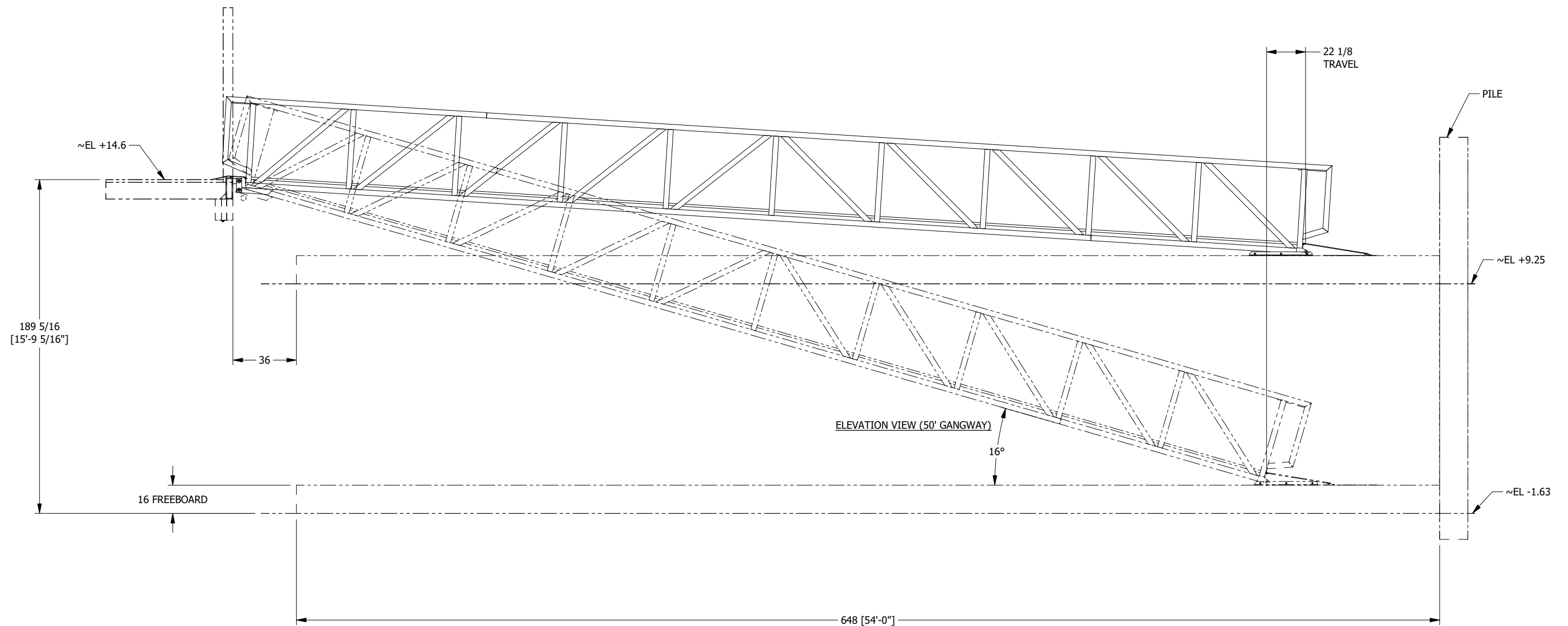




NOTES
1. CUSTOMER IS RESPONSIBLE FOR VERIFYING
ABUTMENT IS ADEQUATE TO SUPPORT THE
REACTION AND MOMENT STATED ON
DRAWING A400.

TOPPER
INDUSTRIES INC.

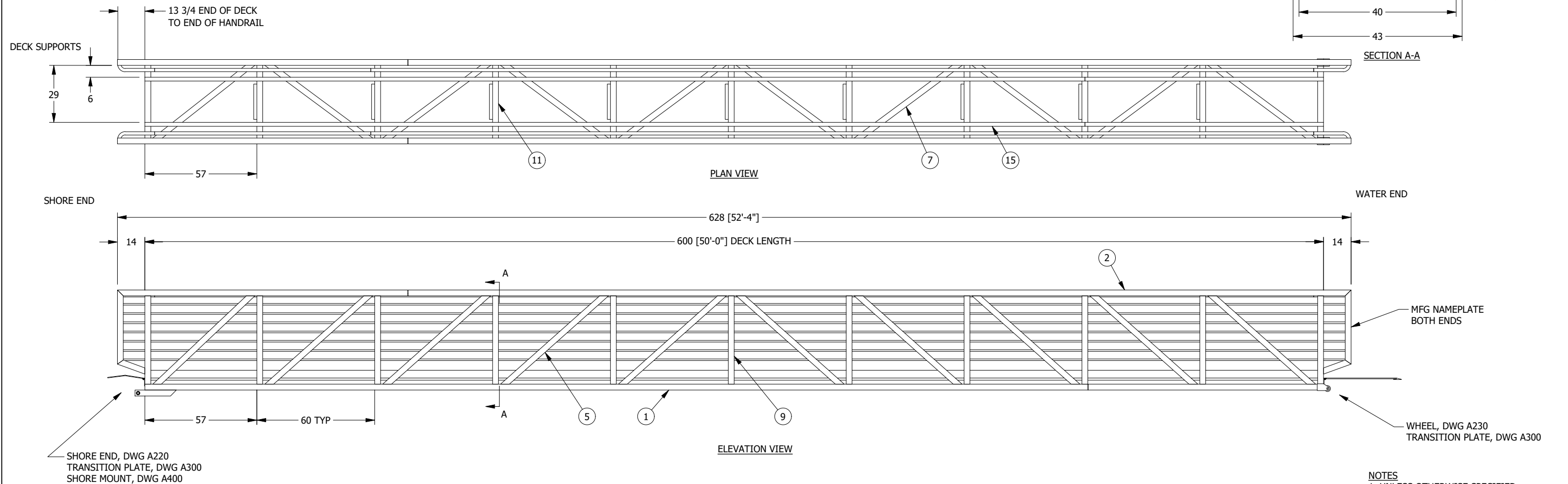
PO BOX 2050
WOODLAND, WA 98674

(360) 841-8320 (800) 332-DOCK
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SPECIFICALLY AUTHORIZED BY TOPPER INDUSTRIES, INC.

0	10/22/2019	JJV	JC	FOR APPROVAL	
NO.	DATE	BY	CHK	REVISION DESCRIPTION	
				3'x50' GANGWAY SITE ELEVATIONS CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON	
SIZE B	DWG NO. 7478-A100	JOB NO. 7478			

MAJOR COMPONENT LIST					
ITEM	COMPONENT	DESCRIPTION	MATERIAL	SIZE	NOTE
1	BOTTOM CHORD	SQUARE TUBE	ALUMINUM	3x3x.125	
2	TOP CHORD	SQUARE TUBE	ALUMINUM	3x3x.125	
5	SIDE DIAGONAL	SQUARE TUBE	ALUMINUM	3x3x.125	
7	BOTTOM DIAGONAL	SQUARE TUBE	ALUMINUM	3x3x.125	
9	POST	SQUARE TUBE	ALUMINUM	3x3x.125	
11	BRIDGE	SQUARE TUBE	ALUMINUM	3x3x.125	
15	DECK SUPPORT	SQUARE TUBE	ALUMINUM	2x2x.125	
18	MIDRAIL	PIPE	ALUMINUM	1/2" SCH 40	
22	HANDRAIL	PIPE	ALUMINUM	1 1/4" SCH 40	
29	TOERAIL	TOERAIL	ALUMINUM	1/4x4FB	
38	DECK, SANDBLASTED	DECK, 3/4x6	ALUMINUM	TOPPER	
63	SLAG IMPREGNATED OVERLAY	SLAG IMPREGNATED LAYOVER	CUSTOM	3/8	
47		RECT TUBE	STEEL A500	12x4x.500	



FABRICATION NOTES
1. BREAK ALL SHARP EDGES.
2. PROVIDE 1/4" DRAIN HOLES IN BOTTOM END OF ALL POSTS & SIDE DIAGONALS AND AT BOTTOM OF BOTH ENDS OF ALL CHORDS, BRIDGES, BOTTOM DIAGONALS AND HANDRAILS.

GENERAL STRUCTURAL NOTES
CONFORMS TO 2015 ADM AND 2015 IBC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY IN THE FINAL CONFIGURATION ONLY.

LIVE LOAD: 50 PSF
UTILITY LOAD: 30 PSF
WIND LOAD: 115 MPH, 3 SECOND GUST
DEFLECTION: L/240

STRUCTURAL MATERIAL (UNLESS OTHERWISE SPECIFIED):
ALUMINUM SHAPES AND PIPE: 6061-T6, MILL FINISH.
ALUMINUM TRANSITION PLATES: 5052-H32.
ALUMINUM HANDRAIL RETURNS: 6063-T563.
STEEL PLATE, CHANNEL AND ANGLE: ASTM A36.
STEEL HSS: ASTM A500 GRADE B (Fy = 46 KSI).
STEEL W-BEAM: ASTM A992 GRADE 50.
STEEL PIPE: ASTM A53 GRADE B.
GALVANIZING: ASTM A123.

STRUCTURAL WELDING FABRICATION SHALL BE IN ACCORDANCE WITH THE AA SPECIFICATIONS FOR ALUMINUM STRUCTURES. WELD USING ALUMINUM FILLER METAL ER5356. FABRICATION, WELDING, WELDING PROCEDURES AND INSPECTION SHALL CONFORM TO AWS D1.2:2014 AND AWS D1.1:2010, AS APPLICABLE, UNLESS OTHERWISE NOTED.

UHMW INDICATES ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE.



GANGWAY APPROX
SHIPPING WT = 2454 LBS

PO BOX 2050
WOODLAND, WA 98674

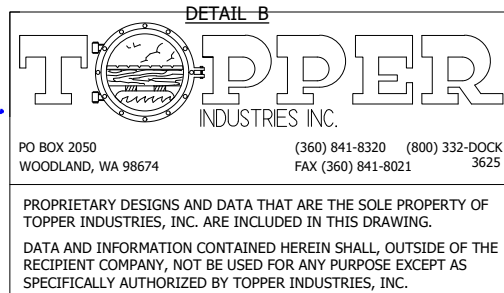
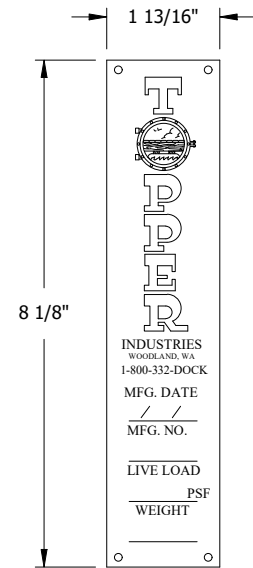
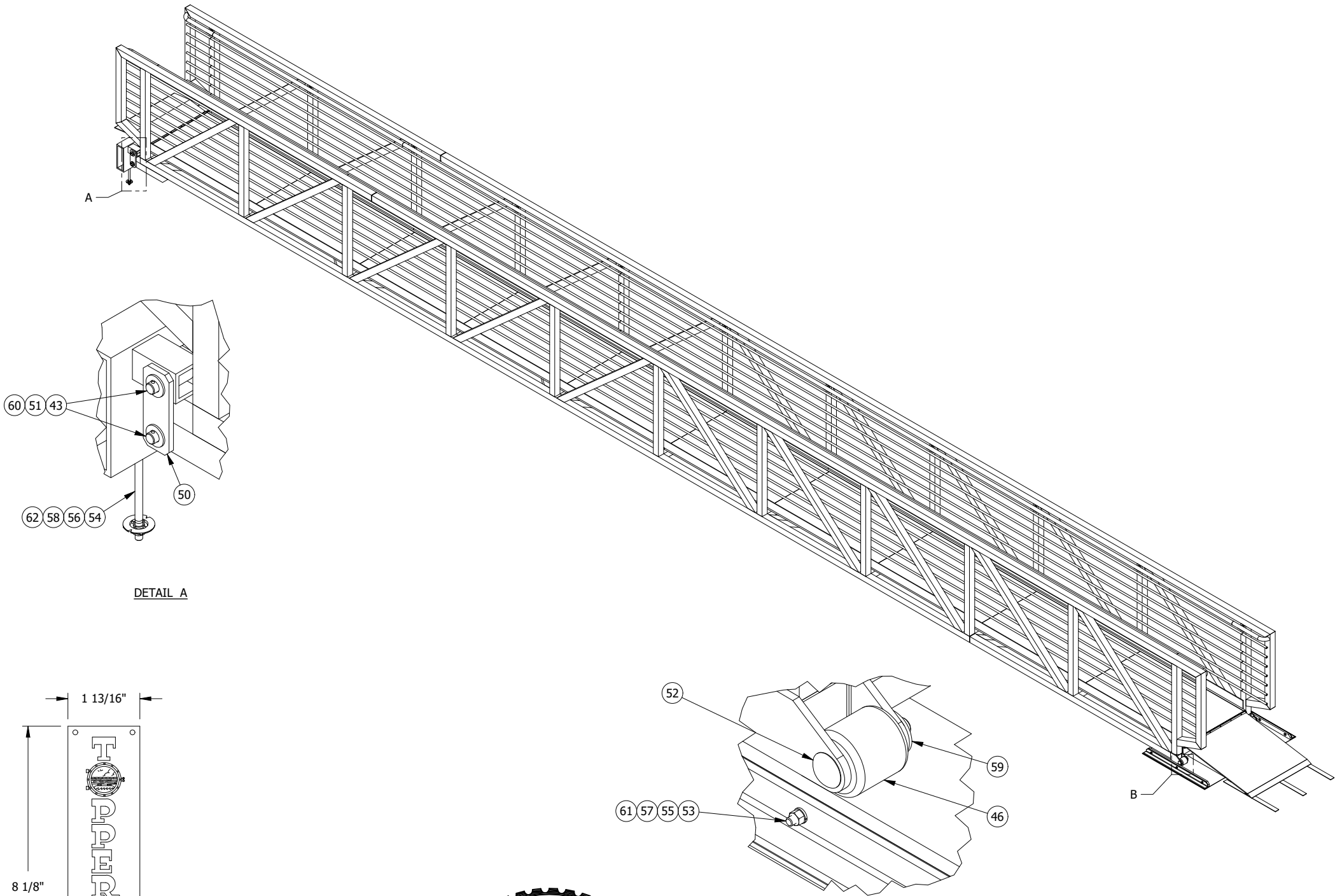
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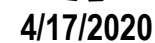
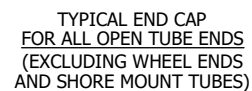
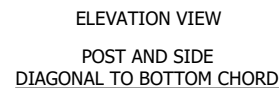
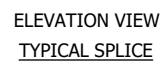
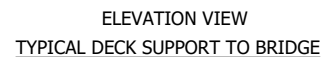
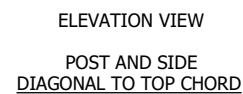
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NO.	DATE	BY	CHK	REVISION DESCRIPTION	
3'x50' GANGWAY PLAN, ELEVATION AND SECTION VIEWS CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON					
SIZE B	DWG NO. 7478-A200			JOB NO. 7478	

PARTS LIST				
ITEM	DESCRIPTION	MATERIAL	SIZE	BOLT LENGTH
1	SQUARE TUBE	ALUMINUM	3x3x.125	
2	SQUARE TUBE	ALUMINUM	3x3x.125	
3	SQUARE TUBE	ALUMINUM	3x3x.125	
4	SQUARE TUBE	ALUMINUM	3x3x.125	
5	SQUARE TUBE	ALUMINUM	3x3x.125	
6	SQUARE TUBE	ALUMINUM	3x3x.125	
7	SQUARE TUBE	ALUMINUM	3x3x.125	
8	SQUARE TUBE	ALUMINUM	3x3x.125	
9	SQUARE TUBE	ALUMINUM	3x3x.125	
10	SQUARE TUBE	ALUMINUM	3x3x.125	
11	SQUARE TUBE	ALUMINUM	3x3x.125	
12	SQUARE TUBE	ALUMINUM	3x3x.125	
13	SQUARE TUBE, DROP CHORD	ALUMINUM	3x3x.125	
14	SQUARE TUBE	ALUMINUM	3x3x.125	
15	SQUARE TUBE	ALUMINUM	2x2x.125	
16	SQUARE TUBE	ALUMINUM	2x2x.125	
17	PIPE	ALUMINUM	1/2" SCH 40	
18	PIPE	ALUMINUM	1/2" SCH 40	
19	PIPE	ALUMINUM	1/2" SCH 40	
20	TRANS BARREL	ALUMINUM	1/2" SCH 40	
21	TRANS BARREL	ALUMINUM	1/2" SCH 40	
22	PIPE	ALUMINUM	1 1/4" SCH 40	
23	PIPE	ALUMINUM	1 1/4" SCH 40	
24	90 RETURN, 1 1/4" SCH 40, 00010	ALUMINUM	TOPPER	
25	PIPE, BOSS	ALUMINUM	1 1/2" SCH 40	
26	RUN-OFF ANGLE	ALUMINUM	L2x2x1/4	
27	TRANS PLATE RUN-OFF STRIP	ALUMINUM	1/8x2FB	
28	TOERAIL	ALUMINUM	1/4x4FB	
29	TOERAIL	ALUMINUM	1/4x4FB	
30	TRANS MOUNT	ALUMINUM	1/4x4FB	
31	TRANS MOUNT	ALUMINUM	1/4x4FB	
32	PLATE, END CAP	ALUMINUM	1/8x2 3/4	
33	PLATE, END CAP	ALUMINUM	1/8x2 3/4	
34	WHEEL RUN-OFF PLATE	ALUMINUM	1/8x12	
35	WHEEL PLATE, LD, 3" CHORD, 00073	ALUMINUM	TOPPER	
36	TRANS PLATE	ALUM 5052-H32	3/8x36	
37	TRANS PLATE, 1 1/4" BREAK	ALUM 5052-H32	1/4x18	
38	DECK, 3/4x6	ALUMINUM	TOPPER	
39	DECK TRIM	ALUMINUM	TOPPER	
40	UTILITY CHANNEL	ALUMINUM	TOPPER	
41	HANDRAIL BRACKET, 1 1/4, 00011	ALUMINUM	TOPPER	
42	TRANS AXLE	ALUMINUM	1/2" DIA	
43	BUSHING, ISO, 3" CHORD, 00008	UHMW, WHT	TOPPER	
44	TRANS NOSE, 3/8" TRANS PLT	UHMW, BLK	3/4x4	
45	RUN-OFF RUB STRIP	UHMW, BLK	3/4x2	
46	WHEEL, 3" DIA, 00015	UHMW, BLK	TOPPER	
47	RECT TUBE	STEEL A500	12x4x.500	
48	SHORE MT TUBE, 3" CHORD, 00003	STEEL A500	TOPPER	
49	SQUARE TUBE	STEEL A500	3x3x.375	
50	DROP LINK, 1/2x3, 00001	STEEL, HDG	TOPPER	
51	HINGE PIN, 1x6, 3" CHORD, 00002	STEEL 4142	TOPPER	4 1/2 in
52	BOLT AXLE, 3/4" DIA, 3" CHORD, 00074	STEEL, HDG	TOPPER	1 1/4 in
53	BOLT, HEX, A307	STEEL, HDG	3/8-16 UNC	14 in
54	BOLT, HEX, A307	STEEL, HDG	5/8-11 UNC	
55	NUT, HEX	STEEL, HDG	3/8-16 UNC	
56	NUT, HEX	STEEL, HDG	5/8-11 UNC	
57	WASHER, FLAT	STEEL, HDG	3/8"	
58	WASHER, FLAT	STEEL, HDG	5/8"	
59	WASHER, FLAT	STEEL, HDG	3/4"	
60	WASHER, F436	STEEL, HDG	1"	
61	WASHER, LOCK	STEEL, HDG	3/8"	

PARTS LIST				
ITEM	DESCRIPTION	MATERIAL	SIZE	BOLT LENGTH
62	MALLEABLE IRON WASHER	STEEL	5/8	
63	SLAG IMPREGNATED LAYOVER	CUSTOM	3/8	

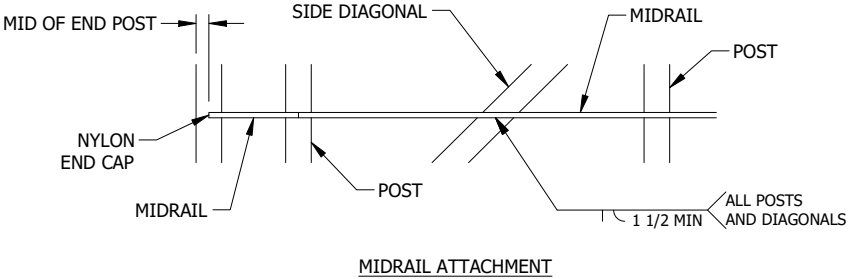
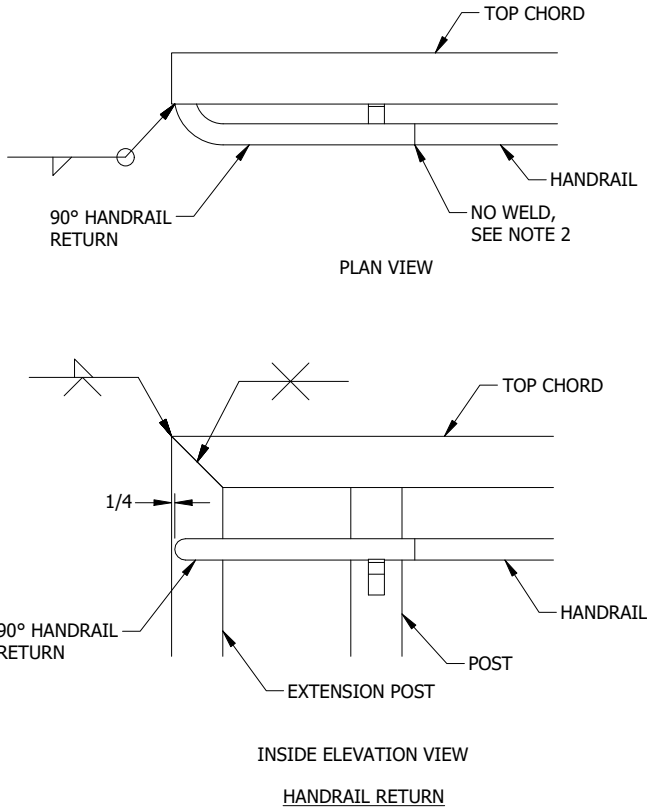
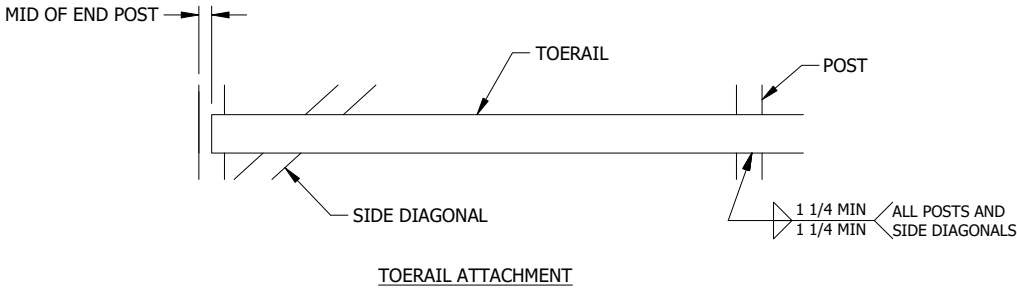
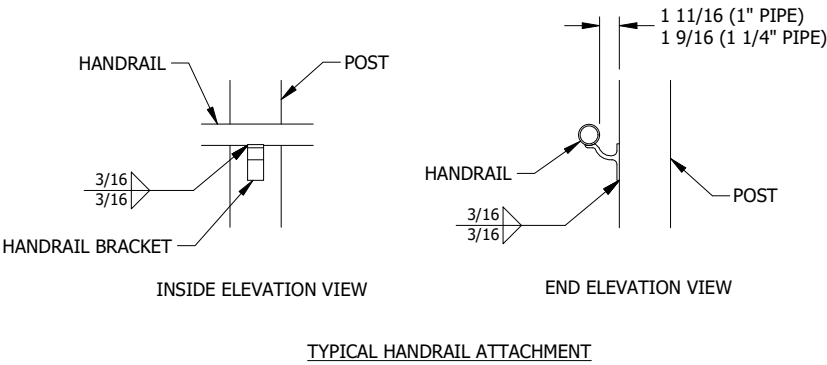
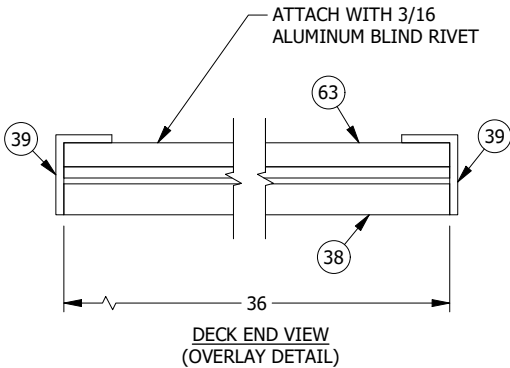
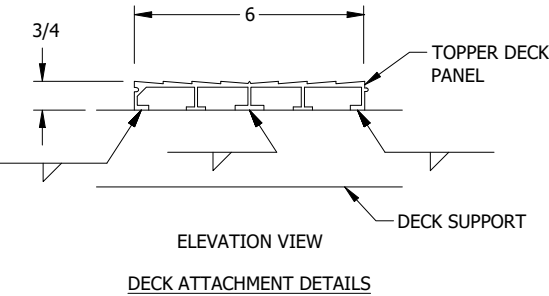
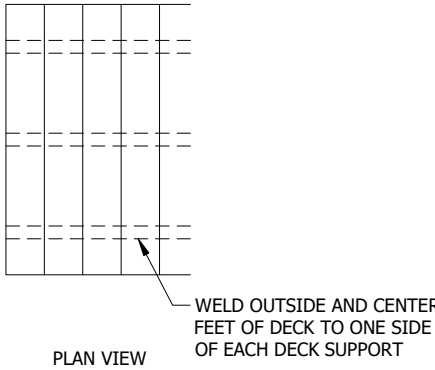
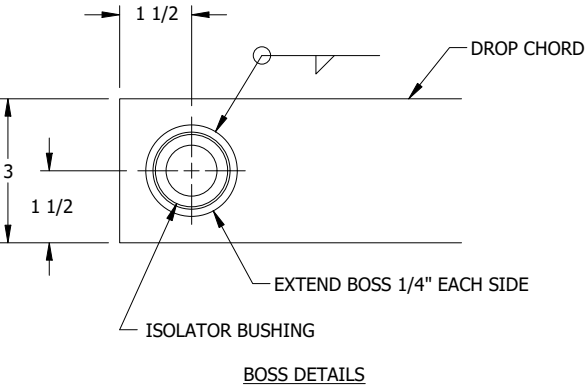
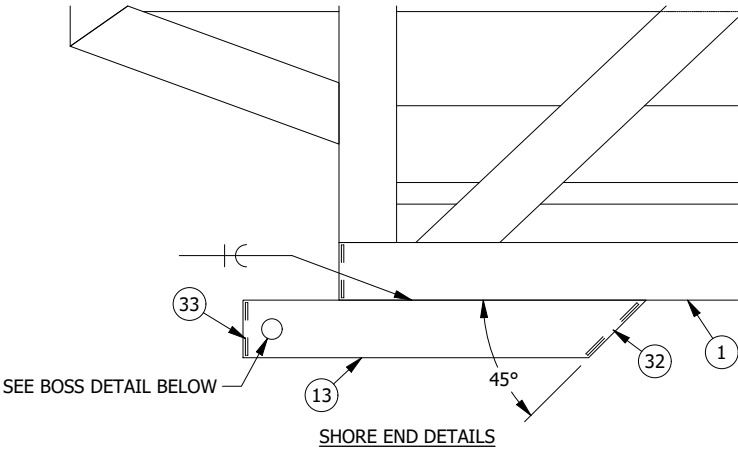


0	10/22/2019	JJV	JC	FOR APPROVAL	
NO.	DATE	BY	CHK	REVISION DESCRIPTION	
				3'x50' GANGWAY PARTS LIST CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON	
SIZE B	DWG NO. 7478-A201	JOB NO. 7478			



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0	10/22/2019	JJV	JC	FOR APPROVAL	
NO.	DATE	BY	CHK	REVISION DESCRIPTION	
3'x50' GANGWAY WELD DETAILS CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON					
SIZE B	DWG NO.	7478-A210		JOB NO.	7478



- NOTES
- UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES.
- WELD SIZE IS EQUAL TO THICKNESS OF THINNER PART WELDED, MAX 5/16".
 - ALL HANDRAIL SPLICES HAVE AN INTERNAL PIPE SPLICE CONNECTOR. PLUG WELDED BOTH SIDES ON BOTTOM.
 - REFERENCE DWG A201 FOR PARTS LIST.



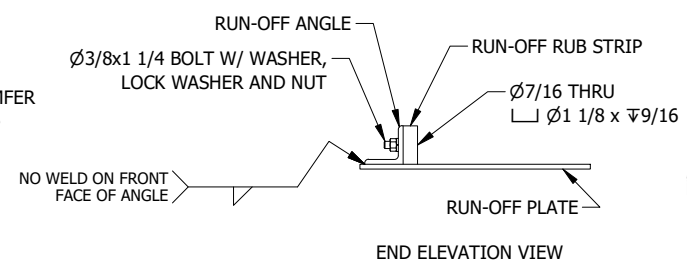
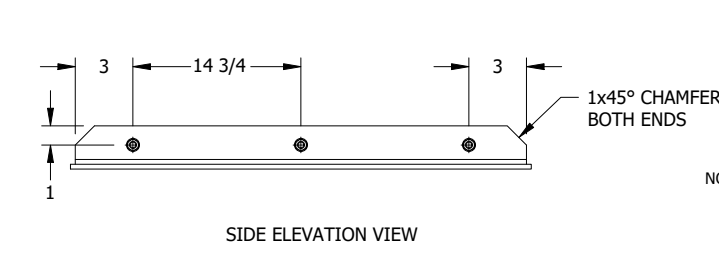
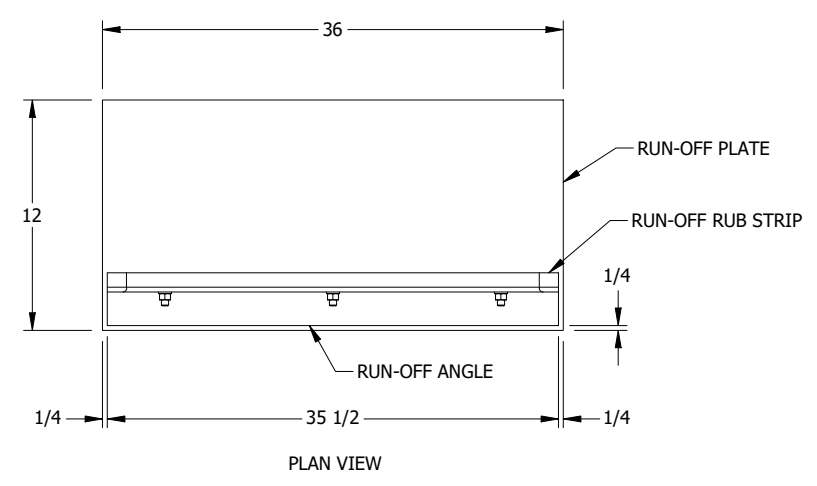
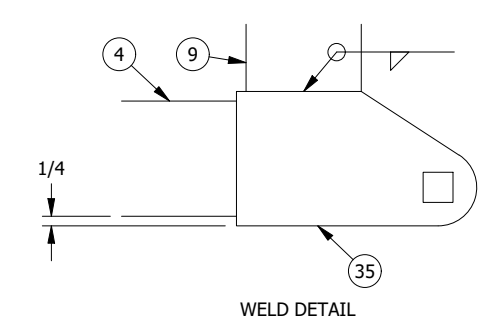
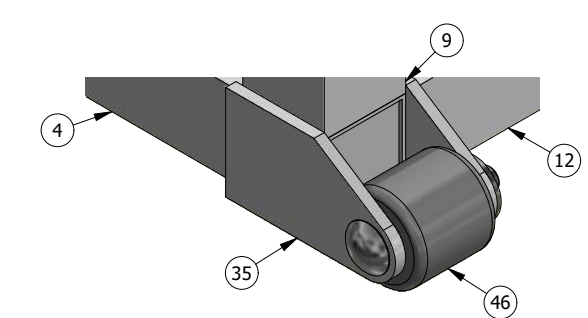
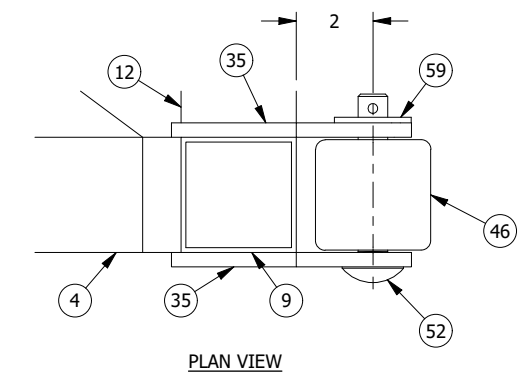
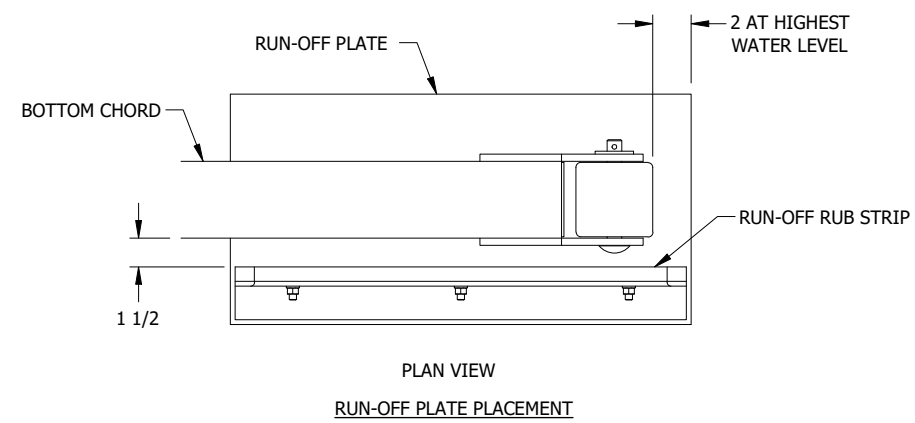
TOPPER INDUSTRIES INC.

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WOODLAND, WA 98674

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0	10/22/2019	JJV	JC	FOR APPROVAL
NO.	DATE	BY	CHK	REVISION DESCRIPTION
				3'x50' GANGWAY - SHORE END, HANDRAIL, MIDRAIL AND DECK DETAILS
				CAPE DISAPPOINTMENT GWY
				WEST COAST CONTRACTORS
				WASHINGTON
SIZE B	DWG NO. 7478-A220	JOB NO. 7478		



RUN-OFF PLATE ASSEMBLY
ATTACHED WITH EPOXY OR FASTENED
WITH BOLTS, EPOXY/BOLTS/HOLES
NOT BY TOPPER



- NOTES
1. UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES.
- WELD SIZE IS EQUAL TO THICKNESS OF THINNER PART WELDED, MAX 5/16".
 2. GALVANIZE STEEL TO ASTM A123.
 3. REFERENCE DWG A201 FOR PARTS LIST.

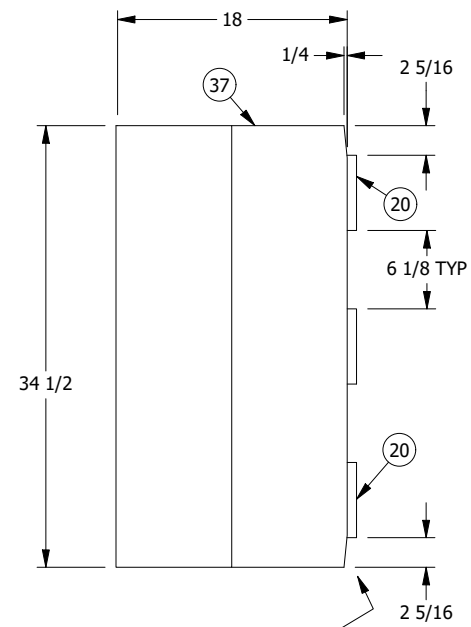
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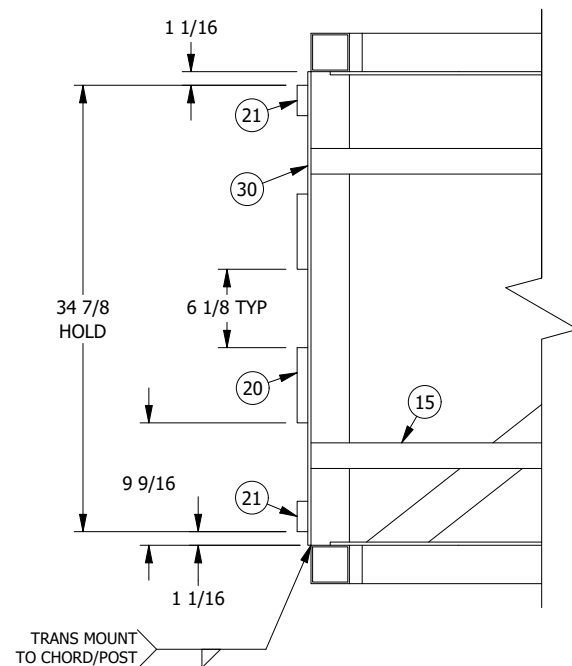
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0	10/22/2019	JJV	JC	FOR APPROVAL
NO.	DATE	BY	CHK	REVISION DESCRIPTION
				3'x50' GANGWAY WHEEL DETAILS CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON
SIZE B	DWG NO. 7478-A230	JOB NO. 7478		



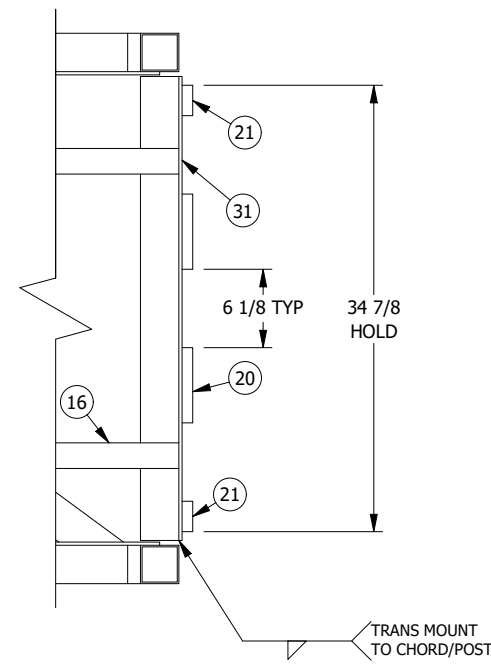
ANGLE FROM END OF PIPE TO
END OF PLATE, TYP EACH SIDE

TRANSITION PLATE
SHORE END

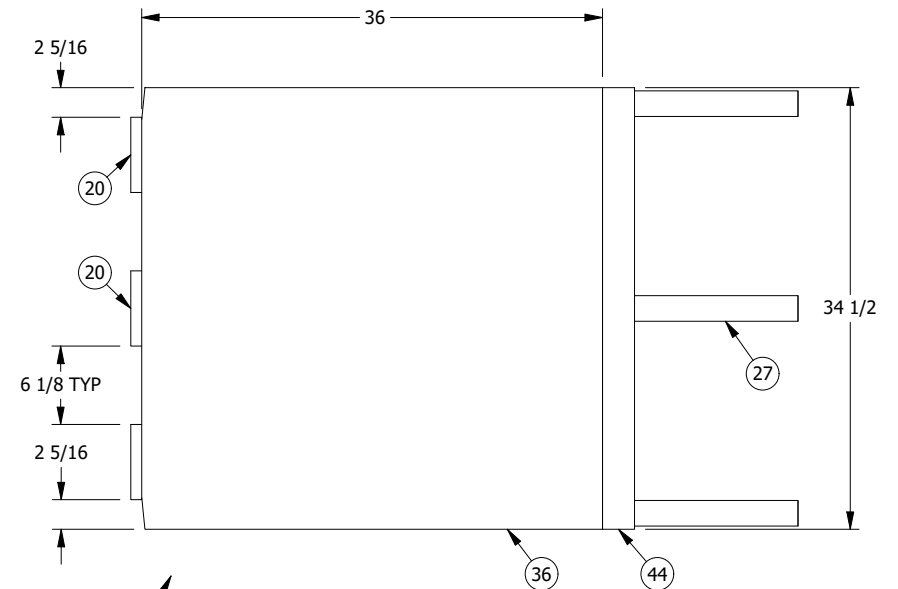


TRANS MOUNT
TO CHORD/POST

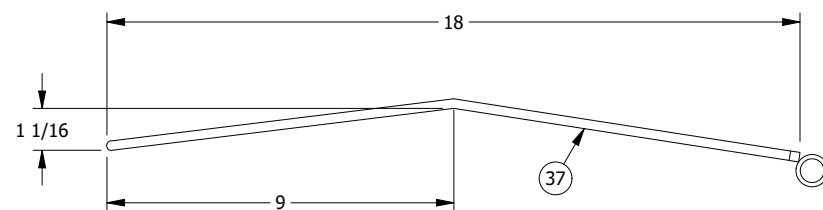
TRANS MOUNTS



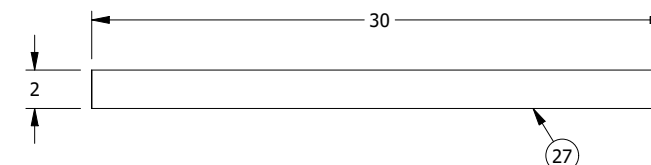
TRANS MOUNT
TO CHORD/POST



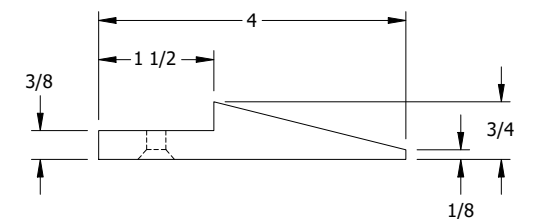
ANGLE FROM END OF PIPE TO
END OF PLATE, TYP EACH SIDE
TRANSITION PLATE
WATER END



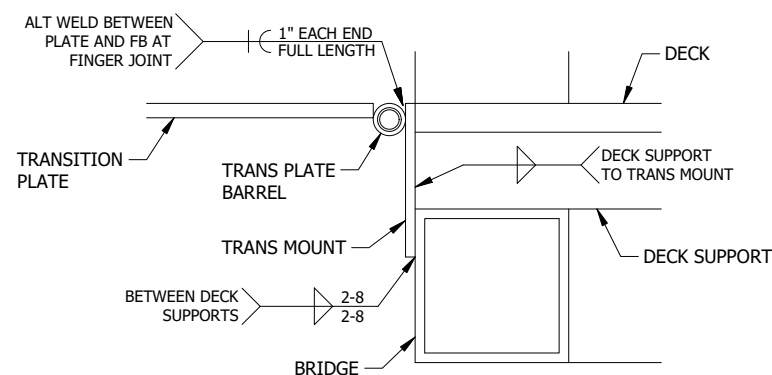
BREAK DETAILS



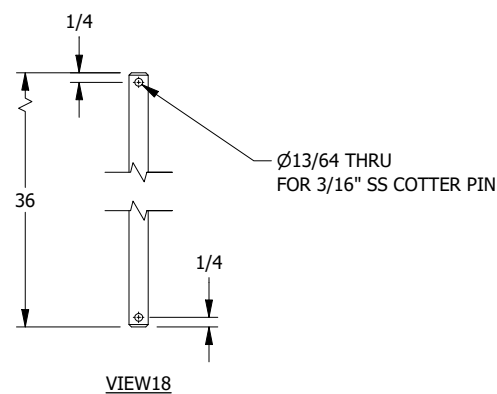
RUN-OFF STRIP
ATTACHED WITH EPOXY OR FASTENERS,
EPOXY/FASTENERS/HOLES
NOT BY TOPPER



TRANS NOSE DETAILS
FASTEN WITH 1/4-20 FH SS
SCREWS AT 6" OC, GRIND
FLUSH WITH TOP OF PLATE



TYPICAL WELD DETAILS



VIEW18

NOTES

- UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES.
- WELD SIZE IS EQUAL TO THICKNESS OF THINNER PART WELDED, MAX 5/16".
- METALIZE TOP SURFACE OF TRANSITION PLATES:
GRADE 2, MEDIUM.
- IF TRANSITION PLATE HAS BREAK, RADIUS IS 1/2".
- UNLESS UHMW NOSE IS USED, BULLNOSE LEADING EDGE OF TRANSITION PLATE.
- REFERENCE DWG A201 FOR PARTS LIST.



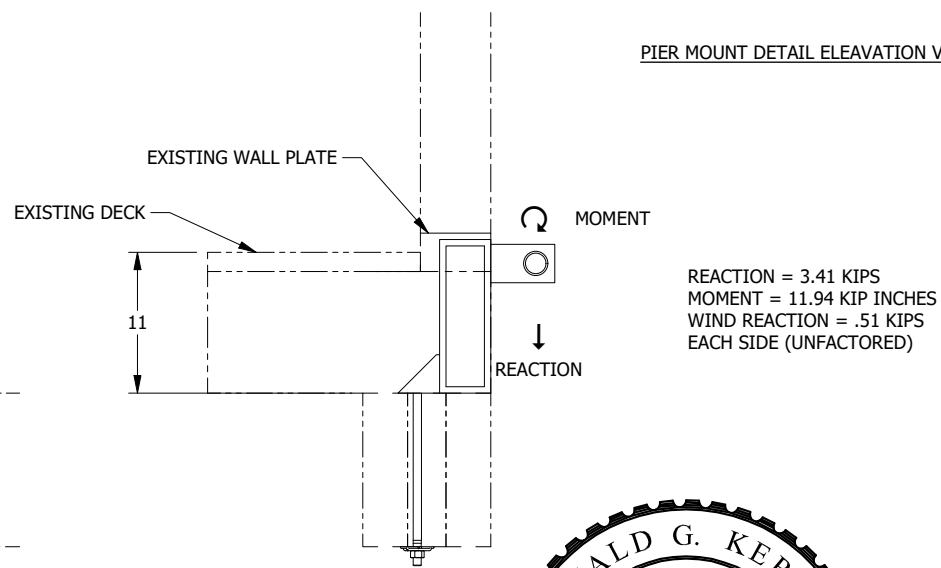
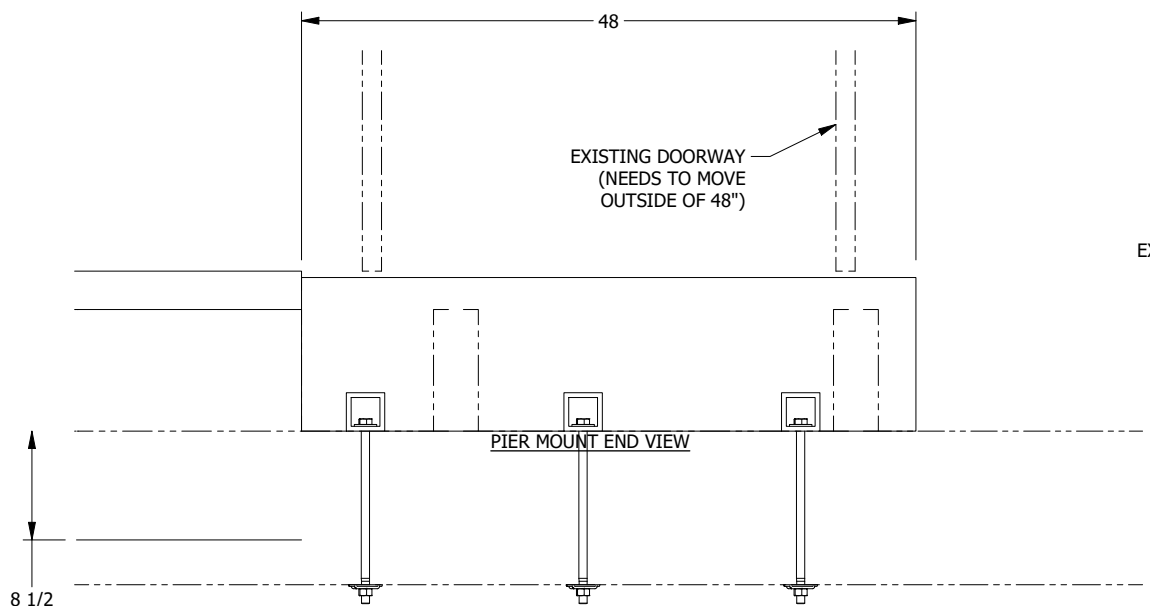
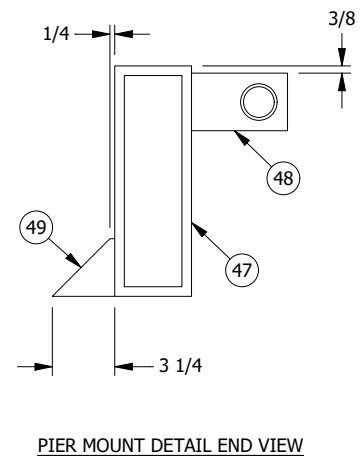
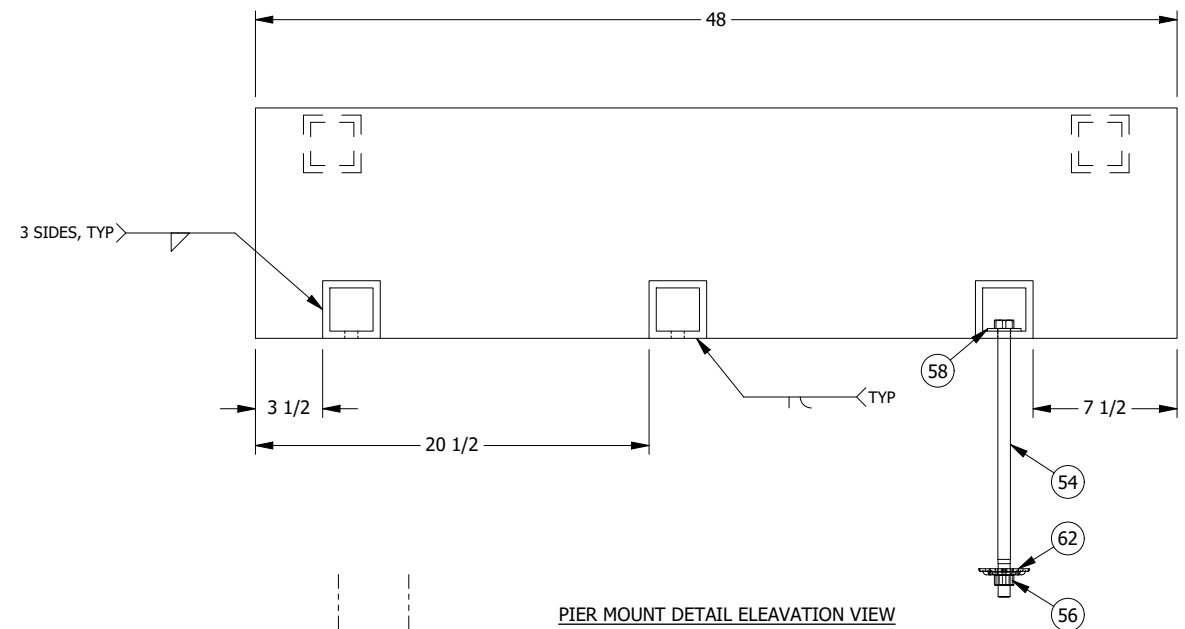
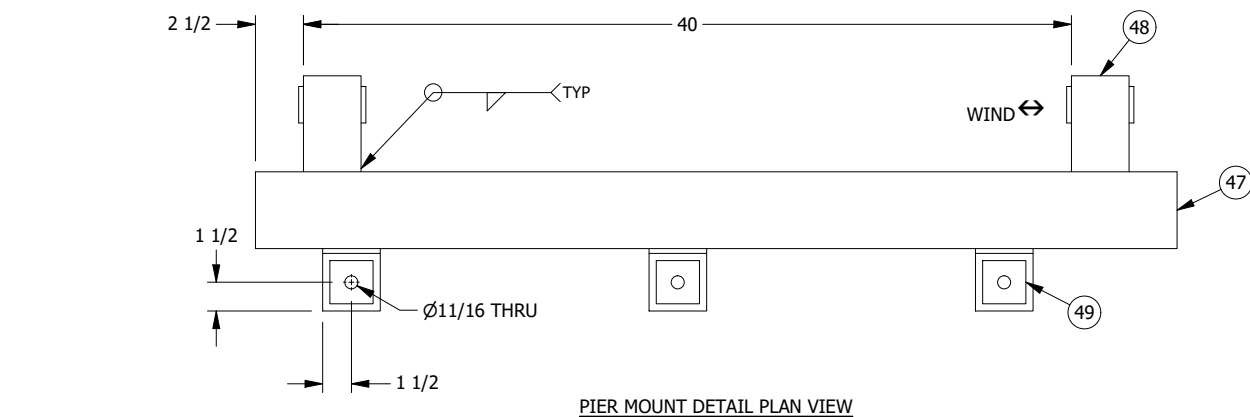
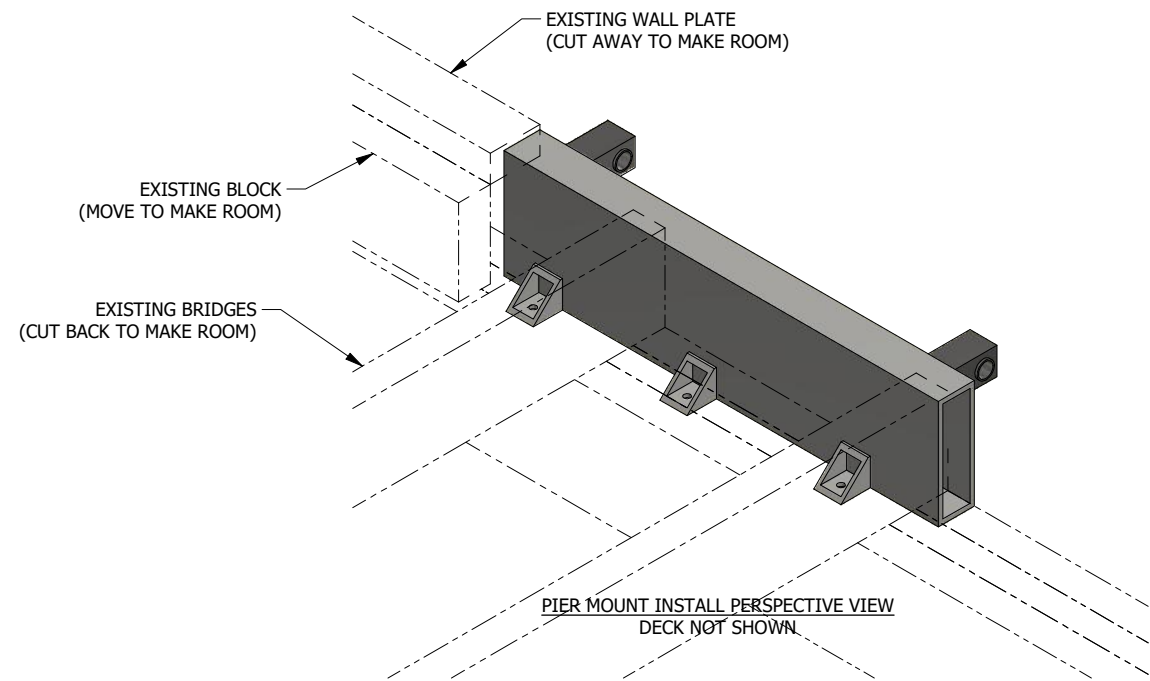
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0	10/22/2019	JJV	JC	FOR APPROVAL
NO.	DATE	BY	CHK	REVISION DESCRIPTION
3'x50' GANGWAY TRANSITION PLATES CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON				
SIZE B	DWG NO. 7478-A300	JOB NO. 7478		



**CUSTOMER IS RESPONSIBLE FOR VERIFYING
PIER IS ADEQUATE TO SUPPORT THE
STATED REACTION AND MOMENT**

- NOTES
1. UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES.
- WELD SIZE IS EQUAL TO THICKNESS
OF THINNER PART WELDED, MAX 5/16".
 2. GALVANIZE STEEL TO ASTM A123.
 3. REFERENCE DWG A201 FOR PARTS LIST.



4/17/2020

TOPPER
INDUSTRIES INC.

PO BOX 2050
WOODLAND, WA 98674

(360) 841-8320 (800) 332-DOCK
FAX (360) 841-8021 3625

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SPECIFICALLY AUTHORIZED BY TOPPER INDUSTRIES, INC.

0	10/22/2019	JJV	JC	FOR APPROVAL
NO.	DATE	BY	CHK	REVISION DESCRIPTION
				3'x50' GANGWAY SHORE MOUNT CAPE DISAPPOINTMENT GWY WEST COAST CONTRACTORS WASHINGTON
SIZE B	DWG NO. 7478-A400	JOB NO. 7478		