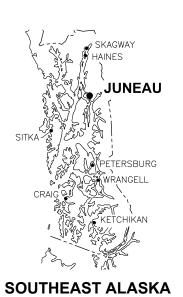
# **CITY & BOROUGH OF JUNEAU, ALASKA**

PORT OF JUNEAU CRUISE SHIP BERTHS

**SAFETY IMPROVEMENTS** 

**CBJ CONTRACT NO. DH17-045** 

-	PROJECT SCHEDULE				
-	DESCRIPTION	SCHEDULE			
	1. EARLIEST FIELD START	OCTOBER 2, 2017			
1	2. SUBSTANTIAL COMPLETION	DECEMBER 1, 2017			
1	3. FINAL COMPLETION	DECEMBER 15, 2017			

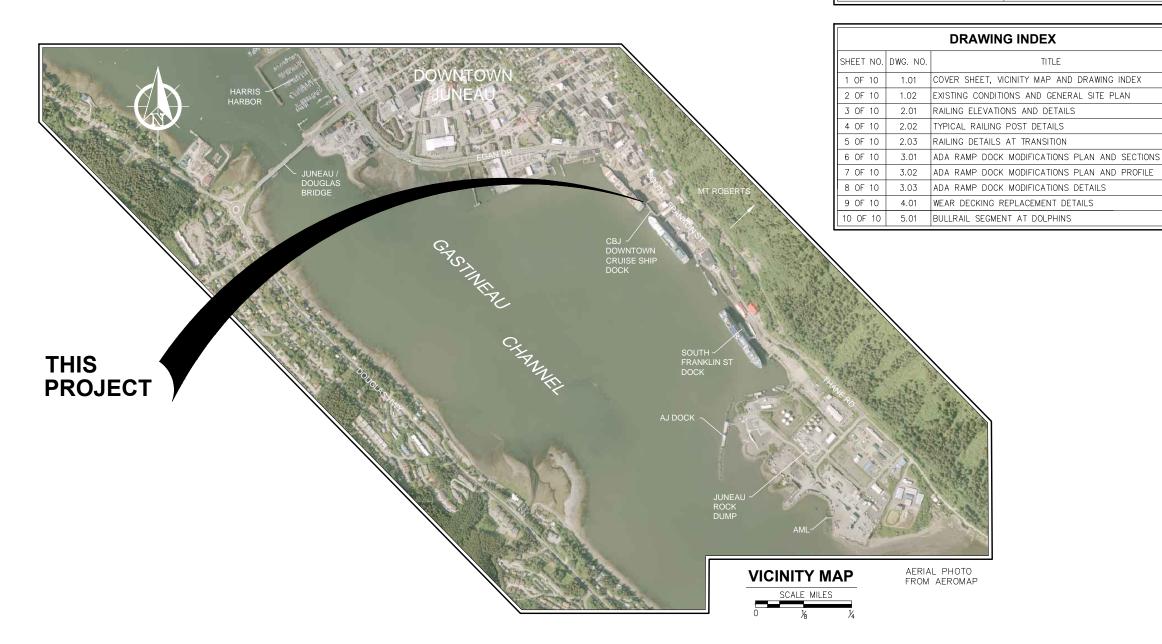


ALASKA

**LOCATION MAP** 

TIDAL DATA	ELEV. (FT)
HIGHEST OBSERVED WATER LEVEL	+24.58
MEAN HIGHER HIGH WATER (MHHW)	+16.30
MEAN HIGH WATER (MHW)	+15.34
MEAN SEA LEVEL (MSL)	+8.56
MEAN TIDE LEVEL (MTL)	+8.47
MEAN LOWER WATER (MLW)	+1.60
MEAN LOWER LOW WATER (MLLW)	0.0
LOWEST OBSERVED WATER LEVEL	-6.12

NOAA NOS/CO-OPS STATION ID: 9452210 JUNEAU, ALASKA





	REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.	



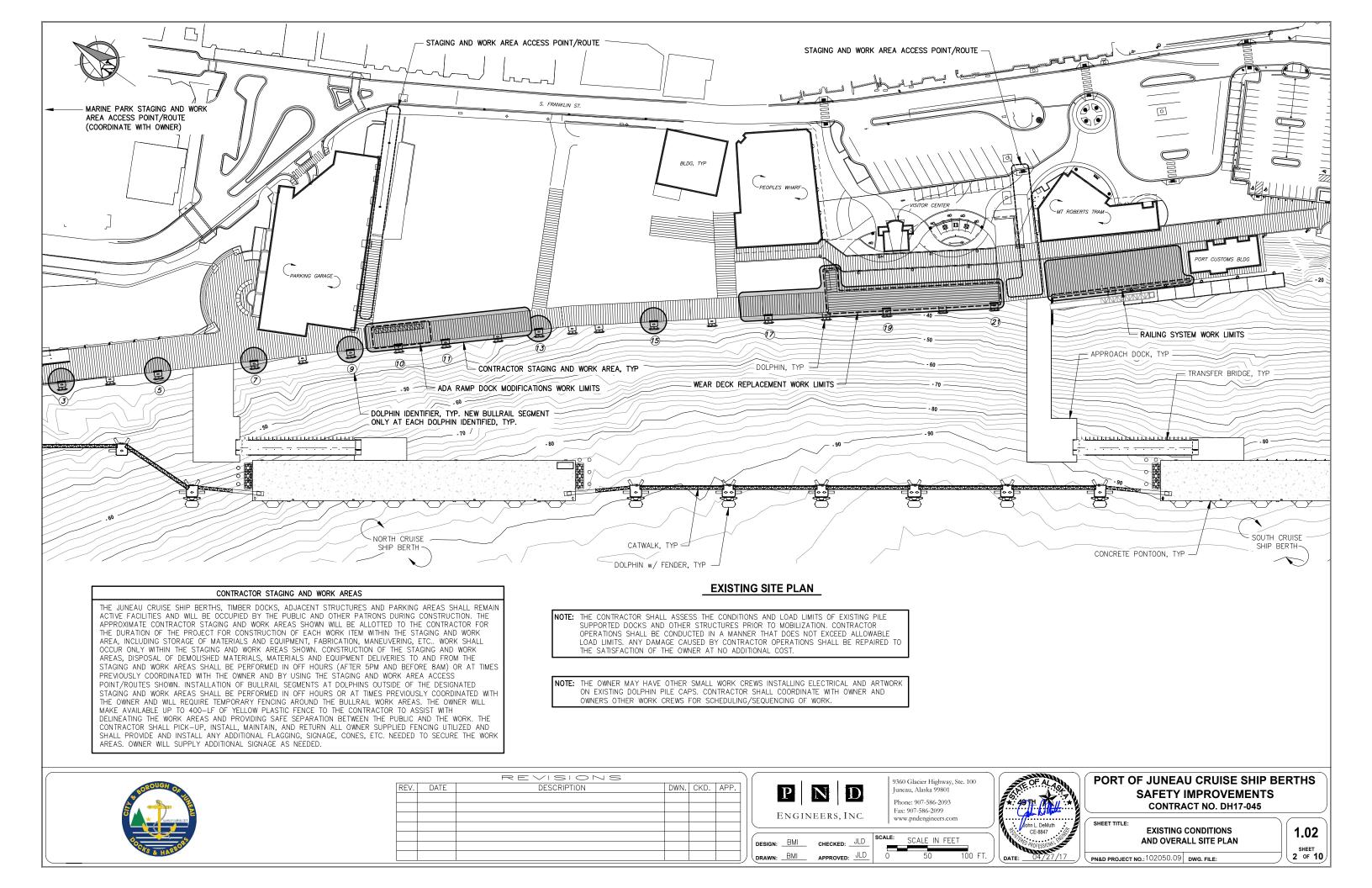
9360 Glacier Highway, Ste. 100 Juneau, Alaska 99801 Fax: 907-586-2099 www.pndengineers.com

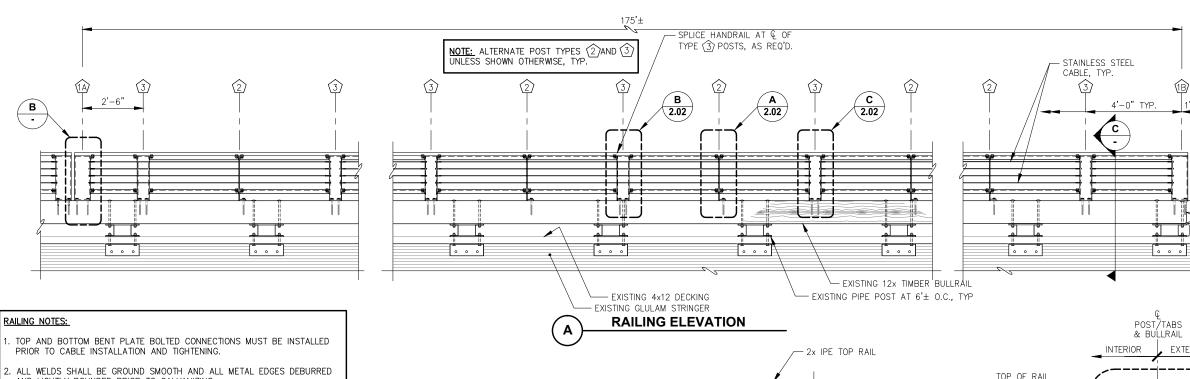
### PORT OF JUNEAU CRUISE SHIP BERTHS **SAFETY IMPROVEMENTS** CONTRACT NO. DH17-045

**COVER SHEET, VICINITY MAP** AND DRAWING INDEX

PN&D PROJECT NO.: 102050.09 DWG. FILE:

1.01 SHEET 1 OF 10



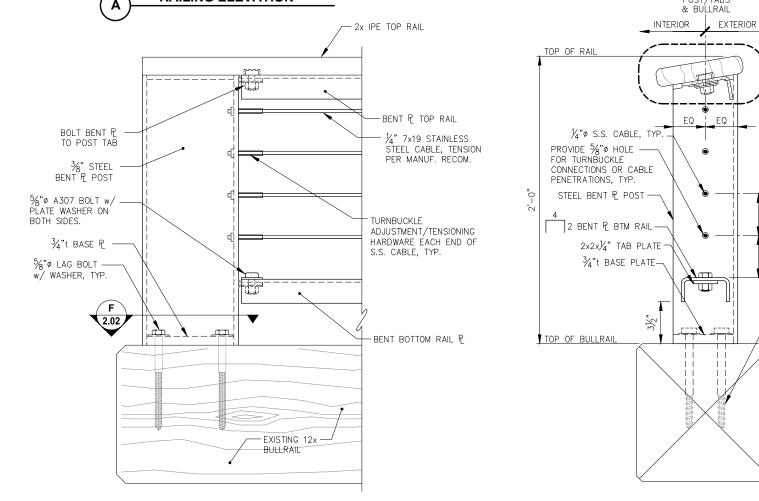


AND LIGHTLY ROUNDED PRIOR TO GALVANIZING.

3. TREAT TIMBER FIELD CUTS PER SPECIFICATIONS. ALL CUT OR FIELD WELDED GALV. MEMBERS SHALL BE GALV. REPAIRED PER SPECIFICATIONS.

- 4. LOCATION OF TURNBUCKLES FOR ILLUSTRATION PURPOSES ONLY. COORDINATE ACTUAL LOCATIONS PER CABLE MANUFACTURERS
- . TIGHTEN STAINLESS STEEL CABLE AS NECESSARY TO ALLEVIATE SAGGING PER MANUFACTURER'S RECOMMENDATIONS.
- . REMOVE EXISTING BULLRAIL TO POST ENCONOMY HEAD CONNECTION BOLTS THAT MAY INTERFERE WITH BOTTOM OF RAILING POST BASE PLATES. COUNTERSINK EXISTING BULLRAIL AND REINSTALL BOLT WITH HEAD FLUSH TO TOP OF TIMBER. FIELD TREAT TIMBER WITH MASTIC PER SPECIFICATIONS.
- . FIELD VERIFY FINAL LAYOUT OF HANDRAIL POST SPACINGS AS REQUIRED TO FIT EXISTING BULLRAIL TO REMAIN AND TO TRANSITION AT EXISTING BULLRAIL LAP.

RAILING POST SCHEDULE				
TYPE	TAB & HOLE LOCATIONS	NOTES		
(1A)	RIGHT SIDE ONLY	CABLE PENETRATE RIGHT SIDE WITH TURNBUCKLES SEE DETAIL B/2.01		
(1B)	LEFT SIDE ONLY	CABLE PENETRATE LEFT SIDE WITH TURNBUCKLES SEE DETAIL B/2.01 SIM.		
2	BOTH SIDES	CABLE PENETRATE BOTH SIDE NO TURNBUCKLES, SEE DETAIL A/2.02		
3	BOTH SIDES	CABLE PENETRATE BOTH SIDES, TURNBUCKLES AS NOTED IN GUARD RAIL NOTES, SEE DETAILS B&C/S2.02		









REVISIONS						
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.	



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DESIGN:	MDS	CHECKED: JLD	SCALE:	S SHOWN
DRAWN:	WRB	APPROVED: JLD	^-	3 SHOWIN



#### PORT OF JUNEAU CRUISE SHIP BERTHS SAFETY IMPROVEMENTS CONTRACT NO. DH17-045

APPROACH DOCK

RAILING TO REMAIN

- MAX. 2" GAP BTWN. EXISTING RAILING POSTS, TYP. EACH END OF RAILING SYSTEM.

2.02

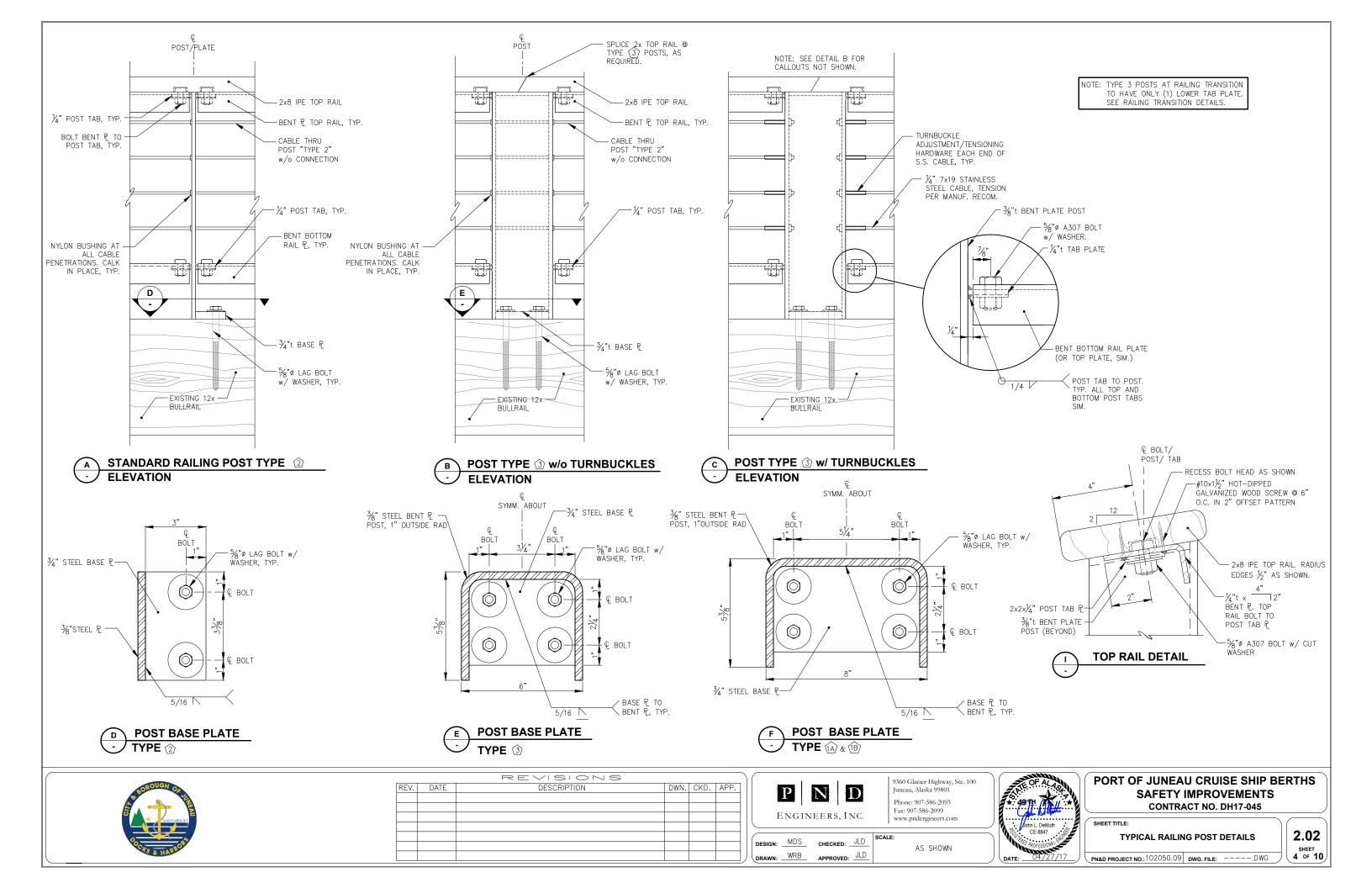
5%"ø LAG BOLT w/ WASHER, TYP.

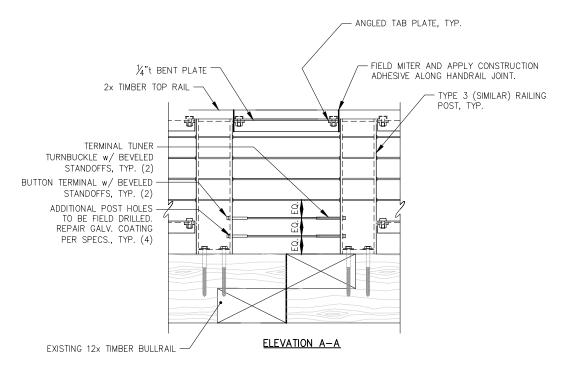
> EXISTING 12x12 TIMBER BULLRAIL

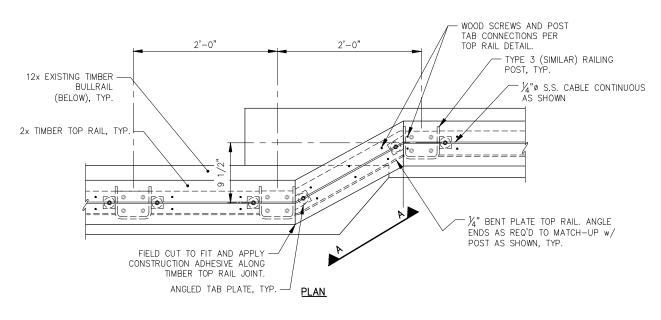
**RAILING ELEVATIONS AND DETAILS** 

2.01 3 OF 10

PN&D PROJECT NO.:102050.09 DWG. FILE: ----.DWG







# **RAILING TRANSITION AT BULLRAIL LAP - ELEVATION**

**RAILING TRANSITION AT BULLRAIL LAP - PLAN** 

NOTE: DETAILS NOT SHOWN SIMILAR TO TYPICAL RAILING.



REVISIONS							
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.		
	REV.	REV. DATE					



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DESIGN: PND CHECKED: JLD DRAWN: WRB/KLL APPROVED: JLD

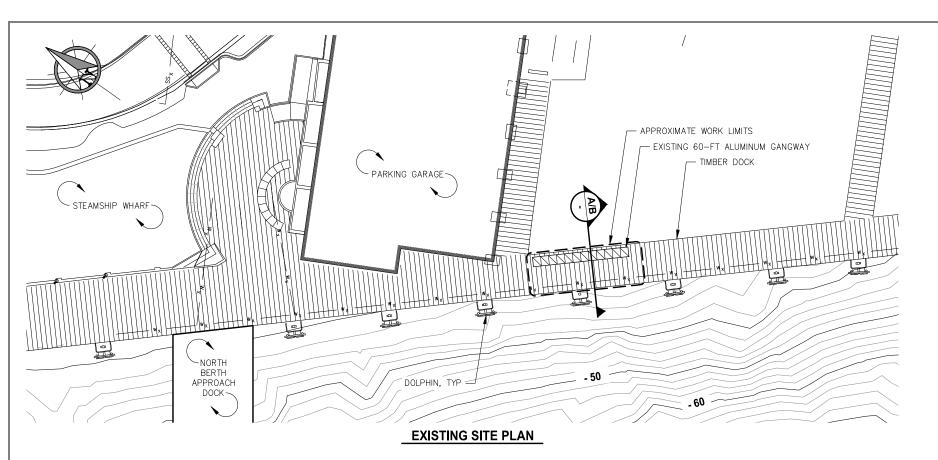


## PORT OF JUNEAU CRUISE SHIP BERTHS SAFETY IMPROVEMENTS CONTRACT NO. DH17-045

**RAILING DETAILS AT** TRANSITION

PN&D PROJECT NO.:102050.09 DWG. FILE:

2.03 SHEET 5 OF 10

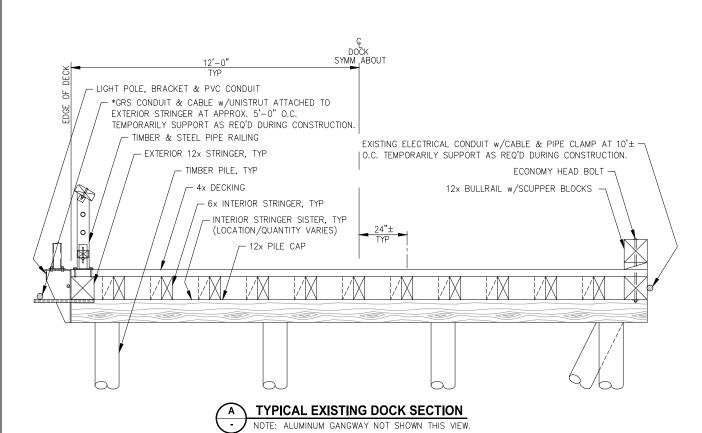


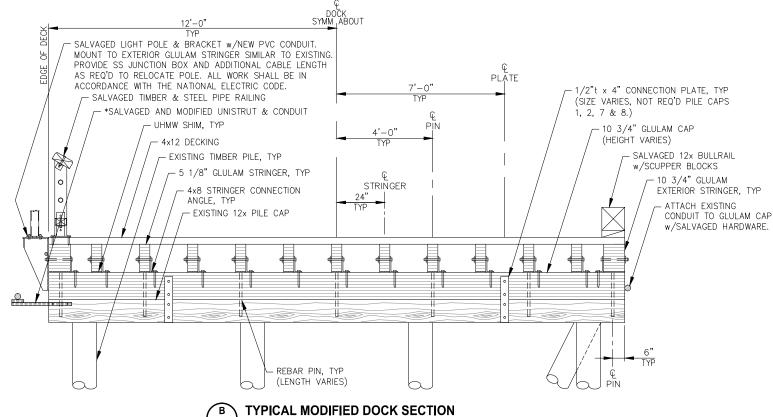
DOCK MODIFICATIONS SCOPE OF IMPROVEMENTS

- REMOVE & SALVAGE EXISTING 60-FT ALUMINUM GANGWAY INCLUDING TRANSITION PLATES AND MISC. COMPONENTS. DELIVER TO OWNER DESIGNATED LOCATION WITHIN 5 MILES OF THE PROJECT SITE.
- REMOVE & SALVAGE EXISTING RAILING, BULLRAIL & SCUPPER BLOCKS, LIGHT POLES, BRACKETS & CONDUIT AS REQUIRED. SUPPLY NEW HARDWARE FOR REINSTALLATION AS REQUIRED.
- REMOVE AND DISPOSE EXISTING DECKING AND STRINGERS IN THEIR ENTIRETY INCLUDING DRIFT PINS CONNECTING STRINGERS TO PILE CAPS. PLUG HOLES IN EXISTING PILE CAPS TO REMAIN WITH TREATED DOWELS.
- MINOR MODIFICATION OF EXISTING RAILING & BULLRAIL MAY BE REQUIRED FOR REINSTALLATION AND TO MATCH MODIFIED SLOPE OF DOCK.
- INSTALL NEW GLULAM CAPS, STRINGERS, DECKING, SHIMS, CONNECTION ANGLES AS
- CONTRACTOR SHALL VERIFY ALL FINAL ELEMENTS NOT SPECIFICALLY SHOWN AS REQUIRED TO PERFORM THE WORK.

MATERIALS SCHEDULE							
PILE CAP	GLULAM CAP HEIGHT	REBAR PIN LENGTH	UHMW SHIM & HEIGHT				
1	N/A	N/A	N/A				
2	6"	14.5"	1.125"				
3	13.5"	22"	.625"				
4	20"	28.5"	.75"				
5	15"	23.5"	.625"				
6	9"	17.5"	1.375"				
7	4.5"	13"	.75"				
8	N/A	N/A	N/A				

NOTE: REMOVE EXISTING UNISTRUT PIECES AND ATTACH TO EXISTING PILE CAPS AT 10'± O.C. AS SHOWN. FIELD CUT UNISTRUT PIECES NOT BEING REINSTALLED TO 6"± LONG AND FIELD WELD TO UNISTRUT PIECE ATTACHED TO PILE CAP PERPENDICULAR TO CONDUIT ALIGNMENT. REINSTALL EXISTING PIPE CLAMPS AND HARDWARE.







REVISIONS REV. DATE DESCRIPTION DWN. CKD. APP







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ENGINEERS, INC. DESIGN: BMI CHECKED: JLD DRAWN: BMI



### PORT OF JUNEAU CRUISE SHIP BERTHS SAFETY IMPROVEMENTS CONTRACT NO. DH17-045

ADA RAMP DOCK MODIFICATIONS PLAN AND SECTIONS

3.01 6 of 10

