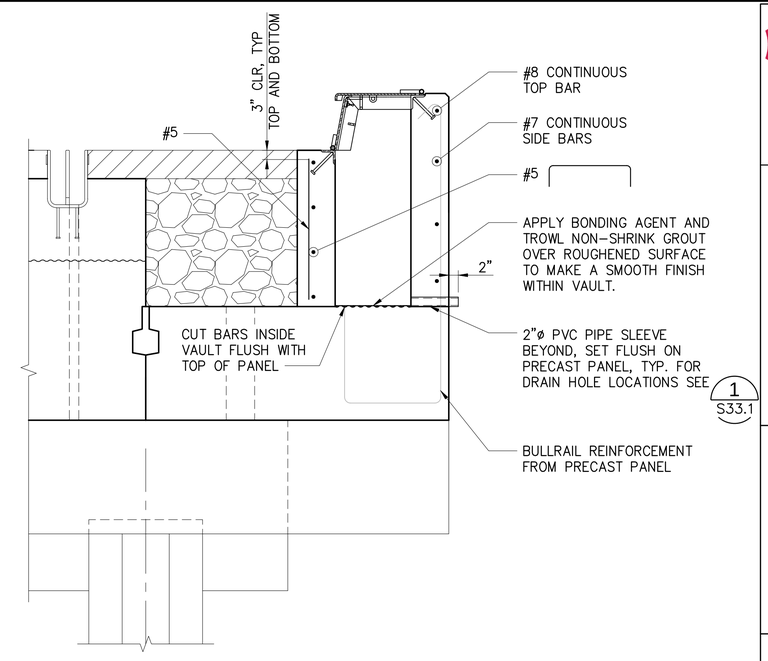
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



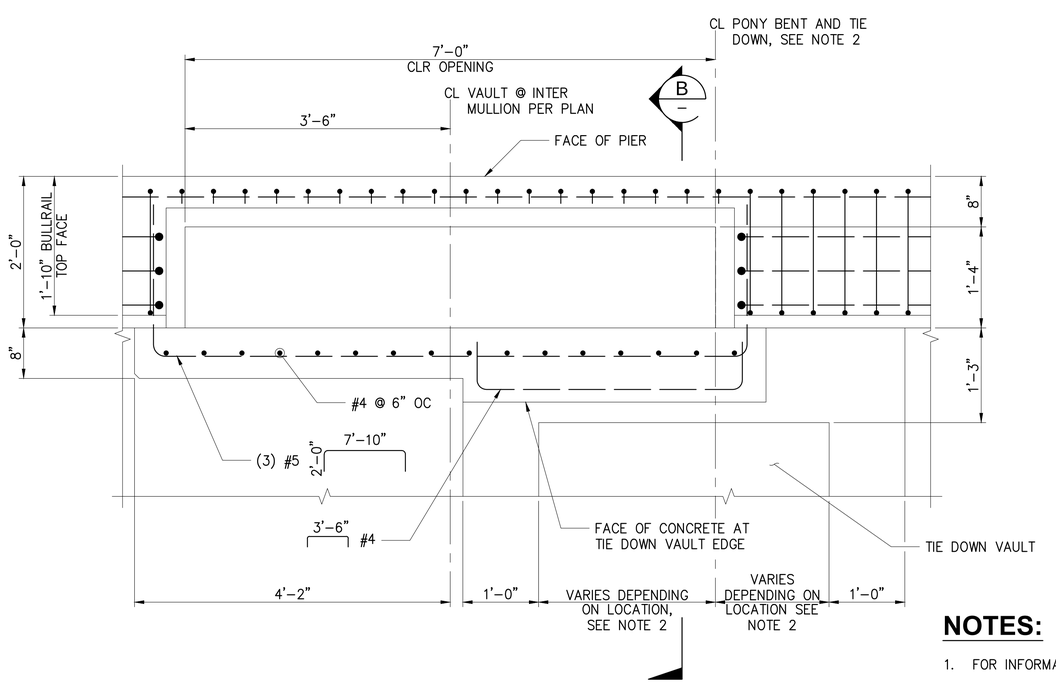
PLAN
UTILITY VAULT REINFORCING

1 — 1" = 1'-0



SECTION

A — 3/4" = 1'-0"

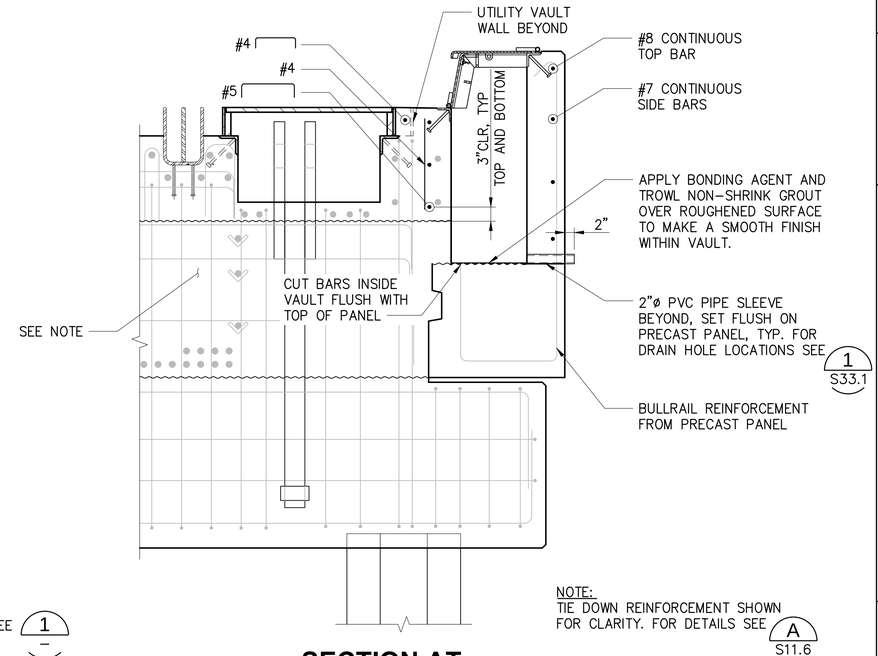


PLAN
UTILITY VAULT REINFORCING AT TIE DOWNS

2 — 1" = 1'-0

NOTES:

1. FOR INFORMATION NOT SHOWN SEE 1 —
2. TIE DOWN VAULTS ARE PRESENT ON BOTH THE NORTH AND SOUTH SIDES OF UTILITY VAULTS AND IN BOTH NORTH AND SOUTH ORIENTATIONS. SEE S5 SHEETS AND 1 S35.1 FOR TIE DOWN VAULT LOCATIONS & ORIENTATION AT EACH UTILITY VAULT



SECTION AT TIE DOWN VAULTS

B — 3/4" = 1'-0"

NOTE:
TIE DOWN REINFORCEMENT SHOWN FOR CLARITY. FOR DETAILS SEE A S11.6

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

APPROVED:

PRINTED BY: tiemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION

CAST-IN-PLACE CONCRETE DETAILS AT BULLRAIL UTILITY VAULT

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S25.1
SH 285 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S25.1

BINDING EDGE

PRECAST DECK PANEL SCHEDULE

PANEL TYPE	NOMINAL WIDTH X'–X" [X'–X"]*	NOMINAL LENGTH "L"	ACTUAL LENGTH "Ln"	NON–HAUNCH LENGTH "Lm"	REBAR LENGTH "Lb"	REBAR LENGTH "Lc"	ONE END HOOKED TOP BAR	DRAIN HOLES	REF. PLAN	CONCRETE STRENGTH	FINAL PRESTRESS (KIPS)	# PRESTRESS STRANDS	BOTTOM REINF.	TOP REINFORCEMENT			SHEAR REINFORCEMENT		
														BAR 'a'	BAR 'b'	BAR 'c'	ZONE 1	ZONE 2	END TO END
P1	5'–4"	25'–0"	22'–6"	---	6'–6"	---	---	YES	1 S27.7	f'c @ RELEASE = 4000 PSI MIN f'c @ 28 DAYS = 6000 PSI MIN f'c @ ERECTION = 6000 PSI MIN	382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@10"	---
P2	6'–0"	12'–6"	10'–0"	---	---	---	---	---	1 S27.2		---	---	(15)#11	(2)#10	---	(2)#10	---	---	#6@5"
P3	5'–0"	25'–0"	22'–6"	---	6'–6"	---	---	YES	1 S27.12		375	14	(4)#4	(10)#11	---	---	#5@12"	#5@10"	---
P4	6'–0"	25'–0"	22'–6"	---	6'–6"	---	---	---	1 S27.13		379	14	(6)#4	(10)#11	(5)#11	---	#5@12"	#5@8"	---
P5	6'–0"	25'–0"	22'–6"	13'–6"	---	---	---	---	1 S27.1		375	14	(4)#4	(10)#10	---	---	#5@12"	#5@8"	---
P6	6'–0"	25'–0"	22'–6"	13'–6"	---	---	---	YES	1 S27.1		375	14	(4)#4	(10)#10	---	---	#5@12"	#5@8"	---
P7	5'–0"	25'–0"	22'–6"	13'–6"	---	---	---	---	1 S27.15		321	12	(4)#4	(10)#10	---	---	#5@12"	#5@10"	---
P8	6'–0"	12'–6"	10'–0"	---	---	---	---	---	1 S27.3		---	---	(12)#11	(2)#10	---	(2)#10	---	---	#6@9"
P1A	5'–4"	25'–0"	22'–6"	---	6'–6"	---	YES	YES	1 S27.9		382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@8"	---
P2A	6'–0"	12'–6"	10'–0"	---	---	---	YES	---	1 S27.45		---	---	(17)#11	(2)#10	---	(2)#10	---	---	#6@6–1/2"
P3A	5'–0"	25'–0"	22'–6"	---	6'–6"	---	YES	YES	1 S27.12		428	16	(4)#4	(10)#11	---	---	#5@12"	#5@10"	---
P4A	6'–0"	25'–0"	22'–6"	---	6'–6"	---	YES	---	1 S27.13		379	14	(6)#4	(10)#11	(5)#11	---	#5@12"	#5@8"	---
P5A	6'–0"	25'–0"	22'–6"	13'–6"	---	---	YES	---	1 S27.1		473	18	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P6A	6'–0"	25'–0"	22'–6"	13'–6"	---	---	YES	YES	1 S27.1		473	18	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P7A	5'–0"	25'–0"	22'–6"	13'–6"	---	---	YES	---	1 S27.15		420	16	(4)#4	(10)#10	---	---	#5@12"	#5@10"	---
P8A	6'–0"	12'–6"	10'–0"	---	---	---	YES	---	1 S27.48		---	---	(12)#11	(2)#10	---	(2)#10	---	---	#6@6"
P1B	5'–4"	20'–0"	17'–6"	---	6'–6"	---	---	YES	1 S27.8		326	10	(5)#4	(10)#11	---	---	#5@12"	#5@6"	---
P2B	6'–0"	10'–0"	7'–6"	---	---	---	---	---	1 S27.2		---	---	(15)#11	(2)#10	---	(2)#10	---	---	#6@5"
P3B	5'–0"	20'–0"	17'–6"	---	6'–6"	---	---	YES	1 S27.12		322	12	(4)#4	(10)#11	---	---	#5@12"	#5@8"	---
P4B	6'–0"	20'–0"	17'–6"	---	6'–6"	---	---	---	1 S27.13		379	14	(6)#4	(10)#11	(3)#11	---	#5@12"	#5@8"	---
P5B	6'–0"	20'–0"	17'–6"	8'–6"	---	---	---	---	1 S27.1		523	20	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P6B	6'–0"	20'–0"	17'–6"	8'–6"	---	---	---	YES	1 S27.1		523	20	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P7B	5'–0"	20'–0"	17'–6"	8'–6"	---	---	---	---	1 S27.15		470	14	(4)#4	(10)#10	---	---	#5@12"	#5@10"	---
P8B	6'–0"	10'–0"	7'–6"	---	---	---	---	---	1 S27.3		---	---	(12)#11	(2)#10	---	(2)#10	---	---	#6@9"

NOTES:

1. FOR PRECAST DECK PANEL LOCATIONS, SEE S5.1 – S5.5.
2. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL TYPE 'a' TOP BARS.
3. TYPE 'b' TOP BARS ARE HOOKED OUTSIDE PANEL AT BOTH ENDS.
4. [X–X"] INDICATES PANEL NOMINAL WIDTH AT NARROW END OF PANEL SHEETS S27.XX

NOTES FOR PRECAST DECK PANEL STRAND QUANTITIES:

4. SCHEDULE SHOWS THE NUMBER OF STRANDS REQUIRED TO ACHIEVE THE FINAL PRESTRESS FORCE AFTER ALL LOSSES. PRESTRESS LOSSES HAVE BEEN DETERMINED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 318–11 AND THE PCI DESIGN HANDBOOK. IF THE CONTRACTORS MEANS AND METHODS OF PRESTRESSING RESULT IN LOSSES THAT ARE NOT ACCURATELY PREDICTED BY THESE RECOMMENDATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND SHALL NOT PROCEED WITH WORK UNTIL APPROPRIATE ADJUSTMENTS CAN BE MADE.
5. THE NUMBER OF STRANDS SHOWN TO BE REQUIRED IS BASED ON THE ASSUMPTION THAT THE 1/2"ø STRANDS WILL BE JACKED TO A MAXIMUM JACKING STRESS OF 0.75FPU AND A MINIMUM JACKING STRESS OF 0.70FPU. IF THE CONTRACTOR DESIRES TO JACK THE STRANDS TO A STRESS OUTSIDE OF THIS RANGE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND SHALL NOT PROCEED WITH WORK UNTIL APPROPRIATE ADJUSTMENTS CAN BE MADE.
6. THE PRESTRESS STRANDS SHOULD BE PLACED IN THE BOTTOM LAYER UNTIL NO MORE STRANDS CAN BE PLACED WHILE MAINTAINING THE TYPICAL CLEARANCE SHOWN ON THE PLANS. CLEARANCES BETWEEN PRESTRESS STRANDS MAY EXCEED THE TYPICAL CLEARANCE SHOWN ON THE PLANS.
7. IN ALL CASES PLACE STRANDS SO THAT THE PRESTRESS FORCE IS BALANCED ABOUT THE CENTERLINE OF THE PANELS.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
tlemons Jul 20, 2018 PROJ. ENGR DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL SCHEDULE - SHEET 1

6552
S26.1
SH 286 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S26.1

BINDING EDGE

PRECAST DECK PANEL SCHEDULE

PANEL TYPE	NOMINAL WIDTH X'–X" [X'–X"]*	NOMINAL LENGTH "L"	ACTUAL LENGTH "Ln"	NON–HAUNCH LENGTH "Lm"	REBAR LENGTH "Lb"	REBAR LENGTH "Lc"	ONE END HOOKED TOP BAR	DRAIN HOLES	REF. PLAN	CONCRETE STRENGTH	FINAL PRESTRESS (KIPS)	# PRESTRESS STRANDS	BOTTOM REINF.	TOP REINFORCEMENT			SHEAR REINFORCEMENT		
														BAR 'a'	BAR 'b'	BAR 'c'	ZONE 1	ZONE 2	END TO END
P1C	5'–4"	25'–0"	21'–6"	---	6'–6"	---	---	YES	1 S27.7	f'c @ RELEASE = 4000 PSI MIN f'c @ 28 DAYS = 6000 PSI MIN f'c @ ERECTION = 6000 PSI MIN	382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@10"	---
P2C	6'–0"	12'–6"	9'–0"	---	---	---	---	---	1 S27.28		---	---	(15)#11	(2)#10	---	(2)#10	---	---	#6@5"
P3C	5'–0"	25'–0"	21'–6"	---	6'–6"	---	---	YES	1 S27.12		375	14	(4)#4	(10)#11	---	---	#5@12"	#5@10"	---
P8C	8'–6"	12'–6"	10'–0"	---	---	---	---	---	1 S27.6		---	---	(18)#11	(2)#10	---	(3)#10	---	---	#6@4–3/4"
P1D	5'–4"	25'–0"	21'–6"	---	---	---	---	YES	1 S27.23		431	16	(4)#4	(10)#11	---	---	#5@12"	#5@6"	---
P2D	11'–6"	12'–6"	9'–0"	---	---	---	---	---	1 S27.4		---	---	(15)#11	(2)#10	(2)#10	(14)#10	---	---	#6@6"
P8D	11'–0"	12'–6"	6'–6"	---	---	---	---	---	1 S27.37		---	---	(22#11	(2)#10	(3)#10	---	---	---	#6@6"
P1E	5'–4"	24'–1"	21'–7"	---	6'–6"	---	YES	YES	1 S27.7		382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@8"	---
P2E	6'–0"	11'–7"	9'–1"	--	---	---	--	--	1 S27.29		---	---	(15)#11	(2)#10	---	(2)#10	---	---	#6@5"
P3E	5'–0"	24'–1"	21'–7"	--	6'–6"	---	YES	YES	1 S27.12		428	16	(4)#4	(10)#11	---	---	#5@12"	#5@10"	---
P4E	6'–0"	24'–1"	21'–7"	--	6'–6"	---	YES	--	1 S27.13		379	14	(6)#4	(10)#11	(5)#11	---	#5@12"	#5@10"	---
P5E	6'–0"	24'–1"	21'–7"	12'–7"	---	---	YES	--	1 S27.1		473	18	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P6E	6'–0"	24'–1"	21'–7"	12'–7"	---	---	YES	YES	1 S27.1		473	18	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P7E	5'–0"	24'–1"	21'–7"	12'–7"	---	---	YES	--	1 S27.15		420	16	(4)#4	(10)#10	---	---	#5@12"	#5@10"	---
P8E	6'–0"	11'–7"	9'–1"	--	---	---	--	--	1 S27.14		---	---	(12)#11	(2)#10	---	(2)#10	---	---	#6@7"
P1F	2'–4"	25'–0"	22'–6"	--	---	---	--	--	1 S27.16		111	4	(4)#4	(4)#11	---	---	#5@12"	#5@12"	---
P2F	11'–6"	12'–6"	10'–0"	--	---	---	--	--	1 S27.5		---	---	(15)#11	(2)#10	(2)#10	(14)#10	---	---	#6@6"
P3F	2'–6"	25'–0"	21'–6"	--	---	---	--	--	1 S27.11		166	6	(4)#4	(5)#11	---	---	#5@12"	#5@12"	---
P8F	11'–0"	12'–6"	10'–0"	--	---	---	--	--	1 S27.10		---	---	(12)#11	(2)#10	(2)#10	(8)#10	---	---	#6@6"
P1G	2'–4"	25'–0"	21'–6"	--	---	---	--	--	1 S27.16		111	4	(4)#4	(4)#11	---	---	#5@12"	#5@12"	---
P2G	11'–6"	12'–6"	10'–0"	--	---	---	--	--	1 S27.4		---	---	(15)#11	(2)#10	(2)#10	(14)#10	---	---	#6@6"
P1H	5'–4"	25'–0"	22'–6"	--	---	---	--	YES	1 S27.23		431	16	(4)#4	(10)#11	---	---	#5@12"	#5@6"	---
P2H	11'–6"	12'–6"	9'–0"	--	---	---	--	--	1 S27.5		---	---	(20)#11	(2)#10	(2)#10	(14)#10	---	---	#6@5–1/2"
P3H	5'–0"	25'–0"	21'–6"	---	6'–6"	---	---	YES	1 S27.12		375	14	(4)#4	(10)#11	---	---	#5@12"	#5@10"	---

NOTES:

1. SEE S26.1 FOR NOTES.

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S26.2

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE

DRAWN:	SEK
CHECKED BY	DATE
	TAH
PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837
DRAWING SCALE:	AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL SCHEDULE - SHEET 2

6552
S26.2
SH 287 OF 499

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION: 27

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PRECAST DECK PANEL SCHEDULE

PANEL TYPE	NOMINAL WIDTH X'–X" [X'–X"]*	NOMINAL LENGTH "L"	ACTUAL LENGTH "Ln"	NON–HAUNCH LENGTH "Lm"	REBAR LENGTH "Lb"	REBAR LENGTH "Lc"	ONE END HOOKED TOP BAR	DRAIN HOLES	REF. PLAN	CONCRETE STRENGTH	FINAL PRESTRESS (KIPS)	# PRESTRESS STRANDS	BOTTOM REINF.	TOP REINFORCEMENT			SHEAR REINFORCEMENT		
														BAR 'a'	BAR 'b'	BAR 'c'	ZONE 1	ZONE 2	END TO END
P2K	13'–10"	12'–6"	10'–0"	--	---	---	--	--	1 S27.43	f'c @ RELEASE = 4000 PSI MIN f'c @ 28 DAYS = 6000 PSI MIN f'c @ ERECTION = 6000 PSI MIN	---	---	(15)#11	(2)#10	(2)#10	(7)#10	---	---	#6@6"
P2M	13'–10"	12'–6"	10'–0"	--	---	---	--	--	1 S27.43		---	---	(15)#11	(2)#10	(2)#10	(7)#10	---	---	#6@6"
P1L	3'–0"	25'–0"	22'–6"	--	---	---	--	--	1 S27.39		166	6	(6)#4	(6)#11	---	---	#5@12"	#5@12"	---
P1R	5'–4"	25'–0"	21'–6"	---	6'–6"	---	---	YES	1 S27.7		382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@10"	---
P3R	2'–6"	25'–0"	21'–6"	--	---	---	--	--	1 S27.11		166	6	(4)#4	(5)#11	---	---	#5@12"	#5@12"	---
P1S	2'–4"	25'–0"	21'–6"	--	---	---	--	--	1 S27.16		111	4	(4)#4	(4)#11	---	---	#5@12"	#5@12"	---
P3S	2'–6"	25'–0"	22'–6"	--	---	---	--	--	1 S27.11		166	6	(4)#4	(5)#11	---	---	#5@12"	#5@12"	---
P14	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.17		---	---	(10)#9	(10)#10	---	---	---	---	#5@8"
P15	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.17		---	---	(10)#9	(10)#10	---	---	---	---	#5@8"
P16	6'–0"	VARIES	VARIES	--	---	---	YES	YES	1 S27.17		---	---	(10)#8	(10)#10	---	---	---	---	#5@8"
P17	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.17		---	---	(10)#8	(10)#10	---	---	---	---	#5@8"
P19	6'–0"	15'–8"	13'–2"	4'–2"	---	---	YES	YES	1 S27.25		272	10	(6)#4	(8)#10	---	---	#5@12"	#5@8"	---
P20	6'–0"	15'–8"	13'–2"	4'–2"	---	---	YES	YES	1 S27.46		272	10	(6)#4	(8)#10	---	---	#5@12	#5@8	---
P21	6'–0"	15'–8"	13'–2"	4'–2"	---	---	YES	YES	1 S27.18		272	10	(6)#4	(8)#10	---	---	#5@12	#5@8	---
P22	4'–0"	15'–8"	13'–2"	4'–2"	---	---	YES	YES	1 S27.26		216	8	(4)#4	(8)#8	---	---	#5@12	#5@12	---
P23	6'–0"	15'–8"	13'–2"	4'–2"	---	---	YES	YES	1 S27.20		272	10	(6)#4	(8)#10	---	---	#5@12"	#5@8"	---
P19A	6'–0"	15'–8"	13'–6 1/2"	4'–6 1/2"	---	---	--	YES	1 S27.27		272	10	(4)#4	(8)#10	---	---	#5@12"	#5@8"	---
P20A	6'–0"	15'–8"	13'–6 1/2"	4'–6 1/2"	---	---	--	YES	1 S27.47		272	10	(4)#4	(8)#10	---	---	#5@12"	#5@8"	---
P21A	6'–0"	15'–8"	13'–6 1/2"	4'–6 1/2"	---	---	--	YES	1 S27.19		272	10	(4)#4	(8)#10	---	---	#5@12"	#5@8"	---
P22A	4'–0"	15'–8"	13'–6 1/2"	4'–6 1/2"	---	---	---	YES	1 S27.30		216	8	(4)#4	(8)#8	---	---	#5@12	#5@12	---
P23A	6'–0"	15'–8"	13'–6 1/2"	4'–6 1/2"	---	---	--	YES	1 S27.21		272	10	(4)#4	(8)#10	---	---	#5@12"	#5@8"	---
P24	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#10	(10)#10	---	---	---	---	#5@8"
P25	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#10	(10)#10	---	---	---	---	#5@8"

NOTES:

1. SEE S26.1 FOR NOTES.

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S26.3

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	
	CHECKED BY	DATE
	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE
PRINTED BY: tlemons Jul 20, 2018		
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA, WA 98401-1837		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL SCHEDULE - SHEET 3

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S26.3
SH 288 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PRECAST DECK PANEL SCHEDULE

PANEL TYPE	NOMINAL WIDTH X'–X" [X'–X"]*	NOMINAL LENGTH "L"	ACTUAL LENGTH "Ln"	NON–HAUNCH LENGTH "Lm"	REBAR LENGTH "Lb"	REBAR LENGTH "Lc"	ONE END HOOKED TOP BAR	DRAIN HOLES	REF. PLAN	CONCRETE STRENGTH	FINAL PRESTRESS (KIPS)	# PRESTRESS STRANDS	BOTTOM REINF.	TOP REINFORCEMENT			SHEAR REINFORCEMENT		
														BAR 'a'	BAR 'b'	BAR 'c'	ZONE 1	ZONE 2	END TO END
P26	6'–0"	VARIES	VARIES	--	---	---	YES	YES	1 S27.22	f'c @ RELEASE = 4000 PSI MIN f'c @ 28 DAYS = 6000 PSI MIN f'c @ ERECTION = 6000 PSI MIN	---	---	(10)#10	(10)#10	---	---	---	---	#5@8"
P27	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#10	(10)#10	---	---	---	---	#5@8"
P28	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#10	(10)#10	---	---	---	---	#5@8"
P29	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#10	(10)#10	---	---	---	---	#5@8"
P30	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#9	(10)#9	---	---	---	---	#5@8"
P31	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#9	(10)#9	---	---	---	---	#5@8"
P32	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#8	(10)#8	---	---	---	---	#5@8"
P33	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#8	(10)#8	---	---	---	---	#5@8"
P34	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#8	(10)#8	---	---	---	---	#5@8"
P34A	6'–0"	VARIES	VARIES	--	---	---	YES	--	1 S27.22		---	---	(10)#8	(10)#8	---	---	---	---	#5@8"
P35	6'–0"	25'–0"	22'–6"	13'–6"	---	---	--	--	1 S27.1		375	14	(4)#4	(10)#10	---	---	#5@12"	#5@8"	---
P35A	6'–0"	25'–0"	22'–6"	13'–6"	---	---	YES	--	1 S27.1		473	18	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P35B	6'–0"	20'–0"	17'–6"	8'–6"	---	---	--	--	1 S27.1		523	20	(4)#4	(12)#10	---	---	#5@12"	#5@8"	---
P37*	3'–11"	20'–0"	17'–6"	8'–6"	---	---	---	---	1 S27.42		273	8	(4)#4	(8)#9	---	---	#5@12"	#5@10"	---
P37A*	3'–11"	20'–0"	17'–6"	8'–6"	---	---	---	---	1 S27.42		273	8	(4)#4	(8)#9	---	---	#5@12"	#5@10"	---
P37B*	3'–11"	20'–0"	17'–6"	8'–6"	---	---	---	---	1 S27.24		273	8	(4)#4	(8)#9	---	---	#5@12"	#5@10"	---
P38	8'–6"	25'–0"	22'–6"	13'–6"	---	---	--	--	1 S27.31		535	20	(8)#4	(18)#10	---	---	#5@12"	#5@6"	---
P40	9'–6"	25'–0"	22'–6"	13'–6"	---	---	--	--	1 S27.32		592	22	(8)#4	(20)#10	---	---	#5@12"	#5@5"	---
P41	3'–0"	15'–8"	13'–2"	4'–2"	---	---	YES	---	1 S27.33		162	6	(4)#4	(6)#8	---	---	#5@12"	#5@12"	---
P41A	3'–0"	15'–8"	13'–6 1/2"	4'–6 1/2"	---	---	---	---	1 S27.34		162	6	(4)#4	(6)#8	---	---	#5@12"	#5@12"	---
P50*	12'–6" [7'–0"]	25'–0"	22'–6"	---	---	---	--	--	1 S27.35		---	---	(16)#10	---	---	---	---	---	#5@10"
P50A	12'–6" [7'–0"]	25'–0"	22'–6"	---	---	---	--	YES	1 S27.35		---	---	(16)#10	---	---	---	---	---	#5@10"
P51*	10'–7 3/16" [7'–5"]	VAR	VAR	---	---	---	YES	--	1 S27.41		---	---	(14)#10	---	---	---	---	---	#5@10"
P52*	10'–7" [7'–5"]	25'–0"	22'–6"	---	---	---	--	--	1 S27.36		---	---	(14)#10	---	---	---	---	---	#5@10"
P53	6'–3 7/16" [0'–9 1/4"]	25'–0"	22'–6"	---	---	---	YES	--	1 S27.40		---	---	(5)#10	---	---	---	---	---	#5@10"

NOTES:

1. SEE NOTE S26.1 FOR NOTES.
2. * INDICATES DECK PANEL SHALL NOT BE FABRICATED UNTIL POST DEMOLITION SURVEY IS COMPLETE AND CONFIRMED.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
DRAWN BY DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL SCHEDULE - SHEET 4

6552
S26.4
SH 289 OF 499

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S26.4

BINDING EDGE

PRECAST DECK PANEL SCHEDULE

PANEL TYPE	NOMINAL WIDTH X'–X" [X'–X"]*	NOMINAL LENGTH "L"	ACTUAL LENGTH "Ln"	NON–HAUNCH LENGTH "Lm"	REBAR LENGTH "Lb"	REBAR LENGTH "Lc"	ONE END HOOKED TOP BAR	DRAIN HOLES	REF. PLAN	CONCRETE STRENGTH	FINAL PRESTRESS (KIPS)	# PRESTRESS STRANDS	BOTTOM REINF.	TOP REINFORCEMENT			SHEAR REINFORCEMENT		
														BAR 'a'	BAR 'b'	BAR 'c'	ZONE 1	ZONE 2	END TO END
P55*	10'–7" [7'–5"]	25'–0"	VARIES	22'–6"	---	---	YES	--	1 S27.36	f'c @ RELEASE = 4000 PSI MIN f'c @ 28 DAYS = 6000 PSI MIN f'c @ ERECTION = 6000 PSI MIN	---	---	(14)#10	---	---	---	---	---	#5@10"
P56*	10'–7" [7'–5"]	25'–0"	VARIES	22'–6"	---	---	YES	--	1 S27.36		---	---	(14)#10	---	---	---	---	---	#5@10"
P1T	5'–4"	25'–0"	22'–6"	–	6'–6"	---	---	YES	4 S27.7A		382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@10"	---
P1U	5'–4"	25'–0"	22'–6"	–	6'–6"	---	---	YES	1 S27.7B		382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@10"	---
P1Y	5'–4"	25'–0"	22'–6"	–	6'–6"	---	---	YES	2 S27.7B		382	14	(5)#4	(10)#11	(2)#11	---	#5@12"	#5@10"	---
P1W	2'–4"	25'–0"	22'–6"	–	---	---	---	--	3 S27.16A		111	4	(4)#4	(4)#11	---	---	#5@12"	#5@12"	---
P1P	2'–4"	25'–0"	22'–6"	–	---	---	---	--	4 S27.16A		111	4	(4)#4	(4)#11	---	---	#5@12"	#5@12"	---
P1N	5'–4"	25'–0"	22'–6"	–	---	---	---	YES	2 S27.23A		431	16	(4)#4	(10)#11	---	---	#5@12"	#5@6"	---
P1Z	5'–4"	20'–0"	17'–6"	–	6'–6"	---	---	YES	2 S27.8		326	10	(5)#4	(10)#11	---	---	#5@12"	#5@6"	---
P1M	3'–4"	25'–0"	22'–6"	–	---	---	---	--	2 S27.39		166	6	(6)#4	(6)#11	---	---	#5@12"	#5@12"	---
P3M	5'–0"	25'–0"	21'–6"	–	6'–6"	---	---	YES	1 S27.12		375	14	(4)#4	(10)#11	(4)#11	---	#5@12"	#5@10"	---
P8H	8'–6"	12'–6"	10'–0"	–	---	---	---	YES	1 S27.6A		---	---	(18)#11	(2)#10	---	(3)#10	---	---	#6@4 3/4"

NOTES:

1. SEE NOTE S26.1 FOR NOTES.
2. * INDICATES DECK PANEL SHALL NOT BE FABRICATED UNTIL POST DEMOLITION SURVEY IS COMPLETE AND CONFIRMED.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL SCHEDULE - SHEET 5

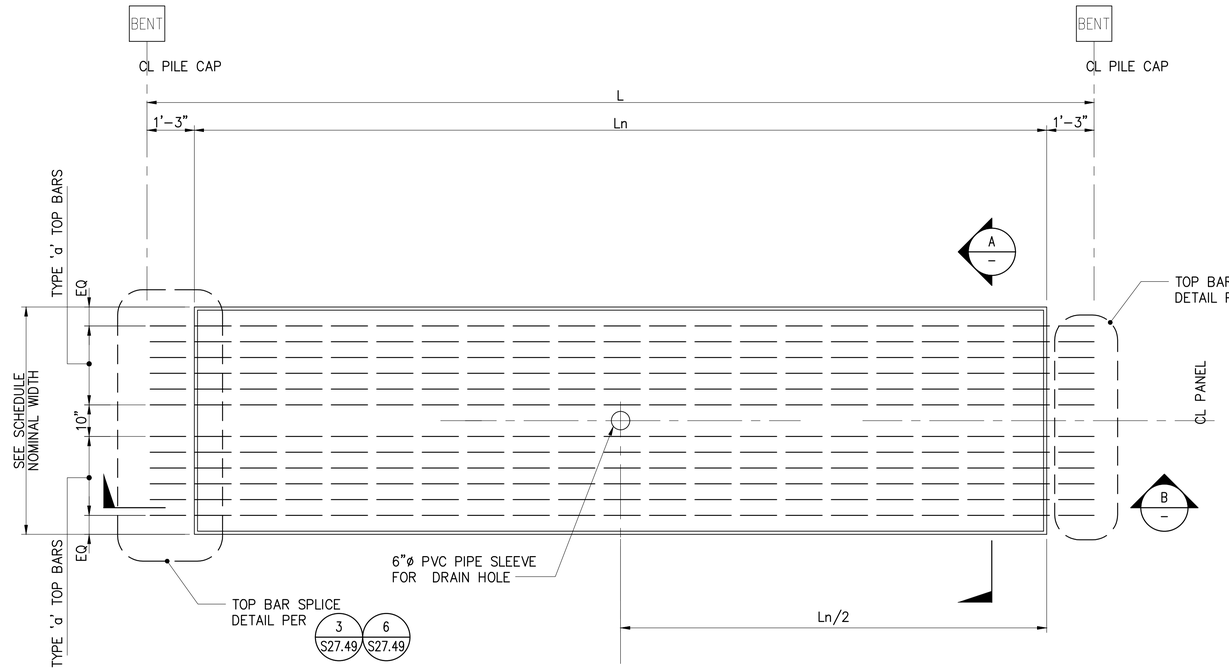
6552
S26.5
SH 290 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

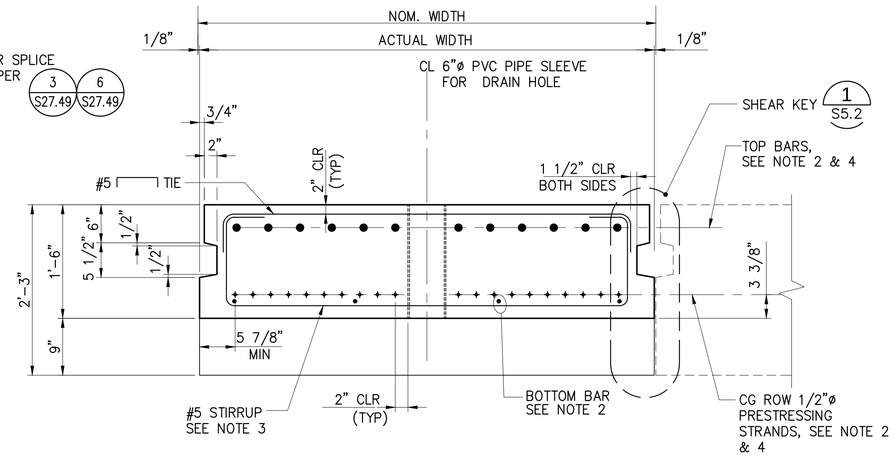
PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S26.5

BINDING EDGE



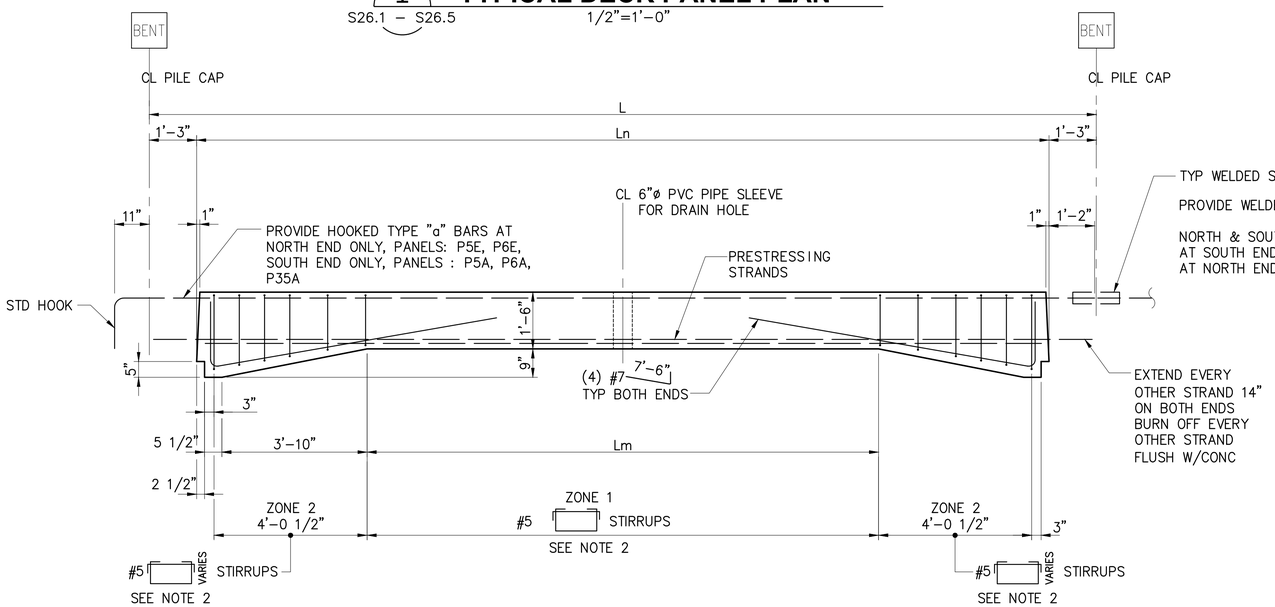
1 TYPICAL DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



A TYPICAL DECK PANEL SECTION

– 1"=1'-0"

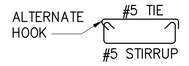


B TYPICAL DECK PANEL ELEVATION

– 1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P5, P5A, P5B, P5E, P6, P6A, P6B, P6E, P35, P35A, P35B
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. PROVIDE 135° HOOKS ON STIRRUPS AND TIES FOR PANEL TYPES P35, P35A, P35B



4. STRANDS (BARS) SHOWN ON THIS DETAIL ARE SCHEMATIC, ACTUAL # OF STRANDS (BARS) SHALL BE ADJUSTED AS SHOWN ON SCHEDULE S26.1–S26.5. STRANDS (BARS) SHALL BE EQUALLY SPACED.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535053041

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA

DRAWING SCALE: AS NOTED

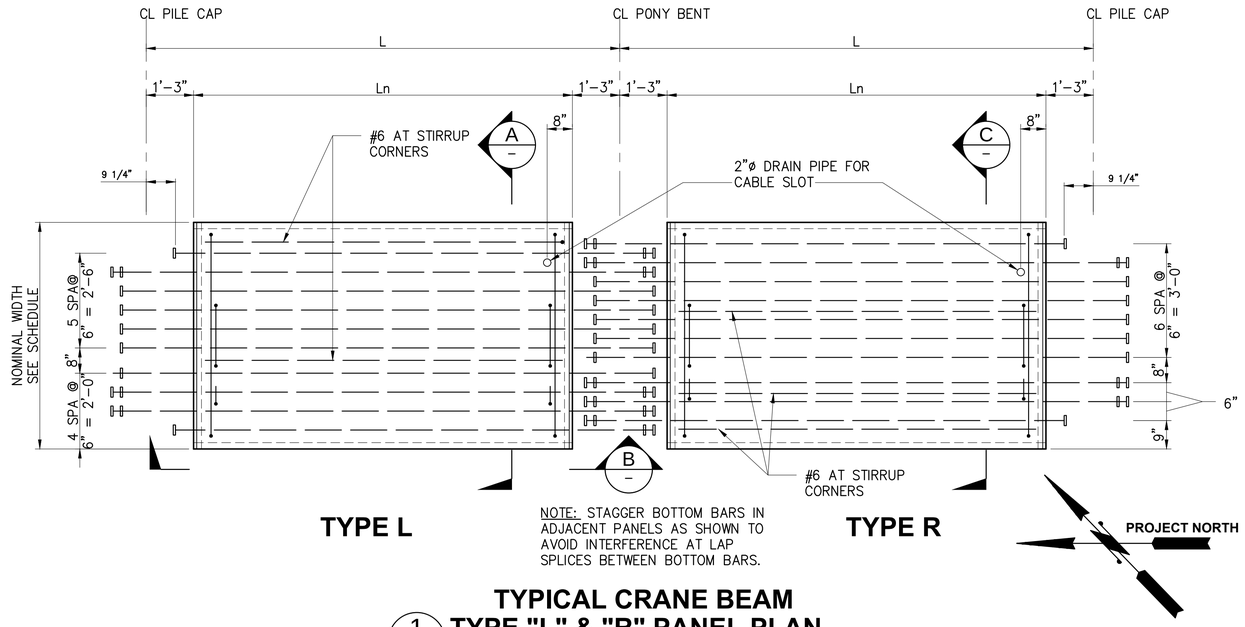
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.1
SH 291 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

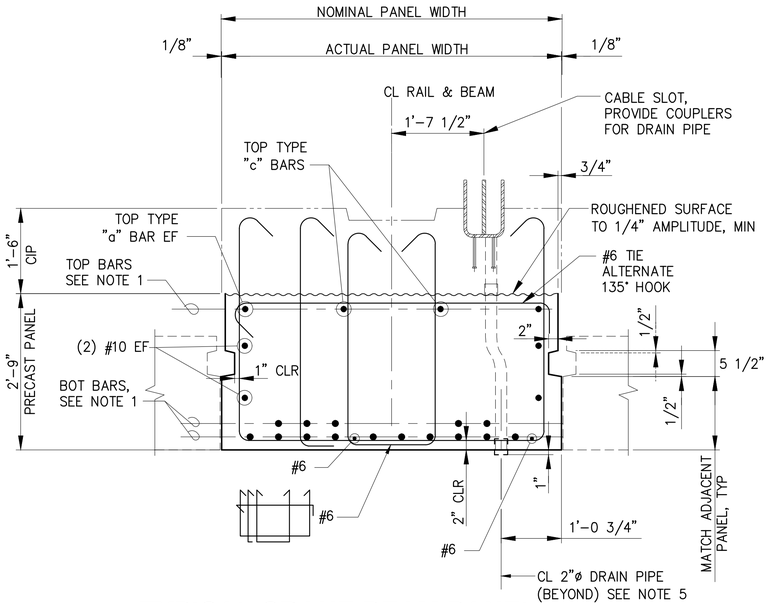
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.1



NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

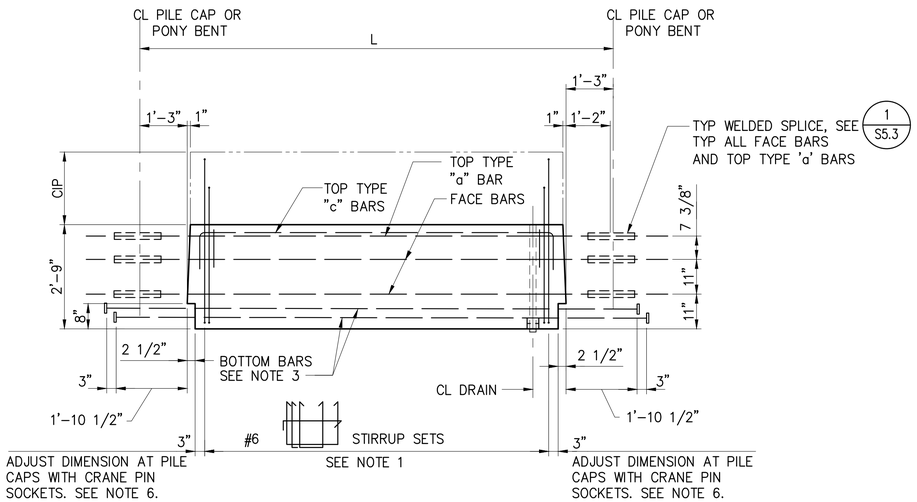
TYPICAL CRANE BEAM
1 TYPE "L" & "R" PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



TYPICAL CRANE BEAM PANEL
A TYPE "L" SECTION P2-P2B

S27.27 – S27.29 3/4"=1'-0"

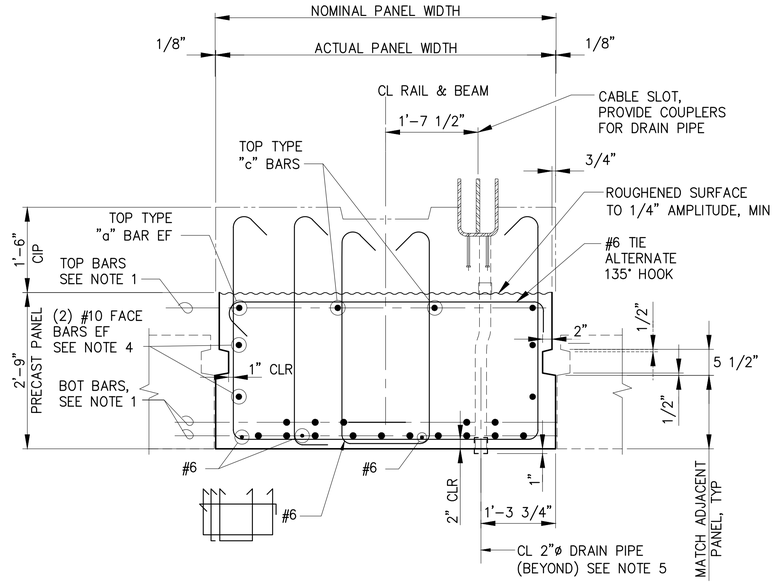


TYPICAL TYPE "L" AND "R" CRANE BEAM
B PANEL ELEVATION

– 1/2"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPES P2 & P2B
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
5. 2"ø FLEX PVC PIPE DRAIN WITH COUPLERS AT TOP AND BOTTOM OF PIPE.
6. COORDINATE PANELS WITH CRANE PIN SOCKET LOCATIONS PER SHEETS S5.1–S5.5. AT CRANE PIN SOCKETS CHANGE TYPICAL 3" DISTANCE TO 9" AND PROVIDE A DOUBLE STIRRUP SET.



TYPICAL CRANE BEAM PANEL
C TYPE "R" SECTION P2-P2B

S27.28 – S27.29 3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2539/253.383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
PROJ. ENGR DATE
tlemons Jul 20, 2018 PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 2

6552
S27.2
SH 292 OF 499

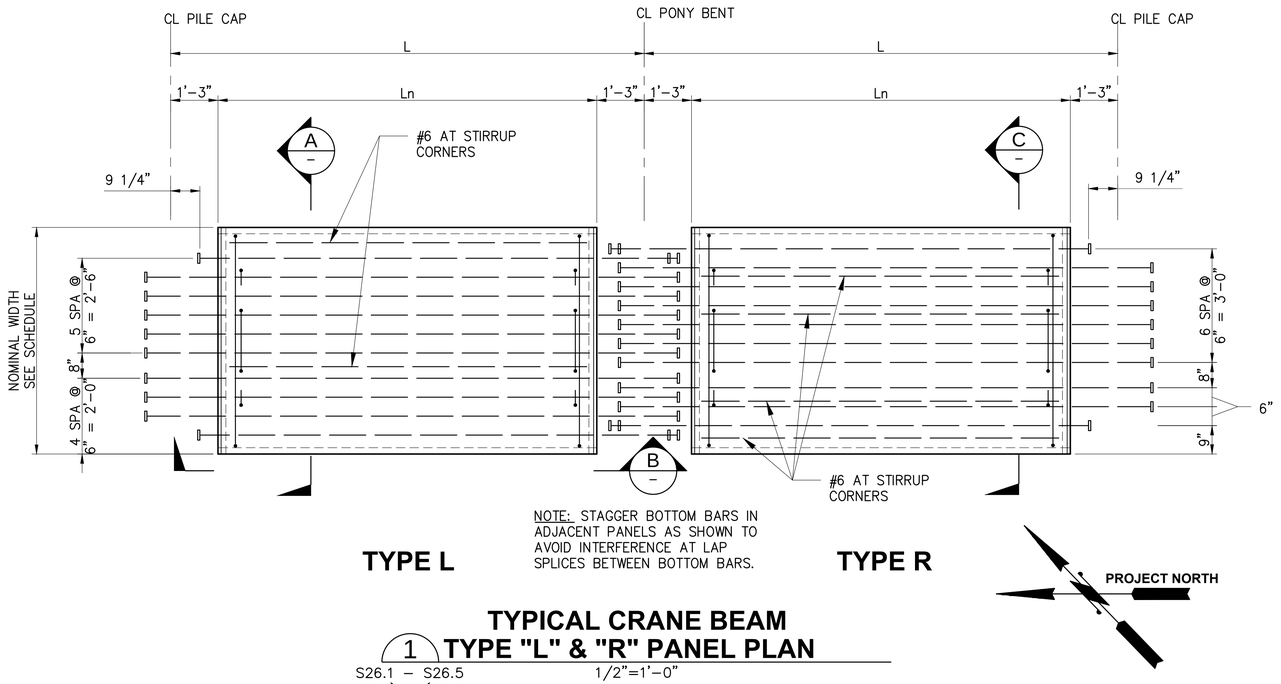
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.2

BINDING EDGE



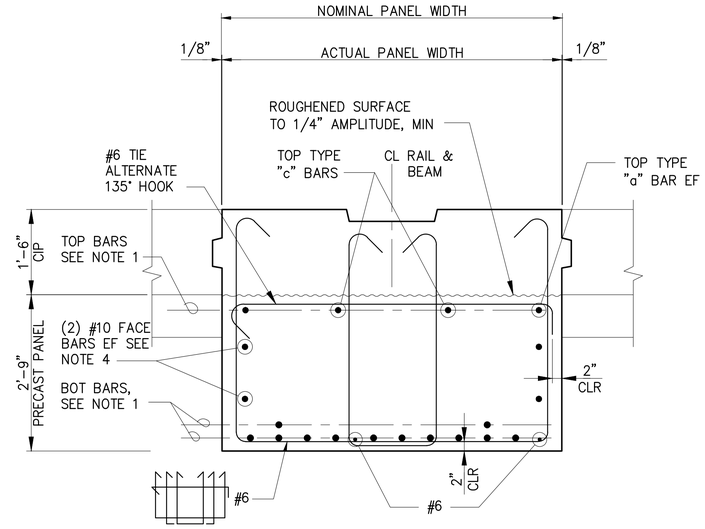
NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

TYPE L **TYPE R**

PROJECT NORTH

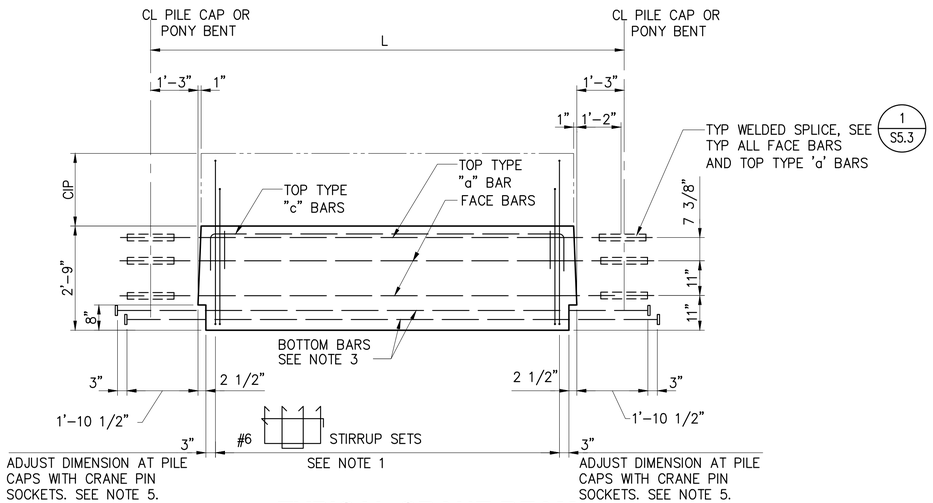
TYPICAL CRANE BEAM TYPE "L" & "R" PANEL PLAN

1 / S26.1 – S26.5 — 1/2"=1'-0"



TYPICAL LANDSIDE CRANE BEAM PANEL TYPE "L" P8, P8B

A / – — 3/4"=1'-0"

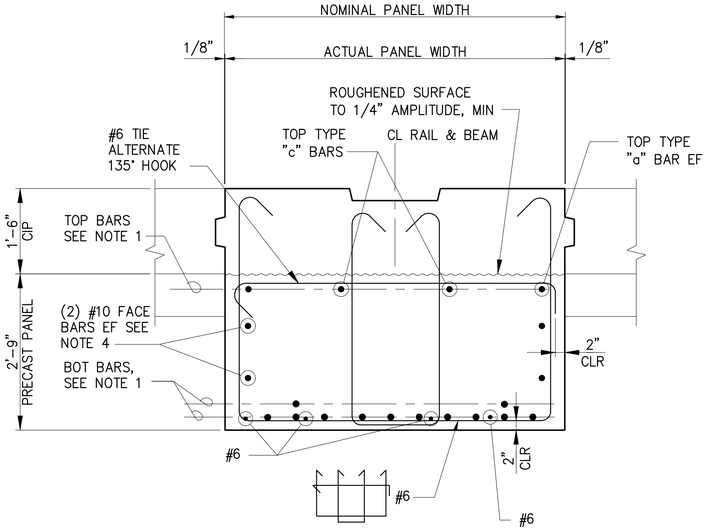


TYPICAL CRANE BEAM PANEL ELEVATION

B / – — 1/2"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPES P8 & P8B
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
5. COORDINATE PANELS WITH CRANE PIN SOCKET LOCATIONS PER SHEETS S5.1–S5.5. AT CRANE PIN SOCKETS CHANGE TYPICAL 3" DISTANCE TO 9" AND PROVIDE A DOUBLE STIRRUP SET.



TYPICAL LANDSIDE CRANE BEAM PANEL TYPE "R" P8, P8B

C / – — 3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE

APPROVED:
DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 3

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tlemons Jul 20, 2018
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA
PARCEL:	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837

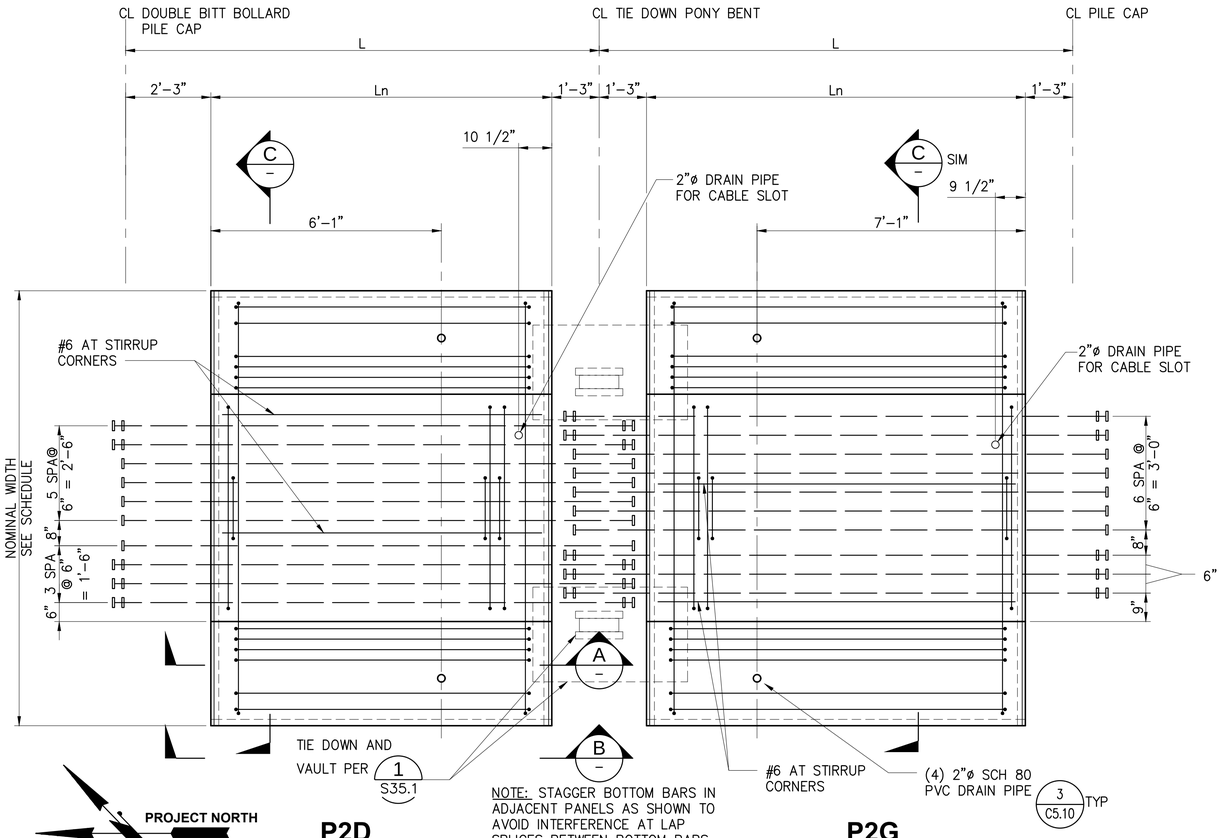
6552
S27.3
SH 293 OF 499

CONT/CONS: 0701136		
M. ID: 091251		
PHASE: CONFORMED		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.3

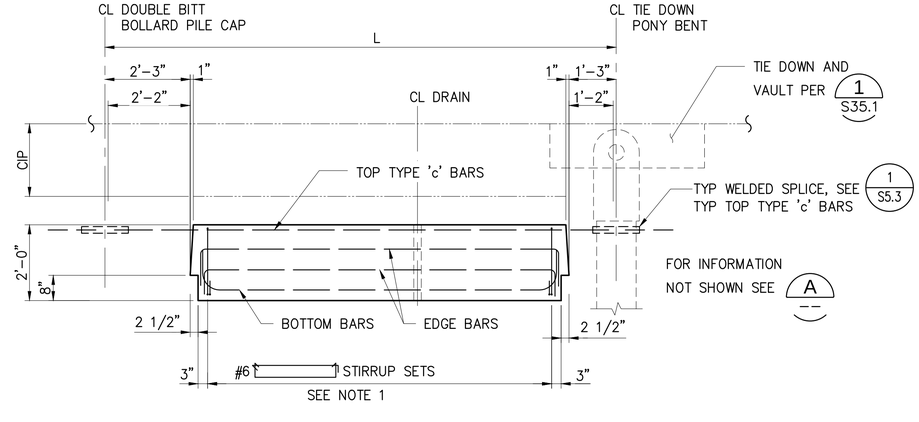
BINDING EDGE



NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

1 CRANE BEAM - P2D TYPE "L" AND P2G TYPE "R" PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"

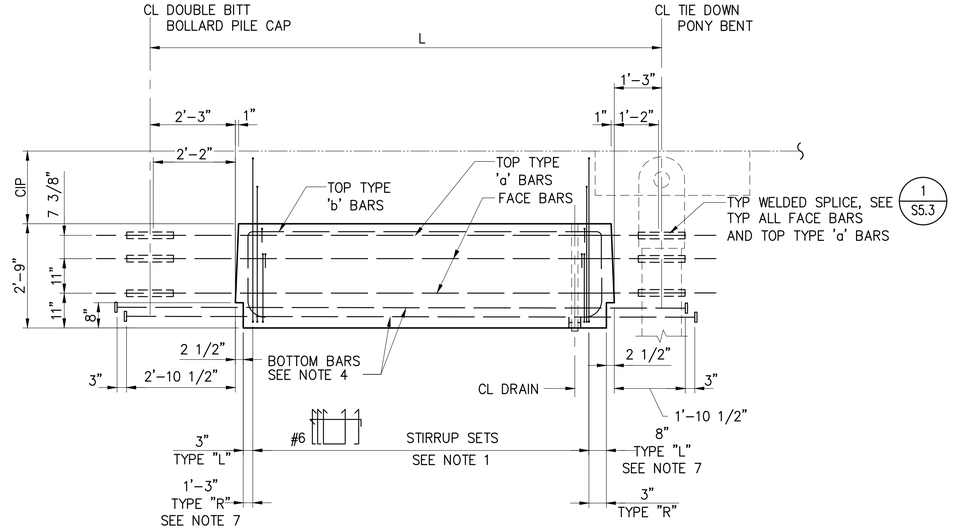


B CRANE BEAM PANEL ELEVATION

1/2"=1'-0"

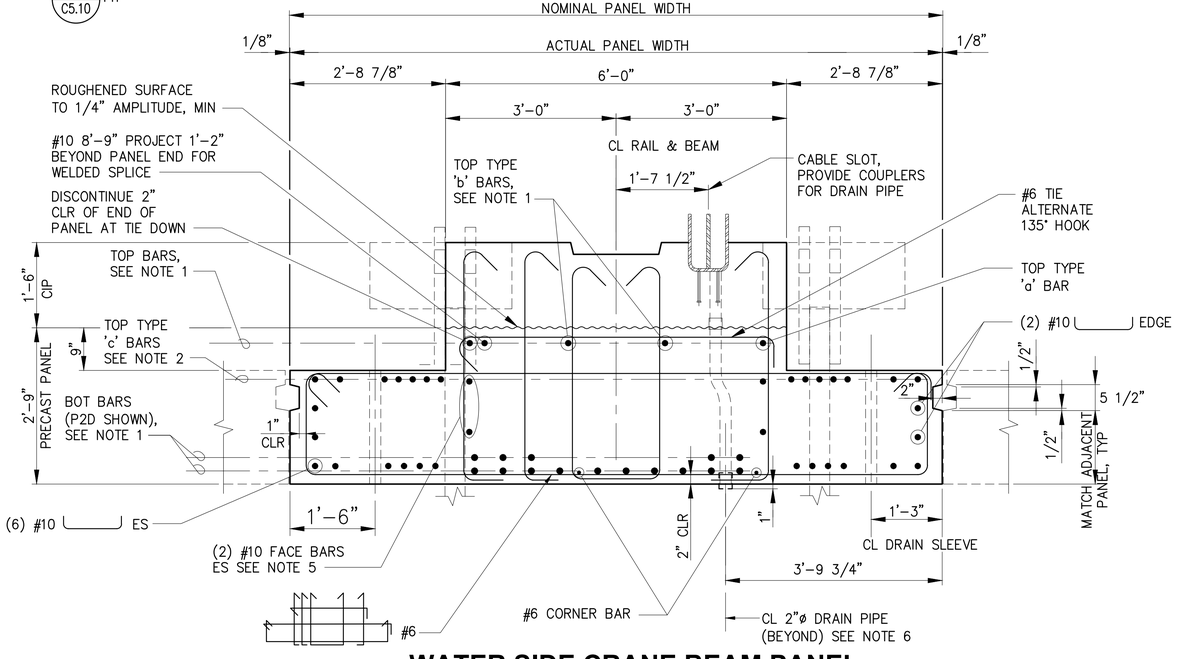
NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. PROVIDE 'c' BARS TO MATCH SIZE AND NUMBER W/ADJACENT P1 & P3 PANEL BARS FOR WELD SPLICE
3. USE THIS SHEET FOR DECK PANEL TYPES P2D & P2G
4. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
5. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
6. 2"ø FLEX PVC PIPE DRAIN WITH COUPLERS TO BE PLACED AT TOP AND BOTTOM OF PIPE
7. PROVIDE DOUBLE STIRRUP SET AT THIS END



A CRANE BEAM PANEL SECTION

1/2"=1'-0"



C WATER SIDE CRANE BEAM PANEL TYPE "L" SECTION, P2D & P2G & P2H

S27.5 3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tiemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

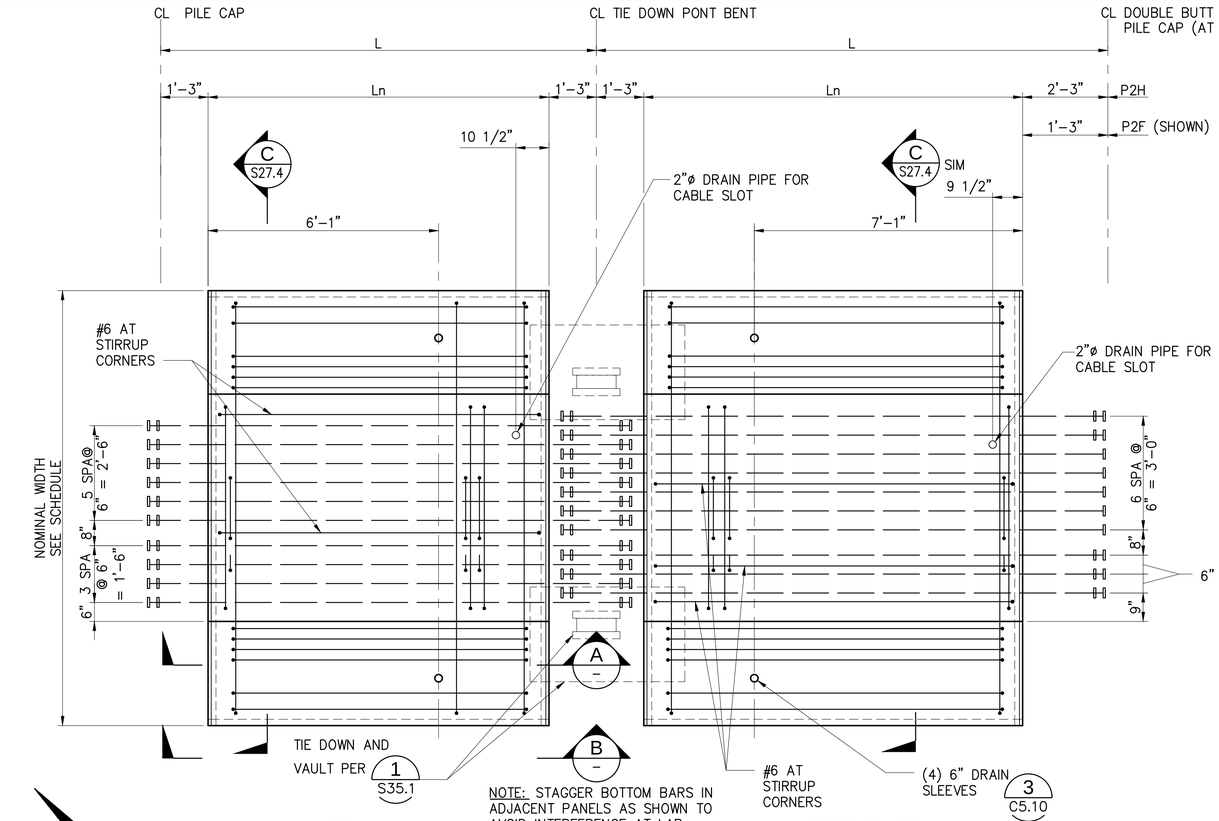
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 4

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.4
SH 294 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.4



NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

P2F TYPE L

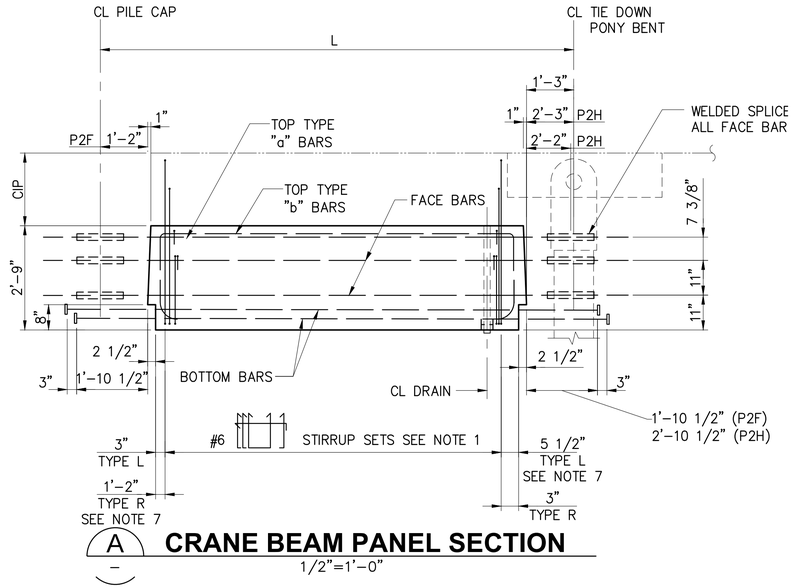
P2G & P2H TYPE R

CRANE BEAM - P2D TYPE "L" AND P2G TYPE "R" PANEL PLAN

1 S26.1 – S26.5 — 1/2"=1'-0"

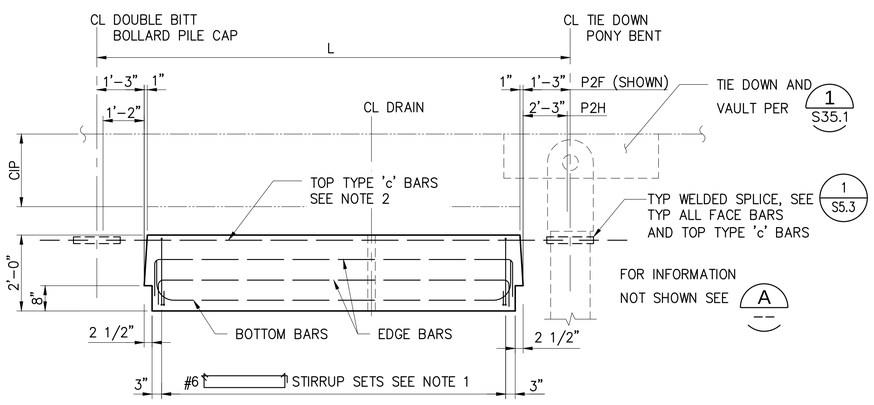
NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. ALIGN 'c' BARS W/ADJACENT P1 & P3 PANEL BARS FOR LAP SPLICE
3. USE THIS SHEET FOR DECK PANEL TYPES P2F & P2H
4. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
5. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
6. 2"ø FLEX PVC PIPE DRAIN WITH COUPLERS TO BE PLACED AT TOP AND BOTTOM OF PIPE
7. PROVIDE DOUBLE STIRRUP SET AT THIS END



A – **CRANE BEAM PANEL SECTION**

1/2"=1'-0"



B – **CRANE BEAM PANEL ELEVATION**

1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-2539/253.383.5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
tlemons	Jul 20, 2018		
DIRECTOR ENG.	DATE		
PRINTED BY:	tlemons		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 5

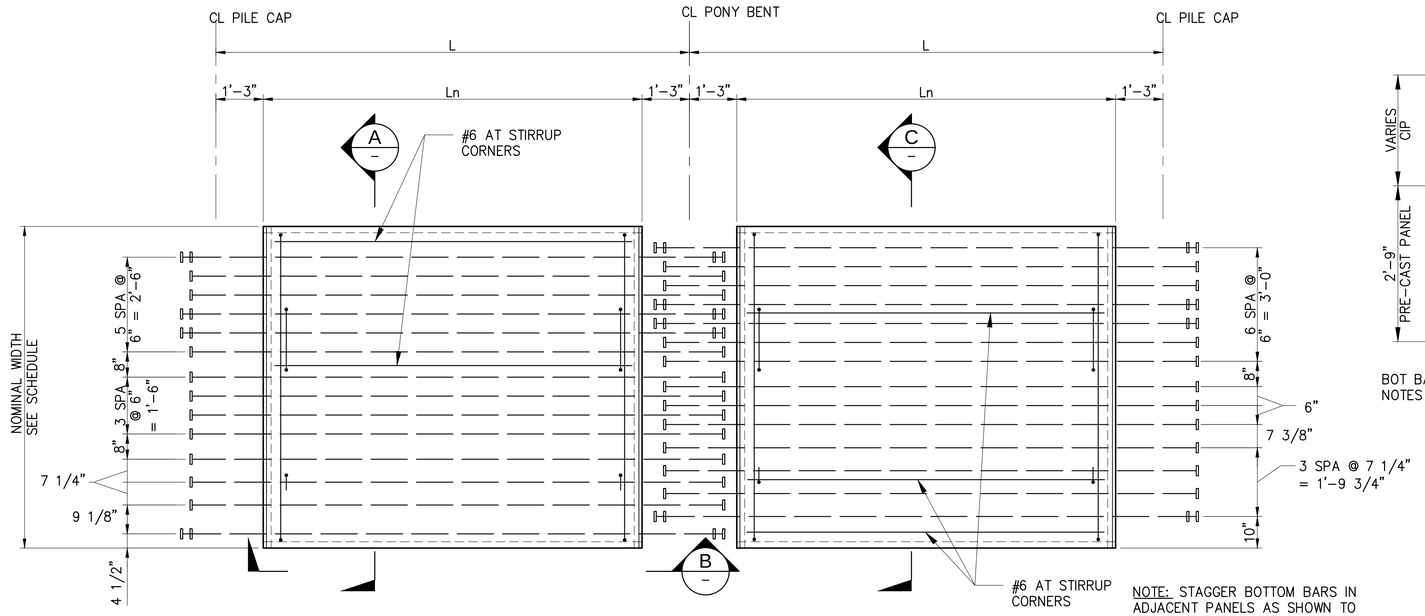
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
SECTION:	27		
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

6552
S27.5
SH 285 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.5

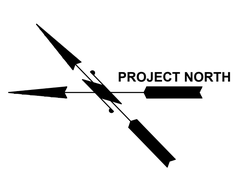


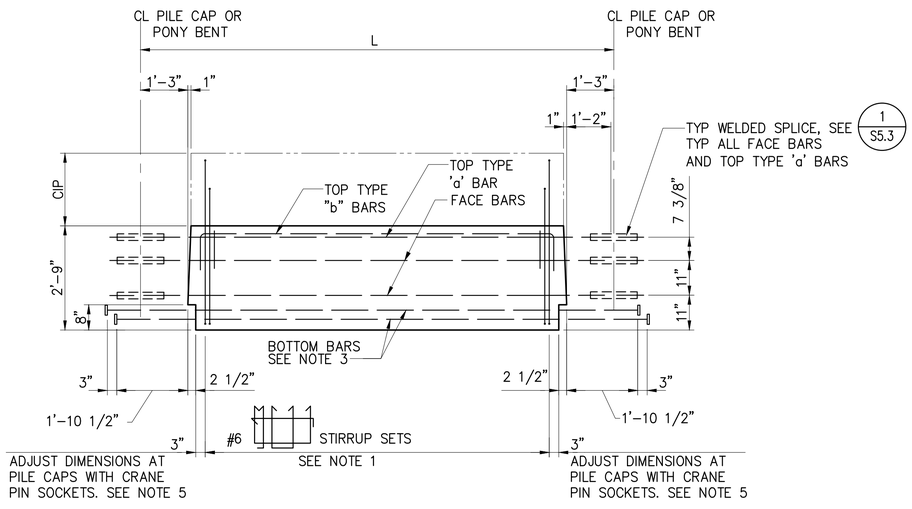
NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

TYPE L **TYPE R**

CRANE BEAM - P8C TYPE "L" AND "R" PANEL PLAN

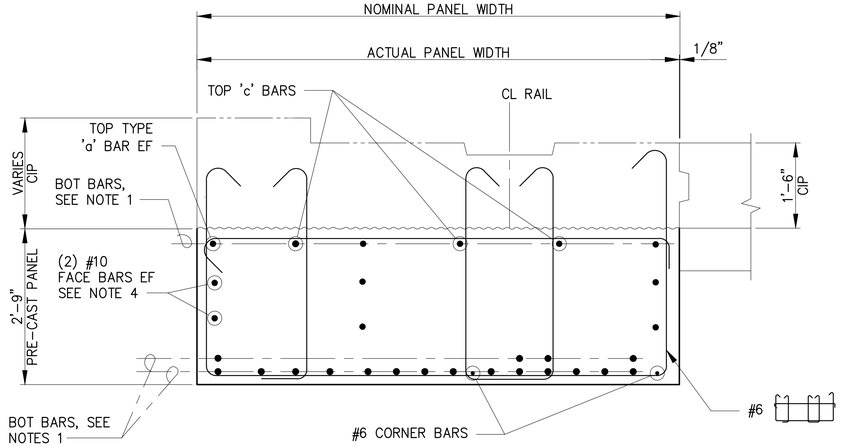
1 / S26.1 – S26.5 — 1/2"=1'-0"





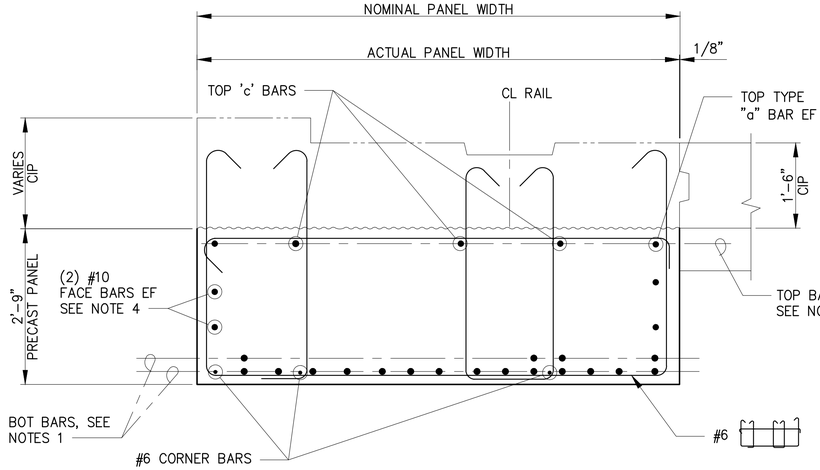
CRANE BEAM PANEL ELEVATION

B — 1/2"=1'-0"



WIDE LANDSIDECRANE BEAM PANEL SECTION TYPE "L" P8C

A — 3/4"=1'-0"



CRANE BEAM PANEL SECTION TYPE "R" P8C

C — 3/4"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P8C
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
5. COORDINATE PANELS WITH CRANE PIN SOCKET LOCATIONS PER SHEETS S5.1–S5.5. AT CRANE PIN SOCKETS CHANGE TYPICAL 3" DISTANCE TO 9" AND PROVIDE A DOUBLE STIRRUP SET.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	DIRECTOR ENG.	PROJ. ENGR	DATE
	PRINTED BY:	tlemons Jul 20, 2018	
	PORT ADDRESS:	ONE SITCUM PLAZA	
	DRAWING SCALE:	AS NOTED	TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 6

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:			

6552
S27.6
SH 296 OF 499

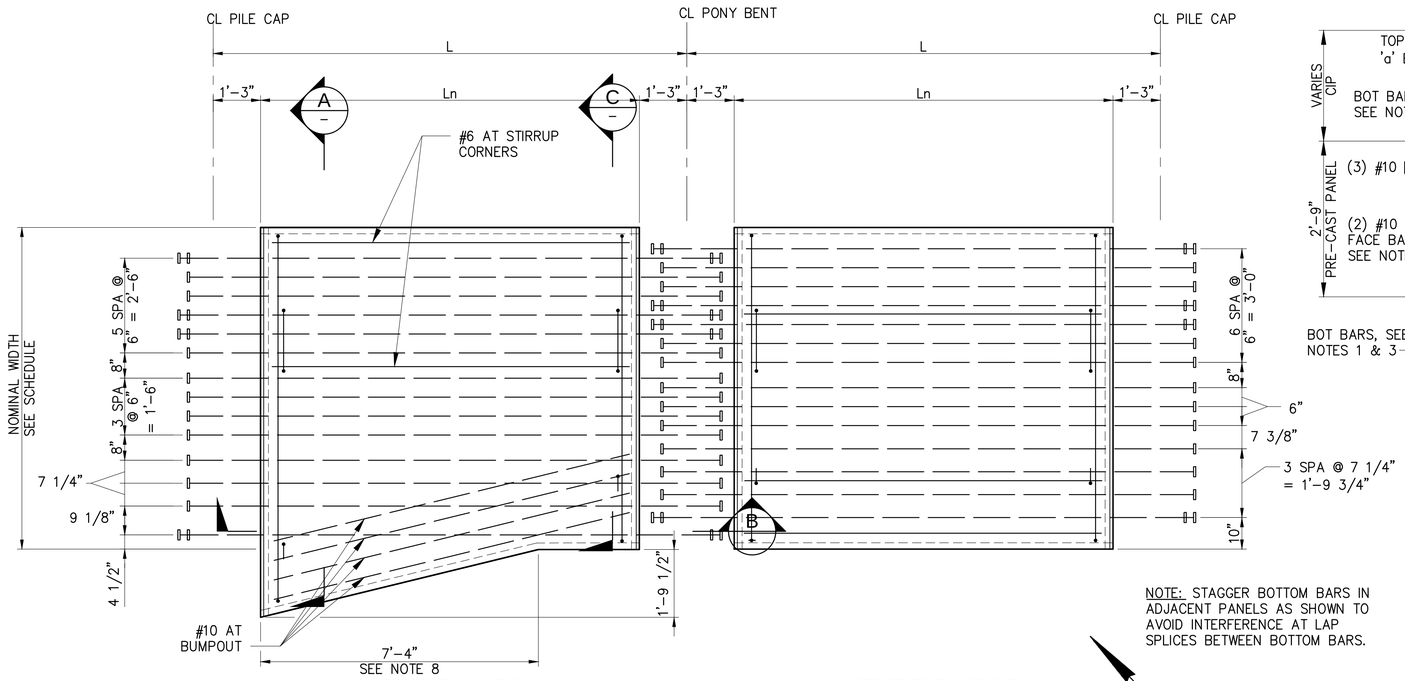
CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.6

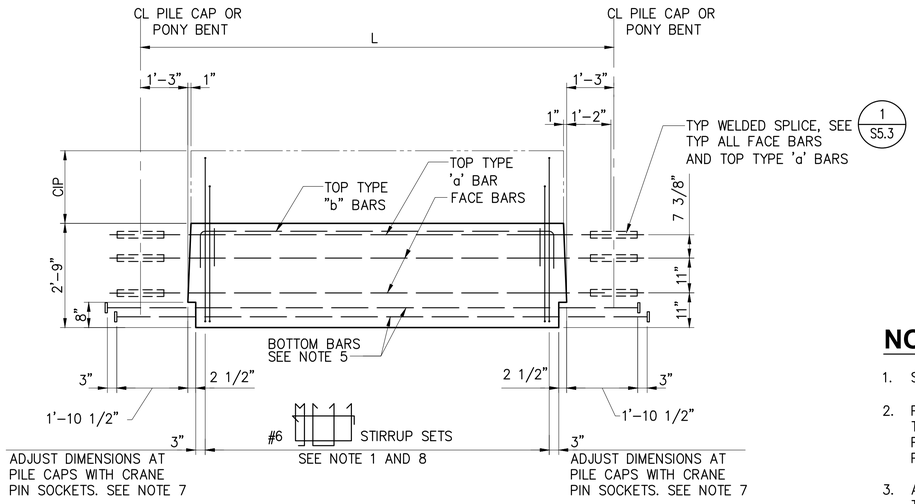
BINDING EDGE



TYPE L (P8H) **TYPE R (P8C)**

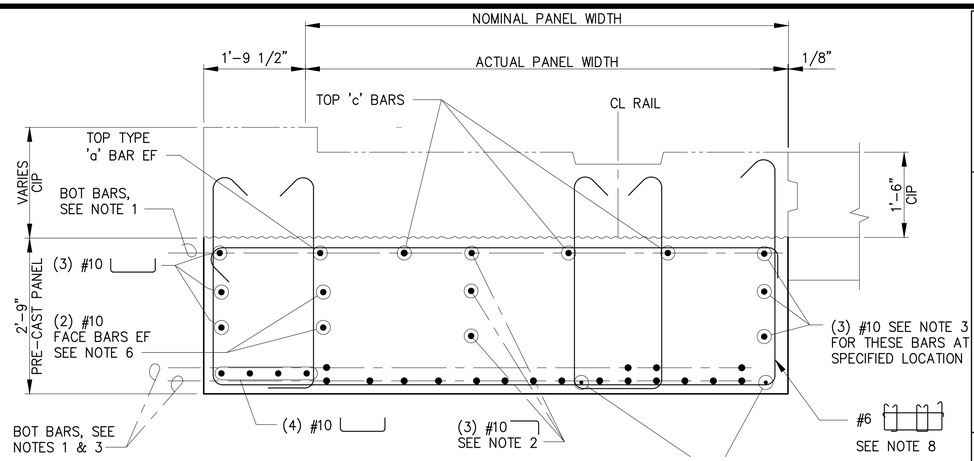
CRANE BEAM - P8C TYPE "L" AND "R" PANEL PLAN

1 / S26.1 – S26.4 — 1/2"=1'-0"



CRANE BEAM PANEL ELEVATION

B / – — 1/2"=1'-0"

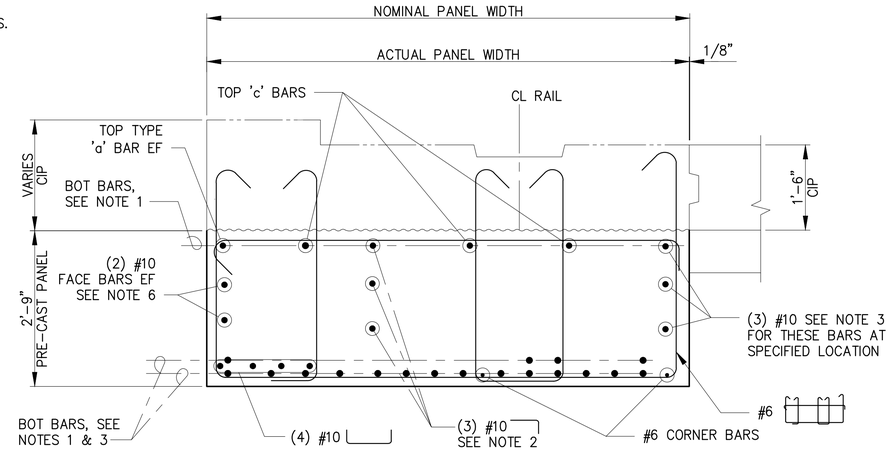


WIDE LANDSIDECRANE BEAM PANEL SECTION TYPE "L" P8H

A / – — 3/4"=1'-0"

NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

PROJECT NORTH



CRANE BEAM PANEL SECTION TYPE "R" P8H

C / – — 3/4"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. PROVIDE (3) #10 BARS AT PANEL P8C AT BENT 7 TO SPLICE WITH FACE BARS FROM TYPICAL P8 PANEL, THESE BARS NOT REQUIRED AT OTHER P8C PANELS.
3. ALIGN TO SPLICE THESE BARS @ BENT 7 TO TYPICAL P8 PANEL
4. USE THIS SHEET FOR PANEL TYPE P8H
5. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
6. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
7. COORDINATE PANELS WITH CRANE PIN SOCKET LOCATIONS PER SHEETS S5.1–S5.5. AT CRANE PIN SOCKETS CHANGE TYPICAL 3" DISTANCE TO 9" AND PROVIDE A DOUBLE STIRRUP SET.
8. STIRRUP WIDTH VARIES FROM NORTH FACE OF PANEL TO 7'-4" SOUTH.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

APPROVED:

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
DECK PANEL DETAILS - SHEET 6A

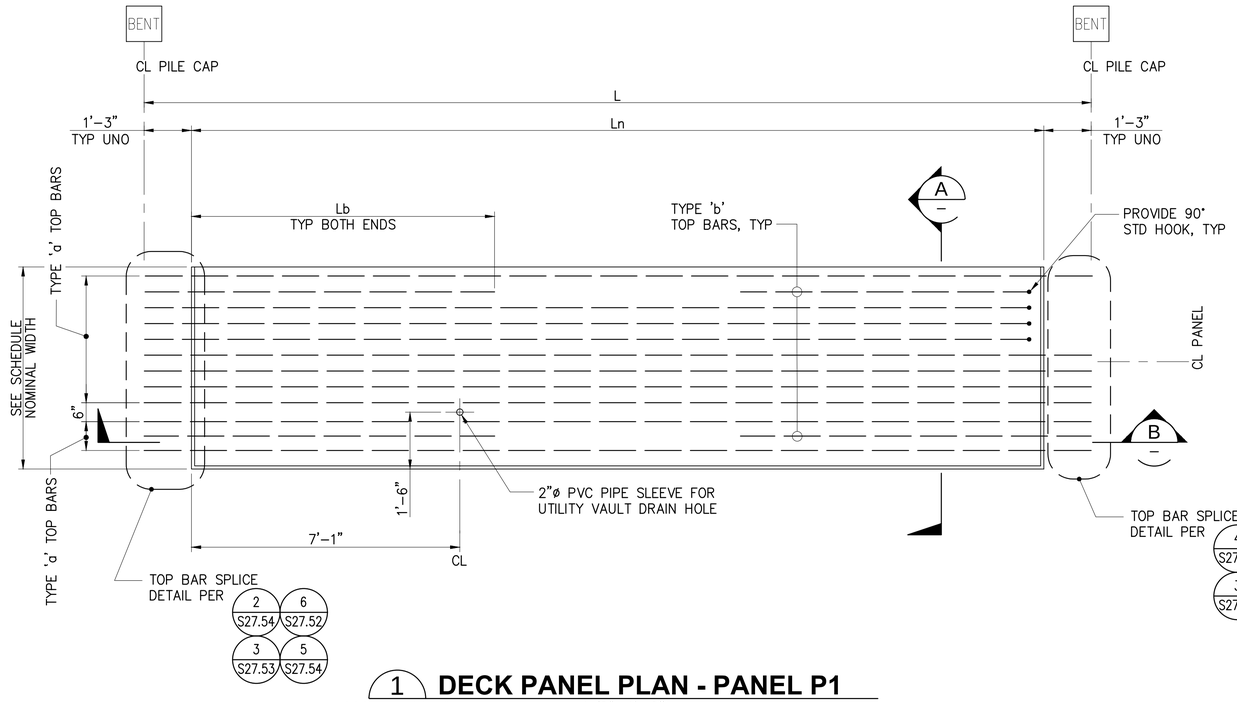
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
S27.6A
SH 297 OF 499

CONT/CONS:	0701036
M. ID:	091251
PHASE:	CONFORMED

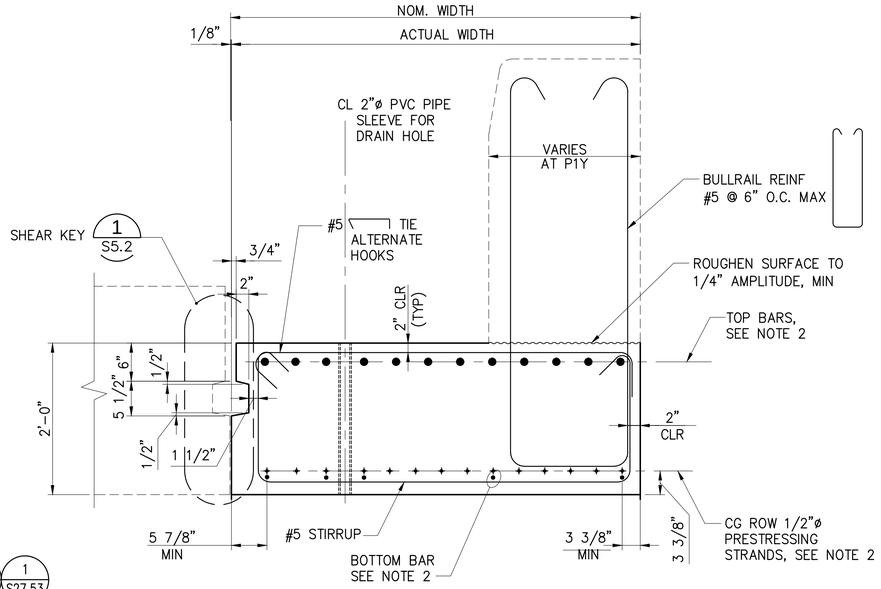
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.6A



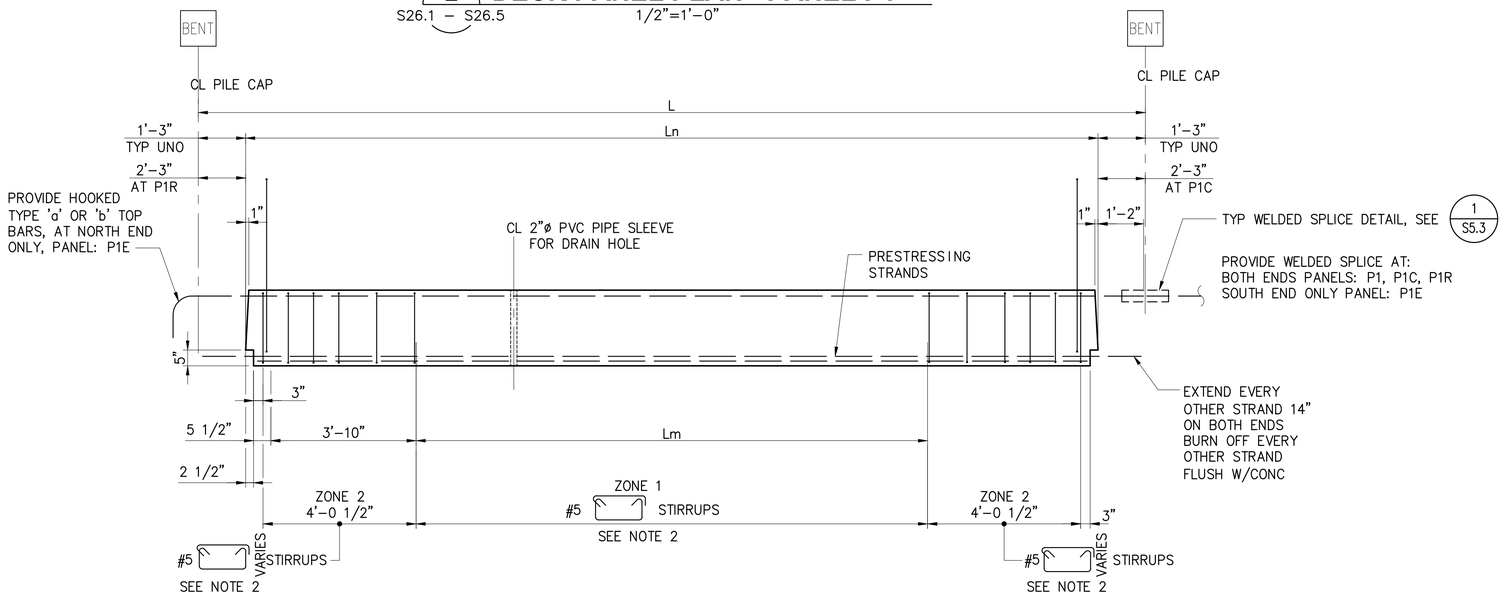
1 DECK PANEL PLAN - PANEL P1

S26.1 – S26.5 1/2"=1'–0"



A – DECK PANEL SECTION

1"=1'–0"



B – DECK PANEL ELEVATION

1/2"=1'–0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPE: P1, P1C, P1E, P1R, P1T, P1U, P1Y
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.7

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 7

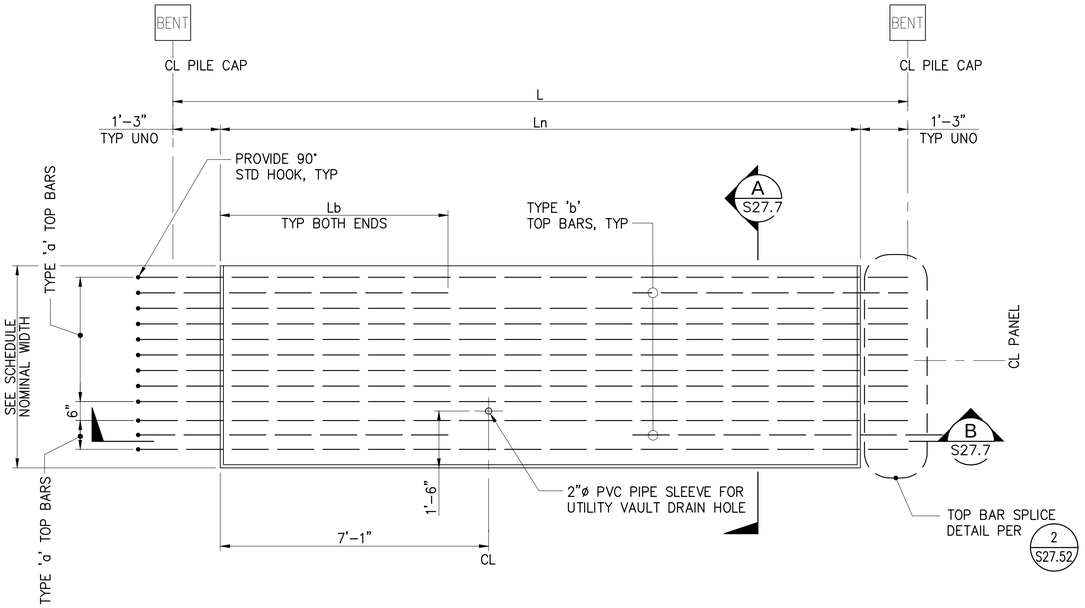
6552
S27.7
SH 298 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

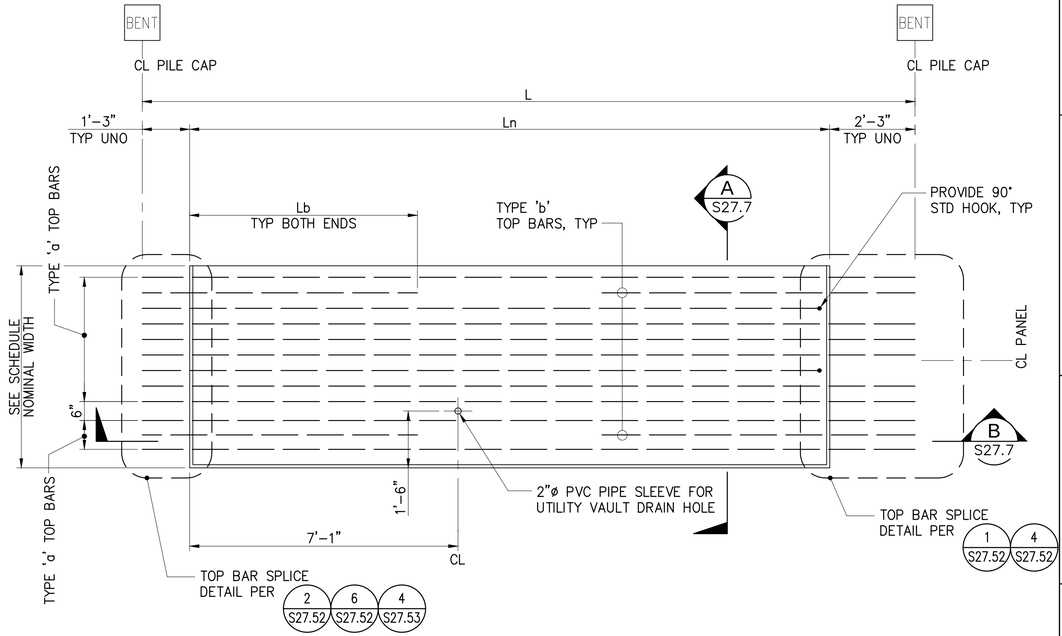
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



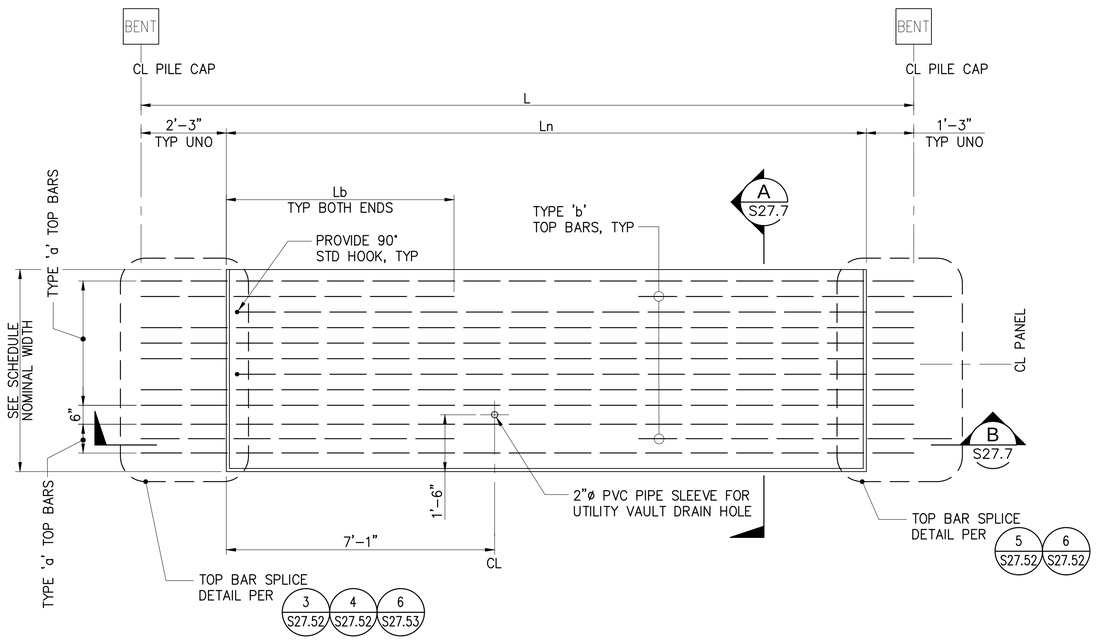
1 DECK PANEL PLAN - PANEL P1E

S26.1 – S26.5 1/2"=1'–0"



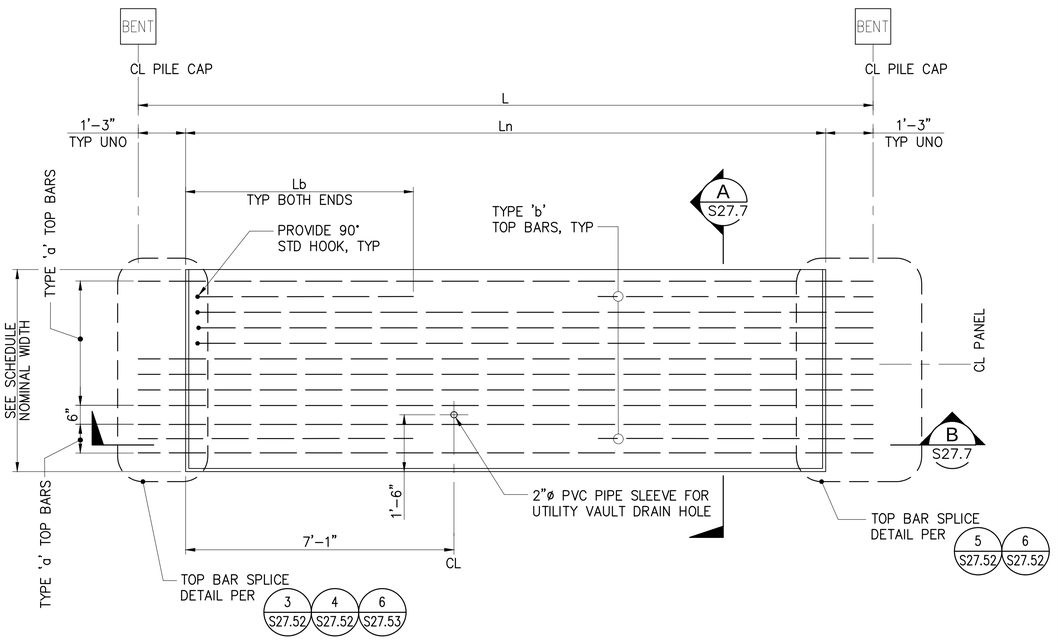
2 DECK PANEL PLAN - PANEL P1C

S26.1 – S26.5 1/2"=1'–0"



3 DECK PANEL PLAN - PANEL P1R

S26.1 – S26.5 1/2"=1'–0"



4 DECK PANEL PLAN - PANEL P1T

S26.1 – S26.5 1/2"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE
TAH	PROJ. ENGR	DATE

APPROVED:

DIRECTOR ENG.	DATE	PRINTED BY:	tlemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA		
TACOMA, WA 98401-1837			

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 7A

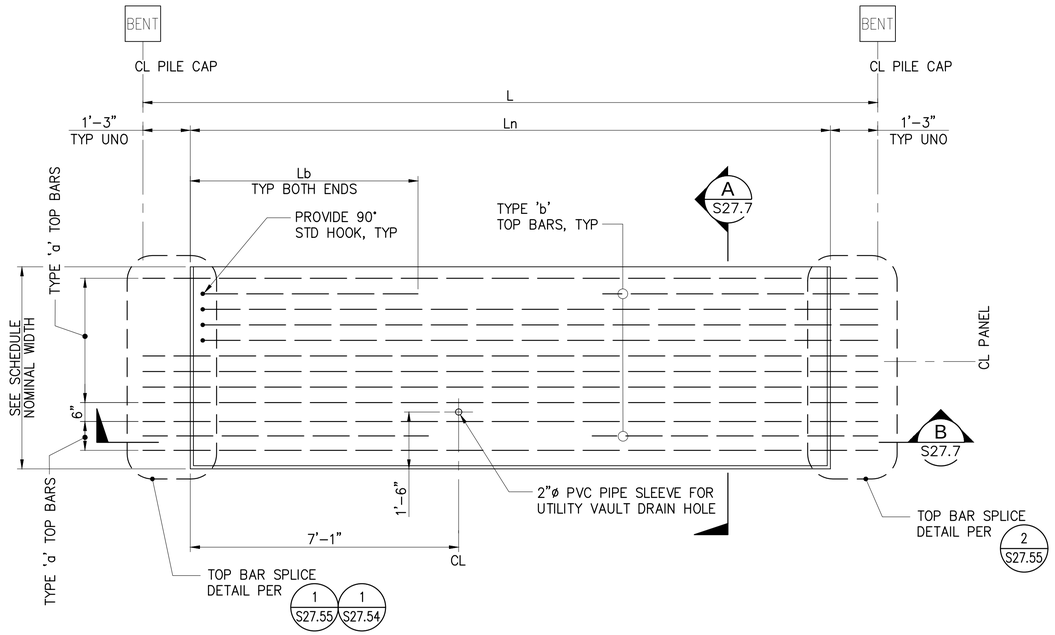
CONT/CONS:	0701136	TOWNSHIP:	21N
M. ID:	091251	DAT–HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:	3E	SECTION:	27
VERT:	MLLW 19.39' @ Tide 22 1933		
DRAWING SCALE:	AS NOTED		

6552
S27.7A
SH 299 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

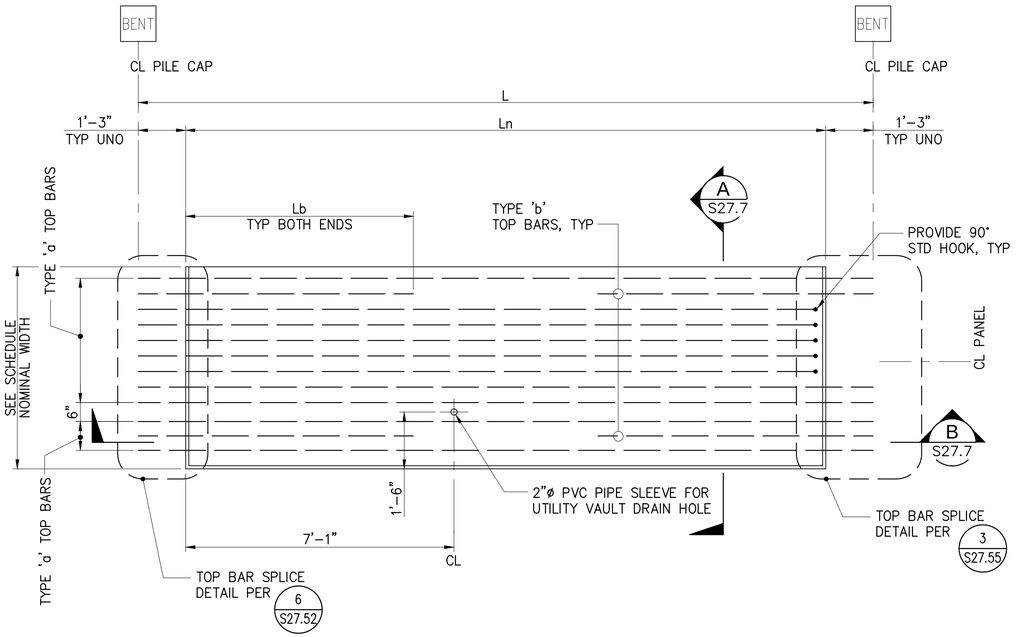
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.7A

BINDING EDGE



1 DECK PANEL PLAN - PANEL P1U

S26.1 – S26.5 1/2"=1'-0"



2 DECK PANEL PLAN - PANEL P1Y

S26.1 – S26.5 1/2"=1'-0"

RECORD DRAWINGS

6552	PIER 4 PHASE 2 RECONFIGURATION DECK PANEL DETAILS - SHEET 7B	APPROVED: DIRECTOR ENG. DATE
S27.7B SH 300 OF 499		PRINTED BY: tlemons Jul 20, 2018 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
CONT/CONS: 070136	TOWNSHIP: 21N RANGE: 3E SECTION: 27	
M. ID: 091251	DAT–HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL: DRAWING SCALE: AS NOTED	

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

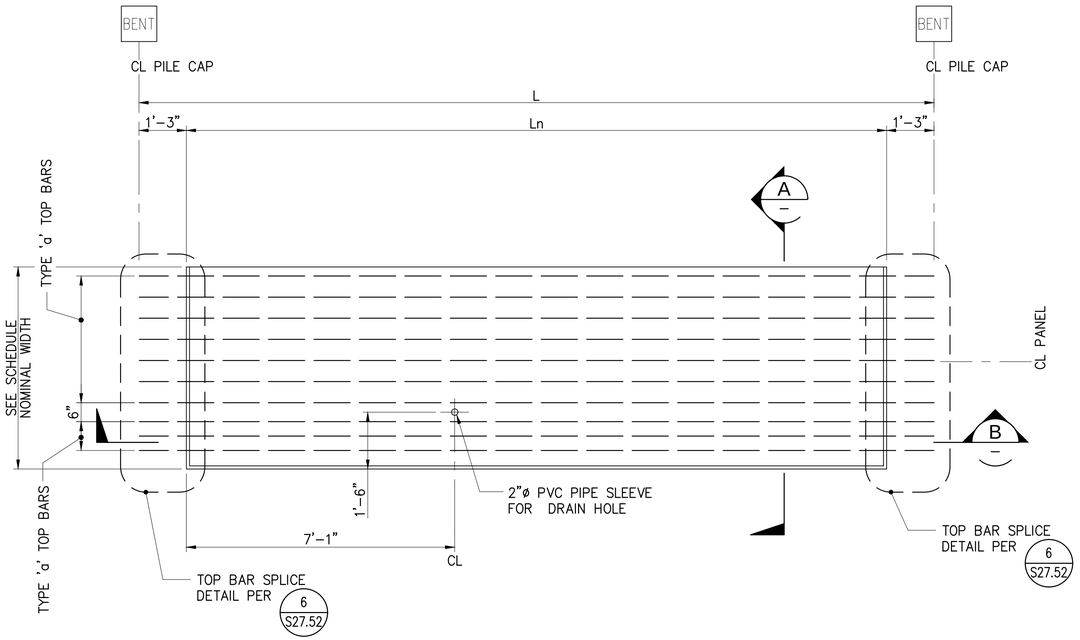
SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

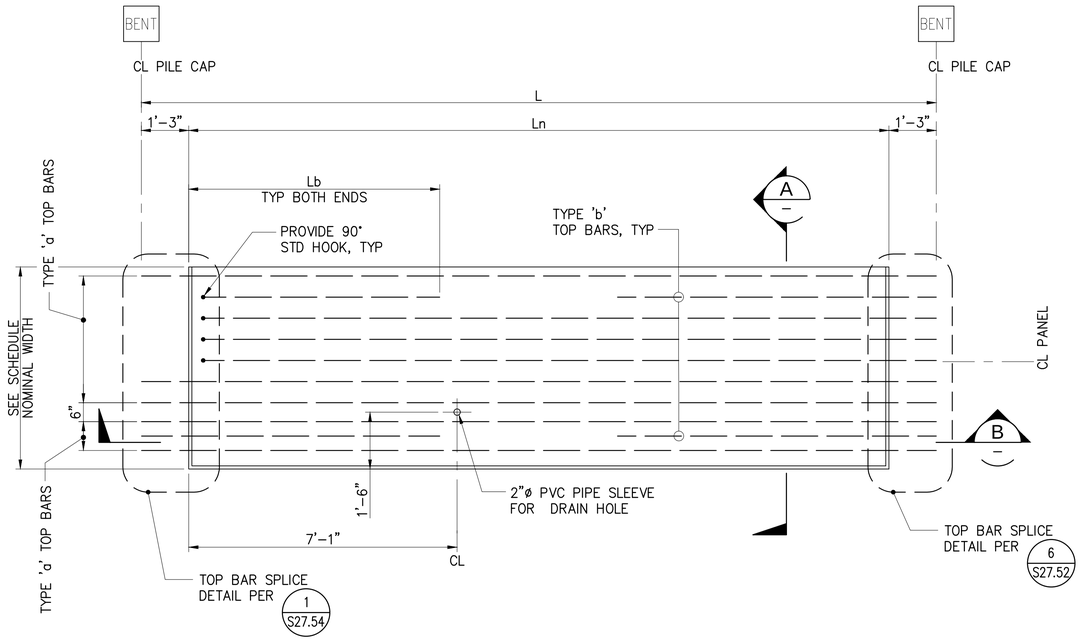
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.7B

BINDING EDGE



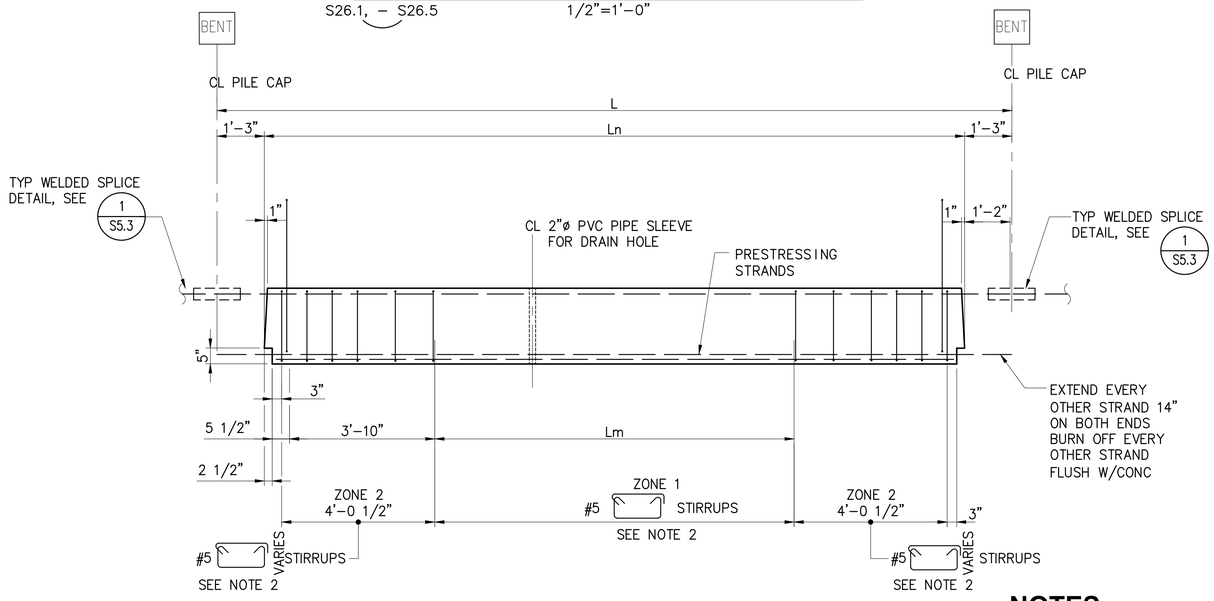
1 DECK PANEL PLAN

S26.1, – S26.5 1/2"=1'-0"



2 DECK PANEL PLAN - PANEL: P1Z

S26.1, – S26.5 1/2"=1'-0"

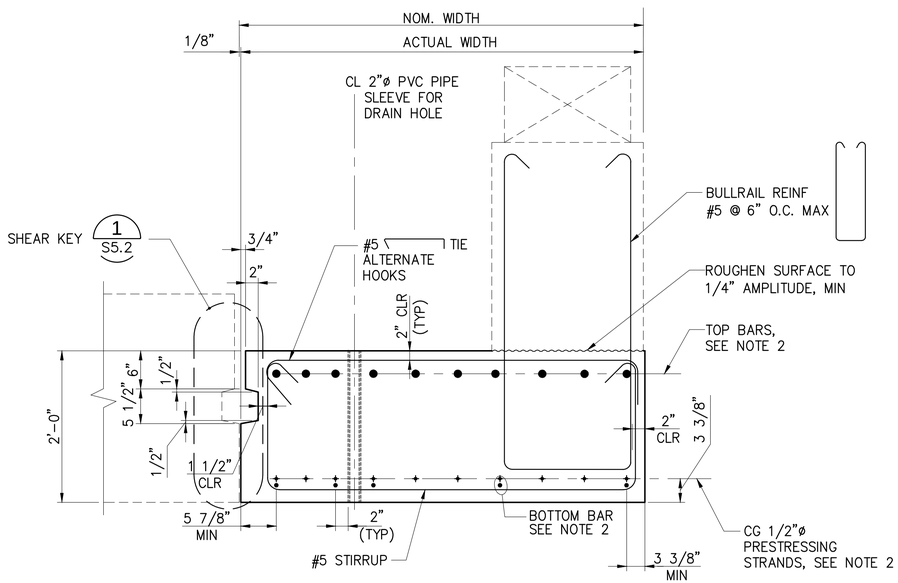


B DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P1B, P1Z
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5



A DECK PANEL SECTION

1"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 8

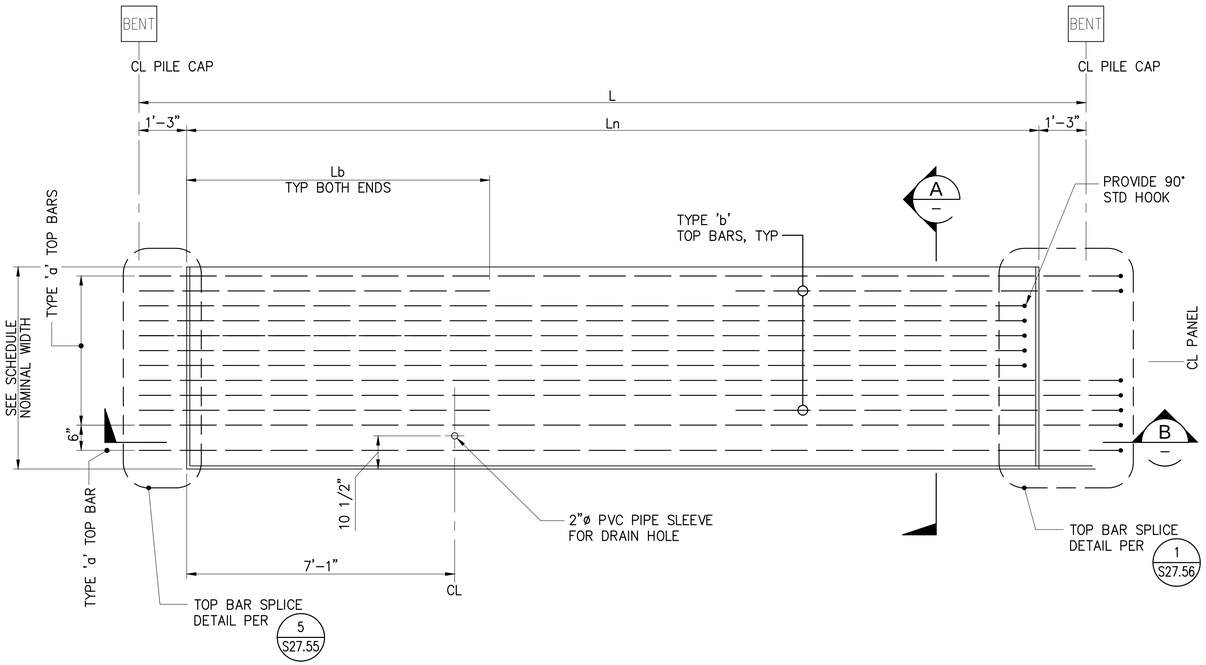
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tlemons Jul 20, 2018
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
PARCEL:	DRAWING SCALE: AS NOTED		

6552
S27.8
SH 301 OF 499

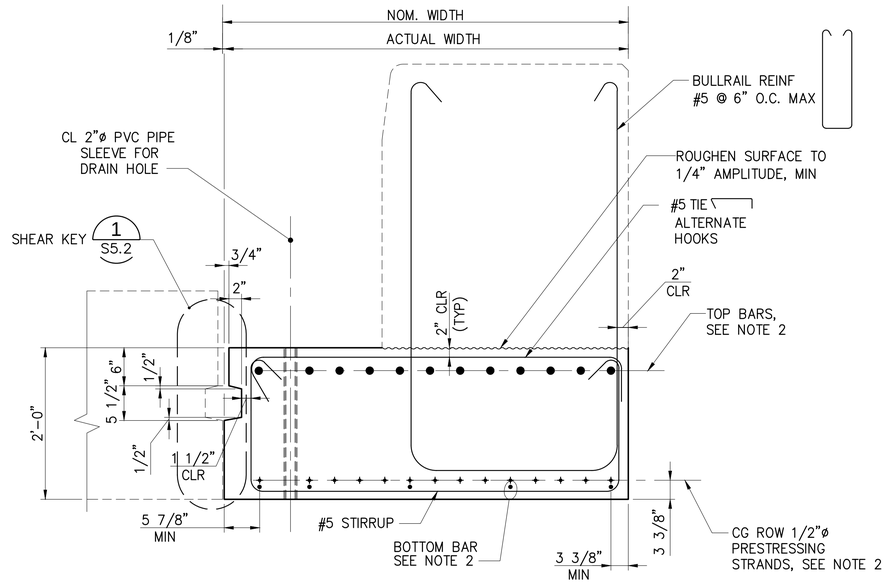
CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

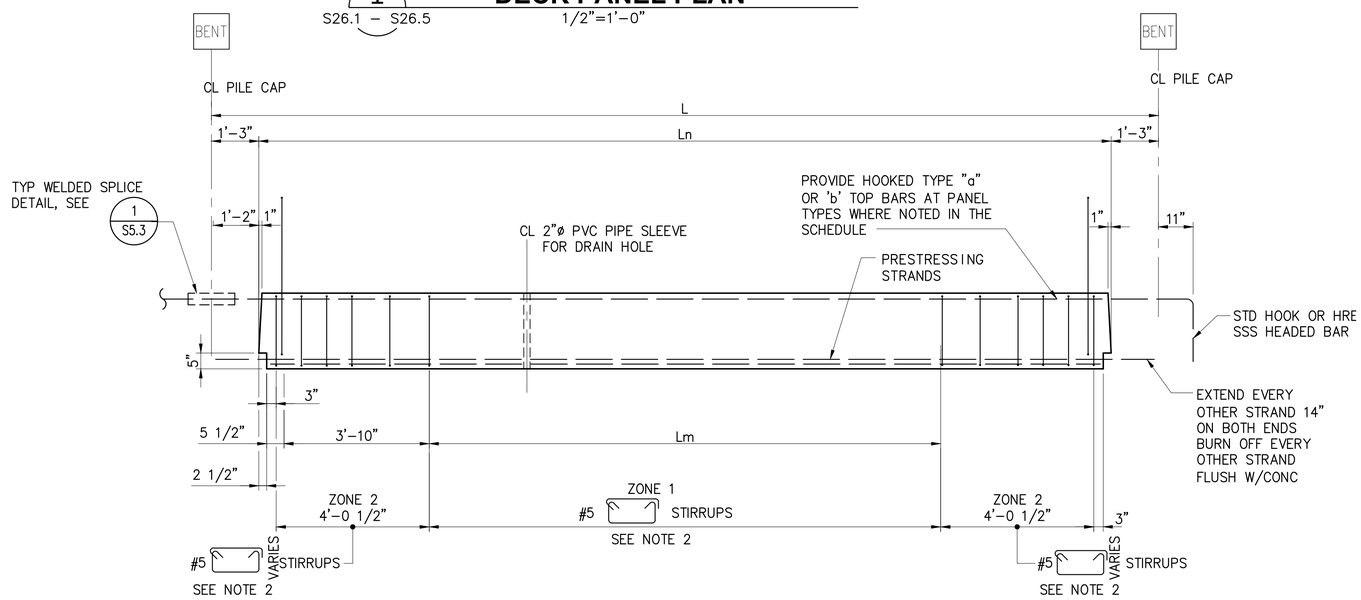
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.8



1 DECK PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION
1"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P1A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

		DATE
DESIGNED BY:	SEK	
DRAWN BY:	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE

APPROVED:

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 9

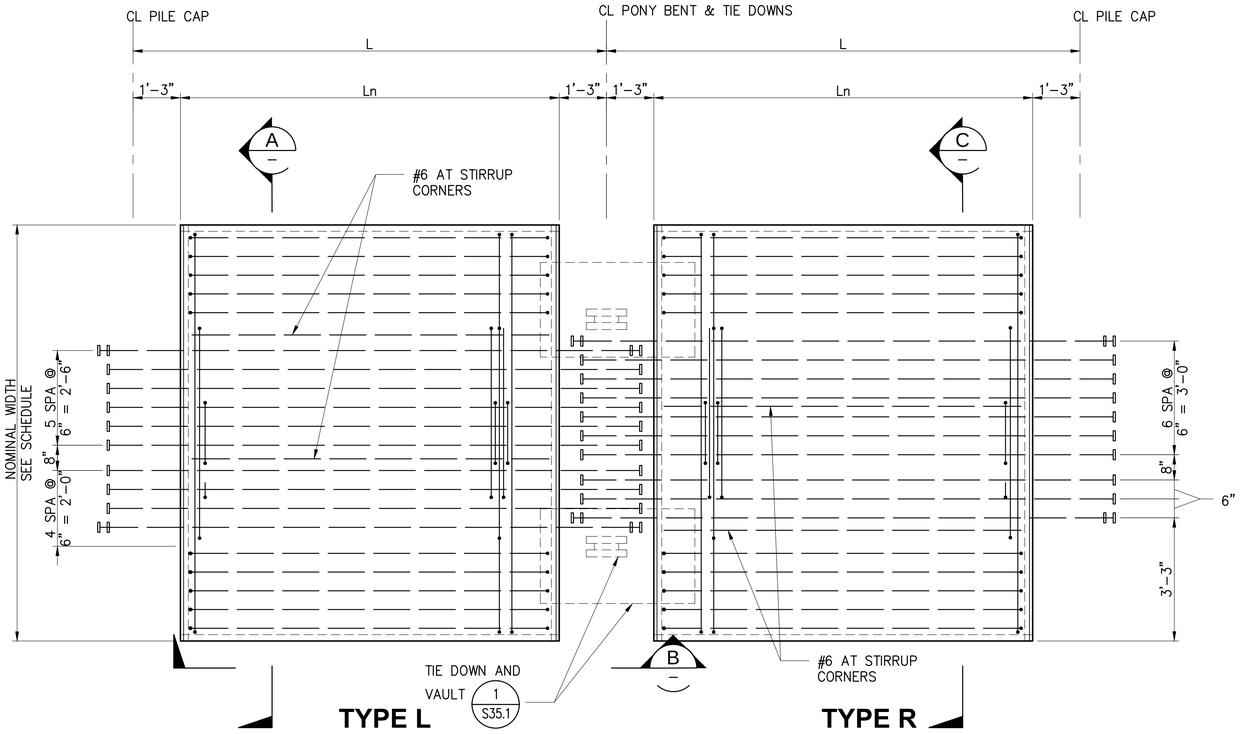
CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.9
SH 302 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

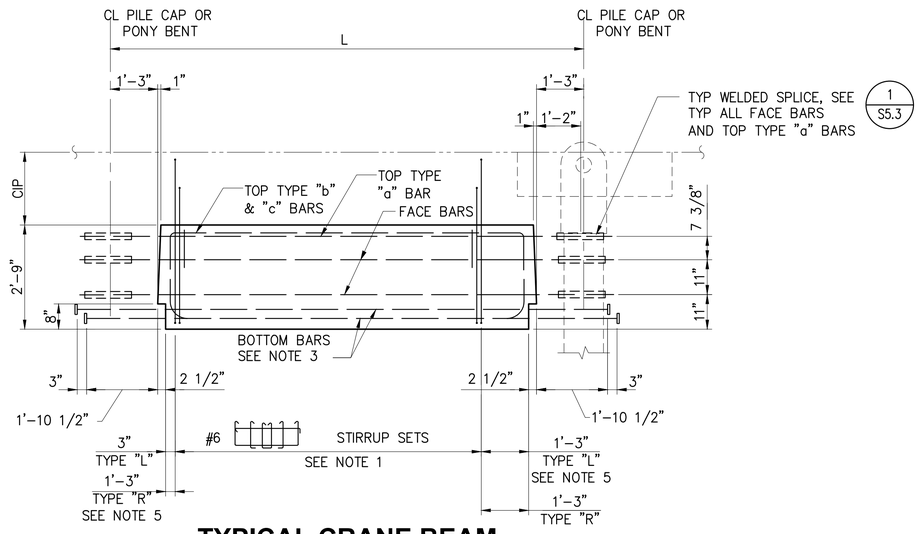
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.9



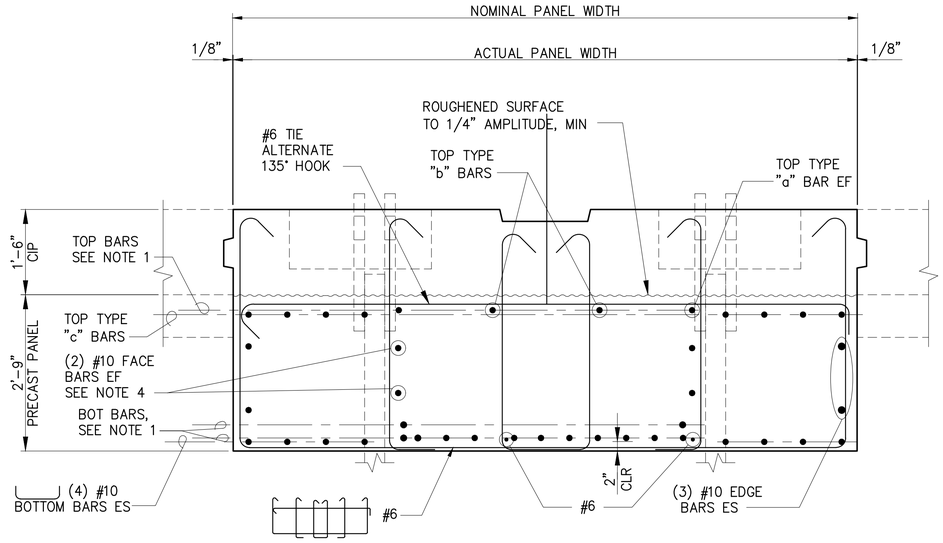
TYPE L **TYPE R**

NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

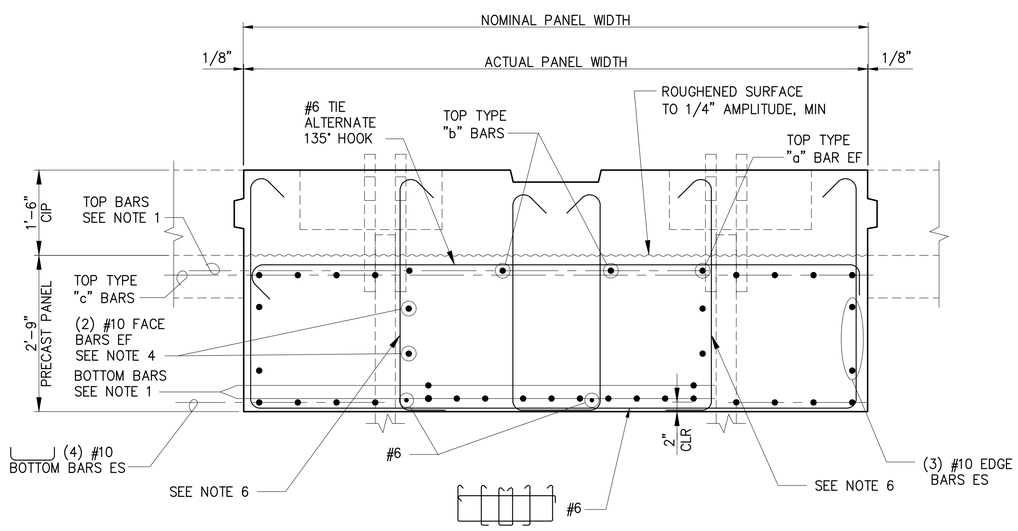
CRANE BEAM - P8F
1 TYPE "L" & "R" PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



TYPICAL CRANE BEAM PANEL ELEVATION
B – 1/2"=1'-0"



TYPICAL LANDSIDE CRANE BEAM PANEL TYPE "L" P8F
A – 3/4"=1'-0"



TYPICAL LANDSIDE CRANE BEAM PANEL TYPE "R" P8F
C – 3/4"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P8F
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
5. PROVIDE DOUBLE STIRRUP SET AT THIS END
6. (2) STIRRUPS AT EDGE OF PANEL CUT OFF AT BENTS 18–18.5, 28–28.5, 35–35.5, 46–46.5, 53–53.5, 59–59.5, AND 66–66.5.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
tlemons		Jul 20, 2018	

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 10

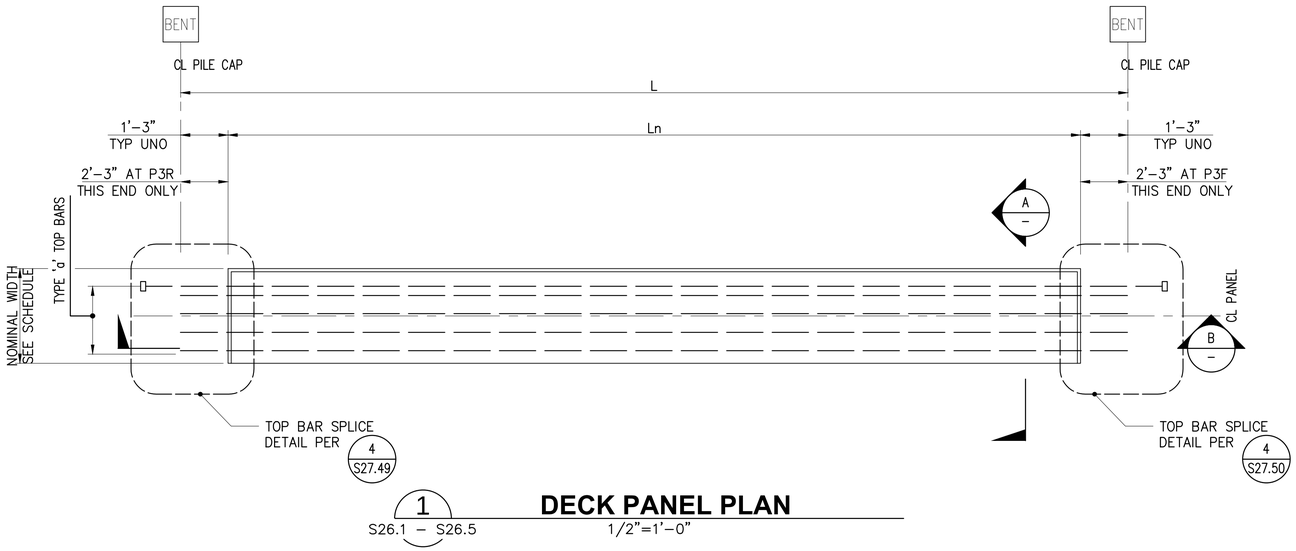
CONT/CONS:	0701136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

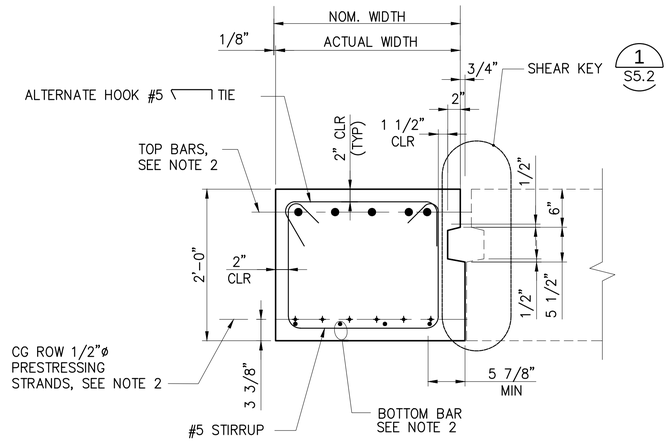
6552
S27.10
SH 303 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

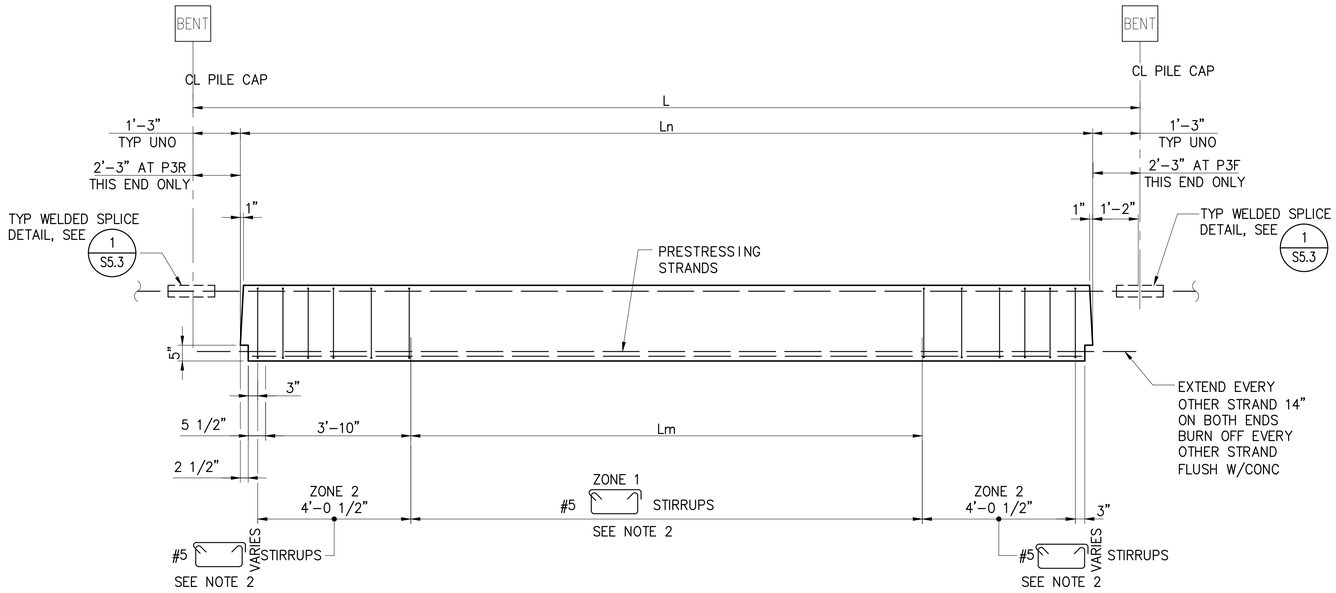
BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.10



1 S26.1 – S26.5 **DECK PANEL PLAN** 1/2"=1'-0"



A – **DECK PANEL SECTION** 1"=1'-0"



B – **DECK PANEL ELEVATION** 1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P3F, P3R, & P3S
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

		SEK	
		CHECKED BY	DATE
		TAH	
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 11

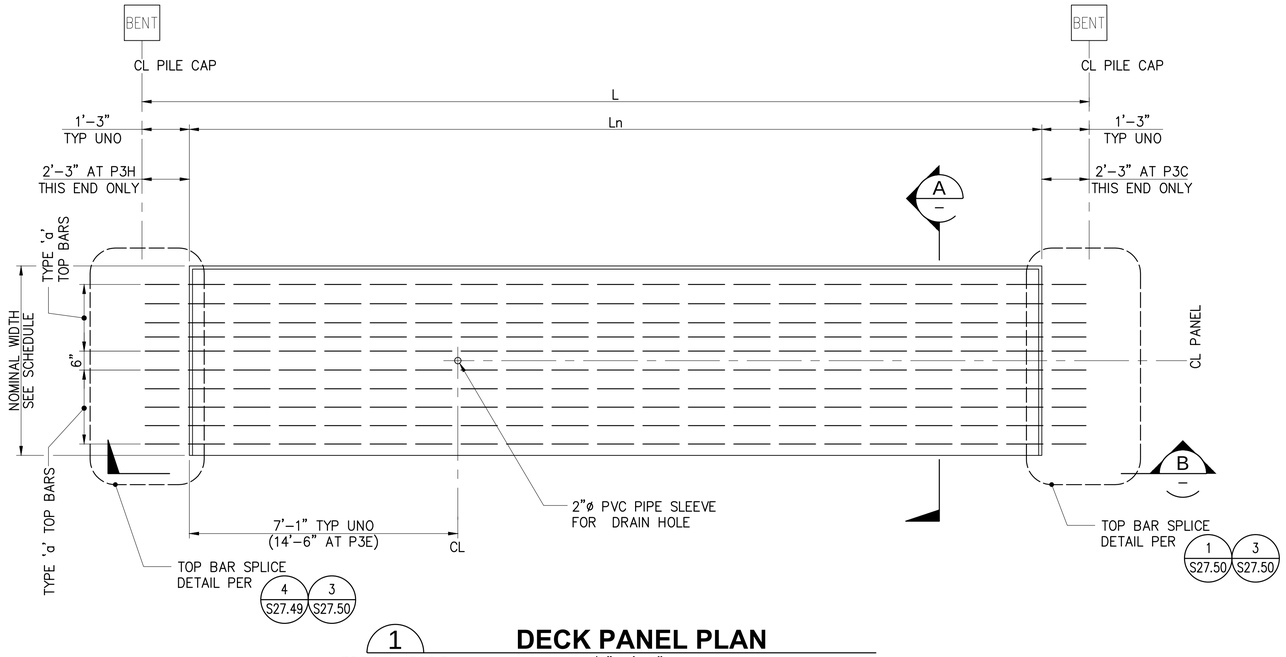
6552
S27.11
SH 304 OF 499

CONT/CONS:	0701136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION:	27		

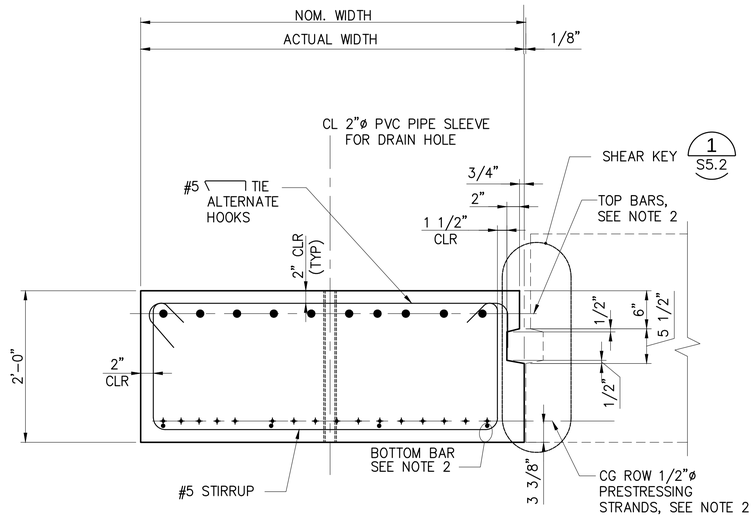
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

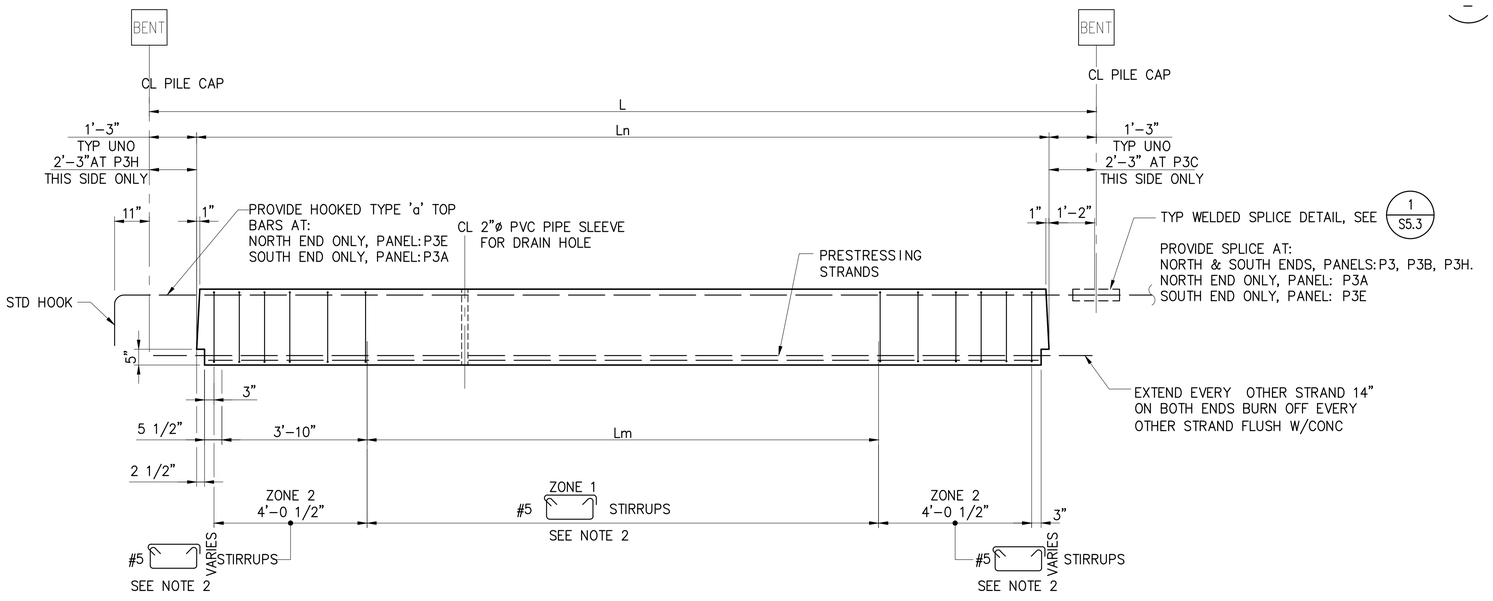
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.11



1 DECK PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION
1"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P3, P3A, P3B, P3C, P3E, & P3H
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.12

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tiemons Jul 20, 2018 PRINTED BY:
ONE SITCUM PLAZA TACOMA, WA 98401-1837

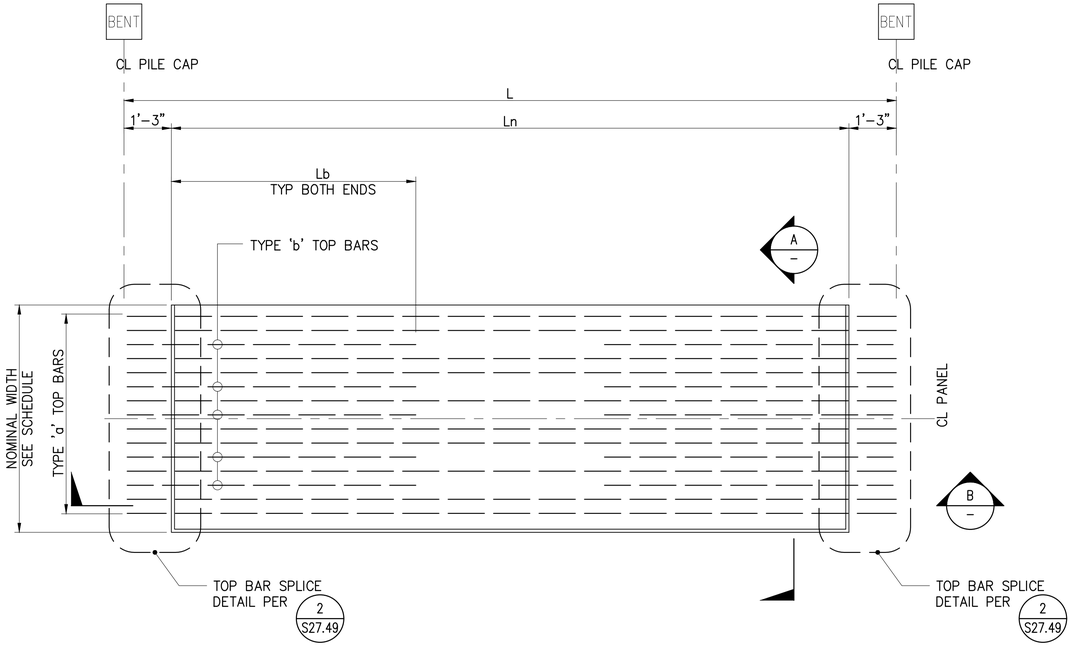
APPROVED:
DIRECTOR ENG. DATE

PIER 4 PHASE 2 RECONFIGURATION
DECK PANEL DETAILS - SHEET 12

6552
S27.12
SH 305 OF 499

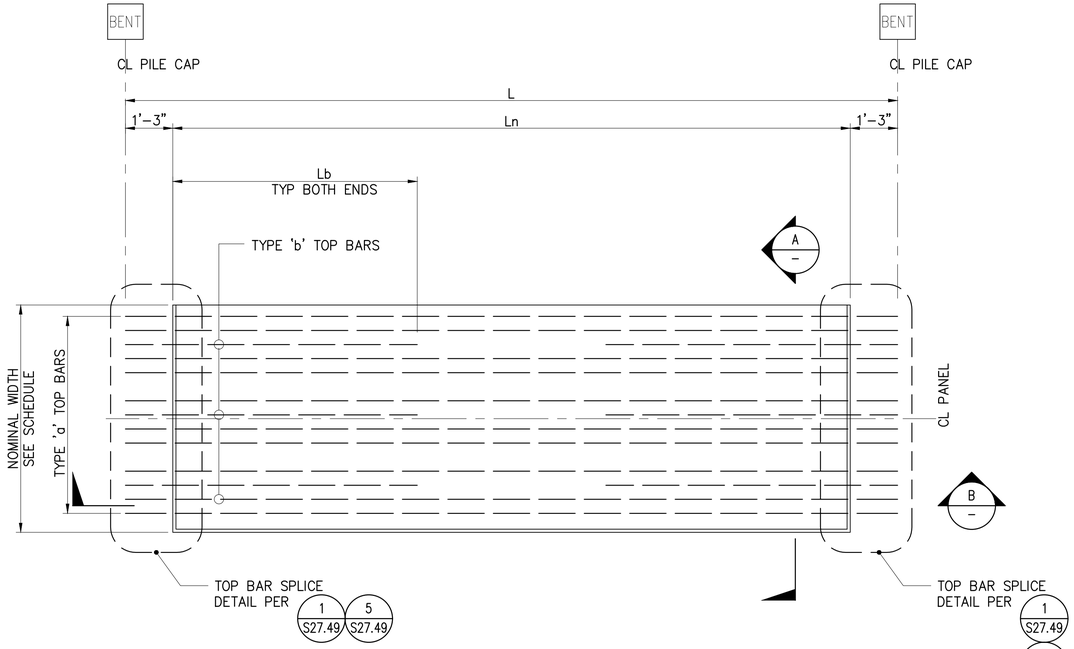
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



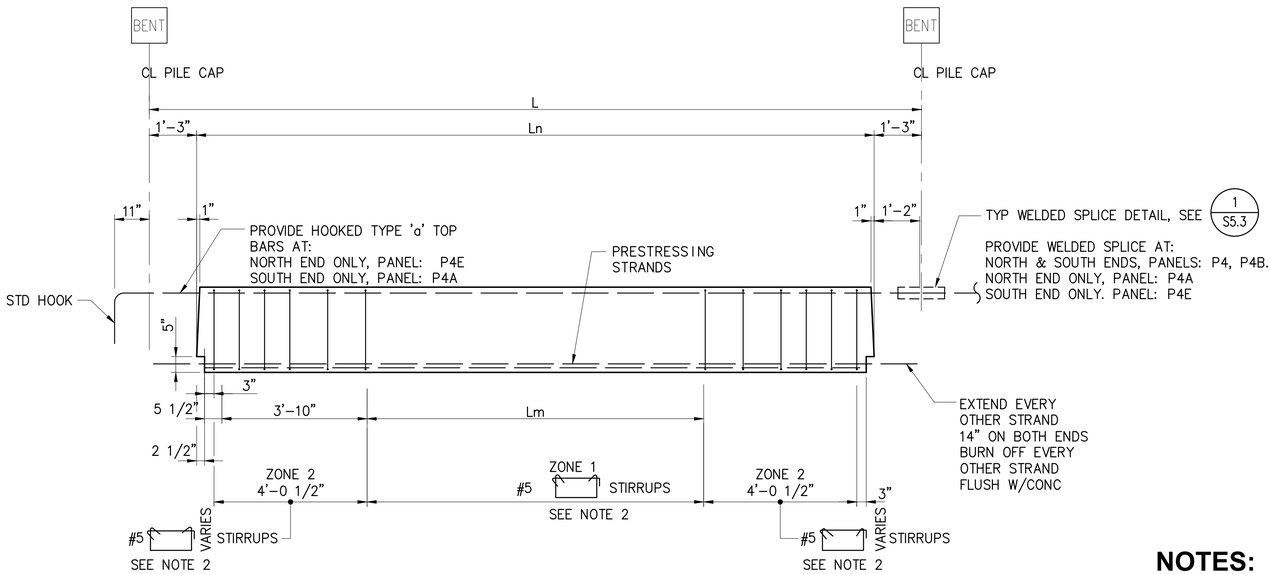
1 DECK PANEL PLAN - PANELS: P4, P4A, P4E

S26.1 – S26.5 1/2"=1'-0"



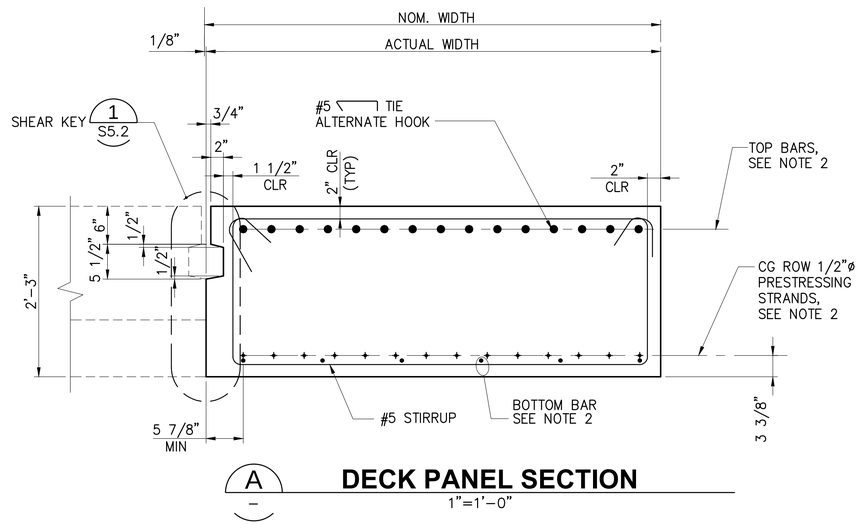
2 DECK PANEL PLAN - PANEL: P4B

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"



A DECK PANEL SECTION

1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P4, P4A, P4E, P4B
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 13

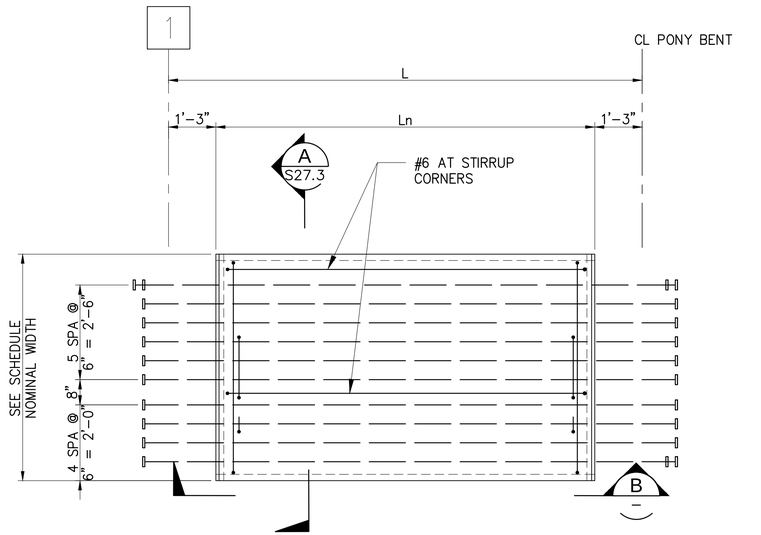
6552
S27.13
SH 306 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\CurrentPhase 2_091251\091251-S27.13

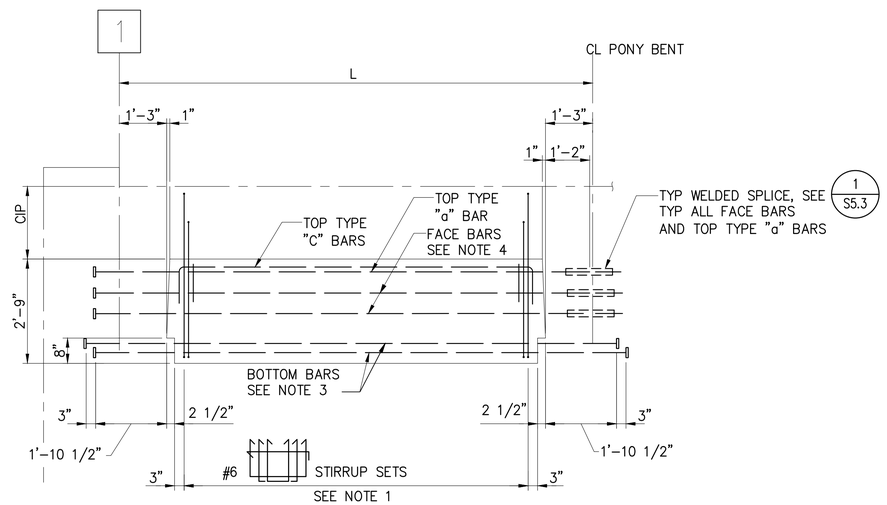


TYPE L

NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

CRANE BEAM TYPE "L" PANEL P8E PLAN

1 / S26.1 – S26.5 — 1/2"=1'-0"



TYPICAL CRANE BEAM PANEL ELEVATION

B / – — 1/2"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR DECK PANEL TYPES P8E
3. PROVIDE HEADER REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMNT FOR ALL FACE BARS. FOR PANEL P2E PROVIDE HEADED REINFORCEMENT W/ BEAMS AT BENT 1

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.14

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

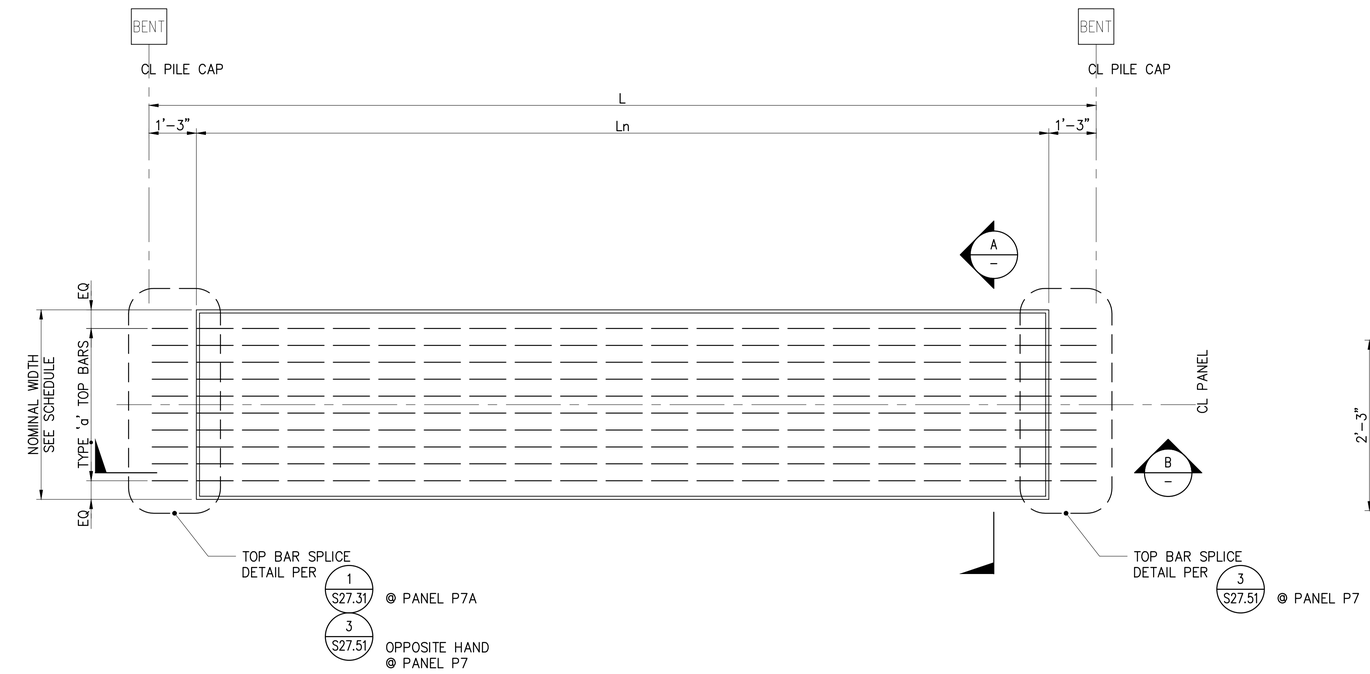
DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 14

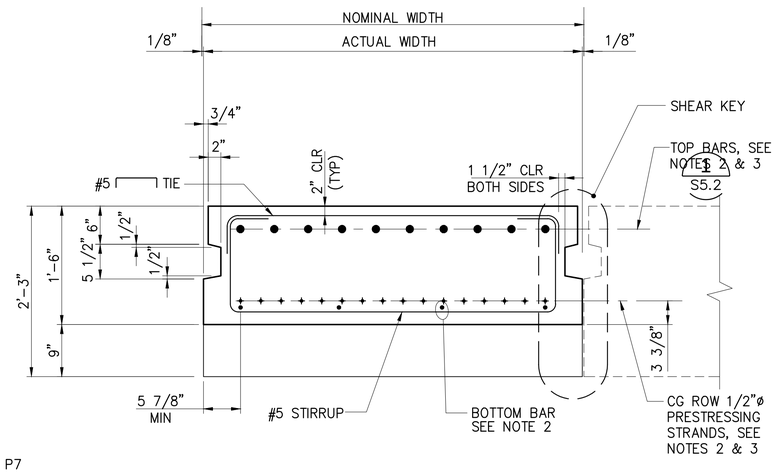
6552
S27.14
SH 307 OF 499

	SEK		
	CHECKED BY DATE		
	TAH		
PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

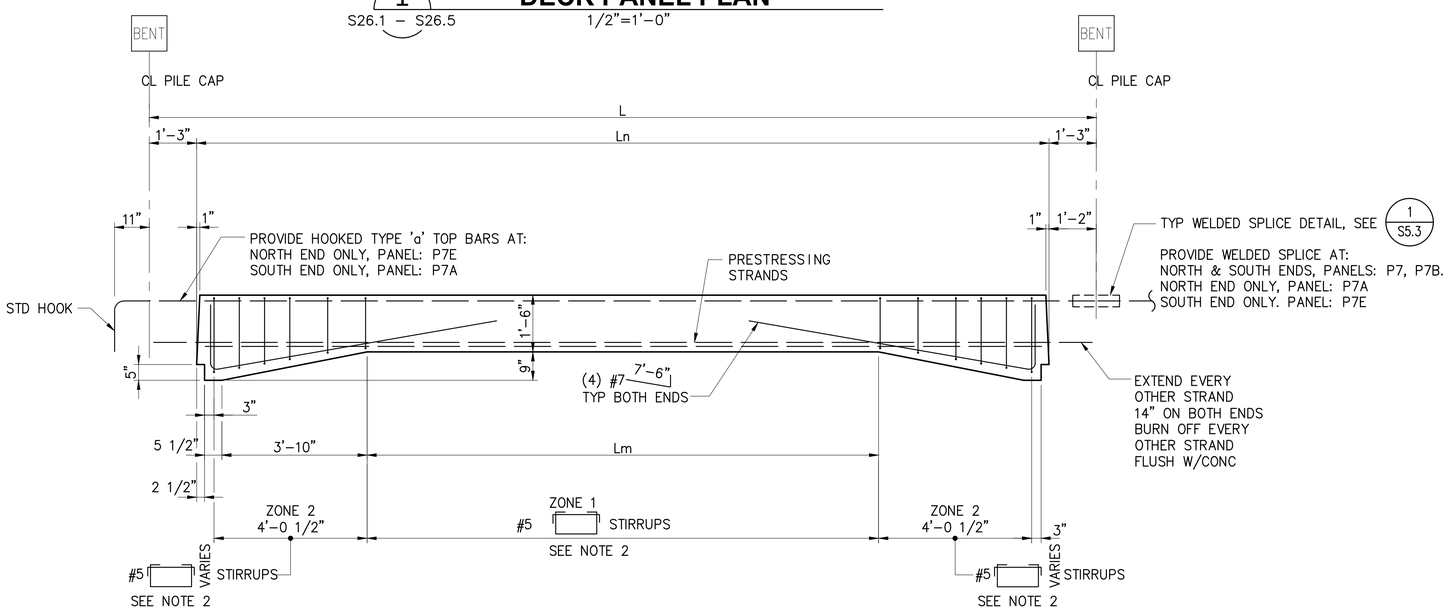
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 DECK PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION
1"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P7, P7A, P7B, P7E
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. STRANDS (BARS) SHOWN ON THIS DETAIL ARE SCHEMATIC, ACTUAL # OF STRANDS (BARS) SHALL BE ADJUSTED AS SHOWN ON SCHEDULE S26.1–S26.5. STRANDS (BARS) SHALL BE EQUALLY SPACED.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 * Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 15

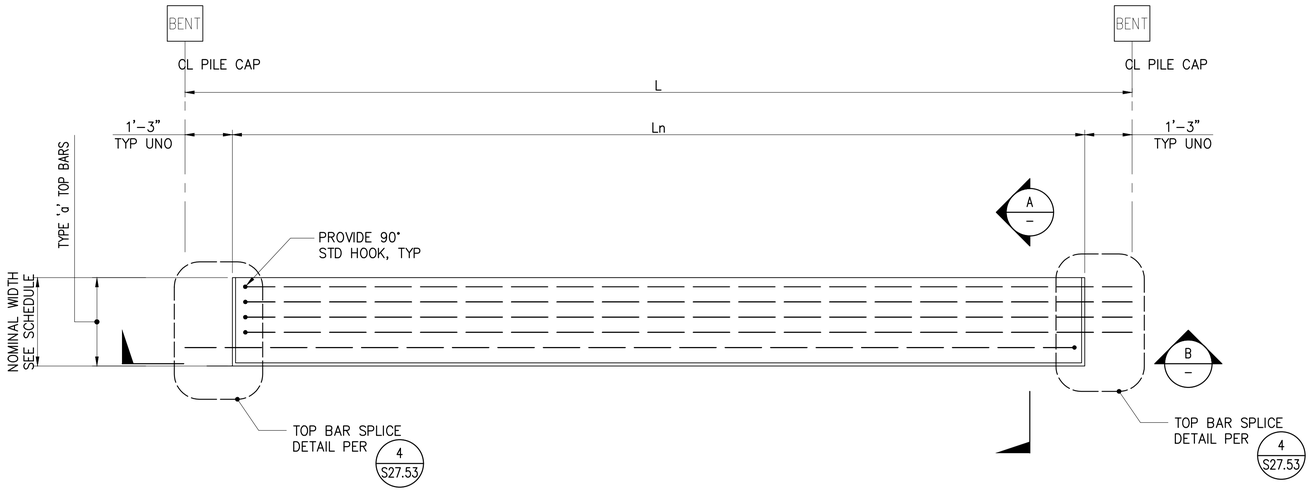
SEK CHECKED BY DATE			
TAH PROJ. ENGR DATE	PRINTED BY: tlemos Jul 20, 2018		
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39 @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	
CONT/CONS: 070136			
M. ID: 091251			
PHASE: CONFORMED			

6552
S27.15
SH 308 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

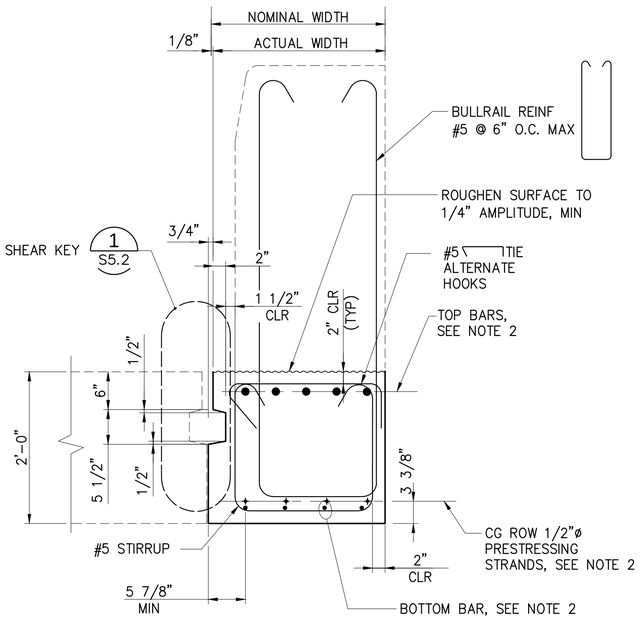
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.15



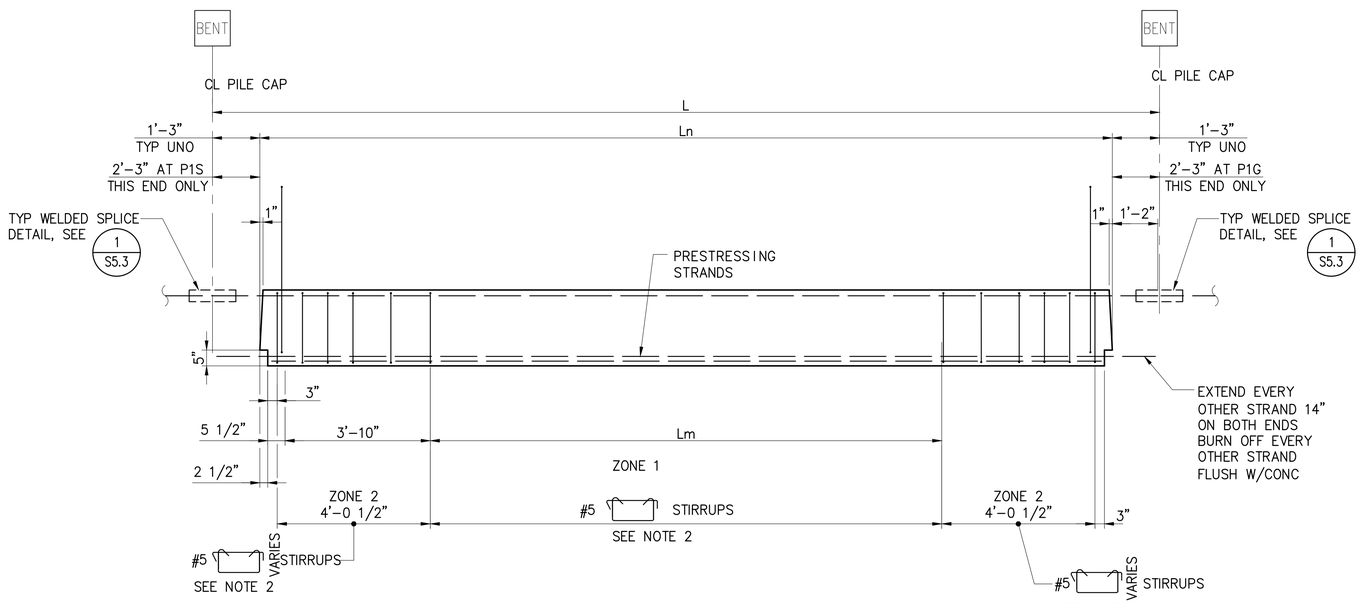
1 DECK PANEL PLAN - PANEL: P1F

S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION

1"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P1F, P1G, P1S, P1W, P1P
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

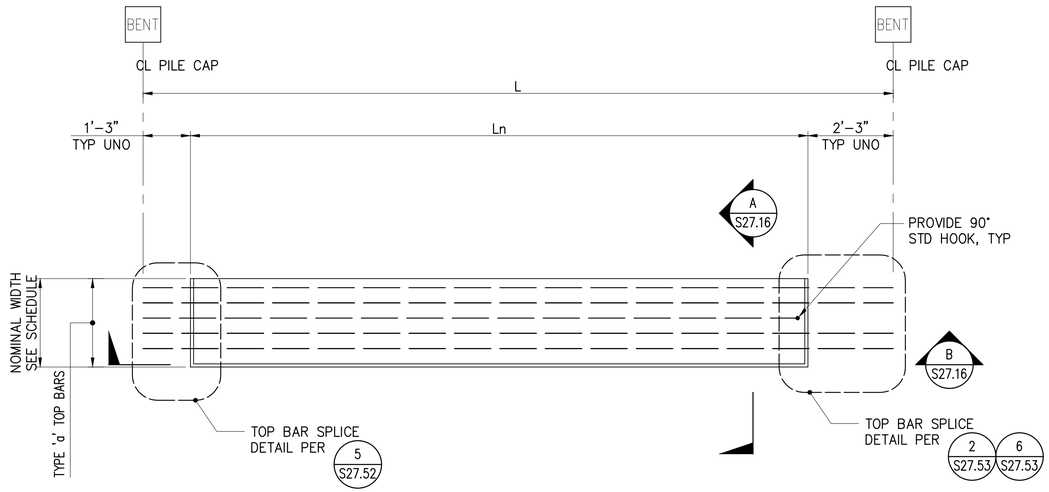
PIER 4 PHASE 2 RECONFIGURATION
DECK PANEL DETAILS - SHEET 16

6552
S27.16
SH 309 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

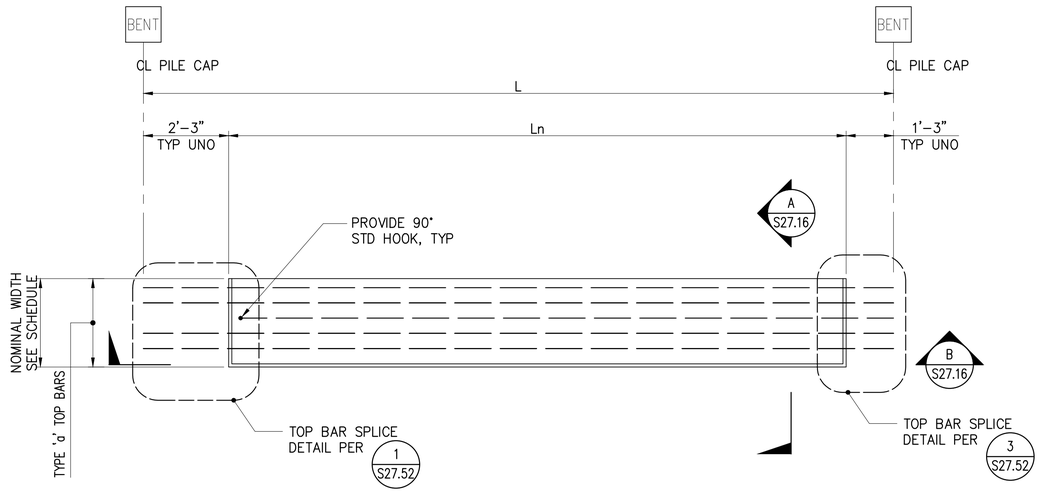
BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S27.16
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



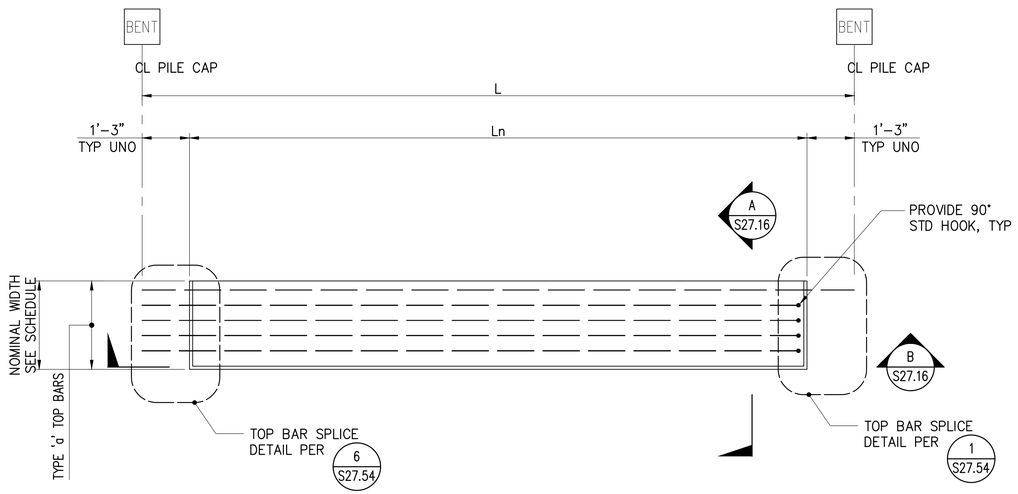
1 DECK PANEL PLAN - PANEL: P1G

S26.1 – S26.5 1/2"=1'-0"



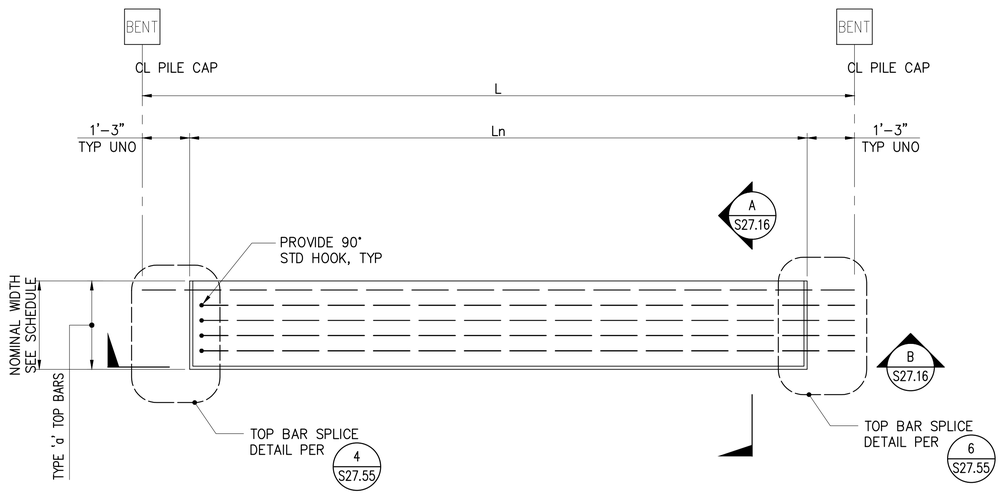
2 DECK PANEL PLAN - PANEL: P1S

S26.1 – S26.5 1/2"=1'-0"



3 DECK PANEL PLAN - PANEL: P1W

S26.1 – S26.5 1/2"=1'-0"



4 DECK PANEL PLAN - PANEL: P1P

S26.1 – S26.5 1/2"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
tlemons Jul 20, 2018			
ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 16A

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

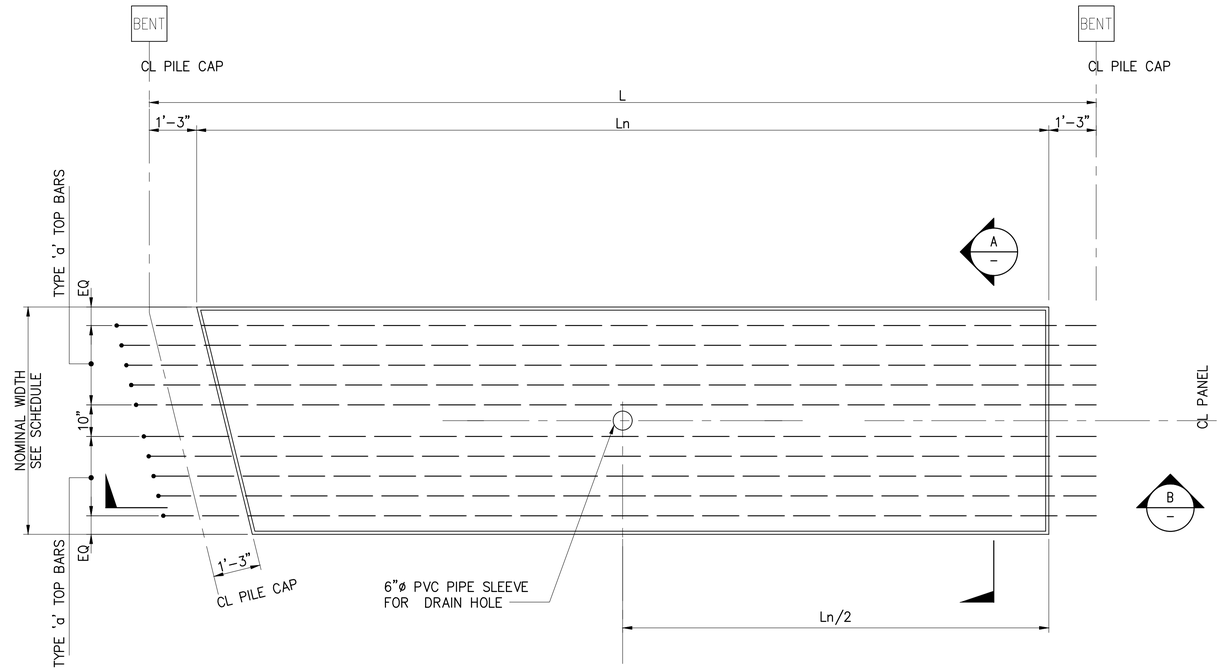
6552
S27.16A
SH 310 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

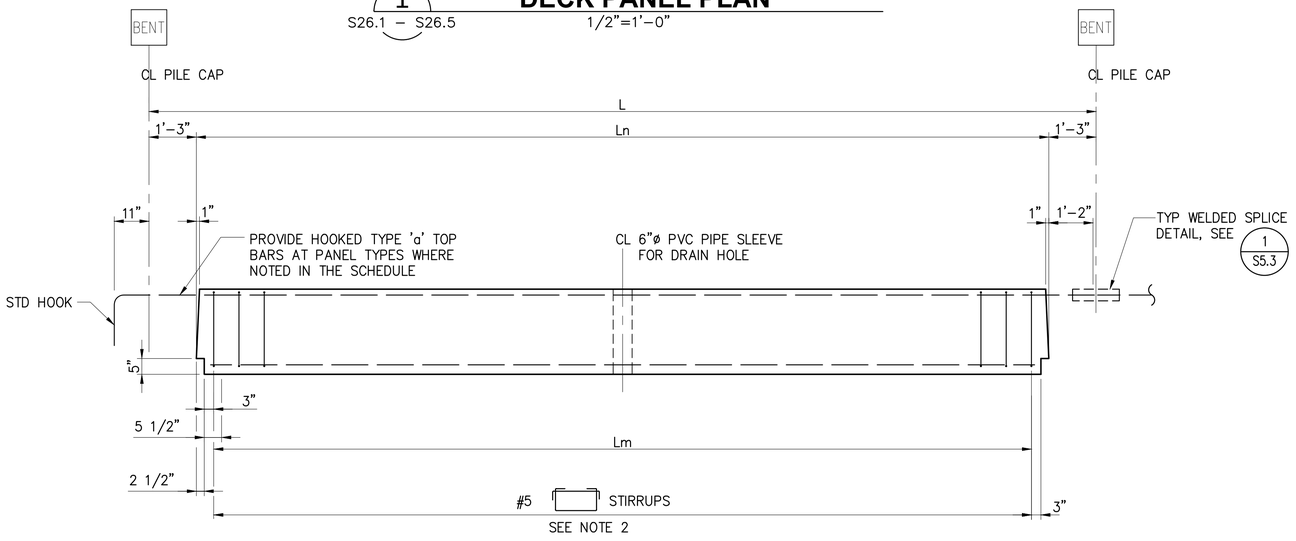
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.16A

BINDING EDGE



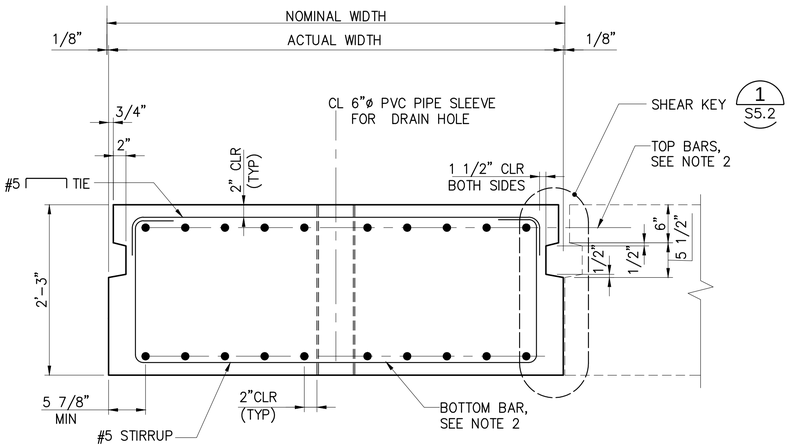
1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

– 1/2"=1'-0"



A DECK PANEL SECTION

– 1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P14, P15, P16, P17
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 * Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

		DATE
DESIGNED BY:	SEK	
DRAWN BY:	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE
APPROVED:	PRINTED BY: tlemons Jul 20, 2018	
	PORT ADDRESS: ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 17

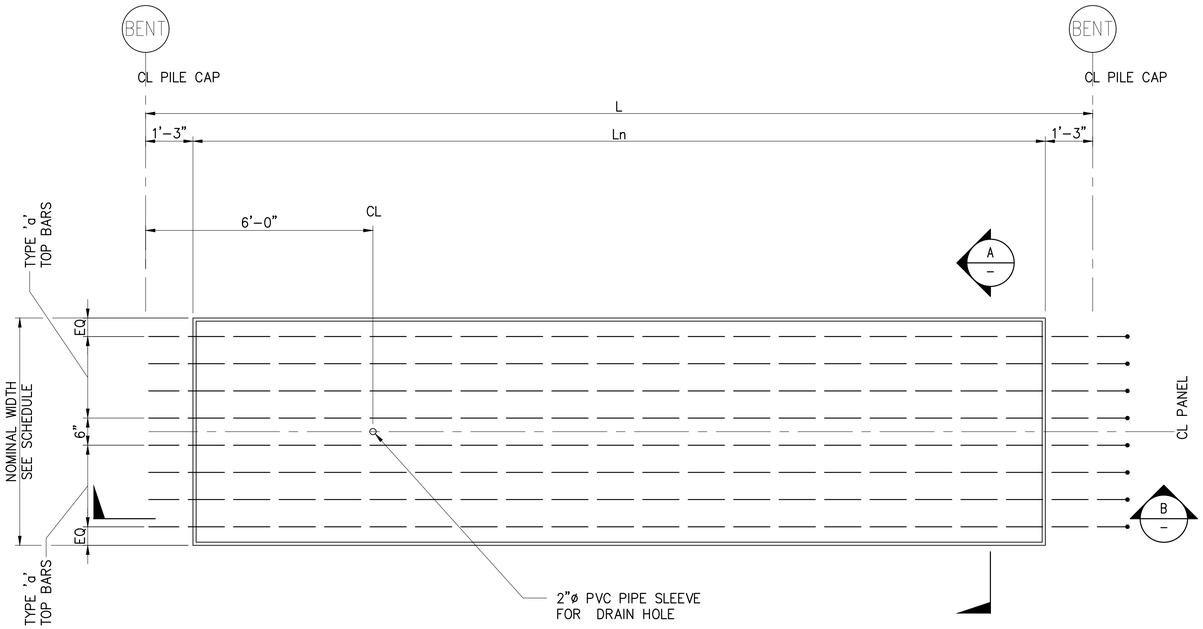
CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S27.17
SH 311 OF 499

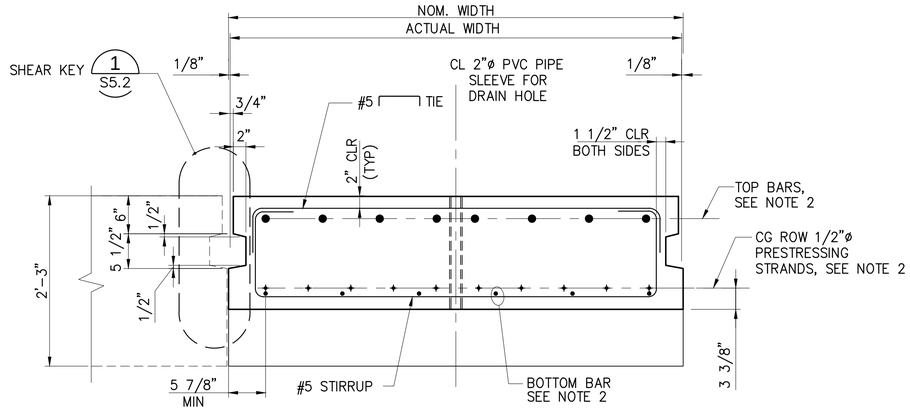
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.17

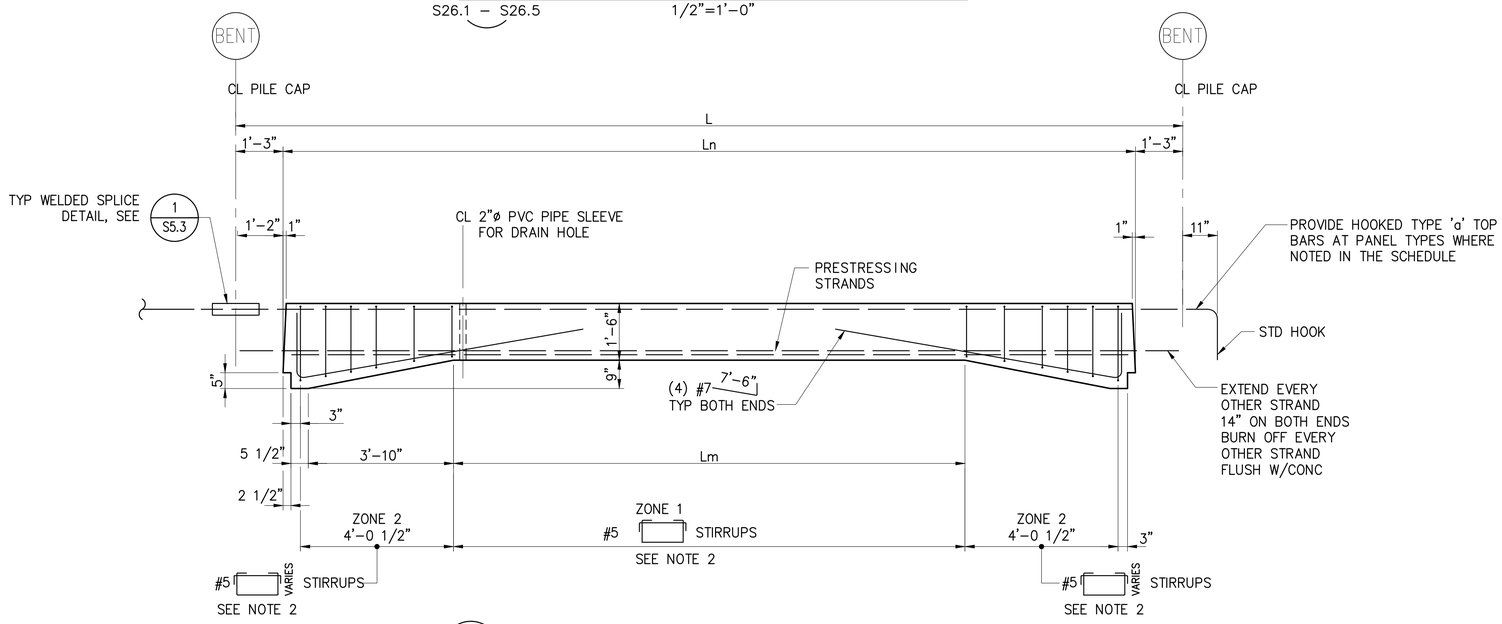
BINDING EDGE



1 DECK PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION
1"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPE: P21
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons	Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA		
TACOMA, WA	98401-1837		

APPROVED:

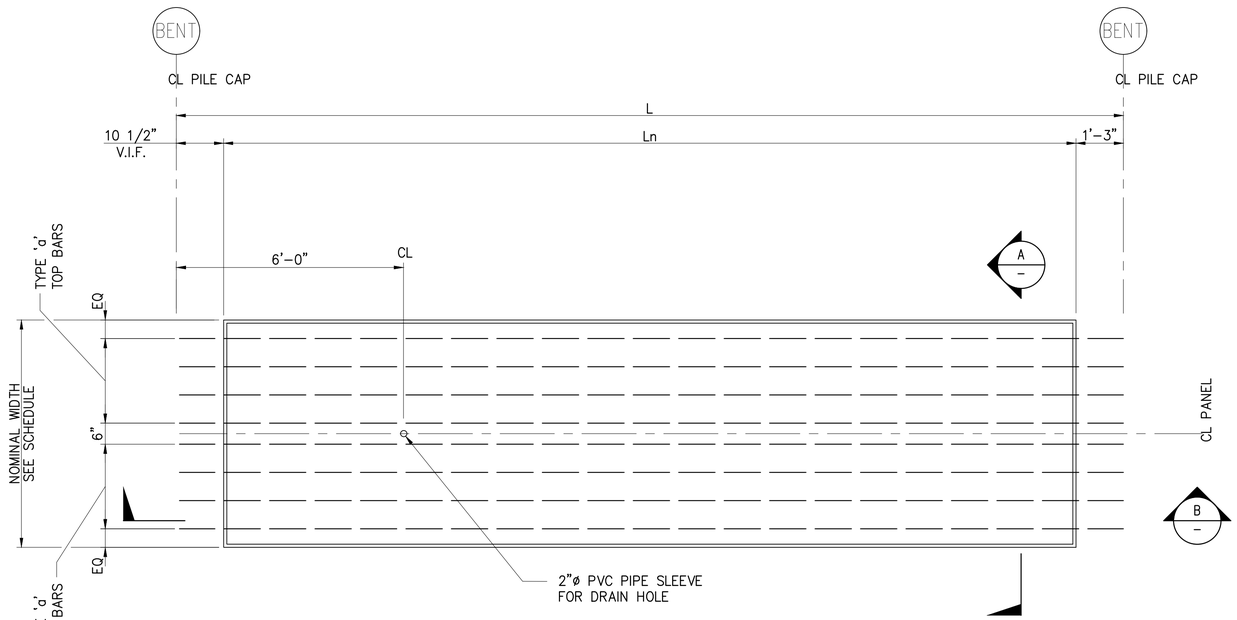
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 18

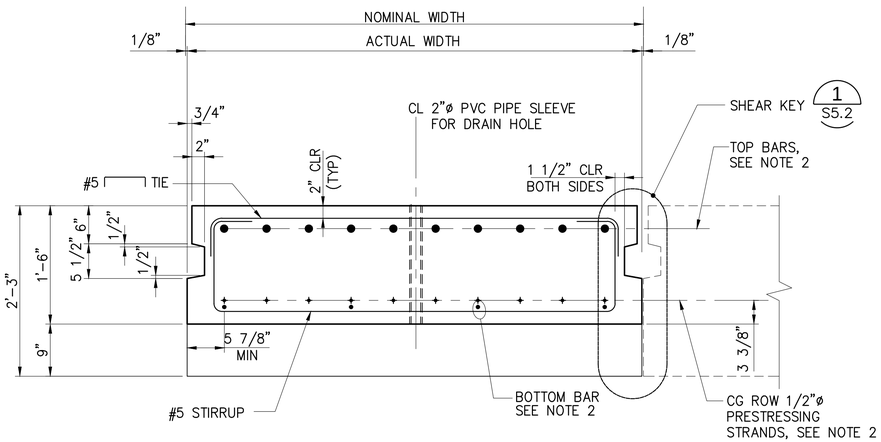
6552			
S27.18			
SH 312 OF 499			
CONT/CONS:	0701.36	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

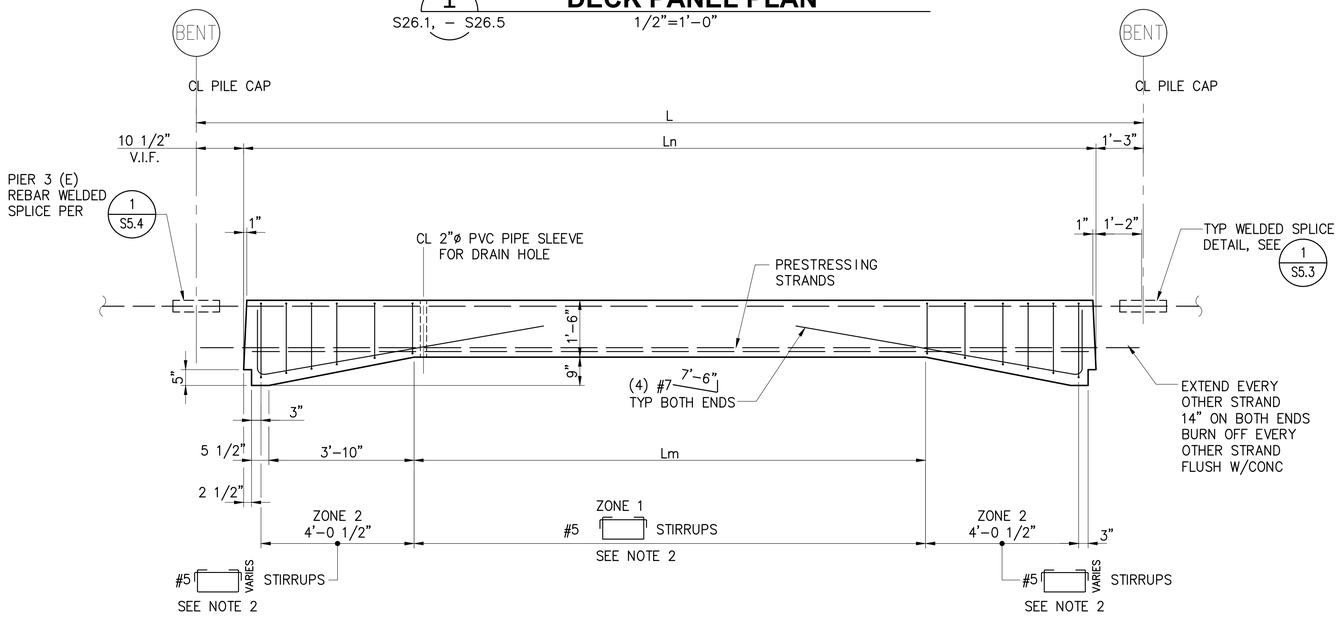
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.18

BINDING EDGE





1 DECK PANEL PLAN
S26.1, – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

A DECK PANEL SECTION
1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P21A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

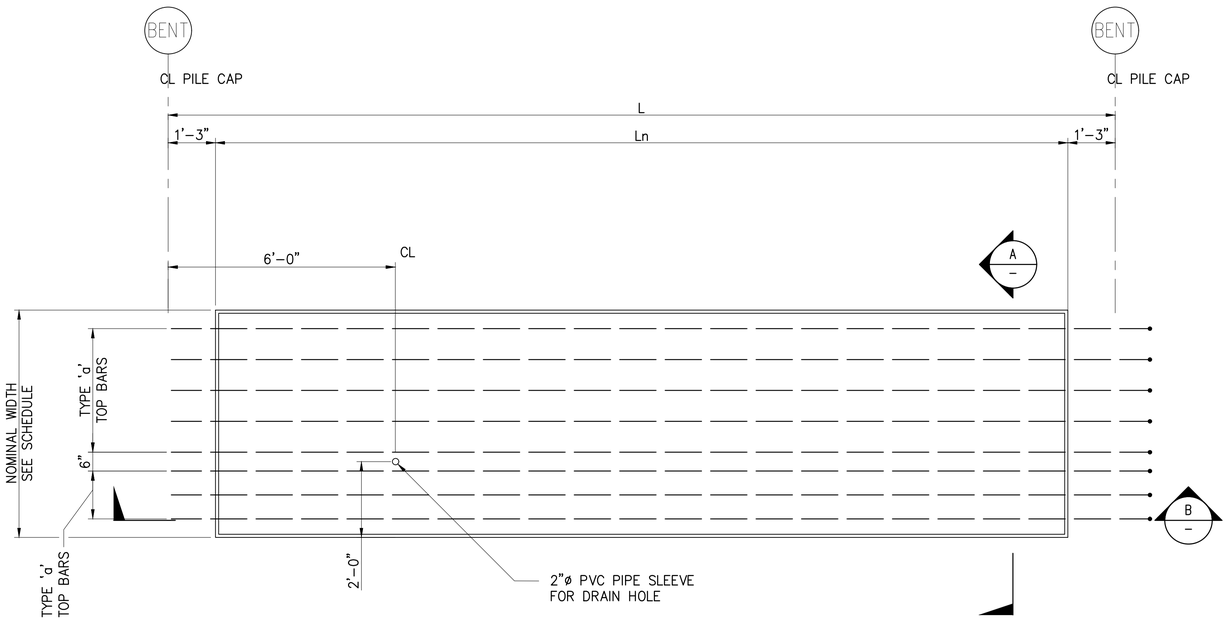
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 19

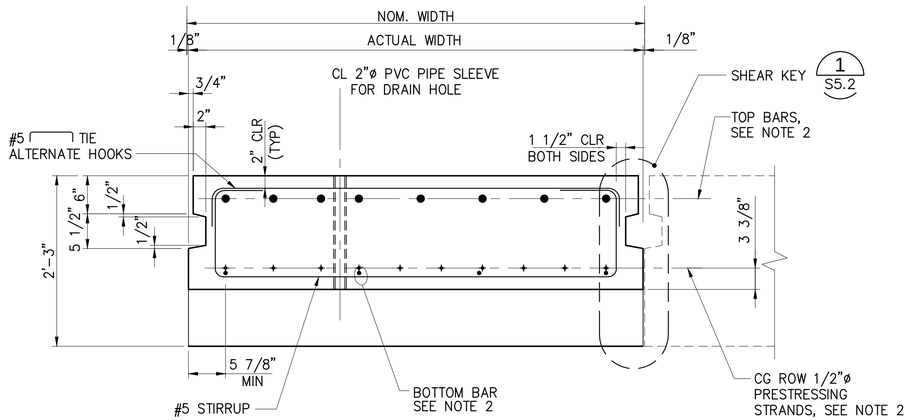
6552
S27.19
SH 313 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

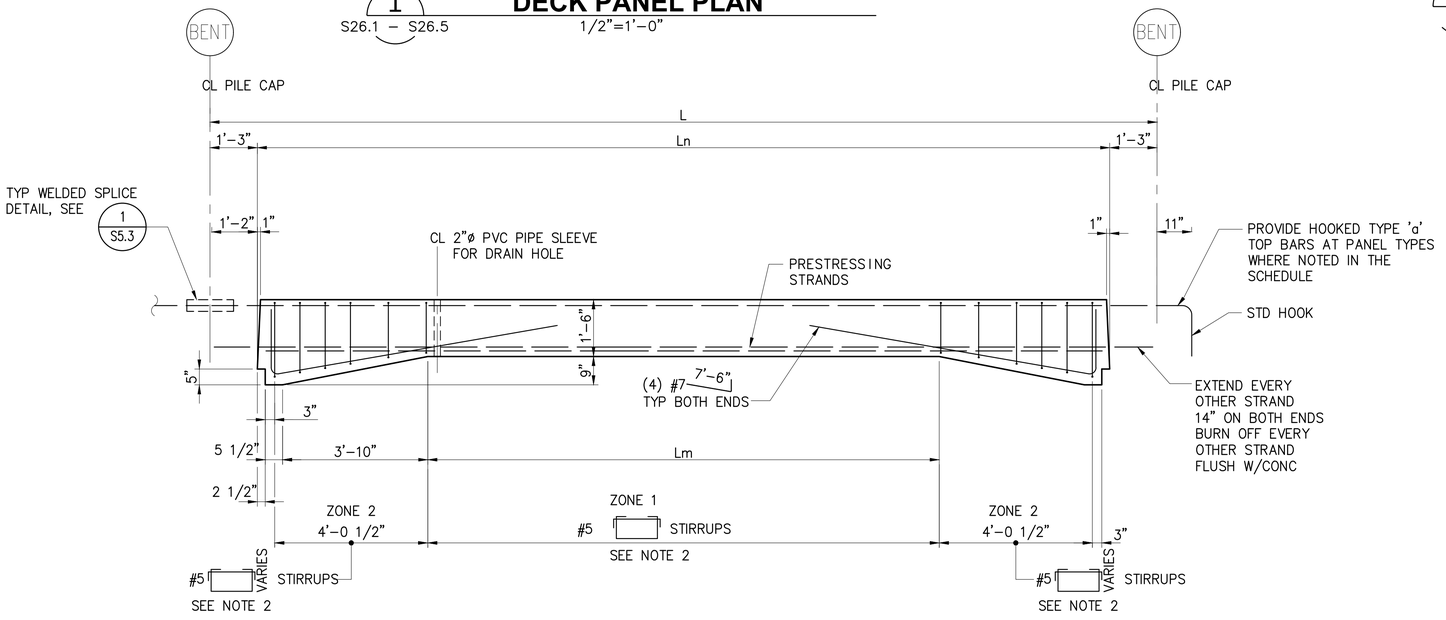
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.19





1 DECK PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

A DECK PANEL SECTION
1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P23
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 20

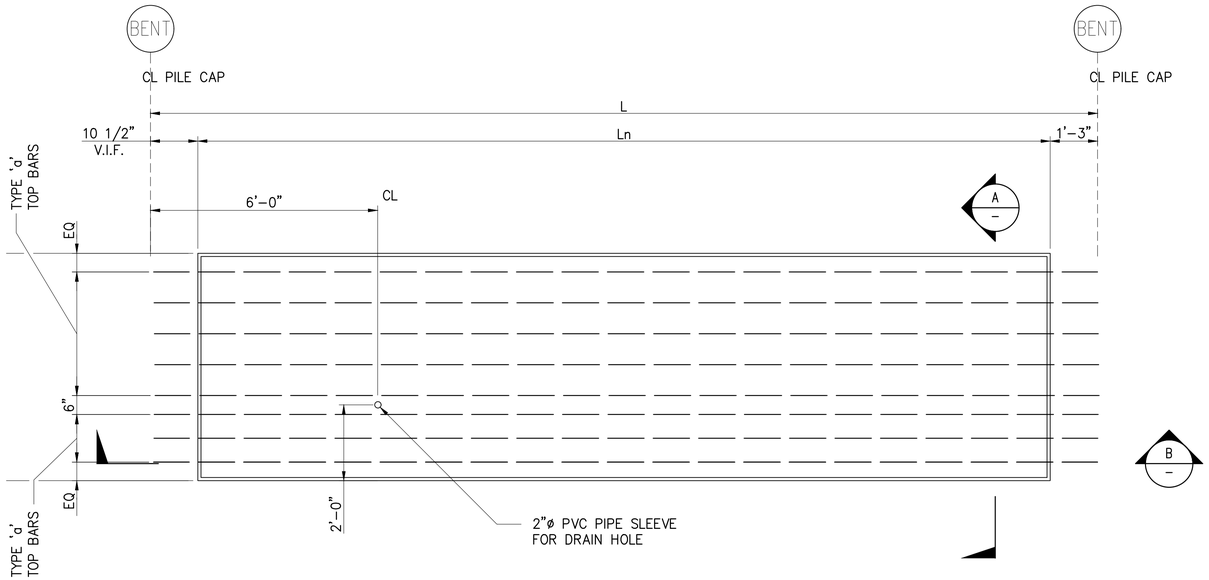
6552
S27.20
SH 314 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

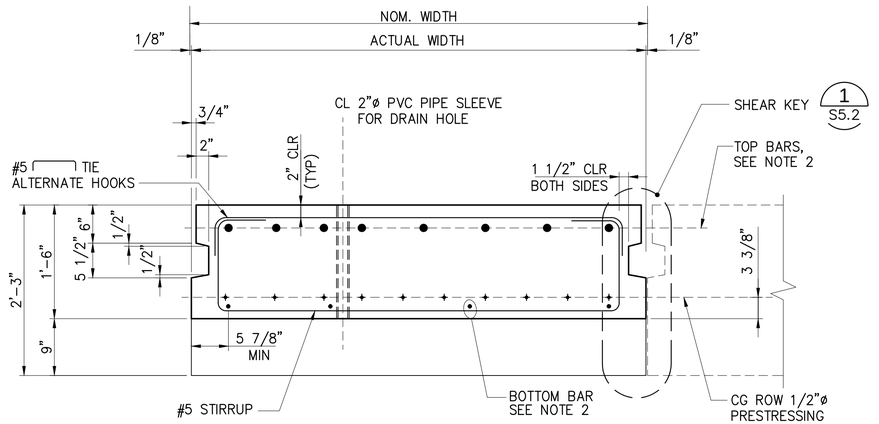
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.20



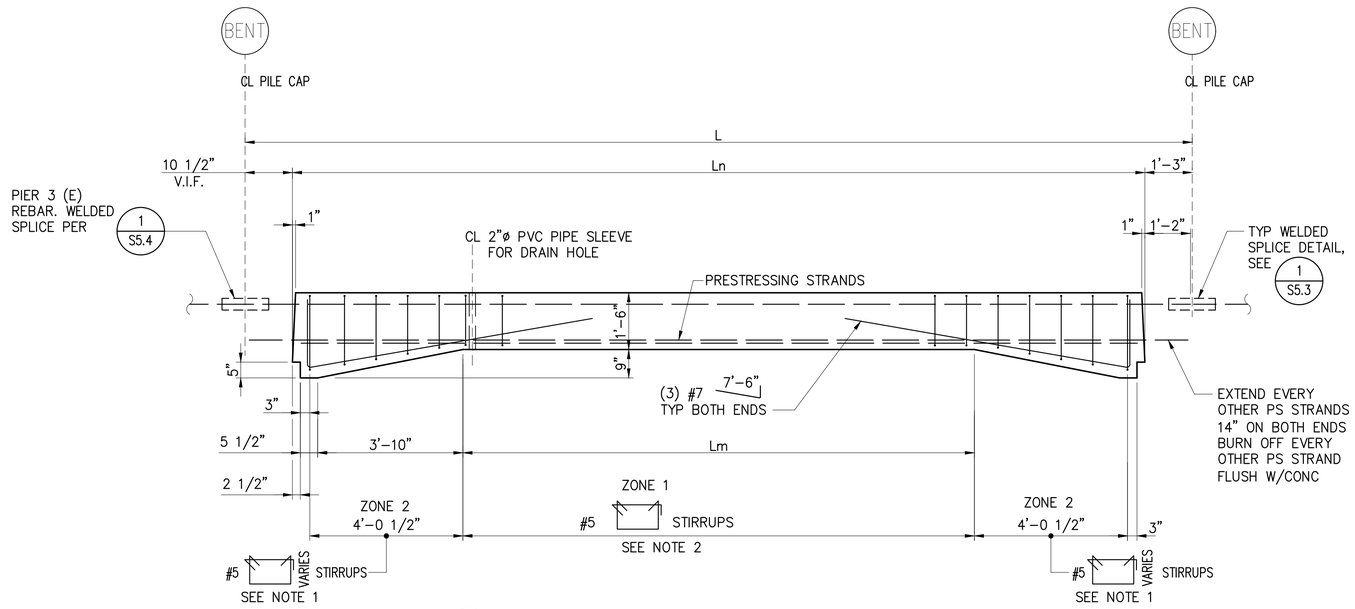
1 S26.1 – S26.5 **DECK PANEL PLAN**

1/2"=1'-0"



A – **DECK PANEL SECTION**

1"=1'-0"



B – **DECK PANEL ELEVATION**

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P23A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE | SEK CHECKED BY DATE | TAH PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 21

6552
S27.21
SH 315 OF 499

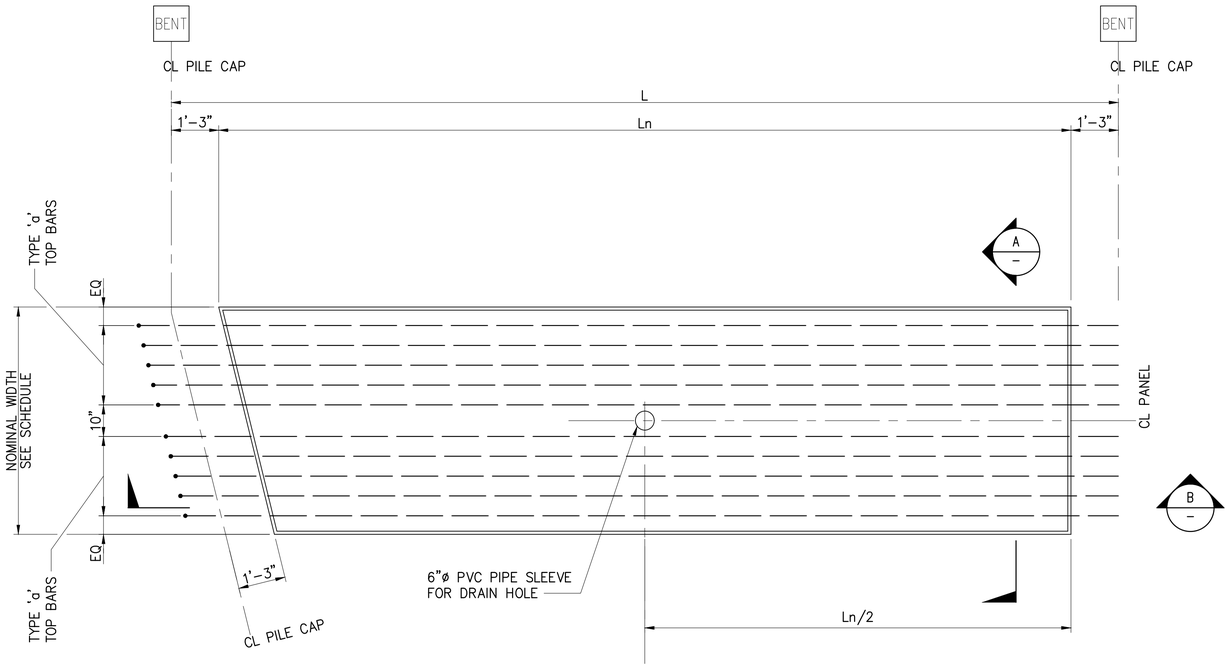
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tiemons Jul 20, 2018
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

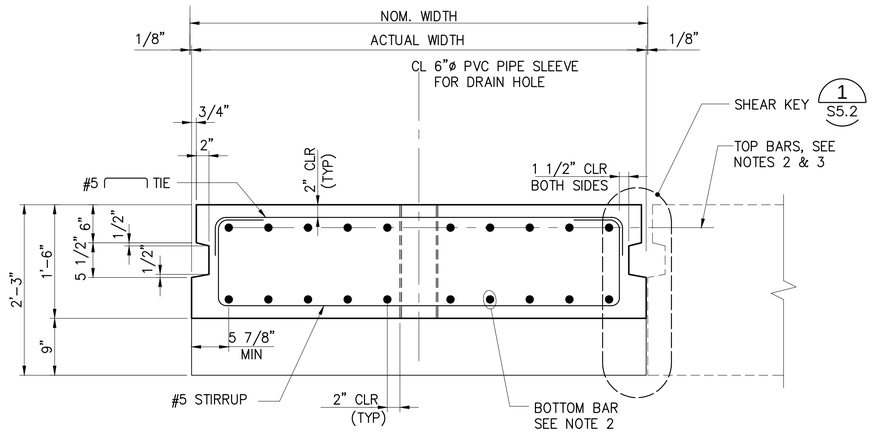
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.21

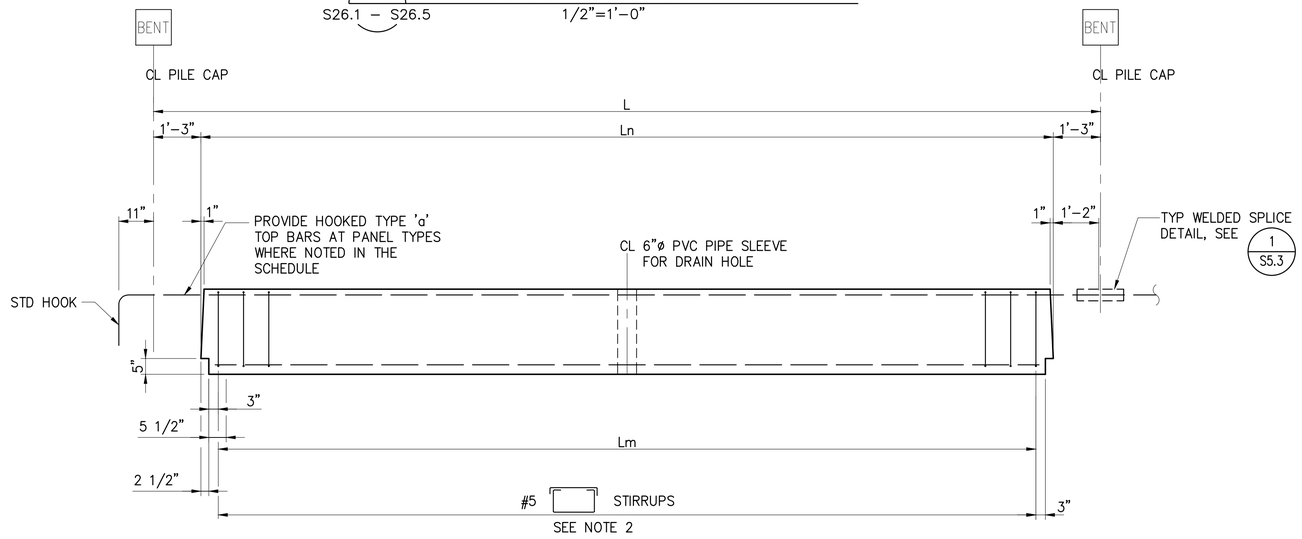
BINDING EDGE





1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

– 1/2"=1'-0"

A DECK PANEL SECTION

– 1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P24 TO P34
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. STRANDS (BARS) SHOWN ON THIS DETAIL ARE SCHEMATIC, ACTUAL # OF STRANDS (BARS) SHALL BE ADJUSTED AS SHOWN ON SCHEDULE S26.1–S26.5. STRANDS (BARS) SHALL BE EQUALLY SPACED.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
tlemons	Jul 20, 2018		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 22

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S27.22
SH 316 OF 499

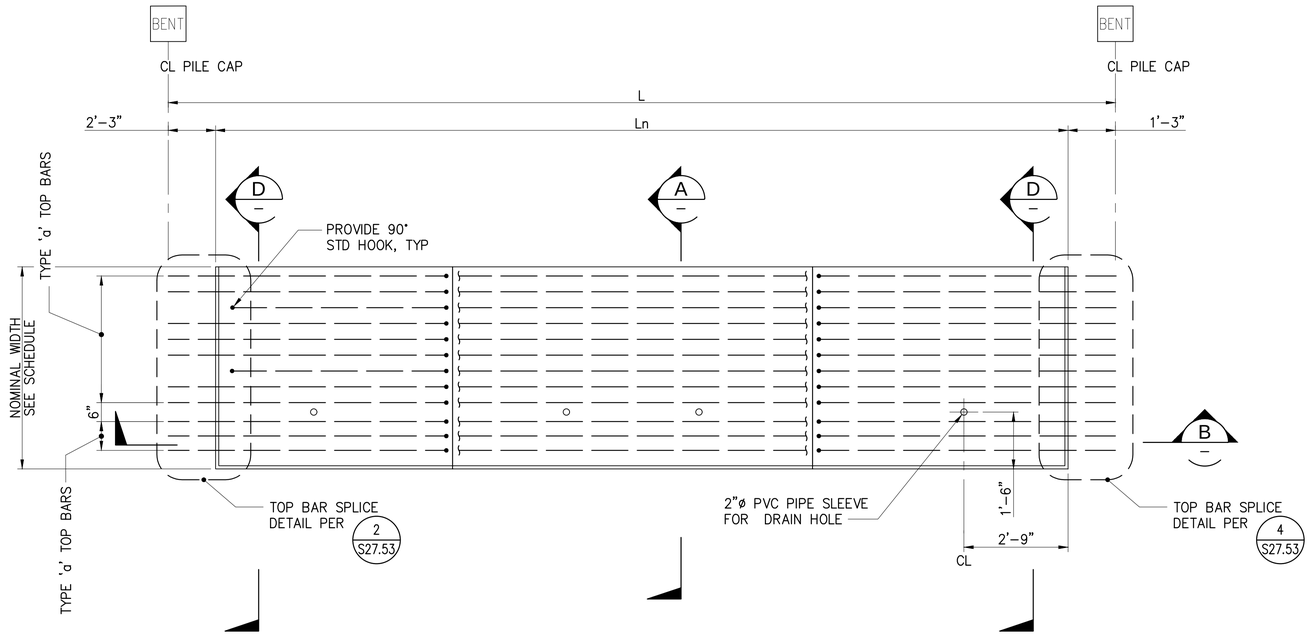
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.22

BINDING EDGE

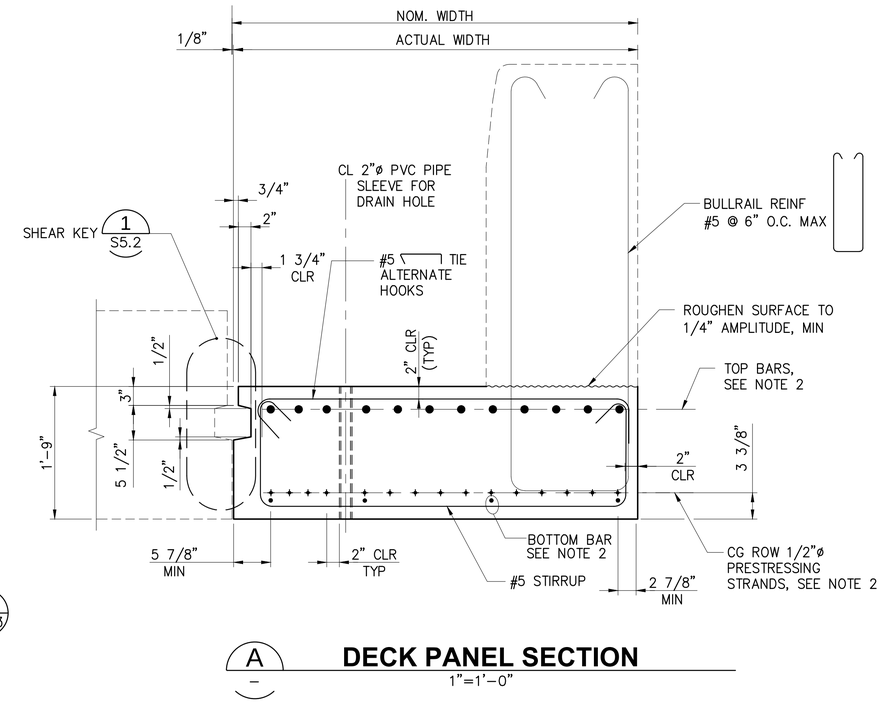
NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P1D, P1H, P1N
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5



B – DECK PANEL ELEVATION

1/2"=1'–0"

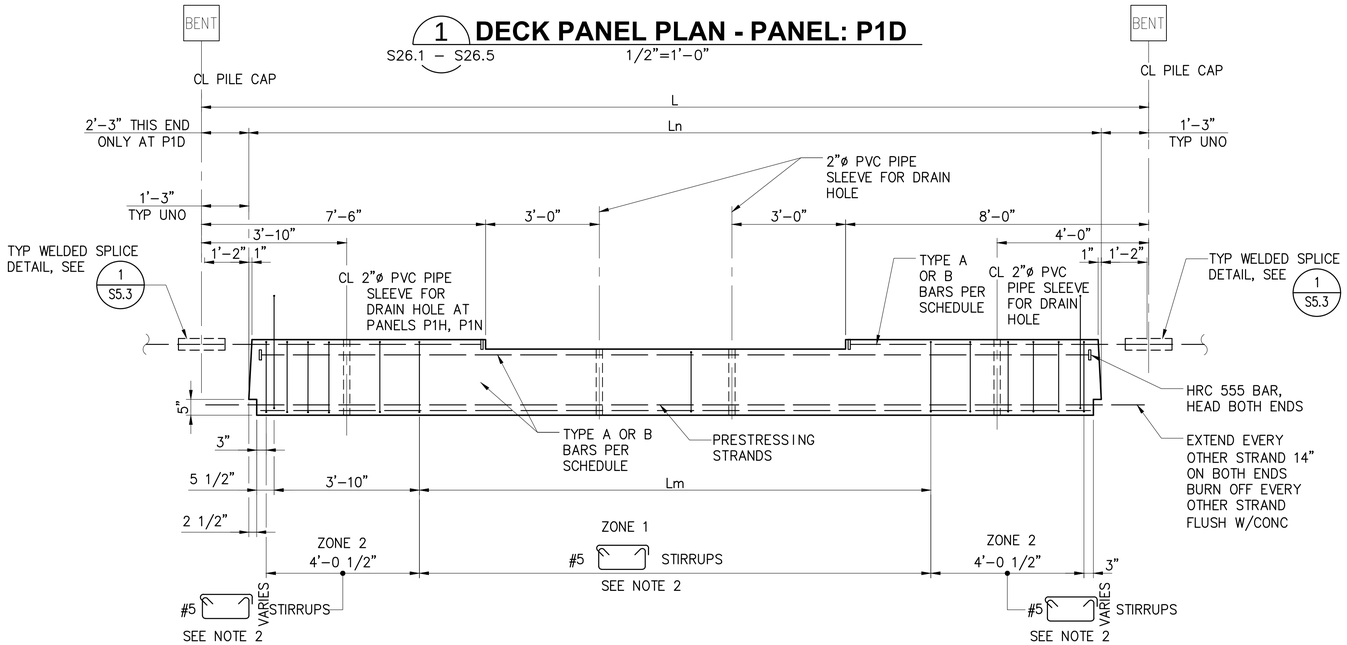


A – DECK PANEL SECTION

1"=1'–0"

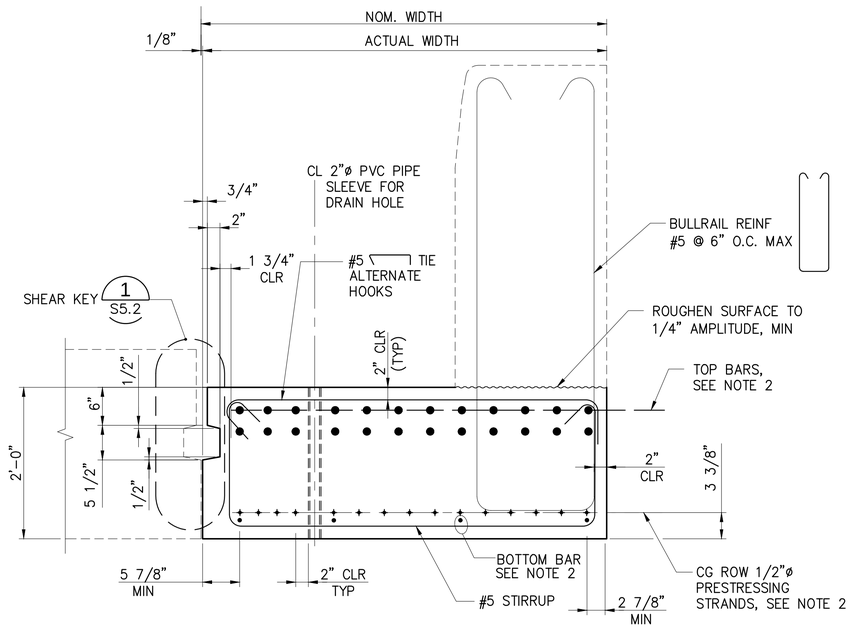
1 – DECK PANEL PLAN - PANEL: P1D

S26.1 – S26.5 1/2"=1'–0"



B – DEPRESSED DECK PANEL ELEVATION

1/2"=1'–0"



D – DECK PANEL SECTION

1"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DRAWING SCALE: AS NOTED

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 23

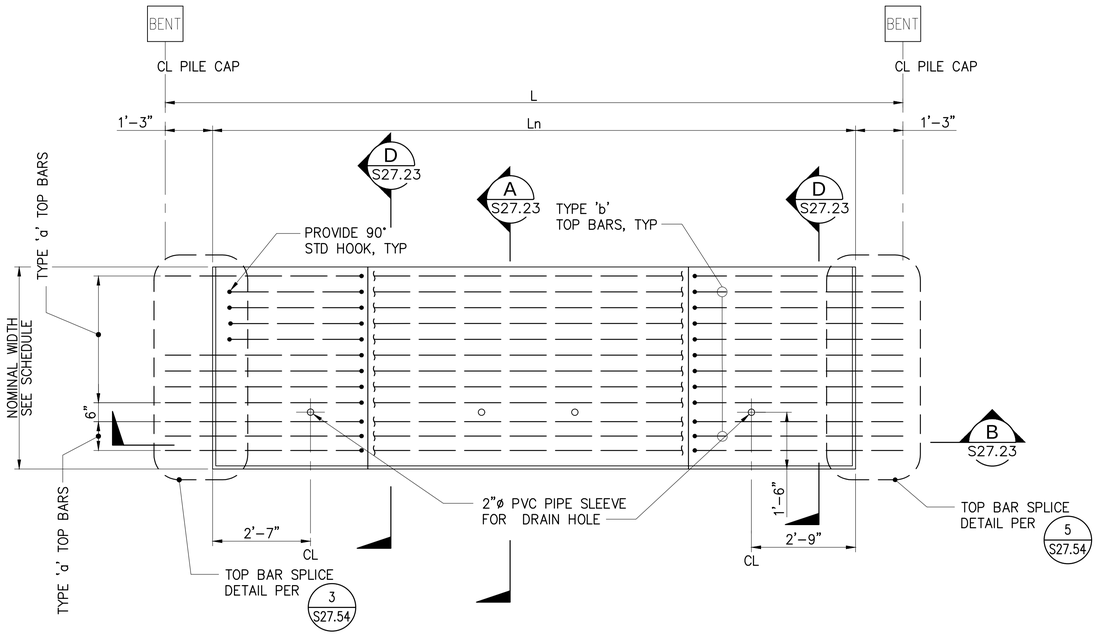
6552
S27.23
SH 317 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

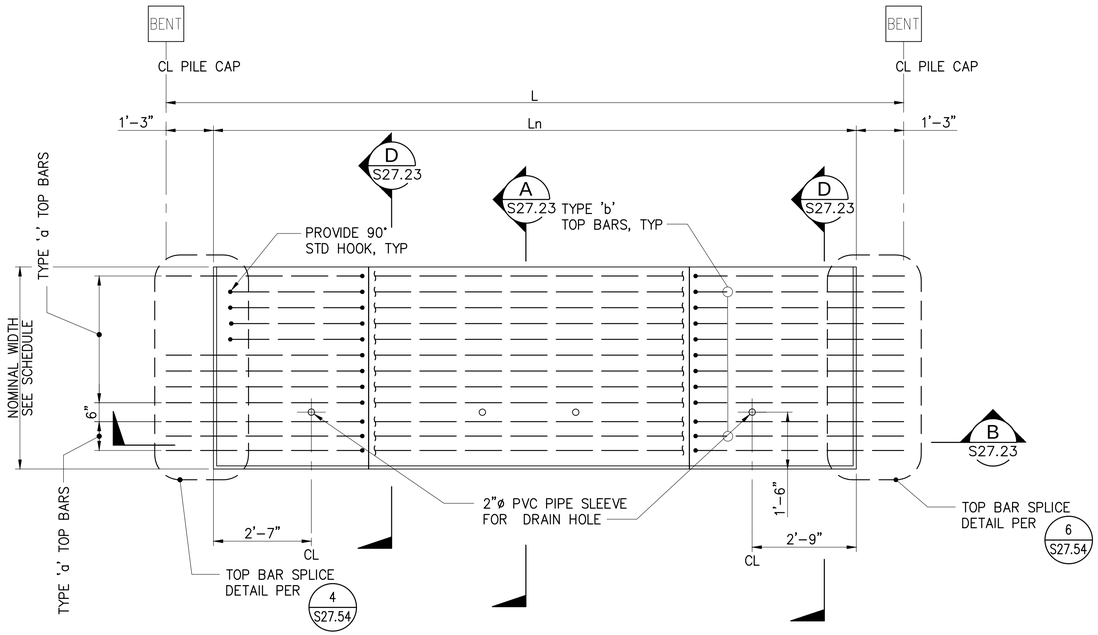
RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.23



1 DECK PANEL PLAN - PANEL: P1H

S26.1 – S26.5 1/2"=1'–0"



2 DECK PANEL PLAN - PANEL: P1N

S26.1 – S26.5 1/2"=1'–0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DRAWN BY DATE

APPROVED:

DIRECTOR ENG. DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 23A

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

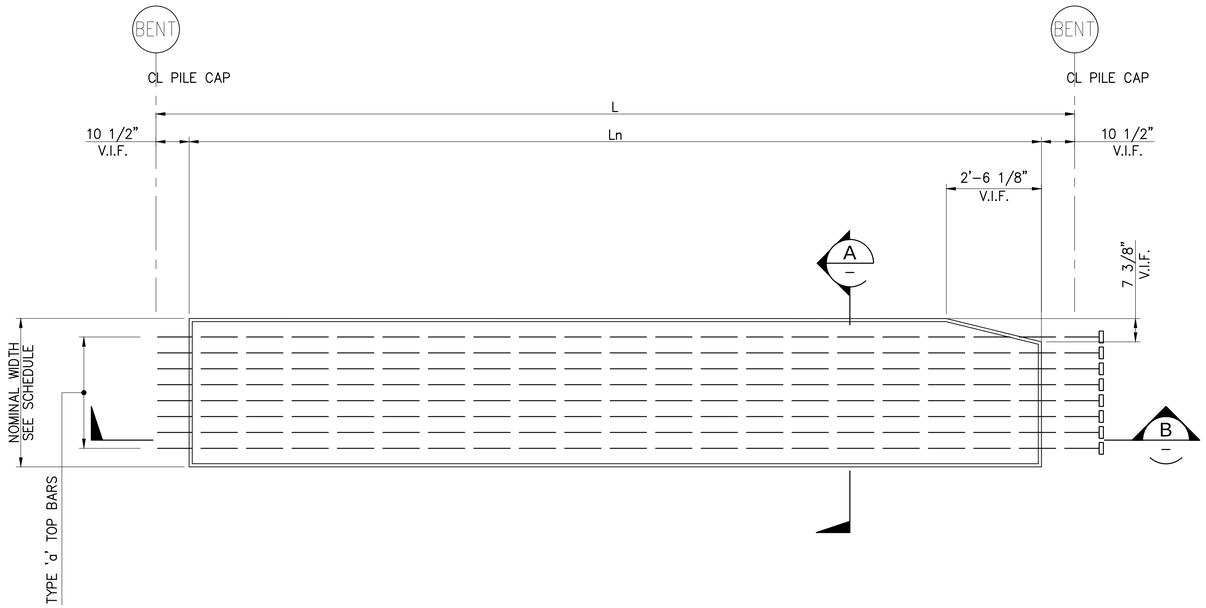
6552
S27.23A
SH 318 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

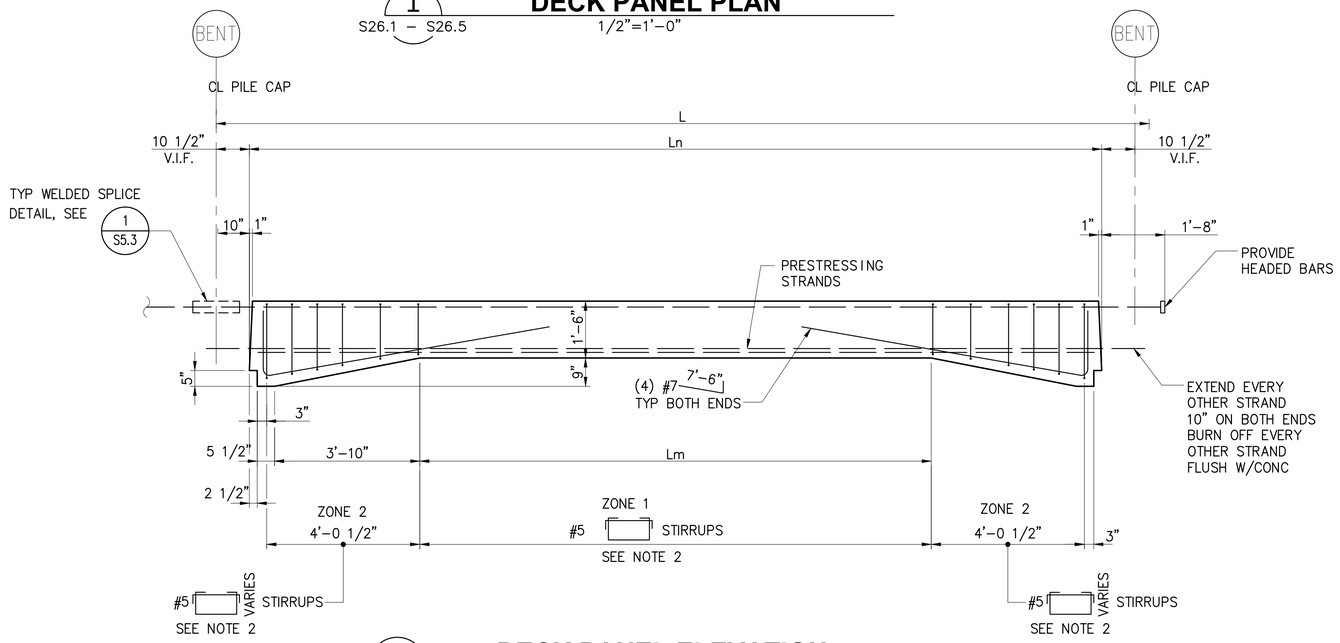
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.23A

BINDING EDGE



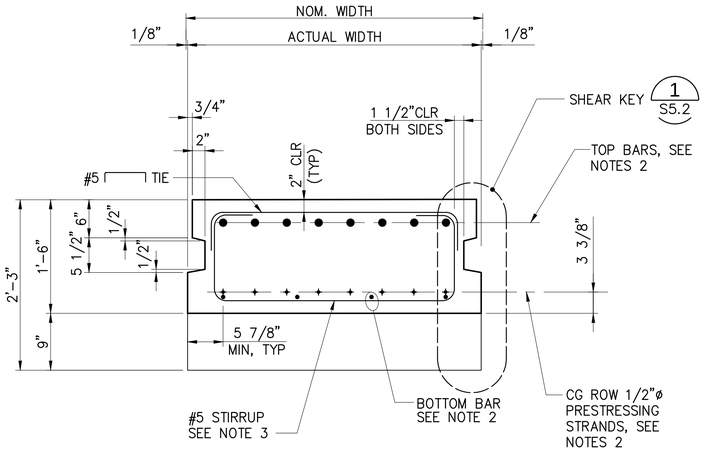
1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"



A DECK PANEL SECTION

1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P37B
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
tlemons Jul 20, 2018			

APPROVED:

DIRECTOR ENG.	DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 24

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

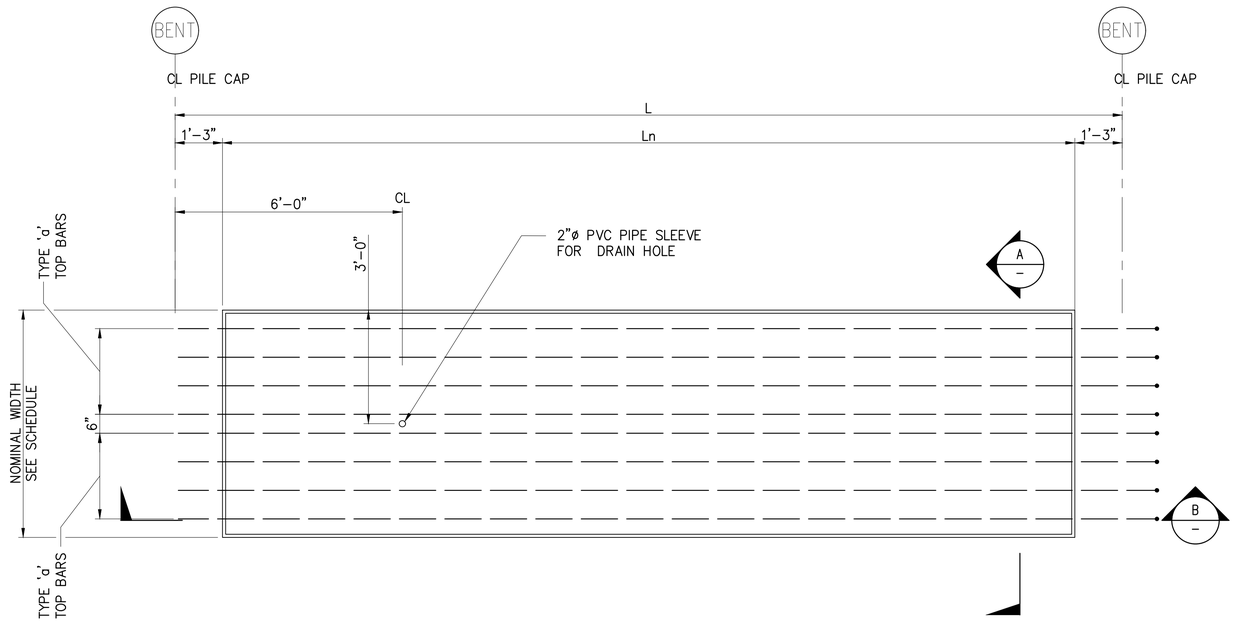
6552
S27.24
SH 319 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

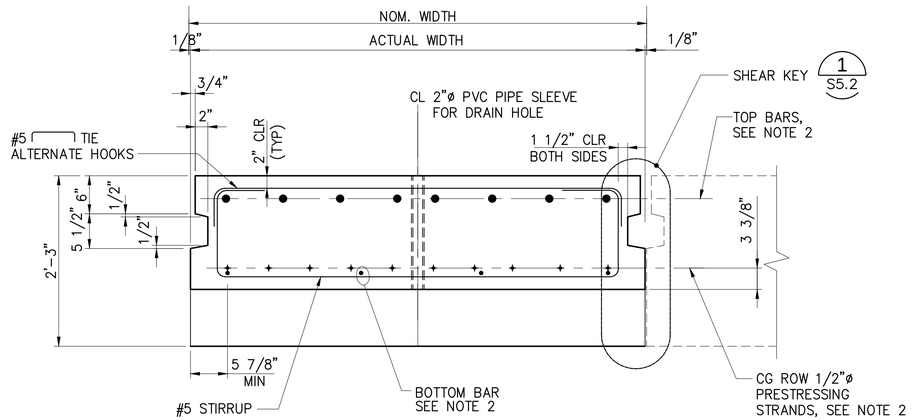
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.24

BINDING EDGE



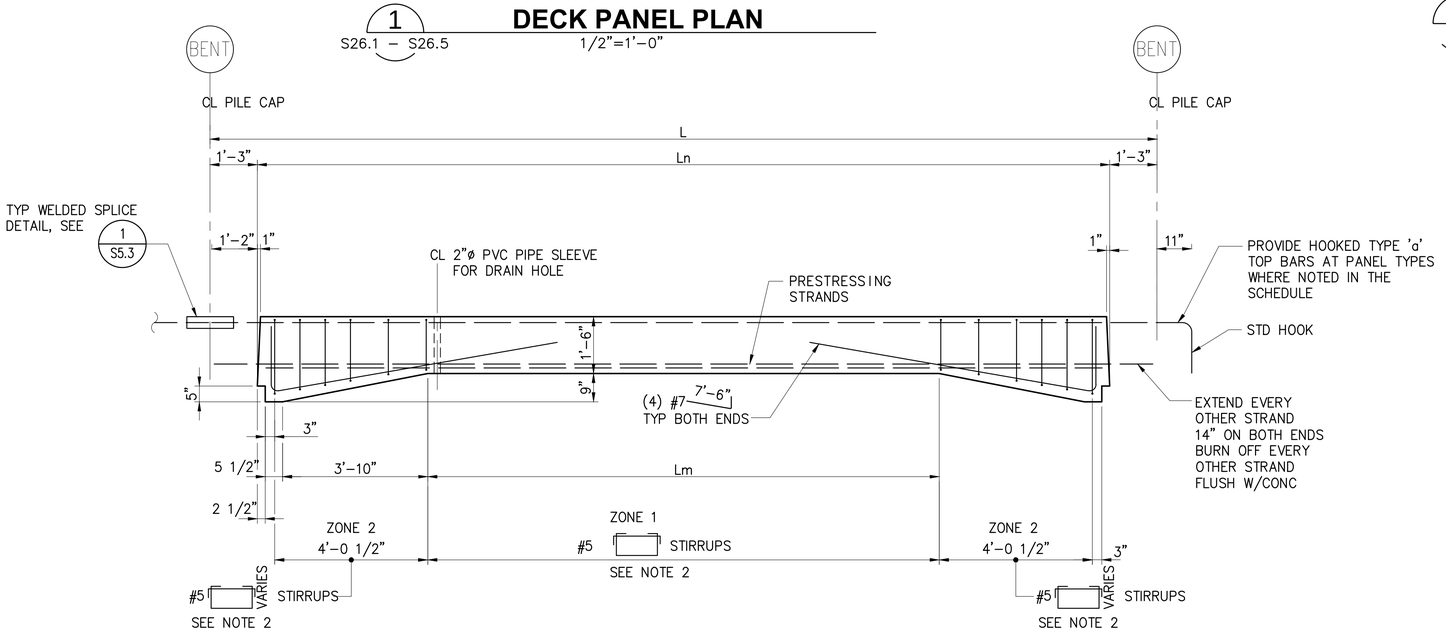
1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION

1"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P19
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 25

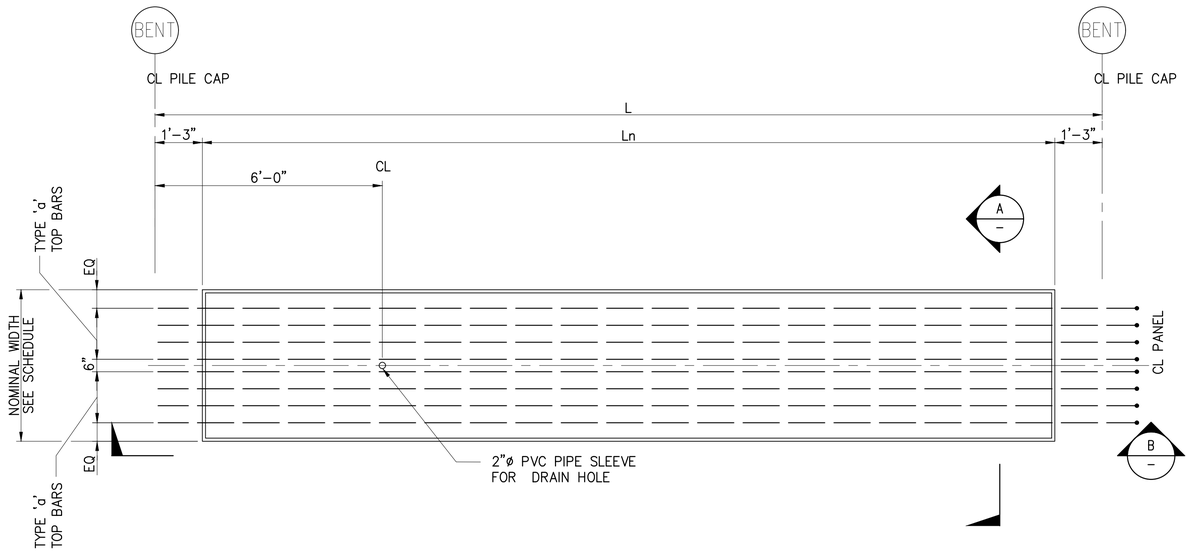
6552
S27.25
SH 320 OF 499

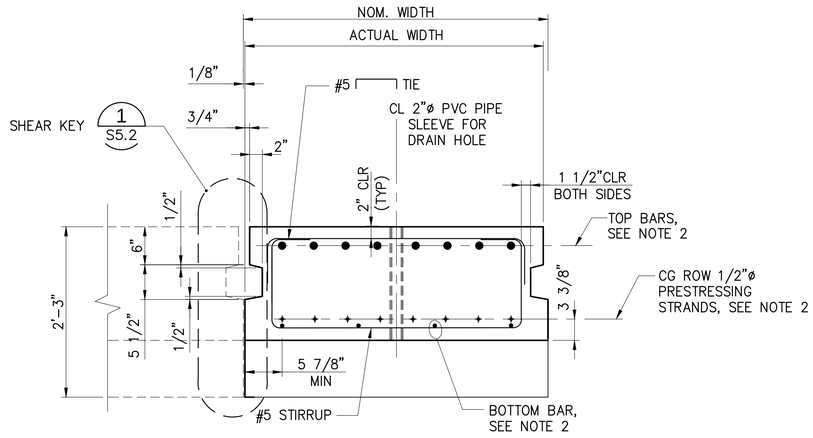
CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

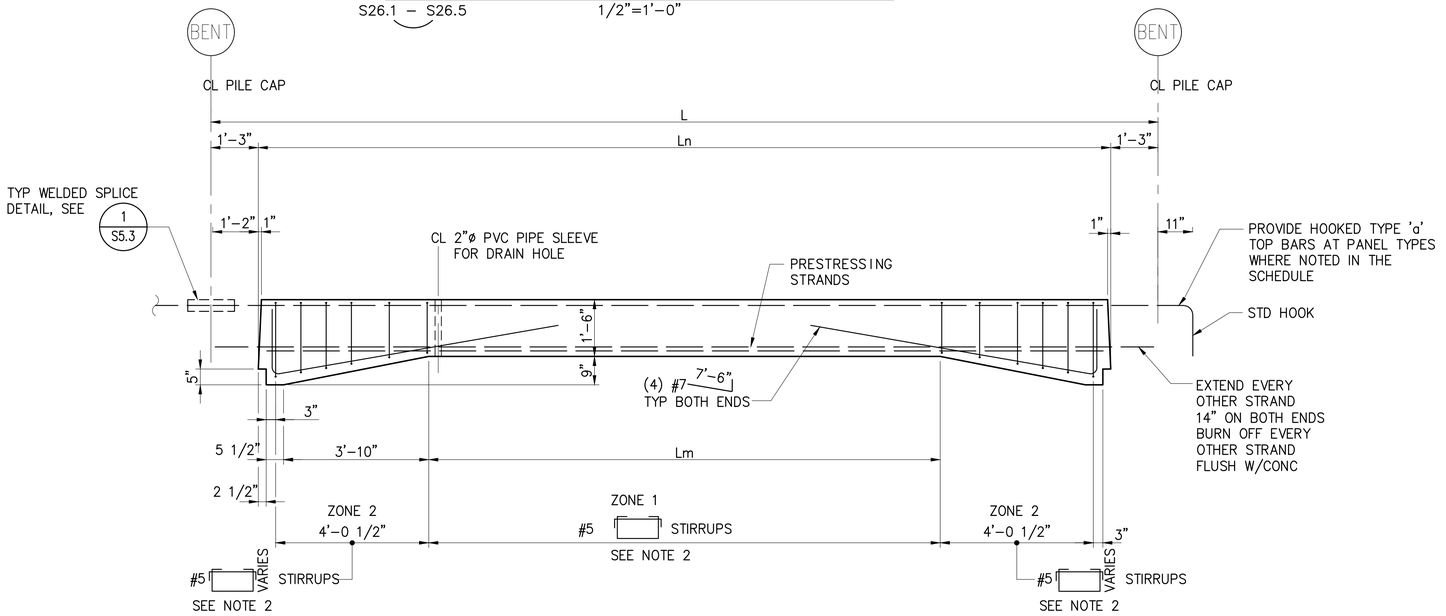
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.25





1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"

A DECK PANEL SECTION

1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P22
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.26

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	NAME	DATE
DESIGNED BY	SEK	
DRAWN BY	TAH	
CHECKED BY		
DIRECTOR ENG.		
PROJ. ENGR		

APPROVED:

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 26

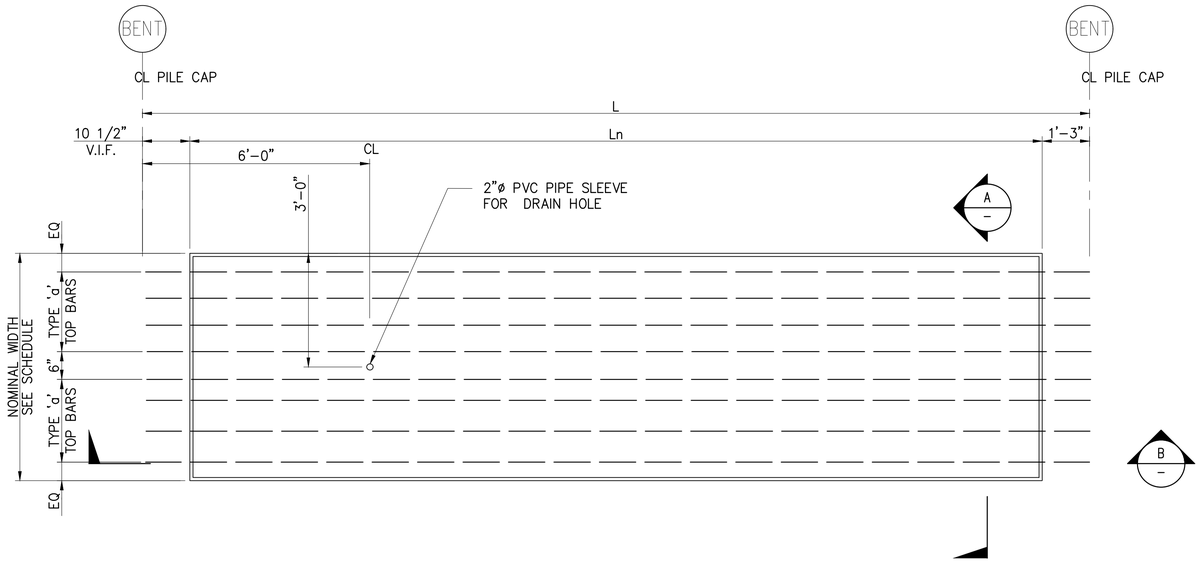
CONT/CONS:	0701136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S27.26
SH 321 OF 499

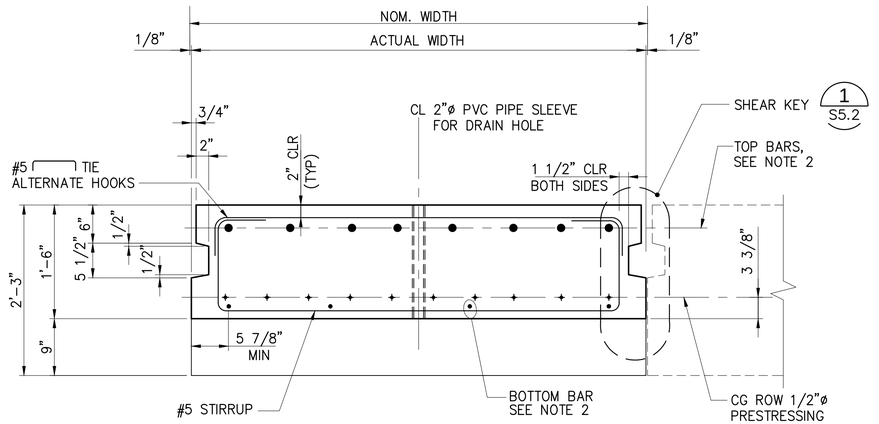
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



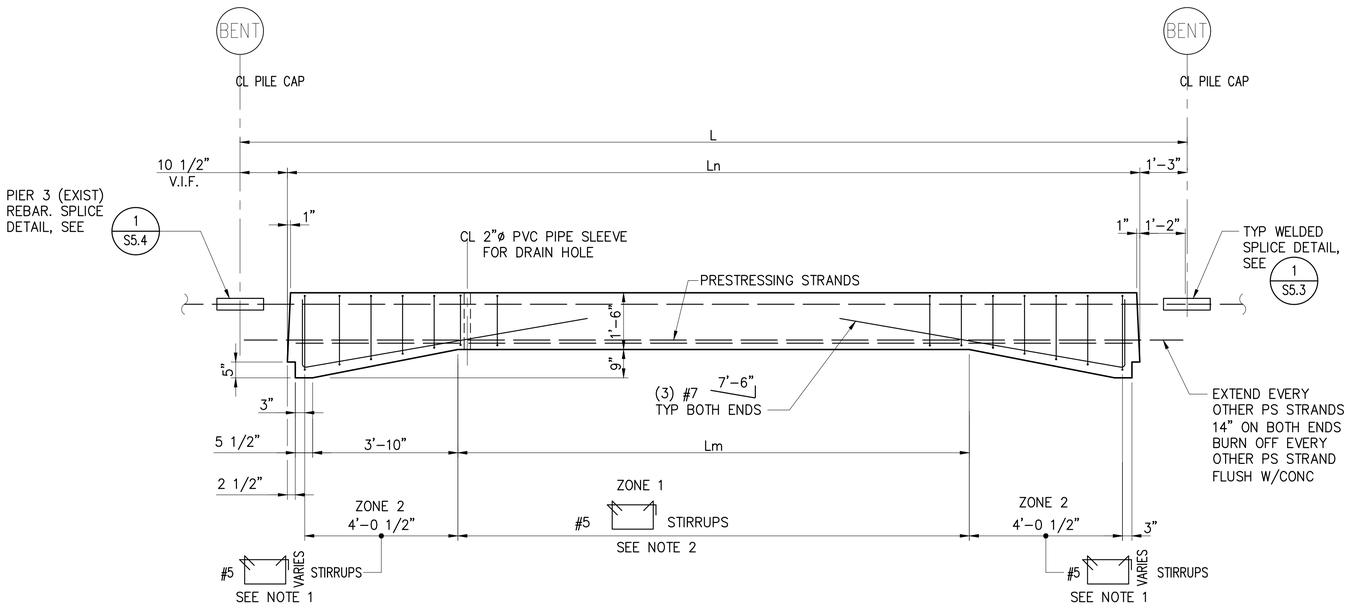
1 DECK PANEL PLAN

S26.1 – S26.5 — 1/2"=1'-0"



A – DECK PANEL SECTION

1"=1'-0"



B – DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P19A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE		CHECKED BY	SEK DATE
PRINTED BY: tlemons Jul 20, 2018	PROJ. ENGR		TAH DATE
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED		

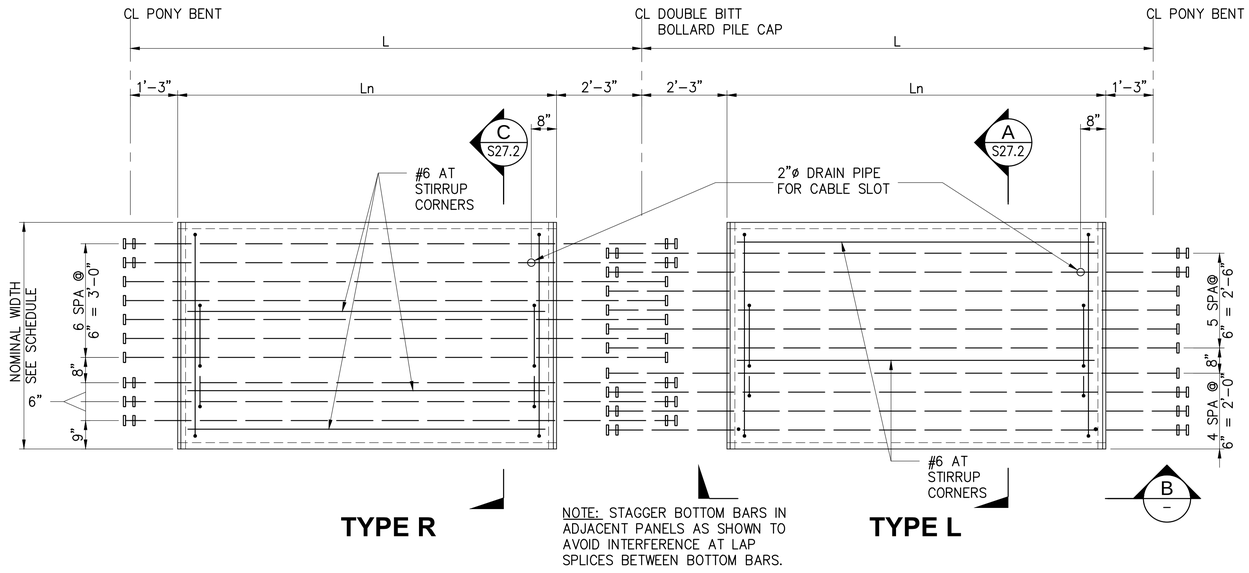
PIER 4 PHASE 2 RECONFIGURATION
DECK PANEL DETAILS - SHEET 27

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.27
SH 322 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

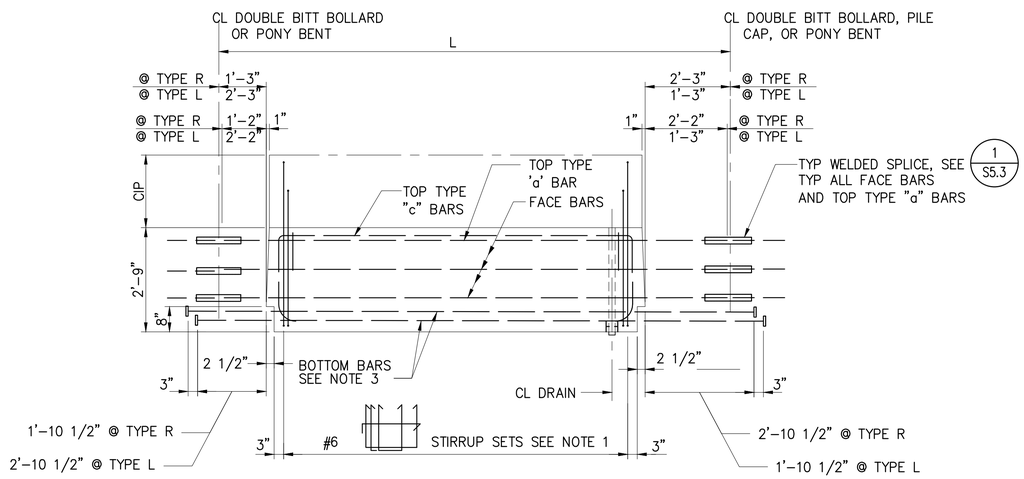
PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.27



NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

CRANE BEAM
1 TYPE "L" & "R" PANEL P2C PLAN

S26.1 – S26.5 1/2"=1'–0"



TYPICAL TYPE "L" AND "R" CRANE BEAM PANEL ELEVATION

B – 1/2"=1'–0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR DECK PANEL TYPE P2C
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
PROJ. ENGR DATE
tlemons Jul 20, 2018 PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 28

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

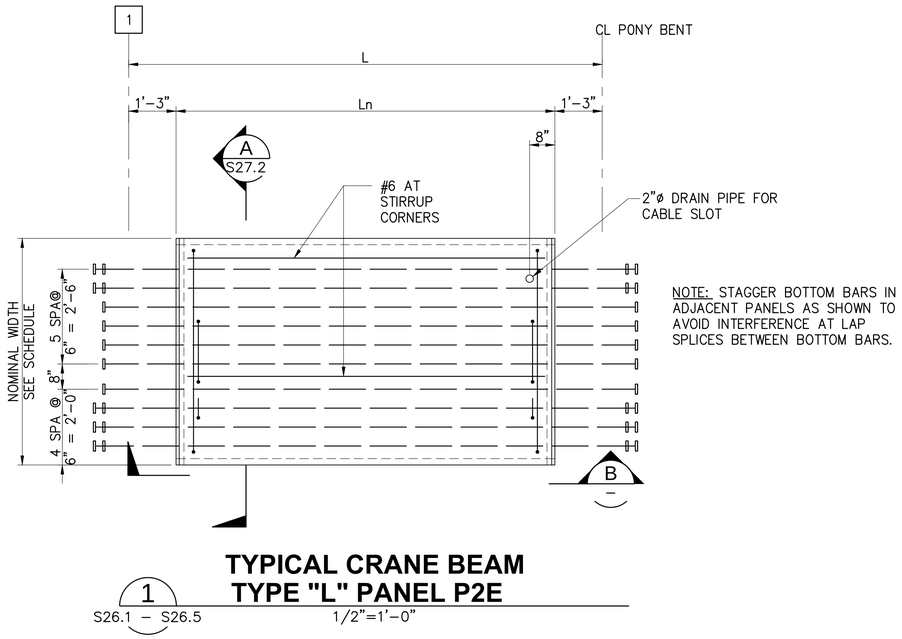
6552
S27.28
SH 323 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.28

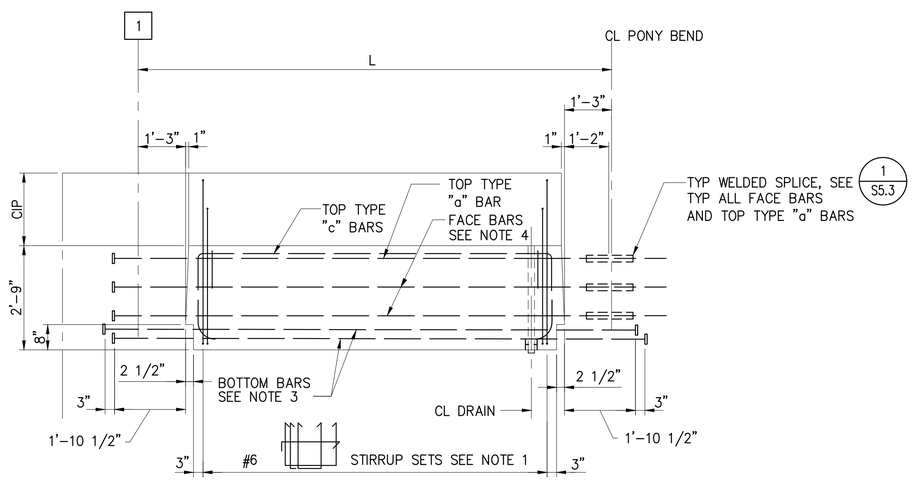
BINDING EDGE



NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

TYPICAL CRANE BEAM TYPE "L" PANEL P2E

1 S26.1 – S26.5 — 1/2"=1'-0"



CRANE BEAM PANEL P2E ELEVATION

B – — 1/2"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR DECK PANEL TYPE P2E
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS. FOR PANEL P2E PROVIDE HEADED REINFORCEMENT W/HEADS AT BEND [1]

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 29

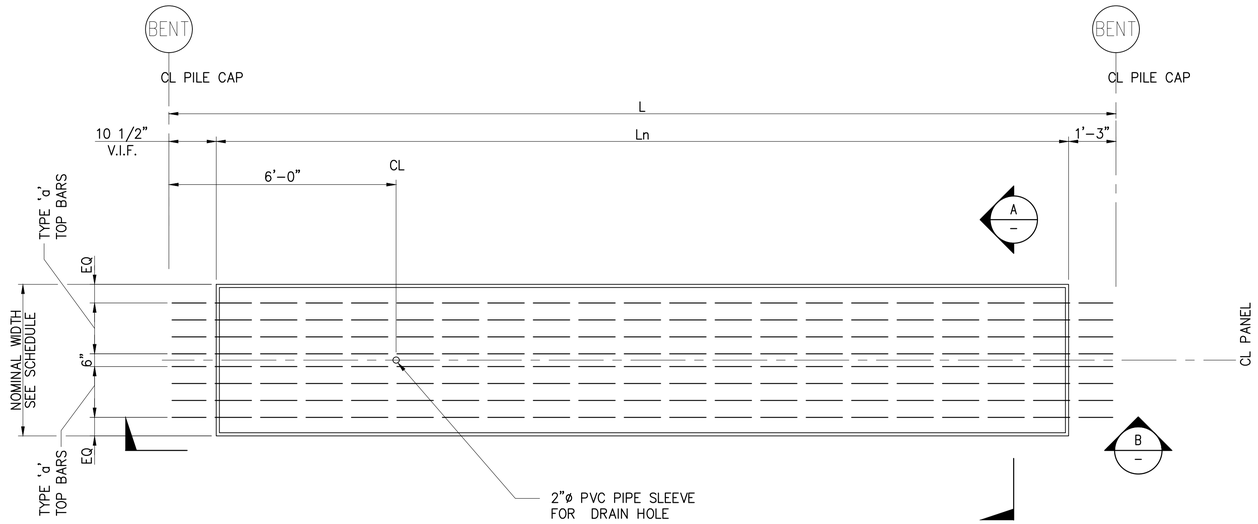
	SEK		
	CHECKED BY DATE		
	TAH		
	PROJ. ENGR DATE		
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

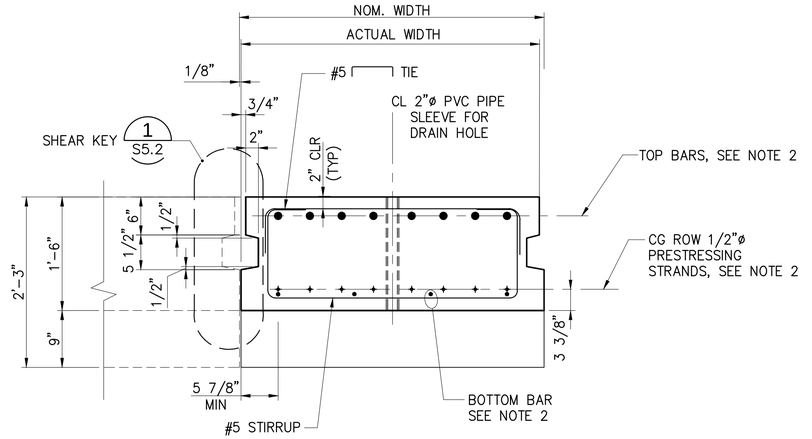
6552
S27.29
SH 324 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

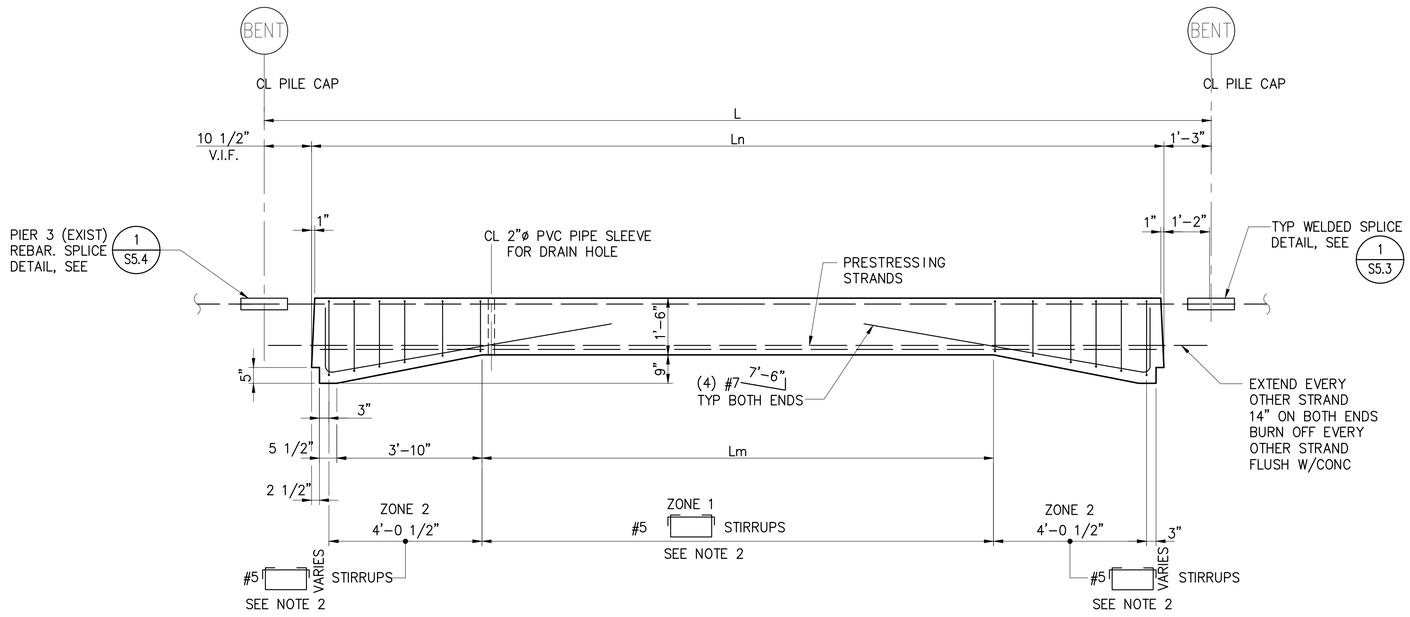
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_09125\10912S1-S27.29



1 S26.1 – S26.5 **DECK PANEL PLAN** 1/2"=1'-0"



A – **DECK PANEL SECTION** 1"=1'-0"



B – **DECK PANEL ELEVATION** 1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P22A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.30

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY	DATE	
TAH	PROJ. ENGR	DATE	
DIRECTOR ENG.	DATE		

APPROVED:

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

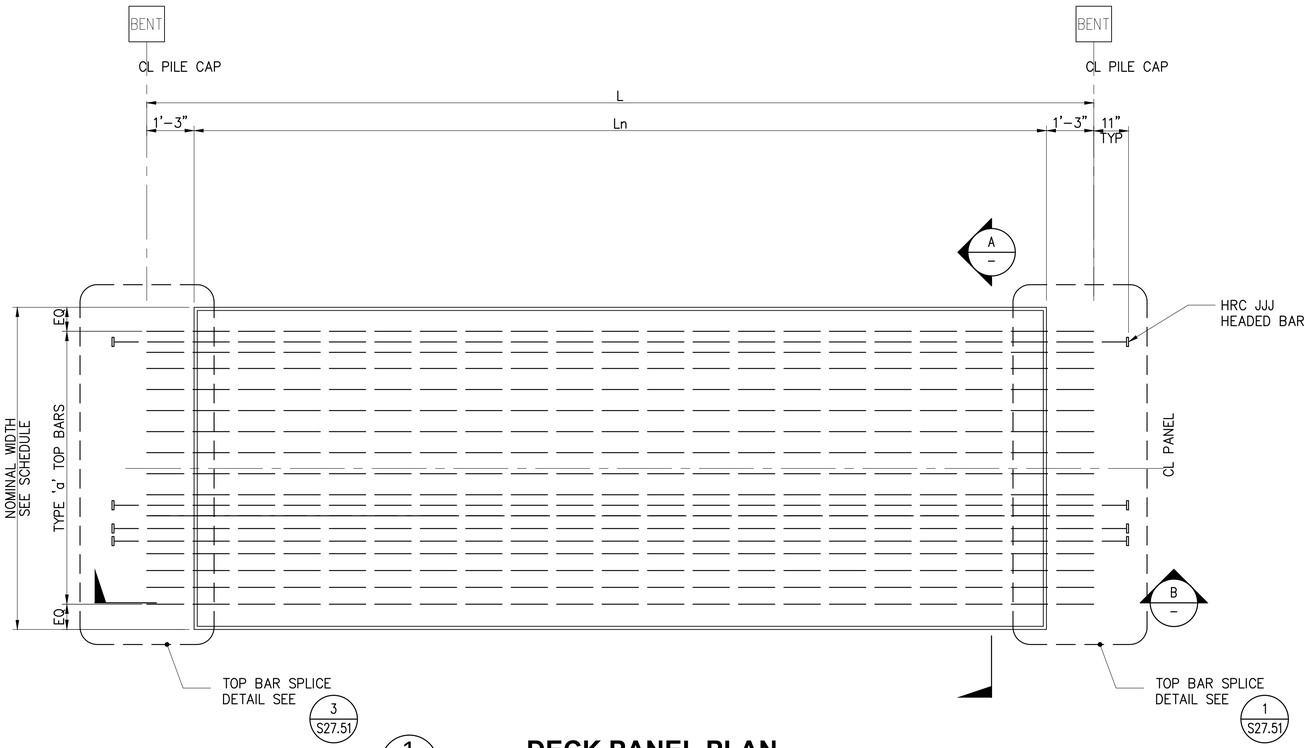
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 30

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

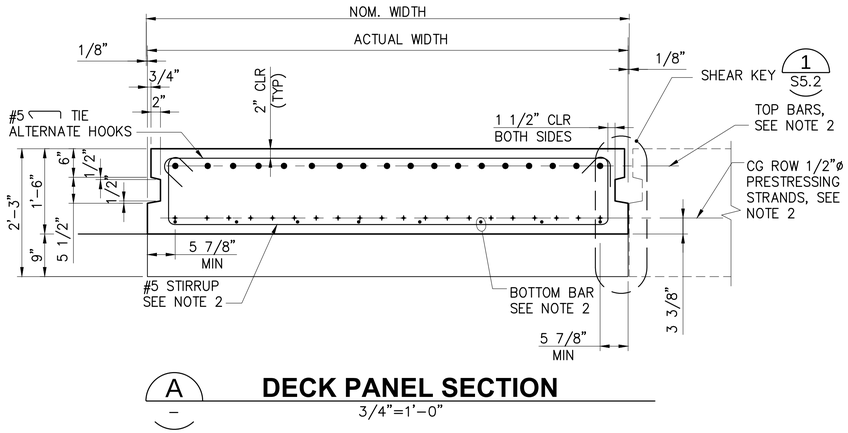
6552
S27.30
SH 325 OF 499

CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED

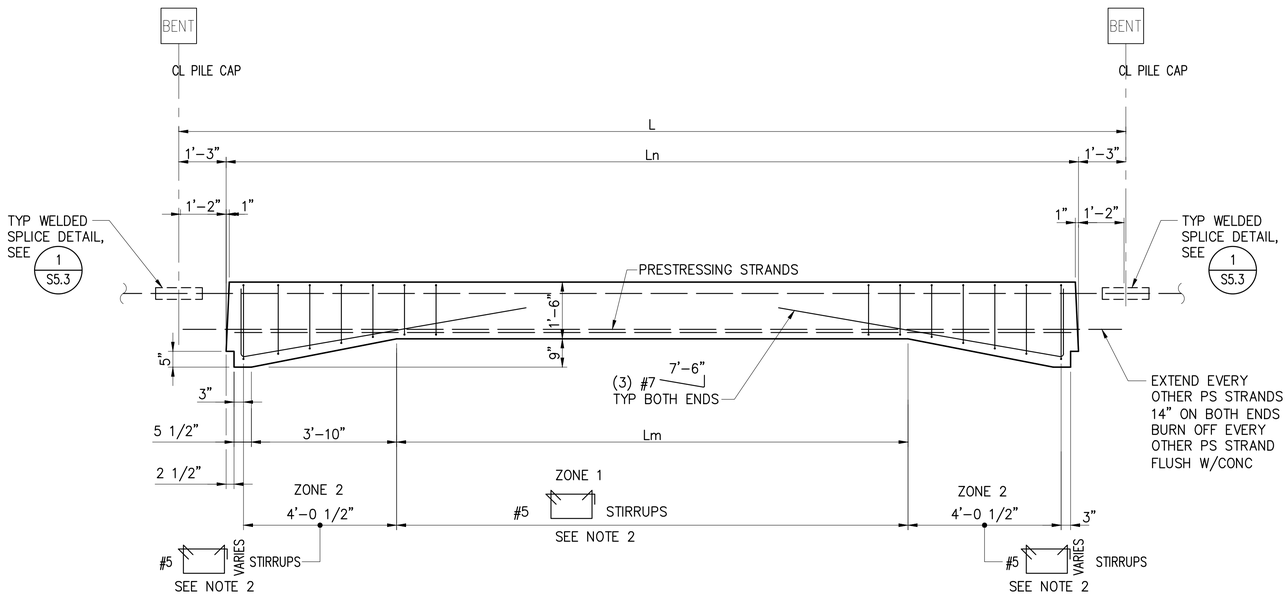
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 DECK PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION
3/4"=1'-0"



B DECK PANEL ELEVATION
1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P38
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 31

6552
S27.31
SH 326 OF 499

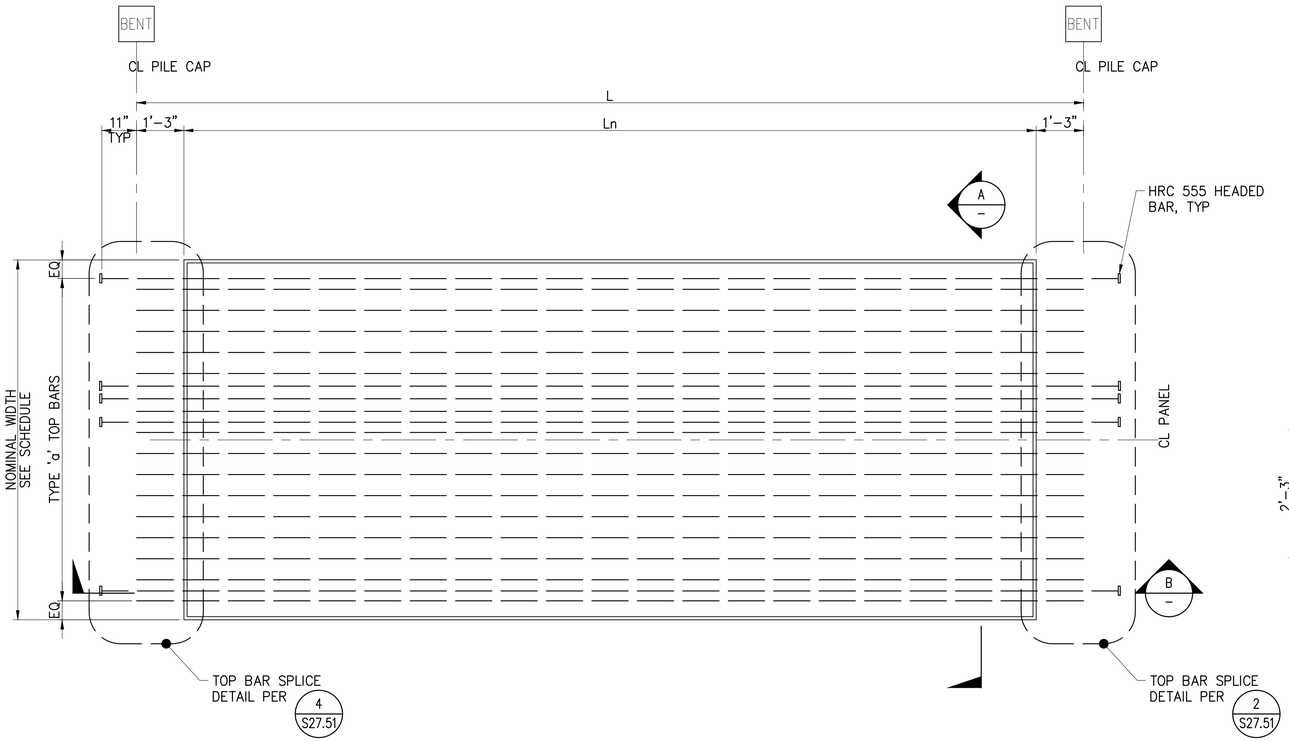
SEK			
CHECKED BY DATE			
TAH			
PROJ. ENGR DATE			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

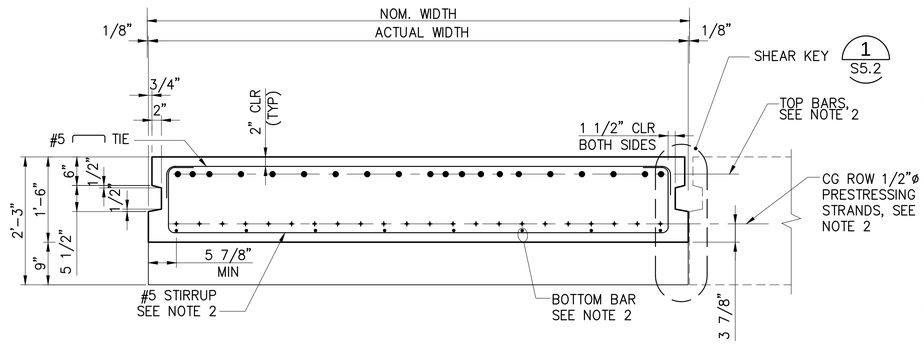
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.31



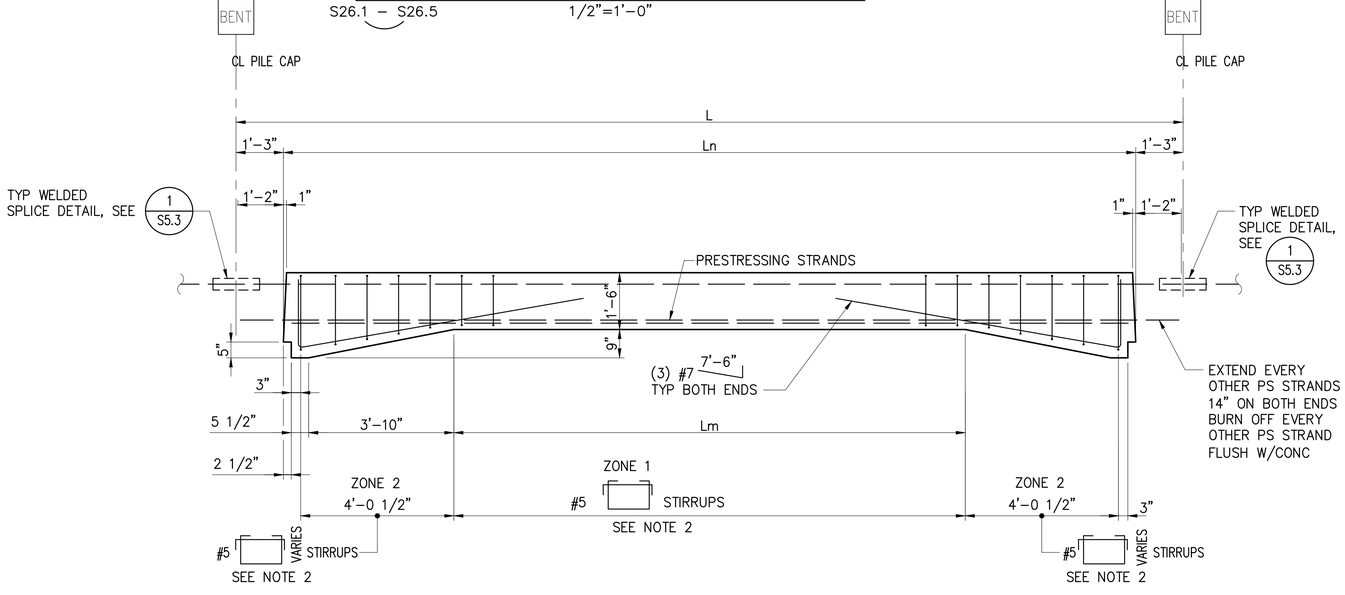
1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



A DECK PANEL SECTION

1"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P40
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 32

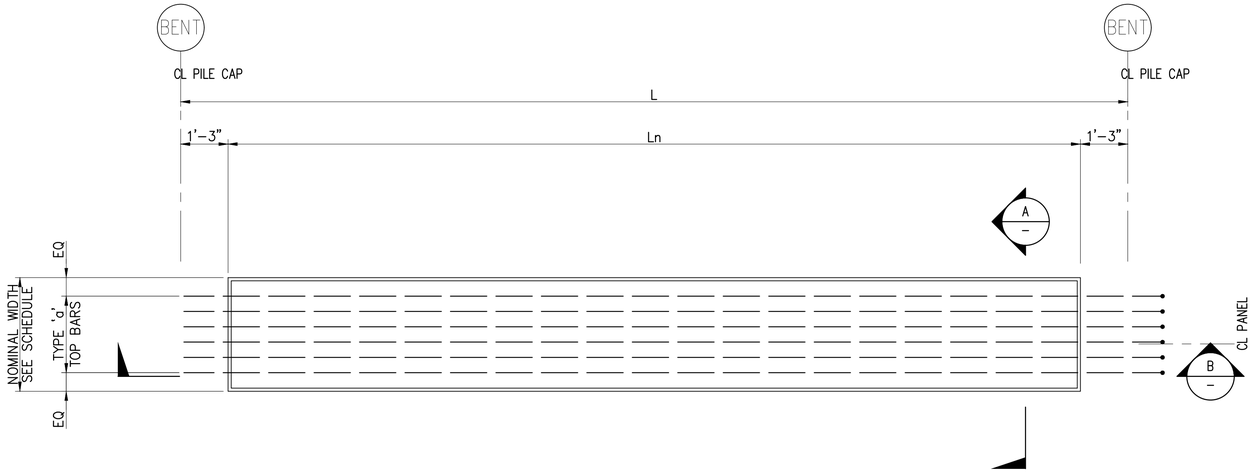
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Title 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S27.32
SH 327 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

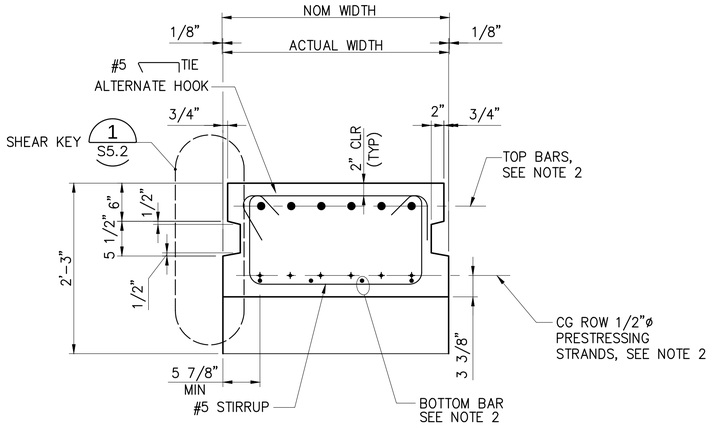
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-I114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.32



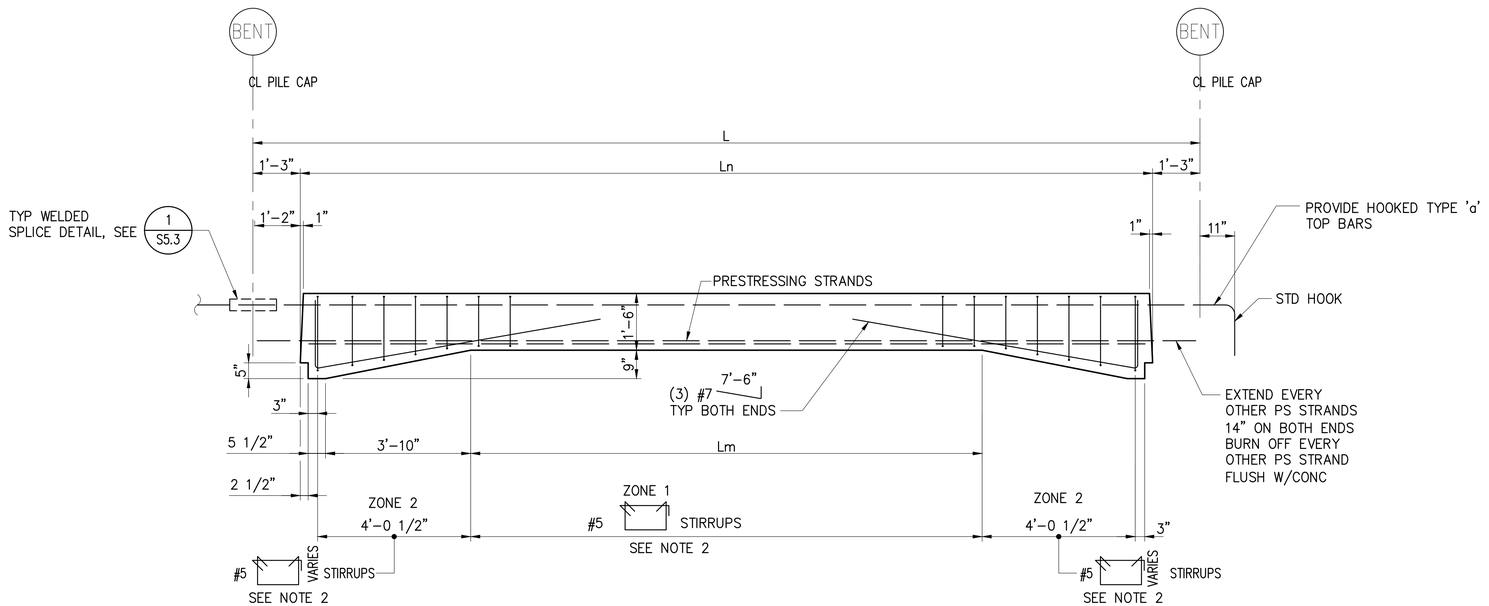
1 S26.1 – S26.5 **DECK PANEL PLAN**

1/2"=1'-0"



A – **DECK PANEL SECTION**

1"=1'-0"



B – **DECK PANEL ELEVATION**

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P41
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

		SEK	
		CHECKED BY	DATE
		TAH	
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 33

TOWNSHIP:	21N	RANGE:	3E
DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:		DRAWING SCALE:	AS NOTED

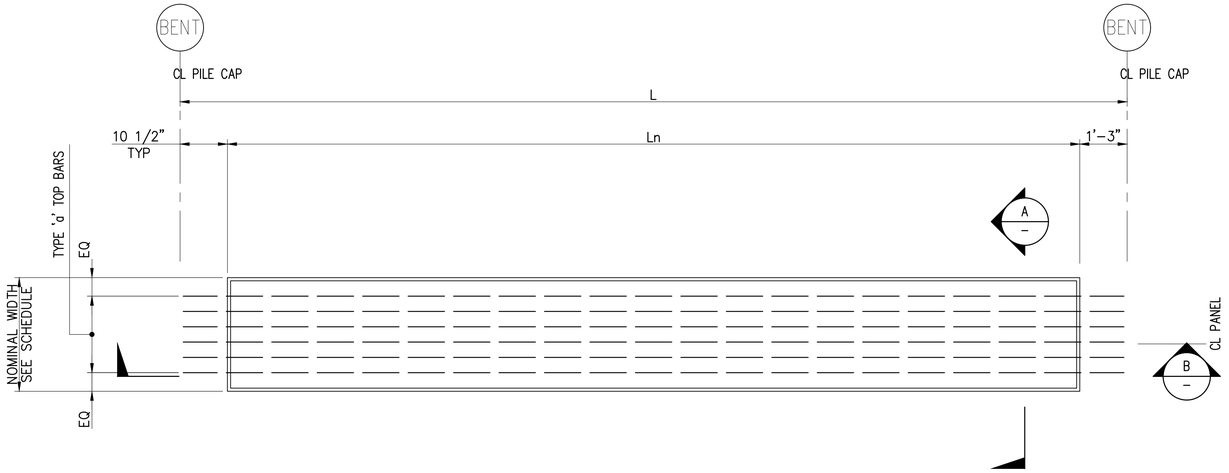
6552
S27.33
SH 328 OF 499

CONT/CONS:	0701136
M. ID:	091251
PHASE:	CONFORMED

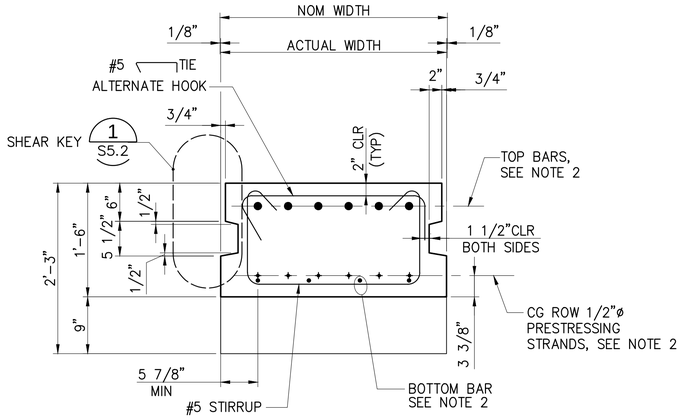
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

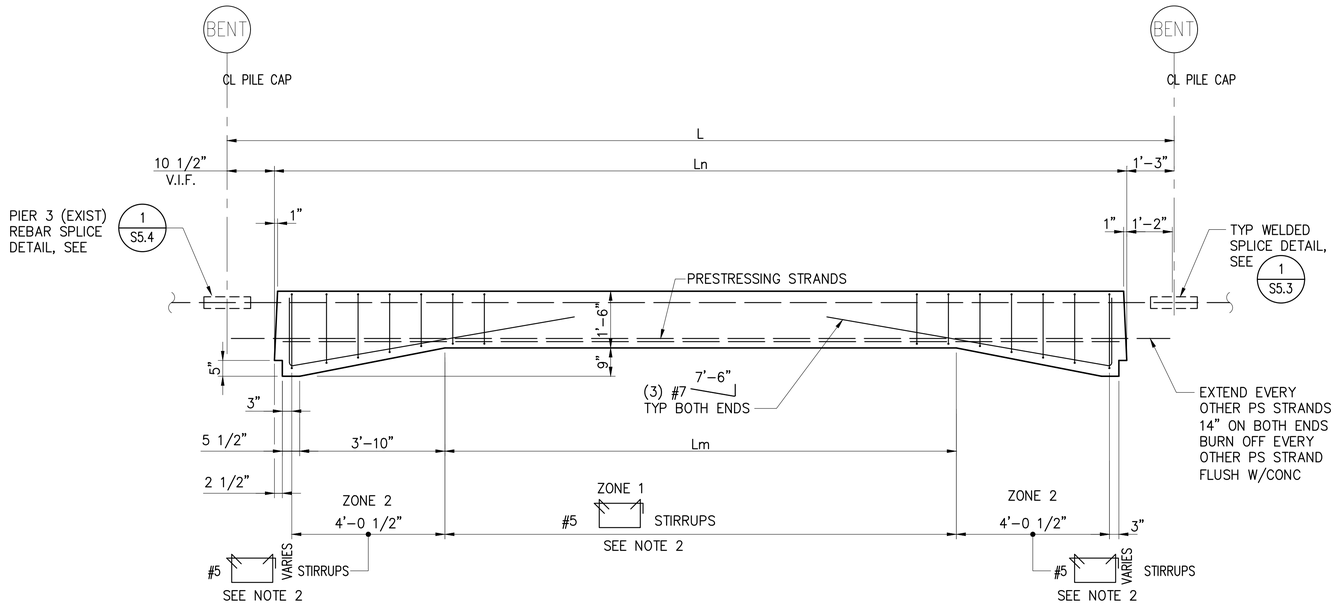
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.33



1 S26.1 – S26.5 **DECK PANEL PLAN** 1/2"=1'-0"



A – **DECK PANEL SECTION** 1"=1'-0"



B – **DECK PANEL ELEVATION** 1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P41A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.34

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 34

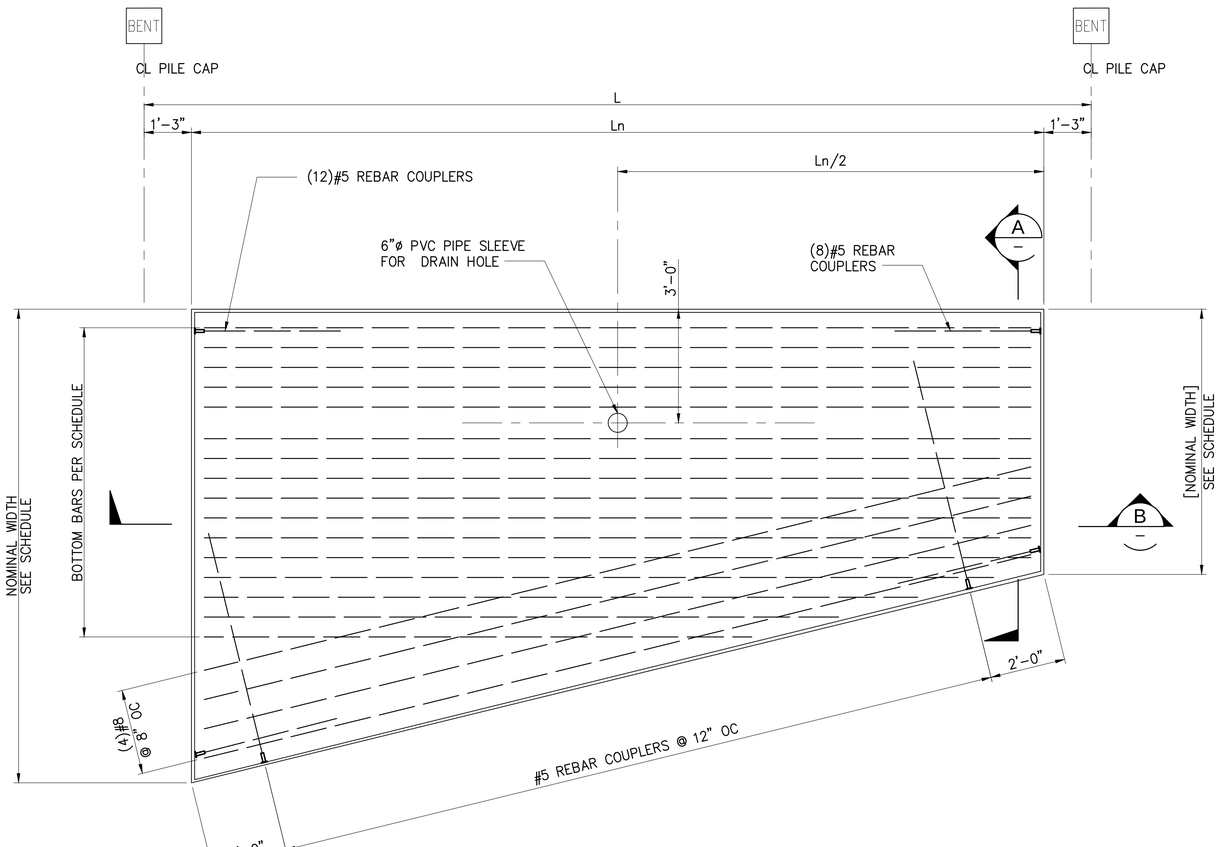
DIRECTOR ENG.	DATE	SEK	CHECKED BY	DATE
		TAH	PROJ. ENGR	DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

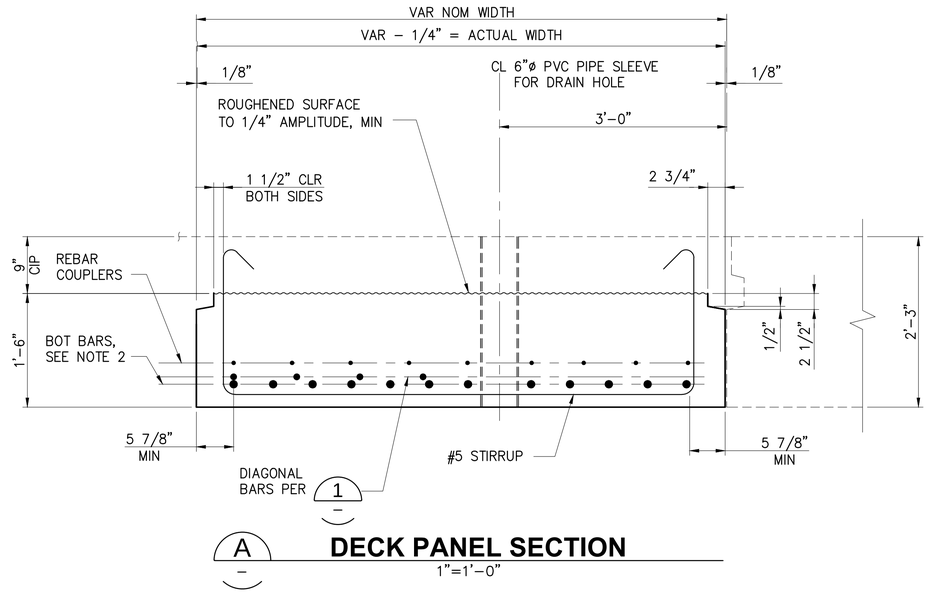
6552
S27.34
SH 329 OF 499

CONT/CONS:	0701.36	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:					

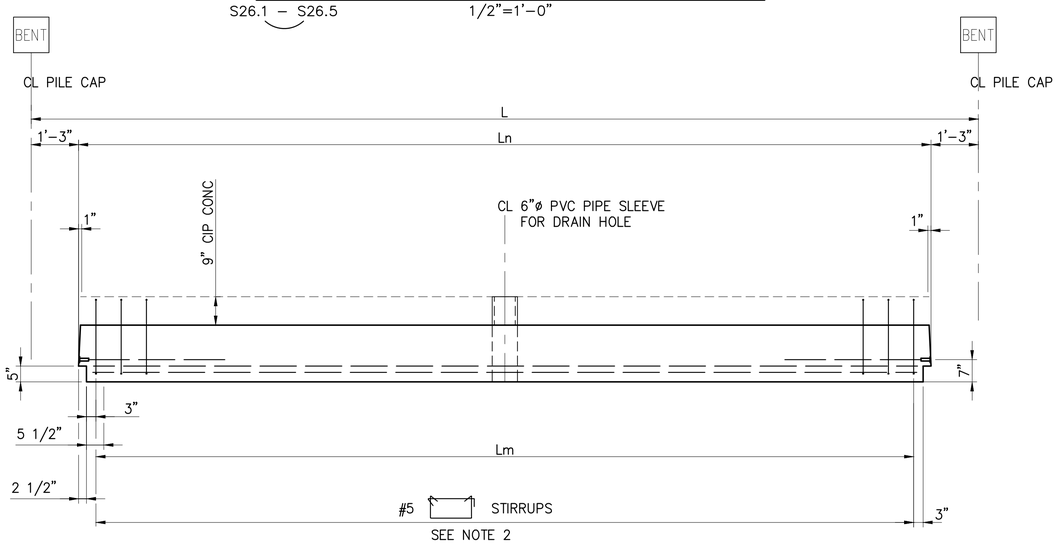
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 S26.1 – S26.5 **DECK PANEL PLAN** 1/2"=1'-0"



A – **DECK PANEL SECTION** 1"=1'-0"



B – **DECK PANEL ELEVATION** 1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P50, P50A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE | CHECKED BY SEK DATE
PROJ. ENGR TAH DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 35

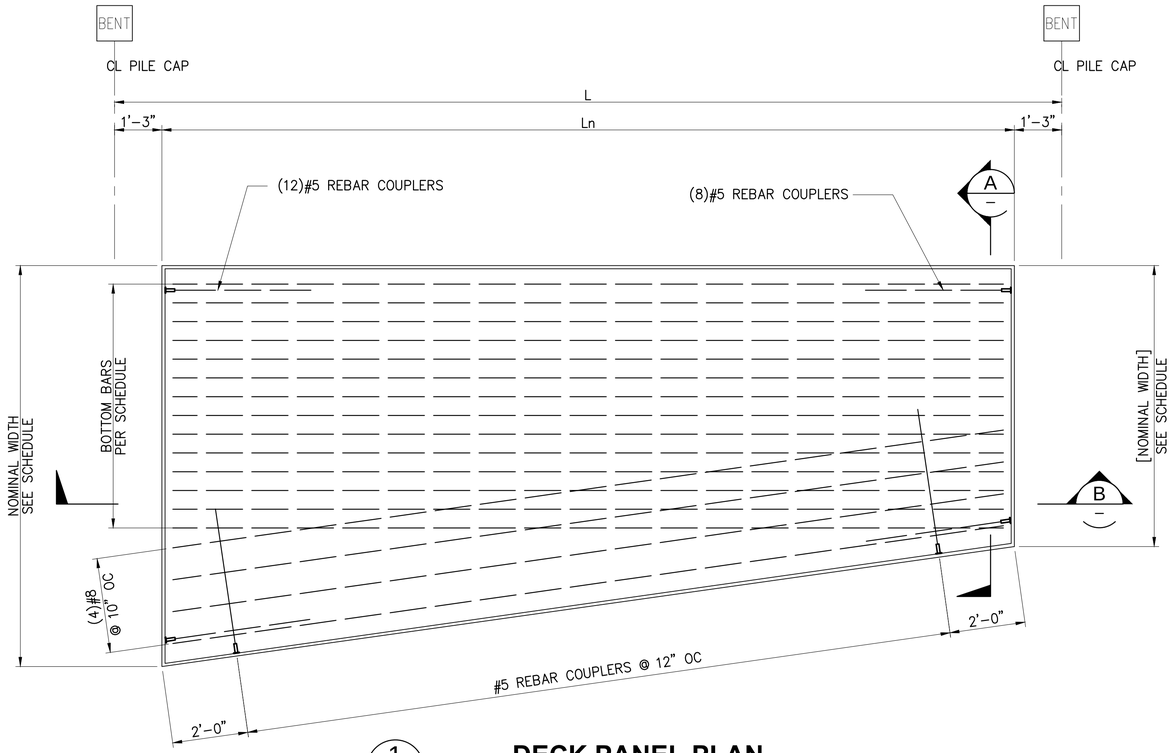
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S27.35
SH 330 OF 499

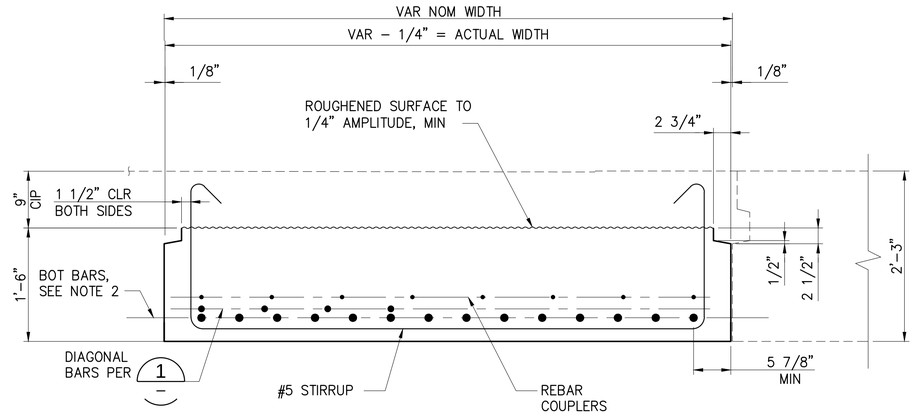
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

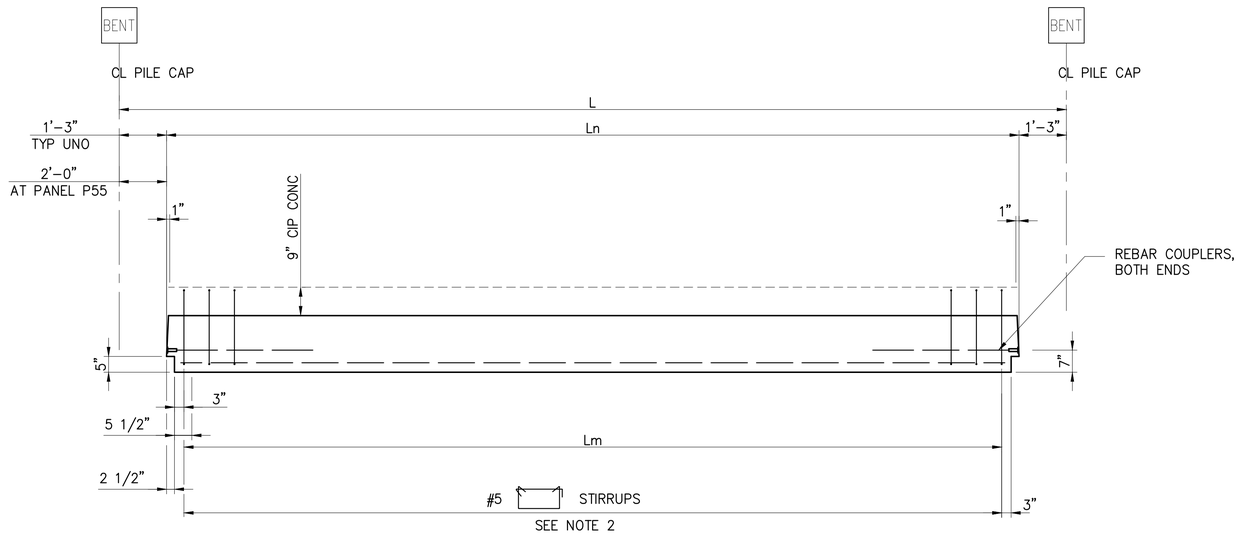
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.35



1 S26.1 – S26.5 **DECK PANEL PLAN** 1/2"=1'-0"



A – **DECK PANEL SECTION** 1"=1'-0"



B – **DECK PANEL ELEVATION** 1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P52, P55, P56
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S27.36

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

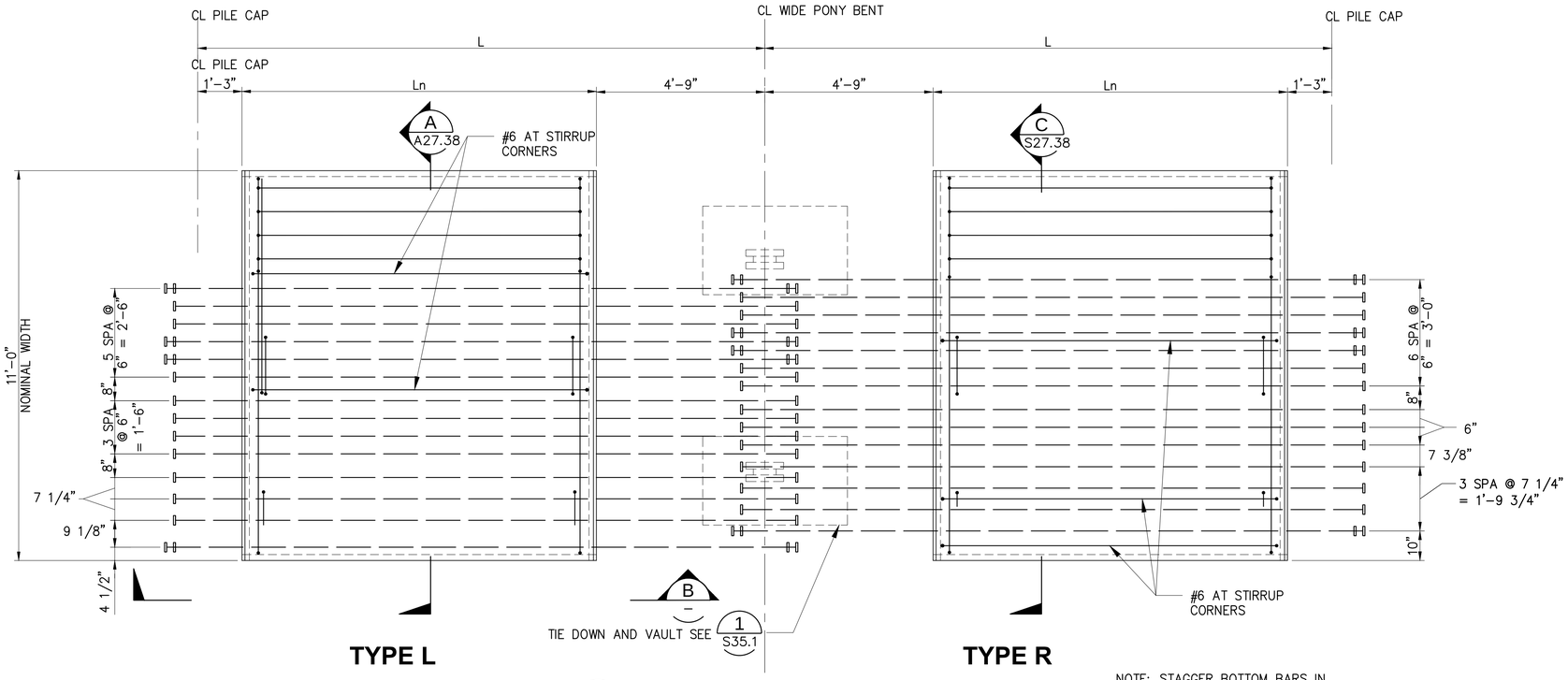
DIRECTOR ENG. DATE

DESIGNED:	SEK	SECTION: 27	
DRAWN:		RANGE: 3E	
CHECKED:	SEK	TOWNSHIP: 21N	
QA/QC:	TAH	DAT–HRZ: WA83-SF	
PROJ. ENGR	DATE	VERT: MLLW 19.39' @ Tide 22 1933	
PRINTED BY:	tlemons Jul 20, 2018	PORT ADDRESS: ONE SITCUM PLAZA	
CONT/CONS:	070136	PARCEL:	
M. ID:	091251	DRAWING SCALE: AS NOTED	
PHASE:	CONFORMED	TACOMA, WA 98401-1837	

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 36

6552
S27.36
SH 331 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



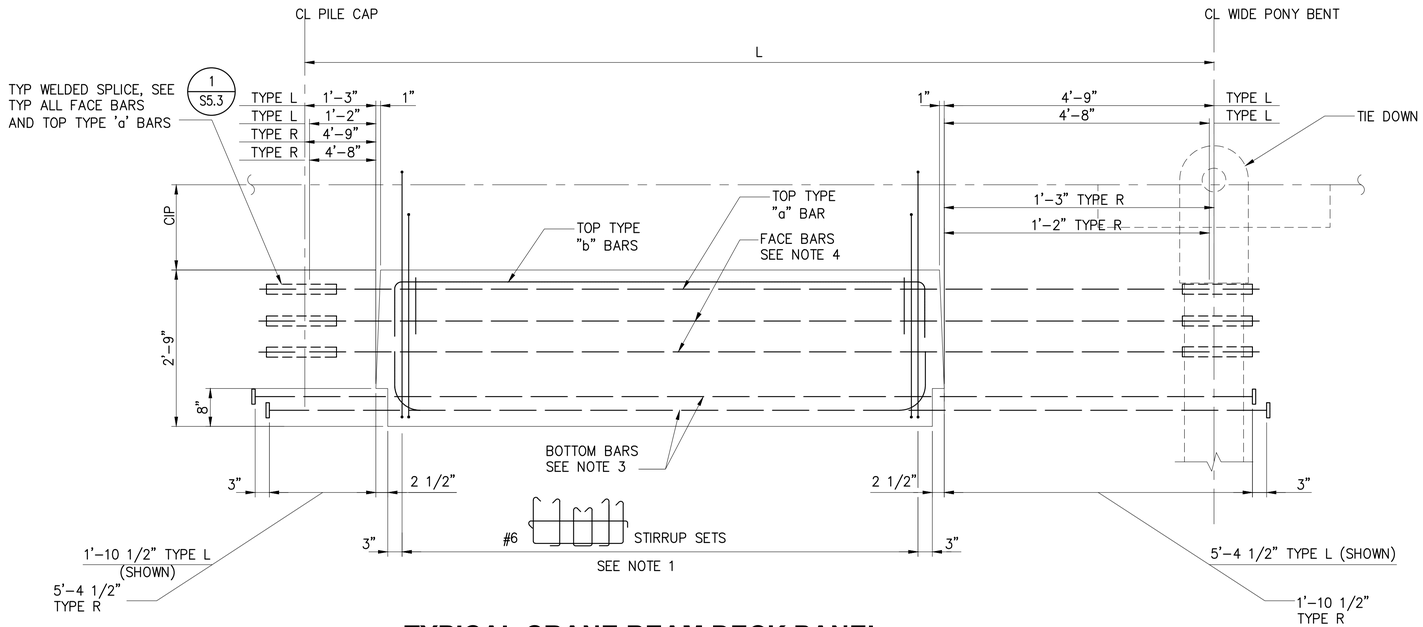
1 CRANE BEAM - P8D "TYPE R & L"

S26.1 – S26.5 1/2"=1'-0"

NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE, P8D
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS



TYPICAL CRANE BEAM DECK PANEL SECTION TYPE L P8D

B – 3/4"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons	Jul 20, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 37

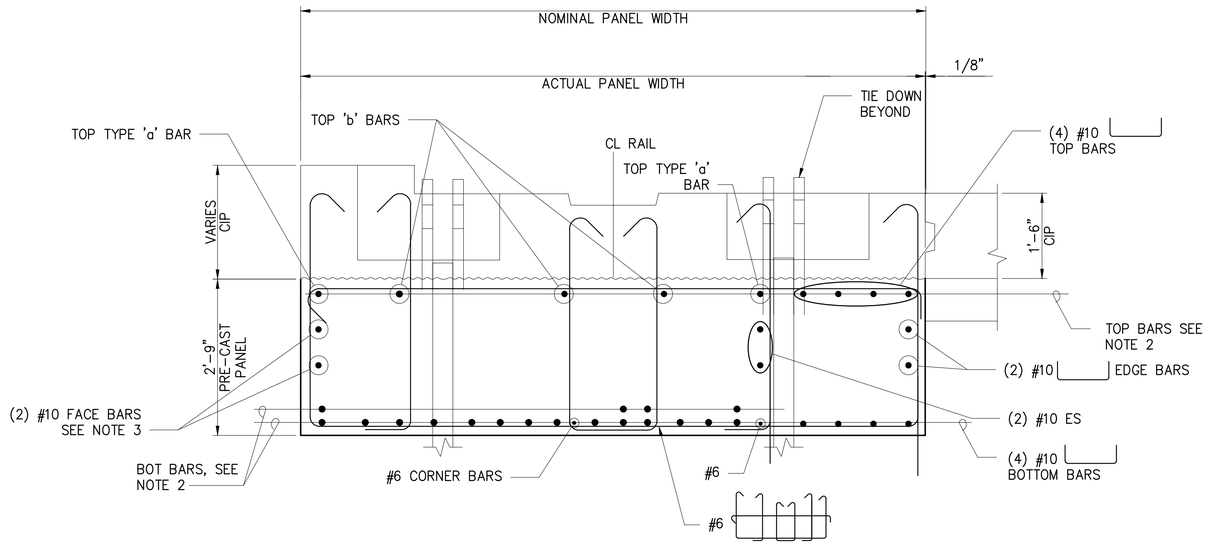
6552			
S27.37			
SH 332 OF 499			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.37

BINDING EDGE



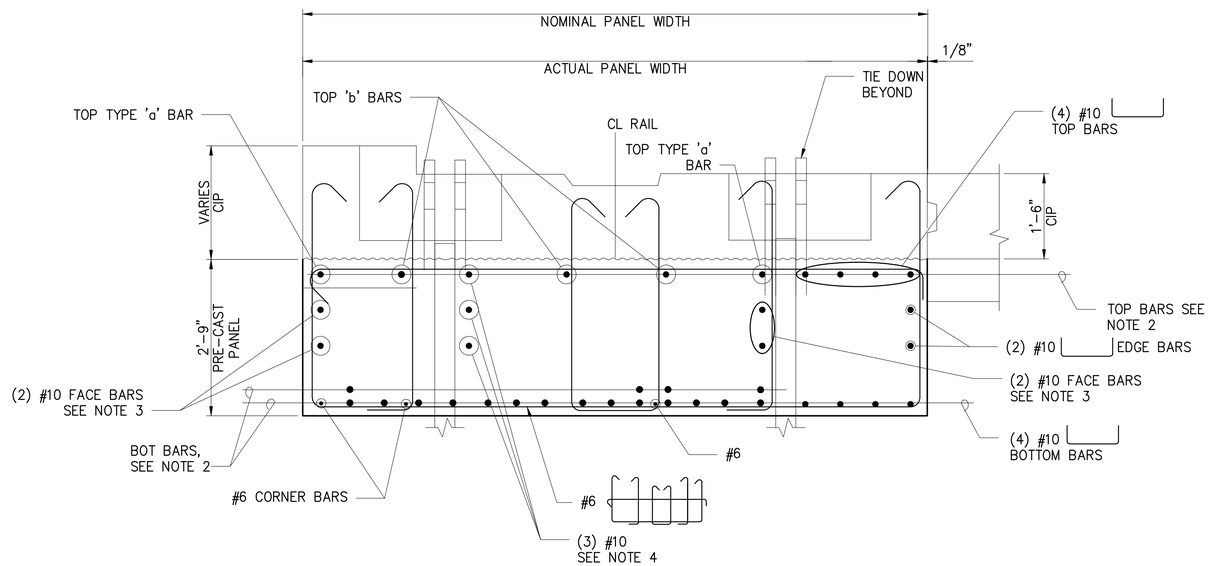
A
S27.37

CRANE BEAM PANEL TYPE L SECTION P8D

3/4"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPE, P8D
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
4. PROVIDE AND COORDINATE (3) #10 BARS @ PANEL P8D TYPE 'R' AT BENT 15 TO SPLICE WITH FACE BARS FROM PANEL P8G. THESE BARS NOT REQUIRED AT OTHER P8D PANELS
5. ALIGN 'c' BARS W/ADJACENT PANEL BARS FOR LAP SPLICE



C
S27.37

CRANE BEAM PANEL SECTION TYPE 'R' P8D

3/4"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

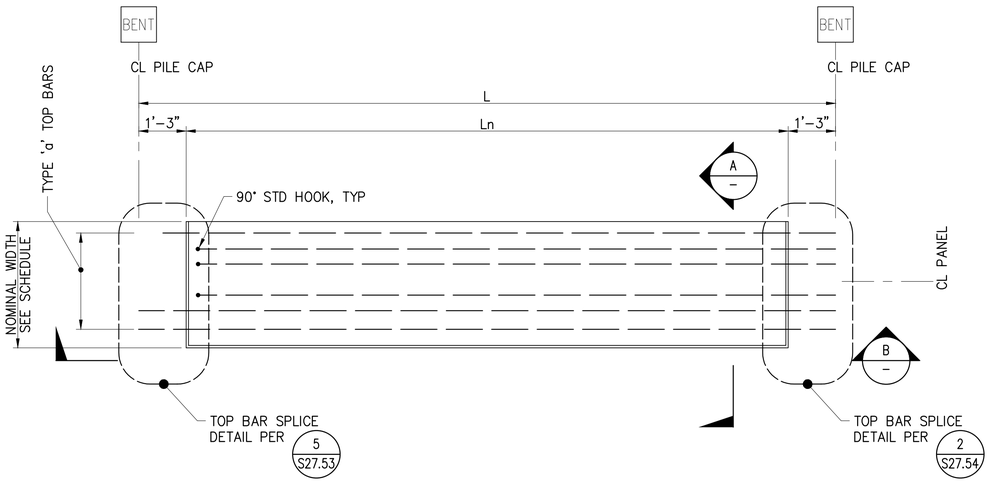
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 38

6552
S27.38
SH 333 OF 499

SEK CHECKED BY DATE			
TAH			
DIRECTOR ENG. DATE	PROJ. ENGR DATE		
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

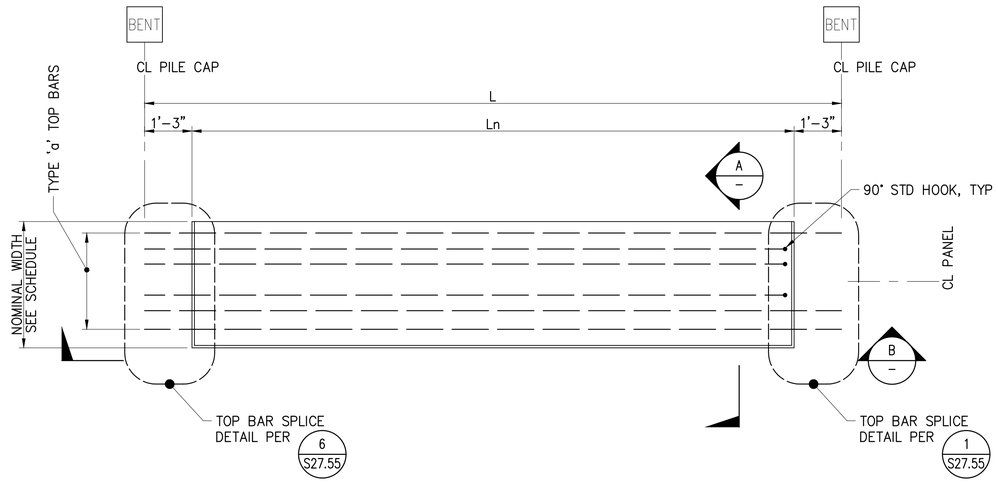
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.38



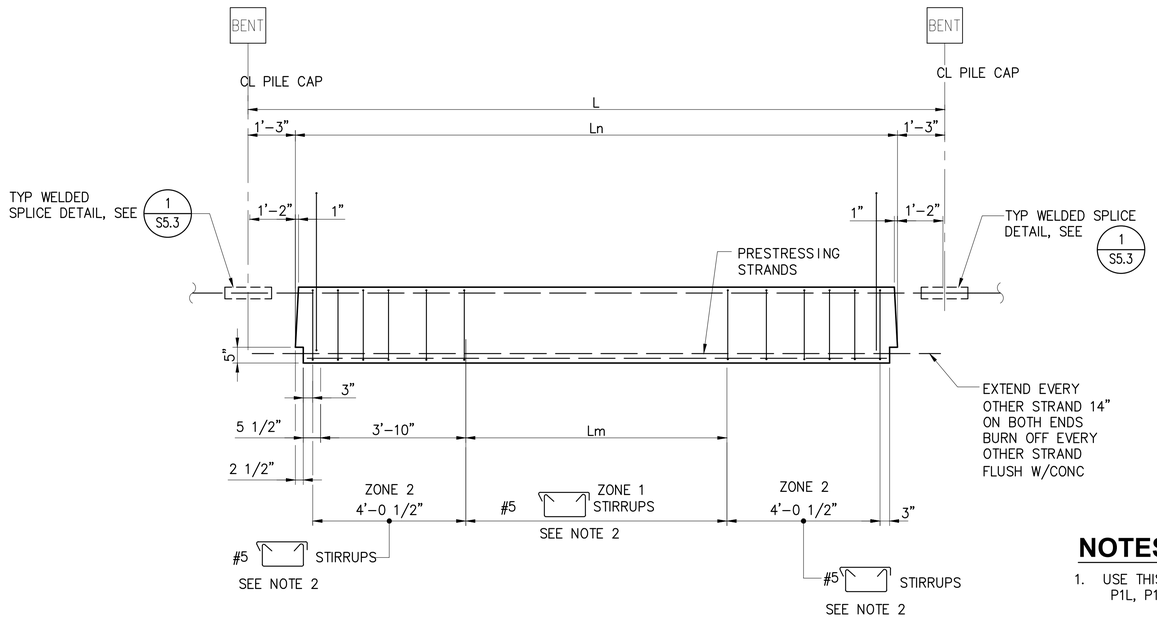
1 DECK PANEL PLAN - PANEL: P1L

S26.1 – S26.5 1/2"=1'-0"



1 DECK PANEL PLAN - PANEL: P1M

S26.1 – S26.5 1/2"=1'-0"

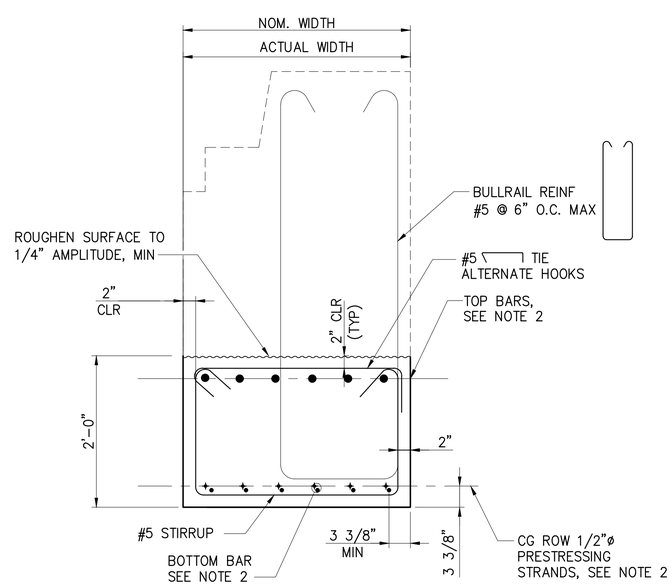


B DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P1L, P1M
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5



A DECK PANEL SECTION

1"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

MARK:	REVISION:	BY:	APPR:	DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 39

SEK			
CHECKED BY DATE			
TAH			
PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

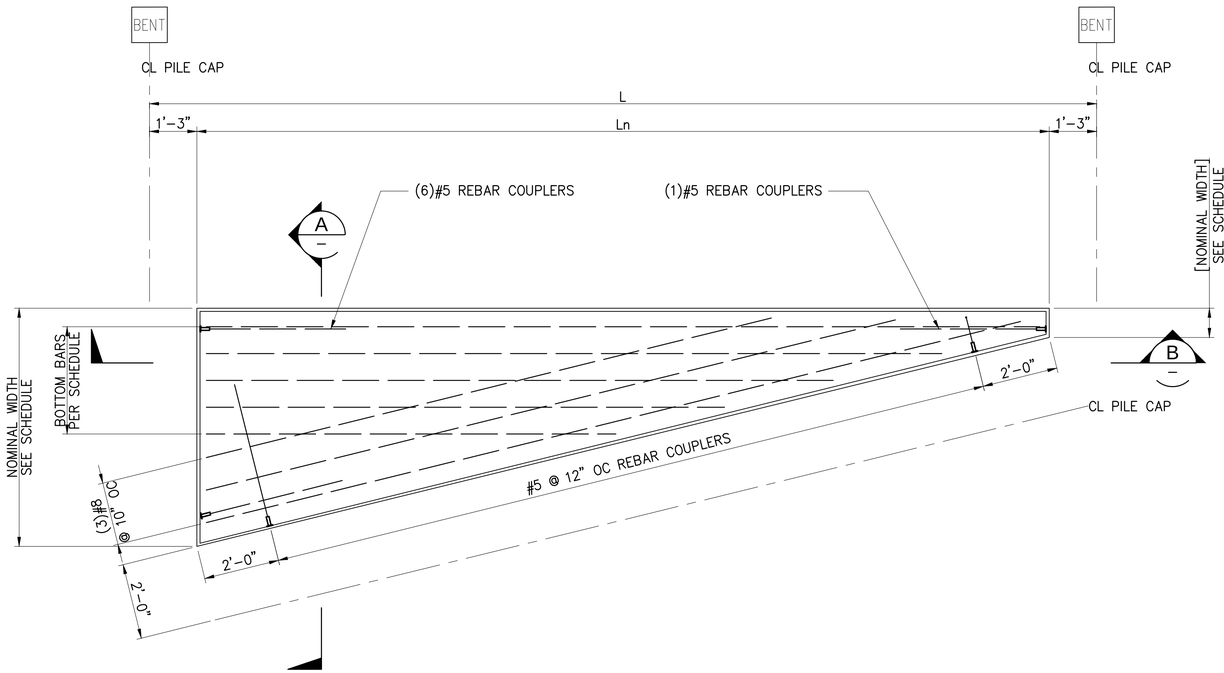
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S27.39
SH 334 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

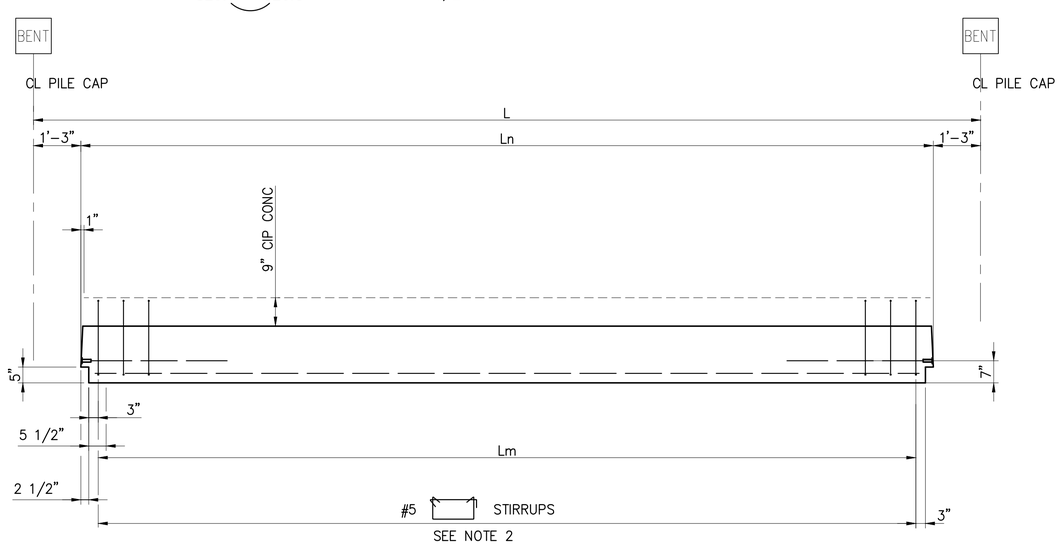
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S27.39



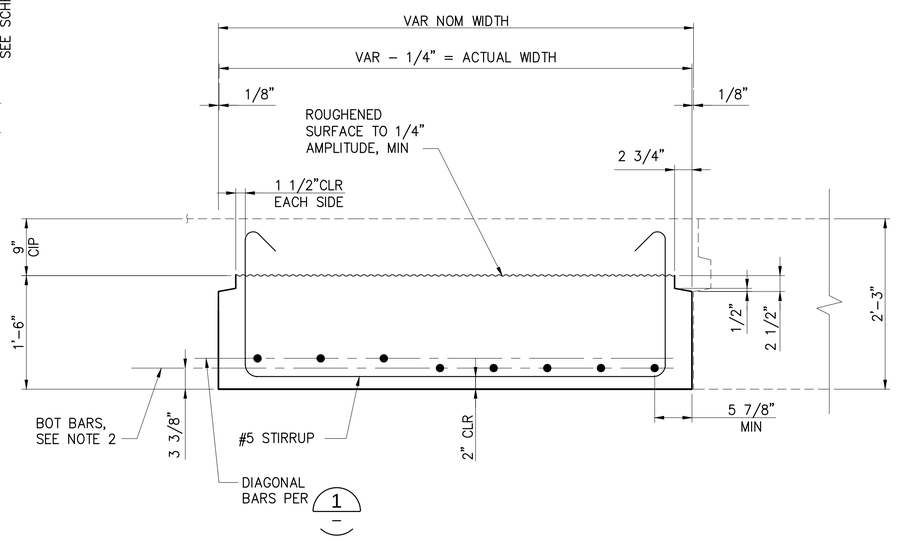
DECK PANEL PLAN

1 — S26.1 – S26.5 — 1/2"=1'-0"



DECK PANEL ELEVATION

B — 1/2"=1'-0"



DECK PANEL SECTION

A — 1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P53
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE
ONE SITCUM PLAZA TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 40

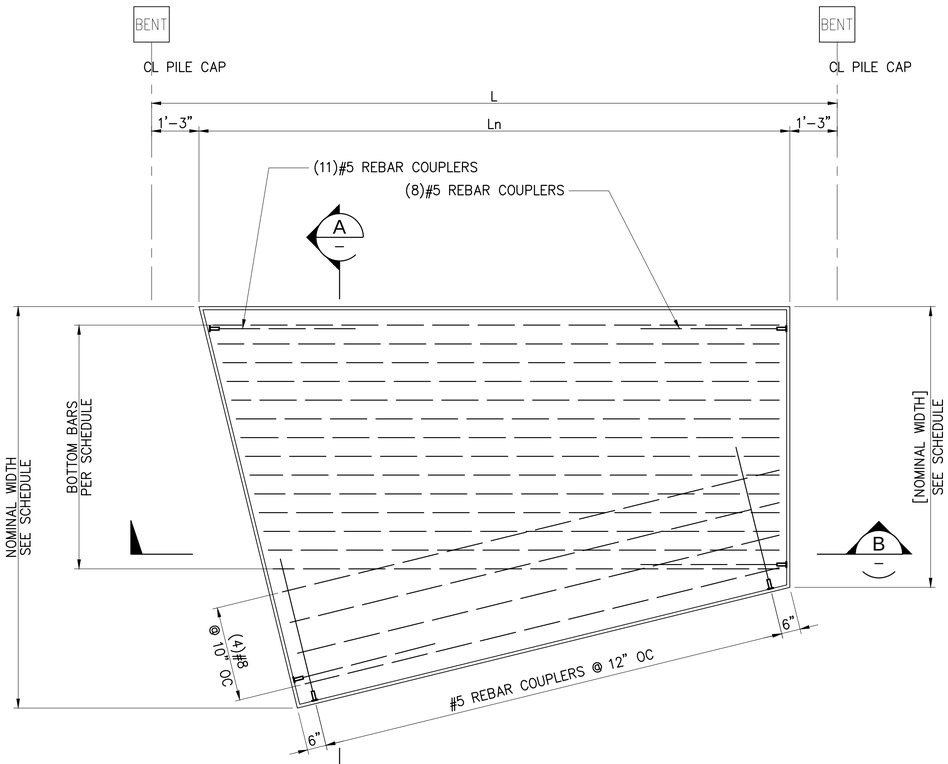
6552
S27.40
SH 335 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

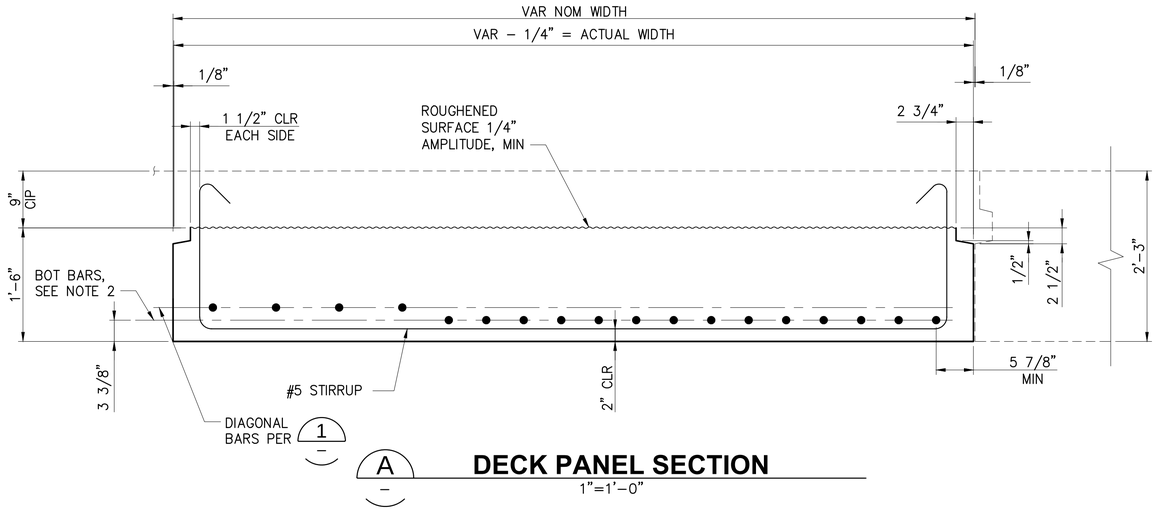
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.40



1 S26.1 – S26.5

DECK PANEL PLAN

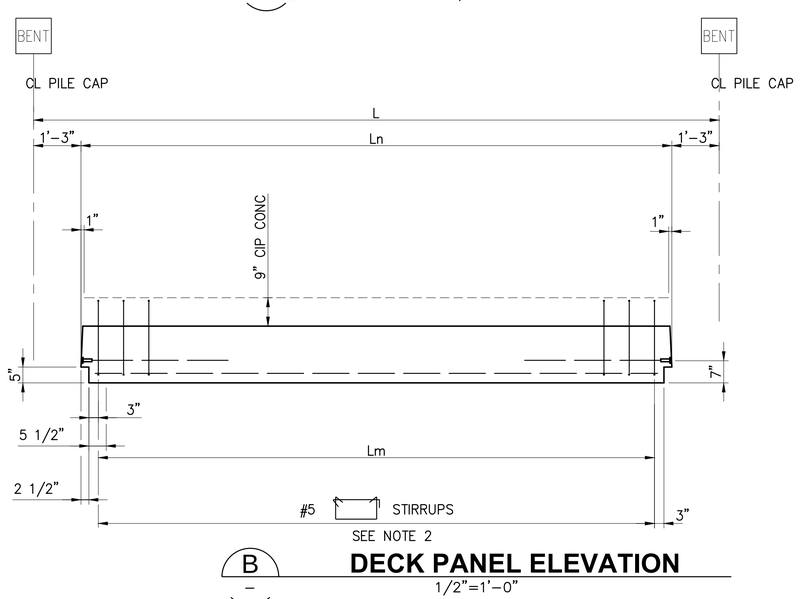
1/2"=1'-0"



A

DECK PANEL SECTION

1"=1'-0"



B

DECK PANEL ELEVATION

1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P51
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.41

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535053041

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY:

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 41

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S27.41
SH 336 OF 499

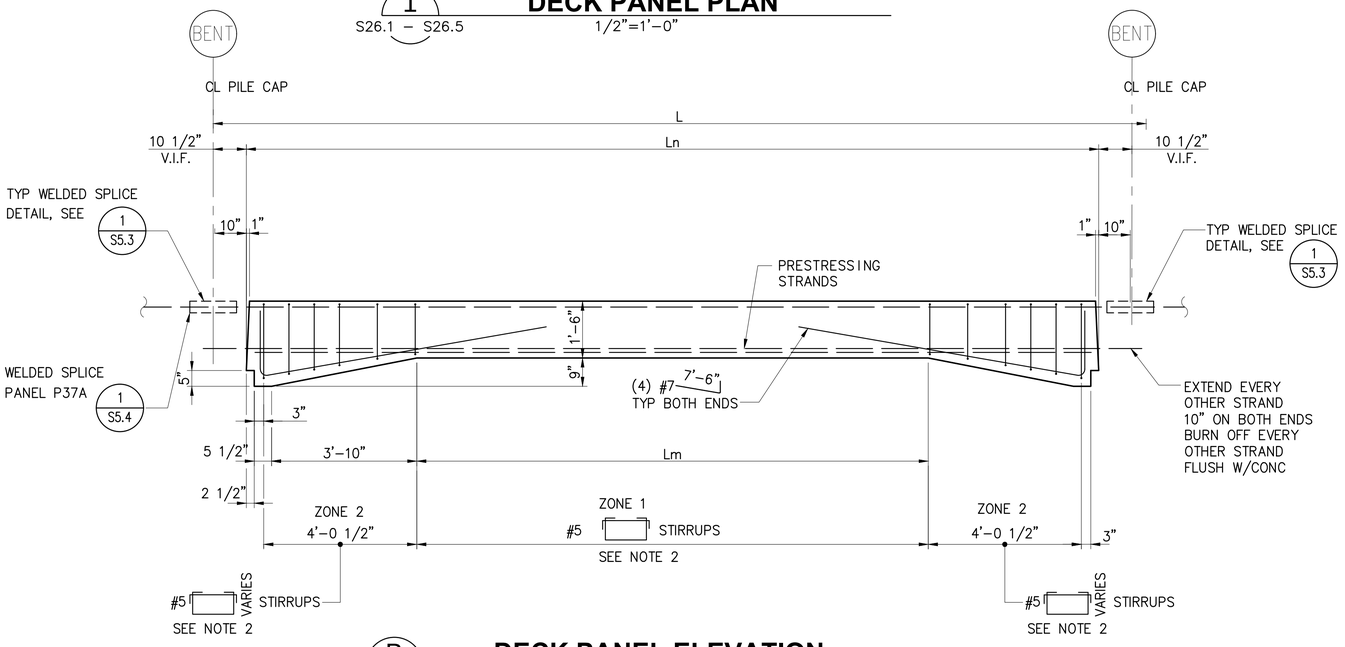
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



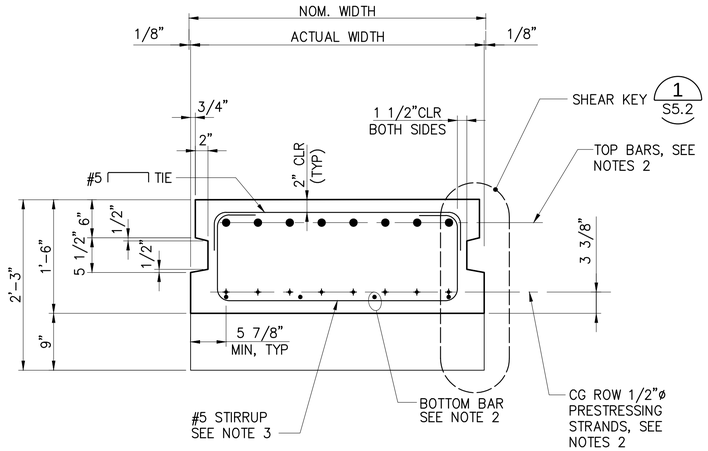
1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

1/2"=1'-0"



A DECK PANEL SECTION

1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P37, P37A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	CHECKED BY	DATE
	SEK	
	TAH	

DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
		tlemons	Jul 20, 2018

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 42

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

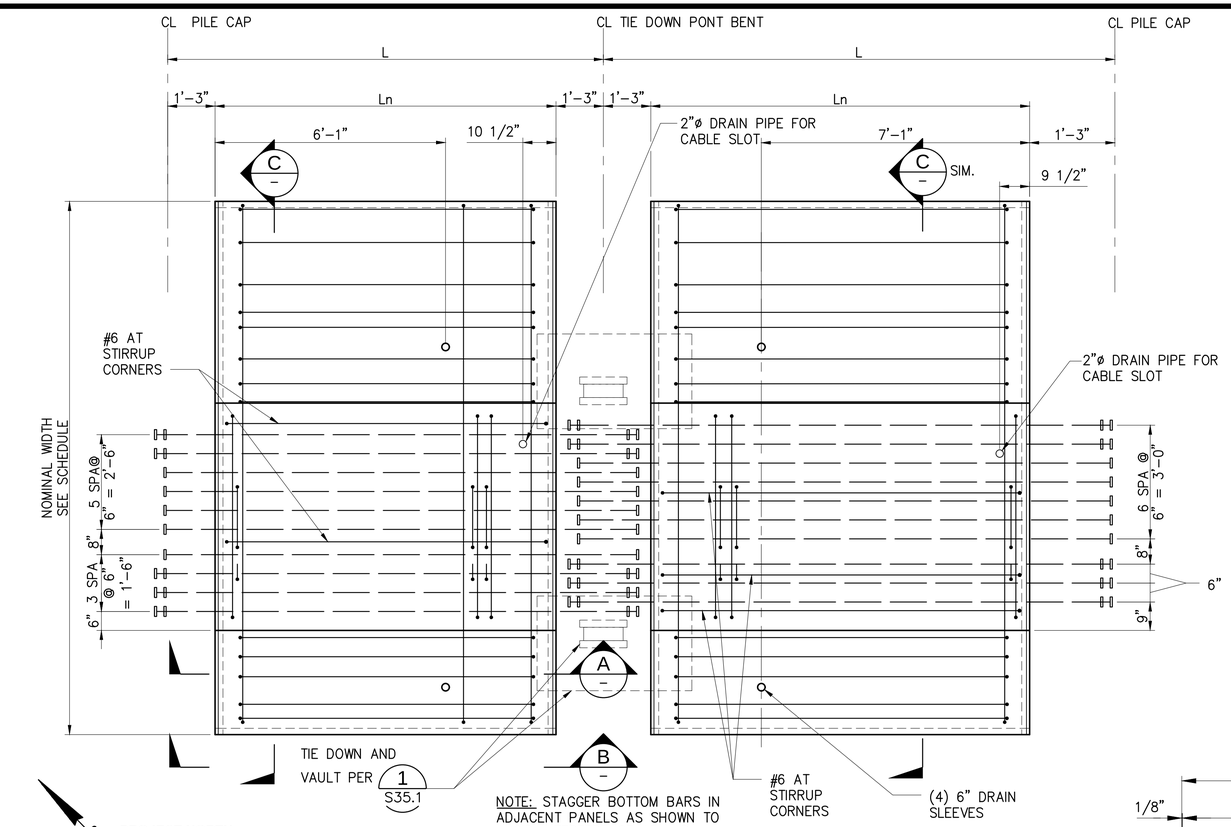
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S27.42
SH 337 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.42

BINDING EDGE



NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

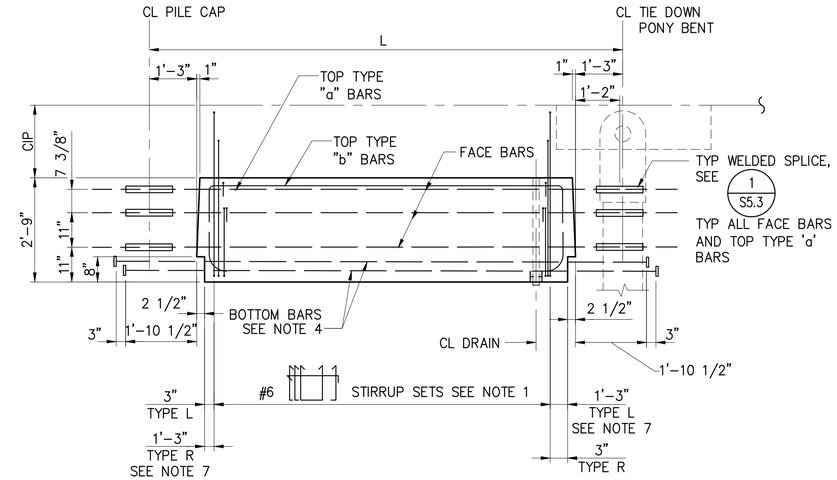
P2K TYPE L

P2M TYPE R

ROUGHENED SURFACE TO 1/4" AMPLITUDE, MIN

NOTES:

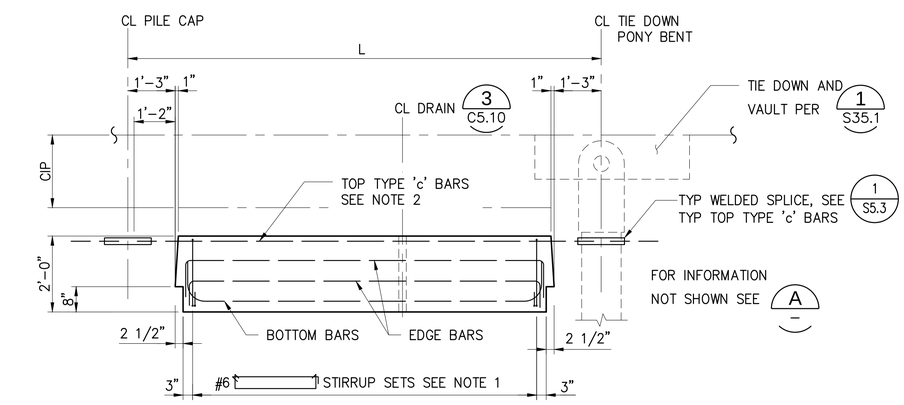
1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. PROVIDE 'c' BARS TO MATCH SIZE AND NUMBER W/ADJACENT P1A, P1, & P3A PANEL BARS FOR WELDED SPLICE
3. USE THIS SHEET FOR DECK PANEL TYPES P2K & P2M
4. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
5. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
6. 2"ø FLEX PVC PIPE DRAIN WITH COUPLERS TO BE PLACED AT TOP AND BOTTOM OF PIPE
7. PROVIDE DOUBLE STIRRUP SET AT THIS END



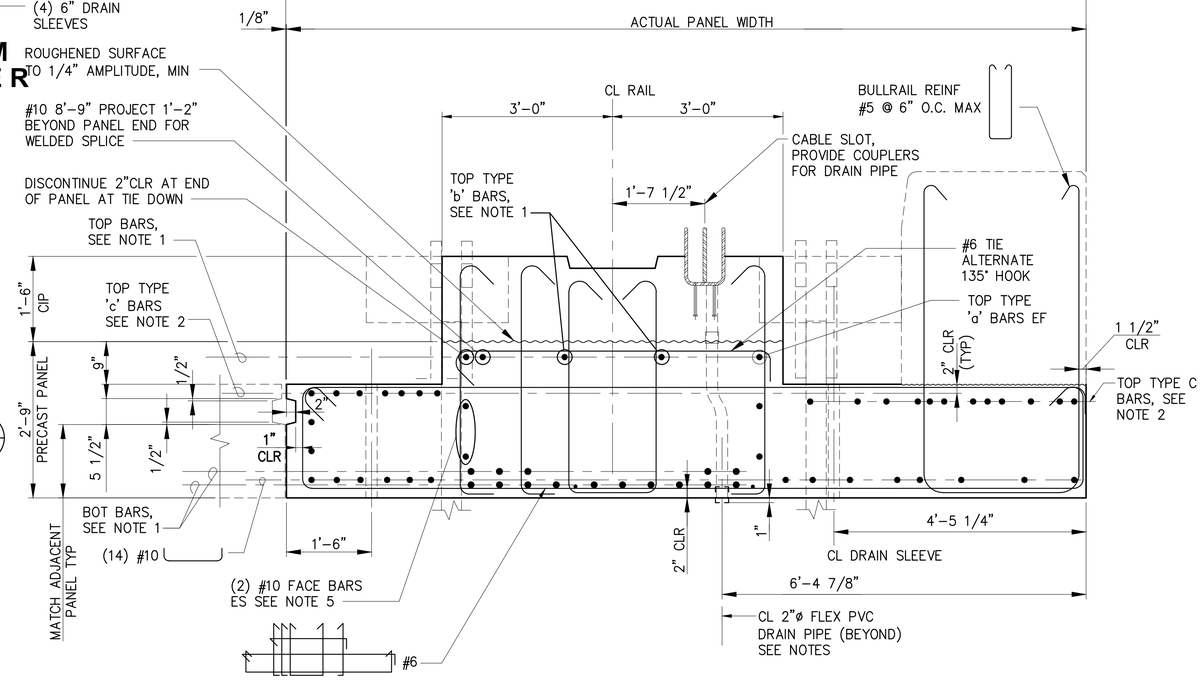
A — **CRANE BEAM PANEL SECTION**
1/2"=1'-0"

CRANE BEAM - P2D TYPE "L" AND P2G TYPE "R" PANEL PLAN

1 — S26.1 – S26.5 — 1/2"=1'-0"



B — **CRANE BEAM PANEL ELEVATION**
1/2"=1'-0"



C — **WATER SIDE CRANE BEAM PANEL TYPE "L" SECTION, P2K & P2M**
3/4"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S27.43

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

CHECKED BY	DATE
SEK	
TAH	

DIRECTOR ENG.	DATE
PROJ. ENGR	DATE

tlemons Jul 20, 2018

PRINTED BY:	tlemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
DRAWING SCALE:	AS NOTED
	TACOMA, WA 98401-1837

APPROVED:

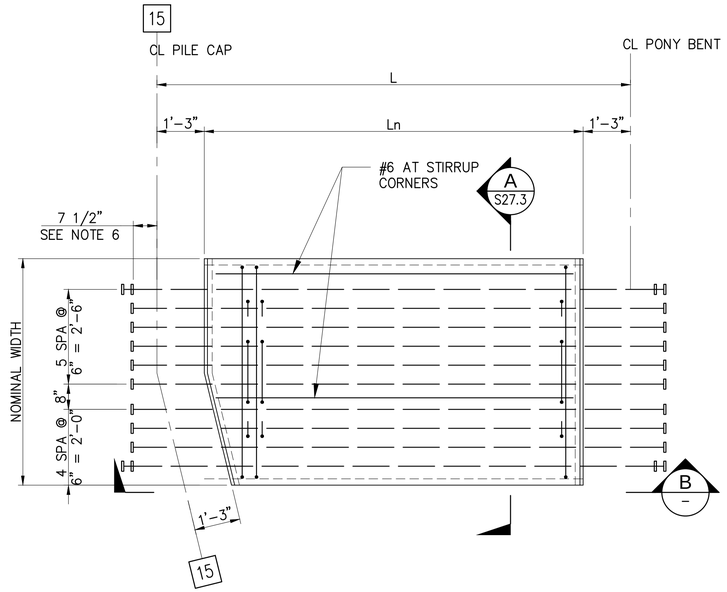
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 43

6552
S27.43
SH 338 OF 499

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION: 27
			PORT ADDRESS: ONE SITCUM PLAZA
			DRAWING SCALE: AS NOTED
			TACOMA, WA 98401-1837

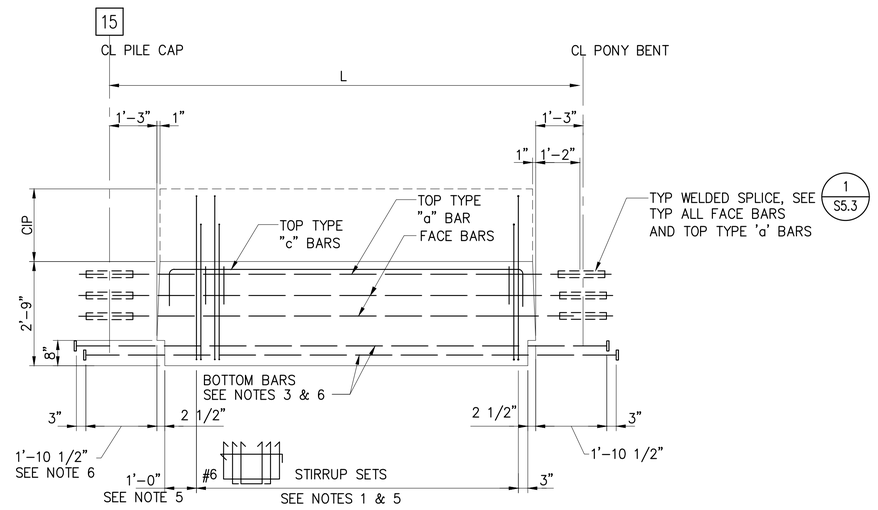
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



CRANE BEAM
1 TYPE "L" PANEL P8G PLAN
S26.1 – S26.5 3/4"=1'-0"

NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.



CRANE BEAM P8G
B PANEL ELEVATION
– 1/2"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P8G
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS
5. PROVIDE DOUBLE SET OF STIRRUPS @ THIS SIDE OF PANEL
6. ALL BOTTOM BARS TO EXTEND OUT OF PANEL AT BENT 15 FLUSH.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

	SEK		
	CHECKED BY		DATE
	TAH		
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 44

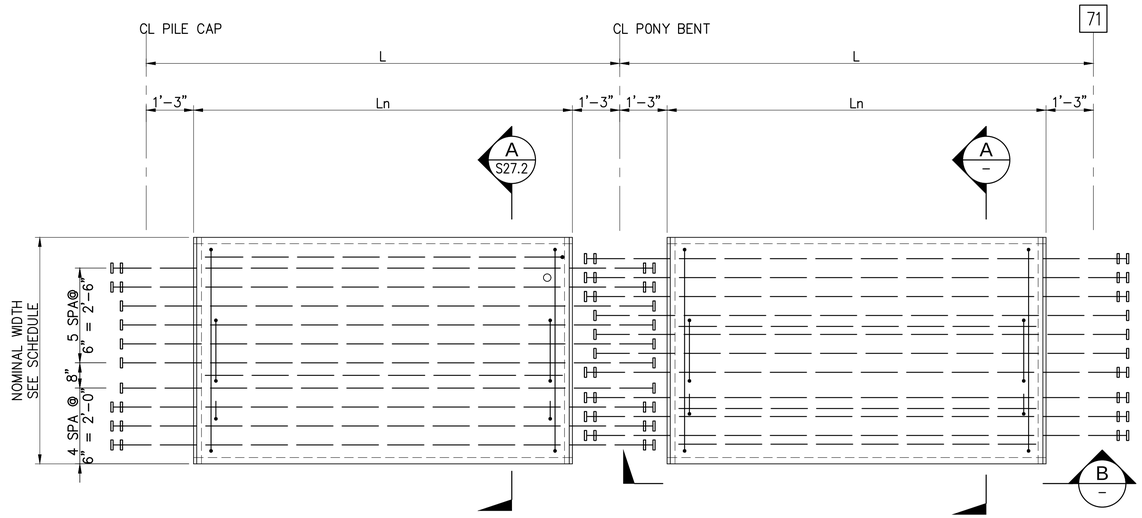
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S27.44
SH 339 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.44

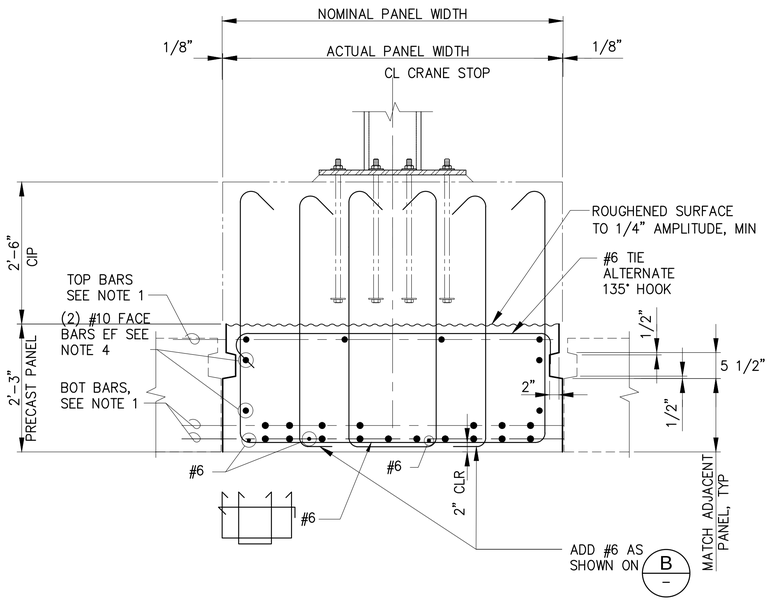


TYPE L PANEL P2
(SHOWN FOR REFERENCE)

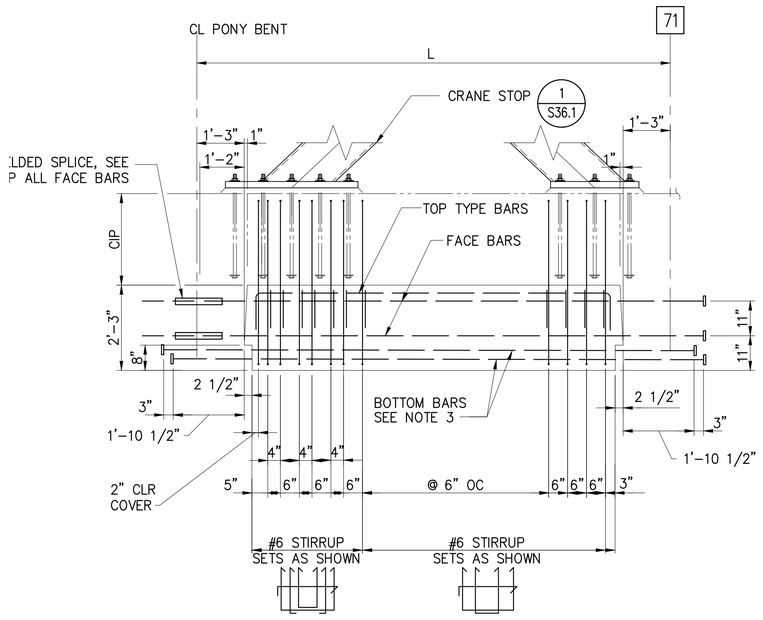
NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

TYPE R PANEL P2A

CRANE BEAM
1 TYPE "L" & "R" PANEL PLAN
S26.1 – S26.5 1/2"=1'-0"



TYPICAL CRANE BEAM PANEL
TYPE "L" SECTION P2A
A
S27.27 – S27.29 3/4"=1'-0"



TYPICAL TYPE "R" CRANE BEAM PANEL ELEVATION
B
–
1/2"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P2A
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS. ALIGN FACE BARS TO SPLICE WITH FACE BARS FROM PANEL TYPE P2. FACE BARS SHALL BE HEADED AT BENT 71

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.45

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	4/28/2016

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

APPROVED:

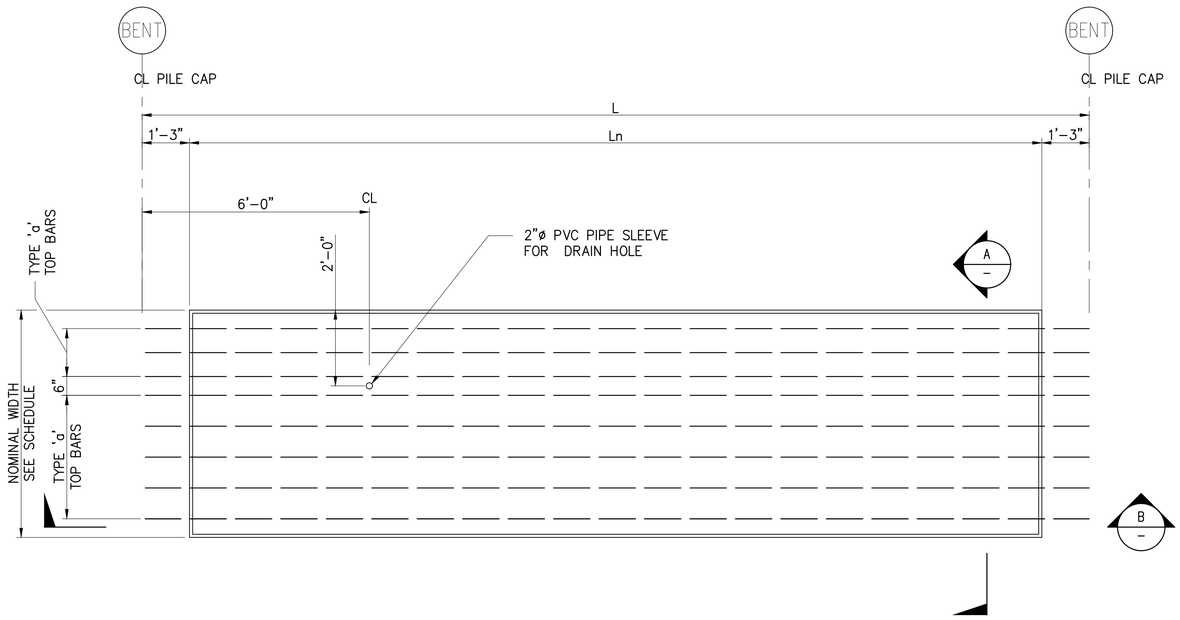
DIRECTOR ENG. DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

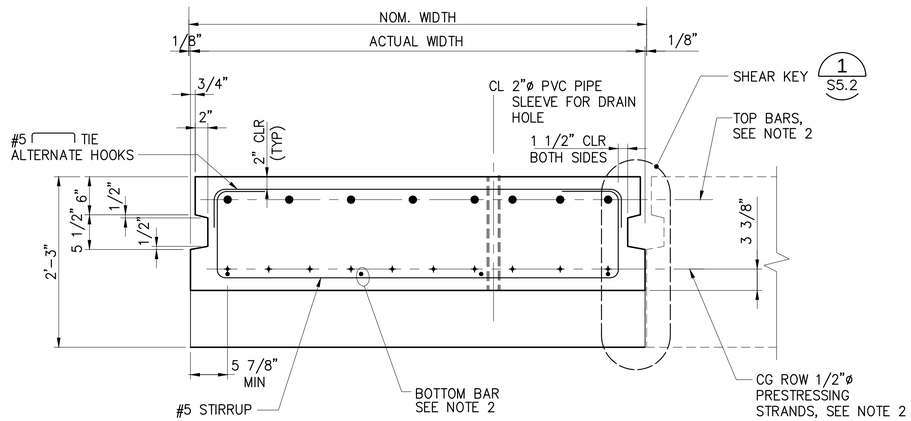
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 45

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.45
SH 340 OF 499

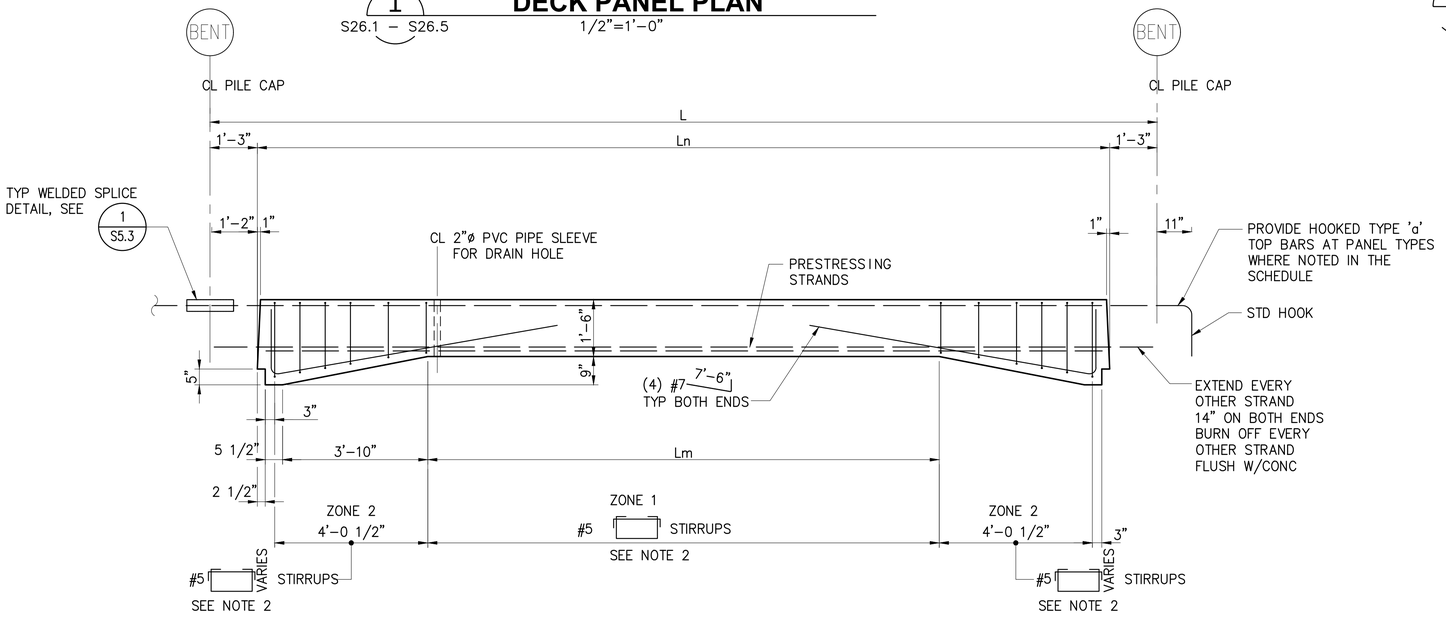
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION





1 DECK PANEL PLAN

S26.1 – S26.5 1/2"=1'-0"



B DECK PANEL ELEVATION

– 1/2"=1'-0"

A DECK PANEL SECTION

– 1"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES: P20
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 46

6552
S27.46
SH 341 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

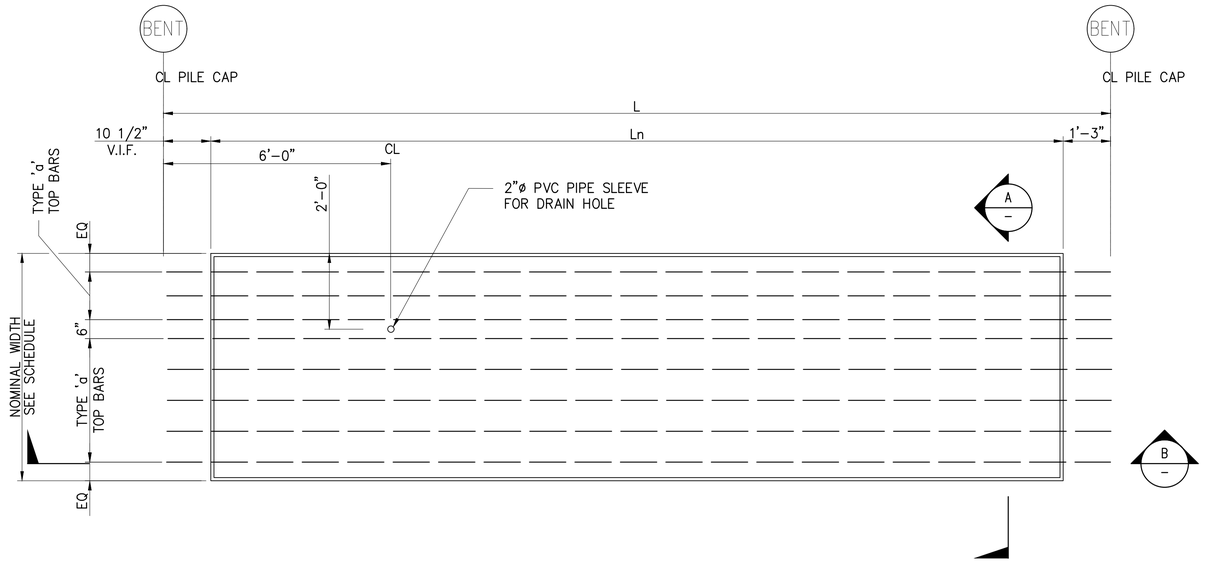
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

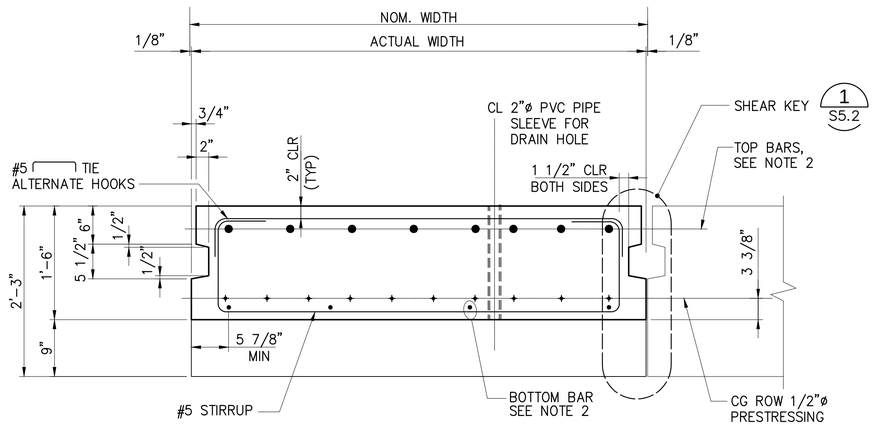
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.46

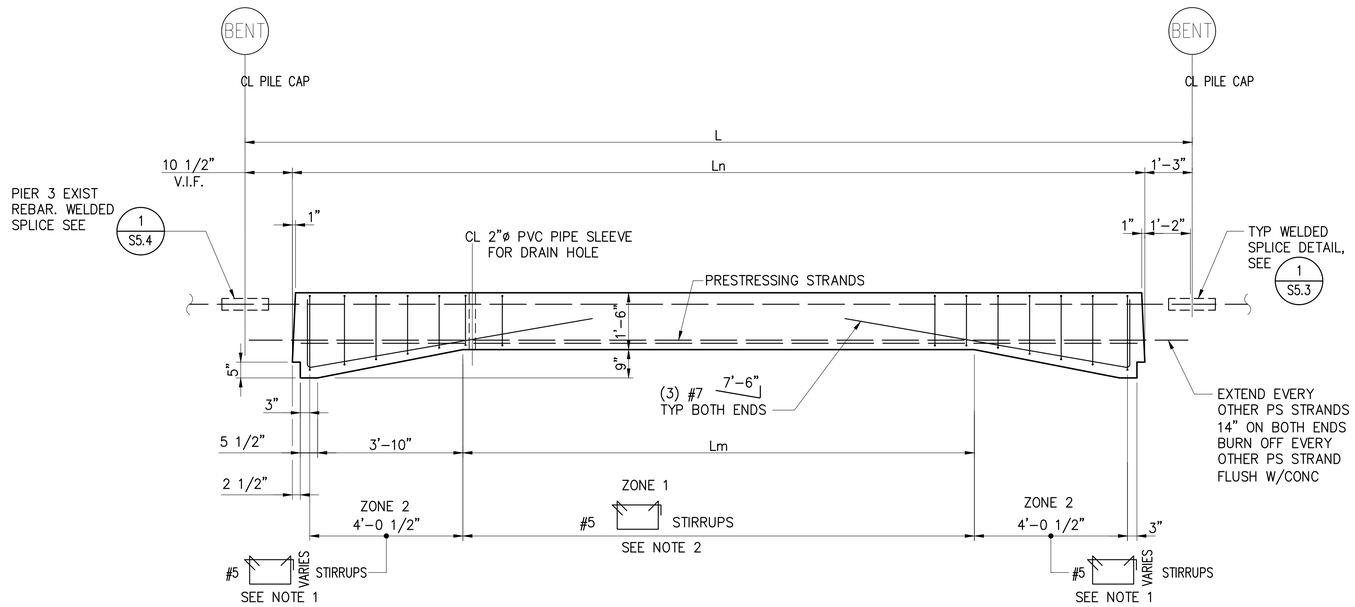
BINDING EDGE



1 / S26.1 – S26.5 **DECK PANEL PLAN**
1/2"=1'-0"



A / – **DECK PANEL SECTION**
1"=1'-0"



B / – **DECK PANEL ELEVATION**
1/2"=1'-0"

NOTES:

1. USE THIS SHEET FOR DECK PANEL TYPES:
   P20A
2. FOR DECK PANEL SCHEDULE, SEE S26.1 – S26.5
3. TOP BAR LAYOUT SHALL MATCH EXIST DECK PANEL TOP BAR LOCATION. FIELD VERIFY EXIST DECK PANEL TOP BAR PRIOR TO PANEL FABRICATION.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE	CHECKED BY SEK DATE		
PRINTED BY: tlemons Jul 20, 2018	PROJ. ENGR TAH DATE		
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED		

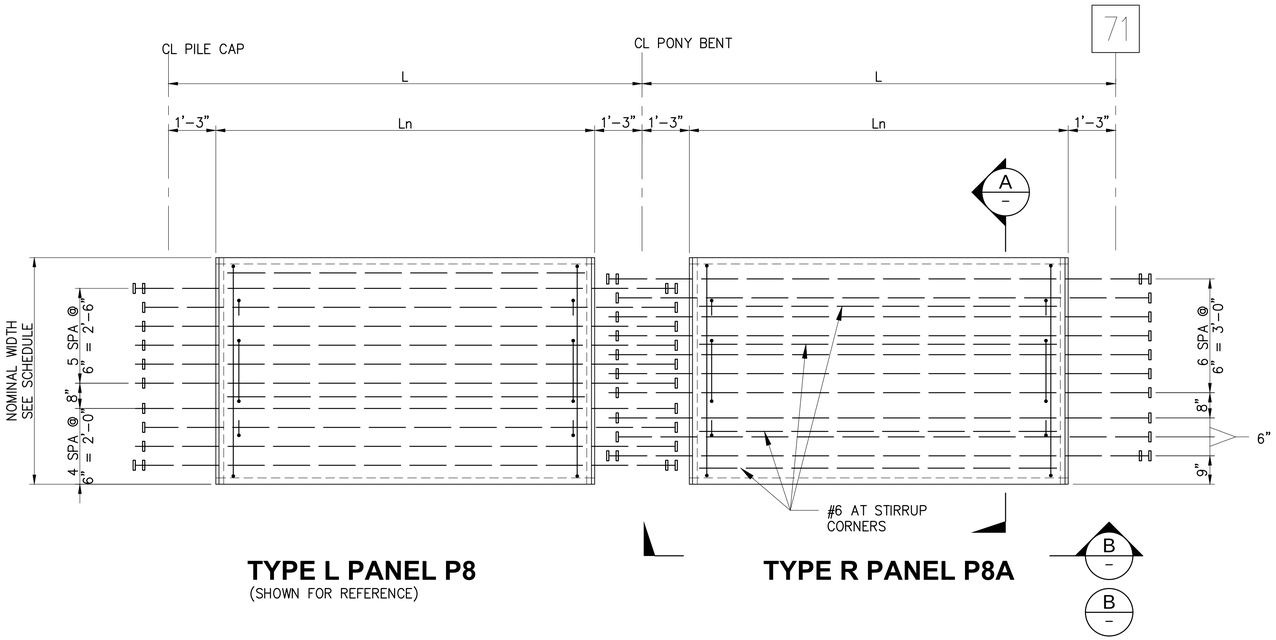
PIER 4 PHASE 2 RECONFIGURATION
DECK PANEL DETAILS - SHEET 47

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.47
SH 342 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.47

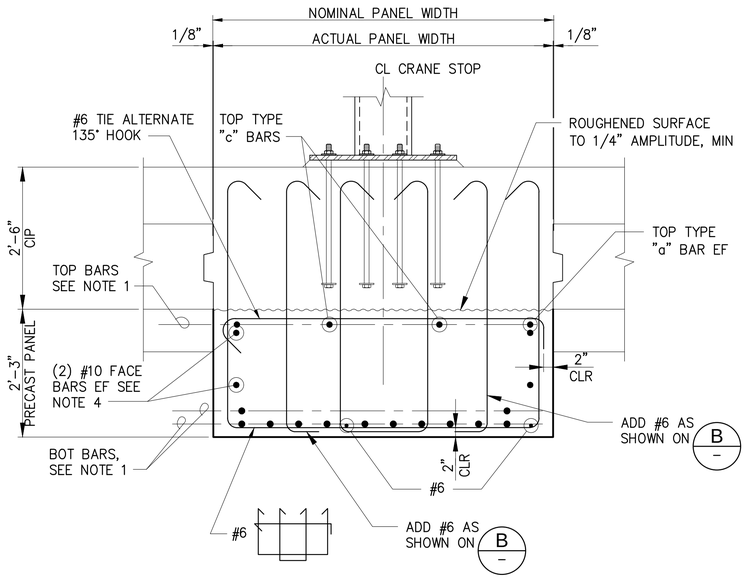


TYPE L PANEL P8
(SHOWN FOR REFERENCE)

TYPE R PANEL P8A

CRANE BEAM TYPE 'L & R' PANEL PLAN

1 / S26.1 – S26.5 — 1/2"=1'-0"

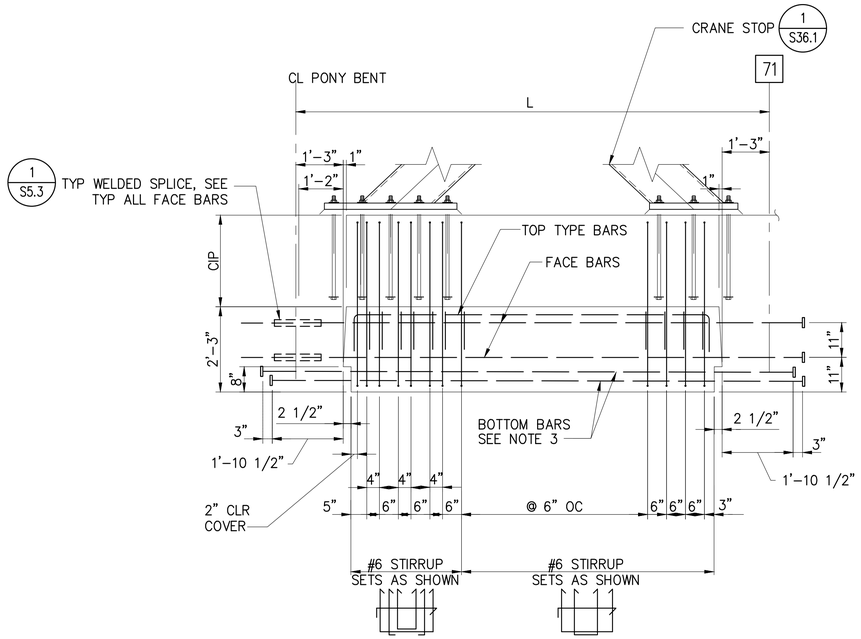


CRANE BEAM PANEL TYPE 'R' SECTION P8A

A / – — 3/4"=1'-0"

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P8A
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS. ALIGN FACE BARS TO SPLICE WITH FACE BARS FROM PANEL TYPE P2. FACE BARS SHALL BE HEADED AT BENT 71



B / – — 1/2"=1'-0"

DECK PANEL ELEVATION

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	4/28/2016

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 48

6552
S27.48
SH 343 OF 499

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

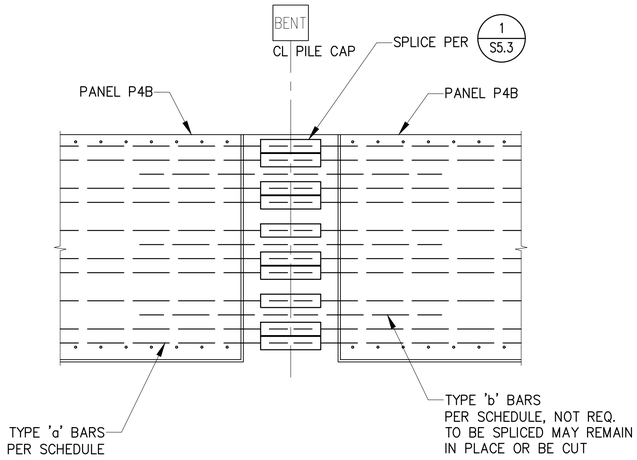
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

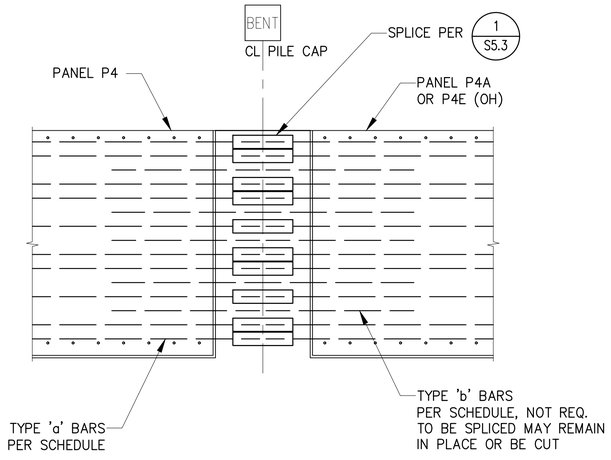
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.48

BINDING EDGE

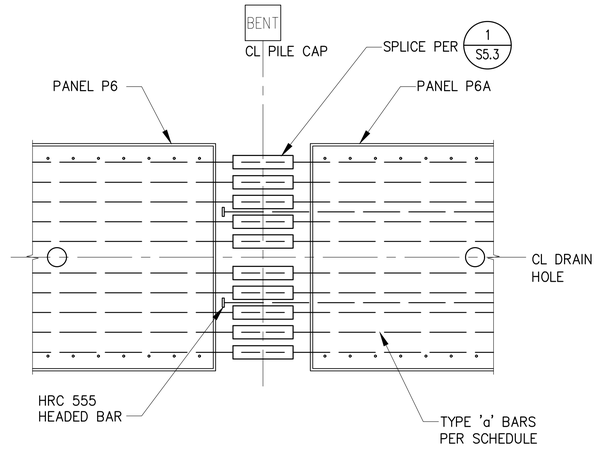


NOTES:
1. AT BENTS 40–43, (4) OF (10) TYPE 'a' BARS UTILIZE BAR SPLICE CONNECTIONS INSTEAD OF WELDED CLIPS.

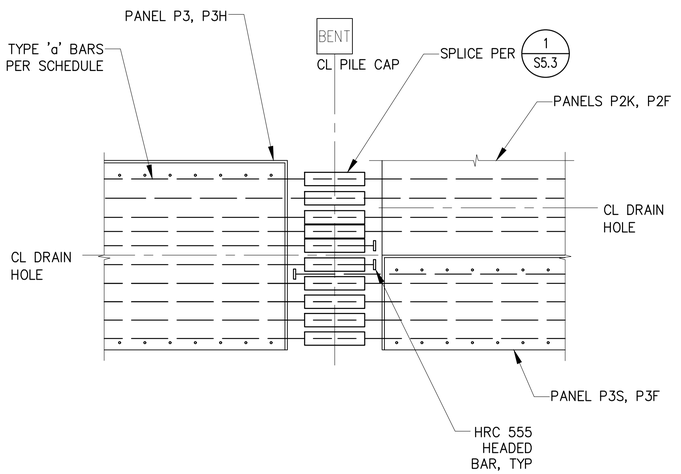
1 S27.13 TOP BAR SPLICE PLAN P4B - P4B
1/2"=1'–0"



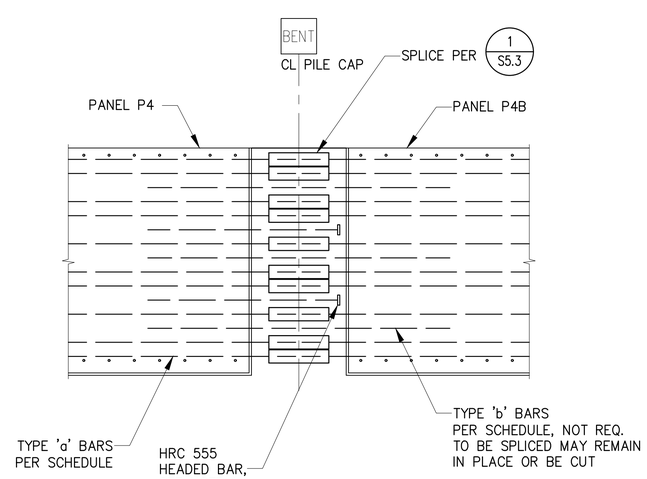
2 S27.13 TOP BAR SPLICE PLAN P4 - P4A - P4E
1/2"=1'–0"



3 S27.1 TOP BAR SPLICE PLAN PANELS P6 - P6A - P6B - P6E
1/2"=1'–0"

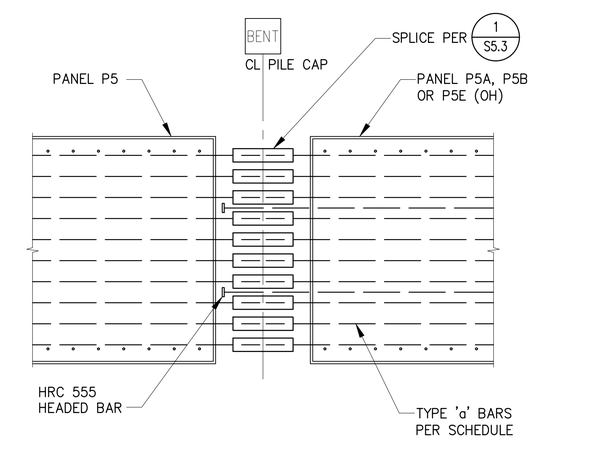


4 S27.11, S27.12 TOP BAR SPLICE PLAN P3 - P3H - P3S - P3F -P2K - P2F
1/2"=1'–0"



NOTES:
1. HEADED BARS MAY BE CUT AND WELDED BACK IN PLACE TO ALLOW STAGE 2 REBAR TO BE DROPPED IN PLACE AT BENTS 39 AND 44.

5 S27.13 TOP BAR SPLICE PLAN P4 - P4B
1/2"=1'–0"



6 S27.1 TOP BAR SPLICE PLAN P5 - P5A - P5B - P5E
1/2"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH DIRECTOR ENG. DATE
PROJ. ENGR DATE
tlemons Jul 20, 2018 PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:

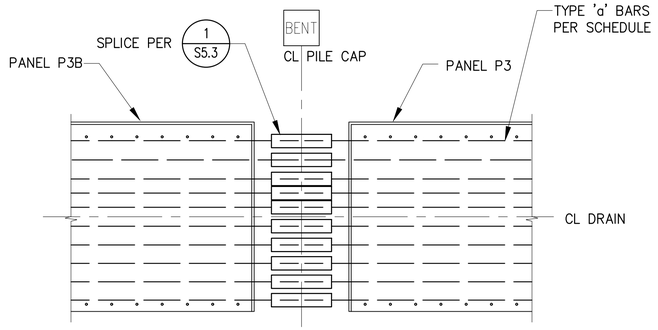
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 49

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S27.49
SH 344 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

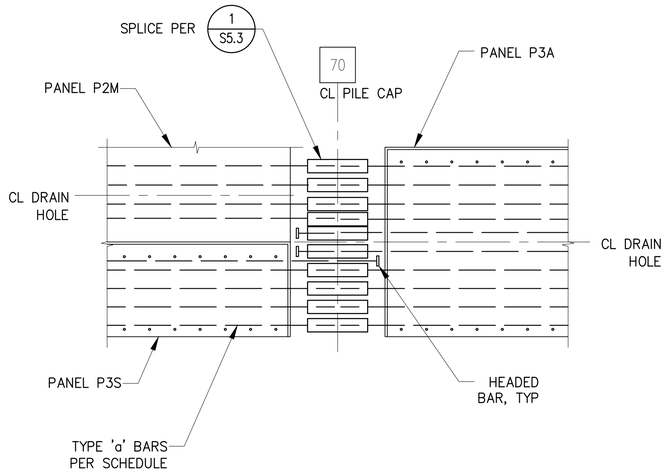
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S27.49



TOP BAR SPLICE PLAN
PANELS P3B - P3

1 / S27.12

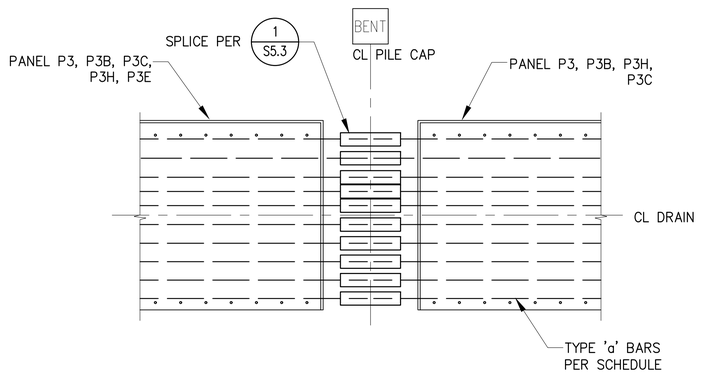
1/2"=1'-0"



TOP BAR SPLICE PLAN
PANELS P2M - P3S - P3A

2 / S27.11

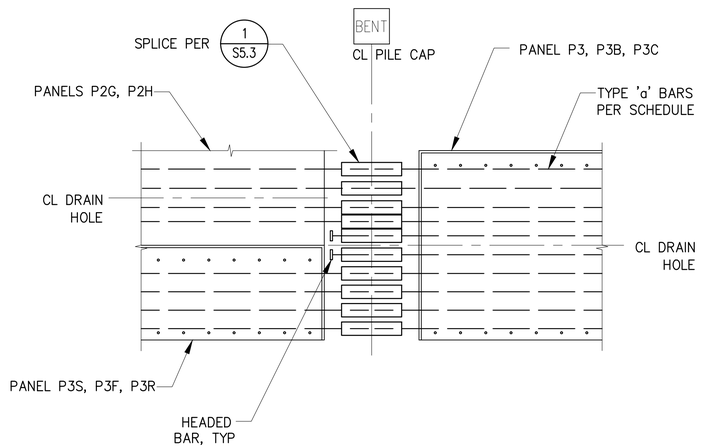
1/2"=1'-0"



TOP BAR SPLICE PLAN PANELS
P3 - P3B - P3C - P3H - P3E

3 / S27.12

1/2"=1'-0"



TOP BAR SPLICE PLAN PANELS
P2G - P2H - P3 - P3B - P3C

4 / S27.11

1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.50

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	3/2/17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY: DATE

DIRECTOR ENG. DATE

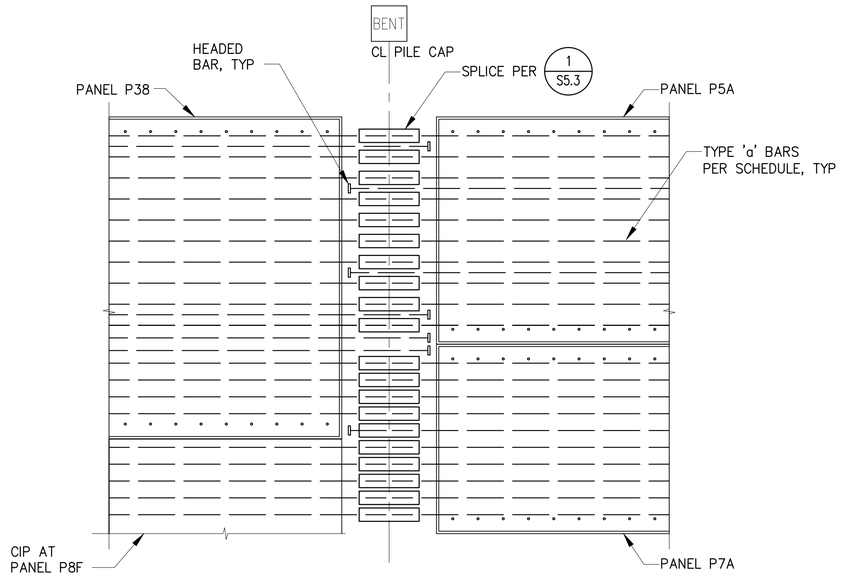
APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 50

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

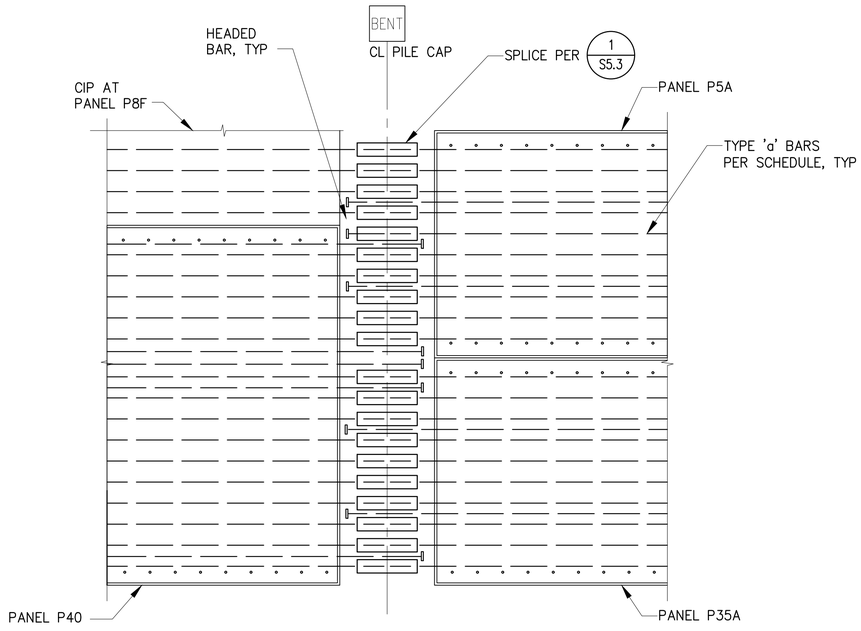
6552
S27.50
SH 345 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



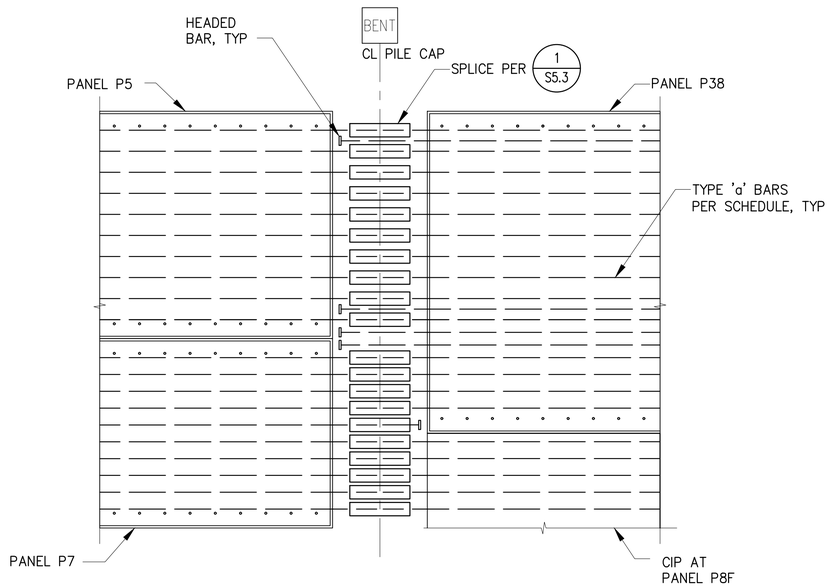
TOP BAR SPLICE PLAN
1 PANELS P38 - P5A - P7A - P8F

S27.15, S27.31 1/2"=1'-0"



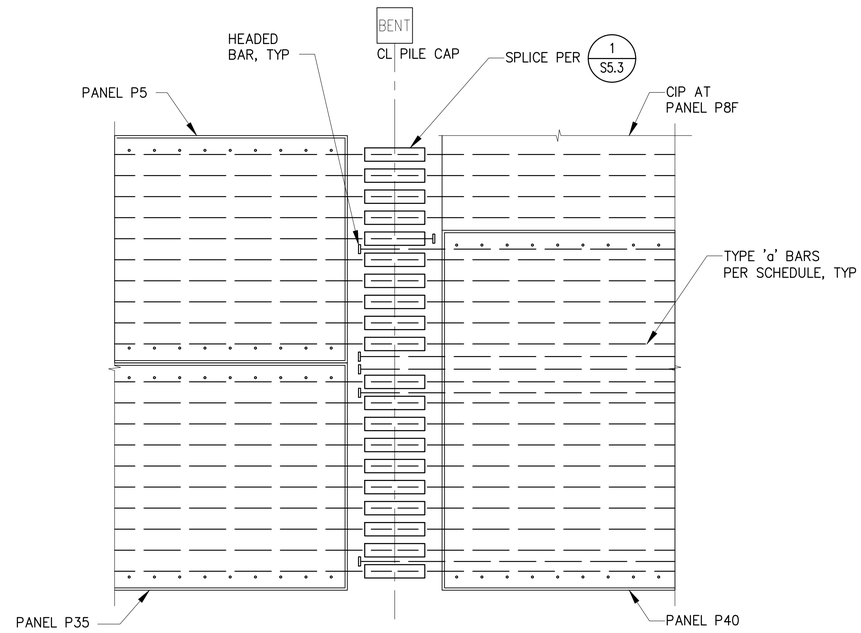
TOP BAR SPLICE PLAN
2 PANELS P5A - P35A - P40 - P8F

S27.32 1/2"=1'-0"



TOP BAR SPLICE PLAN
3 PANELS P5 - P38 - P8F - P7

S27.15, S27.31 1/2"=1'-0"



TOP BAR SPLICE PLAN
4 PANELS P5 - P35 - P8F - P40

S27.32 1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.51

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

	SEK	
	CHECKED BY	DATE
	TAH	
DIRECTOR ENG.	DATE	PROJ. ENGR
PRINTED BY:	tlemons	Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

APPROVED:

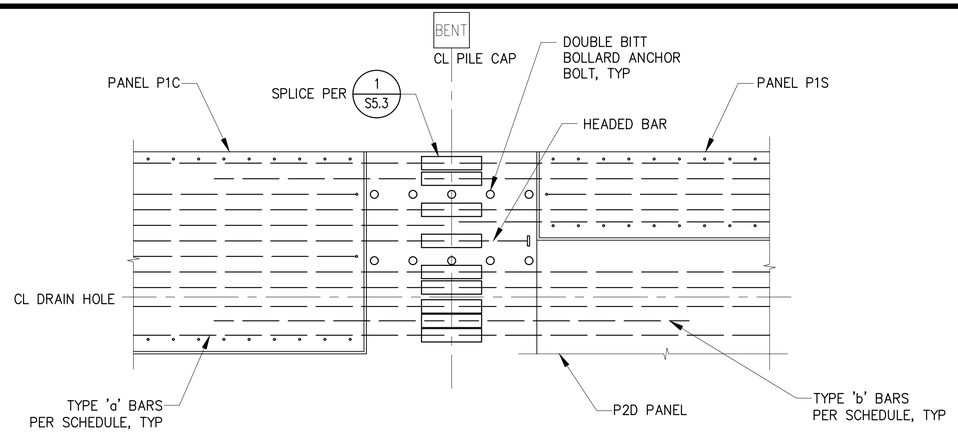
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 51

CONT/CONS:	0701136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

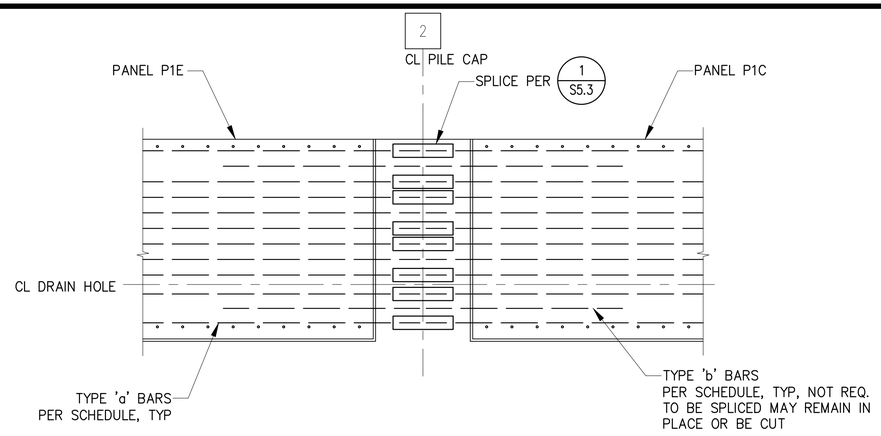
6552
S27.51
SH 346 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



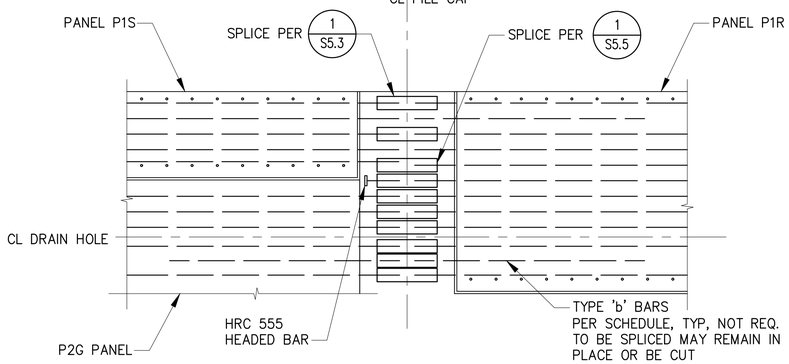
TOP BAR SPLICE PLAN PANELS P1C - P1S - P2D

1 S27.7A, S27.16A — 1/2"=1'-0"



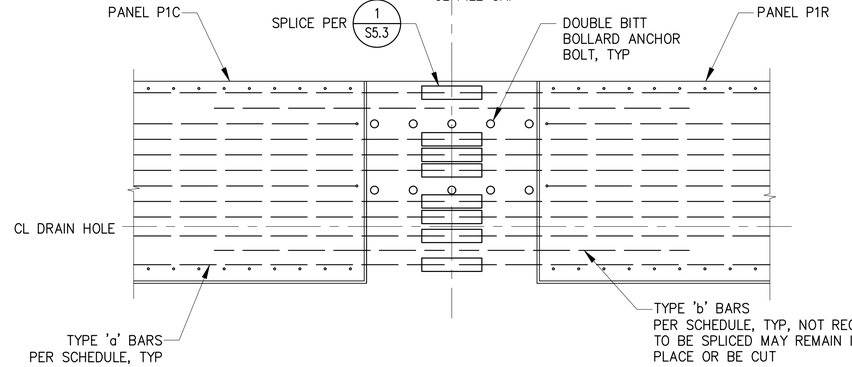
TOP BAR SPLICE PLAN PANELS P1E - P1C

2 S27.7A — 1/2"=1'-0"



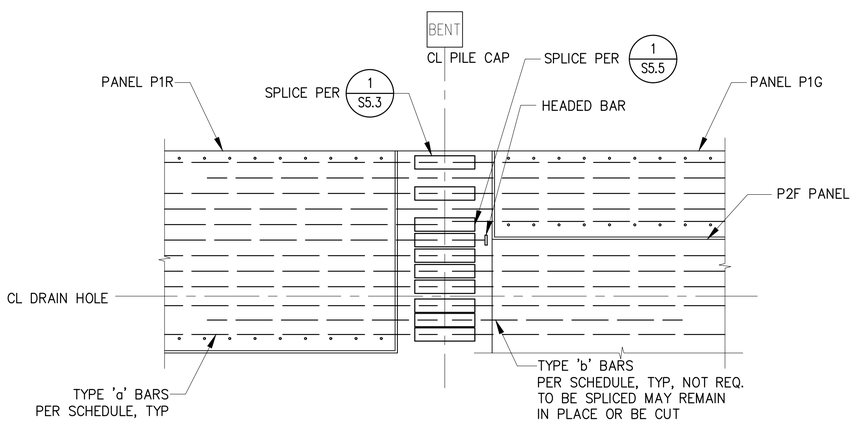
TOP BAR SPLICE PLAN PANELS P1S - P1R - P2G

3 S27.7A, S27.16A — 1/2"=1'-0"



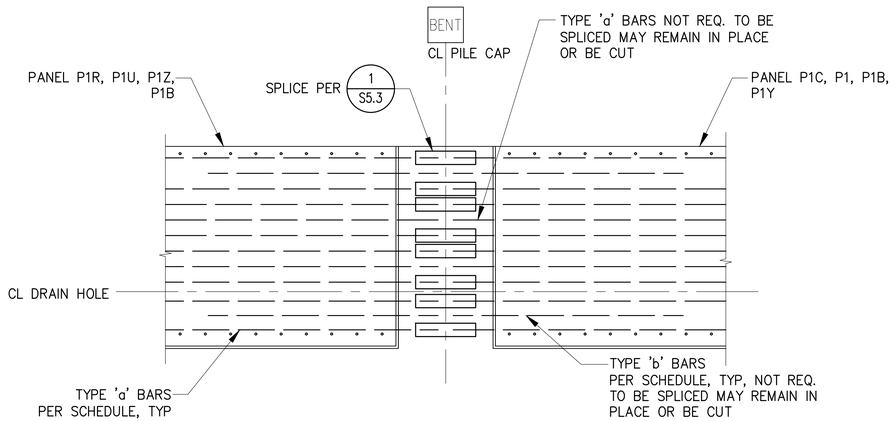
TOP BAR SPLICE PLAN PANELS P1C - P1R

4 S27.7A — 1/2"=1'-0"



TOP BAR SPLICE PLAN PANELS P1R - P1G - P2F

5 S27.7A, S27.16A — 1/2"=1'-0"



TOP BAR SPLICE PLAN PANELS P1R-P1U-P1Z-P1B-P1Y-P1C-P1

6 S27.7, S27.8, S27.7B — 1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.52

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535563401

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

tlemons Jul 20, 2018
PRINTED BY: tlemons Jul 20, 2018

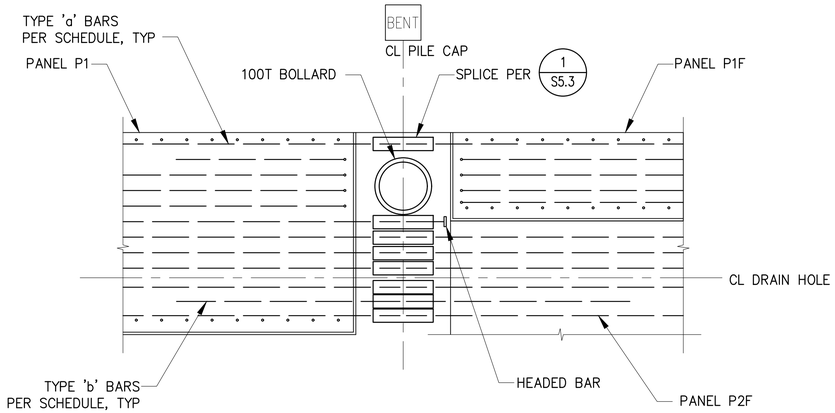
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 52

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

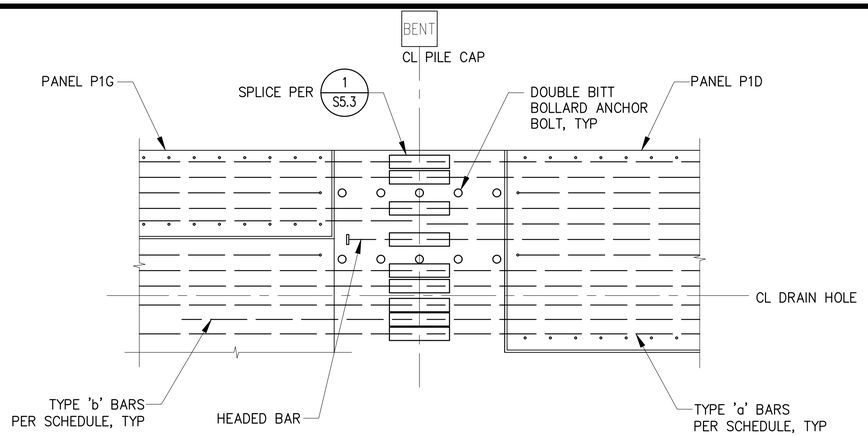
6552
S27.52
SH 347 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



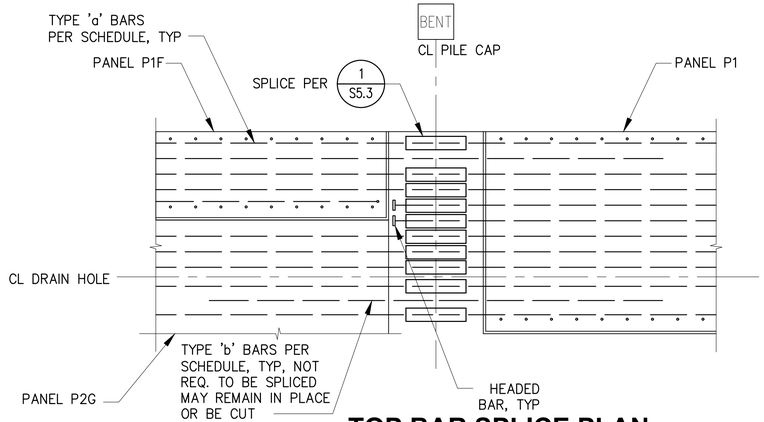
TOP BAR SPLICE PLAN
PANELS P1 - P1F

1 S27.7, S27.16 — 1/2"=1'-0"



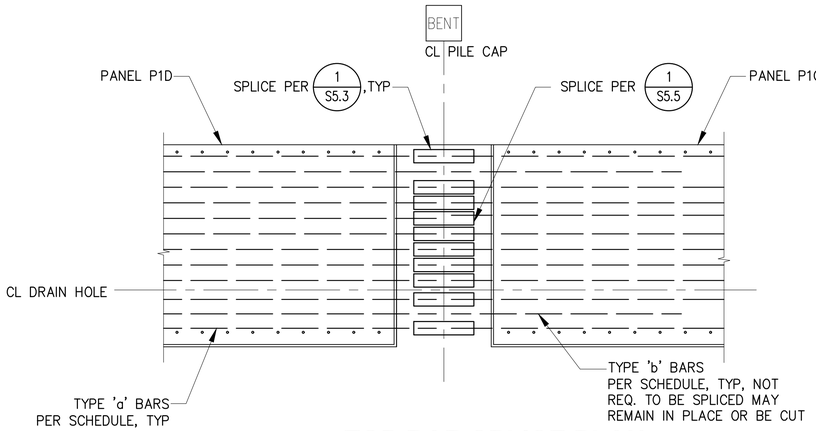
TOP BAR SPLICE PLAN
PANELS P1G - P1D

2 S27.23, S27.16A — 1/2"=1'-0"



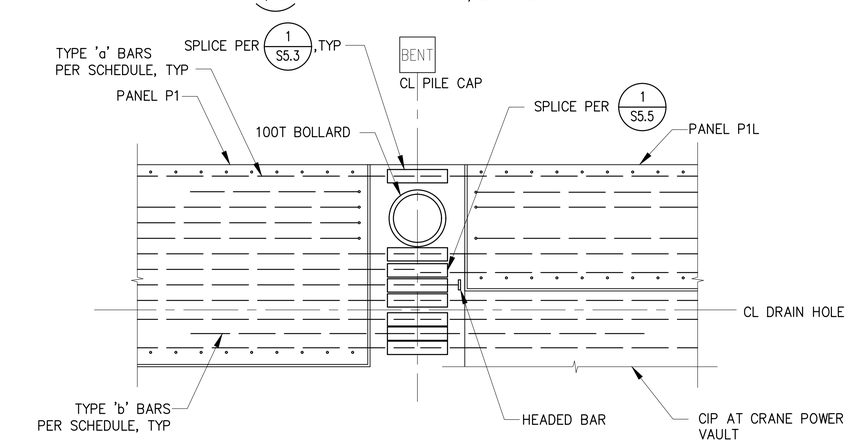
TOP BAR SPLICE PLAN
PANELS P1F - P1

3 S27.7, S27.16 — 1/2"=1'-0"



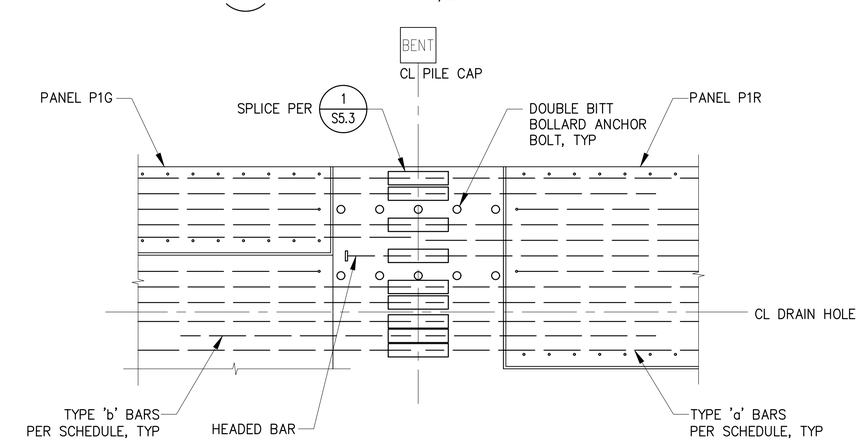
TOP BAR SPLICE PLAN
PANELS P1D - P1C

4 S27.23 — 1/2"=1'-0"



TOP BAR SPLICE PLAN
PANELS P1 - P1L

5 S27.7, S27.39 — 1/2"=1'-0"



TOP BAR SPLICE PLAN
PANELS P1G - P1R

6 S27.7A, S27.16A — 1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 2535054581
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 53

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

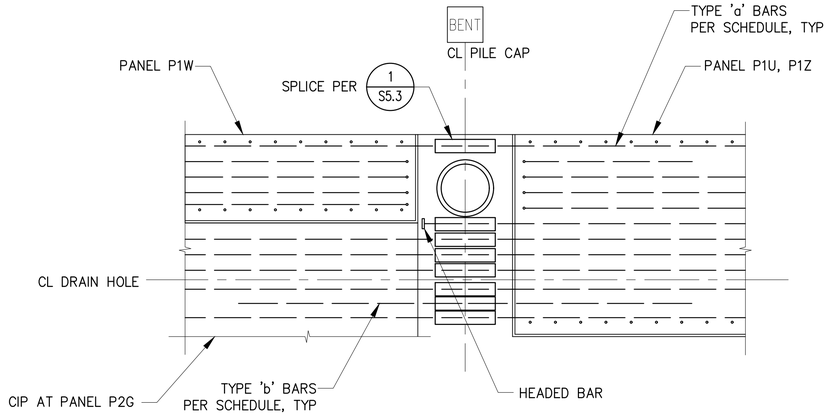
6552
S27.53
SH 348 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

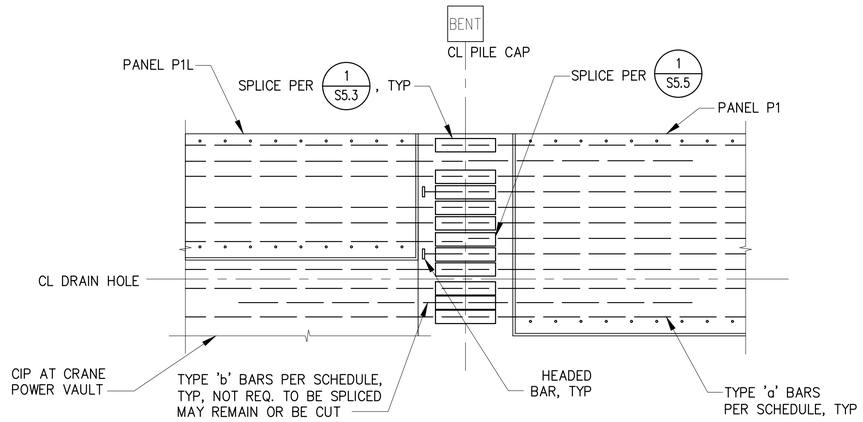
PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S27.53

BINDING EDGE



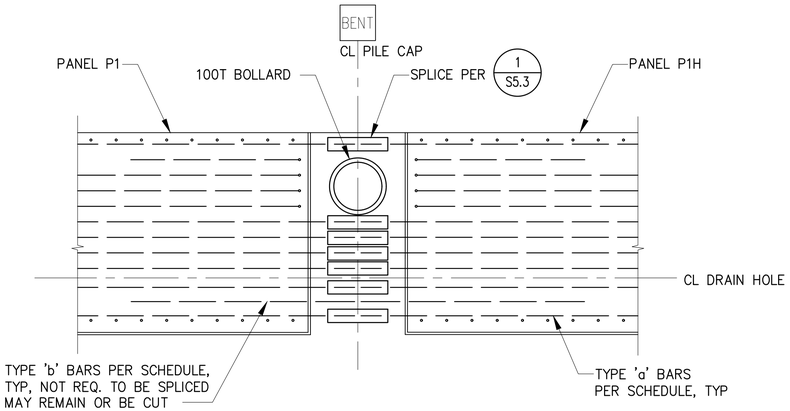
TOP BAR SPLICE PLAN
PANELS P1W - P1U - P1Z

1 S27.8, S27.16A, S27.7B — 1/2"=1'-0"



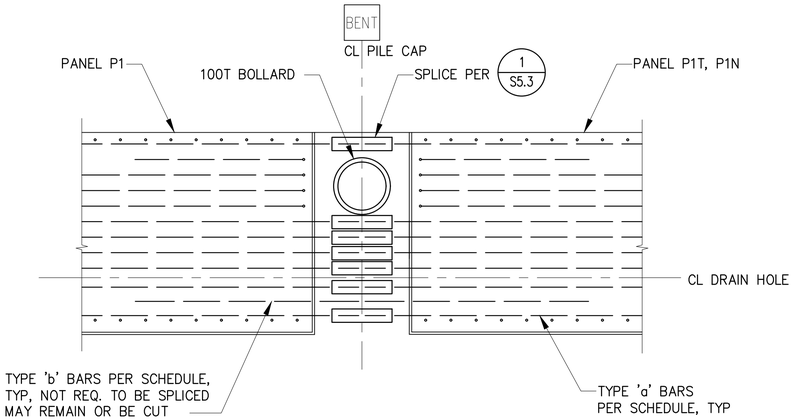
TOP BAR SPLICE PLAN
PANELS P1L - P1

2 S27.39 — 1/2"=1'-0"



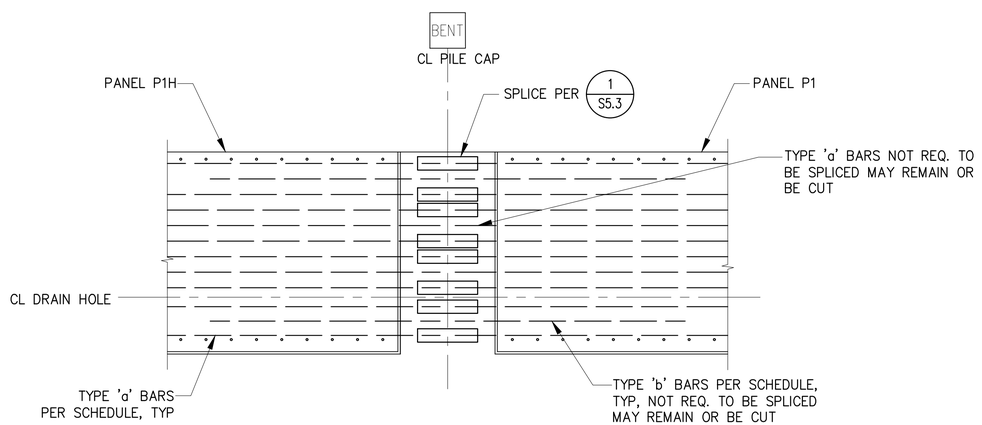
TOP BAR SPLICE PLAN
PANELS P1 - P1H

3 S27.7, S27.23A — 1/2"=1'-0"



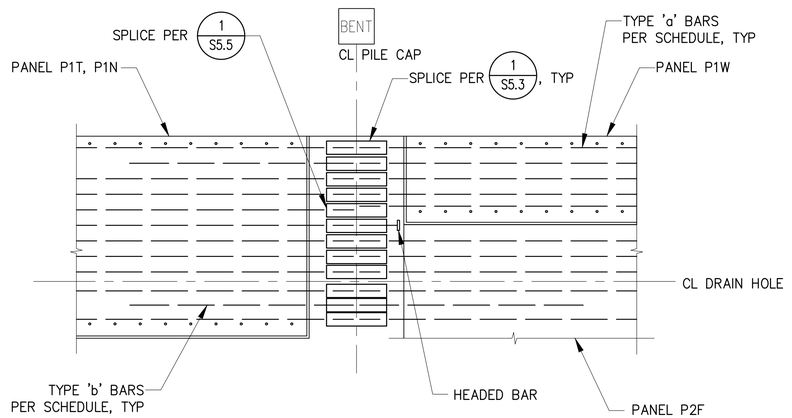
TOP BAR SPLICE PLAN
PANELS P1 - P1T

4 S27.7, S27.23A, S27.7A — 1/2"=1'-0"



TOP BAR SPLICE PLAN
PANELS P1 - P1H

5 S27.7, S27.23A — 1/2"=1'-0"



TOP BAR SPLICE PLAN
PANELS P1T - P1W

6 S27.23A, S27.16A, S27.7A — 1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

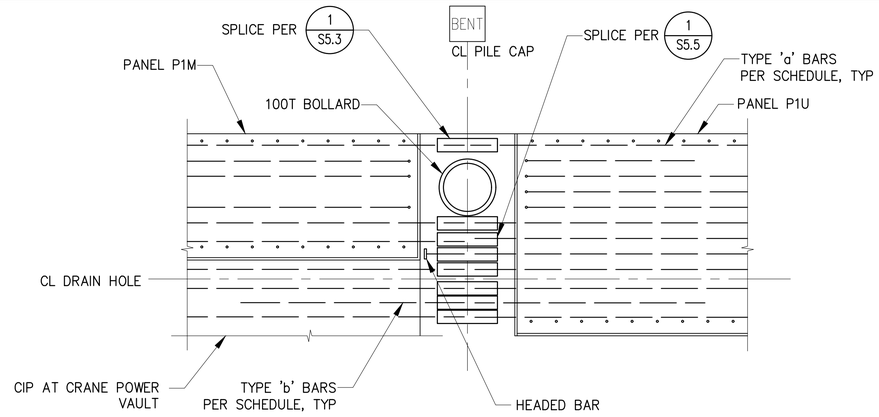
PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 54

6552
S27.54
SH 349 OF 499

CHECKED BY: SEK DATE			
PROJ. ENGR: TAH DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

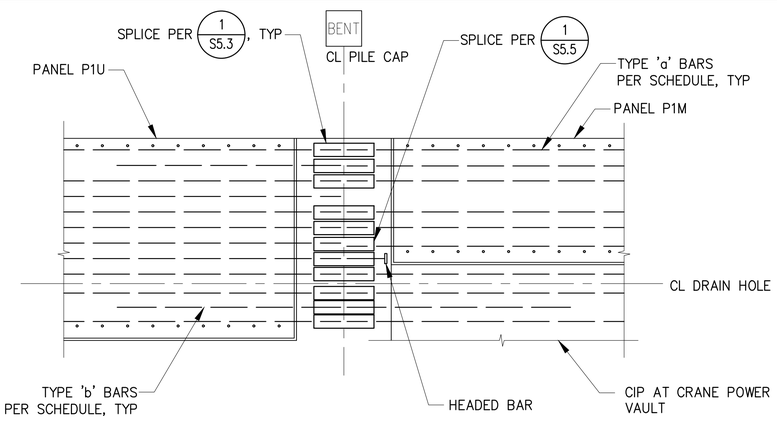
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.54



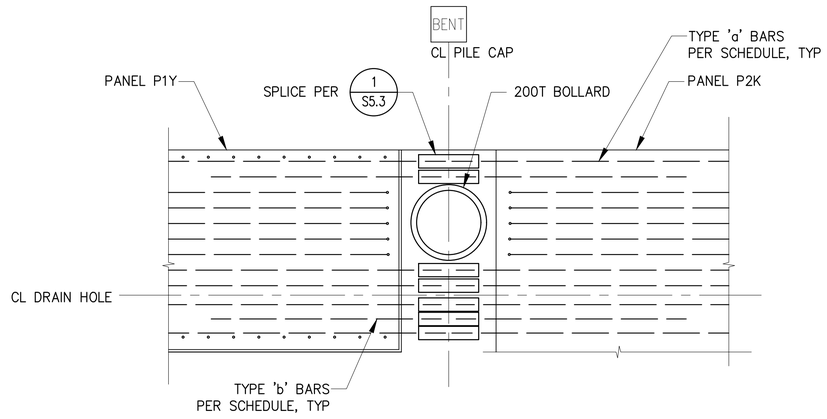
TOP BAR SPLICE PLAN PANELS P1M - P1U

1 S27.39, S27.7B — 1/2"=1'-0"



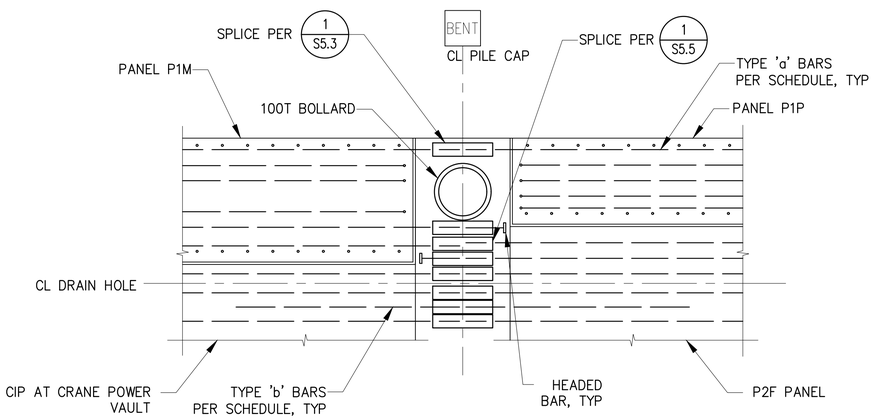
TOP BAR SPLICE PLAN PANELS P1U - P1M

2 S27.39A, S27.7B — 1/2"=1'-0"



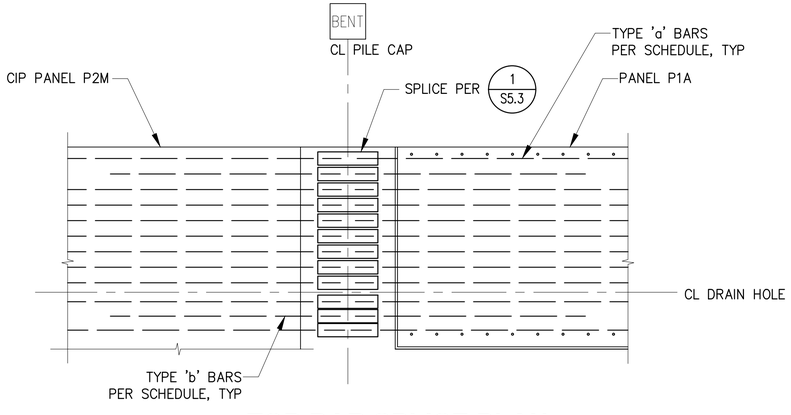
TOP BAR SPLICE PLAN PANELS P1Y - P2K

3 S27.7B — 1/2"=1'-0"



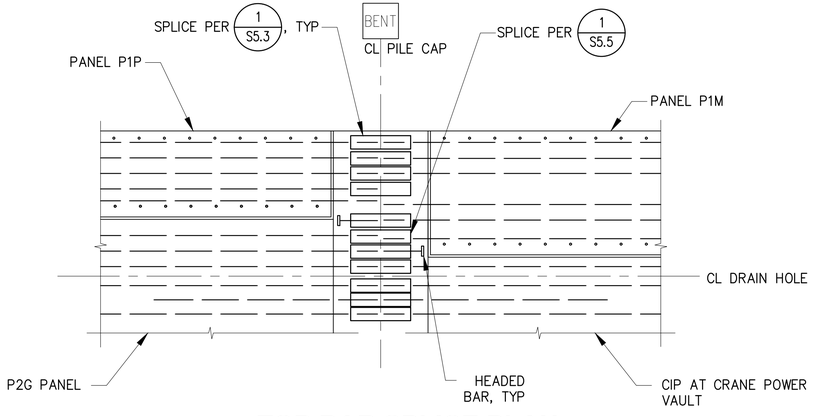
TOP BAR SPLICE PLAN PANELS P1M - P1P

4 S27.39A, S27.16A — 1/2"=1'-0"



TOP BAR SPLICE PLAN PANELS P2M - P1A

5 S27.9 — 1/2"=1'-0"



TOP BAR SPLICE PLAN PANELS P1P - P1M

6 S27.39, S27.16A — 1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.55

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

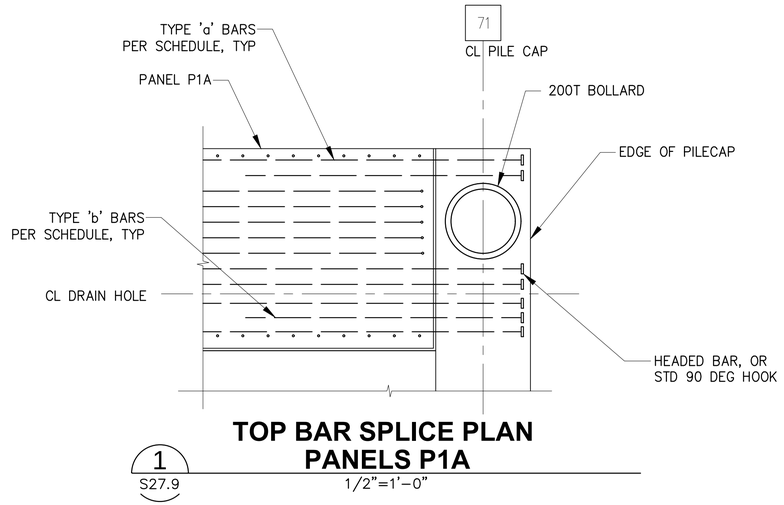
PIER 4 PHASE 2 RECONFIGURATION
DECK PANEL DETAILS - SHEET 55

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22.1933	
PHASE: CONFORMED	PARCEL:		

6552
S27.55
SH 350 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE



TOP BAR SPLICE PLAN
PANELS P1A

1
S27.9

1/2"=1'-0"

RECORD DRAWINGS

6552

S27.56

SH 351 OF 499

PIER 4 PHASE 2
RECONFIGURATION
DECK PANEL DETAILS - SHEET 56

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

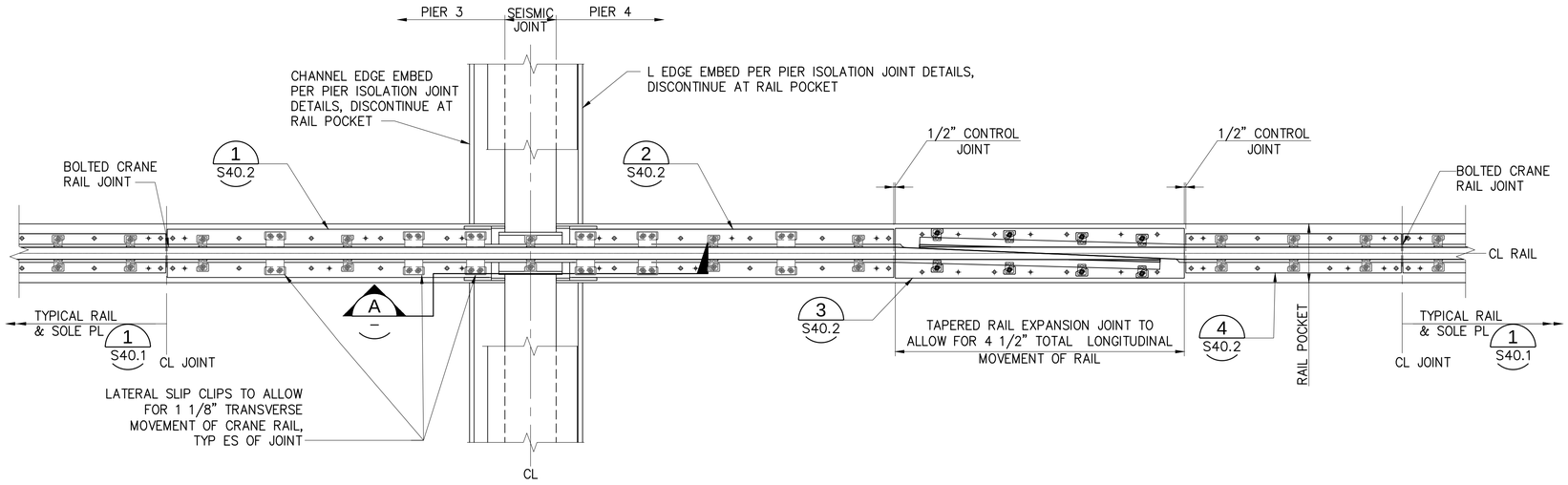
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

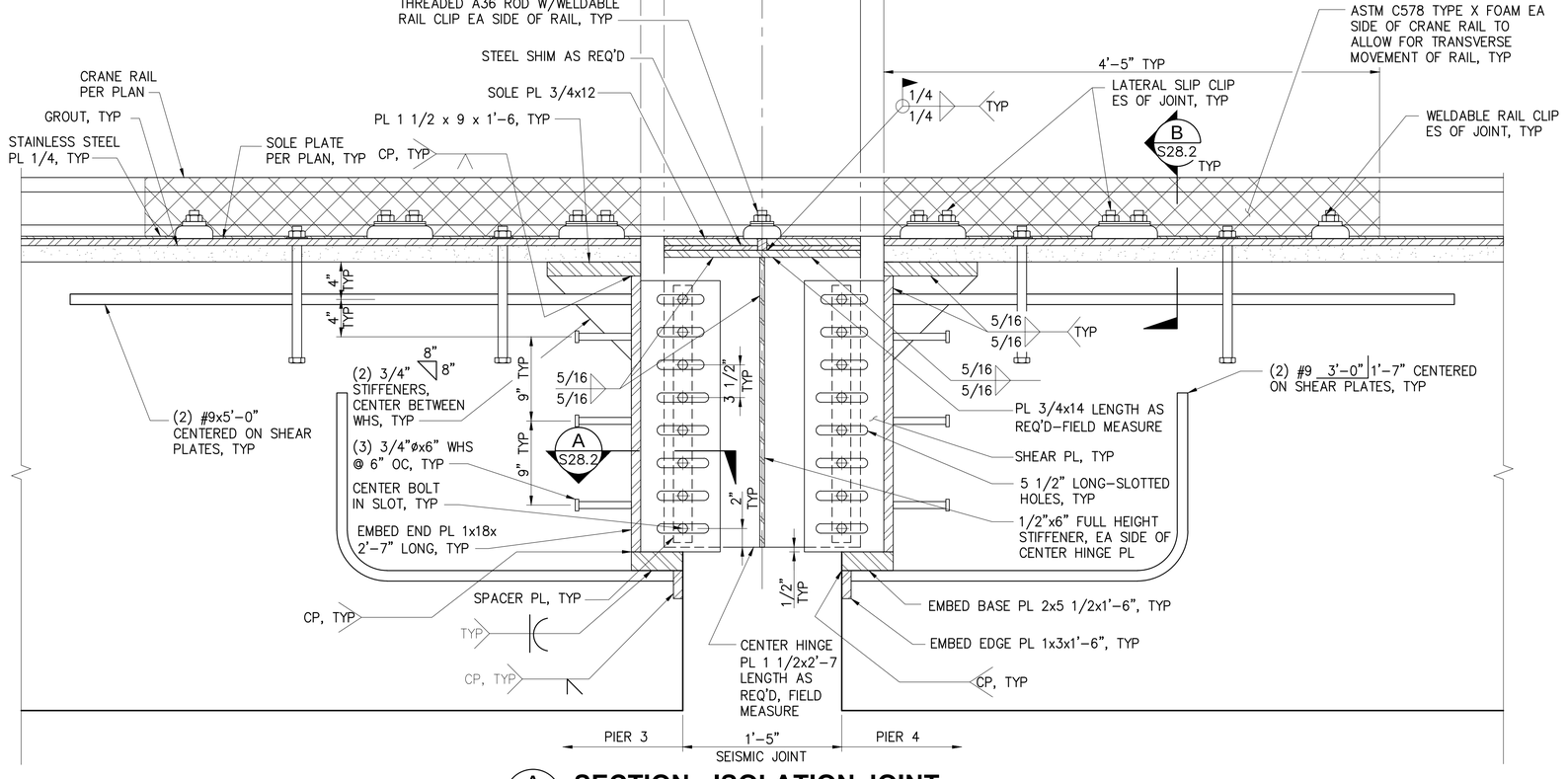
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S27.56



PARTIAL PLAN AT CRANE RAIL ISOLATION JOINT

1 S5.6, S10.6, S16.4 — 1/2"=1'-0"



SECTION - ISOLATION JOINT

A S21.3 — 1 1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S28.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DESIGNED BY:	SEK	CHECKED BY:	DATE
DRAWN BY:	TAH	PROJ. ENGR:	DATE
DIRECTOR ENG.:	DATE	PROJ. ENGR:	Jul 20, 2018
PRINTED BY:	tlemons	SECTION:	27
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		
DRAWING SCALE:	AS NOTED		

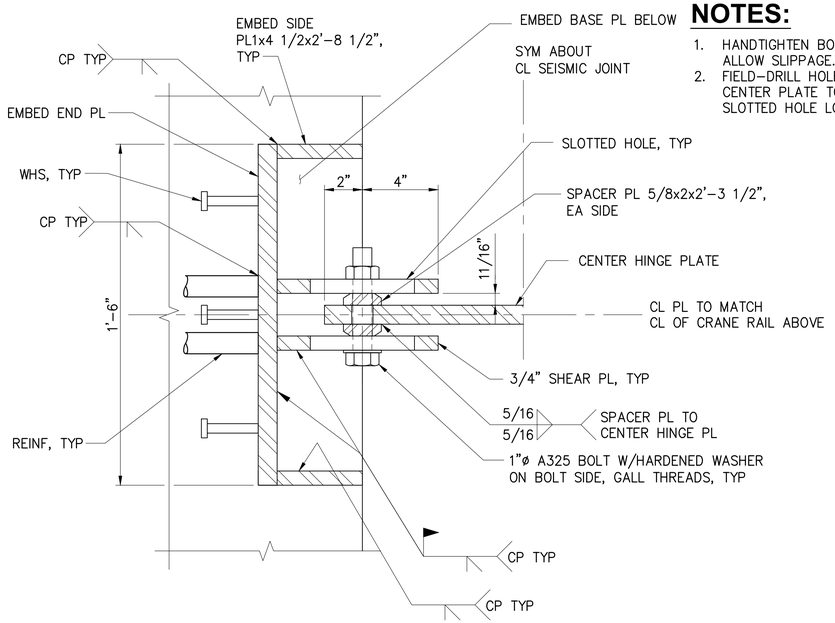
PIER 4 PHASE 2
RECONFIGURATION
CRANE RAIL ISOLATION JOINT DETAILS - SHEET 1

CONT/CONS:	070136	TOWNSHIP:	21N
M. ID:	091251	DAT-HRZ:	WA83-SF
PHASE:	CONFORMED	PARCEL:	
RANGE:	3E	SECTION:	27
VERT:	MLLW 19.39' @ Tide 22 1933		

6552
S28.1
SH 352 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

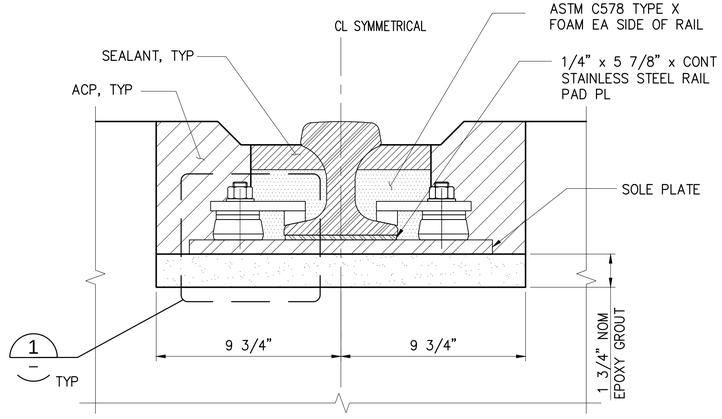


CONNECTION SECTION

A S28.1 — 3"=1'-0"

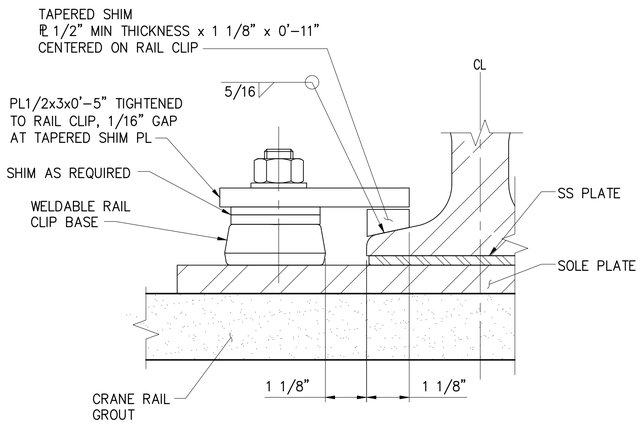
NOTES:

1. HANDTIGHTEN BOLTS TO ALLOW SLIPPAGE.
2. FIELD-DRILL HOLES IN CENTER PLATE TO FIT SLOTTED HOLE LOCATIONS.



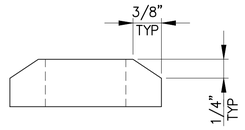
SECTION

B S28.1 — 3"=1'-0"



DETAIL LATERAL SLIP CLIP

1 — 6"=1'-0"



SPACER PL DETAIL

1'-0"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

DESIGNED BY	SEK	CHECKED BY	DATE
DRAWN BY	TAH	PROJ. ENGR	DATE
DIRECTOR ENG.	DATE	PRINTED BY:	tlemons Jul 20, 2018
APPROVED:		PORT ADDRESS:	ONE SITCUM PLAZA
			TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
CRANE RAIL ISOLATION JOINT DETAILS - SHEET 2

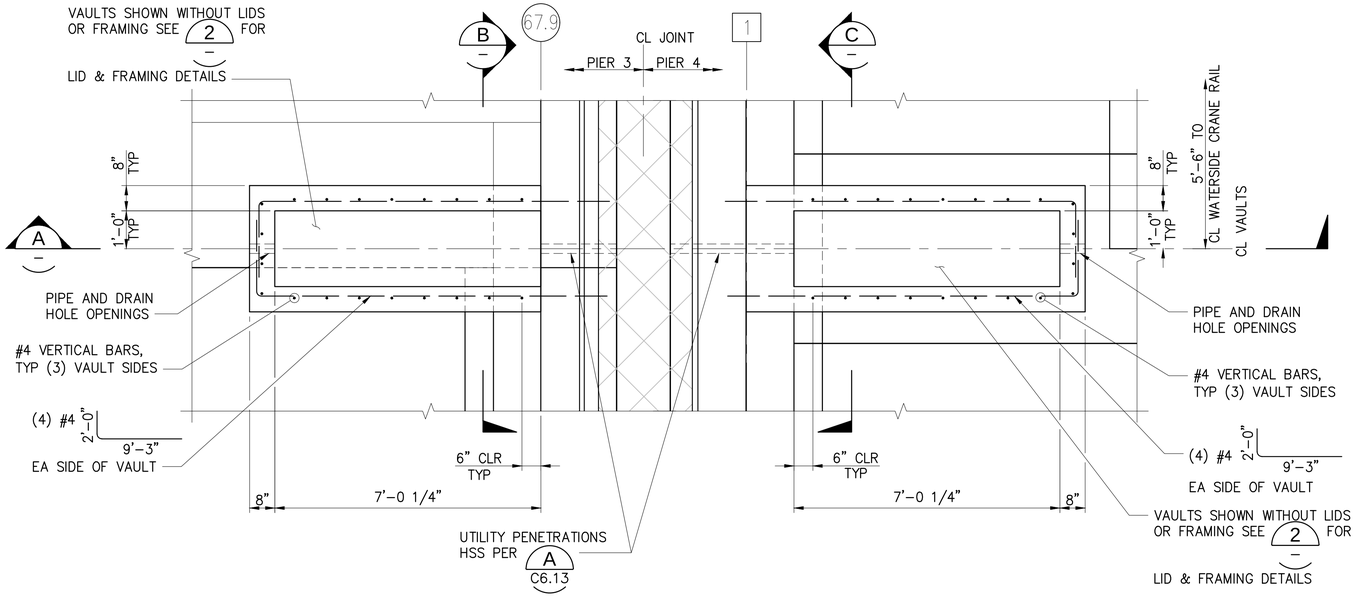
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:	DRAWING SCALE: AS NOTED		

6552
S28.2
SH 353 OF 499

CONT/CONS: 070136
M. ID: 091251
PHASE: CONFORMED

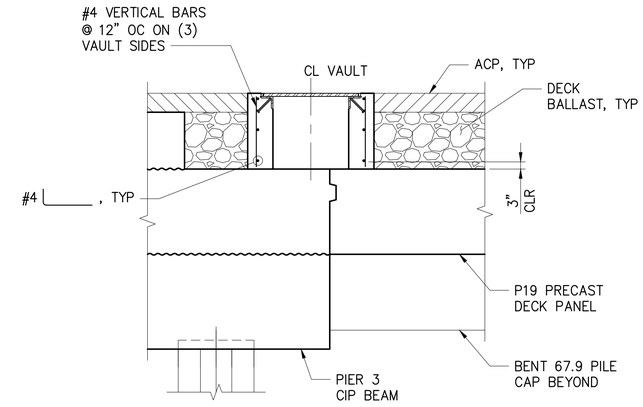
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S28.2



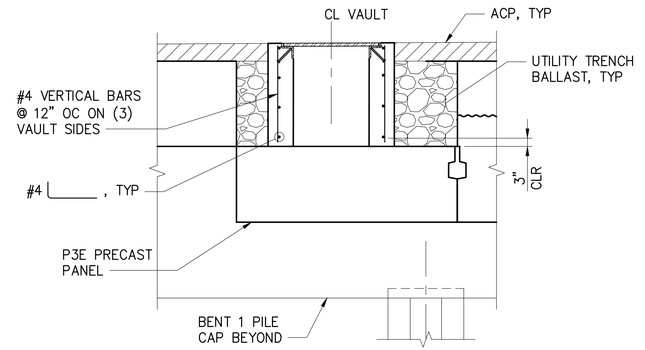
WATER VAULTS PLAN AT PIER 3/4 TRANSITION

1 S5.6 — 1/2" = 1'-0"



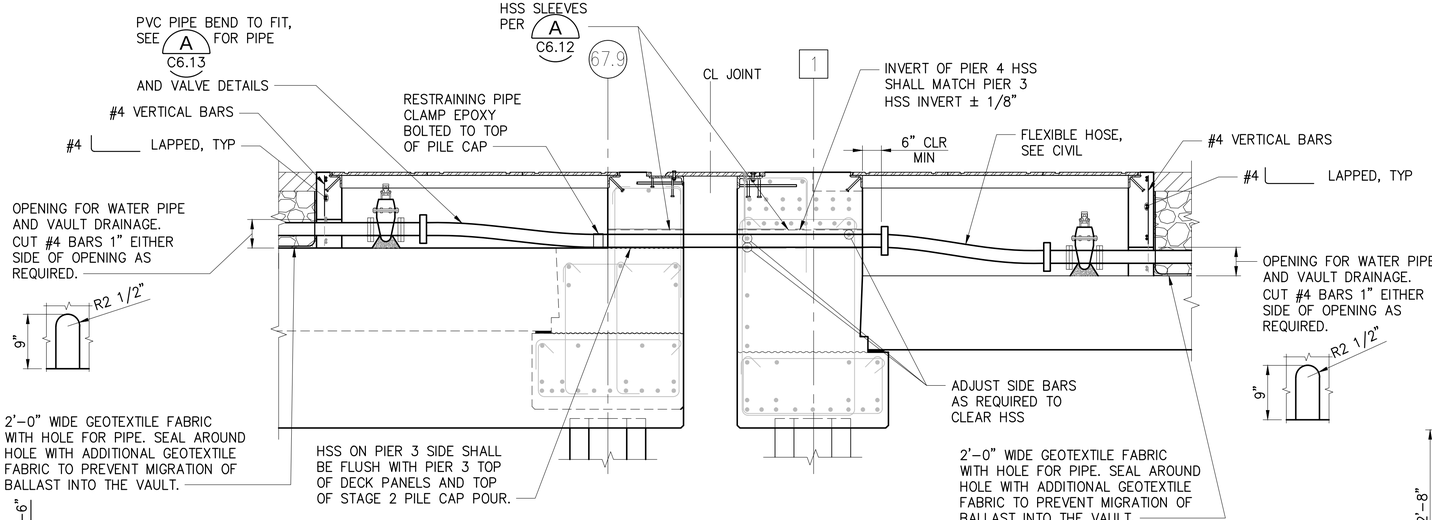
B SECTION AT PIER 3 VAULT

1/2" = 1'-0"



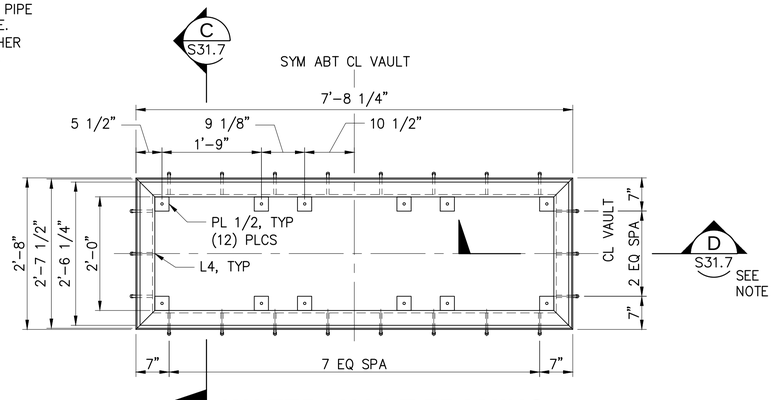
C SECTION AT PIER 4 VAULT

1/2" = 1'-0"



A WATER VAULT SECTION AT PIER 3/4 TRANSITION

1/2" = 1'-0"



WATER VAULT FRAMING AT PIER 3/4 TRANSITION

2 — 3/4" = 1'-0"

NOTES:

1. LIDS NOT SHOWN FOR CLARITY. SEE LID DETAIL ON 2 S31.7 AND D S31.7 FOR ADDITIONAL LID DIMENSIONS AND DETAILS NOT SHOWN
2. PAINT DESIGNATOR SIGN – "WATER" ON TOP OF EACH LID. USE HELVITICA FONT 4" TALL TEXT. SEE SPECIFICATIONS FOR COLOR.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE

PIER 4 PHASE 2
RECONFIGURATION
WATER VAULT AT PIER 3 TO PIER 4 TRANSITION

6552
S29.1
SH 354 OF 499

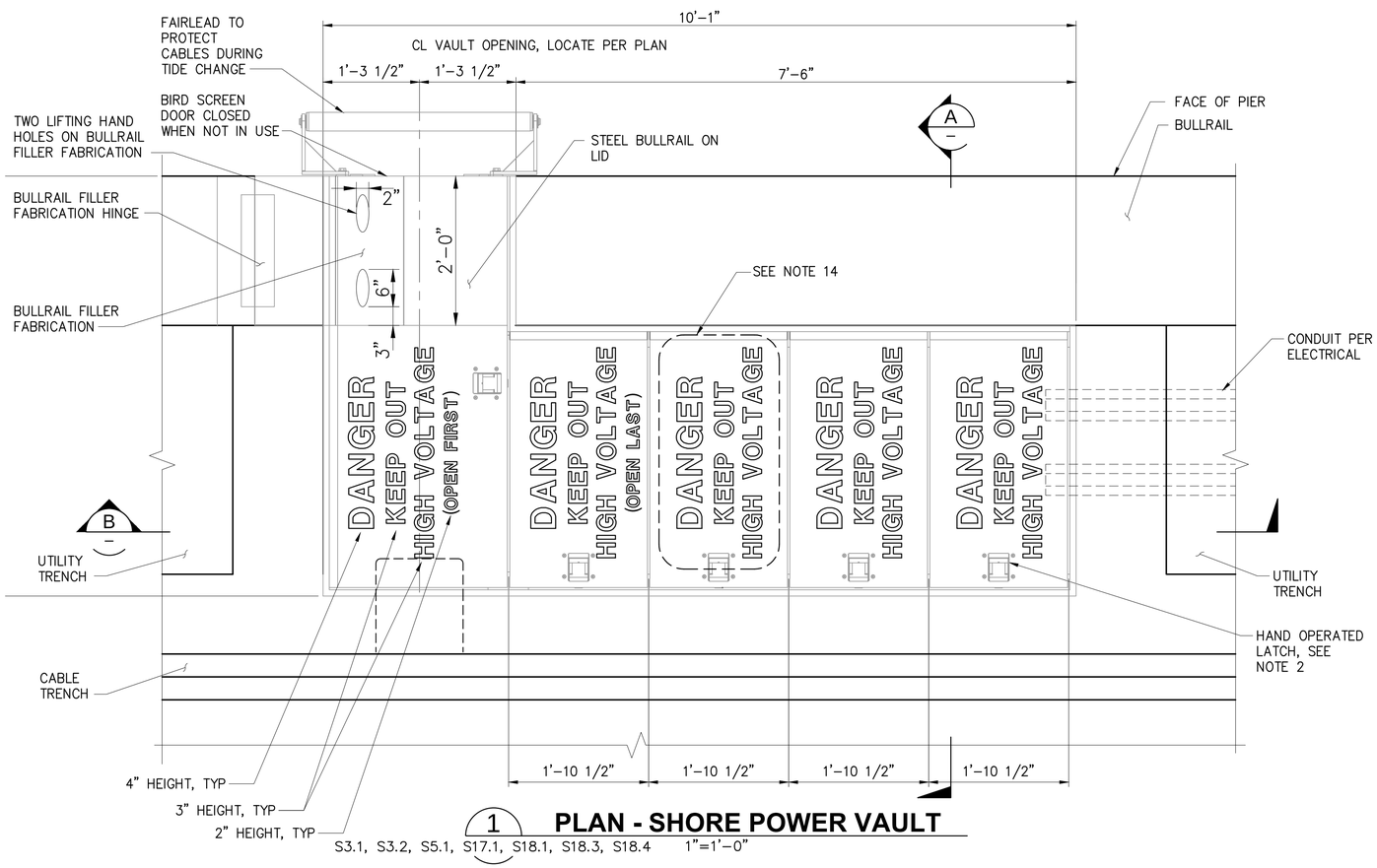
CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

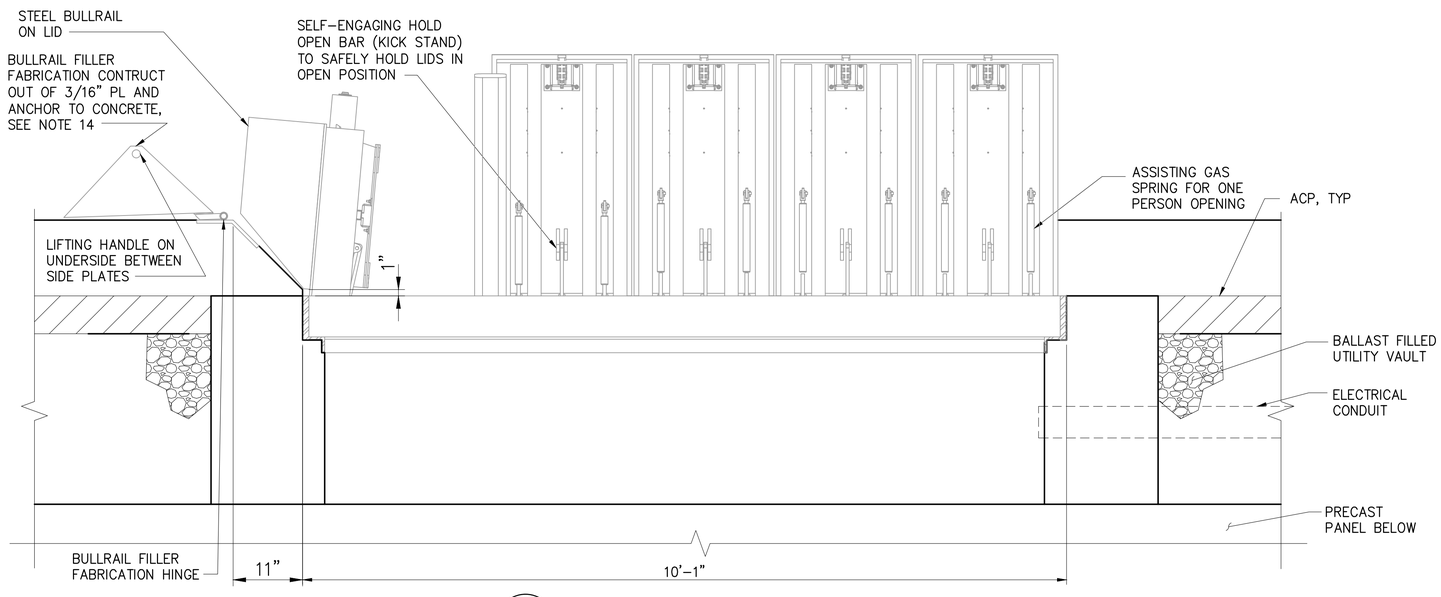
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S29.1



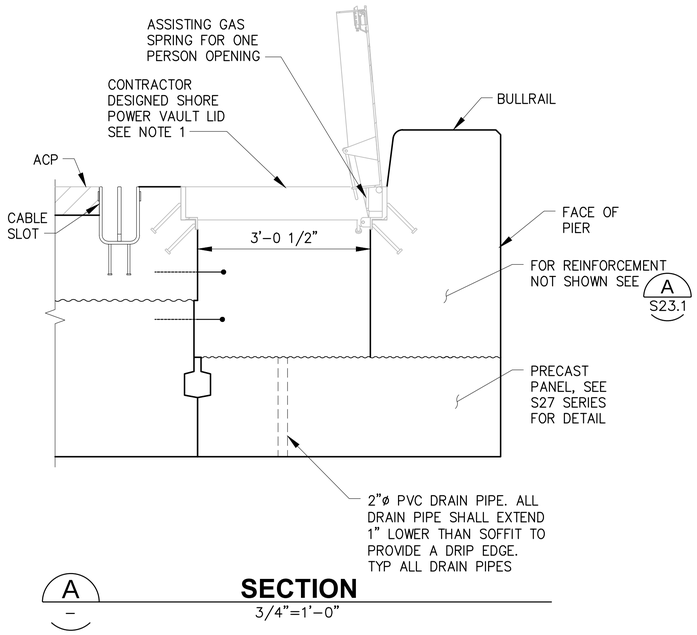
1 PLAN - SHORE POWER VAULT

S3.1, S3.2, S5.1, S17.1, S18.1, S18.3, S18.4 1"=1'-0"



B SECTION WITH LIDS OPEN

1"=1'-0"



A SECTION

3/4"=1'-0"

NOTES:

1. CONTRACTOR TO DESIGN AND PROVIDE VAULT LID, BULLRAIL FILLER FABRICATION AND VAULT FRAMING TO BE EMBEDDED IN CONCRETE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. EACH LID SHALL INCORPORATE ALL 316 STAINLESS STEEL NITROGEN GAS SPRINGS, TO ACHIEVE ONE-PERSON LIFT CAPABILITY, WITH A 20 LB. MAXIMUM OPENING FORCE THROUGH THE 90 DEGREE OPENING RANGE. THE NITROGEN GAS SPRING SHALL HAVE A MINIMUM ROD DIAMETER OF 14 MM, A MINIMUM CYLINDER DIAMETER OF 28 MM AND A MINIMUM STROKE OF 200 MM. INTERNAL SEALS SHALL BE OF VITON CONSTRUCTION.
3. LATCH SHALL BE ACTIVATED BY A RECESSED HANDLE WITH NO ABOVE-GRADE PROTRUSIONS. THE SPRING LOADED HANDLE SHALL RETURN TO CLOSED POSITION AUTOMATICALLY. THE HANDLE SHALL INCORPORATE CONCEALED MOUNTING HARDWARE, FOUR-BOLT INSTALLATION/REPLACEMENT AND BE OF ALL 316 STAINLESS STEEL CONSTRUCTION. HANDLE SHALL BE NON-LOCKING.
4. SEE SHEET S30.2 FOR CONCEPTUAL ISOMETRIC VIEWS OF VAULT LIDS.
5. STRUCTURAL SECTIONS AND PLATE SHALL BE ASTM A36 STRUCTURAL STEEL OR GREATER.
6. STEEL COVER AND FRAME SHALL BE HOT DIP GALVANIZED. PER ASTM A123 AFTER ALL WELDING BUT PRIOR TO INSTALLING STAINLESS STEEL ELEMENTS.
7. HINGE SHALL BE HEAVY DUTY ALL 316 STAINLESS STEEL CONSTRUCTION.
8. FRAME SHALL HAVE INTEGRAL CONCRETE ANCHORS. PROVIDE MINIMUM OF TWO ANCHORS FOR EVERY 24" WIDTH OF COVER.
9. A SELF-ENGAGING HOLD-OPEN BAR (HOB) SHALL BE PROVIDED TO SAFELY HOLD THE COVER IN THE OPEN POSITION AND TO PROTECT AGAINST COVER OVER-TRAVEL WHILE OPENING.
10. LIDS AND PERIMETER FRAMING ELEMENTS SHALL BE DESIGNED FOR THE MOST STRINGENT OF THE CRANE AND VEHICLE LOADS SHOWN ON S1.2.
11. ALL HARDWARE REQUIRED TO ATTACH ANY OF THE COMPONENTS TO THE CONCRETE SHALL BE DESIGNED AND SUPPLIED BY THE CONTRACTOR.
12. SEE SHEET S23.1 FOR REINFORCING DETAILS.
13. THE BULLRAIL FILLER FABRICATION SHALL BE OF THE SAME MATERIAL AND HAVE THE SAME COATING AS THE VAULT LIDS. THE FABRICATION SHALL SMOOTHLY ROTATE SUCH THAT IT CAN ROTATE CLOSED TO FILL THE GAP BETWEEN THE CONCRETE BULLRAIL AND THE STEEL BULLRAIL ON LID. WHEN OPEN IT SHALL REST SECURELY ON THE CONCRETE BULLRAIL WITHOUT DAMAGING THE CONCRETE. THE STEEL BULLRAIL ON LID SHALL BE DESIGNED FOR THE SAME LOADING AS THE LIDS, BUT THE BULLRAIL FILLER FABRICATION SHALL ONLY BE DESIGNED FOR A 300LB POINT LOAD. THE BULLRAIL FILLER FABRICATION SHALL BE MANUALLY OPERATED AND DOES NOT REQUIRE AN ASSIST.
14. PAINT DESIGNATOR SIGN – TEXT SHALL BE AS SHOWN ON EACH LID. USE HELVITICA FONT, TEXT HEIGHT AS SHOWN. SEE SPECIFICATIONS FOR COLOR.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:	SEK CHECKED BY DATE
	TAH PROJ. ENGR DATE
DIRECTOR ENG. DATE	PRINTED BY: tlemons Jul 20, 2018
	PORT ADDRESS: ONE SITCUM PLAZA
	TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
SHORE POWER VAULT DETAILS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DRAWING SCALE: AS NOTED
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PHASE: CONFORMED	PARCEL:			

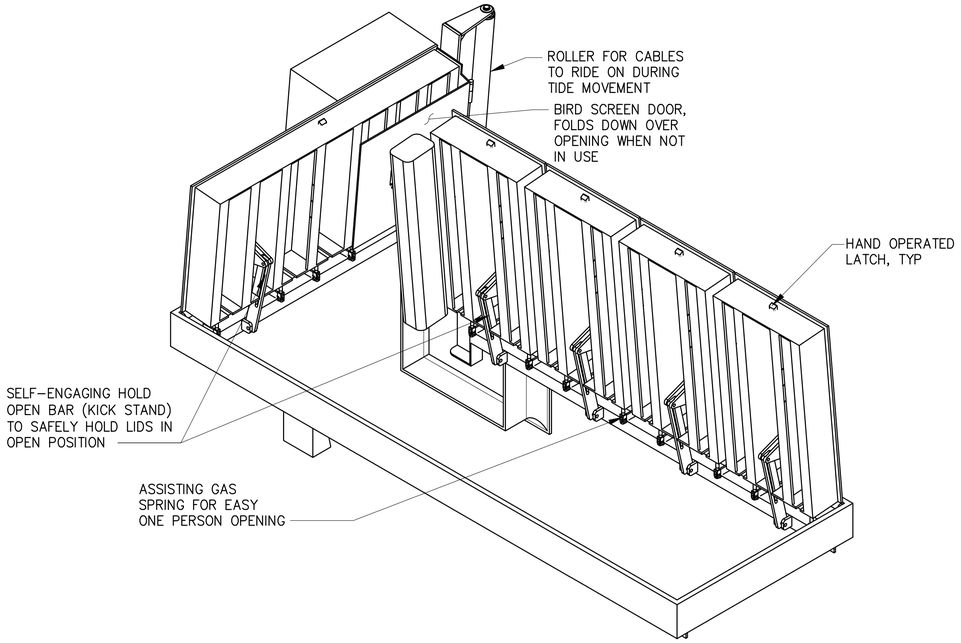
6552
S30.1
SH 355 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

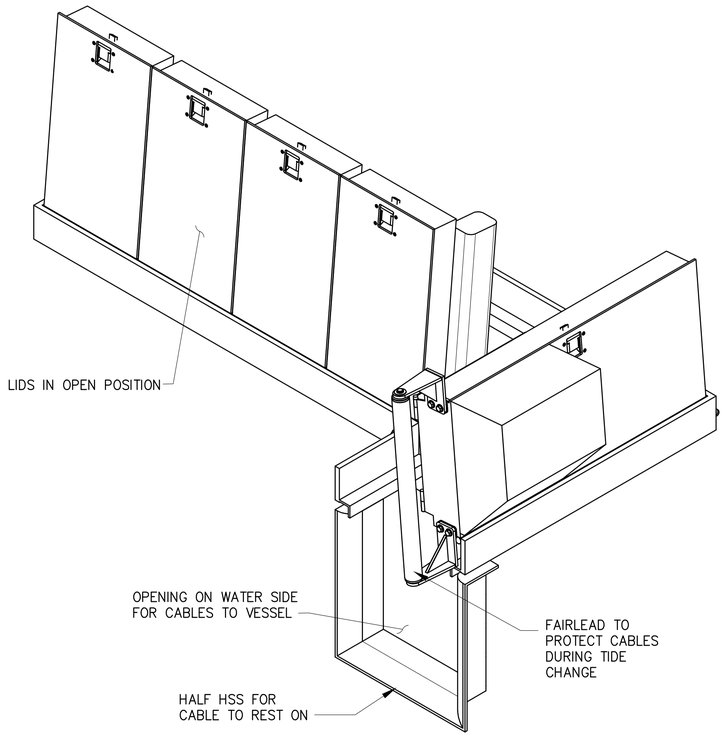
PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S30.1

BINDING EDGE



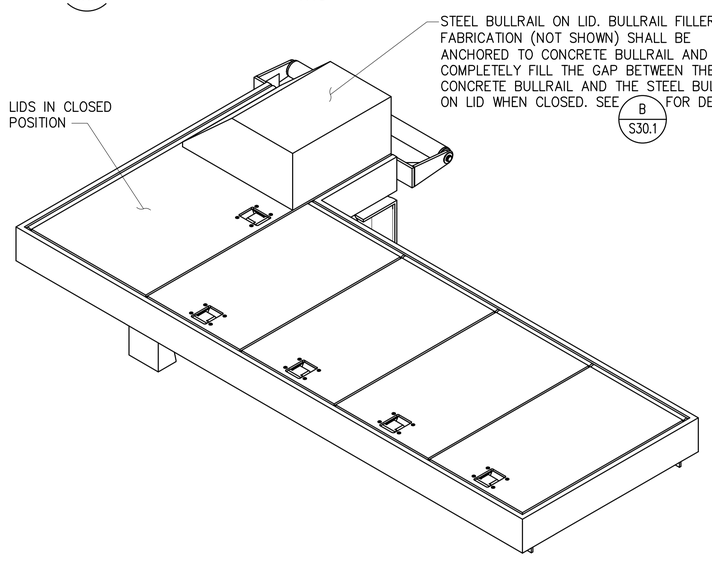
SHORE POWER VAULT LID ASSEMBLY VIEW FROM LANDSIDE

1 / S30.1 — NTS



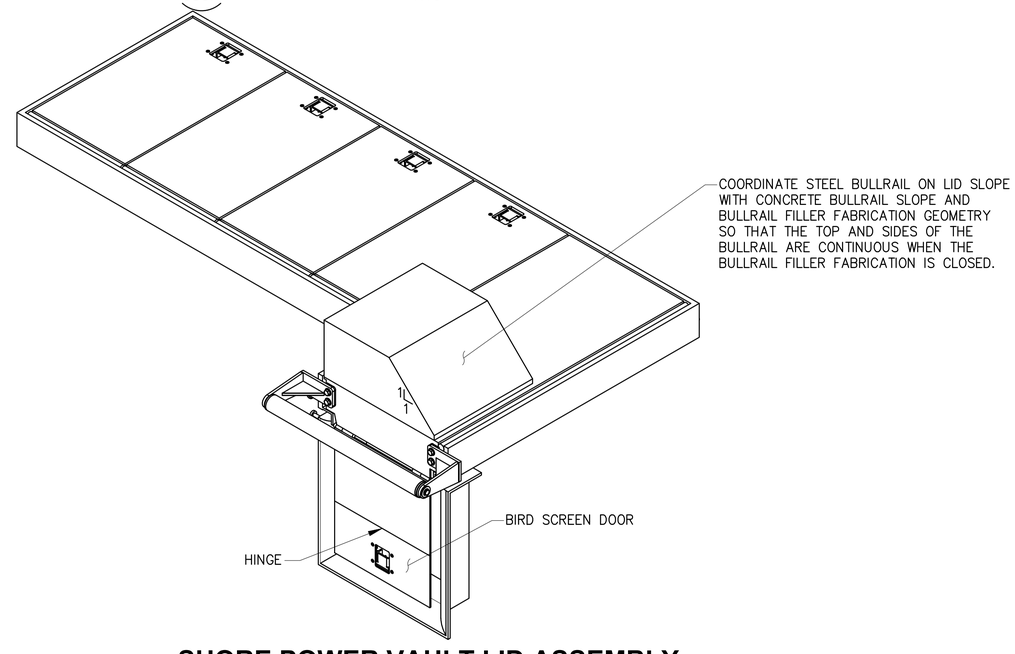
SHORE POWER VAULT LID ASSEMBLY VIEW FROM WATERSIDE

2 / S30.1 — NTS



SHORE POWER VAULT LID ASSEMBLY VIEW FROM LANDSIDE

3 / S30.1 — NTS



SHORE POWER VAULT LID ASSEMBLY VIEW FROM WATERSIDE

4 / S30.1 — NTS

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE
PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

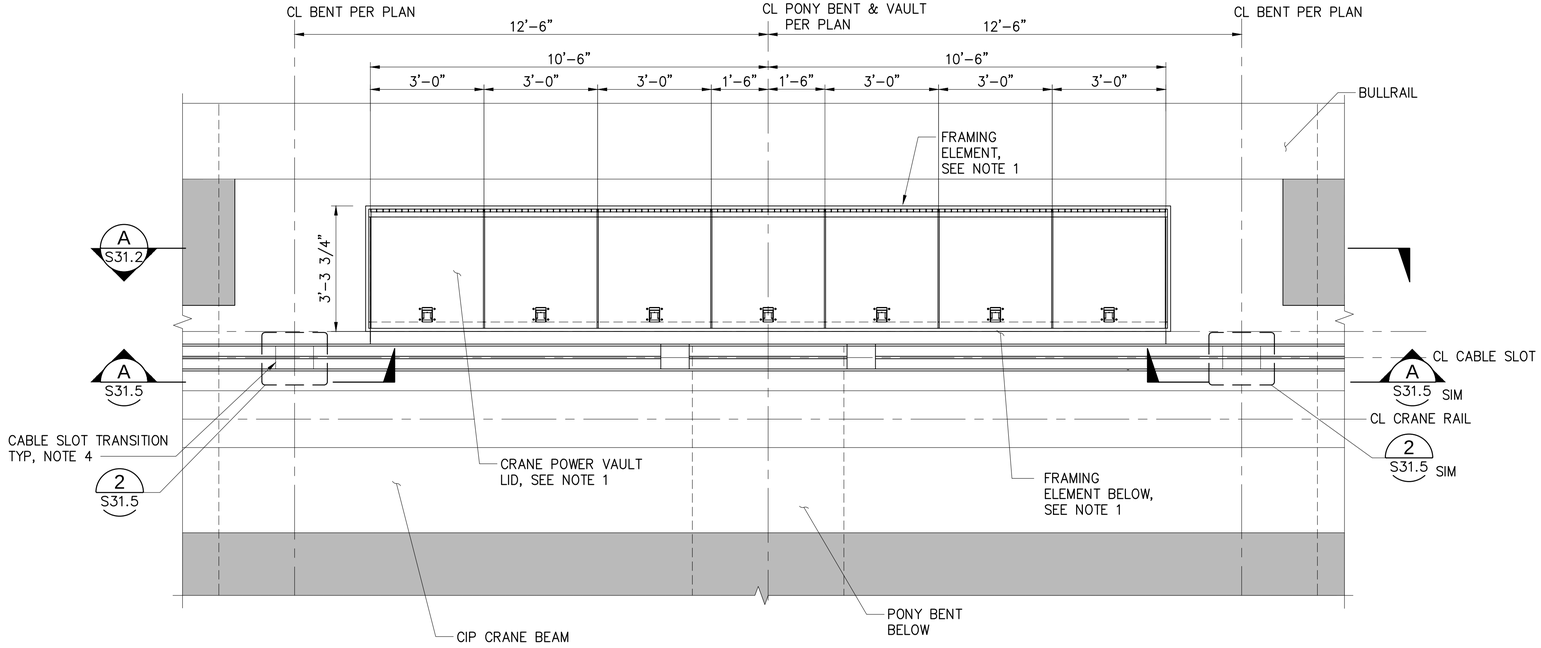
PIER 4 PHASE 2
RECONFIGURATION
SHORE POWER VAULT DETAILS - SHEET 2

CONT/CONS: 0701036	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837

6552
S30.2
SH 356 OF 499

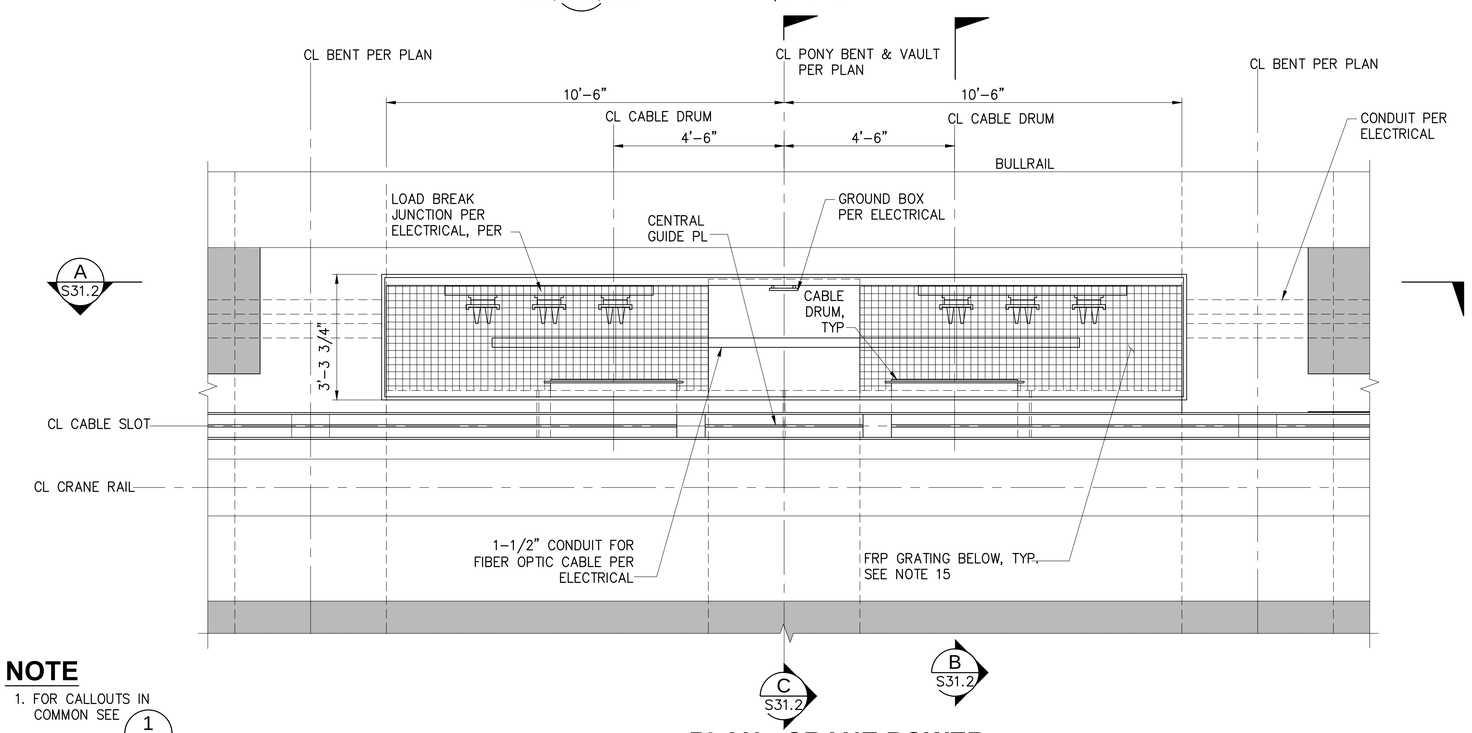
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S30.2



PLAN - CRANE POWER VAULT - LID CLOSED

1 / S3.1, S3.2, S5.1 — 1/2"=1'-0"



PLAN - CRANE POWER VAULT - LID OPEN

2 — 1/2"=1'-0"

NOTE

1. FOR CALLOUTS IN COMMON SEE 1 / –

NOTES:

1. CONTRACTOR TO DESIGN AND PROVIDE LIDS AND PERIMETER FRAMING ELEMENTS WHICH WILL BE SUPPORTED ON THE STEEL CORBELS AND HSS SECTIONS, AND EMBEDED IN CONCRETE AS SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. EACH LID SHALL INCORPORATE 316 STAINLESS STEEL NITROGEN GAS SPRINGS, TO ACHIEVE ONE-PERSON LIFT CAPABILITY, WITH A 20 LB. MAXIMUM OPENING FORCE THROUGH THE 90 DEGREE OPENING RANGE. THE NITROGEN GAS SPRING SHALL HAVE A MINIMUM ROD DIAMETER OF 14 MM, A MINIMUM CYLINDER DIAMETER OF 28 MM AND A MINIMUM STROKE OF 200 MM. INTERNAL SEALS SHALL BE OF VITON CONSTRUCTION.
3. LATCH SHALL BE ACTIVATED BY A RECESSED HANDLE WITH NO ABOVE-GRADE PROTRUSIONS. THE SPRING LOADED HANDLE SHALL RETURN TO CLOSED POSITION AUTOMATICALLY. THE HANDLE SHALL INCORPORATE CONCEALED MOUNTING HARDWARE, FOUR-BOLT INSTALLATION/REPLACEMENT AND BE OF ALL 3136 STAINLESS STEEL CONSTRUCTION. HANDLE SHALL BE NON-LOCKING.
4. SEE SHEET S31.5 FOR CABLE SLOT TRANSITION DETAILS.
5. SEE SHEET S31.6 FOR CONCEPTUAL ISOMETRIC VIEWS OF VAULT LIDS.
6. STRUCTURAL SECTIONS AND PLATE SHALL BE ASTM A36 STRUCTURAL STEEL OR GREATER.
7. STEEL COVER AND FRAME SHALL BE HOT DIP GALVANIZED. PER ASTM A123 AFTER ALL WELDING BUT PRIOR RO INSTALLING STAINLESS STEEL ELEMENTS.
8. HINGE SHALL BE HEAVY DUTY ALL 316 STAINLESS STEEL CONSTRUCTION.
9. FRAME SHALL HAVE INTEGRAL CONCRETE ANCHORS. PROVIDE A MINIMUM OF TWO ANCHORS FOR EVERY 24" WIDTH OF COVER.
10. A SELF-ENGAGING HOLD-OPEN BAR (HOB) SHALL BE PROVIDED TO SAFELY HOLD THE COVER IN THE OPEN POSITION AND TO PROTECT AGAINST COVER OVER-TRAVEL WHILE OPENING.
11. LIDS AND PERIMETER FRAMING ELEMENTS SHALL BE DESIGNED FOR THE MOST STRINGENT OF THE CRANE AND VEHICLE LOADS SHOWN ON S1.2.
12. ALL HARDWARE TO ATTACH ANY OF THE COMPONENTS TO THE CONCRETE OR HSS SECTIONS SHALL BE DESIGNED AND SUPPLIED BY THE CONTRACTOR.
13. SEE SHEET S24.1 FOR REINFORCEMENT DETAILS.
14. PAINT DESIGNATOR – "DANGER HIGH VOLTAGE" ON TOP OF EACH LID. USE HELVITICA FONT 4" TALL. SEE SPECIFICATIONS FOR COLOR.
15. FRP GRATING FOR CRANE POWER VAULTS SHALL BE 1-1/2" DEEP 1/2x 1-1/2" SQUARE MESH. ONE PIECE MOLDED GLASS FIBER REINFORCED PLASTIC GRATING, YELLOW IN COLOR, WITH CONCAVE MENISCUS PROFILE NON SLIP TOP SURFACING AS MANUFACTURED BY FIBERGRATE COMPOSITE STRUCTURES INC. OR APPROVED EQUAL.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 | 2535353941
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 | Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

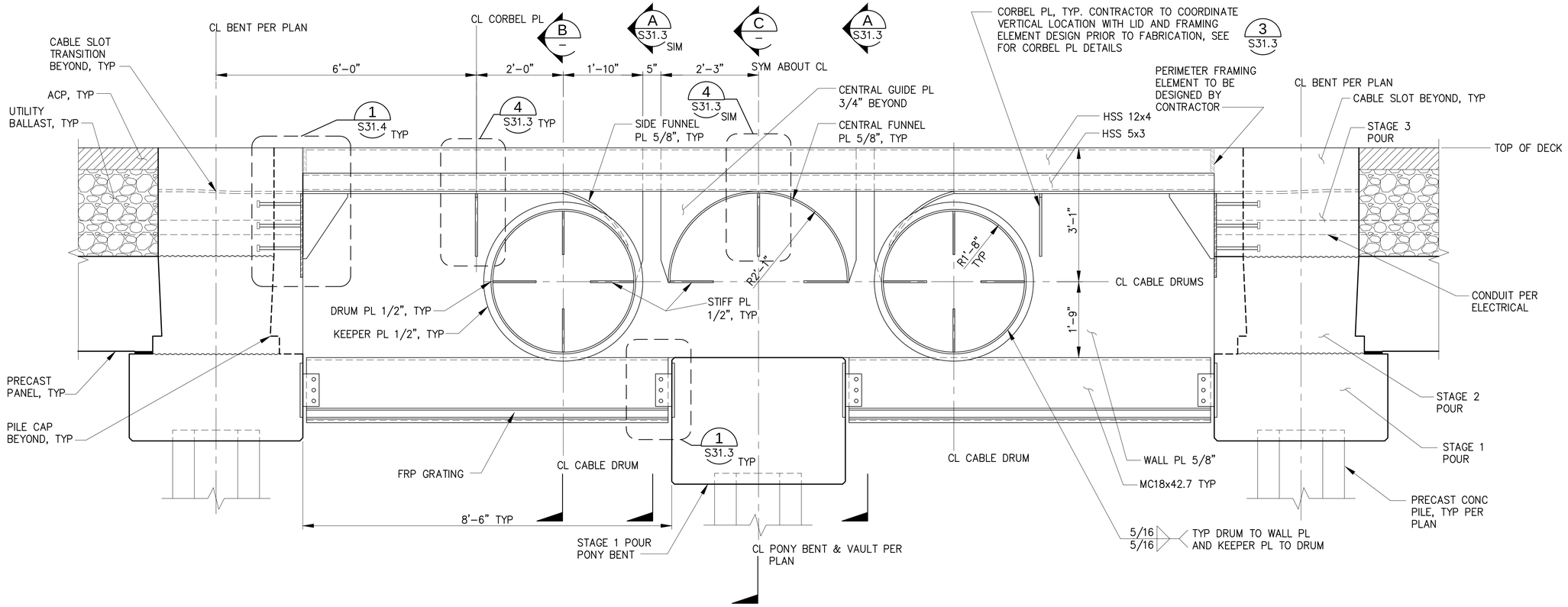
DESIGNED BY	SEK	CHECKED BY	DATE
DRAWN BY	TAH	PROJ. ENGR	DATE
DIRECTOR ENG.	DATE		
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837		

PIER 4 PHASE 2
RECONFIGURATION
CRANE POWER VAULT DETAILS - SHEET 1

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

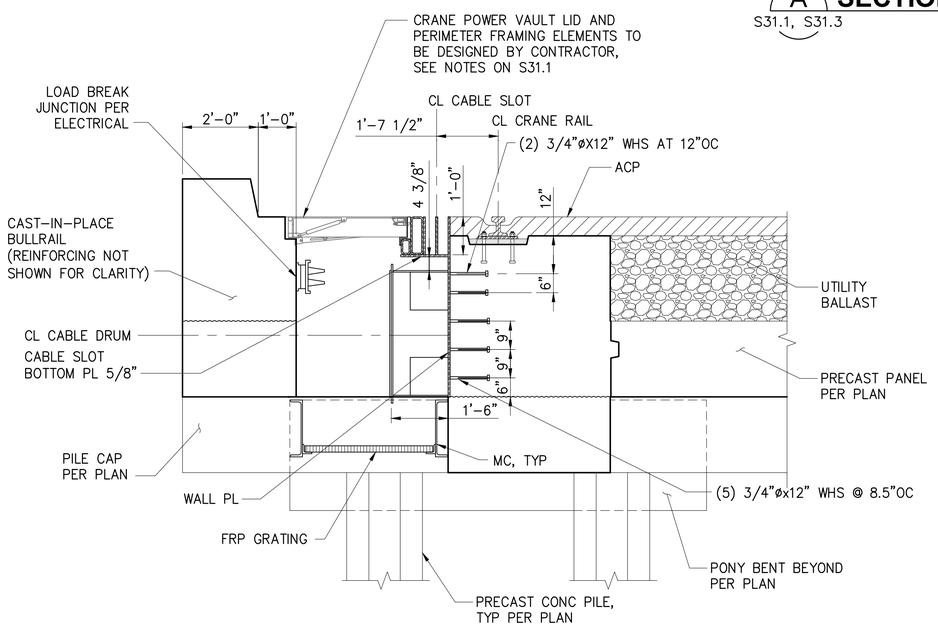
6552
S31.1
SH 357 OF 499

BINDING EDGE
PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S31.1
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



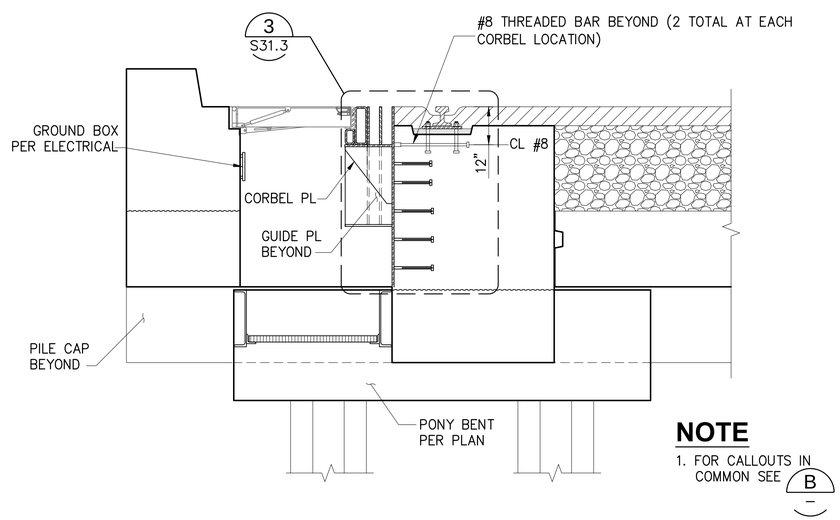
A SECTION - CRANE POWER VAULT

S31.1, S31.3 3/4"=1'-0"



B SECTION - CRANE POWER VAULT

S31.1 1/2"=1'-0"



C SECTION - CRANE POWER VAULT

S31.1 1/2"=1'-0"

NOTE

1. FOR CALLOUTS IN COMMON SEE B –

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251109125 1-S31.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
CRANE POWER VAULT DETAILS - SHEET 2

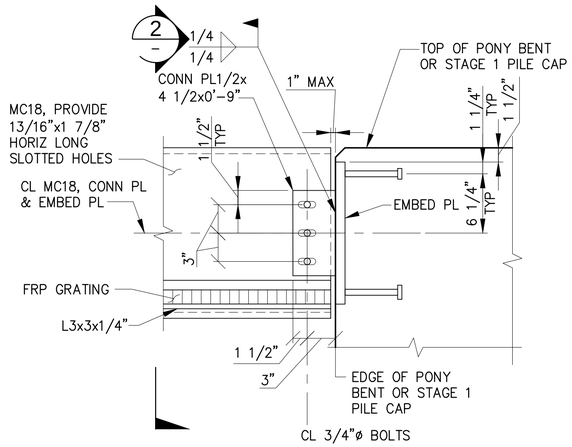
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018 PROJ. ENGR DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

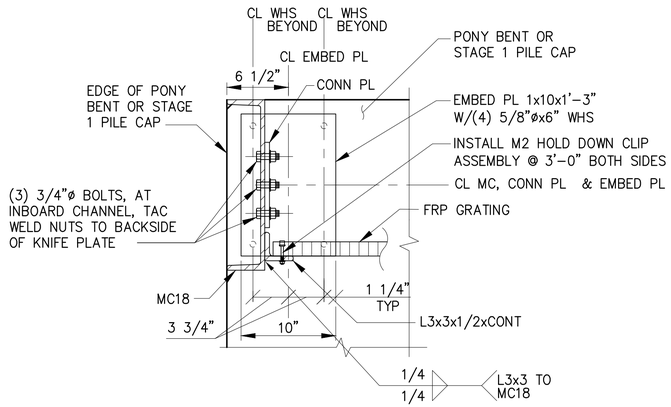
6552
S31.2
SH 358 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

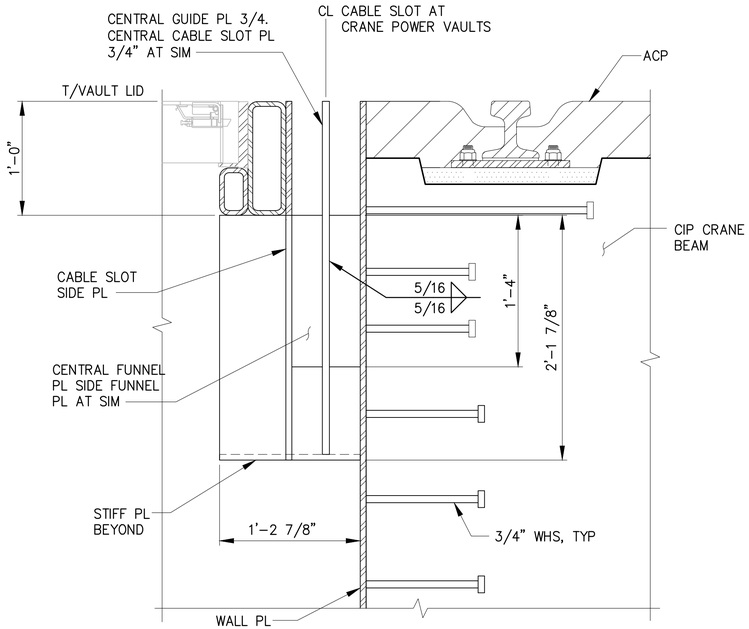
BINDING EDGE



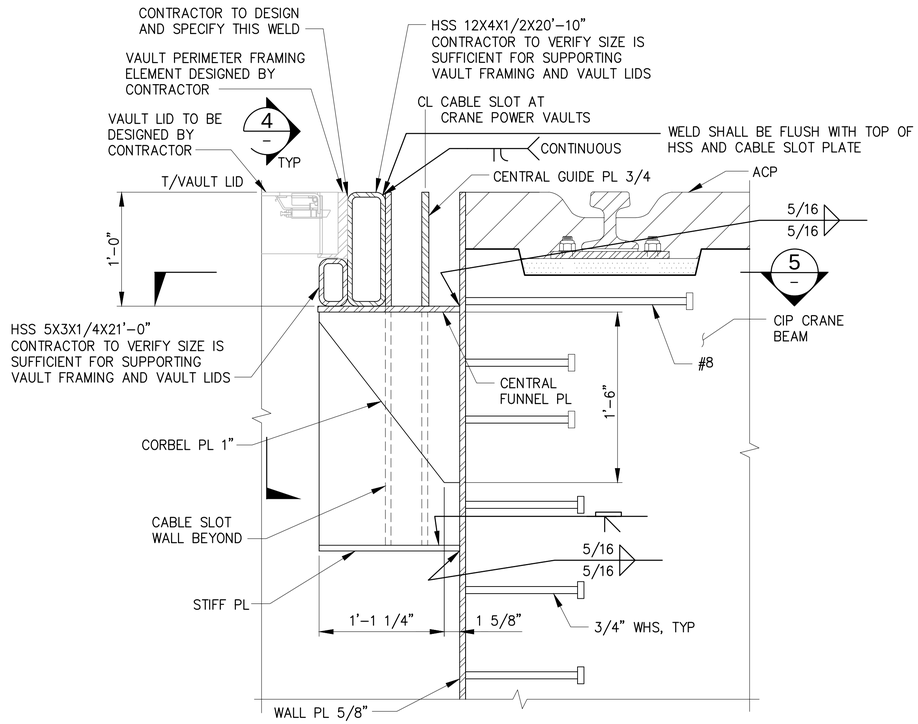
1 S31.2 **DETAIL**
1 1/2" = 1'-0"



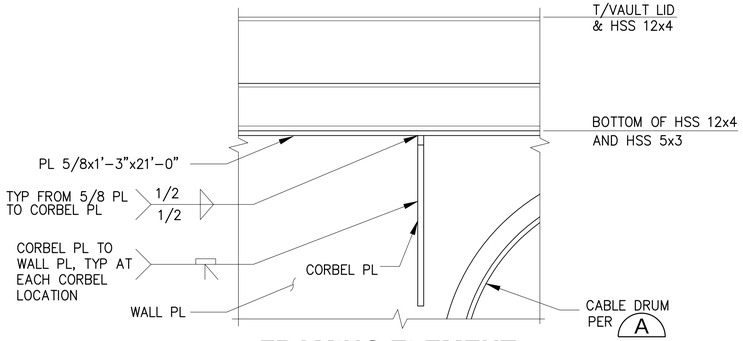
2 – **SECTION**
1 1/2" = 1'-0"



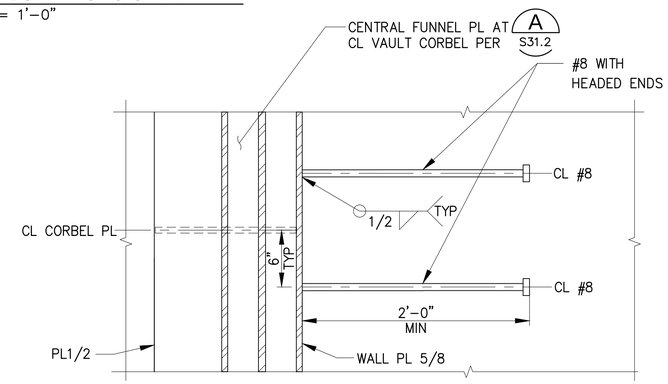
A S31.2 **SECTION**
1 1/2" = 1'-0"



3 S31.2 **CABLE SLOT DETAIL AT CRANE POWER VAULTS**
1 1/2" = 1'-0"



4 S31.2 **FRAMING ELEMENT CONNECTION TO CORBEL**
1 1/2" = 1'-0"



5 – **SECTION**
1 1/2" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

DESIGNED BY	SEK	
DRAWN BY	TAH	
DIRECTOR ENG.	PROJ. ENGR	DATE
PRINTED BY:	tiemons	Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	
DRAWING SCALE:	AS NOTED	TACOMA, WA 98401-1837

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
CRANE POWER VAULT DETAILS - SHEET 3

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	

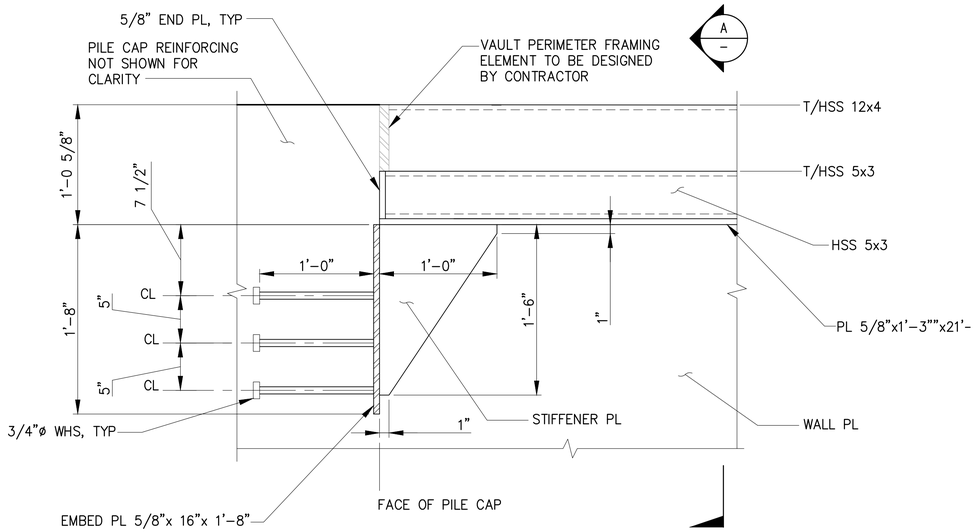
SECTION: 27

6552
S31.3
SH 359 OF 499

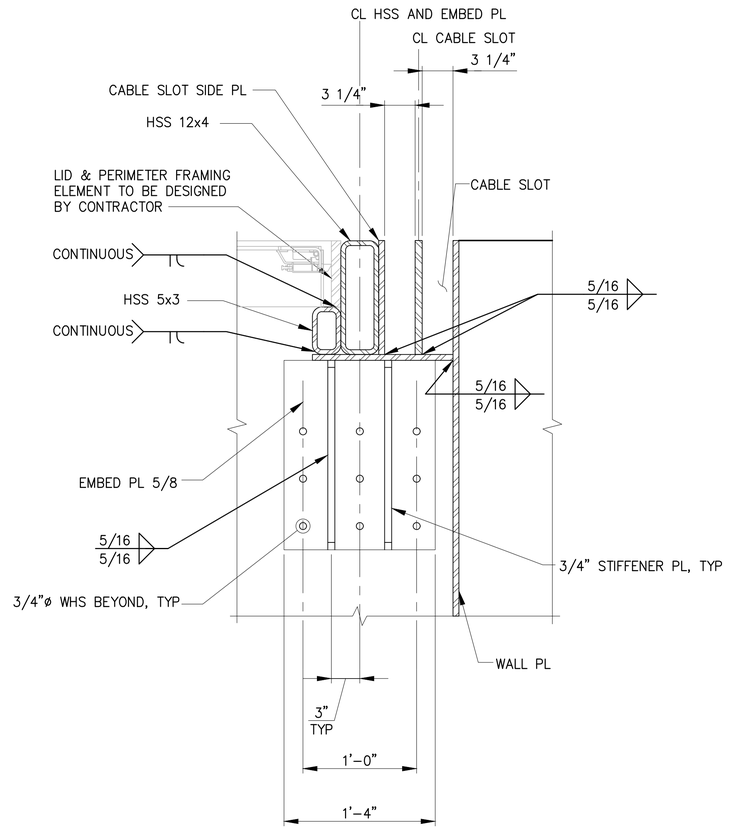
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S31.3

BINDING EDGE



1 S31.2 **DETAIL**
SCALE: 1-1/2"=1'-0"



A – **SECTION**
SCALE: 1-1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

DESIGNED BY:	SEK	CHECKED BY	DATE
DRAWN BY:	TAH		
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

APPROVED:

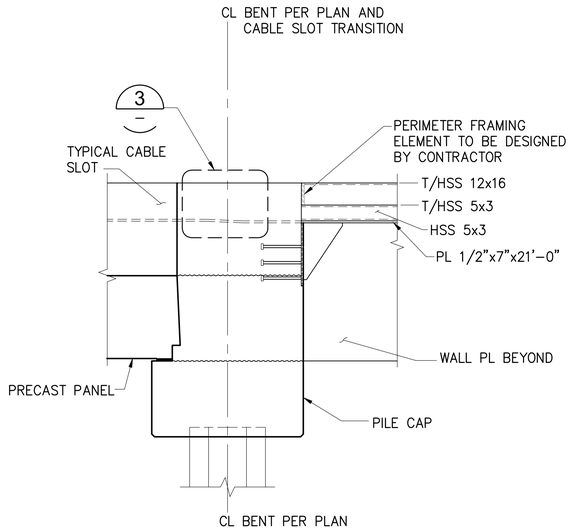
PIER 4 PHASE 2
RECONFIGURATION
CRANE POWER VAULT DETAILS - SHEET 4

CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912.51	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S31.4
SH 360 OF 499

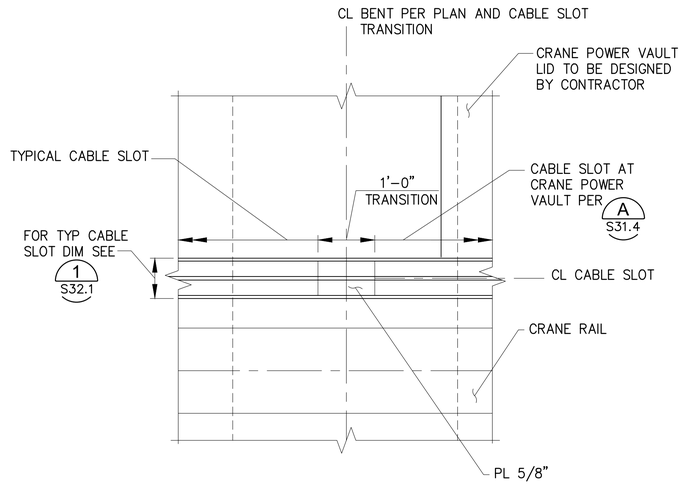
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S31.4



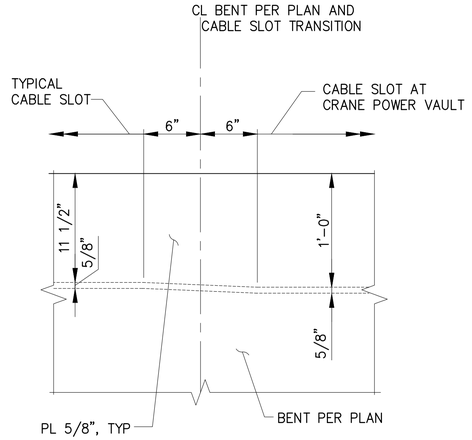
SECTION- CABLE SLOT TRANSITION AT CRANE POWER VAULTS

A / S31.1 — SCALE: 1/2"=1'–0"



DETAIL-CABLE SLOT TRANSITION

2 / S31.1 — SCALE: 3/4"=1'–0"



DETAIL

3 / – — SCALE: 1–1/2"=1'–0"

RECORD DRAWINGS

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 / Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:

DIRECTOR ENG. DATE

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
tlemons	Jul 20, 2018		

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
CRANE POWER VAULT DETAILS - SHEET 5

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

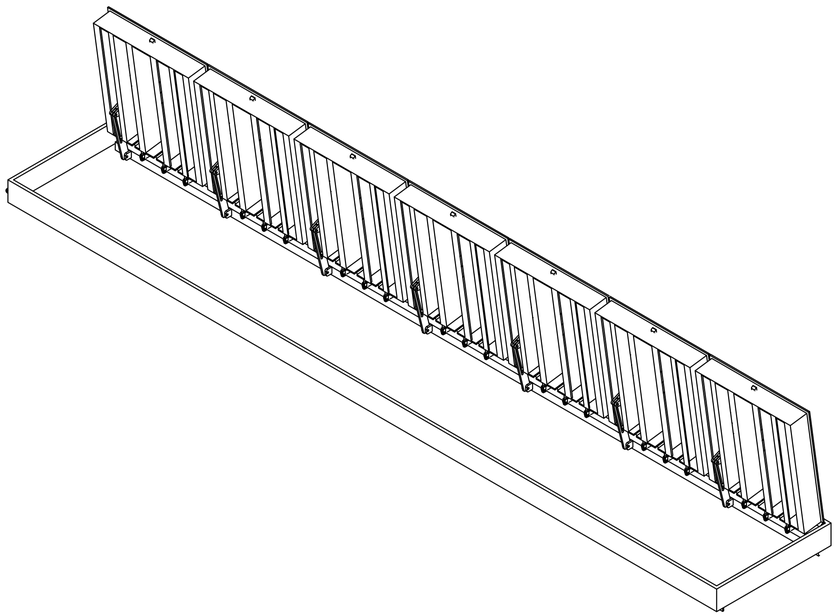
6552
S31.5
SH 361 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

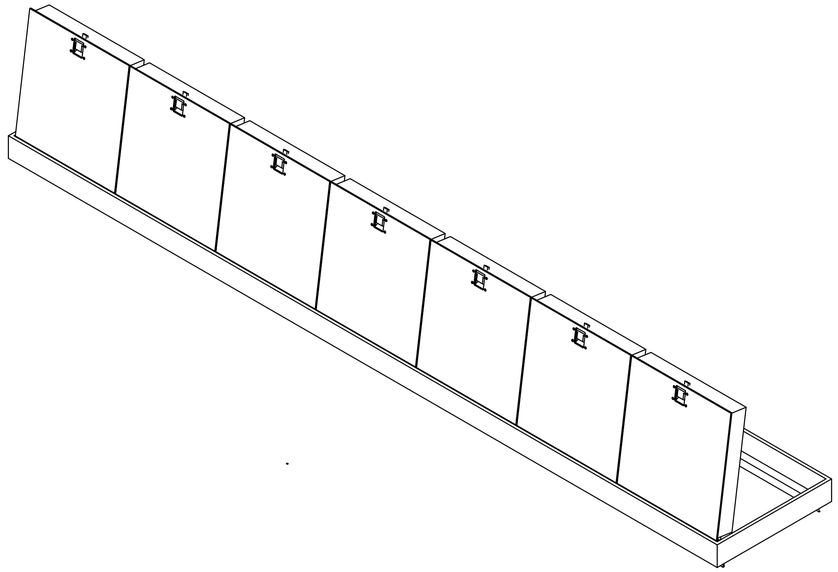
PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S31.5

BINDING EDGE



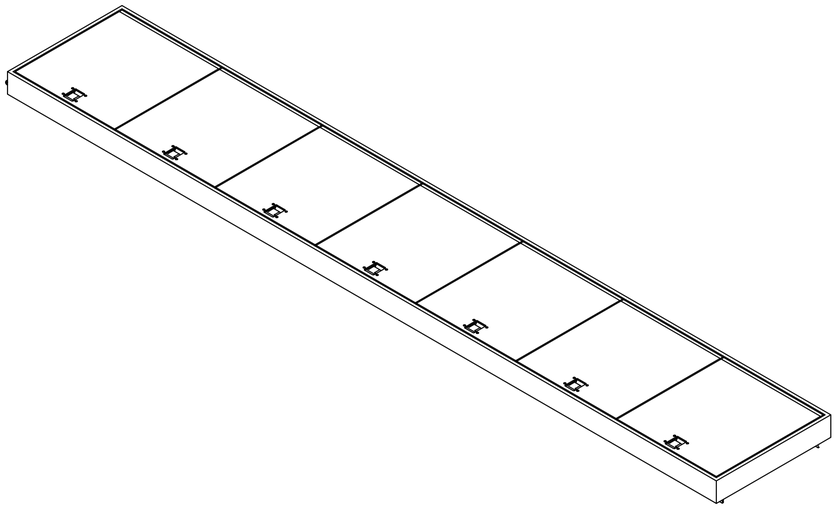
1 S31.1 **CRANE POWER VAULT LID ASSEMBLY VIEW FROM LANDSIDE**

NTS



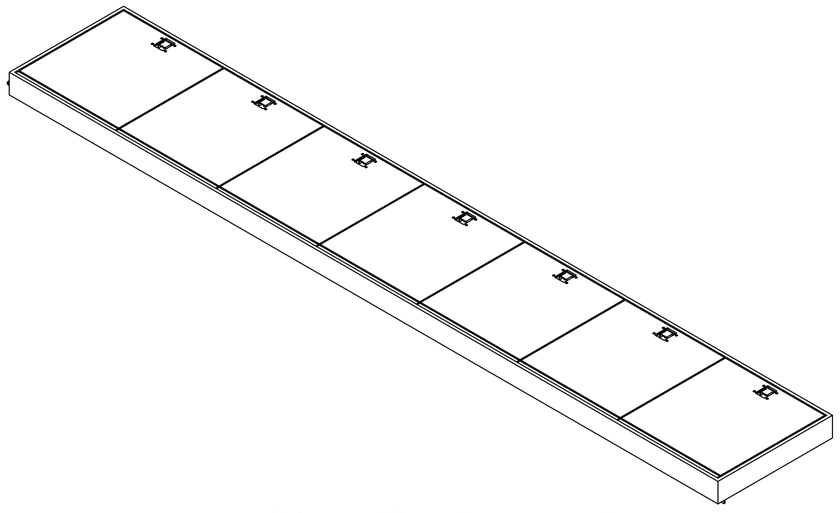
2 S31.1 **CRANE POWER VAULT LID ASSEMBLY VIEW FROM WATERSIDE**

NTS



3 S31.1 **CRANE POWER VAULT LID ASSEMBLY VIEW FROM LANDSIDE**

NTS



4 S31.1 **CRANE POWER VAULT LID ASSEMBLY FROM WATERSIDE**

NTS

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S31.6

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 / Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

		SEK	
		CHECKED BY	DATE
		TAH	
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

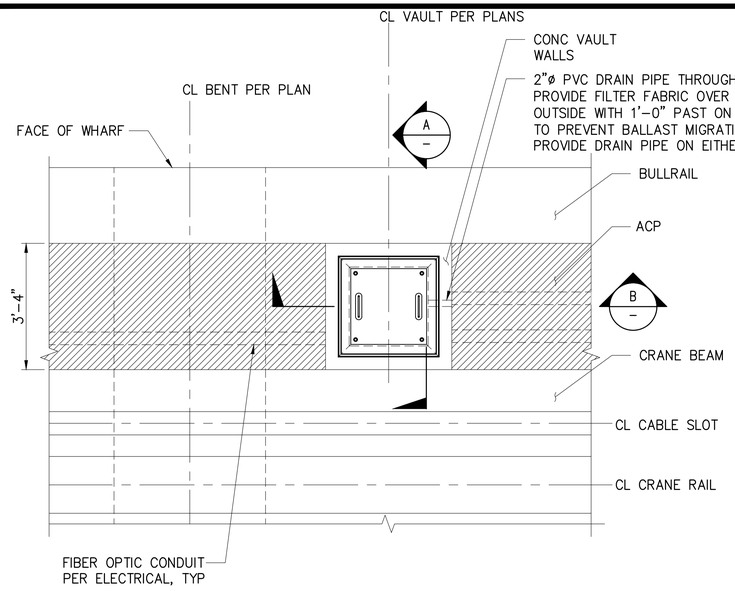
PIER 4 PHASE 2
RECONFIGURATION
CRANE POWER VAULT DETAILS - SHEET 6

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S31.6
SH 362 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

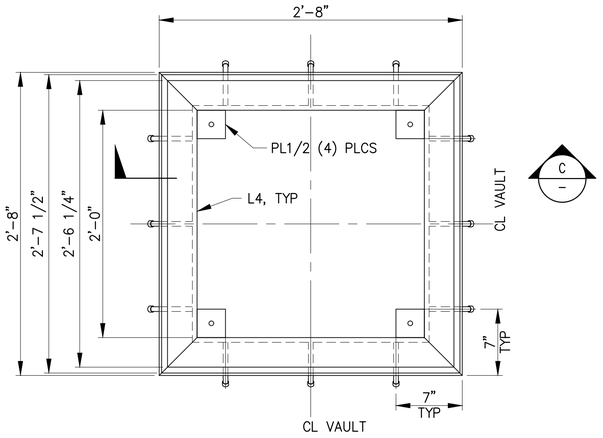


FIBER OPTIC VAULT PARTIAL PLAN

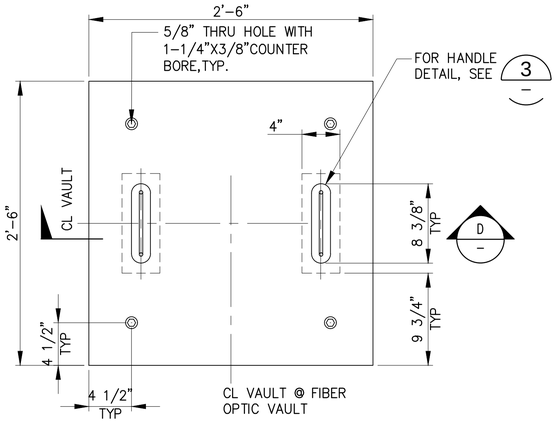
1 — S3.1, S3.2, S5.1 — 1/2"=1'-0"

NOTE:

PAINT DESIGNATOR SIGN – "FIBER OPTIC" ON TOP OF LID. USE HELVITICA FONT 4" TALL TEXT. SEE SPECIFICATIONS FOR COLOR.



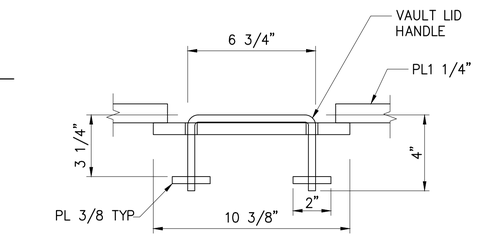
LID FRAMING



LID

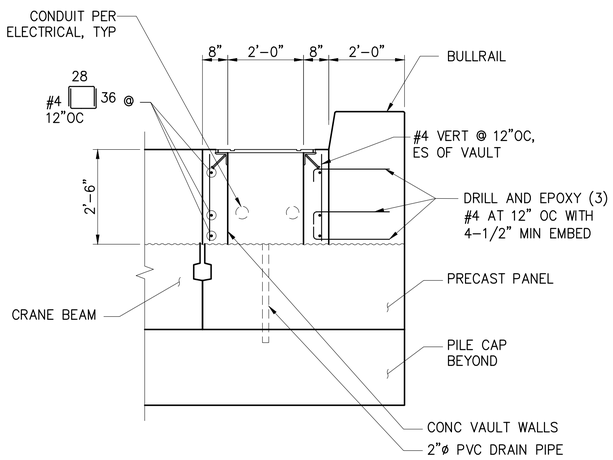
FIBER OPTIC VAULT LID DETAIL

2 — S29.1, S31.7 — 1 1/2"=1'-0"



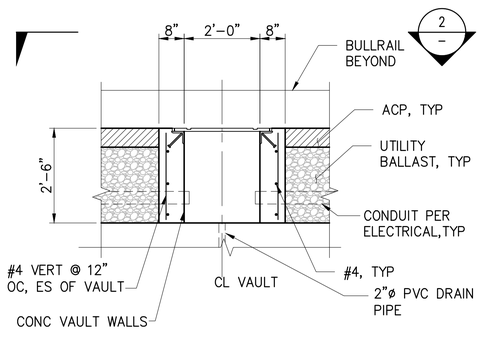
HANDLE DETAIL

3 — 3"=1'-0"



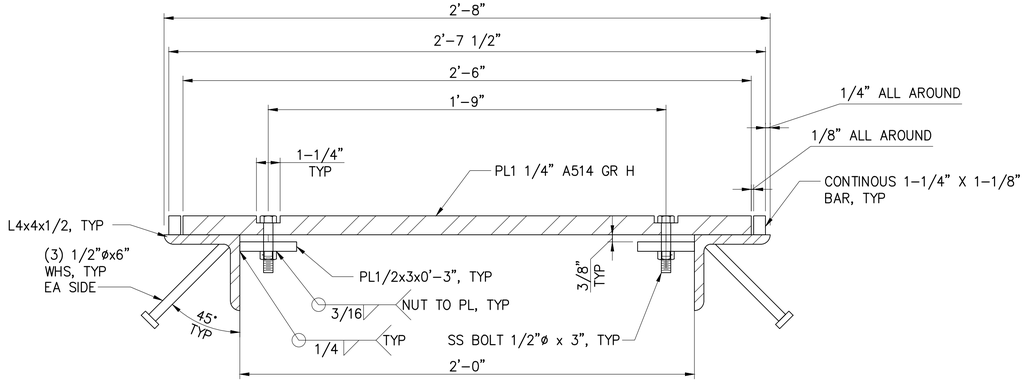
FIBER OPTIC VAULT SECTION

A — 1/2"=1'-0"



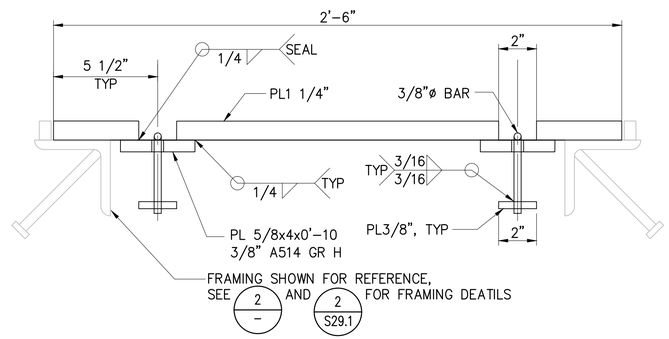
FIBER OPTIC VAULT SECTION

B — 1/2"=1'-0"



FIBER OPTIC VAULT LID & FRAME SECTION

C — S29.1, S31.7 — 3"=1'-0"



FIBER OPTIC VAULT LID SECTION

D — S29.1, S31.7 — 3"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	CHECKED BY DATE
TAH	PROJ. ENGR DATE
tlemons Jul 20, 2018	DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
FIBER OPTIC VAULT DETAILS

6552
S31.7
SH 363 OF 499

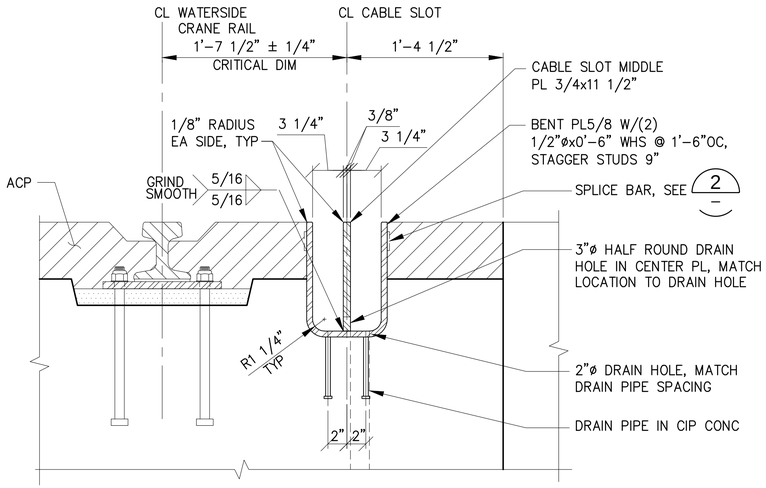
CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

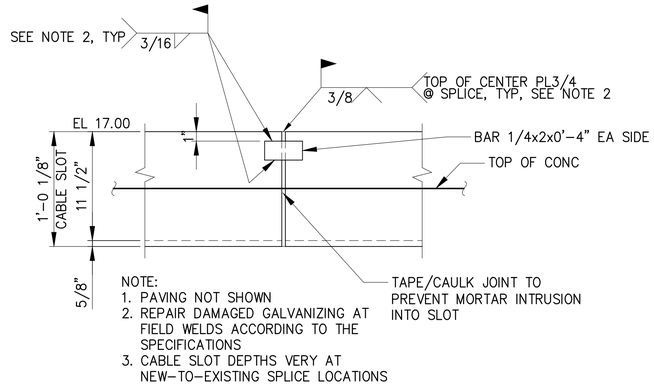
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S31.7

BINDING EDGE



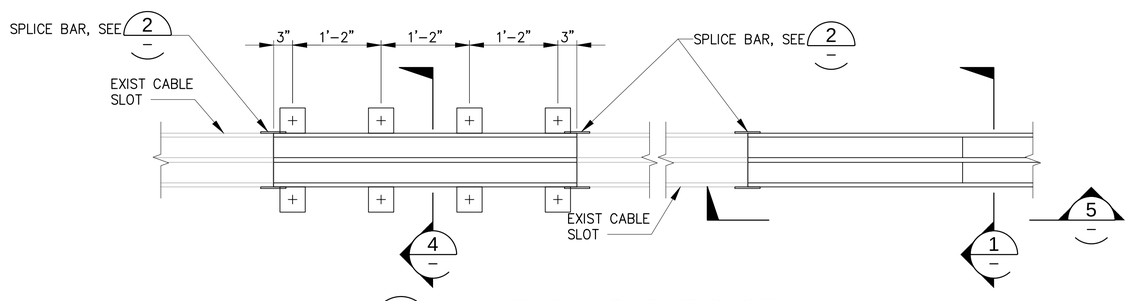
SECTION - TYPICAL DUAL CABLE SLOT

1 — S17.1, S17.2, S31.5 — 1 1/2"=1'-0"



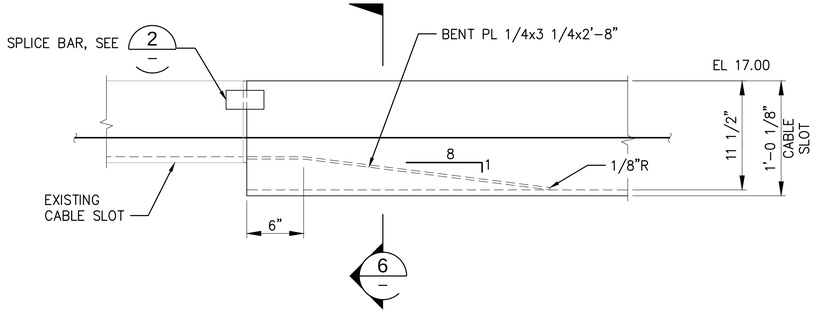
ELEVATION - CABLE SLOT AT SPLICE

2 — S21.3 — 1 1/2"=1'-0"



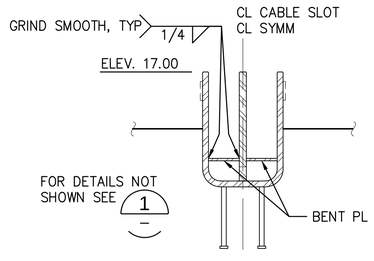
PLAN - CABLE SLOT

3 — S5.6 — 1" = 1'-0"



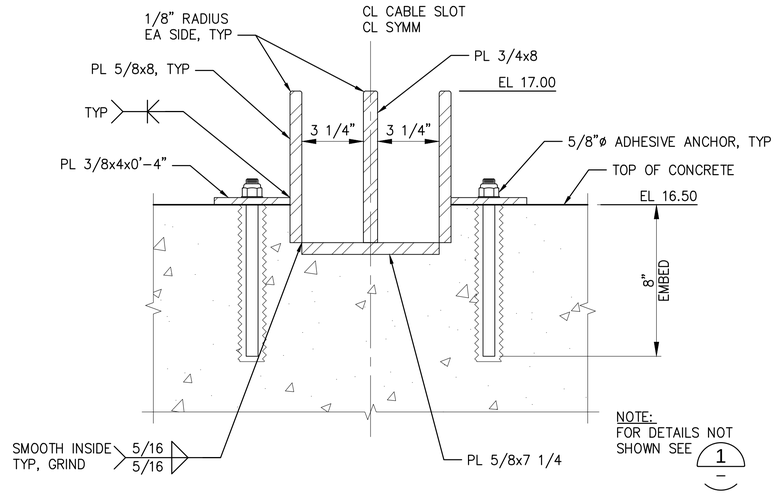
CABLE SLOT TRANSITION

5 — 1 1/2" = 1'-0"



SECTION

6 — 1 1/2" = 1'-0"



SECTION - BOLT DOWN CABLE SLOT

4 — 3" = 1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S32.1

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE

SEK
CHECKED BY DATE
TAH
PROJ. ENGR DATE

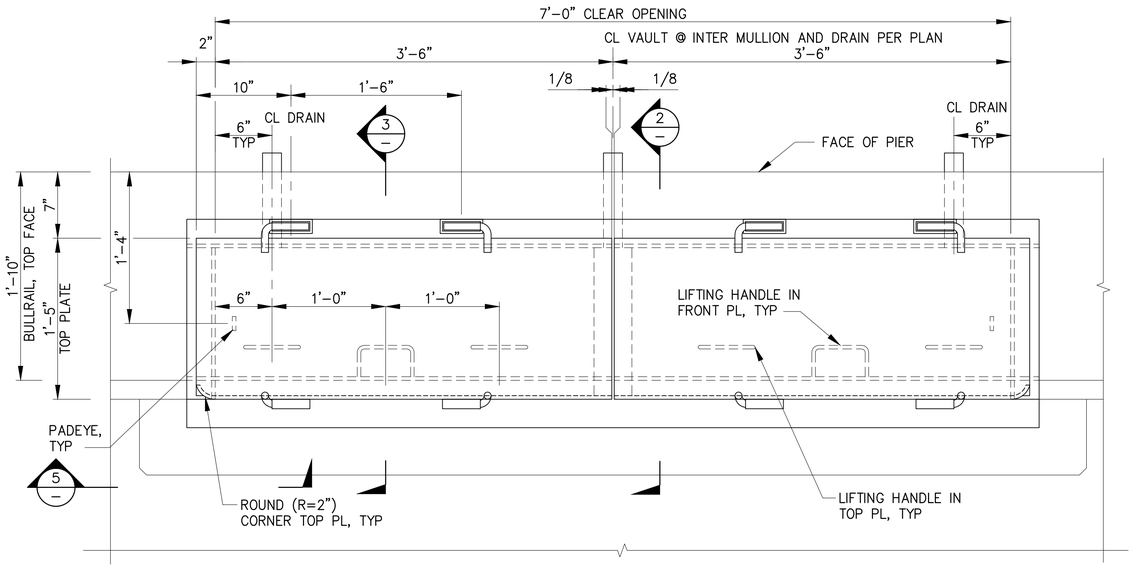
PIER 4 PHASE 2
RECONFIGURATION
CRANE CABLE SLOT DETAILS

6552
S32.1
SH 364 OF 499

CONT/CONS:	0701136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



1 PLAN - UTILITY VAULT

S3.1, S3.2, S5.1, S18.1, S18.3 1 1/2"=1'-0"

NOTE:

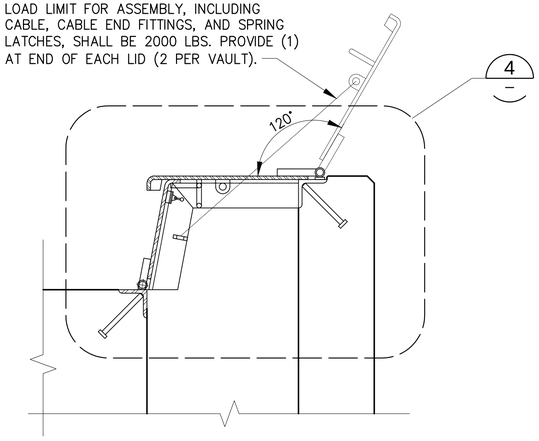
1. PAINT DESIGNATOR SIGNS – "WATER" & "ELECTRICAL" ON TOP OF RESPECTIVE VAULT LIDS USE HELVITICA FONT 4" TALL TEXT. SEE SPECIFICATIONS FOR COLOR.

2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL PENETRATIONS PRIOR TO FABRICATION AND SHOW ON SHOP DWGS.

3. FOR TYPICAL REINFORCEMENT DETAILS AT UTILITY VAULTS, SEE 1/S25.1

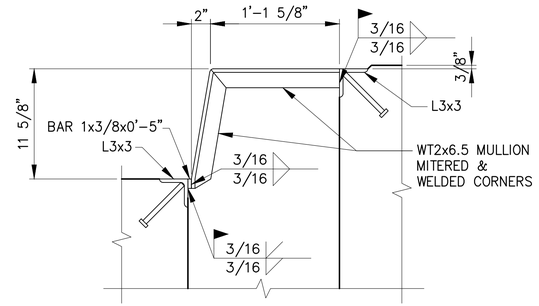
4. FOR REINFORCEMENT DETAILS AT UTILITY VAULT AT LOCATIONS WITH TIE DOWN VAULTS, SEE 1/S25.1

GALV AIRCRAFT CABLE ASSEMBLY W/SPRING LATCH AT EACH END. MINIMUM WORKING LOAD LIMIT FOR ASSEMBLY, INCLUDING CABLE, CABLE END FITTINGS, AND SPRING LATCHES, SHALL BE 2000 LBS. PROVIDE (1) AT END OF EACH LID (2 PER VAULT).



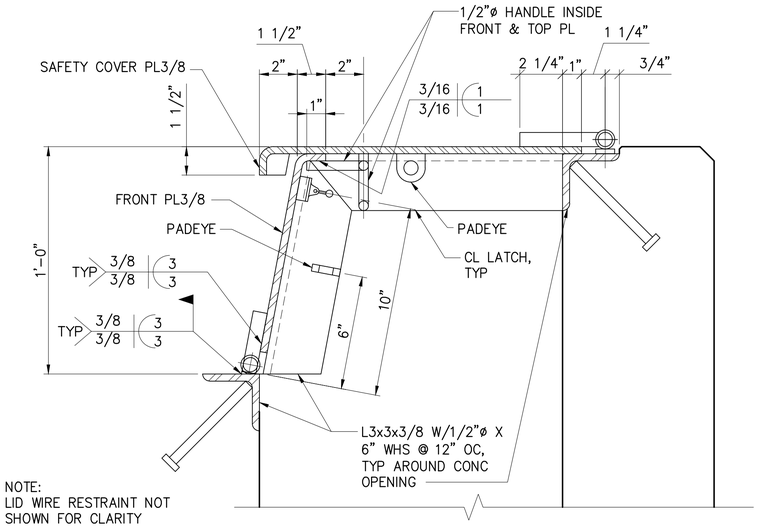
3 SECTION - UTILITY VAULT

1 1/2"=1'-0"



2 SECTION - INTERMEDIATE MULLION

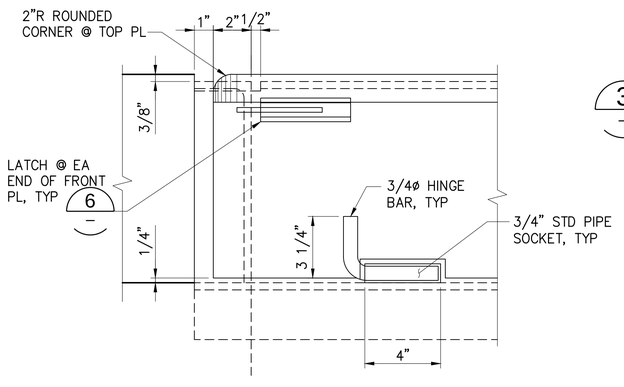
1 1/2"=1'-0"



NOTE:
LID WIRE RESTRAINT NOT SHOWN FOR CLARITY

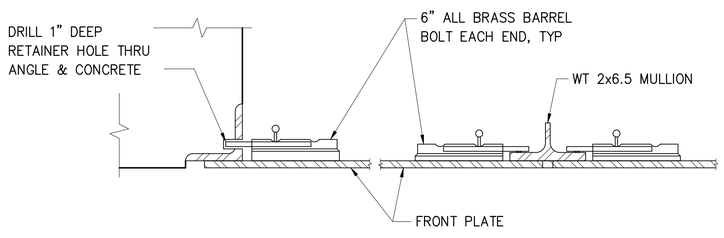
4 DETAIL - UTILITY VAULT

3"=1'-0"



5 ELEVATION - FRONT PLATE

3"=1'-0"



6 LATCH DETAIL

3"=1'-0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	CHECKED BY	DATE
		SEK	
PROJ. ENGR	DATE	DRAWN BY	DATE
		TAH	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
BULLRAIL UTILITY VAULT DETAILS

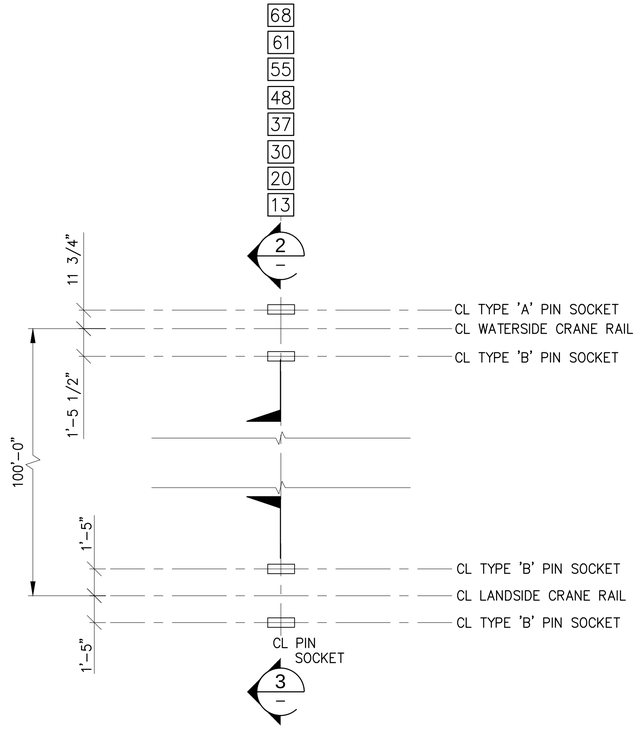
CONT/CONS: 0701/36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S33.1
SH 365 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

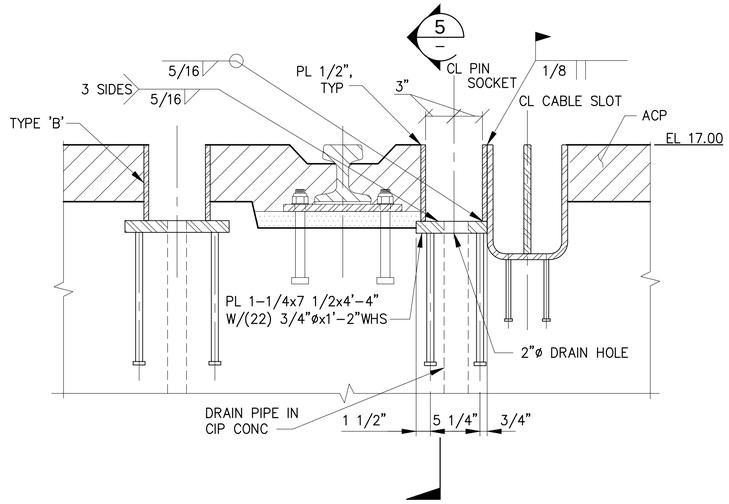
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S33.1



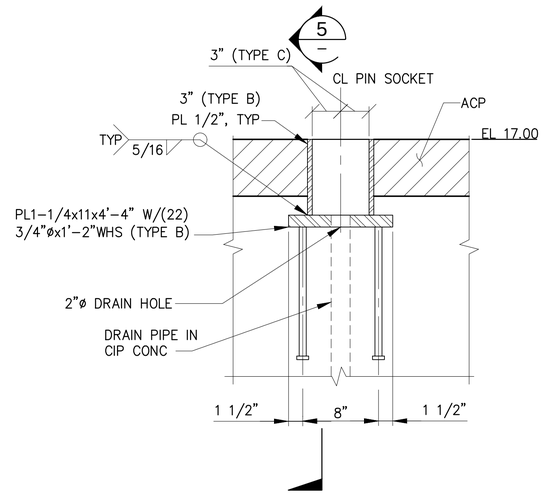
1 PLAN - CRANE PIN SOCKETS

S3.1, S3.2, S5.1, S14.1, S15.1, S15.1, S16.1, S17.11/4"=1'-0"



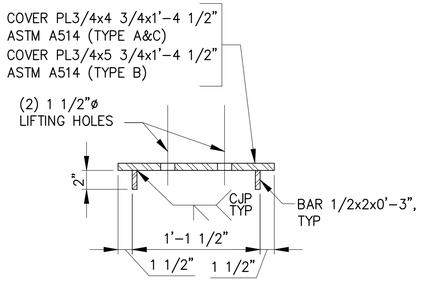
2 SECTION - TYPE 'A' CRANE PIN SOCKET

1 1/2"=1'-0"



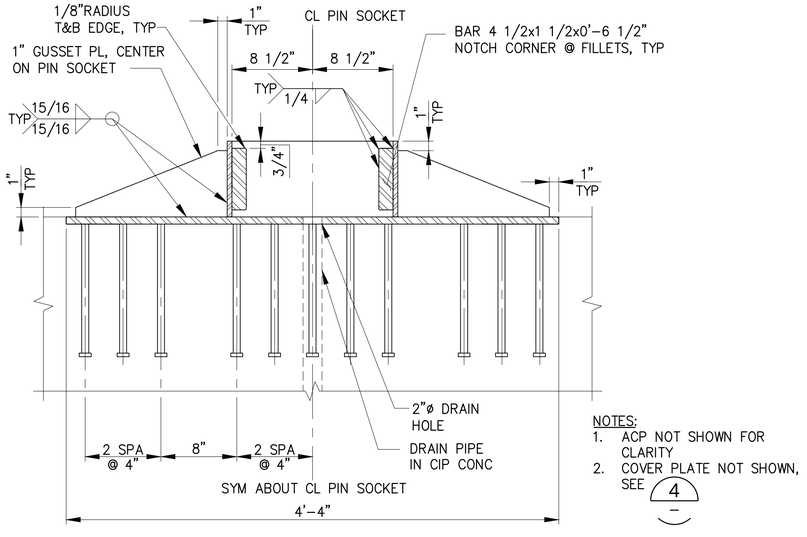
3 SECTION - TYPE 'B' CRANE PIN SOCKET

1 1/2"=1'-0"



4 SECTION - COVER PLATE

1 1/2" = 1'-0"



NOTES:
1. ACP NOT SHOWN FOR CLARITY
2. COVER PLATE NOT SHOWN, SEE 4

5 SECTION - TYPICAL CRANE PIN SOCKET

1 1/2"=1'-0"

PROJECT NORTH

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
CRANE PIN SOCKET DETAILS

DIRECTOR ENG. DATE			
PRINTED BY: tiemons Jul 20, 2018	SEK	CHECKED BY	DATE
PORT ADDRESS: ONE SITCUM PLAZA	TAH	PROJ. ENGR	DATE
TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED		

6552
S34.1
SH 366 OF 499

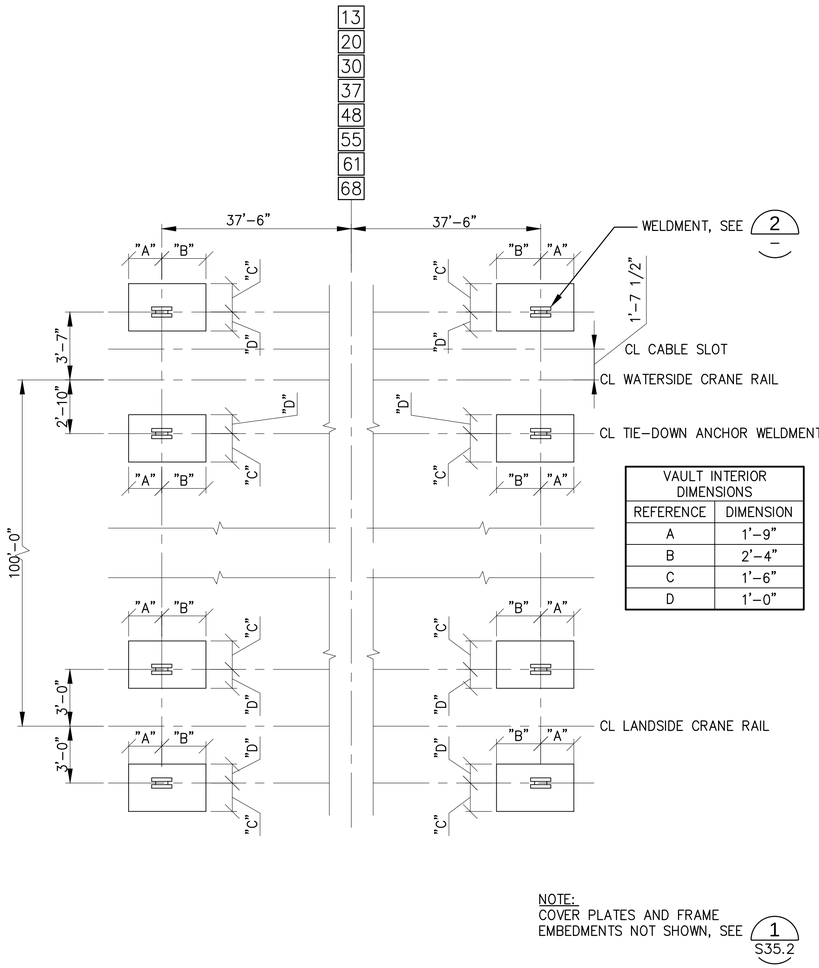
CONT/CONS: 0701361	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S34.1

BINDING EDGE



VAULT INTERIOR DIMENSIONS	
REFERENCE	DIMENSION
A	1'-9"
B	2'-4"
C	1'-6"
D	1'-0"

NOTE:
COVER PLATES AND FRAME EMBEDMENTS NOT SHOWN, SEE 1/S35.2

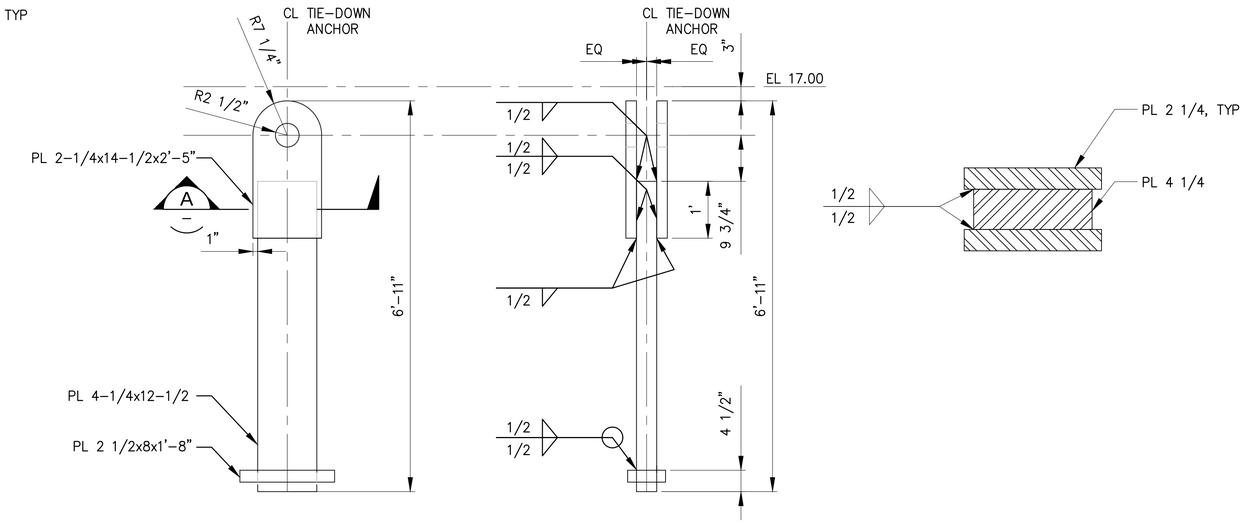
PLAN
1 CRANE TIE-DOWN VAULTS

S3.1, S3.2, S5.1, S11.4–S11.6, S15.1, S15.3, S27.4, S27.5, S27.10, S27.43

1/4"=1'-0"

NOTE TO CRANE SUPPLIER:

1. THE TIE-DOWN SYSTEM ON THE CRANES SHALL BE DESIGNED TO EQUALIZE THE LOADS BETWEEN THE (2) TIE-DOWN ANCHORS AT EACH CORNER OF THE CRANE.



DETAIL - CRANE TIE-DOWN DOWN ANCHOR WELDMENT
2

S11.4–S11.6, S15.3

3/4"=1'-0"

SECTION
A

1-1/2"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S35.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

PROJ. ENGR DATE

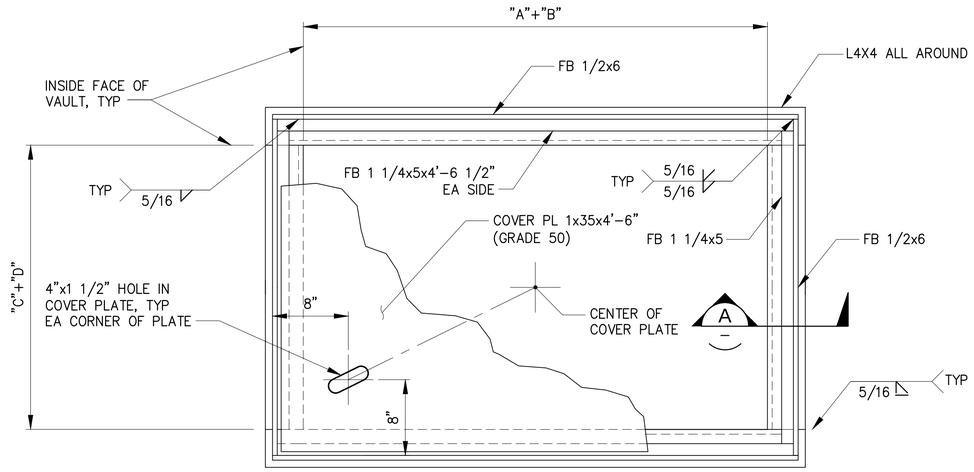
PIER 4 PHASE 2
RECONFIGURATION
CRANE TIE-DOWN DETAILS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39 @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S35.1
SH 367 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



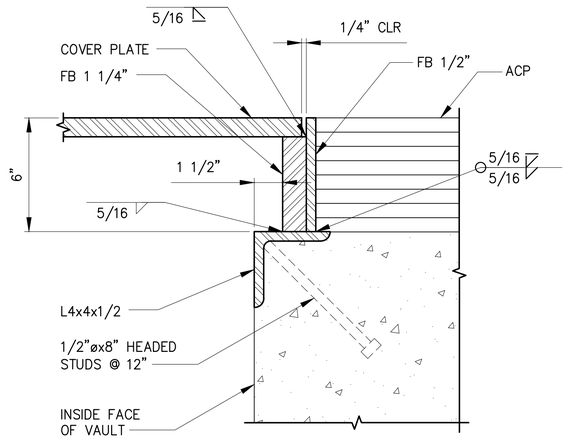
NOTE:

SEE S35.1 FOR "A", "B", "C" AND "D" DIMENSIONS

PLAN - TIE-DOWN VAULT FRAME

1 / S35.1

1-1/2"=1'-0"



SECTION - COVER PLATE SUPPORT

A / –

3"=1'-0"

RECORD DRAWINGS

6552

S35.2

SH 368 OF 499

PIER 4 PHASE 2 RECONFIGURATION

CRANE TIE-DOWN DETAILS - SHEET 2

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

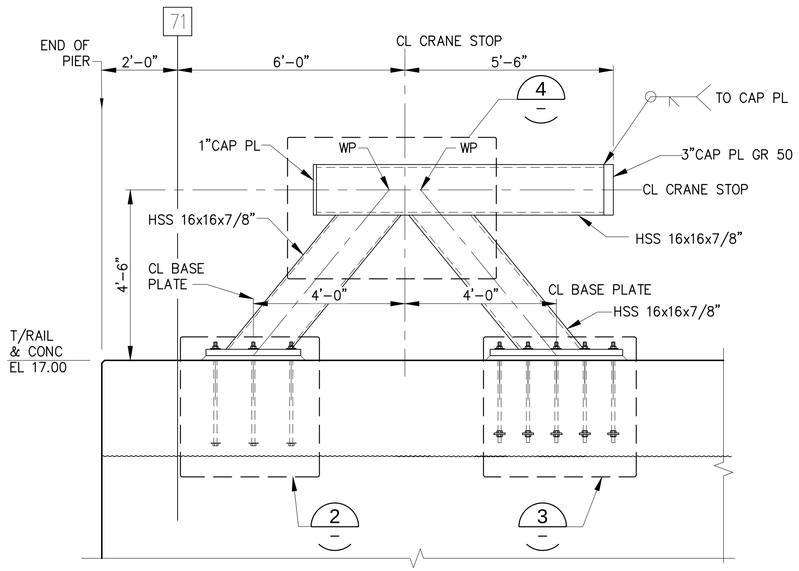
SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

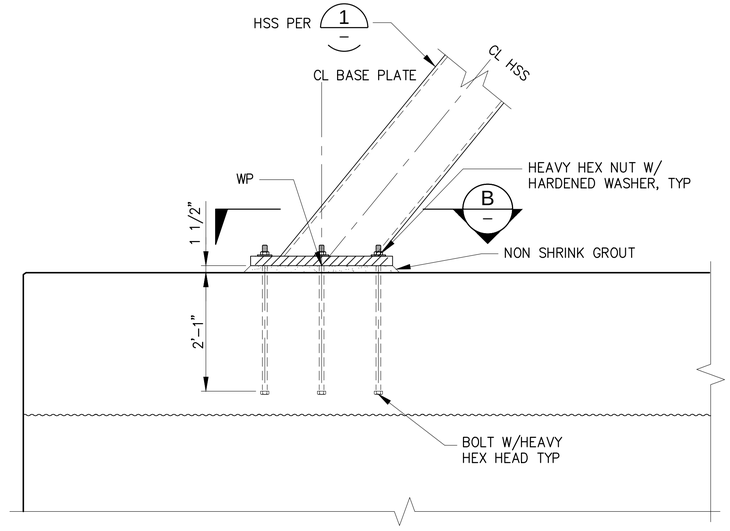
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S35.2



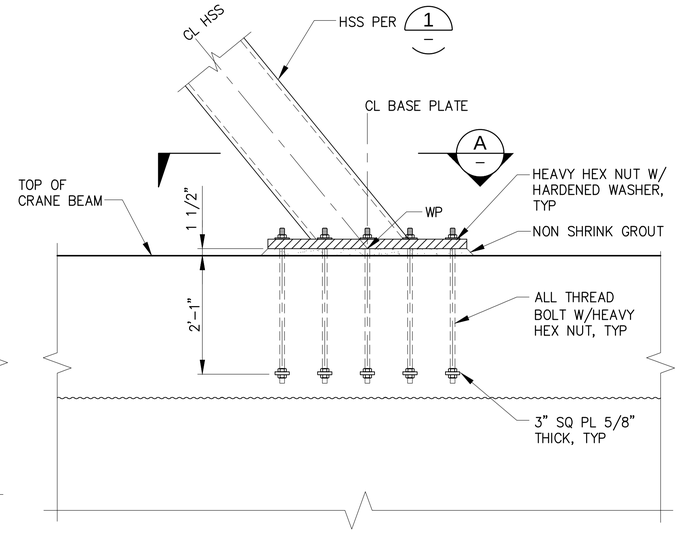
1 ELEVATION-CRANE STOPS LANDSIDE AND WATERSIDE

S5.1, S14.1, S16.1, S15.2, S27.45, S27.48 1/2" = 1'-0"



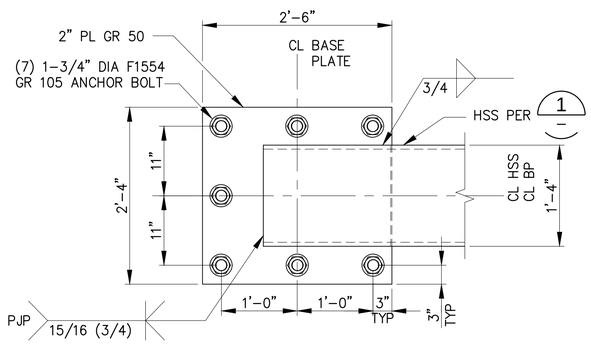
2 DETAIL- CRANE STOP BASE PLATE ANCHORING- BACK POST

3/4" = 1'-0"



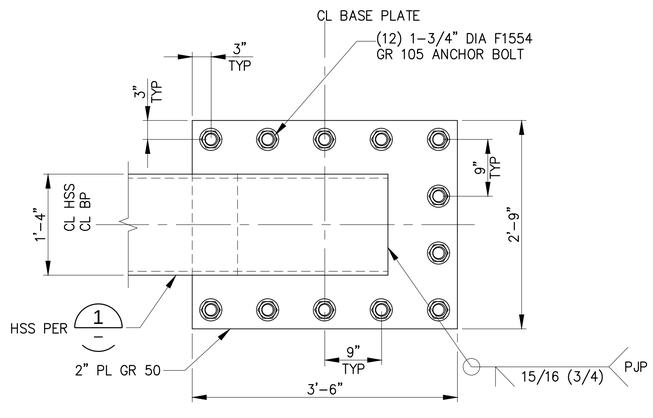
3 DETAIL- CRANE STOP BASE PLATE ANCHORING - FRONT POST

3/4" = 1'-0"



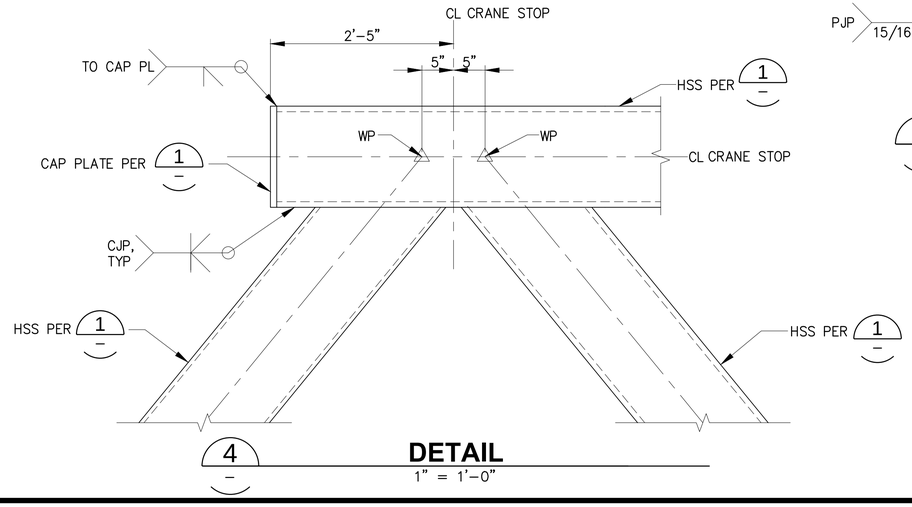
B SECTION- CRANE STOP BASE PLATE- BACK POST

1" = 1'-0"



A SECTION- CRANE STOP BASE PLATE- FRONT POST

1" = 1'-0"



4 DETAIL

1" = 1'-0"

RECORD DRAWINGS

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	4/28/2016

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
CRANE STOP DETAILS

DIRECTOR ENG.	DATE	CHECKED BY	DATE
		SEK	
PROJ. ENGR	DATE	DRAWN BY	DATE
		TAH	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

6552
S36.1
SH 369 OF 499

CONT/CONS:	070136	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091251	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:					

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

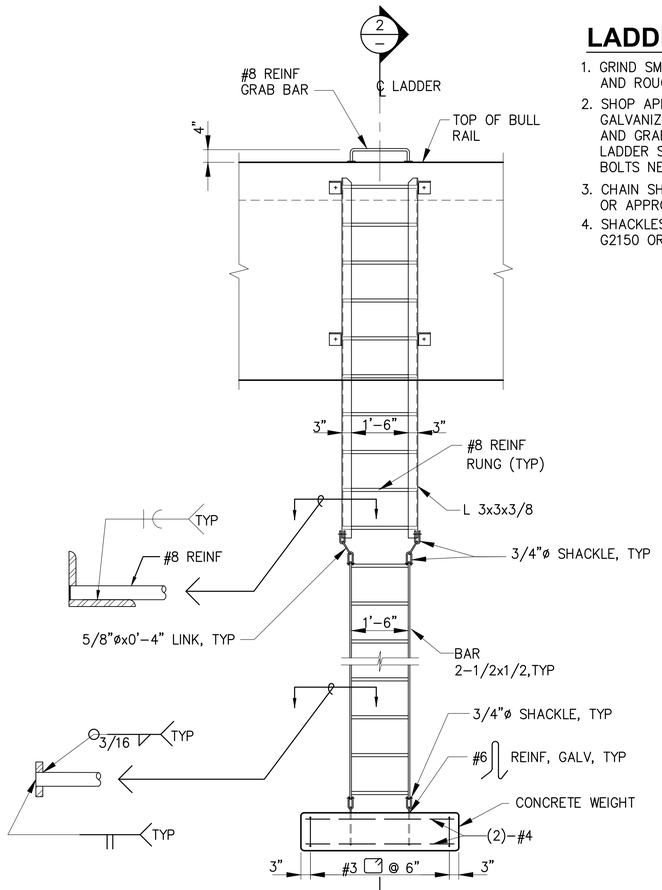
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S36.1

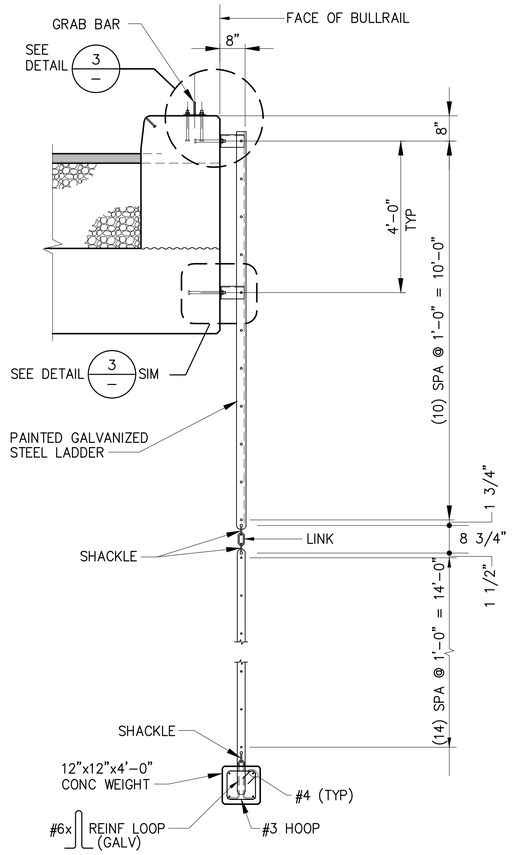
BINDING EDGE

LADDER NOTES:

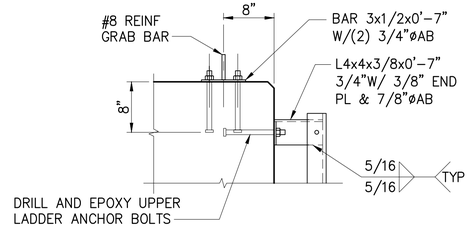
1. GRIND SMOOTH ALL SHARP CORNERS AND ROUGH EDGES AFTER FABRICATION.
2. SHOP APPLY MARINE COATING TO GALVANIZED STEEL PORTIONS OF LADDER AND GRAB BAR PER SPECIFICATIONS. LADDER SHACKELS, LINKS AND ANCHOR BOLTS NEED NOT BE PAINTED.
3. CHAIN SHALL BE CROSBY SPECTRUM 3, OR APPROVED EQUAL.
4. SHACKLES SHALL BE CROSBY BOLT-TYPE G2150 OR APPROVED EQUAL.



1 S3.1, S3.2, S5.1 **ELEVATION - LADDER** 1/2"=1'-0"



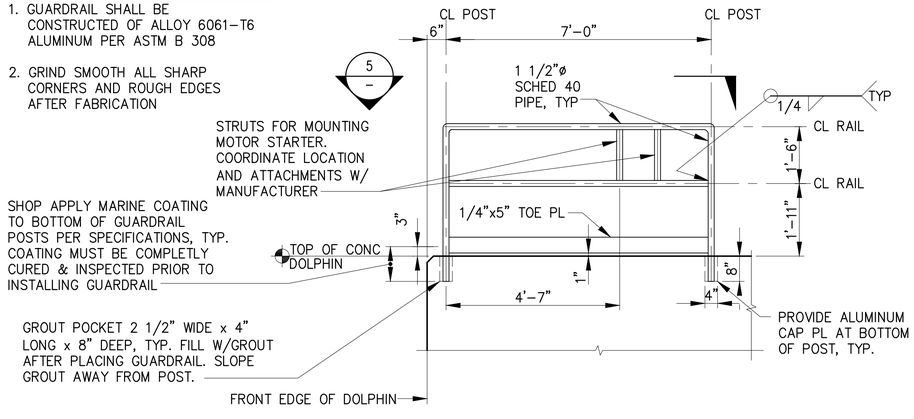
2 – **SECTION - LADDER** 1/2"=1'-0"



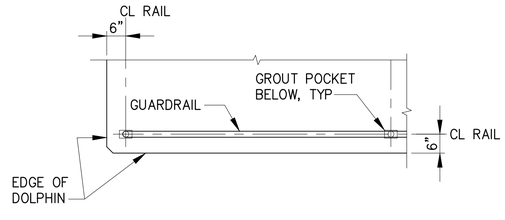
3 – **DETAIL** 1"=1'-0"

GUARDRAIL NOTES:

1. GUARDRAIL SHALL BE CONSTRUCTED OF ALLOY 6061-T6 ALUMINUM PER ASTM B 308
2. GRIND SMOOTH ALL SHARP CORNERS AND ROUGH EDGES AFTER FABRICATION



4 S42.1 **ELEVATION - GUARDRAIL AT DOLPHIN** 1/2"=1'-0"



5 – **PLAN - GUARDRAIL CORNER OF DOLPHIN** 1/2"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-I114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S37.1

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

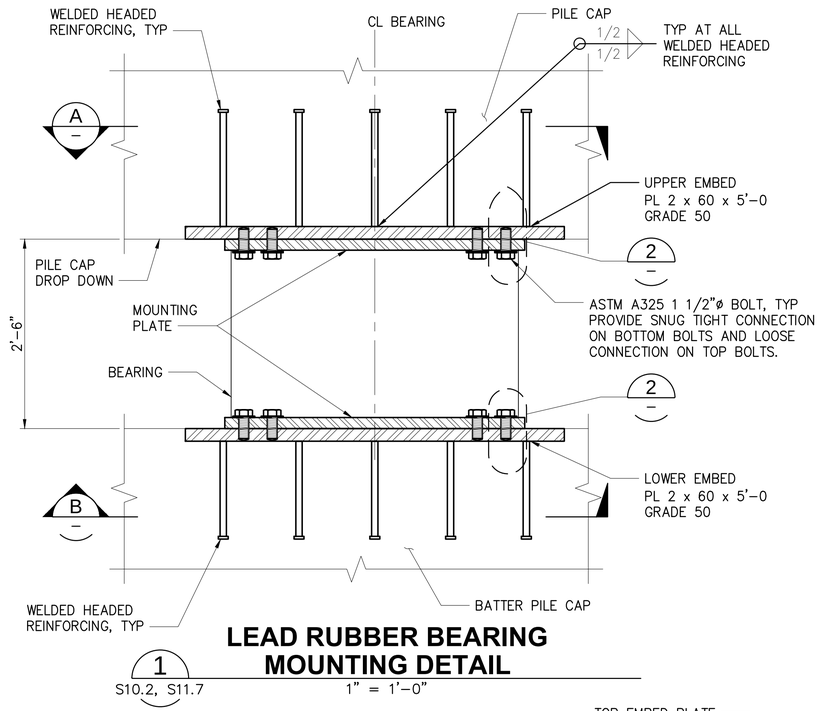
DIRECTOR ENG. DATE		SEK CHECKED BY DATE	
PRINTED BY: tlemons Jul 20, 2018	PROJ. ENGR	TAH DATE	
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED		

PIER 4 PHASE 2 RECONFIGURATION
MISCELLANEOUS STEEL DETAILS

CONT/CONS: 0701136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:		

6552
S37.1
SH 370 OF 499

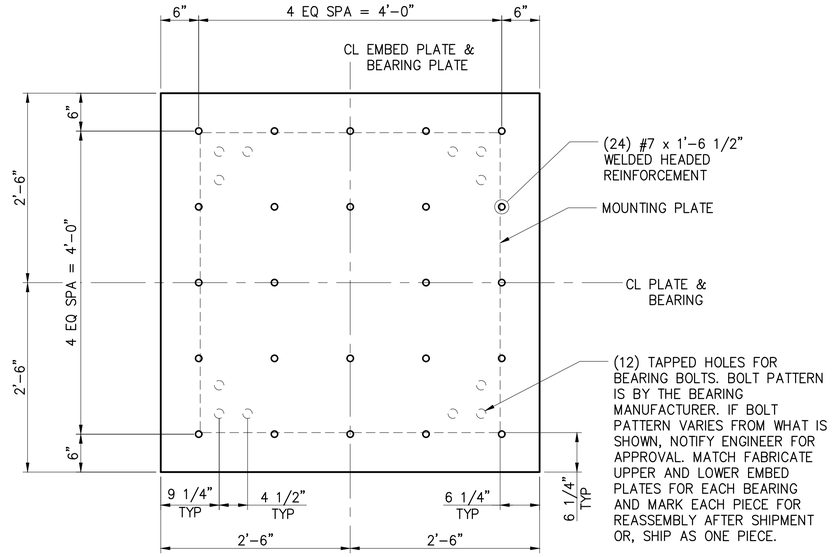
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



LEAD RUBBER BEARING MOUNTING DETAIL

1 S10.2, S11.7 — 1" = 1'-0"

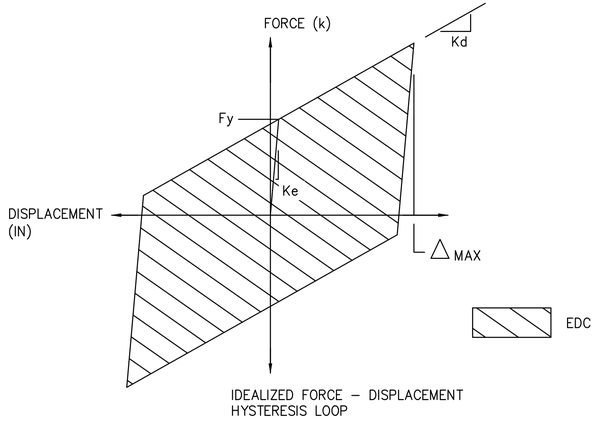
NOTE:
SEE SPECIFICATIONS FOR COATING REQUIREMENTS TOP AND BOTTOM MOUNTING PLATES AND UPPER AND LOWER EMBED PLATES.



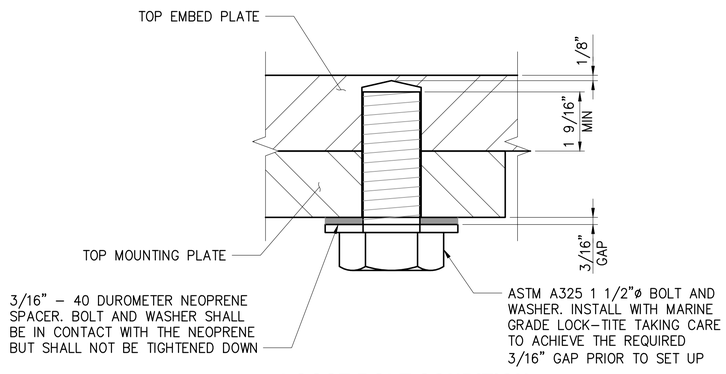
A UPPER EMBED PLATE

1" = 1'-0"

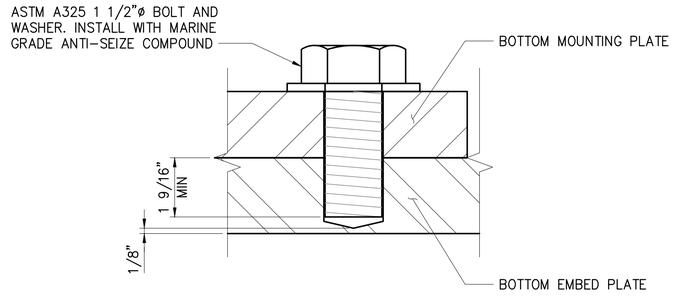
LEAD RUBBER BEARING PROPERTY	TARGET VALUES
RUBBER DIAMETER, D	45.5 IN
HEIGHT, H	30 IN
YELD STIFFNESS, Kd	6.0 KIP/IN
ELASTIC STIFFNESS, Ke	114.6 KIP/IN
MINIMUM VERTICAL STIFFNESS, Kv	16,000 KIP/IN
MINIMUM YIELD FORCE, Fy	202.5 KIP
MAXIMUM SEISMIC DISPLACEMENT, max Δ	28 IN
AXIAL LOAD RANGE ON BEARING AT AMOR, P	0 KIP TO 2000 KIP
DESIGN ENERGY DISSIPATION PER CYCLE PER BEARING, EDC	21991 IN-KIP



LEAD RUBBER BEARING PERFORMANCE REQUIREMENTS



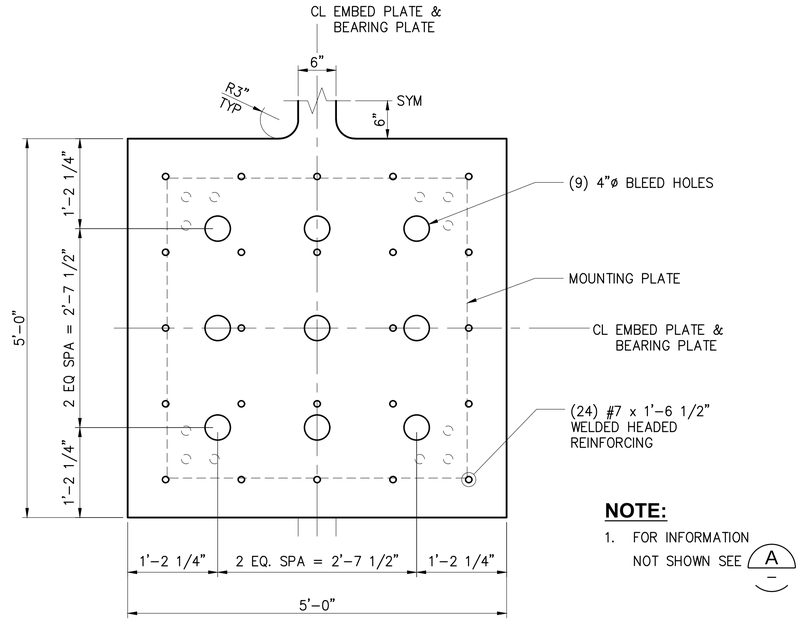
LOOSE BOLT CONDITION



SNUG TIGHT BOLT CONDITION

2 BOLT CONNECTION DETAILS

6" = 1'-0"



NOTE:

1. FOR INFORMATION NOT SHOWN SEE A

B LOWER EMBED PLATE

1" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

SEK CHECKED BY DATE

TAH PROJ. ENGR DATE

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2 RECONFIGURATION
LEAD RUBBER BEARING DETAILS

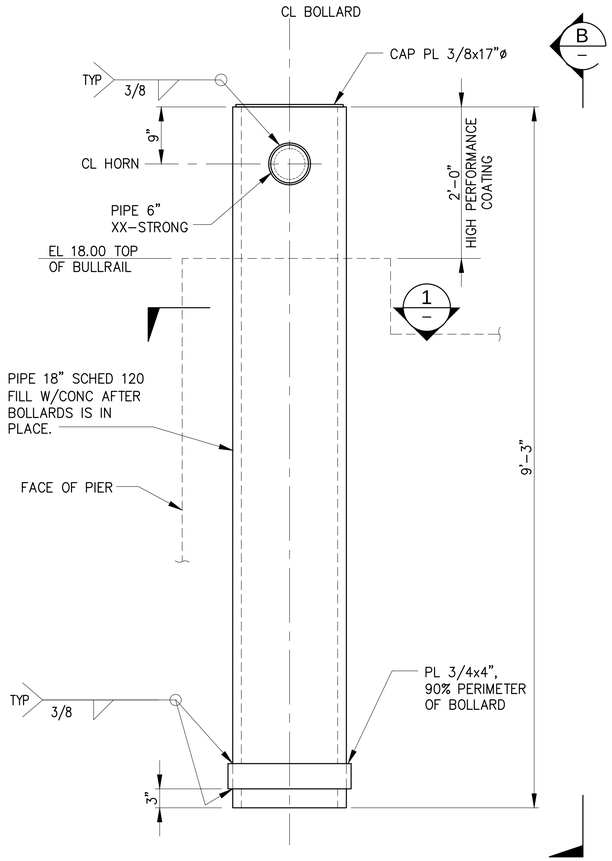
6552
S37.2
SH 371 OF 499

CONT/CONS:	0701136	TOWNSHIP: 27N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	SECTION: 27

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

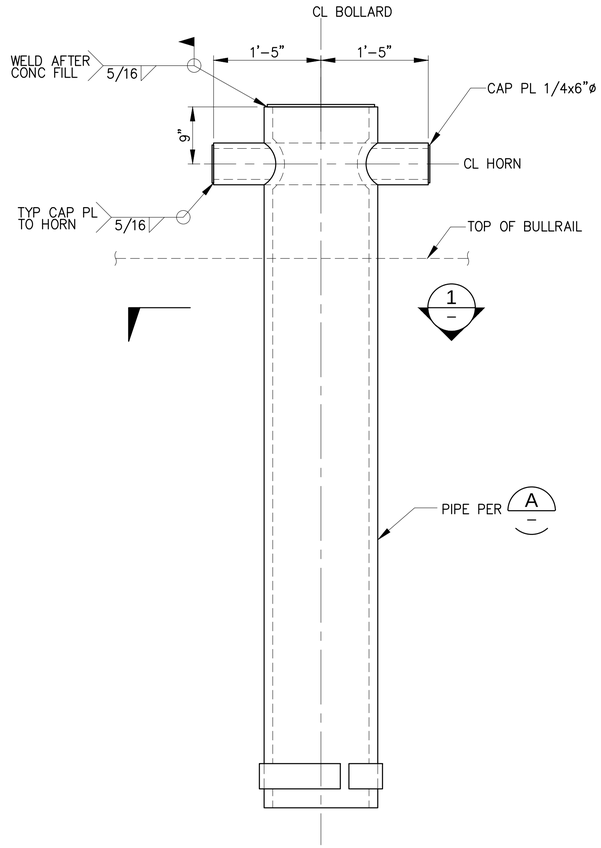
PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S37.2



SECTION
A PIER BOLLARD TYPE 1 - 100 TON

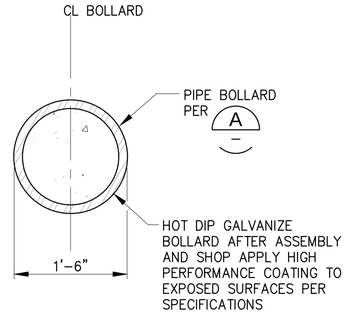
S3.1, S3.2, S5.1, S18.1, S9.9, S9.10, S9.11, S10.11

1"=1'-0"



SECTION
B

1"=1'-0"



DETAIL
1"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S38.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
BOLLARD DETAILS - PIER BOLLARD TYPE 1

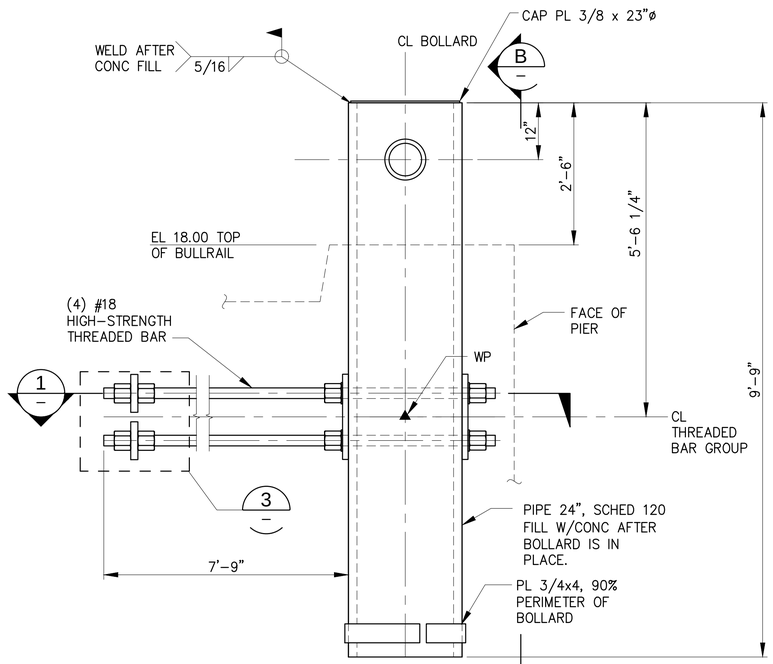
6552
S38.1
SH 372 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PROJ. ENGR DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

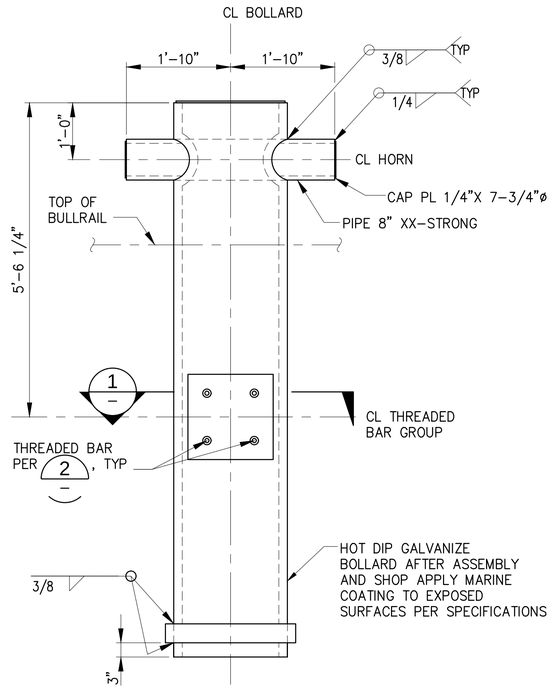
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

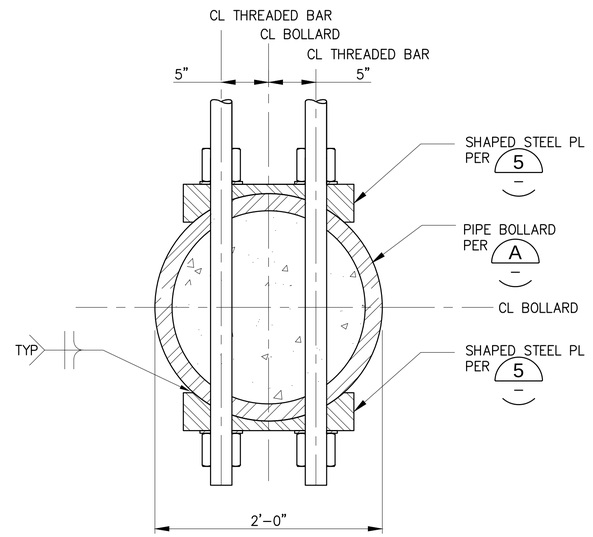


SECTION
A PIER BOLLARD TYPE 2 - 200 TON

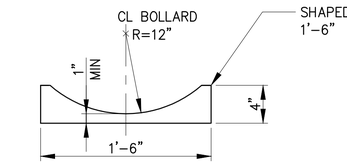
S3.2, S5.1, S18.1, S9.12, S9.13, S10.4, S10.10 3/4"-1'-0"



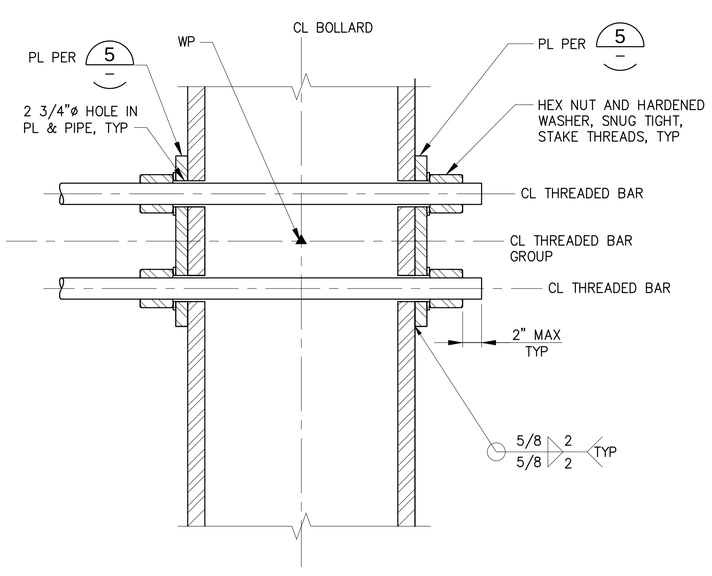
SECTION
B 3/4"=1'-0"



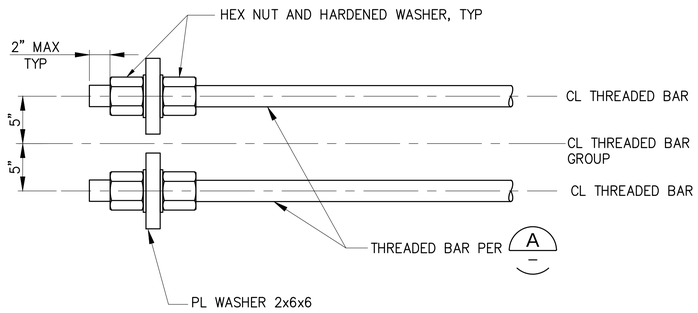
DETAIL
1 1/2"=1'-0"



DETAIL - SHAPE PLATE
5 1-1/2"=1'-0"



DETAIL
2 1 1/2"=1'-0"



DETAIL
3 1 1/2"=1'-0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S38.2

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

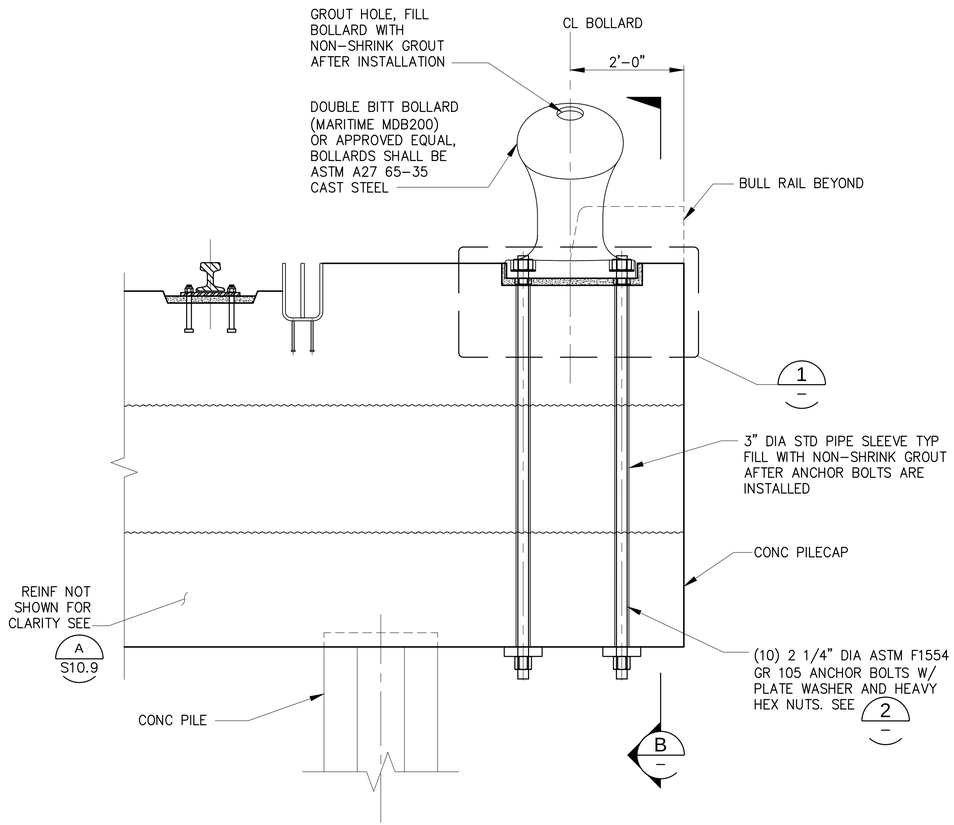
DIRECTOR ENG. DATE

DESIGNED:	SEK
CHECKED BY	DATE
DRAWN:	TAH
PROJ. ENGR	DATE
PRINTED BY:	tlemons Jul 20, 2018
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837

PIER 4 PHASE 2 RECONFIGURATION
BOLLARD DETAILS - PIER BOLLARD TYPE 2

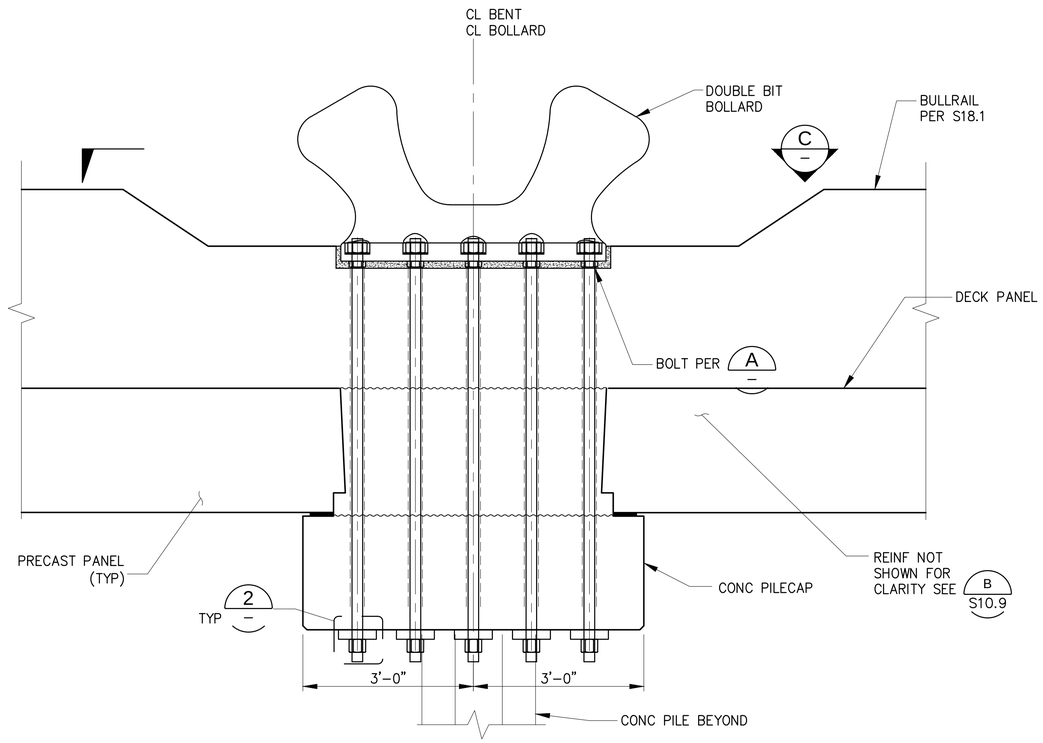
CONT/CONS:	070136
M. ID:	091251
PHASE:	CONFORMED
TOWNSHIP:	21N
RANGE:	3E
SECTION:	27
DAT-HRZ:	WA83-SF
VERT:	MLLW 19.39' @ Tide 22 1933
PARCEL:	
DRAWING SCALE:	AS NOTED

6552
S38.2
SH 373 OF 499



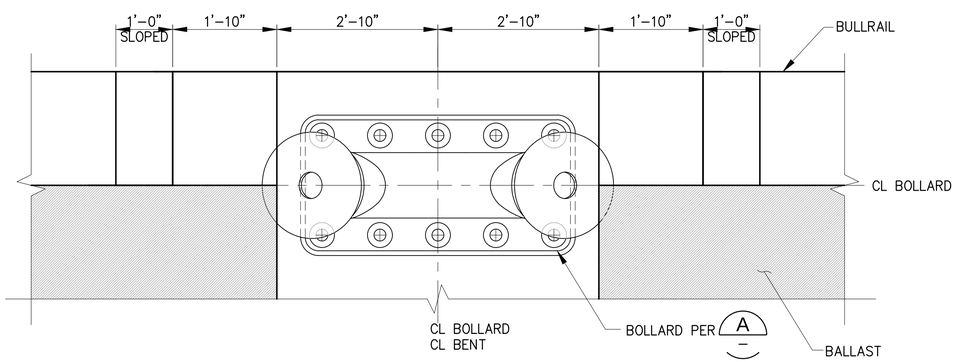
A SECTION - PIER DOUBLE BITT BOLLARD - 200 TON

S3.1, S9.2–S9.6, S9.8, S10.9, S18.1 3/4"=1'–0"



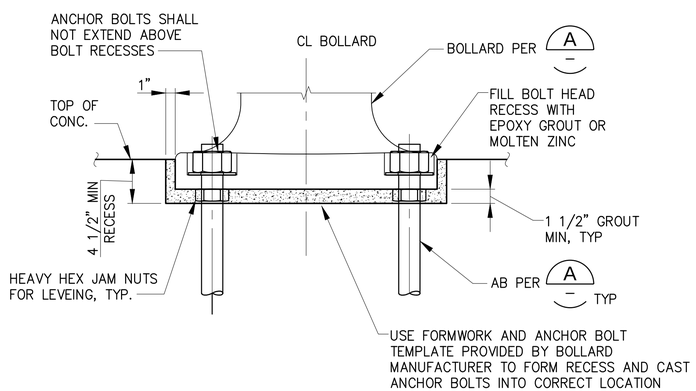
B SECTION

3/4"=1'–0"



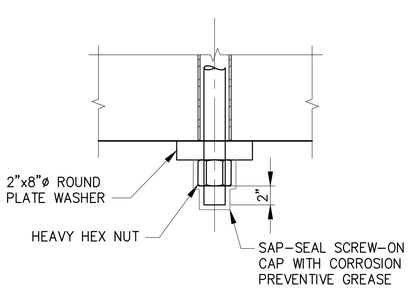
C DETAIL

3/4"=1'–0"



1 DETAIL

1 1/2"=1'–0"



2 DETAIL

1 1/2"=1'–0"

RECORD DRAWINGS

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
BOLLARD DETAILS - PIER DOUBLE BITT BOLLARD

6552
S38.3
SH 374 OF 499

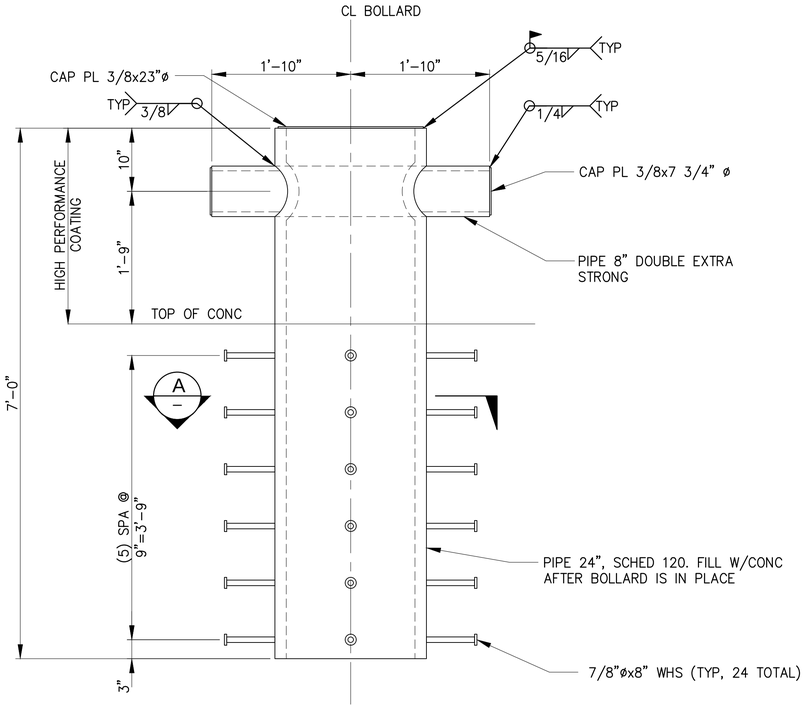
SEK CHECKED BY DATE			
TAH PROJ. ENGR DATE			
tlemons Jul 20, 2018			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY:
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

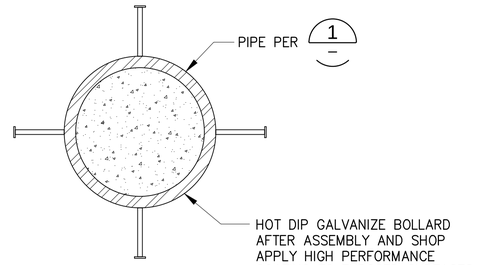
PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\CurrentPhase 2_091251\091251-S38.3



DETAIL - MOORING DOLPHIN BOLLARD: 200 TON

1 / S42.1

1"=1'-0"



A SECTION - MOORING DOLPHIN BOLLARD

1"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S38.4

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

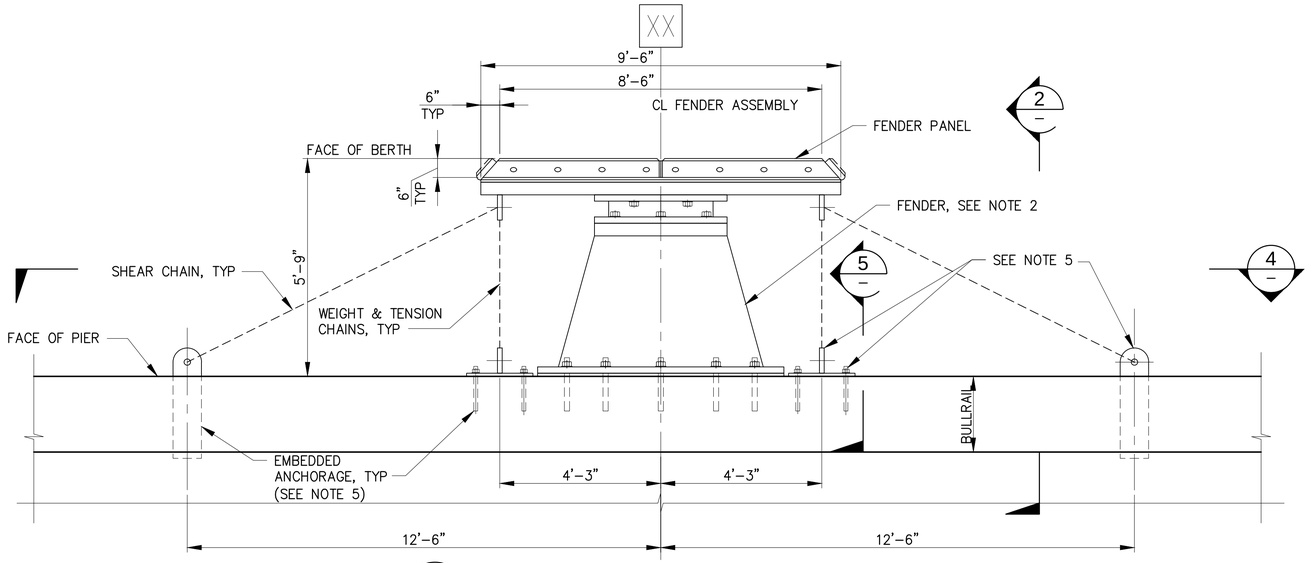
PIER 4 PHASE 2
RECONFIGURATION
BOLLARD DETAILS - MOORING DOLPHIN BOLLARD

6552
S38.4
SH 375 OF 499

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

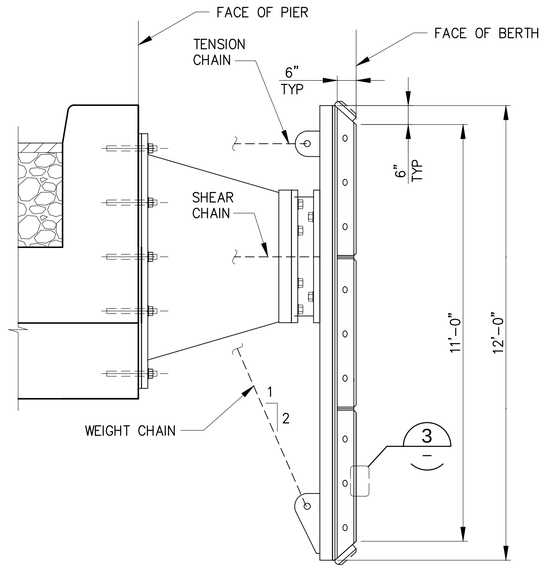
PRINTED BY: tlemons Jul 20, 2018 PROJ. ENGR DATE
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



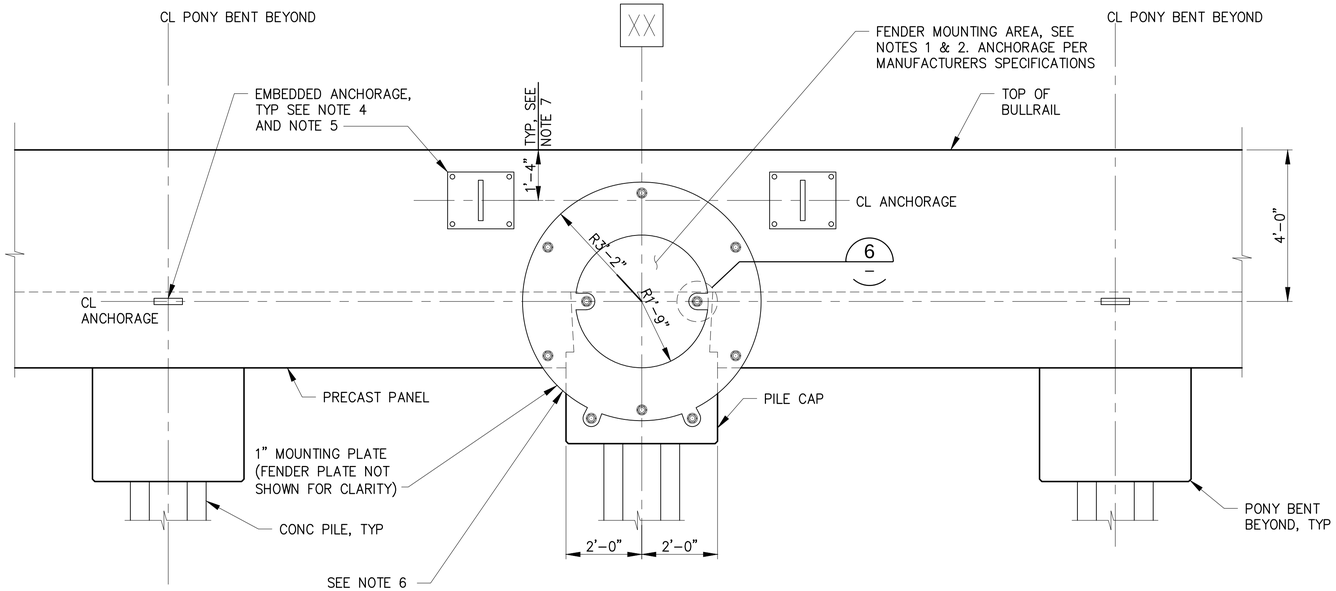
1 PLAN - TYPICAL FENDER

S3.1, S3.2, S5.1–5.6 — 1/2"=1'–0"



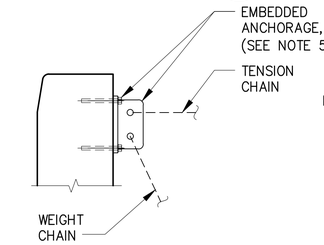
2 SECTION

1/2" = 1'–0"



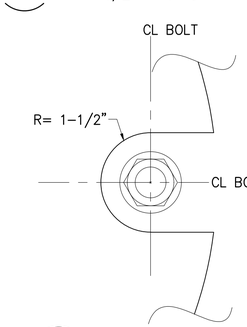
4 ELEVATION - TYPICAL FENDER

1/2"=1'–0"



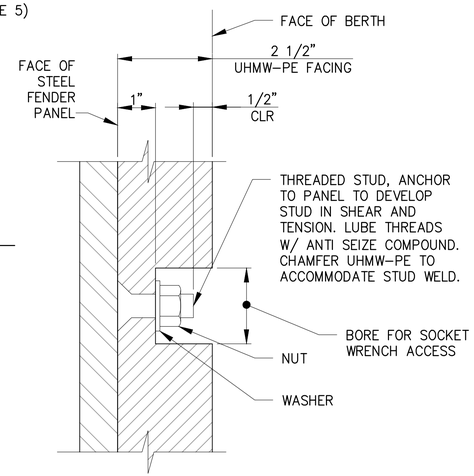
5 DETAIL

1/2" = 1'–0"



6 DETAIL

3" = 1'–0"



DETAIL - ATTACHMENT OF FACING

3 — 6" = 1'–0"

NOTES:

1. SEE DWGS S3.1–S3.2. FOR FENDER LOCATIONS. SEE SPECIFICATIONS FOR DEFLECTION LIMITS, MINIMUM ENERGY, MAXIMUM REACTION COATING REQUIREMENTS, AND OTHER REQUIREMENTS.
2. FENDER SHOWN IS REPRESENTATIVE OF AN ACCEPTABLE PRODUCT. OTHER PRODUCTS THAT FIT WITHIN THE AREA ALLOWED FOR FENDER ASSEMBLY AND MEET SPECIFIED ENERGY AND REACTION PERFORMANCE CHARACTERISTICS MAY BE ACCEPTED SUBJECT TO ENGINEER'S PRIOR APPROVAL.
3. COORDINATE LOCATION OF EMBEDDED ITEMS WITH PLACEMENT OF REINFORCING STEEL AND OTHER APPURTENANCES LOCATED ALONG FACE OF PIER AND BULLRAIL DURING SUBMITTAL PREPARATION.
4. PRIOR TO FABRICATING ANY MATERIALS FOR THE FENDER SYSTEM, VERIFY SIZE, DIMENSIONS, AND LOCATION OF ALL ITEMS, INCLUDING RUBBER FENDER, UHMW–PE FACING, FENDER PANEL, CHAINS, FENDER BOLTS, ANCHOR RODS OR BOLTS, EMBEDED PLATES, AND ETC. SO THAT TIGHT CONNECTIONS CAN BE MADE AND ALL COMPONENTS ARE COMPATIBLE AND SNUG UPON COMPLETION.
5. EMBEDDED ANCHORAGE IS PART OF THE FENDER ASSEMBLY AND SHALL BE DESIGNED AND PROVIDED BY THE FENDER ASSEMBLY MANUFACTURER.
6. PL1 3/4" SHIM AT BENT 24.
7. AT BENTS 39–44, LOWER FENDER EMBEDS AN ADDITIONAL 6" TO 1'–10" FROM TOP OF BULL RAIL AND PROVIDE (1) ADDITIONAL #5 STIRRUP CAP BAR ON EACH SIDE OF THE (2) TOP FENDER ANCHORS.

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

CHECKED BY	DATE
SEK	
TAH	

DIRECTOR ENG.	DATE	PROJ. ENGR

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
FENDER SYSTEM DETAILS

6552
S39.1
SH 376 OF 499

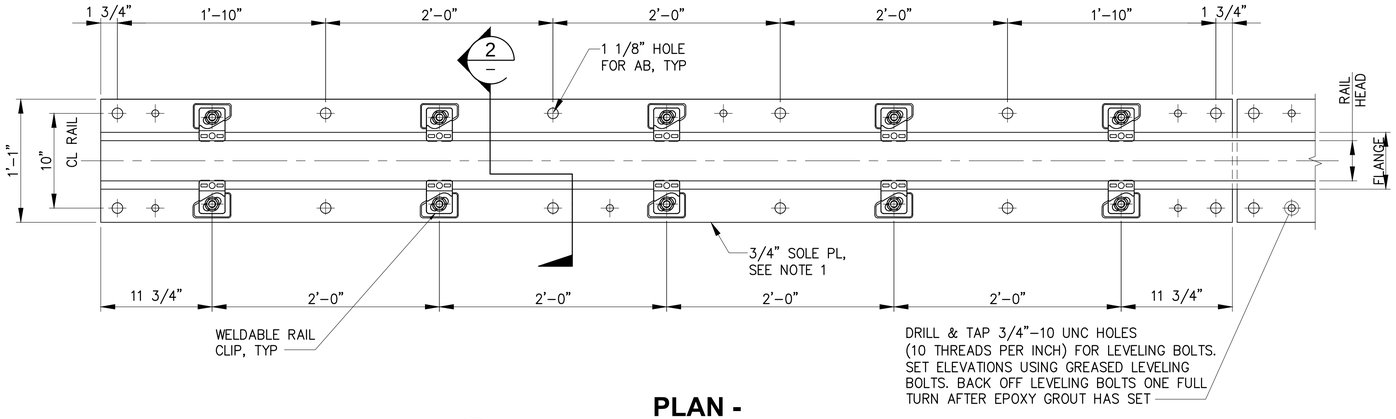
CONT/CONS: 0701361	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 0912511	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S39.1

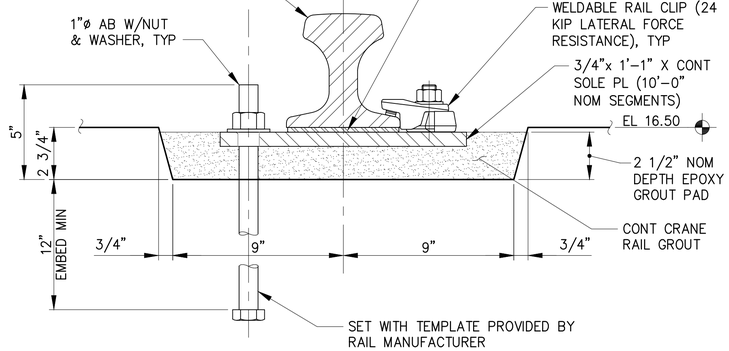


PLAN - SOFT MOUNT RAIL

1 / S28.1, S40.2 — 1 1/2"=1'–0"

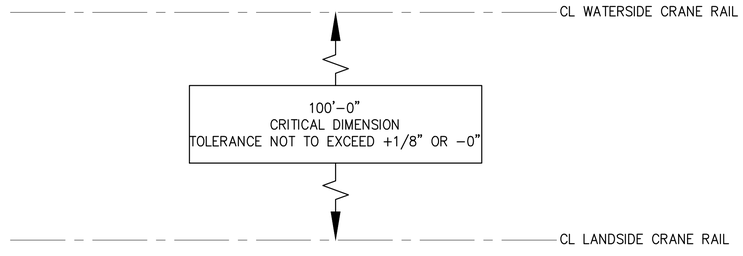
NOTES:

1. SOLE PLATES AND RAIL CLIP ASSEMBLIES SHALL BE HOT DIP GALVANIZED
2. SEE CIVIL DRAWINGS FOR PAVING DETAILS ADJACENT TO CRANE RAILS.
3. REPAIR DAMAGED GALVANIZING AT FIELD WELDS ACCORDING TO THE SPECIFICATION.



SECTION - SOFT MOUNT RAIL

2 / S15.1, S15.2, S40.2 — 3"=1'–0"



CRANE RAIL TOLERANCES

3 / – — NTS

RECORD DRAWINGS

kpff — 2407 North 31st Street, Suite 100, Tacoma, Washington 98407, (253) 396-0150 / Fax (253) 396-0162

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG.	DATE	PROJ. ENGR	SEK
		CHECKED BY	TAH

PRINTED BY: tlemons Jul 20, 2018

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
CRANE RAIL DETAILS - SHEET 1

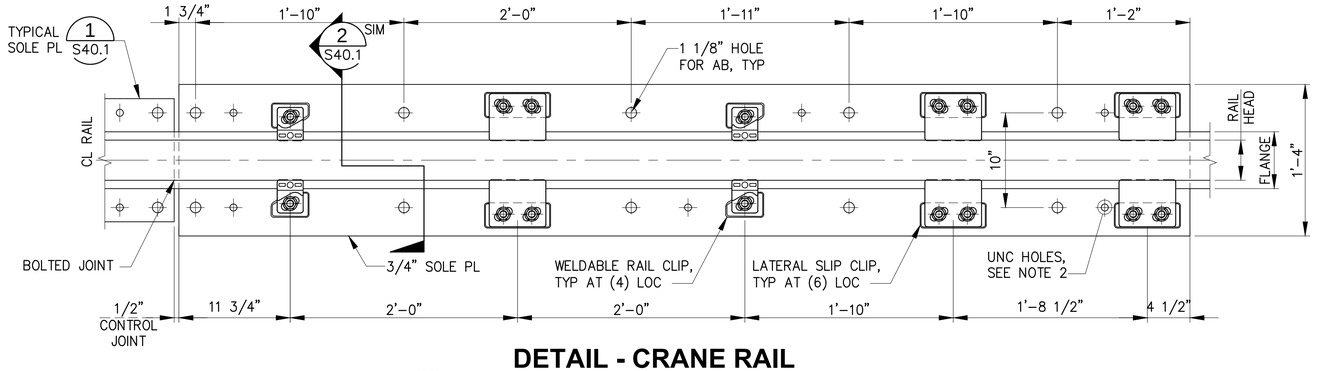
CONT/CONS:	070136	TOWNSHIP:	21N	RANGE:	3E	SECTION:	27
M. ID:	091251	DAT–HRZ:	WA83-SF	VERT:	MLLW 19.39' @ Tide 22 1933		
PHASE:	CONFORMED	PARCEL:					

6552
S40.1
SH 377 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

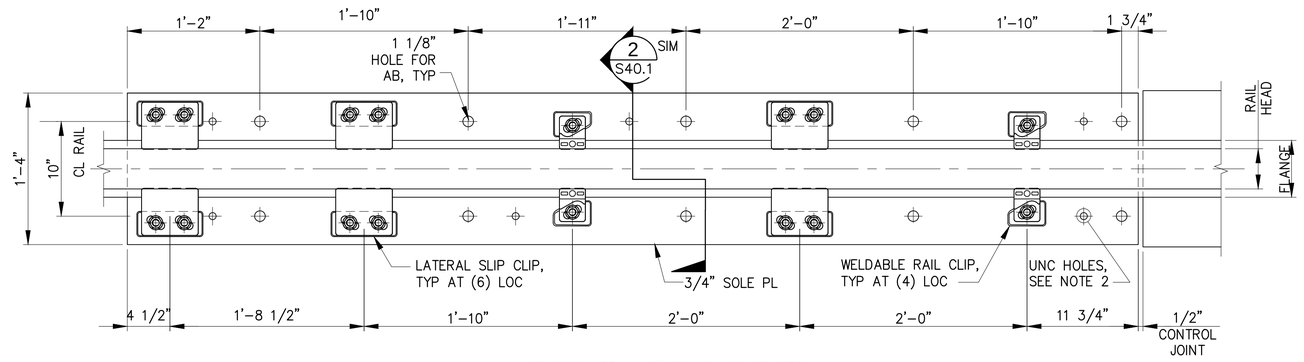
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S40.1



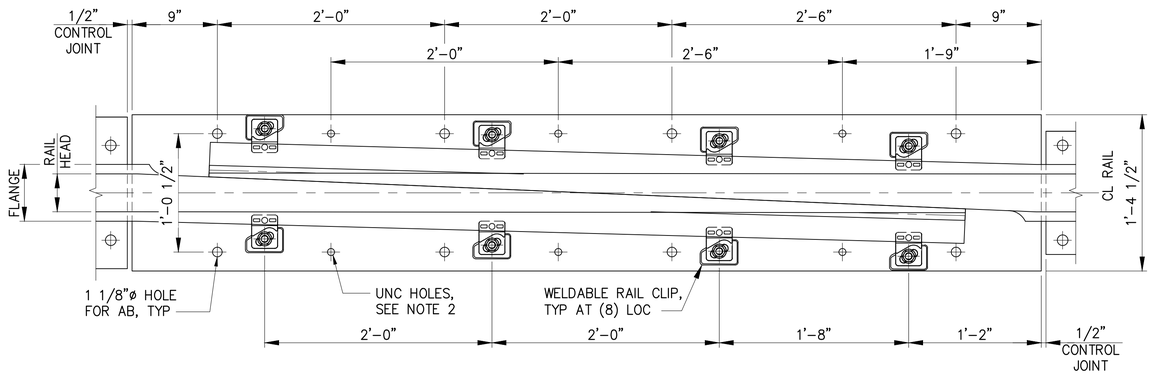
DETAIL - CRANE RAIL AT ISOLATION JOINT

1 / S28.1 — 1 1/2"=1'–0"



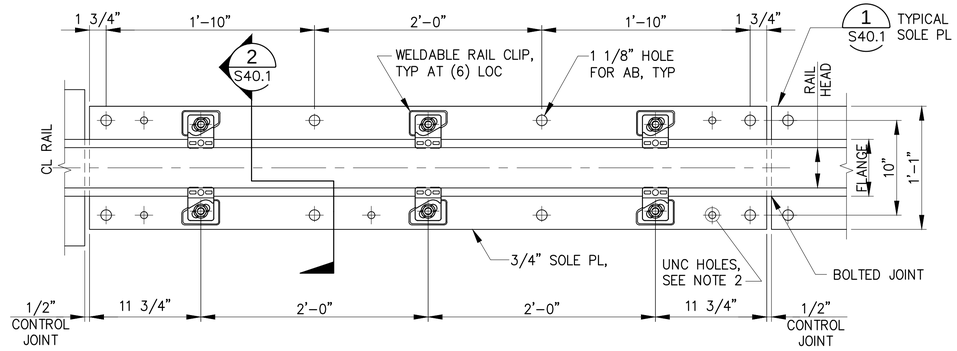
DETAIL - CRANE RAIL AT ISOLATION JOINT

2 / S28.1 — 1 1/2"=1'–0"



DETAIL - CRANE RAIL AT ISOLATION JOINT

3 / S28.1 — 1 1/2"=1'–0"



DETAIL - CRANE RAIL AT ISOLATION JOINT

4 / S28.1 — 1 1/2"=1'–0"

NOTES:

1. SEE S40.1 FOR NOTES.
2. SEE S40.1 FOR INFORMATION ON UNC HOLES.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S40.2

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

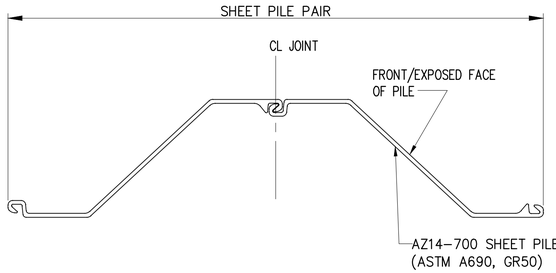
DIRECTOR ENG. DATE | CHECKED BY SEK DATE
PROJ. ENGR TAH DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PIER 4 PHASE 2
RECONFIGURATION
CRANE RAIL DETAILS - SHEET 2

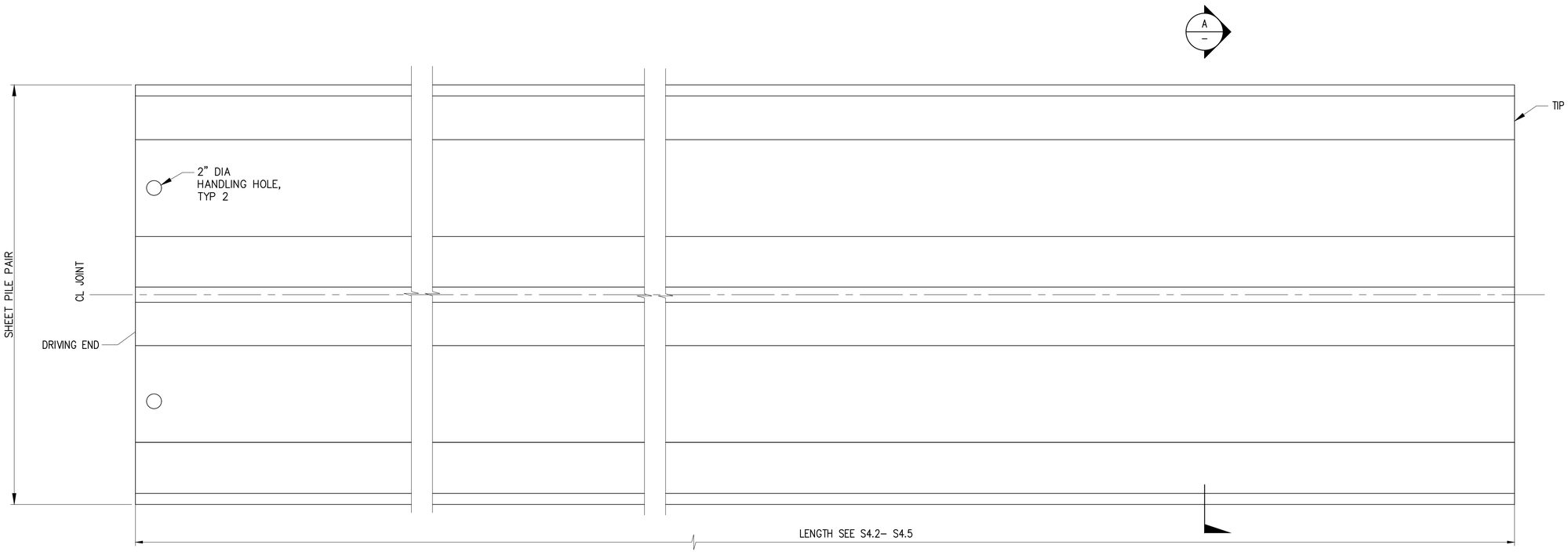
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S40.2
SH 378 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



A – **SECTION**
1 1/2" = 1'-0"



1 **TYPICAL SHEET PILE PAIR**
S4.1, S4.2, S4.3, S4.4, S4.5
1 1/2"=1'-0"

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S41.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	5/10/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
STEEL SHEET PILE DETAILS

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
DIRECTOR ENG.	DATE		

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

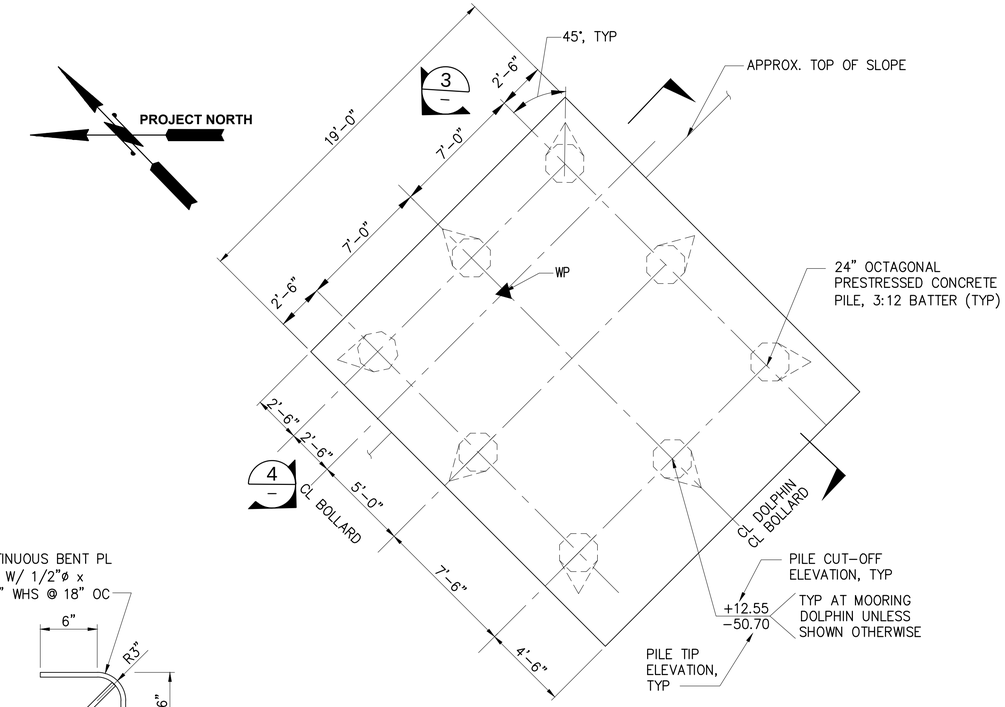
TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DRAWING SCALE: AS NOTED
DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		
PARCEL:			

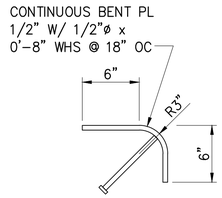
6552
S41.1
SH 379 OF 499

CONT/CONS: 0701136
M. ID: 091251
PHASE: CONFORMED

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

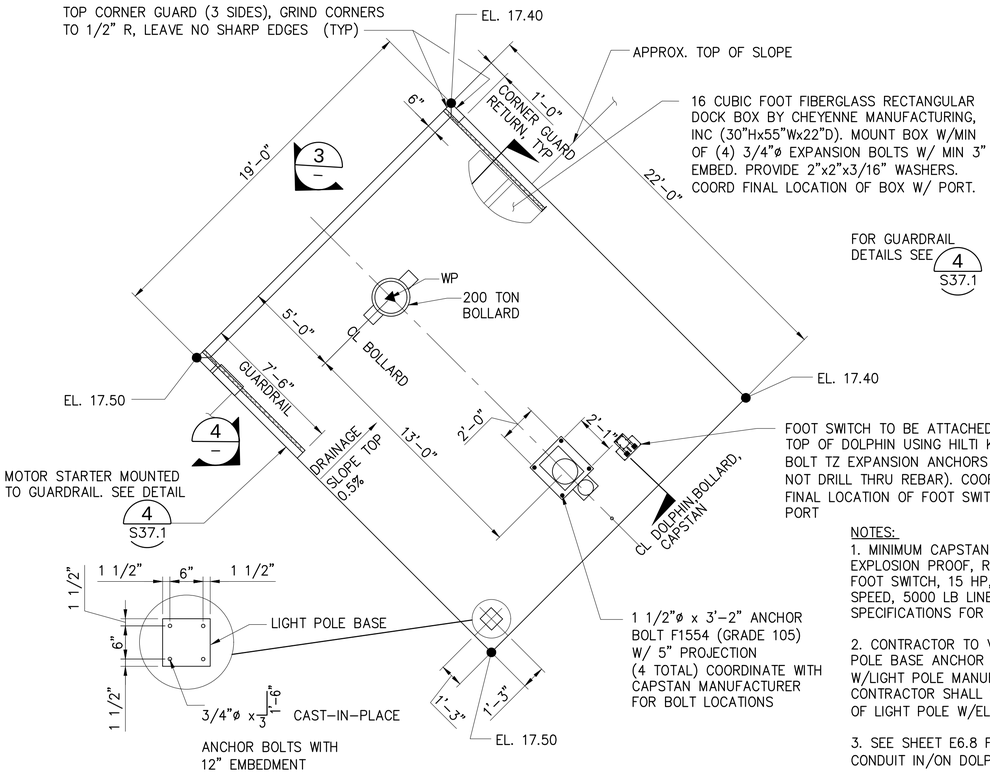
BINDING EDGE





TYPICAL CORNER GUARD

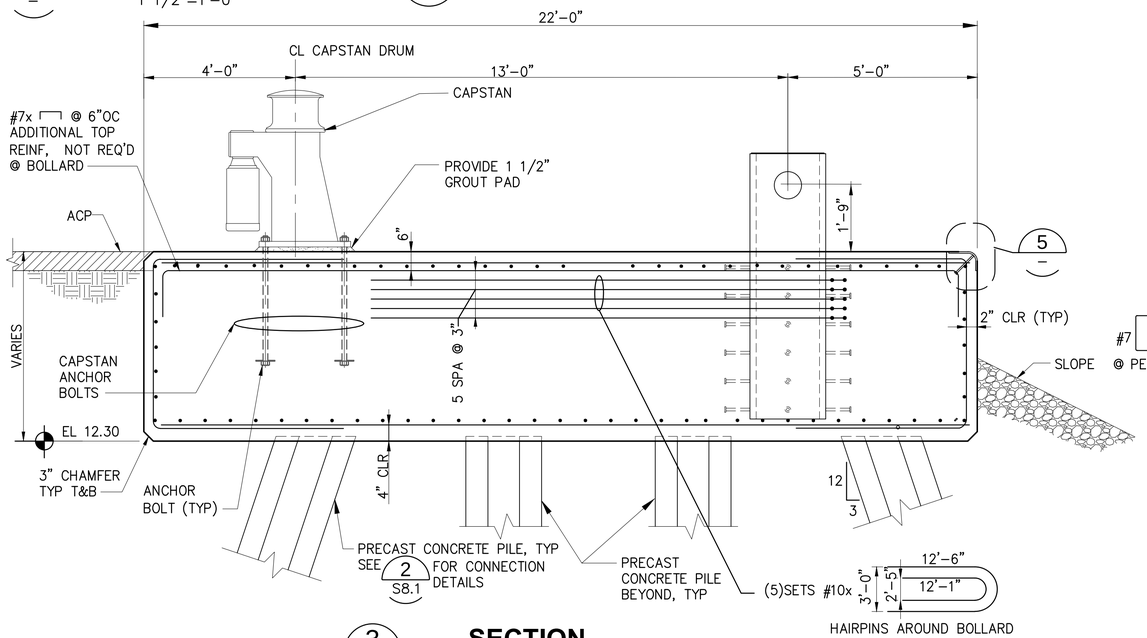
5 / – 1 1/2"=1'-0"



NOTES:
1. MINIMUM CAPSTAN REQ.'S: EXPLOSION PROOF, REVERSING MOTOR FOOT SWITCH, 15 HP, 75 FPM LINE SPEED, 5000 LB LINE PULL. SEE SPECIFICATIONS FOR DETAILS.
2. CONTRACTOR TO VERIFY LIGHT POLE BASE ANCHOR BOLT PATTERN W/LIGHT POLE MANUFACTURER. CONTRACTOR SHALL VERIFY LOCATION OF LIGHT POLE W/ELECTRICAL.
3. SEE SHEET E6.8 FOR ELECTRICAL CONDUIT IN/ON DOLPHIN.

1 PILING PLAN - MOORING DOLPHIN

S4.5 — 1/4"=1'-0"

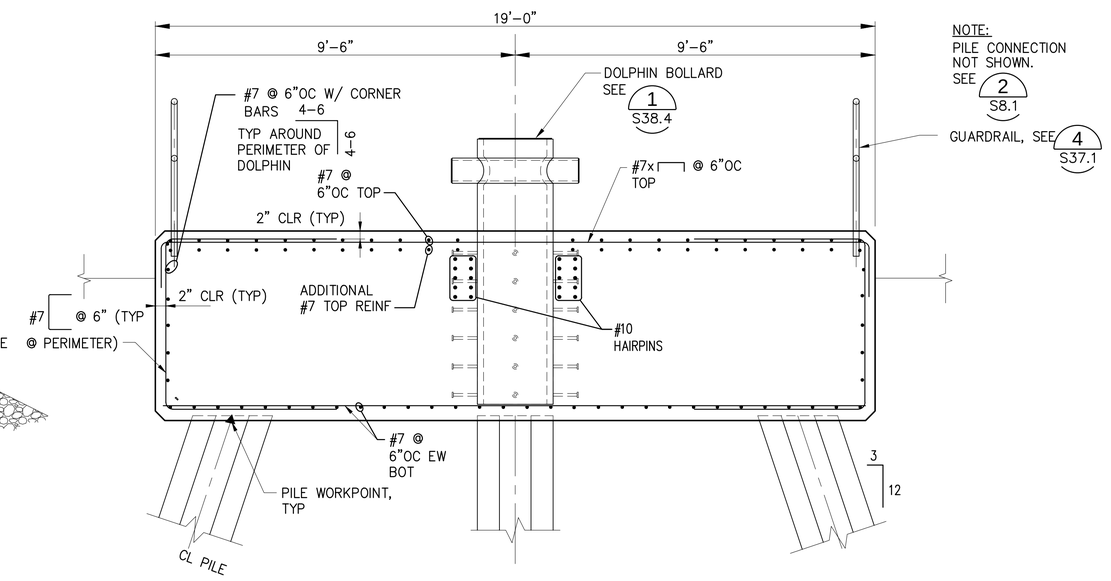


3 SECTION

– 1/2"=1'-0"

2 PLAN - MOORING DOLPHIN

S5.5 — 1/4"=1'-0"



4 SECTION

– 1/2"=1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK	TAH	
CHECKED BY	PROJ. ENGR	DATE

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
MOORING DOLPHIN DETAILS

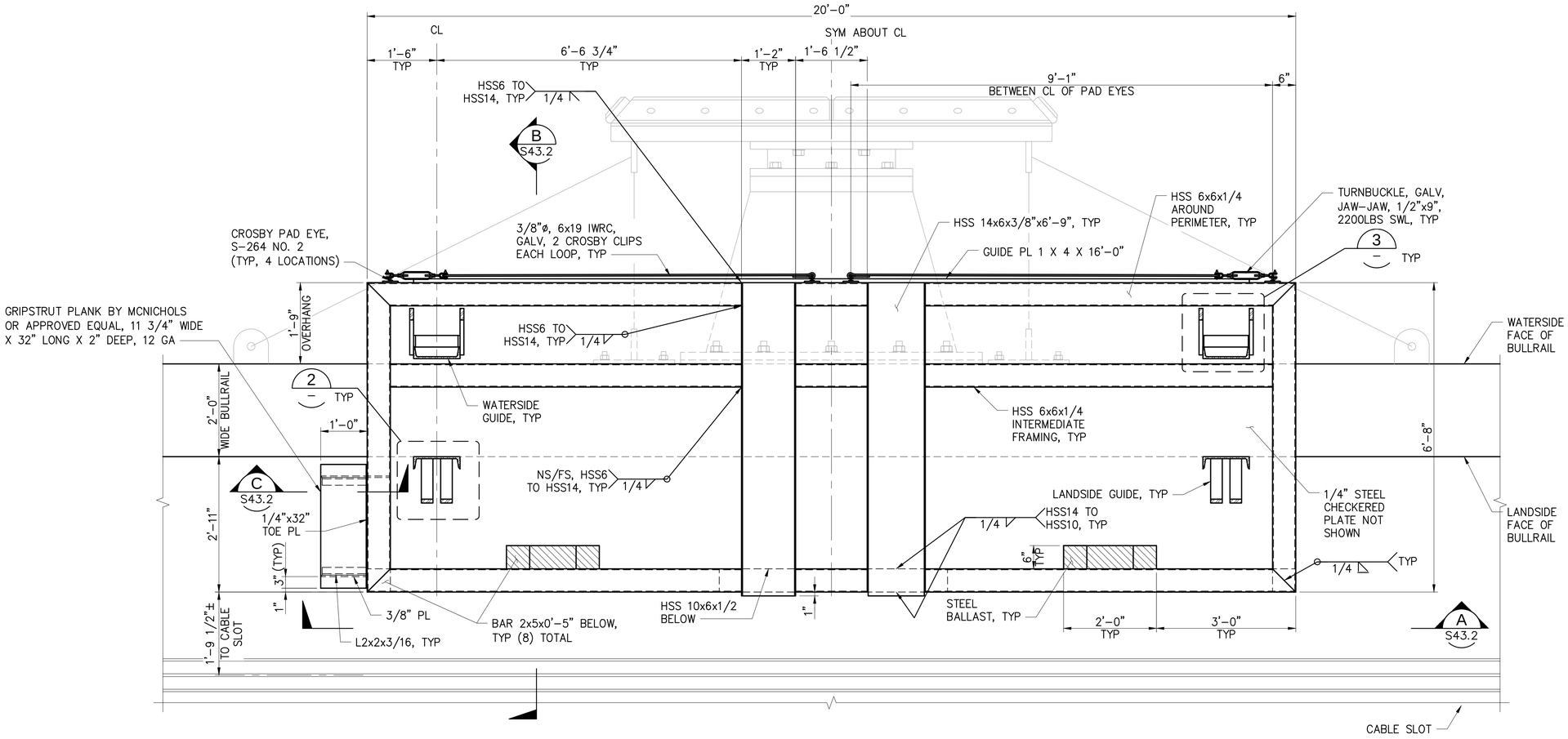
CONT/CONS: 0701.36	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6552
S42.1
SH 380 OF 499

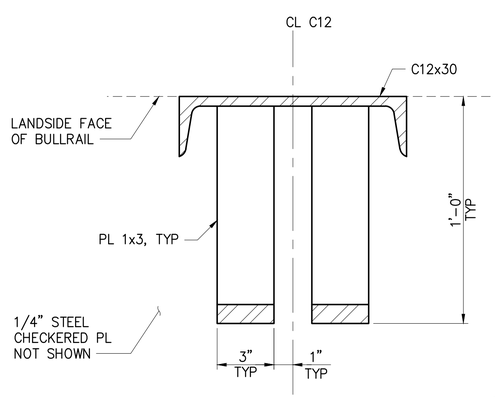
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S42.1



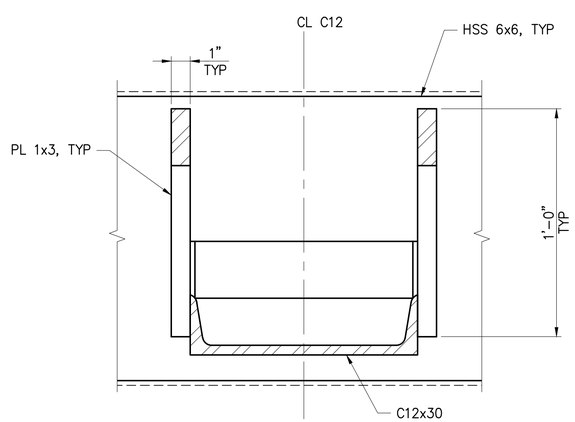
1 GANGWAY PLATFORM PLAN (TOP PLATE NOT SHOWN)
S3.1

SCALE: 3/4" = 1'-0"



2 – LANDSIDE GUIDE DETAIL

SCALE: 3" = 1'-0"



3 – WATERSIDE GUIDE DETAIL

SCALE: 3" = 1'-0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			TAH	1-11-17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
GANGWAY PLATFORM PLAN AND DETAILS

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
tlemons Jul 20, 2018			
PRINTED BY:			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			

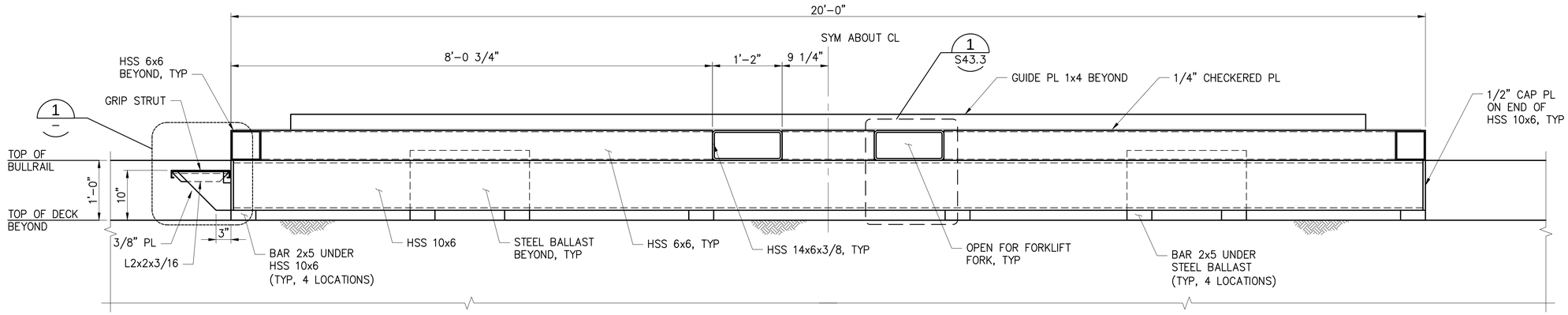
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED
SECTION: 27			

6552
S43.1
SH 381 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

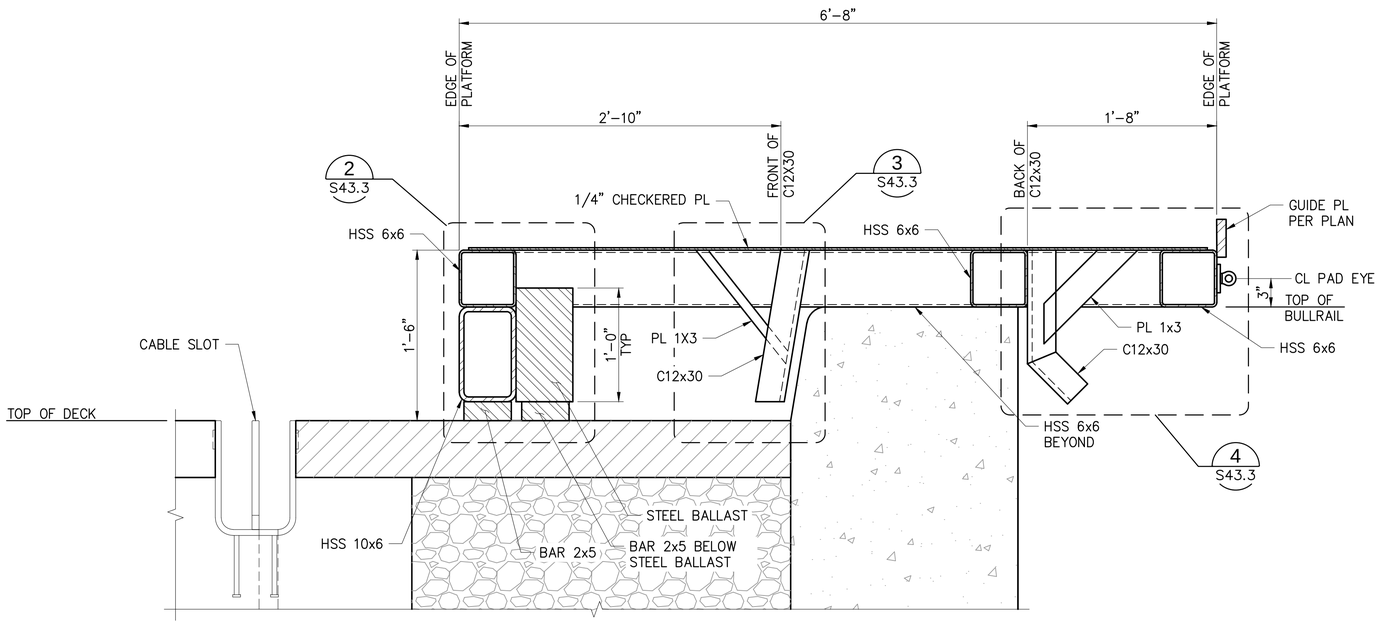
BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S43.1



A GANGWAY PLATFORM ELEVATION

S43.1 SCALE: 1" = 1'–0"

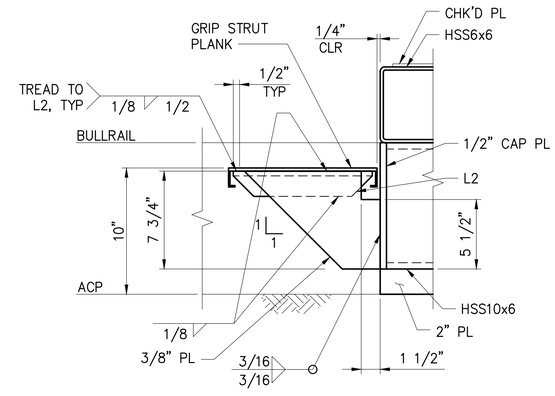


B TYPICAL GANGWAY PLATFORM SECTION

S43.1 SCALE: 1 1/2" = 1'–0"

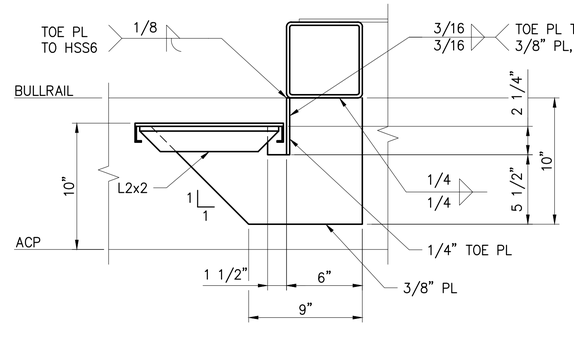
NOTE:

1. STEEL BALLAST VOLUME SHALL BE 1728 CUBIC INCHES EACH LOCATION (490 LBS OF STEEL EACH LOCATION, 980 LBS TOTAL FOR PLATFORM). THE BALLAST MAY BE IN COMBINATIONS OF 1/2" OR LARGER PLATE ARRANGED TO MEET GEOMETRICAL REQUIREMENTS SHOWN. BALLAST CONFIGURATION SHALL BE THE SAME IN EACH LOCATION. ALL BALLAST SHALL BE AFFIXED TO THE FRAMING WITH SEAL WELDS AND SHALL BE PAINTED.
2. GANGWAY PLATFORM SHALL BE PAINTED OSHA SAFETY YELLOW PER SECTION 09 96 00 OF THE SPECIFICATIONS. NON–SKID COATING SHALL BE USED FOR THE TOP SURFACE.



1 DETAIL

SCALE: 2" = 1'–0"



C SECTION

S43.1 SCALE: 2" = 1'–0"

PORT OF TACOMA FILE: N:\Struct\1114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S43.2

BINDING EDGE

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			TAH	1–11–17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

CHECKED BY	SEK
PROJ. ENGR	TAH
DIRECTOR ENG.	DATE
APPROVED:	

PIER 4 PHASE 2
RECONFIGURATION
GANGWAY PLATFORM SECTION AND DETAILS

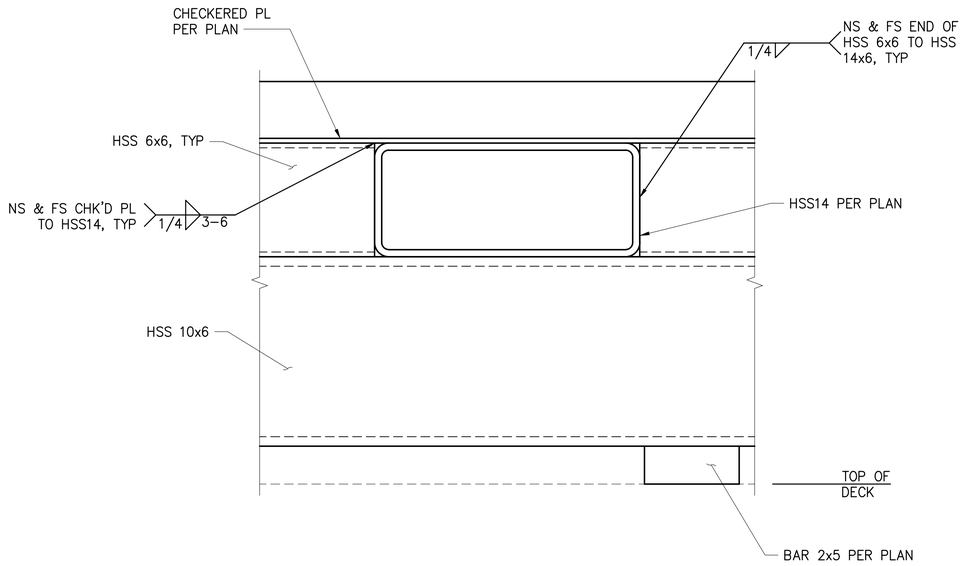
CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933
PHASE:	CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED

PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

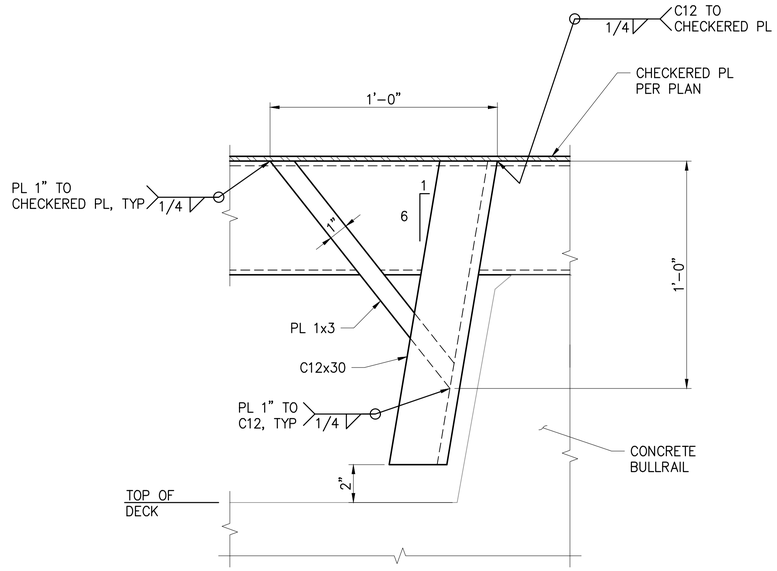
6552
S43.2
SH 382 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

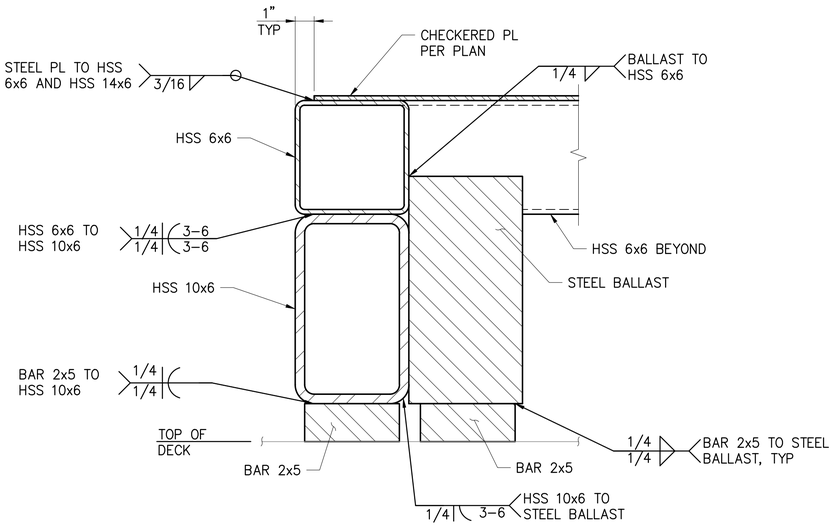
BINDING EDGE



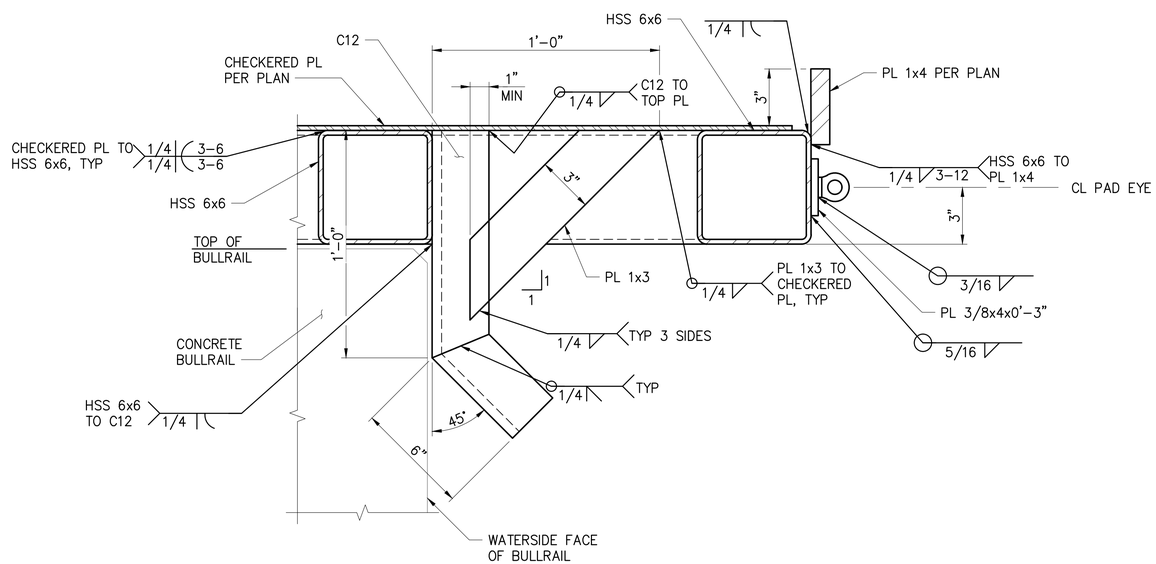
1 S43.2 **DETAIL**
SCALE: 3" = 1'–0"



3 S43.2 **TYPICAL LANDSIDE GUIDE DETAIL**
SCALE: 3" = 1'–0"



2 S43.2 **BALLAST DETAILS**
SCALE: 3" = 1'–0"



4 S43.2 **TYPICAL WATERSIDE GUIDE DETAIL**
SCALE: 3" = 1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841
kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 FAX (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			TAH	1–11–17

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

DIRECTOR ENG. DATE

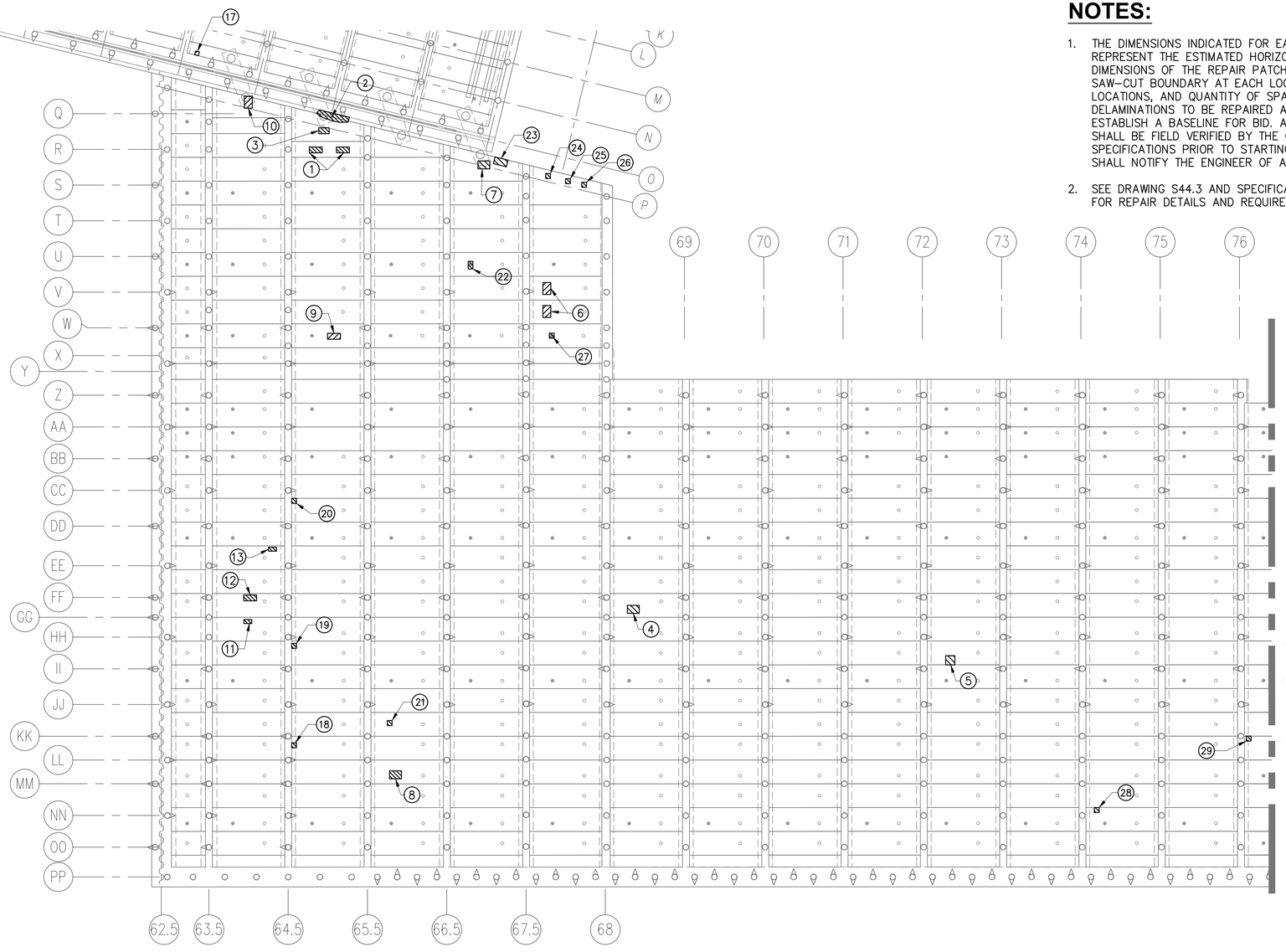
PIER 4 PHASE 2
RECONFIGURATION
GANGWAY PLATFORM DETAILS

SEK			
CHECKED BY DATE			
TAH			
PROJ. ENGR DATE			
PRINTED BY: tlemons Jul 20, 2018			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

6552
S43.3
SH 383 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\CurrentPhase 2_091251\091251-S43.3



NOTES:

1. THE DIMENSIONS INDICATED FOR EACH REPAIR AREA REPRESENT THE ESTIMATED HORIZONTAL PLAN DIMENSIONS OF THE REPAIR PATCH BOUNDED BY THE SAW-CUT BOUNDARY AT EACH LOCATION. DIMENSIONS, LOCATIONS, AND QUANTITY OF SPALLS AND DELAMINATIONS TO BE REPAIRED ARE PROVIDED TO ESTABLISH A BASELINE FOR BID. ALL REPAIR AREAS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PER THE SPECIFICATIONS PRIOR TO STARTING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. SEE DRAWING S44.3 AND SPECIFICATIONS FOR REPAIR DETAILS AND REQUIREMENTS.

TABLE 1

REPAIR ID	ESTIMATED REPAIR LENGTH	ESTIMATED REPAIR WIDTH	ESTIMATED REPAIR AREA
①	2'	2'	4.0 SF
②	3'	8'	24.0 SF
③	1'	1'	1.0 SF
④	3'	4'	12.0 SF
⑤	2.3'	2.3'	5.3 SF
⑥	1.5'	3'	4.5 SF
⑦	1.5'	1.5'	2.3 SF
⑧	3'	2'	6.0 SF
⑨	3.5'	1.5'	5.3 SF
⑩	1.5'	2'	3.0 SF
⑪	1'	2'	2.0 SF
⑫	3.5'	1.5'	5.3 SF
⑬	1'	2'	2.0 SF
⑭	3'	10'	30.0 SF
⑮	3'	3'	9.0 SF
⑯	1'	2'	2.0 SF
⑰	1'	1'	1.0 SF
⑱	0.5'	0.5'	0.3 SF
⑲	0.5'	0.5'	0.3 SF
⑳	0.5'	0.5'	0.3 SF
㉑	0.5'	0.5'	0.3 SF
㉒	0.5'	1'	0.5 SF
㉓	1.5'	3'	4.5 SF
㉔	0.5'	0.5'	0.3 SF
㉕	0.5'	0.5'	0.3 SF
㉖	0.5'	0.5'	0.3 SF
㉗	0.5'	0.5'	0.3 SF
㉘	0.5'	0.5'	0.3 SF
㉙	0.5'	0.5'	0.3 SF
㉚	0.5'	0.5'	0.3 SF
㉛	0.5'	0.5'	0.3 SF
㉜	0.5'	0.5'	0.3 SF
㉝	0.5'	0.5'	0.3 SF
㉞	0.5'	1'	0.5 SF
㉟	0.5'	0.5'	0.3 SF
TOTAL ESTIMATED REPAIR AREA (SF) =			129 SF

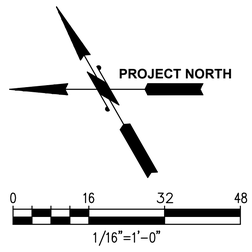
FOR BID PURPOSES, THE CONTRACTOR SHALL ASSUME AN AVERAGE DEPTH OF REPAIR AREA OF 1 1/2"

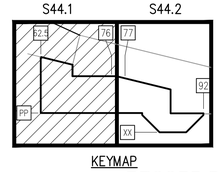
LEGEND:

- (10) BENT NUMBERS FROM RECORD DRAWINGS
- ● DECK DRAIN
- ○ SUBSURFACE DRAIN
- ▨ INDICATES EXISTING DELAMINATION OR SPALL TO BE REPAIRED
- (#) REPAIR ID SEE TABLE 1 ABOVE

STRUCTURAL REPAIR PLAN

1/16"=1'-0"





KEYMAP

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	9/15/2016

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

tlemons Jul 20, 2018
PRINTED BY: DATE

ONE SITCUM PLAZA
PORT ADDRESS

TACOMA, WA 98401-1837

AS NOTED
DRAWING SCALE:

PIER 4 PHASE 2 RECONFIGURATION
STRUCTURAL REPAIR PLANS - SHEET 1

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ:	VERT:	
PHASE: CONFORMED	PARCEL:		

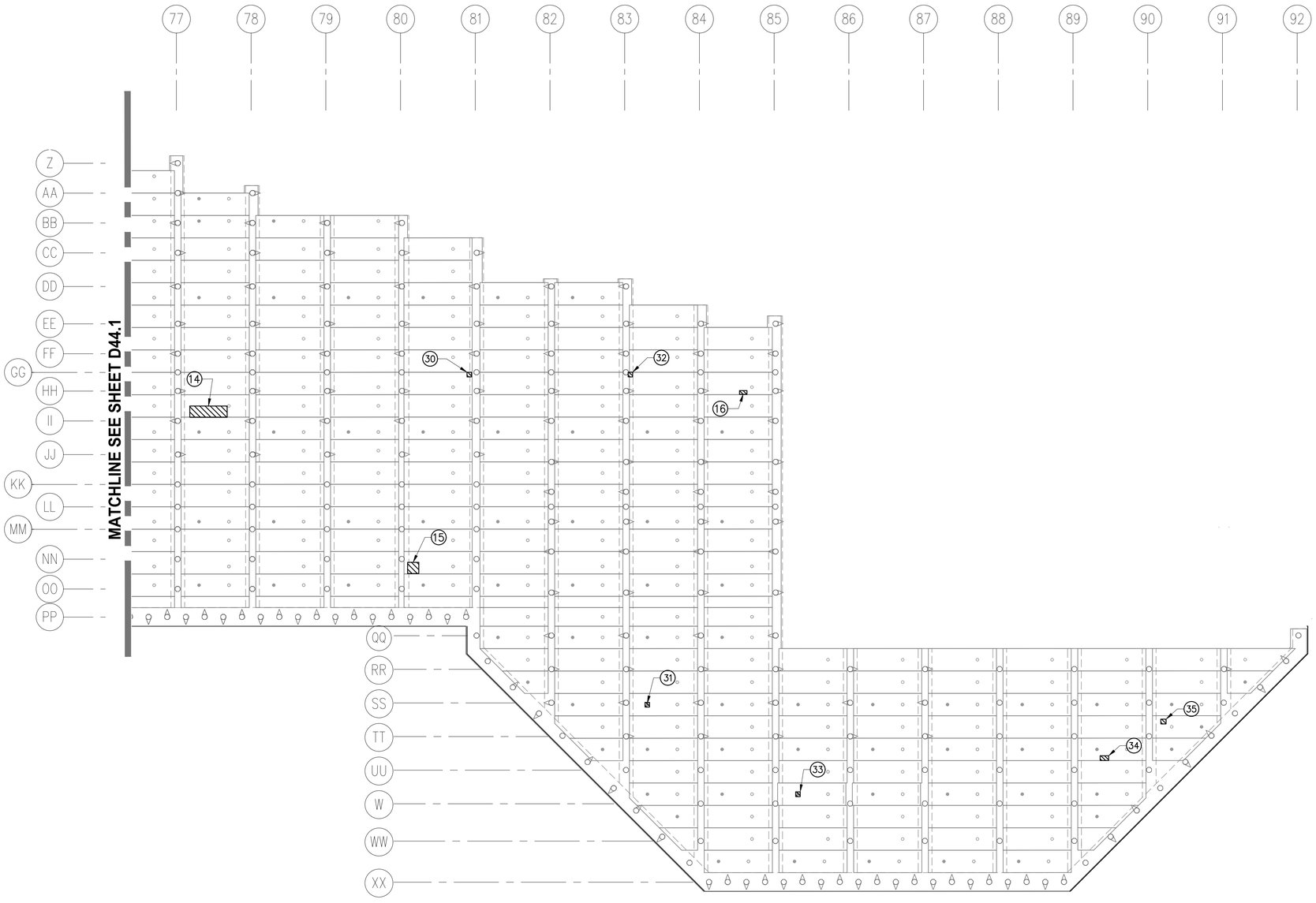
6552
S44.1
SH 384 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\1114-\1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S44.1 R1

BINDING EDGE



STRUCTURAL REPAIR PLAN

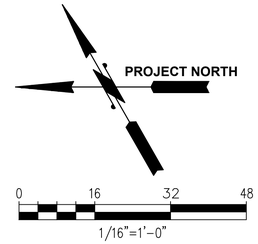
1/16"=1'-0"

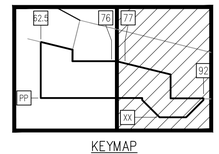
LEGEND:

- (10) BENT NUMBERS FROM RECORD DRAWINGS
- ● DECK DRAIN
- ○ SUBSURFACE DRAIN
- INDICATES EXISTING DELAMINATION OR SPALL TO BE REPAIRED
- (#) REPAIR ID SEE TABLE 1 ON S44.1

NOTES:

1. THE DIMENSIONS INDICATED FOR EACH REPAIR AREA REPRESENT THE ESTIMATED HORIZONTAL PLAN DIMENSIONS OF THE REPAIR PATCH BOUNDED BY THE SAW-CUT BOUNDARY AT EACH LOCATION. DIMENSIONS, LOCATIONS, AND QUANTITY OF SPALLS AND DELAMINATIONS TO BE REPAIRED ARE PROVIDED TO ESTABLISH A BASELINE FOR BID. ALL REPAIR AREAS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PER THE SPECIFICATIONS PRIOR TO STARTING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. SEE DRAWING S44.3 AND SPECIFICATIONS FOR REPAIR DETAILS AND REQUIREMENTS.





KEYMAP

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\1114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S44.2 R1

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	9/15/2016

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

APPROVED:

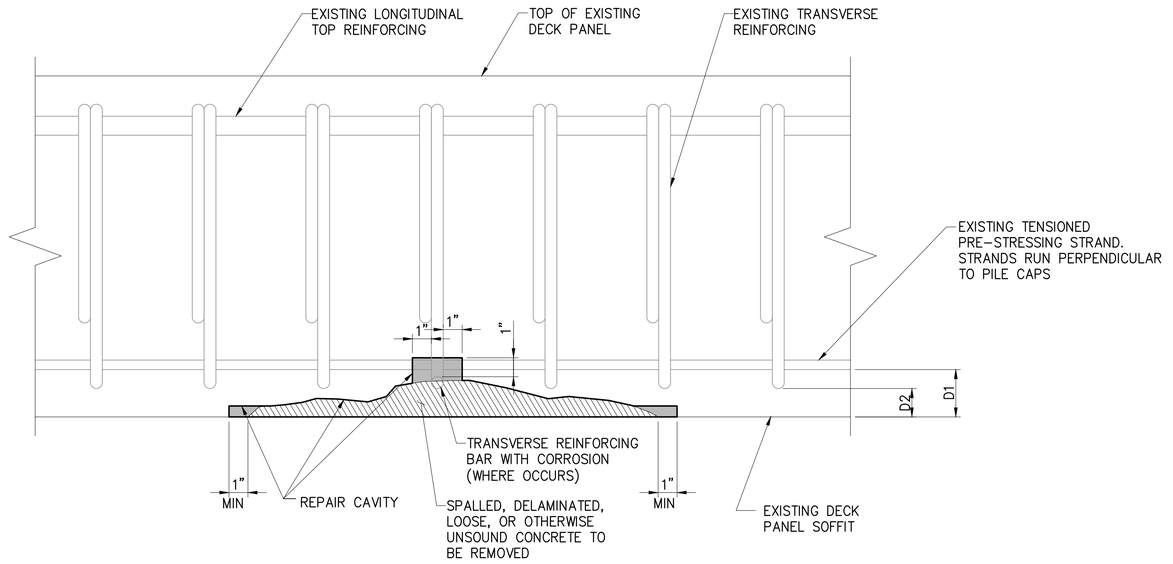
DIRECTOR ENG.: SEK DATE
PRINTED BY: tiernons Jul 20, 2018 PROJ. ENGR: TAH DATE
PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

PIER 4 PHASE 2
RECONFIGURATION
STRUCTURAL REPAIR PLANS - SHEET 2

CONT/CONS:	070136	TOWNSHIP: 21N	RANGE: 3E
M. ID:	091251	DAT-HRZ:	VERT:
PHASE:	CONFORMED	PARCEL:	SECTION: 27

6552
S44.2
SH 385 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



RECOMMENDED REPAIR SEQUENCE (SEE SPECIFICATIONS)

1. LOCATE EACH DESIGNATED REPAIR ON THE STRUCTURE AND DETERMINE THE ACTUAL REPAIR PERIMETER BY HAMMER SOUNDING TO DETERMINE IF UNSEEN SUBSURFACE DELAMINATIONS EXIST IN ADDITION TO VISUAL SPALLS. FOLLOWING THE HAMMER SOUNDING, THE CONTRACTOR SHALL MARK THE OUTLINE OF THE ACTUAL REPAIR AREA, NOTIFY THE ENGINEER, AND SHALL PROVIDE ACCESS FOR THE ENGINEER'S INSPECTION PRIOR TO PROCEEDING WITH REPAIRS.
2. USING NDT METHODS, DETERMINE THE ACTUAL CONCRETE COVER OVER THE PRE-STRESSING STRAND (DIMENSION D1) AND TRANSVERSE REINFORCING (DIMENSION D2) IN THE ESTIMATED REPAIR AREA. DO NOT EXPOSE MORE THAN 12" OF PRE-STRESSING STRAND AT ANY TIME DURING REPAIR WITHOUT DIRECTION FROM ENGINEER.
3. CHIP AND REMOVE LOOSE CONCRETE TO SOUND SUBSTRATE WITHIN REPAIR AREA.
4. REMOVE ADDITIONAL CONCRETE TO PROVIDE 1" MIN CLEAR AROUND REINFORCING BARS (NOT STRANDS) AT LOCATIONS WHERE HALF OR MORE OF A BAR'S DIAMETER IS EXPOSED.
5. THE EDGES OF THE REPAIR BOUNDARY SHALL EXTEND AT LEAST 1" BEYOND THE PLAN EXTENTS OF SPALLS, DELAMINATIONS, OR OTHERWISE UNSOUND CONCRETE. THE EDGES OF THE ACTUAL REPAIR AREA SHALL BE FORMED BY STRAIGHT BOUNDARY LINES TO EITHER A SQUARE OR RECTANGULAR PLAN SHAPE. BOUNDARY LINES SHALL BE PARALLEL TO DECK PANEL EDGES AND PILE CAPS.
6. VERTICALLY SAWCUT THE REPAIR AREA BOUNDARY TO A DEPTH OF 1/2" MIN TO 3/4" MAX, BUT NOT MORE THAN D2. USE CARE TO PREVENT DAMAGE TO REINFORCING STEEL AND PRE-STRESSING STRAND. DAMAGE TO REINFORCING OR STRAND SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE PORT.
7. PREPARE REPAIR CAVITY BY REMOVING ALL CONCRETE FROM WITHIN THE REPAIR AREA BOUNDARY TO THE DEPTH OF THE SAWCUTS. ROUGHEN EXPOSED CONCRETE SURFACE.
8. WHERE TRANSVERSE REINFORCING IS CORRODED AND HAS LOST MORE THAN 25% OF ORIGINAL CROSS SECTION, SPLICE IN NEW BAR OF SAME SIZE AS EXISTING. PROVIDE LAP SPLICE TO REMAINING REINFORCING ON EACH SIDE.
9. PROVIDE NOTIFICATION TO PORT AND PROVIDE ACCESS TO ENGINEER FOR INSPECTION OF REPAIR AREAS PRIOR TO PLACING REPAIR MATERIALS.
10. PREPARE EXPOSED REINFORCEMENT FOR PLACING REPAIR MATERIAL.
11. PLACE REPAIR MATERIAL AND CURE PER MANUFACTURER'S INSTRUCTIONS AND THE SPECIFICATIONS. COMPLETED PATCH SHALL PROVIDE FOR MINIMUM 1 1/2" OF COVER OVER TRANSVERSE REINFORCING STEEL.

1 – DECK PANEL SOFFIT REPAIR
NTS

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S44.3

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEC
CHECKED BY DATE
TAH
DIRECTOR ENG. DATE PROJ. ENGR DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

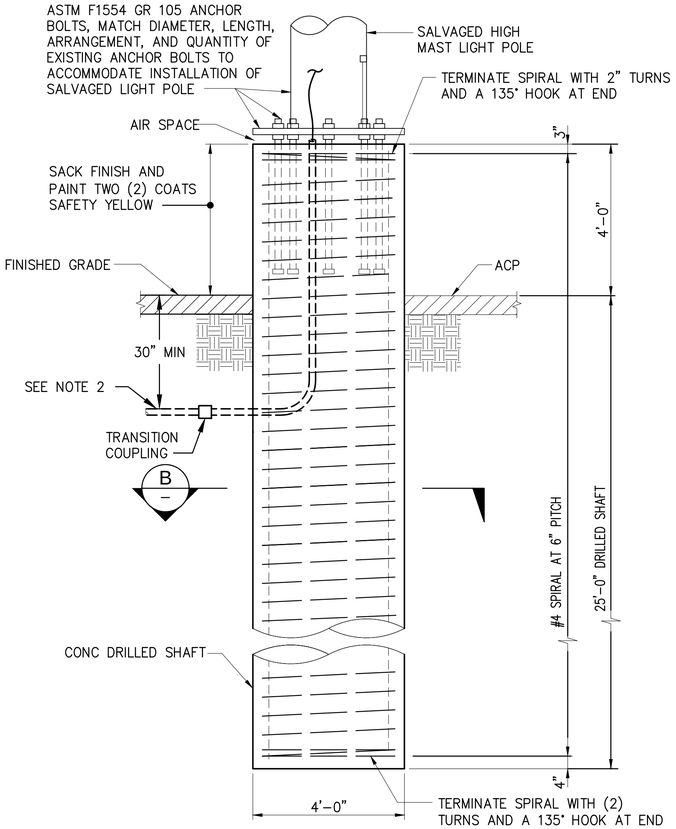
APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
STRUCTURAL REPAIR DETAILS

6552
S44.3
SH 386 OF 499

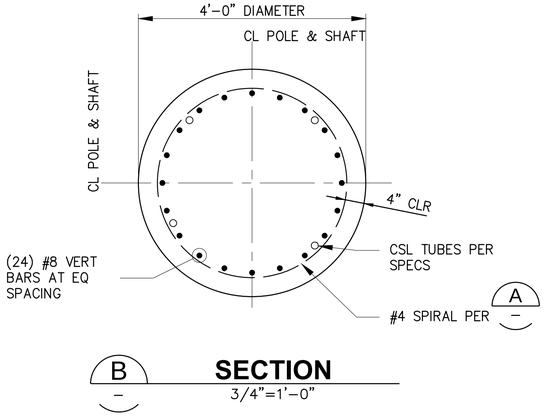
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ:	VERT:	DRAWING SCALE: AS NOTED
PHASE: CONFORMED	PARCEL:		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



ELEVATION - SITE LIGHTING POLE FOUNDATION

A
1/2"=1'-0"



SECTION

B
3/4"=1'-0"

NOTES:

1. SEE CIVIL DRAWINGS FOR POLE LOCATOINS.
2. SEE ELECTRICAL DRAWINGS FOR CONDUITS AND GROUND WIRES TO BE EMBEDDED IN SHAFT.
3. THE SHAFTS FOR POLES WYL03, WYL04, AND WYL05 MAY ENCOUNTER DIFFICULT DRILLING IN VICINITY OF THE FORMER SLIP 2 BERM. THE CONTRACTOR SHALL REVIEW AVAILABLE RECORD DRAWINGS AND PLAN DRILLING OPERATIONS ACCORDINGLY.
4. FOR BIDDING PURPOSES, CONTRACTOR SHALL ASSUME EXISTING HIGH MAST LIGHT POLES ARE ANCHORED WITH (8) 2.25" DIA x 7'-0" LONG J-BOLTS WITH A 6" TAIL LENGTH. CONTRACTOR SHALL FIELD VERIFY ACTUAL ANCHOR BOLT QUANTITY, DIAMETER, AND LENGTH PRIOR TO CONSTRUCTION.

RECORD DRAWINGS

BINDING EDGE

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S45.1

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98403
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	5/23/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
DIRECTOR ENG. DATE

APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
HIGH-MAST LIGHT POLE FOUNDATION DETAILS

6552
S45.1
SH 387 OF 499

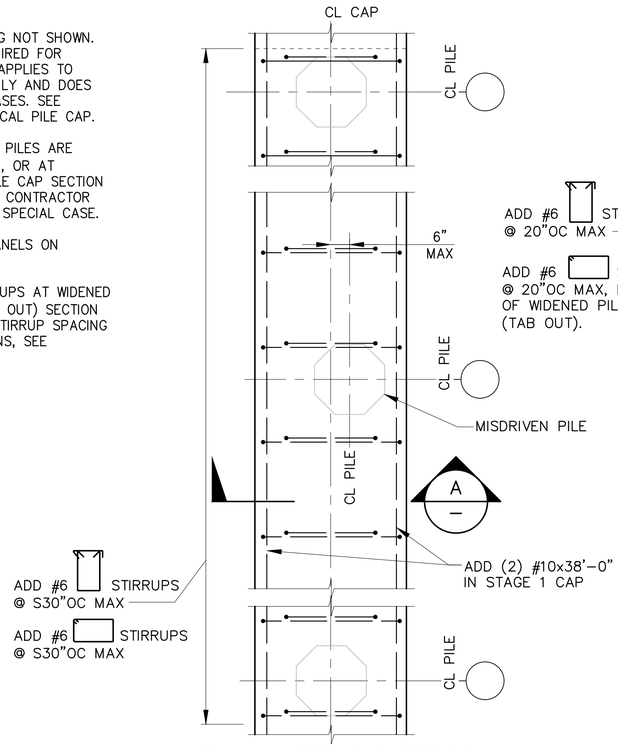
CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	

PROJ. ENGR DATE
PRINTED BY: tlemons Jul 20, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

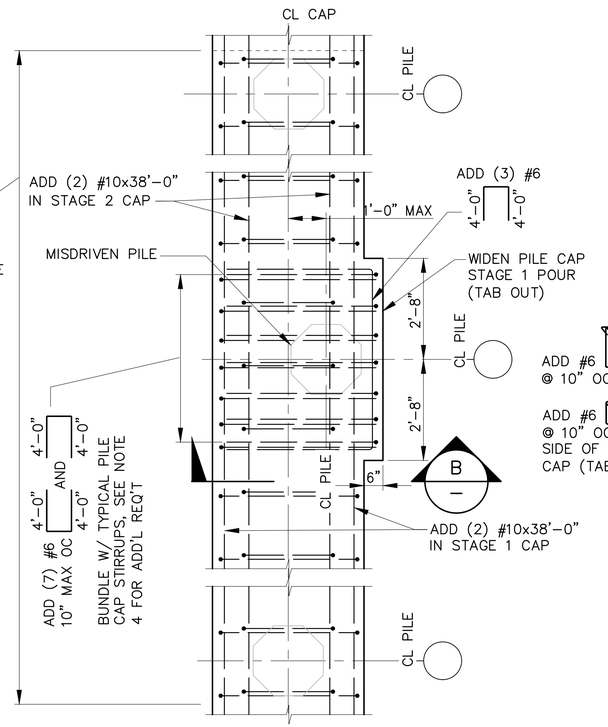
BINDING EDGE

NOTES:
1. TYPICAL PILE CAP REINFORCING NOT SHOWN. ADDITIONAL REINFORCING REQUIRED FOR MISDRIVEN PILE SHOWN HERE APPLIES TO TYPICAL PILE CAP SECTION ONLY AND DOES NOT COVER ALL POTENTIAL CASES. SEE SECTION A ON S10.1 FOR TYPICAL PILE CAP.
2. IF MORE THAN TWO ADJACENT PILES ARE MISDRIVEN FOR MORE THAN 4", OR AT LOCATIONS WHERE TYPICAL PILE CAP SECTION A ON S10.1 DOES NOT APPLY, CONTRACTOR SHALL CONSULT ENGINEER AS SPECIAL CASE.
3. CONTRACTOR SHALL PLACE PANELS ON MISDRIVEN PILE SIDE FIRST.
4. SPACING OF ADDITIONAL STIRRUPS AT WIDENED PILE CAP STAGE 1 POUR (TAB OUT) SECTION SHALL NOT EXCEED TYPICAL STIRRUP SPACING SHOWN IN PILE CAP ELEVATIONS, SEE S9.1–S9.16.



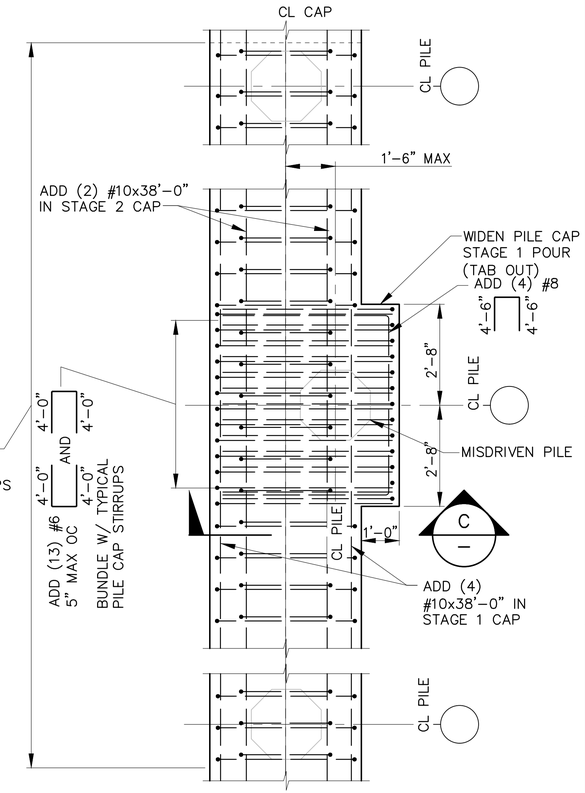
PLAN - TRANSVERSE MISDRIVEN PILE - 4" TO 6"

1 — 1/2"=1'–0"



PLAN - TRANSVERSE MISDRIVEN PILE - 6" TO 12"

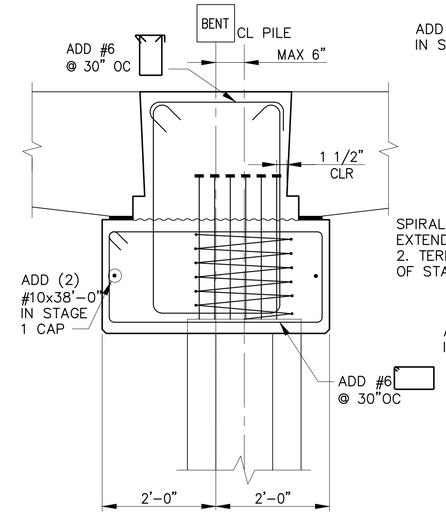
2 — 1/2"=1'–0"



PLAN - TRANSVERSE MISDRIVEN PILE - 1'-0" TO 1'-6"

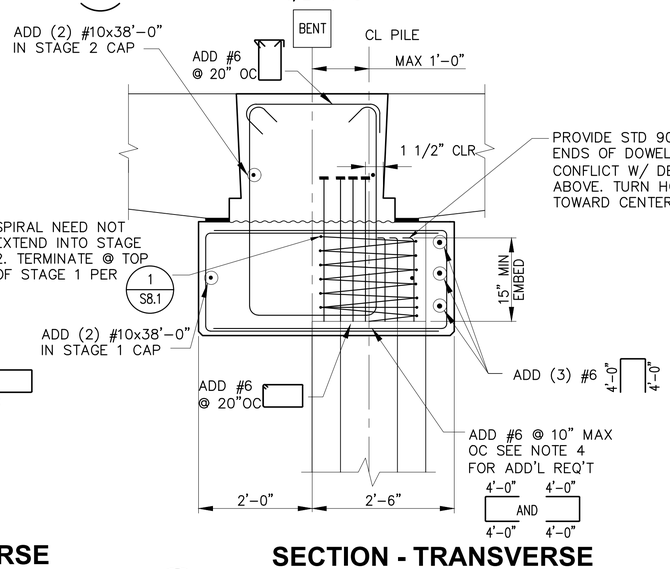
3 — 1/2"=1'–0"

TABLE 1 PILE CAP TAB OUTS	
REPAIR DETAIL	MISDRIVEN PILE LOCATION
1	D–36 E–15, 16, 23, 29, 31 F–16, 34, 38, 39 G–37, 47 H–20 J–42
2	C–15 D–45, 46, 47 E–25, 28, 34 F–17, 20, 23, 46 G–12, 20, 26, 39, 63 H–21, 22, 40 K–46
3	D–28



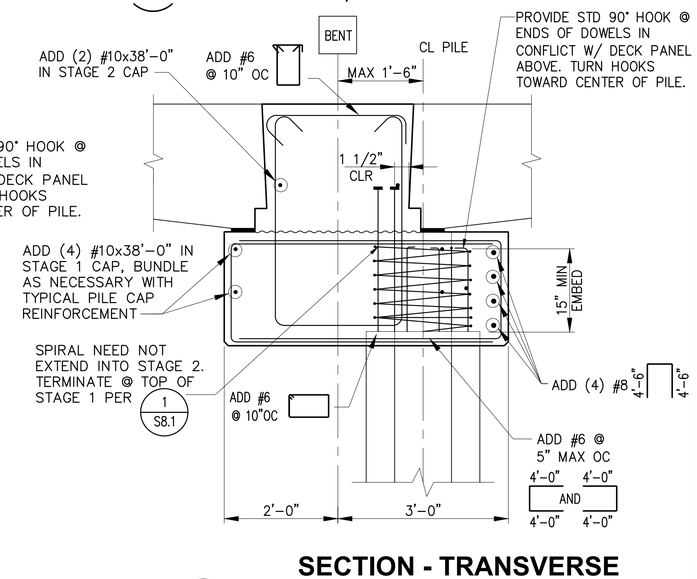
SECTION - TRANSVERSE MISDRIVEN PILE - 4" TO 6"

A — 3/4"=1'–0"



SECTION - TRANSVERSE MISDRIVEN PILE - 6" TO 1'-0"

B — 3/4"=1'–0"



SECTION - TRANSVERSE MISDRIVEN PILE - 1'-0" TO 1'-6"

C — 3/4"=1'–0"

RECORD DRAWINGS

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	9/14/16

RECORD DRAWINGS:
THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK
CHECKED BY DATE

TAH
PROJ. ENGR DATE
tiemons Jul 20, 2018

APPROVED:
DIRECTOR ENG. DATE

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP TAB OUT DETAILS

TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tiemons
DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA
PARCEL:	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837

6552
S46.1
SH 388 OF 499

CONT/CONS: 070136			
M. ID: 091251			
PHASE: CONFORMED			

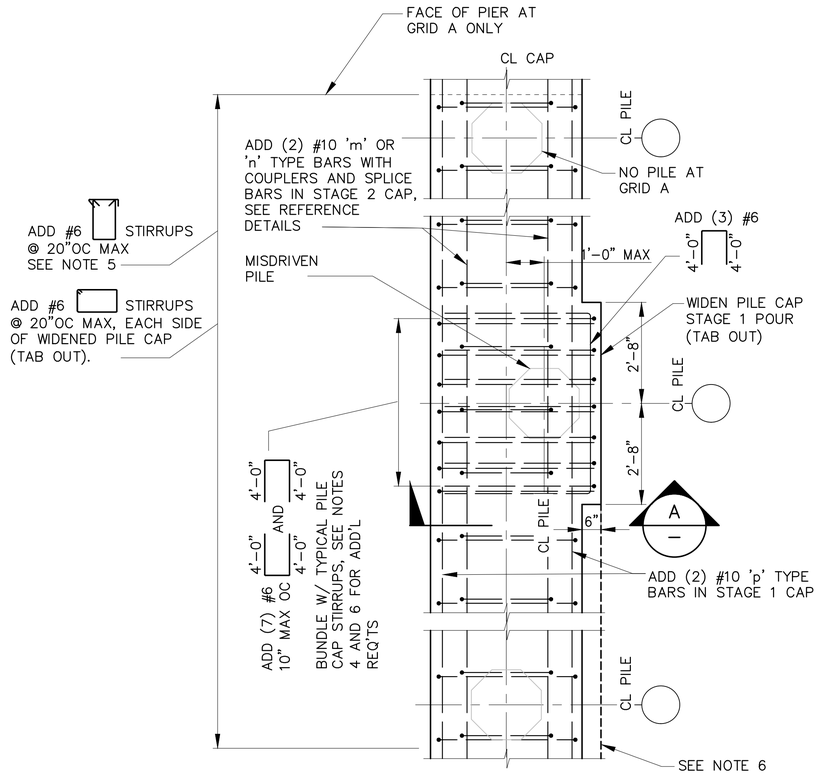
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-\114096 (POT Pier 4)\Drawings\Current\Phase 2_091251091251-S46.1

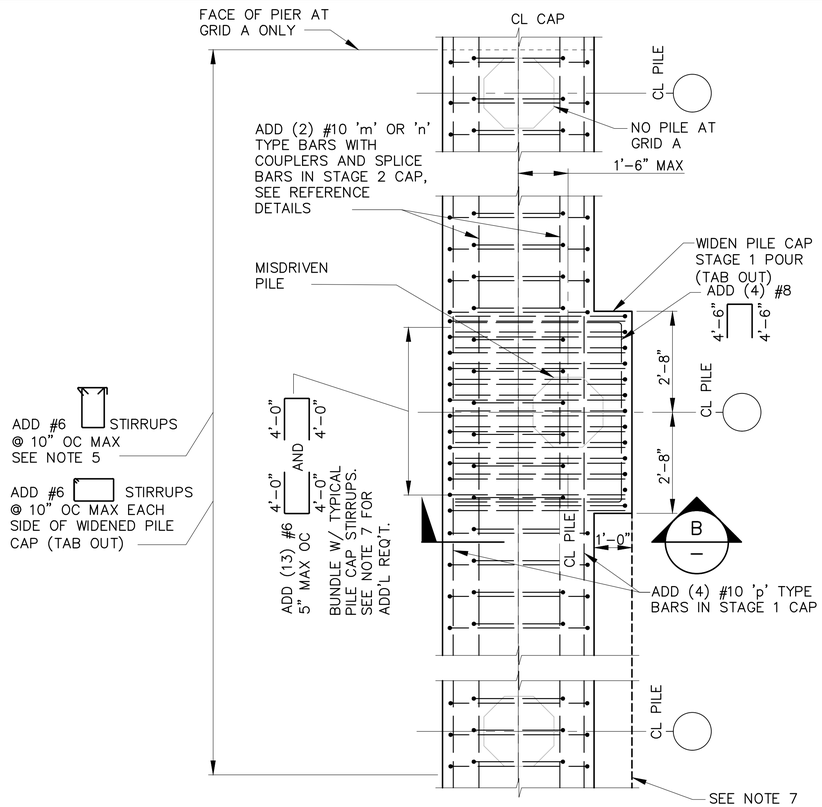
BINDING EDGE

NOTES:
1. TYPICAL PILE CAP REINFORCING NOT SHOWN. ADDITIONAL REINFORCING REQUIRED FOR MISDRIVEN PILE SHOWN HERE APPLIES TO TYPICAL PILE CAP SECTION ONLY AND DOES NOT COVER ALL POTENTIAL CASES. SEE SECTION A ON S10.1 FOR TYPICAL PILE CAP.
2. IF MORE THAN TWO ADJACENT PILES ARE MISDRIVEN FOR MORE THAN 4", OR AT LOCATIONS WHERE TYPICAL PILE CAP SECTION A ON S10.1 DOES NOT APPLY, CONTRACTOR SHALL CONSULT ENGINEER AS SPECIAL CASE.
3. CONTRACTOR SHALL PLACE PANELS ON MISDRIVEN PILE SIDE FIRST.
4. SPACING OF ADDITIONAL STIRRUPS AT WIDENED PILE CAP STAGE 1 POUR (TAB OUT) SECTION SHALL NOT EXCEED TYPICAL STIRRUP SPACING SHOWN IN PILE CAP ELEVATIONS, SEE S9.1–S9.16.
5. STAGE 2 STIRRUP HEIGHT VARIES OUTSIDE AND WITHIN CRANE BEAM. SEE REFERENCE DETAILS.
6. CONTINUE TAB OUT TO 2'–8" INBOARD OF PILE B AT BENTS 18 AND 32. PROVIDE (7) ADDITIONAL #6 STIRRUPS AS INDICATED IN TAB OUT.
7. CONTINUE TAB OUT TO 2'–8" INBOARD OF PILE B AT BENT 26. PROVIDE (19) ADDITIONAL #6 STIRRUPS AS INDICATED IN TAB OUT.



PLAN - TRANSVERSE MISDRIVEN PILE - 6" TO 12"

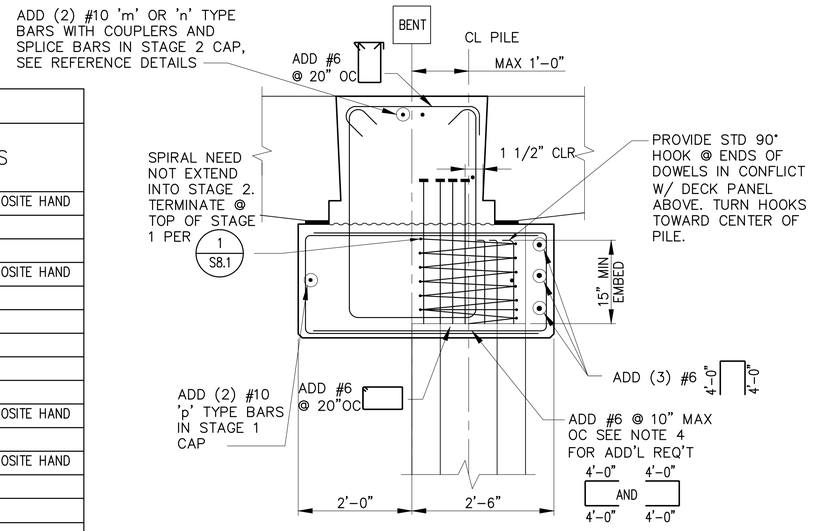
1/2"=1'–0"



PLAN - TRANSVERSE MISDRIVEN PILE - 1'-0" TO 1'-6"

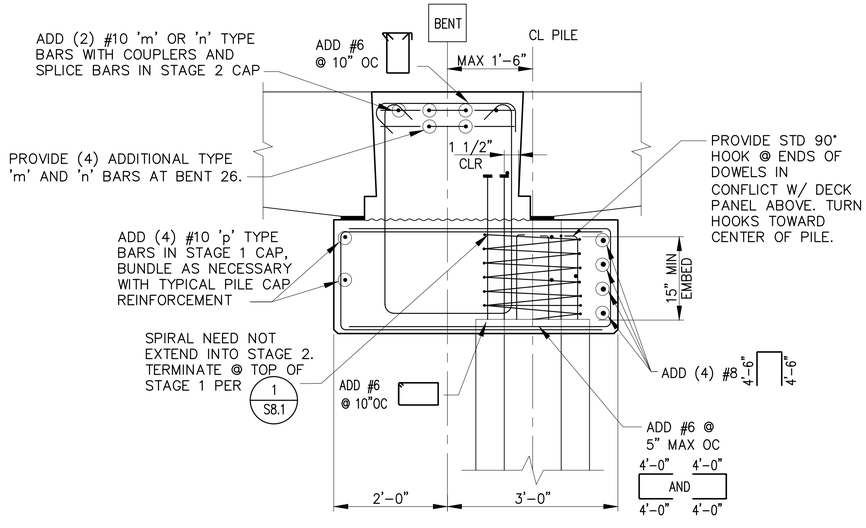
1/2"=1'–0"

GRID A, B, AND C TAB OUT DETAILS			
DETAIL	PILE LOCATION	REFERENCE DETAILS	NOTES
1	A–2	B/S9.1, B/S10.1, C/S10.1, 2/S10.8	APPLY DETAIL 1 OPPOSITE HAND
	A/B–18	A/S9.1, B/S10.1, C/S10.1, 2/S10.8	
	A–31	A/S9.11, B/S10.1, C/S10.1, 2/S10.8	
	A/B–32	B/S9.11, B/S10.1, C/S10.1, 2/S10.8	APPLY DETAIL 1 OPPOSITE HAND
	A–38	B/S9.11, B/S10.1, C/S10.1, 2/S10.8	
	A–39	A/S9.11, B/S10.1, C/S10.1, 2/S10.8	
	B–30	B/S9.11, B/S10.1, C/S10.1, 2/S10.8	
	B–42	A/S9.12, B/S10.1, C/S10.1, 2/S10.8	
	C–14	B/S9.5, B/S10.1, C/S10.1, 2/S10.8	
	C–20	A/S9.9, B/S10.1, C/S10.1, 2/S10.8	APPLY DETAIL 1 OPPOSITE HAND
	C–25	B/S9.10 B/S10.1, C/S10.1, 2/S10.8	
	C–40	B/S9.11, B/S10.1, C/S10.1, 2/S10.8	APPLY DETAIL 1 OPPOSITE HAND
	C–42	B/S9.11, B/S10.1, C/S10.1, 2/S10.8	
2	A/B–26	A/S9.10, B/S10.1, C/S10.1, 2/S10.8	
	A–61	A/S9.11, B/S10.1, C/S10.1, 2/S10.8	
	C–28	B/S9.5, B/S10.1, C/S10.1, 2/S10.8	APPLY DETAIL 2 OPPOSITE HAND
	C–34	B/S9.11, B/S10.1, C/S10.1, 2/S10.8	APPLY DETAIL 2 OPPOSITE HAND
	C–65	A/S9.11, B/S10.1, C/S10.1, 2/S10.8	



SECTION - TRANSVERSE MISDRIVEN PILE - 6" TO 1'-0"

A — 3/4"=1'–0"



SECTION - TRANSVERSE MISDRIVEN PILE - 1'-0" TO 1'-6"

B — 3/4"=1'–0"

RECORD DRAWINGS

PORT OF TACOMA FILE: N:\Struct\114-1114096 (POT Pier 4)\Drawings\Current\Phase 2_091251\091251-S46.2

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401 2535563401

kpff — 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
			SEK	9/14/16

RECORD DRAWINGS: THESE RECORD DRAWINGS HAVE BEEN PREPARED FROM INFORMATION PROVIDED BY OTHERS. KPFF HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION.

SEK CHECKED BY DATE
TAH PROJ. ENGR DATE
tlemons Jul 20, 2018 DIRECTOR ENG. DATE
APPROVED:

PIER 4 PHASE 2
RECONFIGURATION
PILE CAP TAB OUT DETAILS

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M. ID: 091251	DAT–HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: tlemons
PHASE: CONFORMED	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

6552
S46.2
SH 388 OF 499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

RECORD DRAWINGS