Port of Tacoma
People. Partnership. Performance.
P.O. Box 1837
Tacoma, WA 98401-1837
www.portoftacoma.com

April 27, 2016

TO: PLANHOLDERS

SUBJECT: PIER 4 PHASE 2 RECONFIGURATION
PROJECT NO. 091251
CONTRACT NO. 070136

ADDENDUM NUMBER TWO

This addendum is issued to amend the following:

SPECIFICATIONS

A. 26 56 36 FLOOD LIGHTING FIXTURES

1. REVISE the first sentence of paragraph 1.02.A to read as follows:

A**.** Remove and relocate ~~seven~~ six (6) existing 110' steel, flood light poles.

B. 31 62 00 DRIVEN PILES

1. REVISE paragraph 3.02.A to read as follows:

A. ~~Sheet pile installation shall occur after stone column installation is complete.~~ The Contractor shall not install sheet piling until all stone columns within 200 feet of the sheet piling have been installed. If excessive movement of the sheet piles occurs at this offset distance, then the Engineer may direct the Contractor to stop sheet pile installation until a remedy is determined.

C. 31 66 13 STONE COLUMNS

1. REVISE paragraph 3.01.C to read as follows:

A. ~~Stone column installation shall be completed prior to installation of the sheet pile wall.~~ See Section 31 62 00 – Driven Piles for requirements regarding sequencing of stone column installation with installation of steel sheet piling.

D. 34 11 13 – TRACK RAILS

1. REVISE paragraph 2.01.B and 2.01.C to read as follows:

E. Rail shall be 175 pounds per yard rail, conforming to ASTM A 759-2010 and meeting the supplementary chemistry and mechanical requirements listed below for Advanced Head Hardened steel rail.

1. Carbon 0.84 to 0.92 percent
2. Manganese ~~0.70~~ 0.65 to ~~1.30~~ 1.25 percent
3. Phosphorus ~~0.04~~ 0.03 percent maximum
4. Sulfur ~~0.05~~ 0.025 percent maximum
5. Silicon 0.10 to 0.70 percent

C. Rail mechanical properties shall be within the following ranges.

1. Brinell Harness Number = 370 to 390 (per ASTM D 10 and E 140)
2. Yield Strength = 120,000 to ~~135,000~~ 140,000 psi
3. Tensile Strength = 180,000 to 195,000 psi

DRAWINGS

A. DRAWING E8.2 CONDUIT AND CONDUCTOR SCHEDULE

1. REVISE Conduit and Conductor Schedule as denoted. (See revised Drawing E8.2 attached)

B. DRAWING S40.1 CRANE RAIL DETAILS – SHEET 1

1. REVISE Detail 2 – Section – Soft Mount Rail (See revised Drawing S40.1 attached.)

Receipt for this addendum shall be indicated in the space provided in Section 00 41 00, Bid Form.

END OF SECTION

ATTACHMENTS:

Attachment A - Revised Drawing E8.2

Attachment B - Revised Drawing S40.1

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	–	–	–	**FOV5**	**CPV5**	**FIBER**
FOB6	**1**	**2"**	②	–	–	–	**FOV5**	**CPV4**	**FIBER**
FOB7	**1**	**2"**	②	–	–	–	**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		㉒		**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	–	–	–	**FOV7**	**CPV7**	**FIBER**
FOB26	**1**	**2"**	②	–	–	–	**FOV7**	**CPV6**	**FIBER**
FOB27	**1**	**2"**	②	–	–	–	**SV213**	**FOV7**	**FIBER**
FOB28	**4**	**4"**	②		⑳		**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	–	㉖	–	**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		⑮		**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	–	–	–	**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	–	㉘	–	**J-BOX**	**COMM CAB TO POLE YL01**	**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	1	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 W11	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**
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"	②④	–	–	–	TPUCV5	TPUPV6	
TPUC6	1	4"	②④	–	–	–	TPUPV6	TPUPV7	
TPUC7	1	4"	②④	–	–	–	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"	②④	–	–	–	TPUCV5	TCL METERING SECTION	⑤
TPUC12	1	4"	②④	–	–	–	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, (1) 12–FIBER SM FO CABLE, (7) 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, (1) 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, (1) 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, (1) 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, (1) 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, (1) 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.

Port of Tacoma
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MARK:	REVISION:	BY:	APPR:	DATE:
1	PER ADDENDUM #2	HAS	DKS	4/25/16

K. SAMTELIS — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 2/14/16

APPROVED: 4-26-16
DIRECTOR ENG. DATE

CHECKED BY DATE
PROJ. ENGR DATE
Curtis Apr 25, 2016
PRINTED BY: Curtis
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

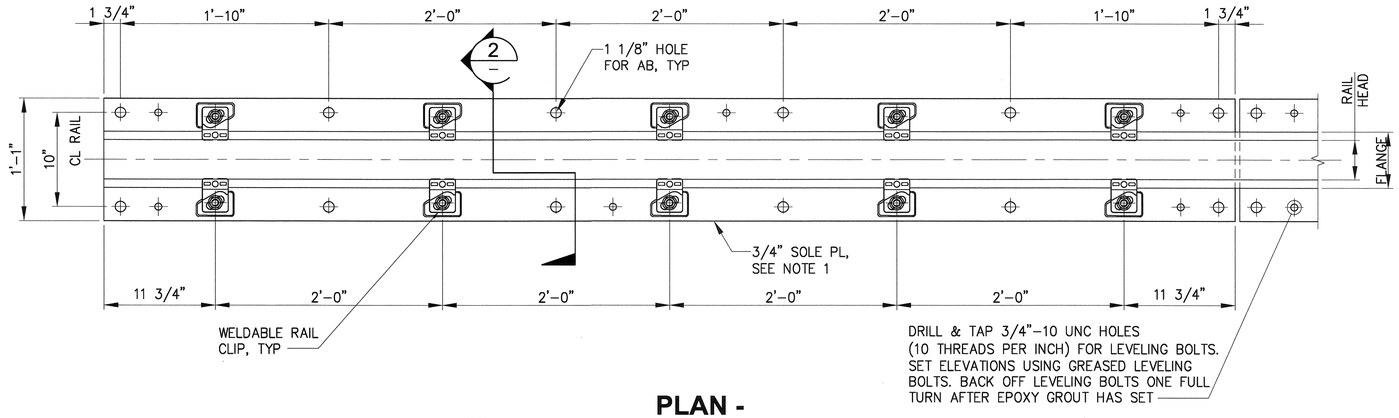
PIER 4 PHASE 2 RECONFIGURATION
CONDUIT AND CONDUCTOR SCHEDULE

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

6552
E8.2
SH 166 OF 499

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

PORT OF TACOMA FILE: R:\5650-041.01\Dwgs\091251-E802

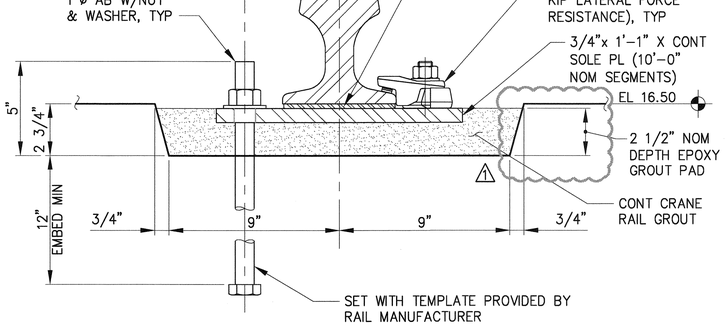


PLAN - SOFT MOUNT RAIL

1 / S28.1, S40.2 — 1 1/2"=1'–0"

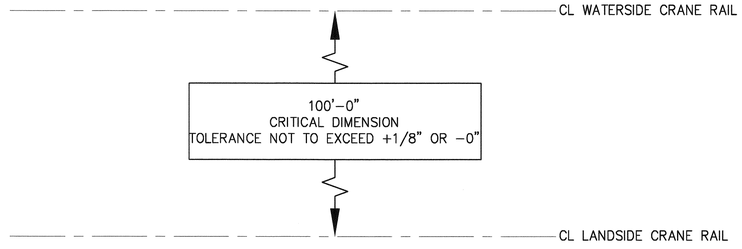
NOTES:

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

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MARK:	REVISION:	BY:	APPR:	DATE:
1	ADDENDUM #1			

APPROVED: Allan Jurgl
4-25-16
DIRECTOR ENG. DATE

SEK			
CHECKED BY	DATE		
TAH			
PROJ. ENGR	DATE		
Apr 22, 2016			

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

PIER 4 PHASE 2 RECONFIGURATION
CRANE RAIL 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:	BID	PARCEL:	DRAWING SCALE: AS NOTED

SECTION: 27

6552
S40.1
SH 377 OF 499