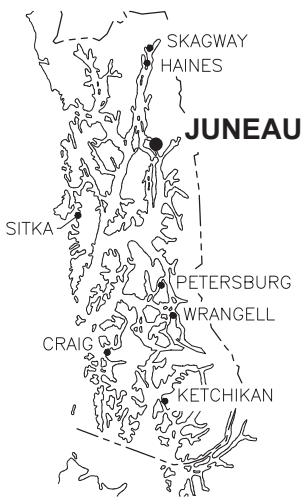


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203



LOCATION MAP



SOUTHEAST ALASKA

THIS
PROJECT



VICINITY MAP

AERIAL PHOTO
FROM AEROMAP

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 LOW WATER (MLW)	+1.60
MEAN LOWER LOW WATER (MLLW)	0.0
LOWEST OBSERVED WATER LEVEL	-6.12

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

DRAWING INDEX

DWG. NO.	TITLE
GENERAL	
G101	TITLE SHEET, VICINITY MAP AND DRAWING INDEX
G102	LEGEND, ABBREVIATIONS AND GENERAL NOTES
G103	EXISTING CONDITIONS AND SURVEY CONTROL
G104	DEMOLITION PLAN
G105	DEMOLITION DETAILS
G106	OVERALL SITE PLAN WITH GRADING
G107	GENERAL SECTIONS
G108	GENERAL SECTIONS
STRUCTURAL	
S101	DECK AND FRAMING PLAN
S102	PILE PLAN AND SCHEDULE
S103	PILE DETAILS
S104	PILE CAP DETAILS
S105	PILE CAP DETAILS
S106	TIMBER DOCK SECTION AND DETAILS
S107	TIMBER DOCK TRANSITION TO EXISTING DOCK
S108	EXISTING MOORING DOLPHIN MODIFICATIONS
S109	DOCK CONNECTION DETAILS
S110	CONCRETE WALL DETAILS
S111	CONCRETE DECK PANEL DETAILS
S112	CONCRETE DECK PANEL DETAILS
S113	CABLE STRAND RAILING ELEVATION
S114	CABLE STRAND RAILING DETAILS
S115	CABLE STRAND RAILING DETAILS
S116	CABLE STRAND RAILING DETAILS
S117	GRADING AND DRAINAGE DETAILS
ELECTRICAL	
E1	SITE PLAN - NORTH BERTH
E2	EXISTING SITE PLAN ELECTRICAL
E3	NEW SITE PLAN ELECTRICAL
E4	SINGLE LINE DIAGRAM - NORTH BERTH DISTRIBUTION
E5	DETAILS



REVISIONS					
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CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
TITLE SHEET, VICINITY MAP
AND DRAWING INDEX

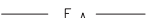
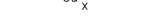
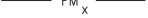
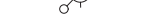
PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

G101

ABBREVIATIONS

A		H		R	
@	AT	H&T	HUB & TACK	RAD	RADIUS
AC	ASBESTOS CEMENT PIPE	HD	HEAVY DUTY	RE	RIM ELEVATION
ACP	ASPHALT CONCRETE PAVEMENT	HDG	HOT-DIPPED GALVANIZED	REF	REFERENCE
ADD	ADDITIVE	HDPE	HIGH DENSITY POLYETHYLENE	REINF	REINFORCEMENT
ADJ	ADJUSTABLE	HORIZ	HORIZONTAL	REQD	REQUIRED
	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	HSE	HOUSE	RET	RETAINING
AKDOT&PF		HT	HEIGHT	RO	ROUGH OPENING
		HWY.	HIGHWAY	ROW	RIGHT OF WAY
		I		S	
ALT	ALTERNATE	IAW	IN ACCORDANCE WITH	S	SOUTH
APPROX.	APPROXIMATE	ID	INSIDE DIAMETER	SCHED	SCHEDULE
ATS	ALASKA TIDELANDS SURVEY	IE	INVERT ELEVATION	SD	STORM DRAIN
AWS	AMERICAN WELDING SOCIETY	IN	INCH	SDI	STORM DRAIN INLET STRUCTURE
B		IP	IRON PIPE	SDO	STORM DRAIN OUTLET STRUCTURE
BLDG	BUILDING	INV	INVERT	SDR	STANDARD DIMENSION RATIO
BTM, BOT	BOTTOM	J		SF	SQUARE FOOT
C		JB	JUNCTION BOX	SHLDR	SHOULDER
C&G	CURB & GUTTER	L		SI	STREET INTERSECTION
CB	CATCH BASIN	LBS	POUNDS	SPEC	SPECIFICATION (S)
CBJ	CITY AND BOROUGH OF JUNEAU	LF	LINEAR FEET	SQ	SQUARE
CIP	CAST-IN-PLACE	LL	LIVE LOAD	SRB	SHOT ROCK BORROW
CJ	CONTROL JOINT	LOC	LOCATION	SSC	SANITARY SEWER CONNECTION
☪	CENTER LINE	LS	LUMP SUM	SS	STAINLESS STEEL, SANITARY SEWER
CLR	CLEAR	M		SDMH	STORM DRAIN MANHOLE
CMP	CORRUGATED METAL PIPE	MAX	MAXIMUM	SSMH	SANITARY SEWER MANHOLE
CONC.	CONCRETE	ME	MATCH EXISTING	STA	STATION
CP	COMPLETE PENETRATION	MECH	MECHANICAL	STD	STANDARD
CPP	CORRUGATED POLYETHYLENE PIPE	MFR	MANUFACTURE (R)	STL	STEEL
COR	CORNER	MH	MANHOLE	STRG	STRONG
CSC	COUNTERSINK	MJ	MECHANICAL JOINT	SW	SIDEWALK
CY	CUBIC YARD	MIN	MINIMUM	SWR	SEWER
D		MLLW	MEAN LOWER LOW WATER	SY	SQUARE YARD
D/DIA	DIAMETER	MSE	MECHANICALLY STABILIZED EARTH	SYM	SYMMETRICAL
DBL	DOUBLE	MTL	MATERIAL (S)	T	
DIP	DUCTILE IRON PIPE	N		t.	THICK
DIM	DIMENSION	N	NORTH	T&B	TOP AND BOTTOM
DN	DOWN	NFS	NON FROST SUSCEPTIBLE	T&G	TONGUE AND GROOVE
DTL	DETAIL	NO	NUMBER	TBC	TOP BACK OF CURB
E		NTS	NOT TO SCALE	TBD	TO BE DETERMINED
E	EAST	O		TD	TRENCH DRAIN
EA.	EACH	OC	ON CENTER	TEL	TELEPHONE
EG	EXISTING GROUND	OD	OUTSIDE DIAMETER	TEMP	TEMPERATURE, TEMPORARY
EJ	EXPANSION JOINT	OHE	OVERHEAD ELECTRICAL	Typ	TYPICAL
EL/ELEV	ELEVATION	OWS	OIL-WATER SEPARATOR	U	
EQ	EQUAL	P		UON	UNLESS OTHERWISE NOTED
EQUIP	EQUIPMENT	P	PIPE	UPC	UNIFORM PLUMBING CODE
EXIST	EXISTING	PC	POINT OF CURVATURE, PIECE	USCG	UNITED STATES COAST GUARD
F		PCC	PRECAST CONCRETE	V	
FC	FACE OF CURB	PED	PEDESTAL	VB	VALVE BOX
FD	FLOOR DRAIN	PI	POINT OF INTERSECTION	VERT	VERTICAL
FG	FINISH GRADE	PL	PROPERTY LINE, PLATE	W	
FH	FIRE HYDRANT, FLAT HEAD	PRV	PRESSURE REDUCING VALVE	W	WEST
FIN	FINISH (ED)	PSI	POUND PER SQUARE INCH	w/	WITH
FM	FORCE MAIN SEWER	PT	POINT, PRESSURE TREATED,	WD	WOOD
FT	FOOT		POINT OF TANGENCY	WL	WATERLINE
FTG	FOOTING	PVC	POINT OF VERTICAL CURVATURE,	WV	WATER VALVE
FL	FLOWLINE		POLY VINYL CHLORIDE	W/O	WITHOUT
G		Q		<PT	ANGLE POINT
GAL	GALLON	QTY	QUANTITY		
GALV	GALVANIZED				
GB	GRADE BREAK				
GV	GATE VALVE				

LEGEND

EXISTING	THIS PROJECT	
		TELEPHONE PEDESTAL
		TELEVISION PEDESTAL
		ELECTRICAL PEDESTAL
		FENCE
		FUEL LINE (ABANDONED)
		FUEL LINE
		ELECTRICAL (ABANDONED)
		ELECTRICAL (UNDERGROUND)
		ELECTRICAL (OVERHEAD)
		WATER
		SANITARY SEWER
		RIGHT-OF-WAY
		COMMUNICATION (CABLE/TEL)
		STORM DRAIN
		FORCE MAIN
		FOUNDATION DRAIN PIPE
		PROPERTY LINE
		GUY WIRE ANCHOR
		GUARDRAIL
		BOLLARD
		CURB & GUTTER
		ELECTRICAL TRANSFORMER
		ELECTRICAL VAULT
		ELECTRICAL HANDHOLE
		FIRE HYDRANT
		LAYOUT POINT
		LIGHT POLE
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
		STORM DRAIN INLET
		SIGN
		WATER VALVE
		UTILITY POLE
		SECTION OR DETAIL CALLOUT
		LOCATION OF DETAIL OR REFERENCE DRAWING

GENERAL NOTES

1. PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
2. CBJ ENGINEERING STANDARD DETAILS BOOK DATED AUGUST, 2011 IS MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE. STANDARD DETAILS SHALL ONLY BE UTILIZED AS SPECIFICALLY REFERENCED IN THE DRAWINGS WITH MODIFICATIONS SPECIFIED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE, LOCAL, STATE AND FEDERAL CODES, PERMITS AND SAFETY REQUIREMENTS.
4. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES NOT SHOWN IN THESE DRAWINGS MAY BE PRESENT. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AS NECESSARY, PRIOR TO BEGINNING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS. CONTACT LOCAL UTILITY COMPANIES PRIOR TO ANY/ ALL EXCAVATIONS AT THE FOLLOWING TELEPHONE NUMBERS:

DIAL BEFORE YOU DIG!
586-1333

**UNDERGROUND POWER, TELEPHONE, T.V.,
COMMUNICATIONS, WATER AND WASTEWATER LINES
ARE IN THE AREA. UTILITIES SHOWN HERE DO NOT
SUBSTITUTE FOR FIELD LOCATES.**

5. GRADING IS SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS, AT NO ADDITIONAL COST.
6. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED BOROUGH DEPARTMENTS AND LOCAL UTILITY COMPANIES DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL NOT DISRUPT UTILITY SERVICES EXCEPT AS REQUIRED TO COMPLETE THE RECONFIGURATION OF THOSE SERVICES AS SHOWN IN THE PLANS. COORDINATE ANY DISRUPTIONS WITH OWNER A MINIMUM OF 48 HOURS IN ADVANCE.



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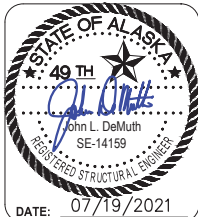


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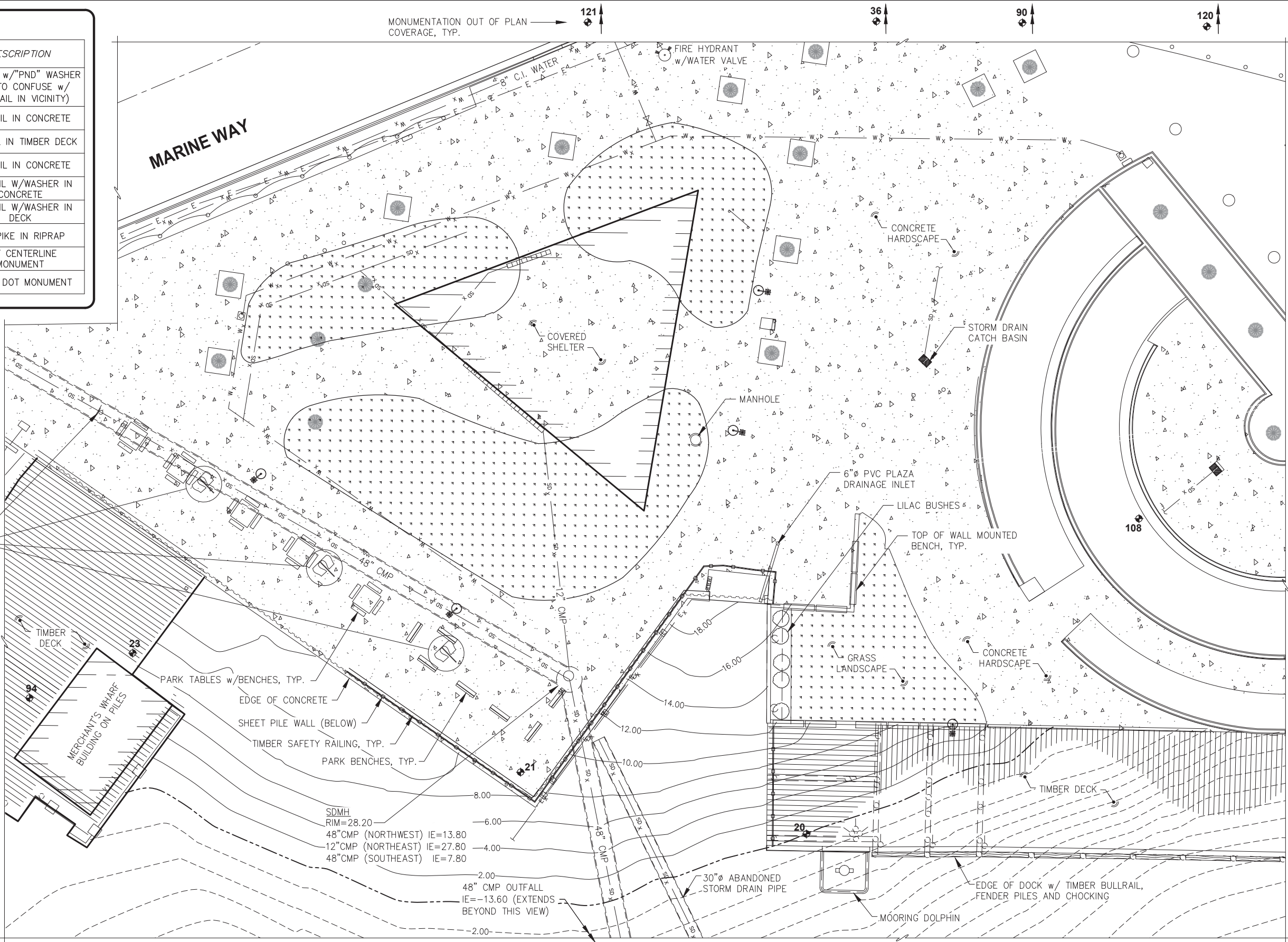
CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
**LEGEND, ABBREVIATIONS AND
GENERAL NOTES**

G102

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

SURVEY CONTROL TABLE				
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
20	479102.0310'	531332.7223'	30.80	MAGNAIL w/"PND" WASHER (NOT TO CONFUSE w/ DOT NAIL IN VICINITY)
21	479149.4158'	531301.5003'	27.98	MAGNAIL IN CONCRETE
23	479217.8571'	531263.9494'	27.73	MAGNAIL IN TIMBER DECK
36	479211.4549'	531455.2561'	28.20	MAGNAIL IN CONCRETE
90	479181.2690'	531485.5685'	27.25	MAGNAIL W/WASHER IN CONCRETE
94	479226.0373'	531242.7667'	27.86	MAGNAIL W/WASHER IN DECK
108	479099.0824'	531421.6149'	11.31	8" SPIKE IN RIPRAP
120	479183.2193'	531521.8351'	26.68	DOT CENTERLINE MONUMENT
121	479261.0547'	531429.1469'	27.16	FOUND DOT MONUMENT



- NOTES:
- THIS SURVEY WAS CONDUCTED IN OCTOBER AND DECEMBER 2011.
 - PROPERTY LINE LOCATIONS AND RIGHT-OF-WAY (ROW) ARE SHOWN APPROXIMATE AND ARE BASED ON RECORD PLATS AND FOUND MONUMENTS. SEE CBJ PLAT 340 "TIDELANDS ADDITION TO THE CITY OF JUNEAU". SEE ADOT&PF RIGHT OF WAY ALASKA MAP PROJECT F-093-1(1) AND F-093-2(5).
 - VERTICAL CONTROL ESTABLISHED ON NAVD 88 VERTICAL DATUM, REFERENCED TO THE NOAA TIDAL BENCHMARK 945 2210 TIDAL 9. THE BENCH MARK IS A DISK SET VERTICALLY IN THE SOUTH CORNER OF THE GASTINEAU APARTMENTS BUILDING AT 127 SOUTH FRANKLIN STREET. BENCHMARK EL=32.185' MLLW.
 - ALL EXISTING UTILITIES ARE SHOWN FROM SURVEYED INFORMATION, SURVEYED UTILITY LOCATES, AS-BUILT RECORDS PROVIDED BY THE CITY AND BOROUGH OF JUNEAU AND THE MERCHANT'S WHARF MANAGEMENT. FIELD VERIFY ALL EXISTING UTILITIES AND EXISTING CONDITIONS
 - ALL TOPOGRAPHICAL INFORMATION DISPLAYED WITHIN THE RIGHT-OF-WAY, UNLESS OTHERWISE SPECIFIED, IS SHOWN AS PROVIDED BY THE ALASKA DEPARTMENT OF HIGHWAYS AND PUBLIC FACILITIES.



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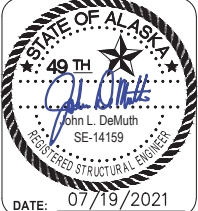
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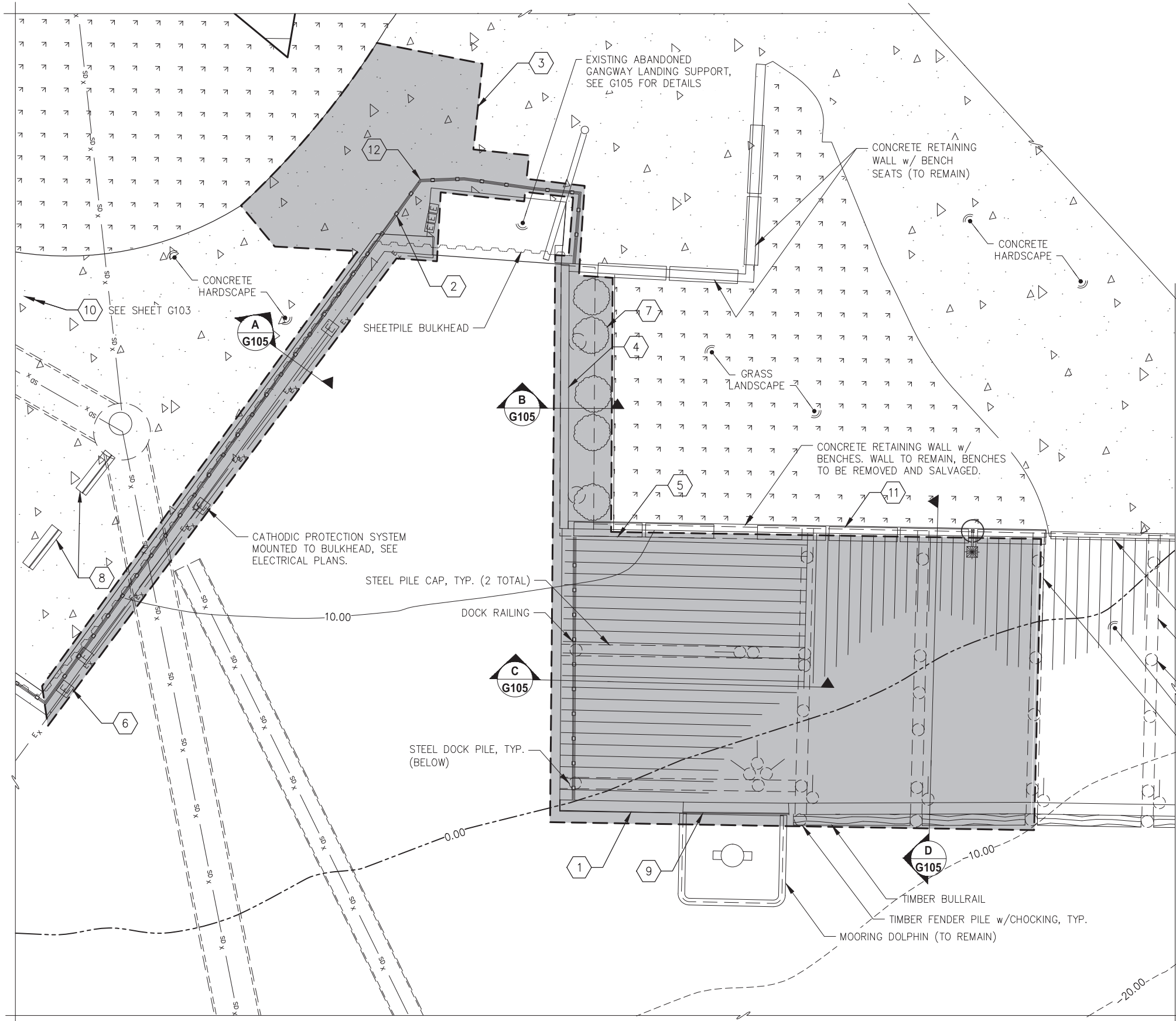
CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
EXISTING CONDITIONS
AND SURVEY CONTROL

G103

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250



DEMOLITION NOTES	
DESIGNATION	DESCRIPTION
①	DEMOLISH AND DISPOSE EXISTING TIMBER DOCK TO LIMITS SHOWN; ITEMS TO BE DEMOLISHED INCLUDE STEEL AND TIMBER PILES, STEEL AND TIMBER PILE CAPS, TIMBER AND GLULAM STRINGERS, TIMBER DECKING AND BULLRAIL, RAILING SYSTEM, FENDER PILES AND FENDER SYSTEM CHOCKING.
②	DEMOLISH AND DISPOSE EXISTING TIMBER RAILING ALONG SOUTH EDGE OF BULKHEAD AND OPPOSITE SIDE OF GANGWAY ABUTMENT OPENING.
③	DEMOLISH AND DISPOSE EXISTING DAMAGED SIDEWALK AREA ADJACENT TO GANGWAY ABUTMENT OPENING. SEE STORM DRAIN DETAILS FOR DEMOLITION LIMITS.
④	DEMOLISH AND DISPOSE PARTIAL EXISTING RETAINING WALL ALONG NORTH EDGE OF EXISTING LANDSCAPE AREA.
⑤	DEMOLISH AND DISPOSE EXISTING CONCRETE LEDGER UNDER NORTH END OF EXISTING TIMBER DOCK TO EXTENT NECESSARY TO AVOID CONFLICT w/ NEW PILE CAPS, STRINGERS AND DECK. SEE SECTION D/G105.
⑥	REMOVE, SALVAGE AND RELOCATE/INSTALL PORTIONS OF EXISTING CATHODIC PROTECTION SYSTEM IDENTIFIED IN ELECTRICAL DEMOLITION SUMMARY.
⑦	REMOVE AND SALVAGE LILAC BUSHES. (COORDINATE w/ CBJ)
⑧	REMOVE AND SALVAGE (2) PARK BENCHES. (DELIVER TO CBJ DOCKS AND HARBORS)
⑨	REMOVE AND DISPOSE TRANSITION PLATE AT DOLPHIN WELDMENT.
⑩	REMOVE AND SALVAGE PARK BANNER POLES. (DELIVER TO CBJ DOCKS AND HARBORS) SEE SHEET G103
⑪	REMOVE AND SALVAGE TOP OF WALL MOUNTED BENCHES AND HARDWARE (DELIVER TO CBJ DOCKS AND HARBORS). GROUT HOLES IN TOP OF WALL FLUSH.
⑫	REMOVE AND SALVAGE DOG WASTE DISPENSER (DELIVER TO CBJ PARKS AND REC).

PILE DEMOLITION SCHEDULE ** SEE NOTE				
LOCATION	QUANTITY	TYPE	DIAMETER	NOTES
TIMBER DOCK	3 EA.	STEEL	12¾"	VERTICAL AND BATTER PILES
	5 EA.	STEEL	16"	VERTICAL AND BATTER PILES
	15 EA.	TIMBER	16"	VERTICAL, BATTER AND FENDER PILES

****NOTE:**
TO COMPLY WITH PROJECT PERMIT REQUIREMENTS DEMOLITION/REMOVAL OF ALL PILES IDENTIFIED HEREIN SHALL BE ACCOMPLISHED UTILIZING ONE OF THE FOLLOWING MEANS/METHODS:

- DURING LOW TIDE SUCH THAT PILE IS OUT OF THE WATER
- DEAD-PULLED WITHOUT USE OF VIBRATORY HAMMER
- CUTOFF AT MUDLINE



REVISIONS				
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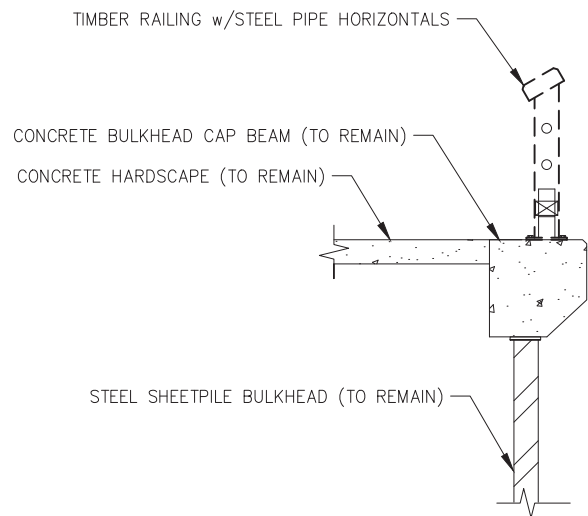


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MARINE PARK DECKOVER
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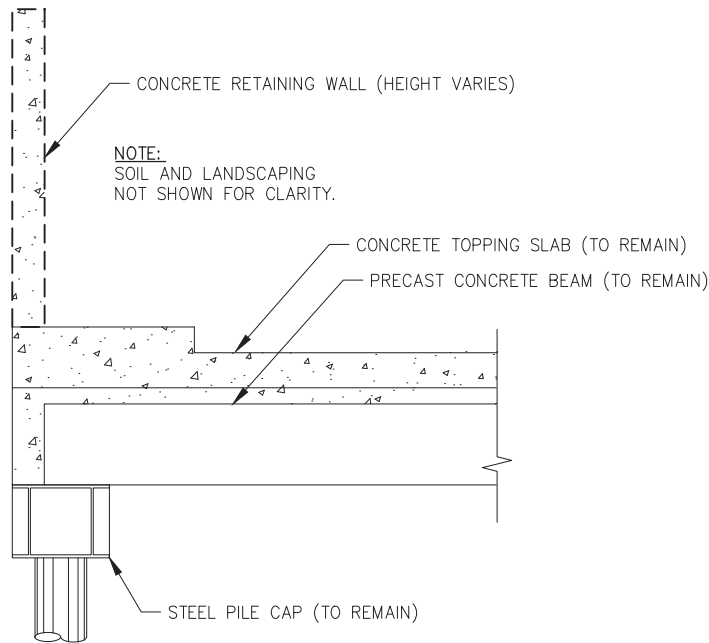
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DEMOLITION PLAN

G104

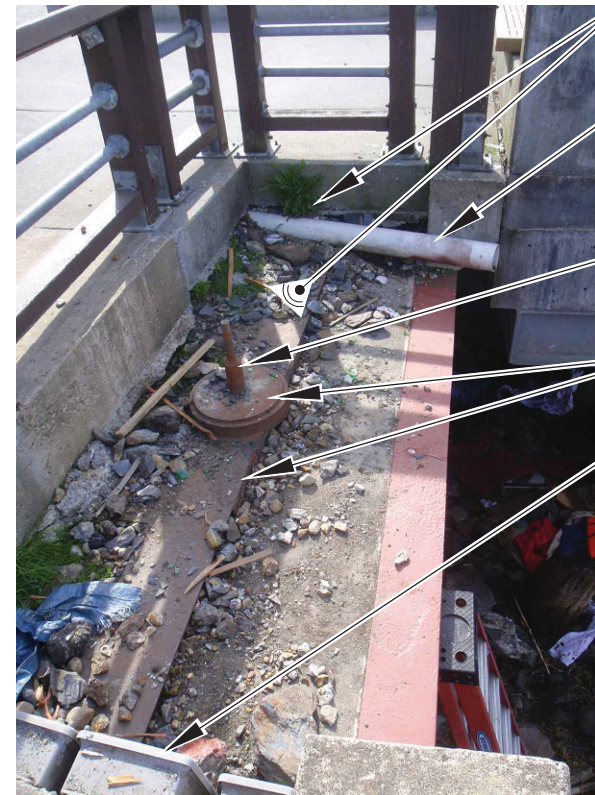
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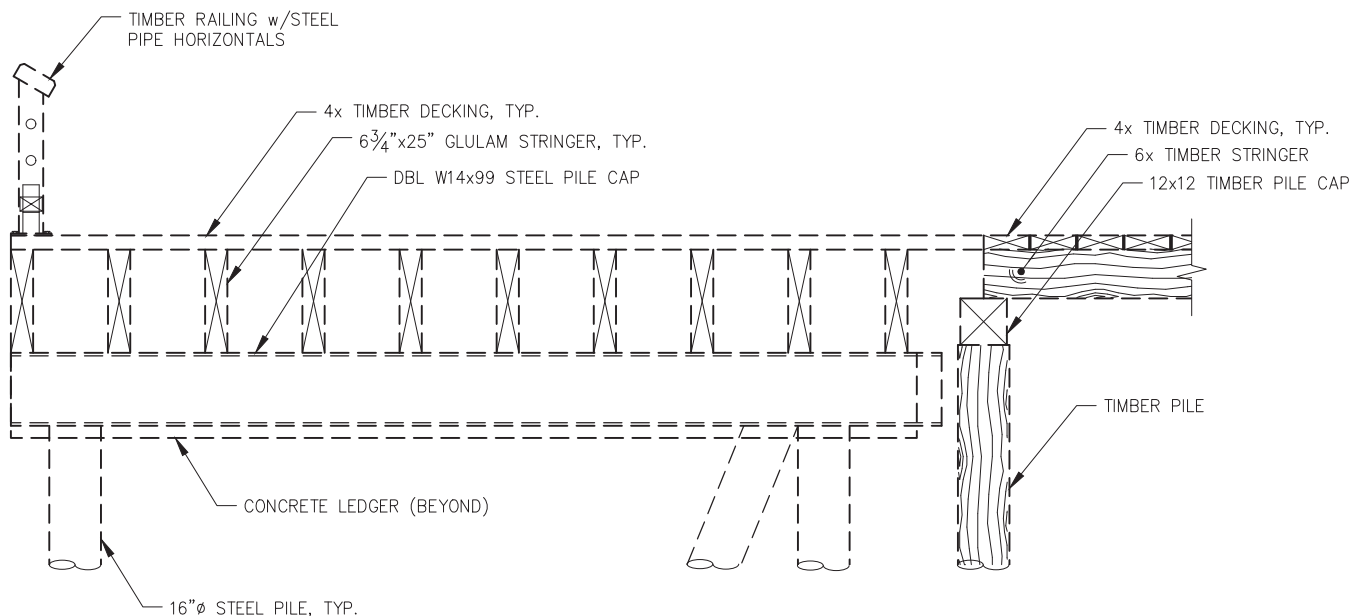
A
G104 SECTION AT RAILING



B
G104 SECTION AT RETAINING WALL

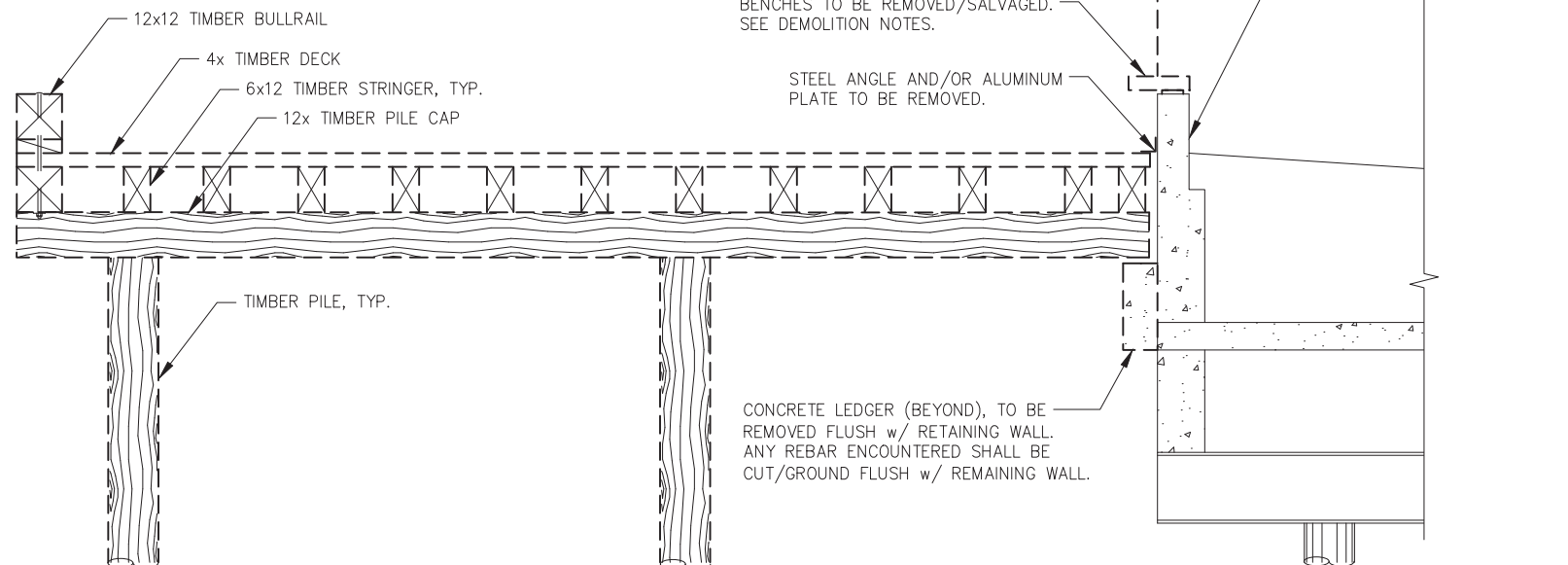


E
G104 EXISTING ABANDONED GANGWAY SUPPORT

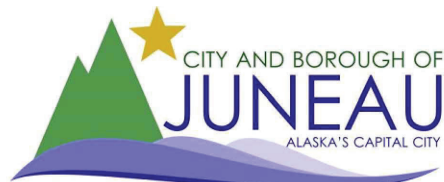


C
G104 SECTION ALONG TIMBER DOCK

LEGEND:
- - - - - = DEMOLISH AND DISPOSE, TYP.



D
G104 SECTION THRU TIMBER DOCK



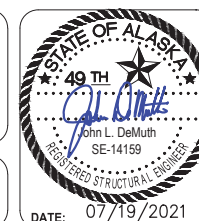
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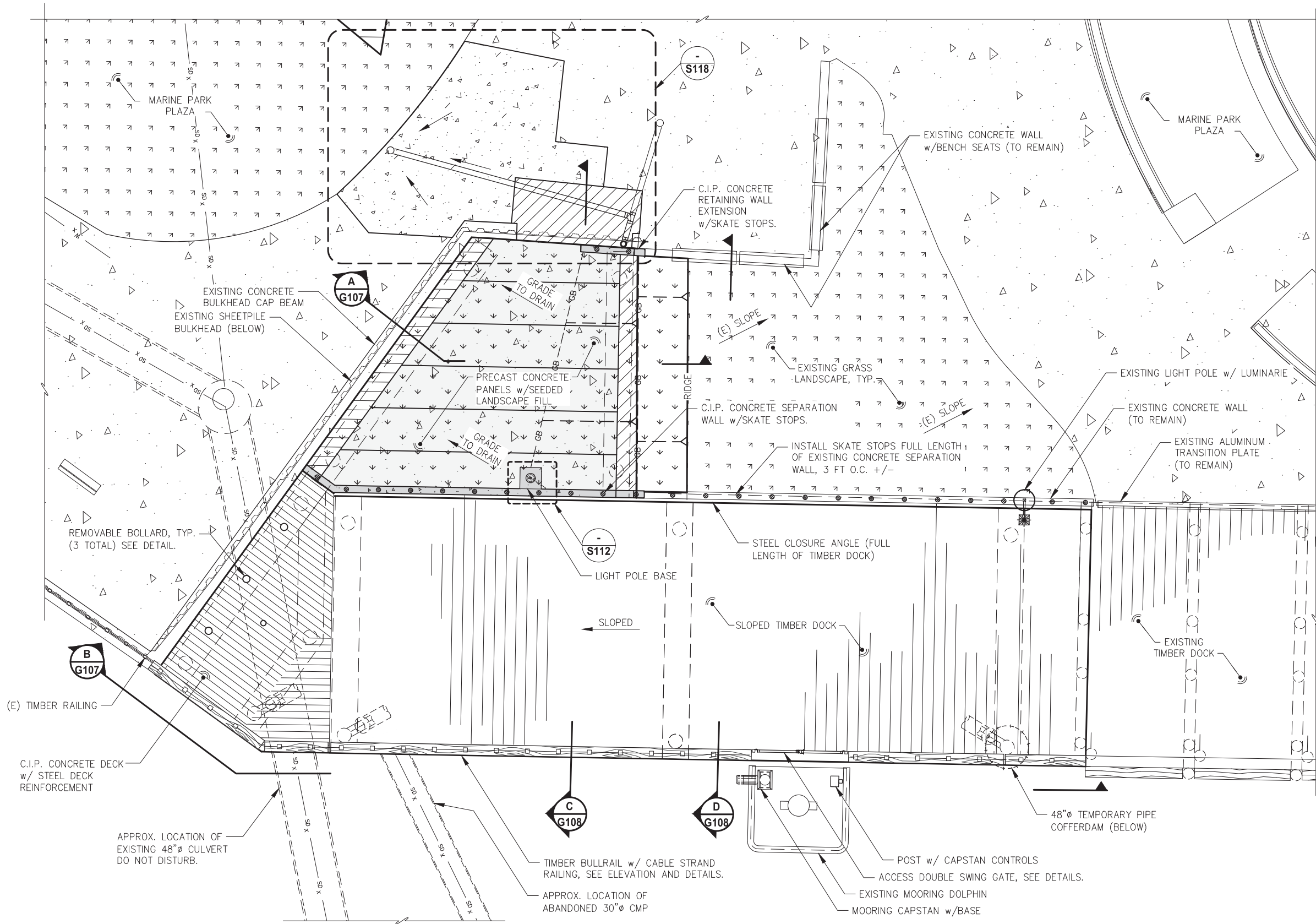


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
DEMOLITION DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

G105



GENERAL NOTES:

- STAGING AREA AVAILABLE TO THE CONTRACTOR SHALL BE LIMITED TO APPROX. 5,000 SF WITHIN THE "BRICKYARD" LOT. THE EXACT LOCATION SHALL BE COORDINATED WITH THE CBJ. A PRE-CONSTRUCTION CONDITION ASSESSMENT WILL BE MADE OF THE DESIGNATED STAGING AREA AND AREAS PERIPHERAL TO THE PROJECT. ANY DAMAGE THAT OCCURS AS A RESULT OF CONTRACTOR ACTIVITY SHALL BE REPAIRED BY THE CONTRACTOR TO THE CBJ'S SATISFACTION AND AT NO ADDITIONAL COST TO THE CBJ.
- HARDSCAPE AND LANDSCAPE SURROUNDING THE PROJECT AREA ARE SUSCEPTIBLE TO DAMAGE AND ARE NOT RATED FOR LARGE EQUIPMENT AND HEAVY WHEEL LOADS. USE OF A LARGE TRUCK CRANE POSITIONED ON SHORE TO CONDUCT PROJECT WORK WILL NOT BE ALLOWED.
- CONTRACTOR SHALL PERFORM THEIR OWN ASSESSMENT AND CONFIRM ACCESSIBILITY TO PROJECT SITE FOR ALL EQUIPMENT INTENDED TO BE USED ON THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO ADEQUATE WATER DEPTH AT ALL TIDE LEVELS AND LOAD CAPACITY OF ADJACENT HARDSCAPE AND DOCK STRUCTURES. CONTRACTOR'S WORK PLAN SHALL BE DEVELOPED ACCORDINGLY.



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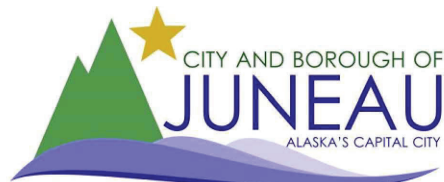
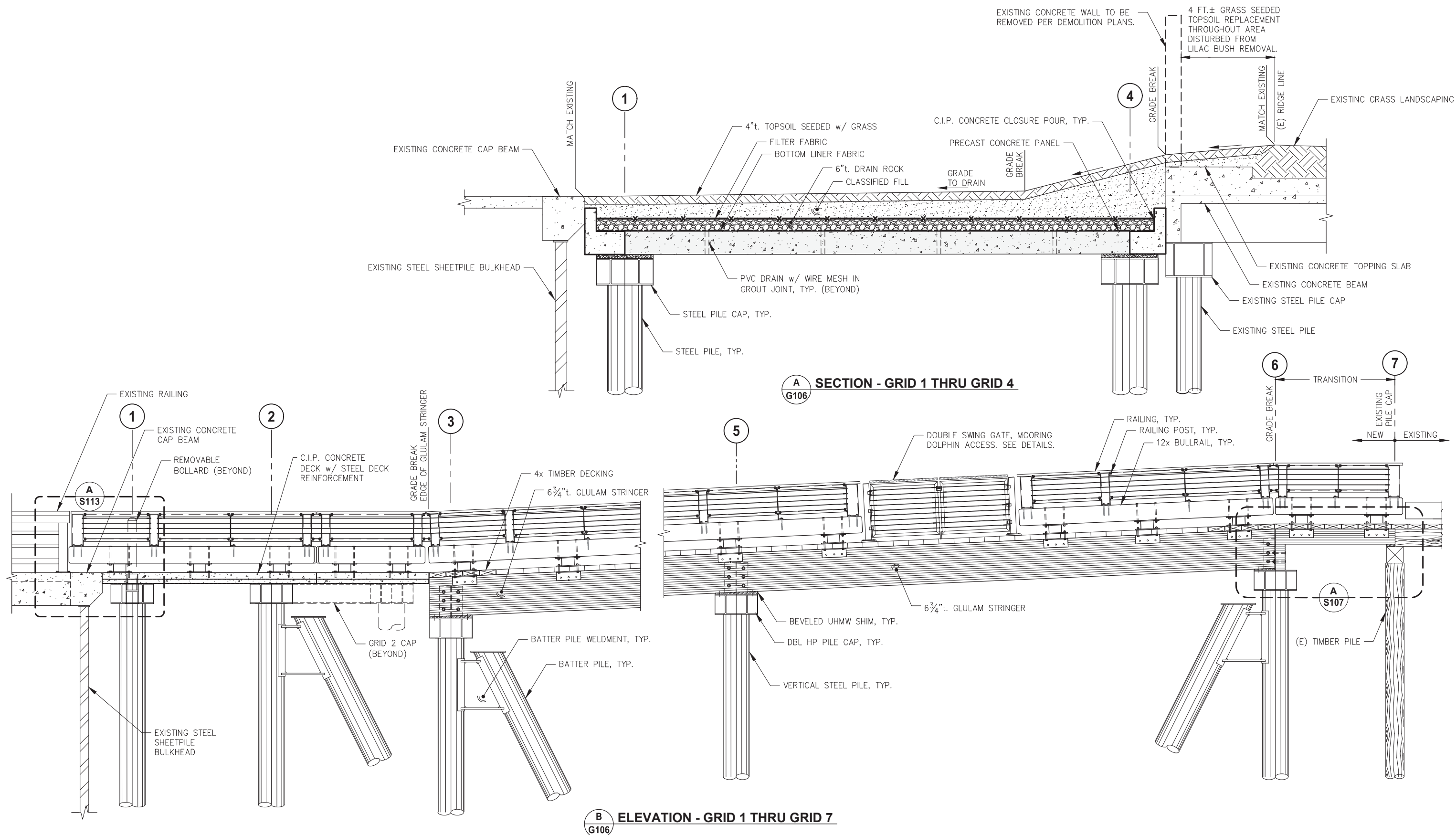


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
OVERALL SITE PLAN WITH GRADING

G106

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250



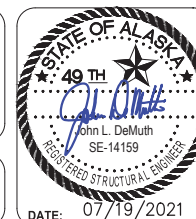
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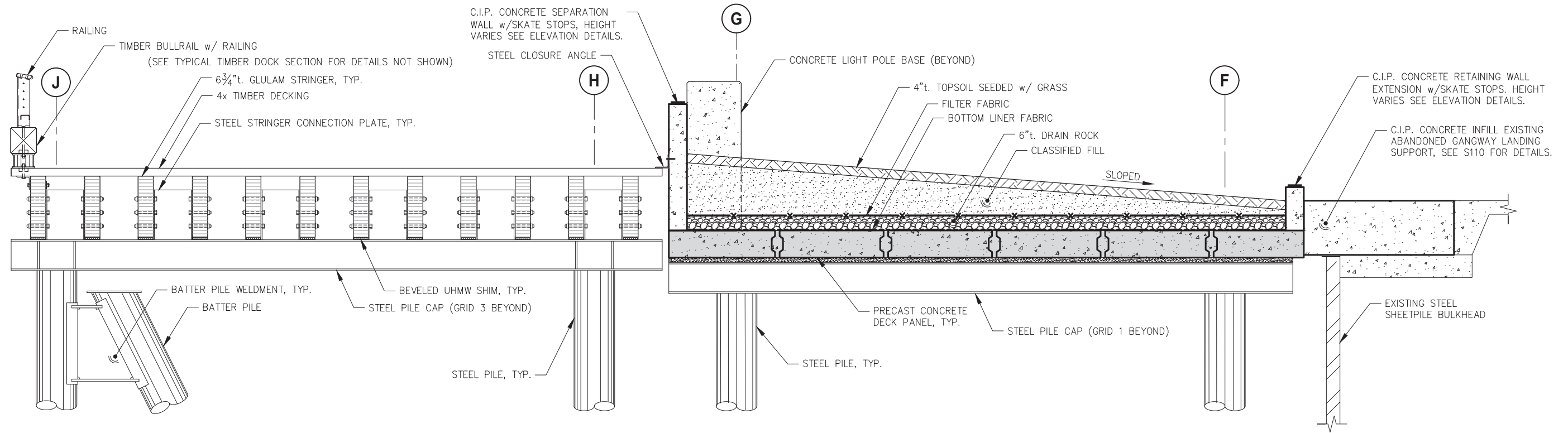


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

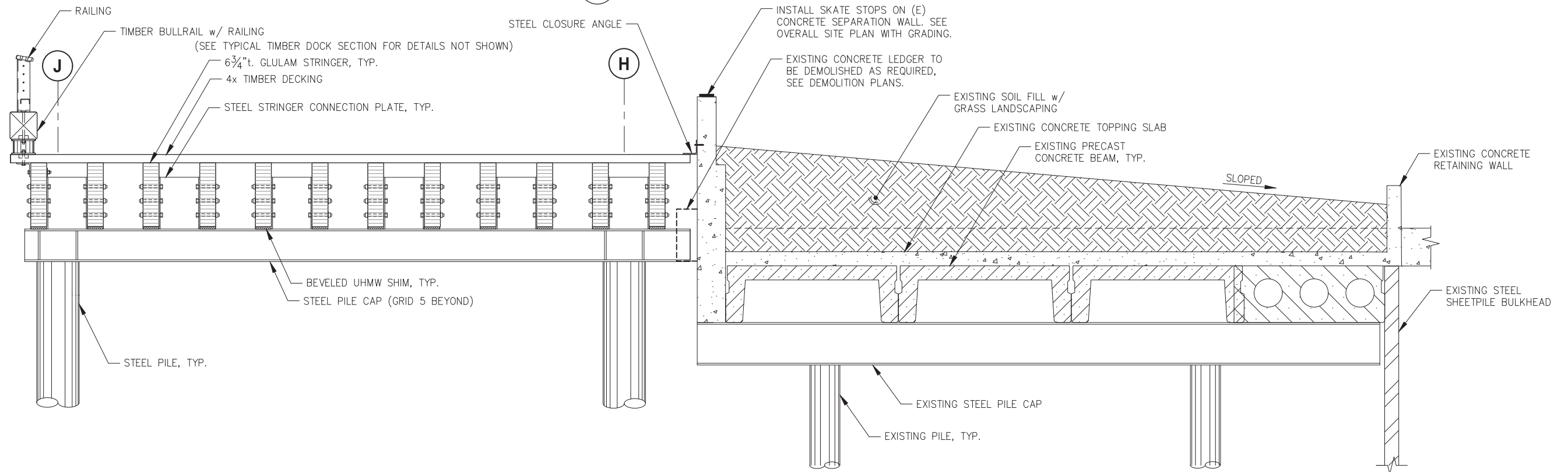
SHEET TITLE:
GENERAL SECTIONS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

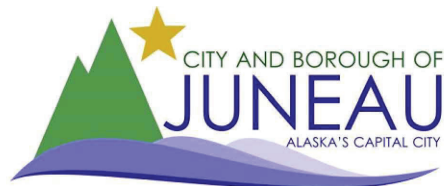
G107



C
G106 SECTION - TIMBER DOCK AT NEW CONC. PANELS



D
G106 SECTION - TIMBER DOCK AT EXISTING PARK



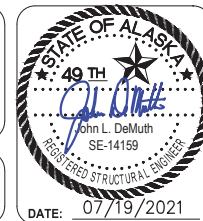
REVISIONS					
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SCALE:
AS SHOWN

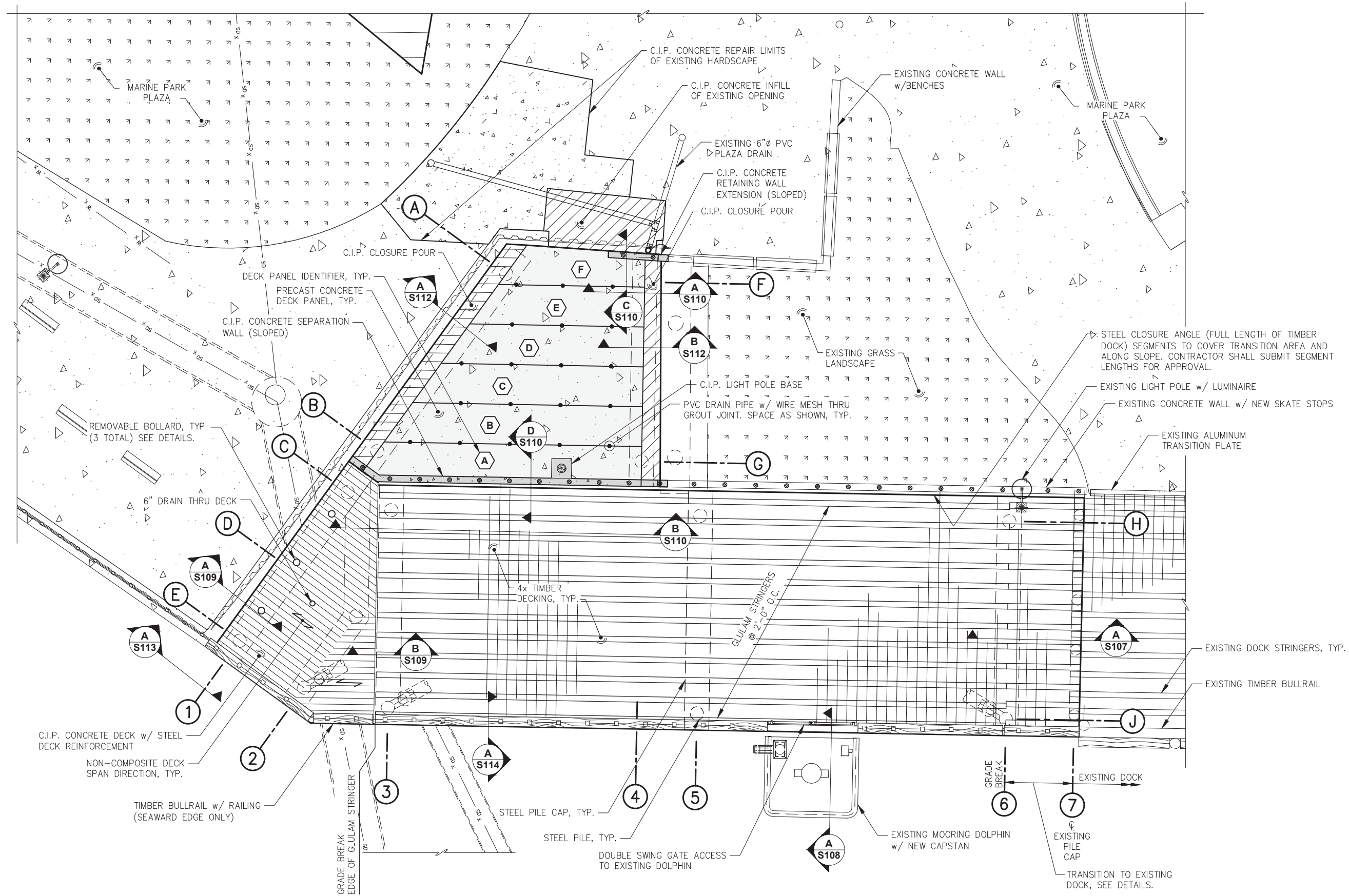


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
GENERAL SECTIONS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

G108



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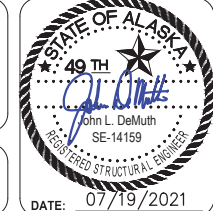
9360 Glacier Highway Ste 100
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DESIGN: MDH
DRAWN: WRB

CHECKED: JLD
APPROVED: JLD

SCALE: SCALE IN FEET
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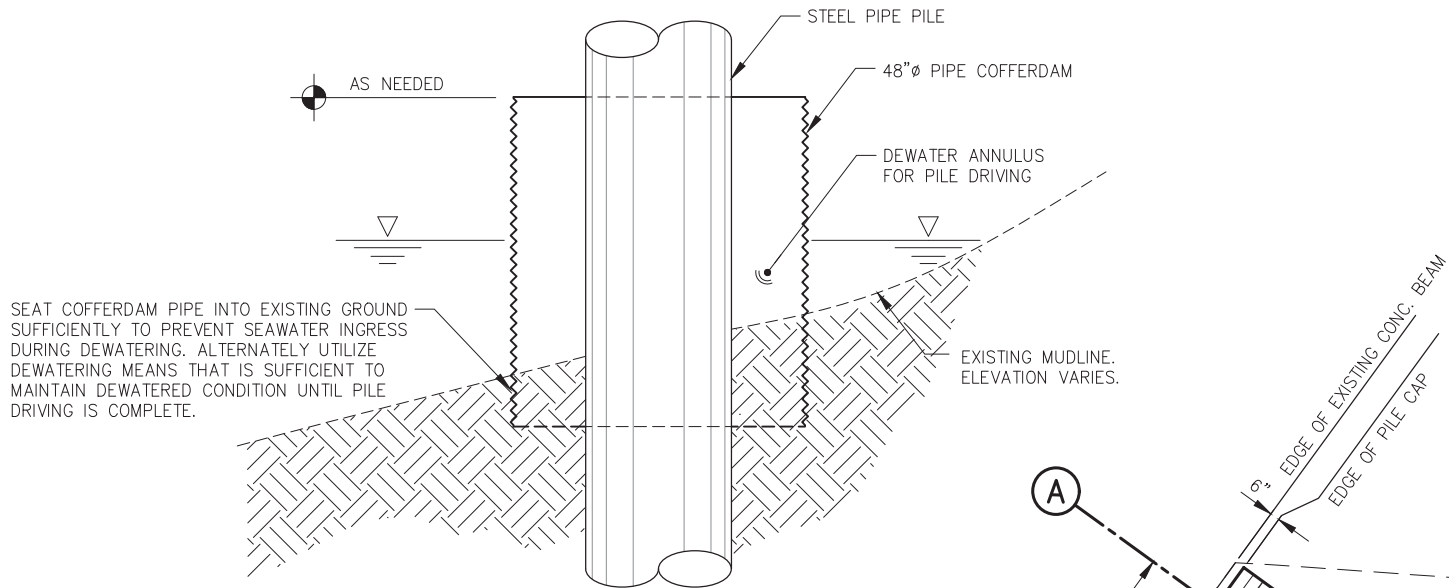
CITY & BOROUGH OF JUNEAU, ALASKA
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CBJ CONTRACT NO. BE21-203

SHEET TITLE:
DECK AND FRAMING PLAN

S101

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250

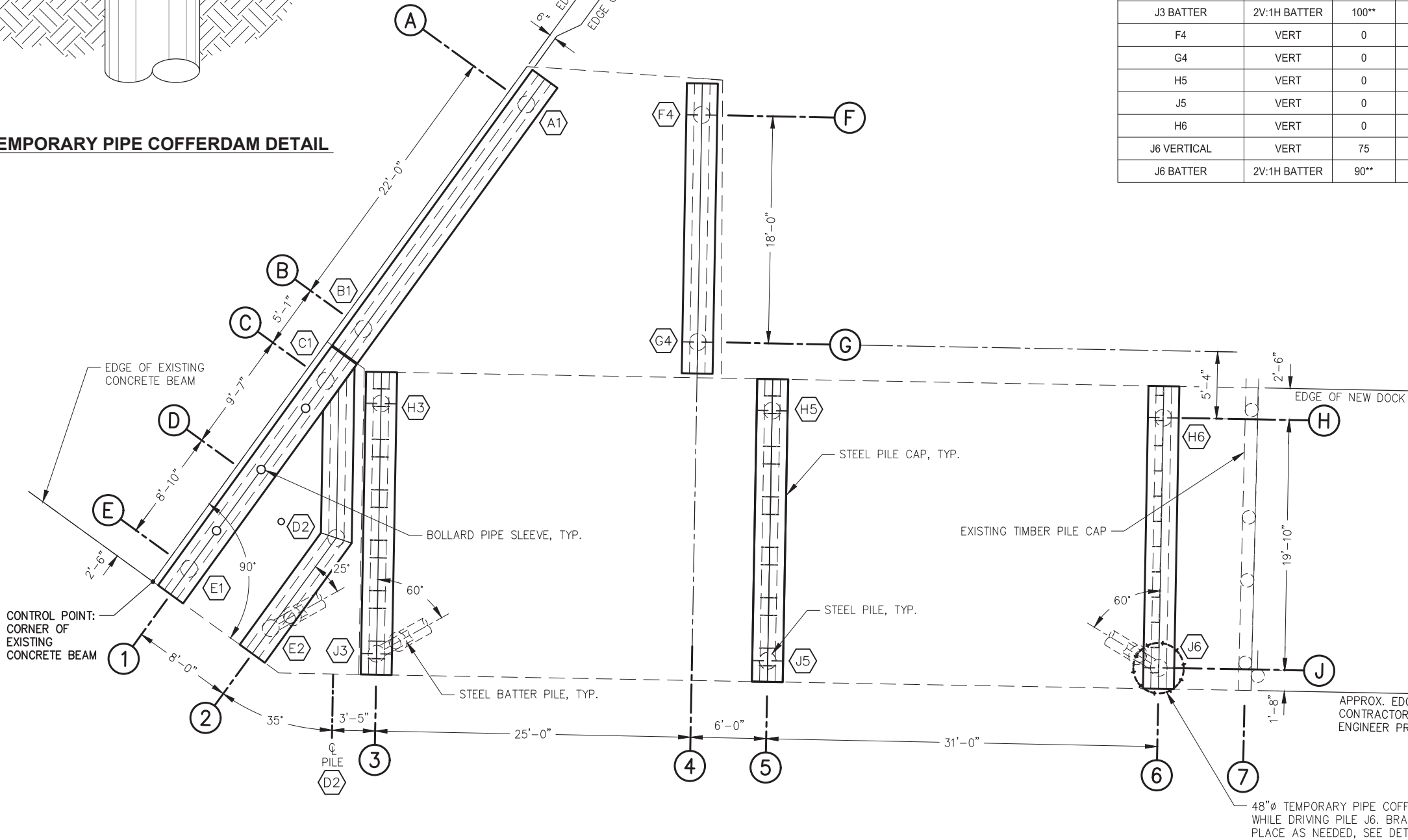


TEMPORARY PIPE COFFERDAM DETAIL

NOTE:
TO COMPLY WITH PROJECT PERMIT REQUIREMENTS, INSTALLATION OF ALL PILES SHALL BE ACCOMPLISHED UTILIZING ONE OF THE FOLLOWING MEANS/METHODS:

- USE OF VIBRATORY AND/OR IMPACT HAMMER DURING LOW TIDE SUCH THAT PILE IS OUT OF THE WATER
- USE OF TEMPORARY COFFER DAM TYPE SYSTEM (SEE DETAIL) TO ISOLATE PILE FROM WATER
- ** SPIN FIN TIP, SEE DETAILS (4 TOTAL)
- CONTRACTOR TO PROVIDE ADDITIONAL 40 FT OF 16"Øx0.500t. STEEL PIPE PILE. PILE TO BECOME PROPERTY OF OWNER IF NOT USED DURING CONSTRUCTION.

PILE SCHEDULE						
PILE REFERENCE AND GRID INTERSECTION	PILE ORIENTATION	DESIGN LOAD (kips)		EST. PILE TIP ELEVATION (feet)	PILE SUPPLY LENGTH (feet)	APPROX. MEAN LOW ELEVATION
		TENSION	COMPRESSION			
A1	VERT	0	135	-50	80	+18
B1	VERT	0	215	-50	80	+13
C1	VERT	30	75	-55	80	+11
E1	VERT	30	80	-55	80	+8
D2	VERT	15	80	-55	80	+8
E2 VERTICAL	VERT	50	140	-55	80	+6
E2 BATTER	2V:1H BATTER	90**	95	-55	90	+10
H3	VERT	0	100	-55	80	+11
J3 VERTICAL	VERT	85**	165	-55	80	+4
J3 BATTER	2V:1H BATTER	100**	100	-55	90	+8
F4	VERT	0	160	-55	80	+17
G4	VERT	0	215	-55	80	+13
H5	VERT	0	300	-55	80	+10
J5	VERT	0	300	-55	80	+1
H6	VERT	0	100	-53	80	+4
J6 VERTICAL	VERT	75	160	-53	80	-6
J6 BATTER	2V:1H BATTER	90**	90	-53	90	+1



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DRAWN: WRB
APPROVED: JLD

SCALE: 0 5 10 FT.

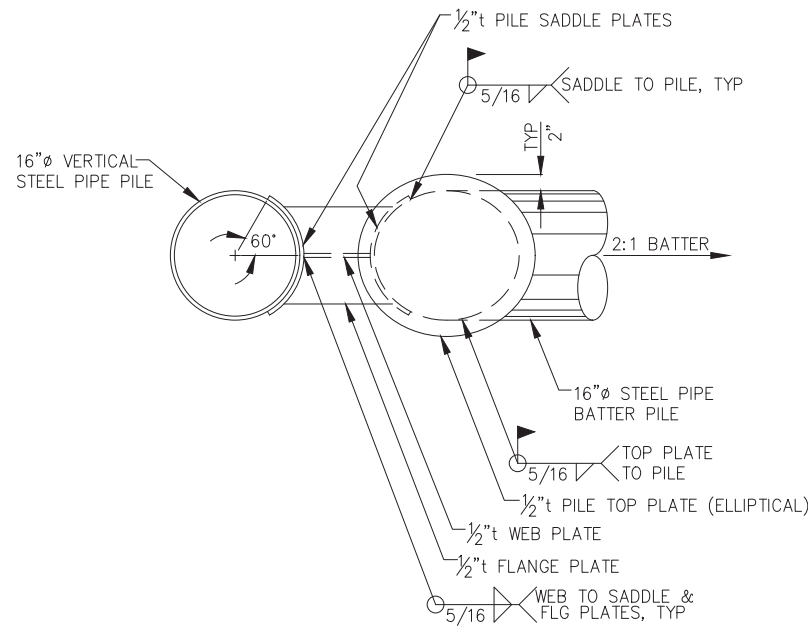


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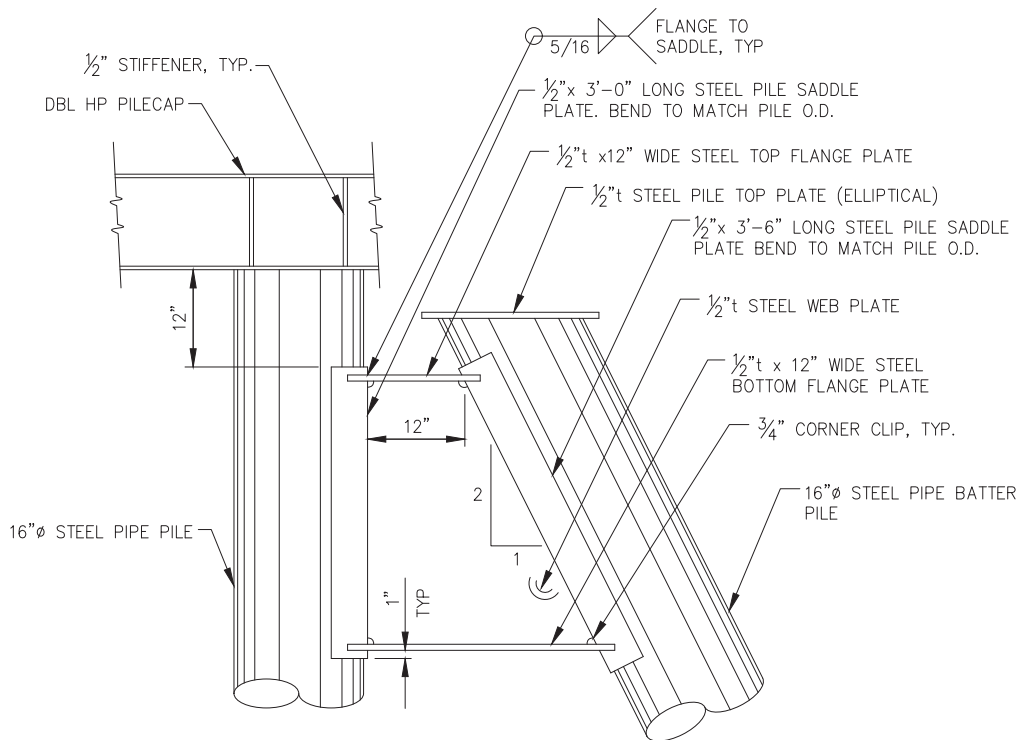
SHEET TITLE:
PILE PLAN AND SCHEDULE

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

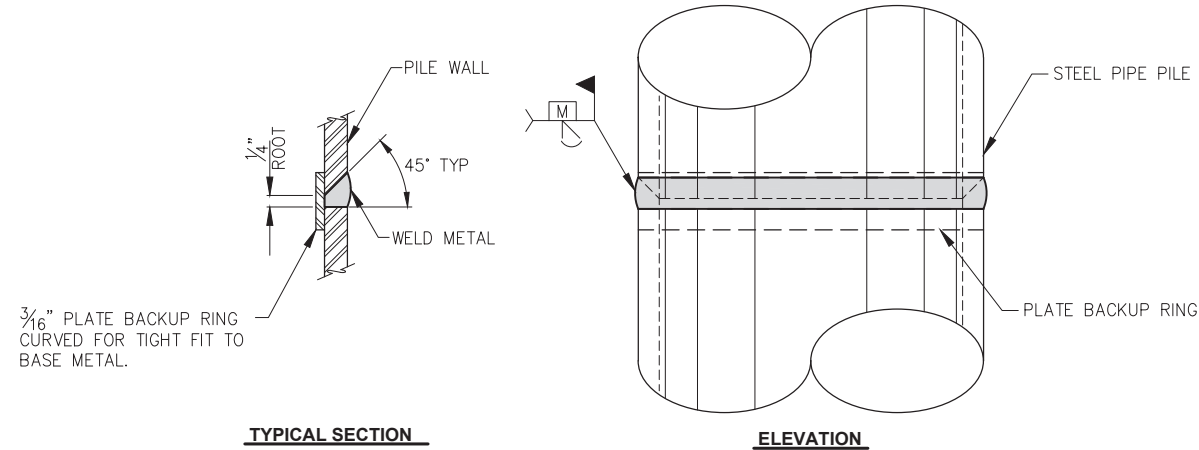
S102



BATTER PILE CONNECTION PLAN



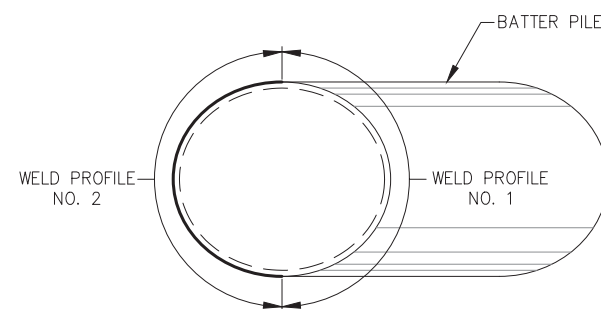
BATTER PILE WELDMENT ELEVATION



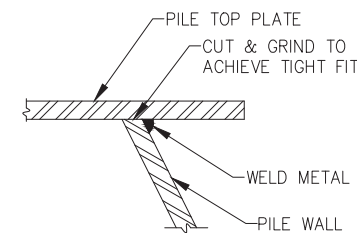
TYPICAL SECTION

ELEVATION

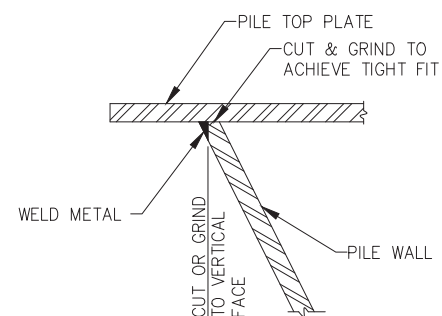
TYPICAL PILE SPICE WELD
(TYPICAL FOR ALL PIPE PILE SPLICES)



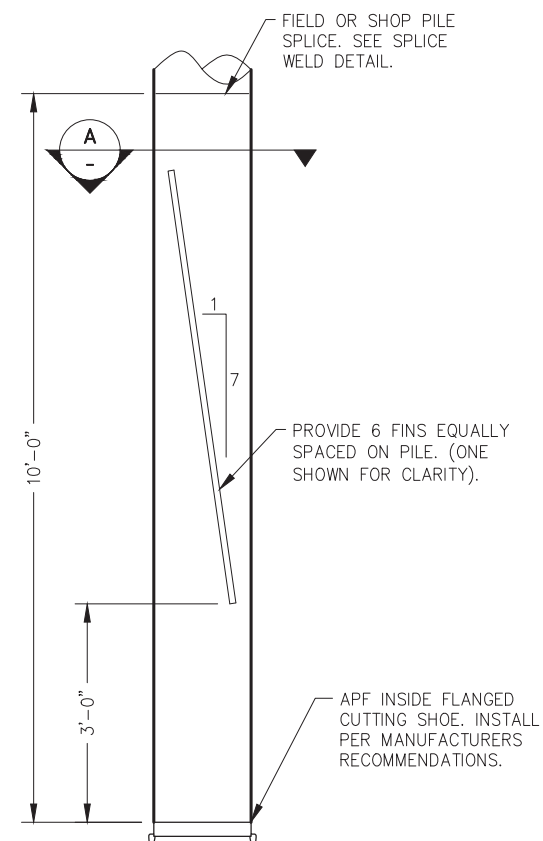
WELD PROFILES



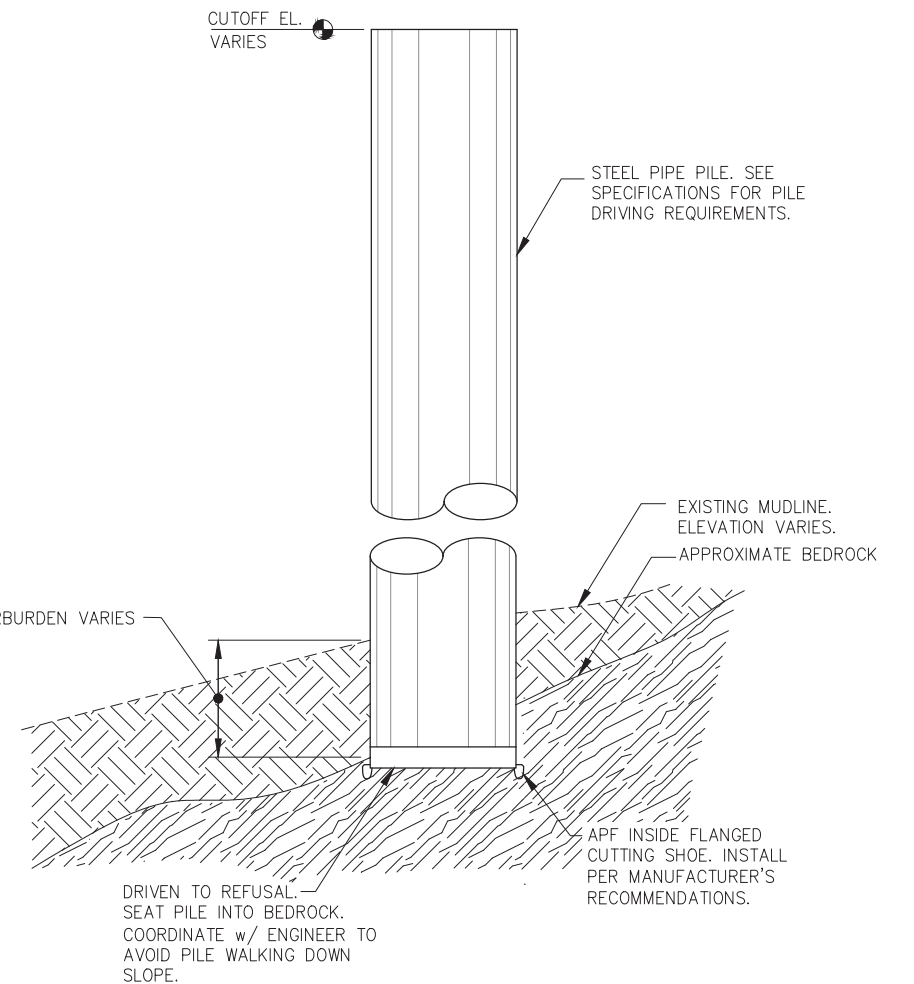
WELD PROFILE NO. 1



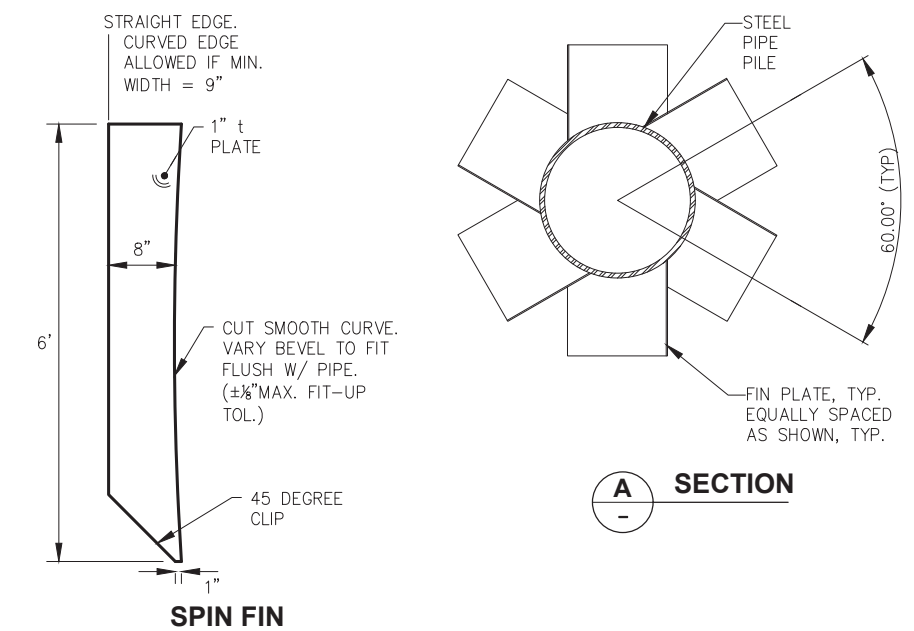
WELD PROFILE NO. 2



SPIN FIN TIP - ELEVATION

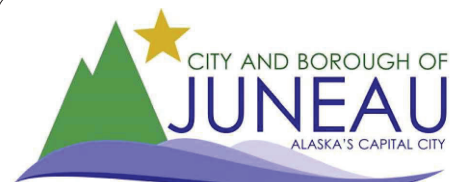


TYPICAL STEEL PILE DETAIL



SPIN FIN

A SECTION



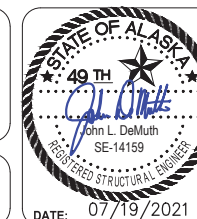
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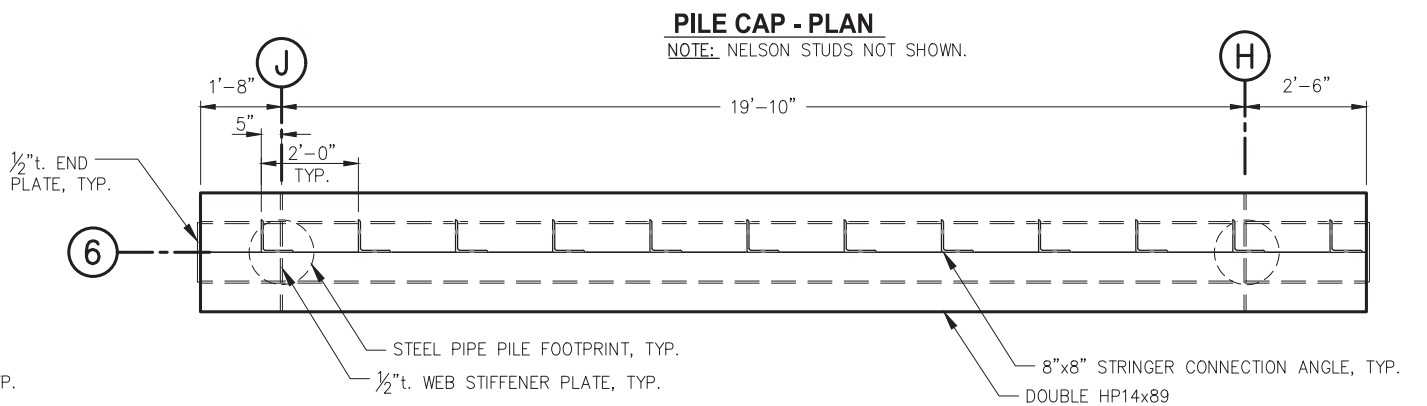
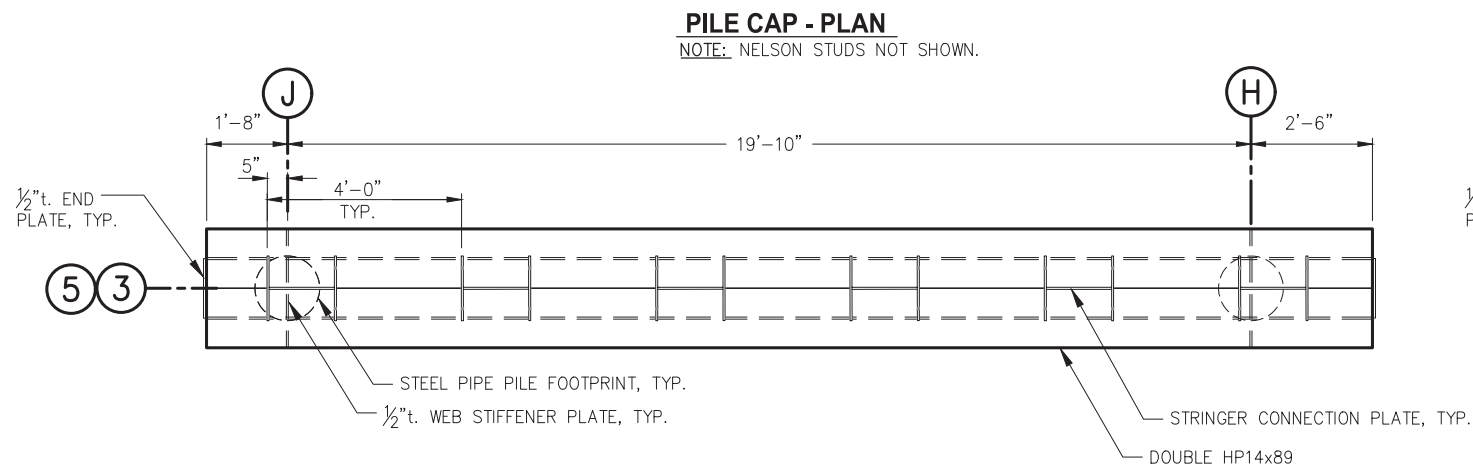
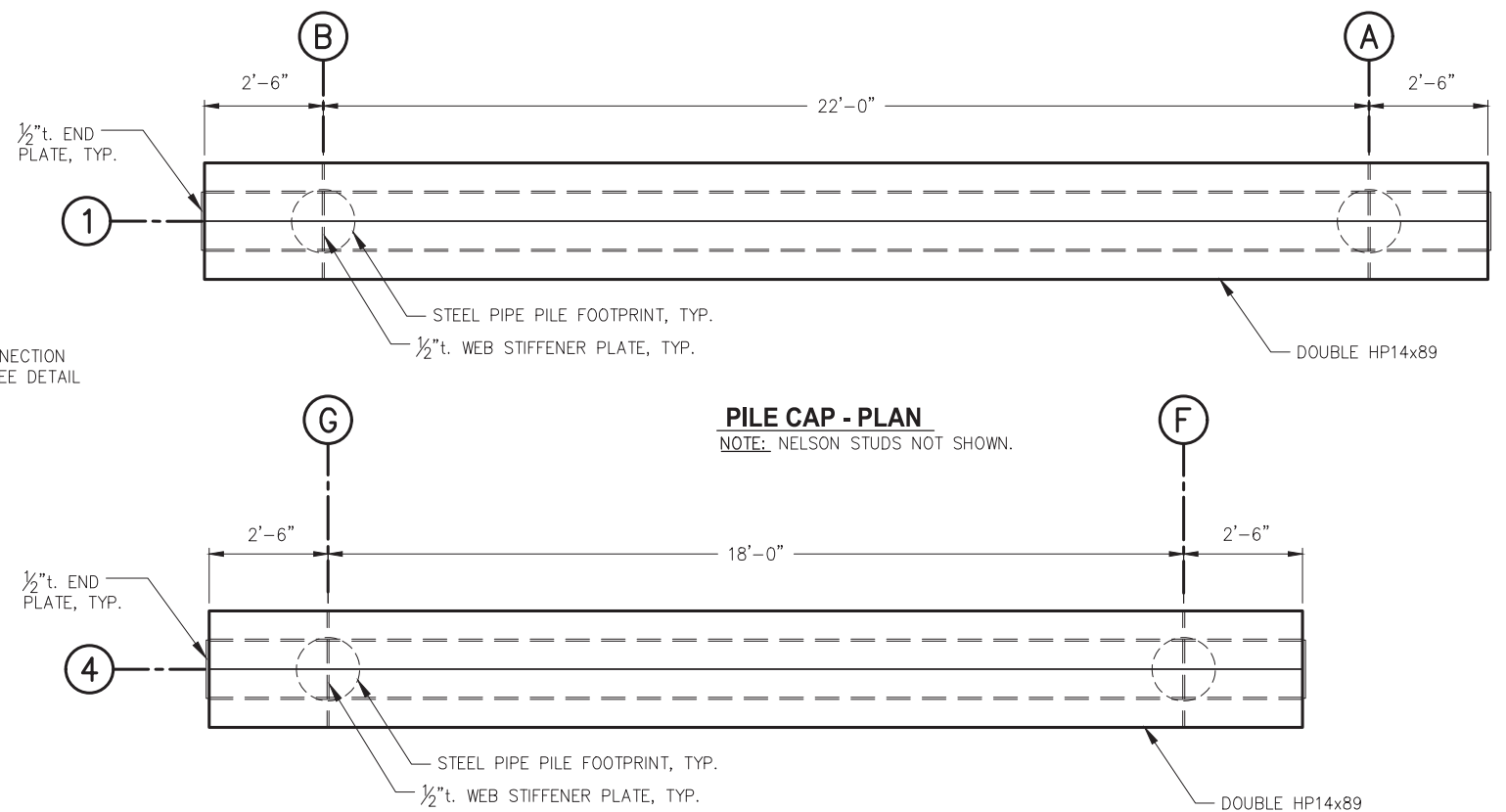
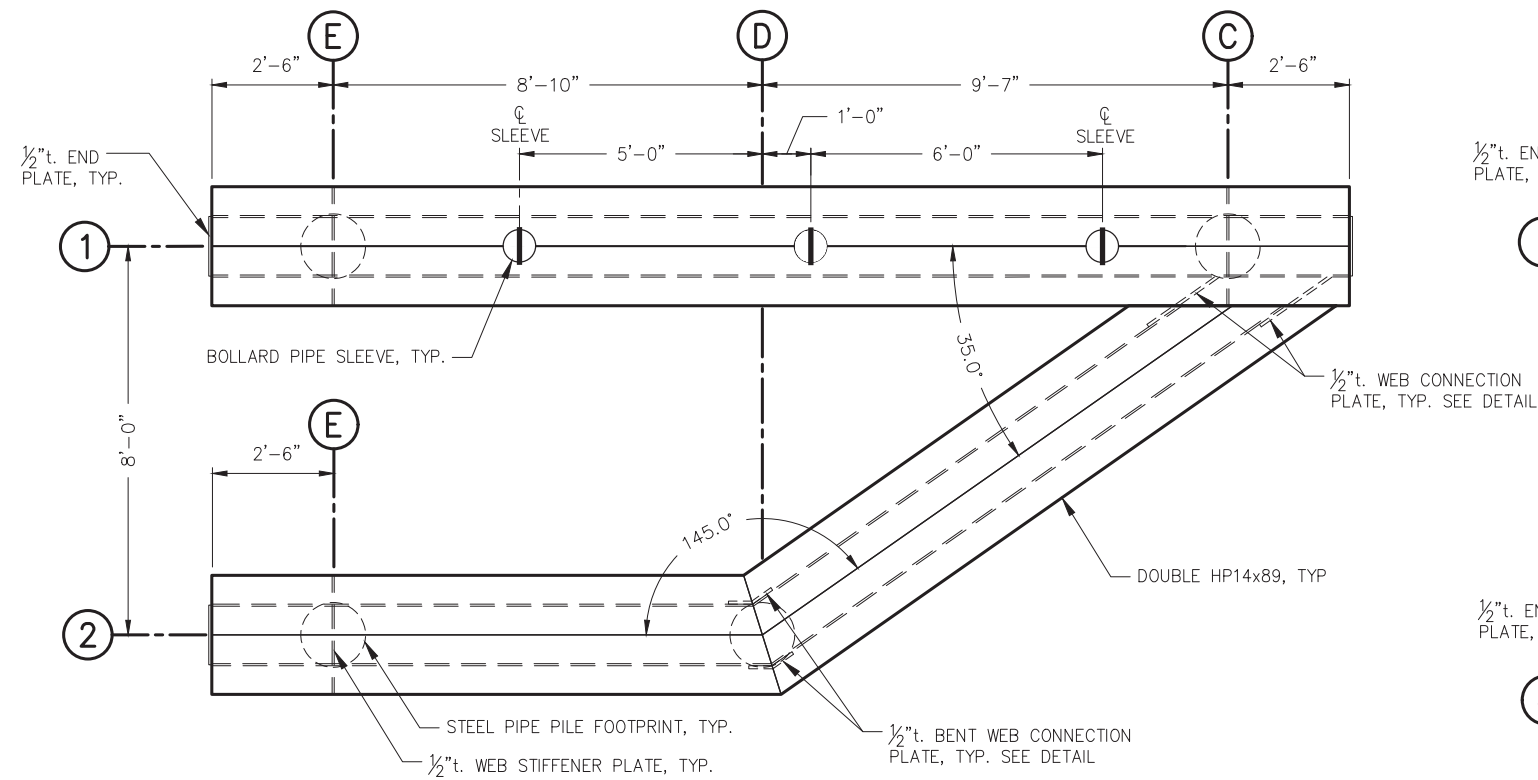


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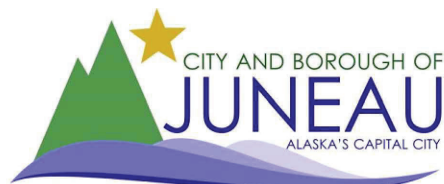
SHEET TITLE: **PILE DETAILS**

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

S103



- NOTES:**
- ALL PLATE DIMENSIONS ARE TO THE OUTSIDE OF SIDE PLATES, UNLESS OTHERWISE NOTED.
 - ALL PILE CAPS DBL HP14x89, UNLESS OTHERWISE NOTED.
 - ALL WELDMENT WELDS SHALL BE 5/16" FILLET, ALL AROUND UNLESS OTHERWISE NOTED.



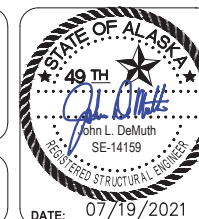
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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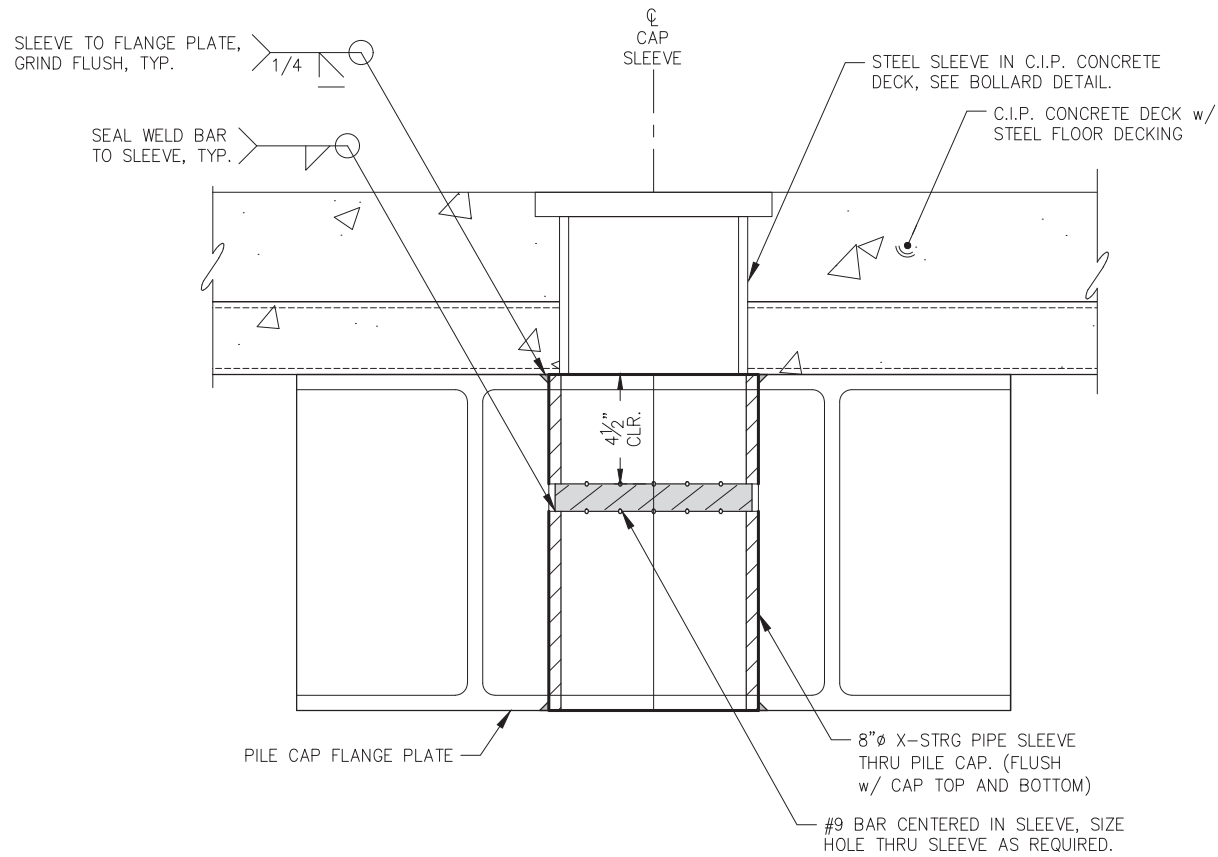


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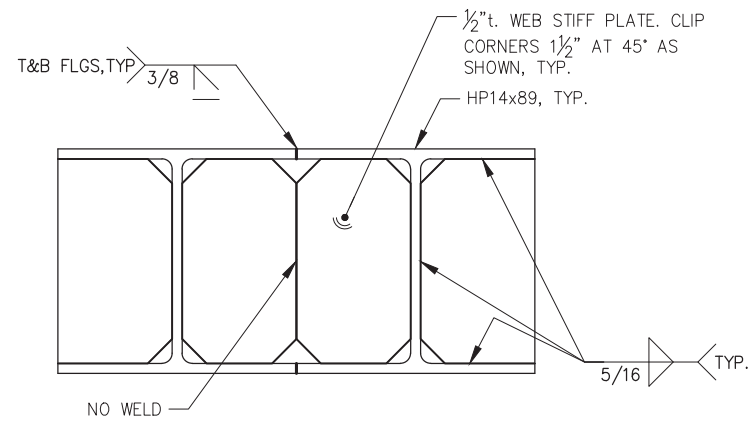
SHEET TITLE:
PILE CAP DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

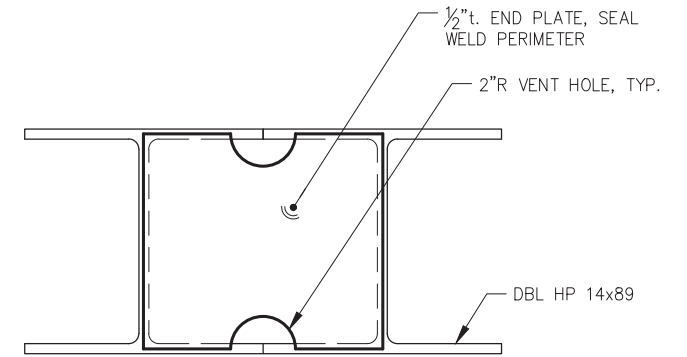
S104



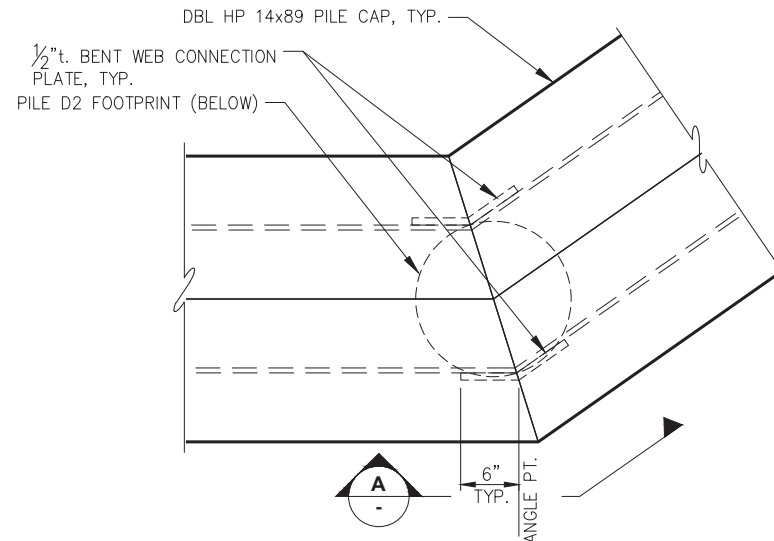
BOLLARD PIPE SLEEVE DETAIL
(PILE CAP GRID 1 ONLY)



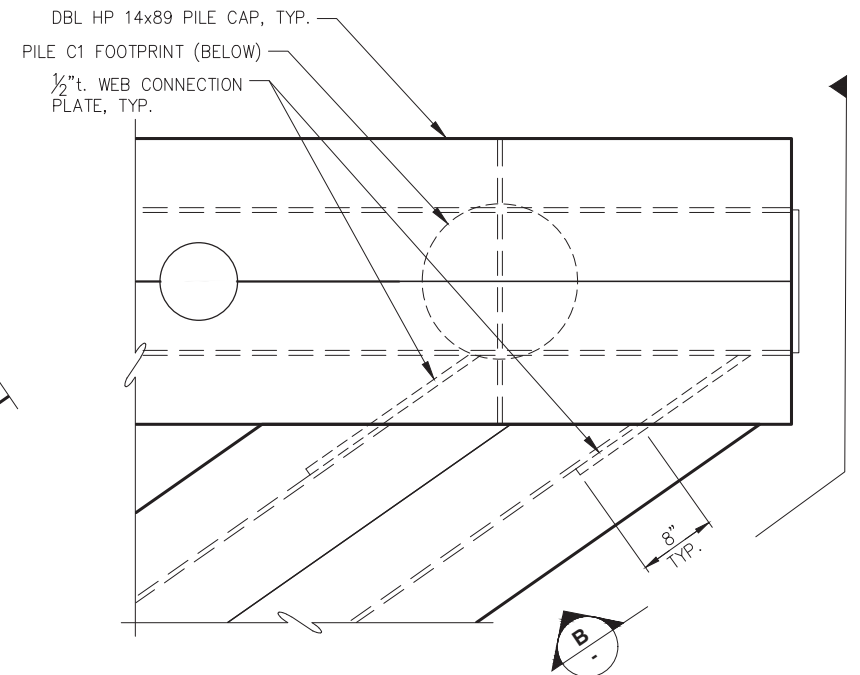
TYPICAL PILE CAP SECTION



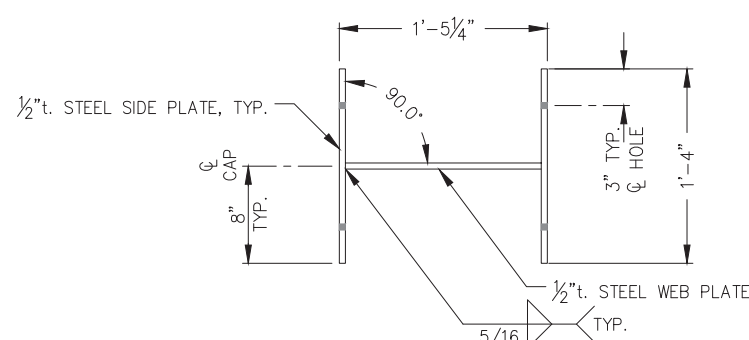
END PLATE DETAIL



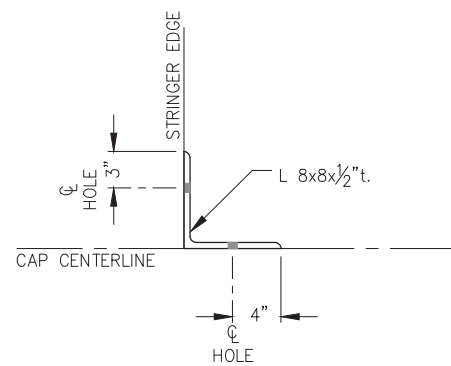
GRID 2-D PILE CAP SPLICE - PLAN



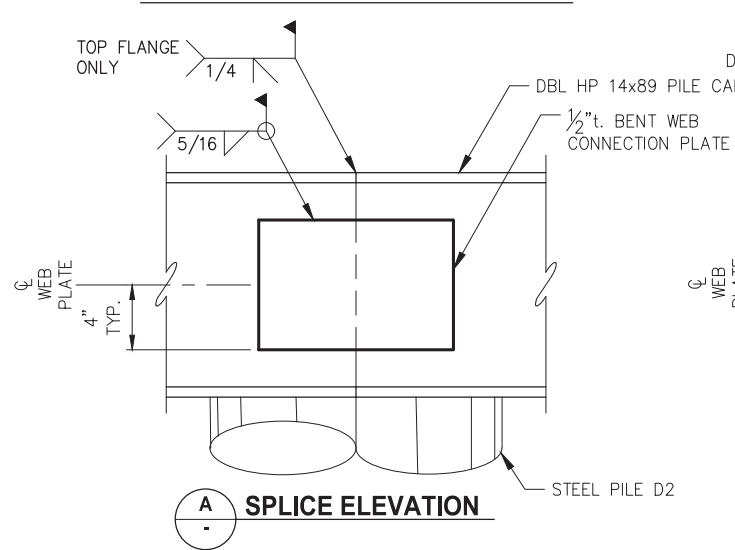
GRID 1-C PILE CAP SPLICE - PLAN



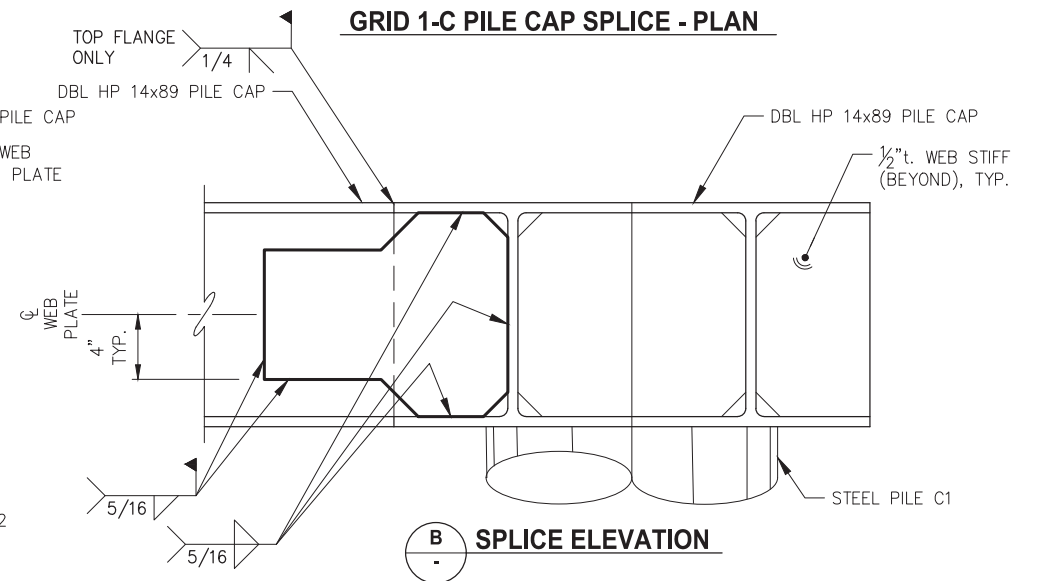
STRINGER CONNECTION PLATE
(PILE CAP 3 AND 5)



STRINGER CONNECTION ANGLE
(PILE CAP 6 ONLY)



SPICE ELEVATION



SPICE ELEVATION



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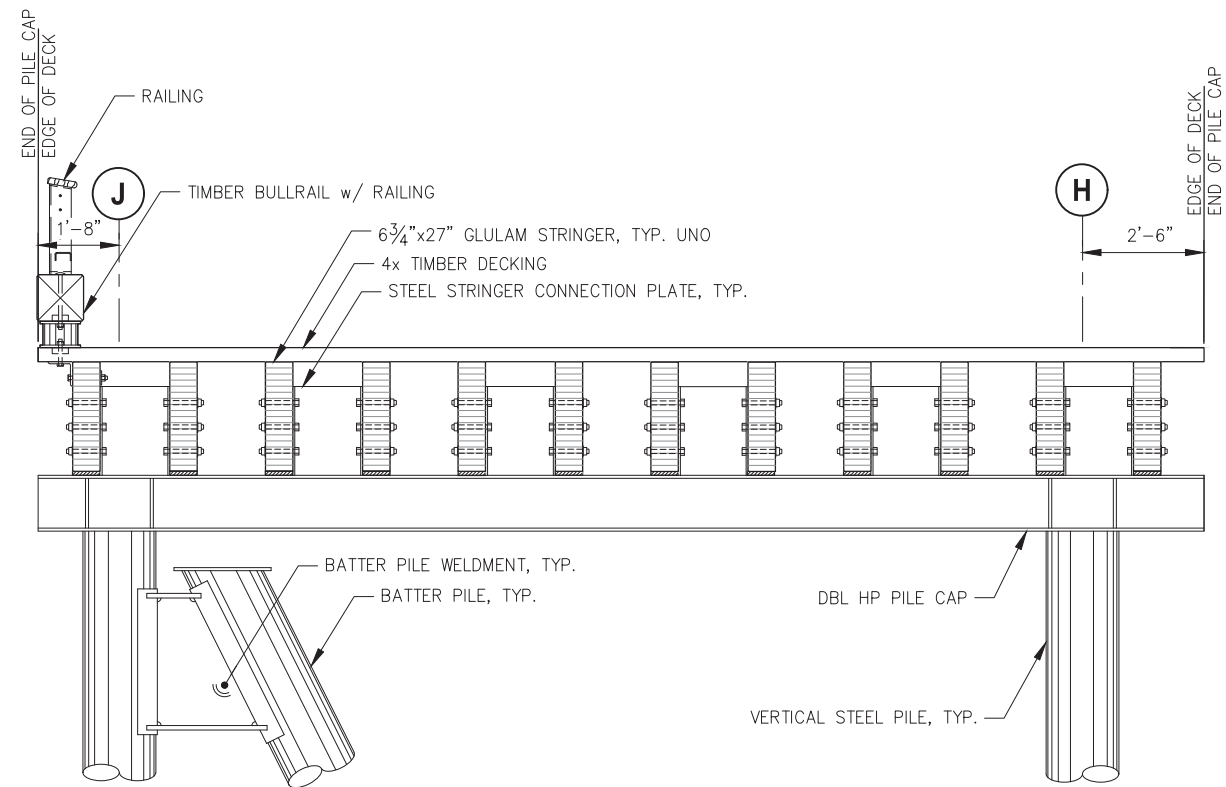


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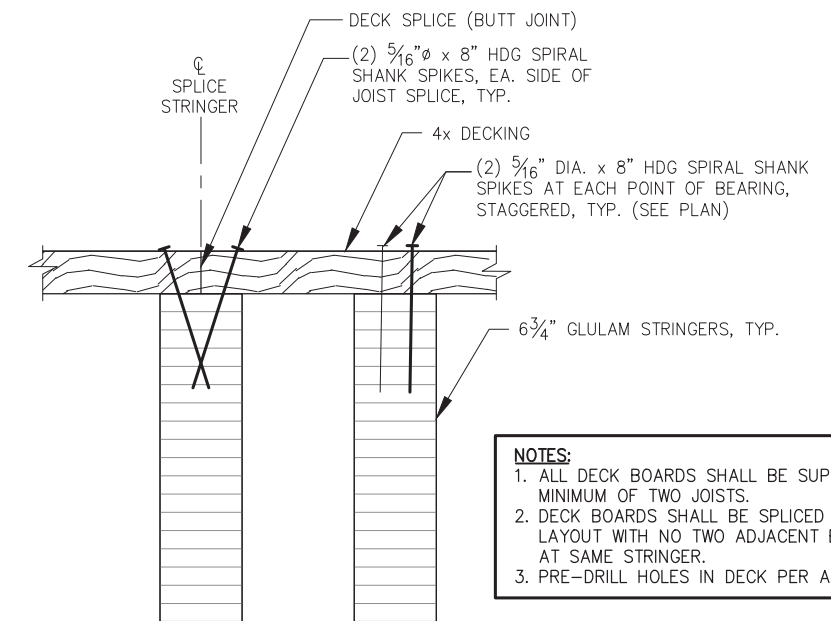
SHEET TITLE:
PILE CAP DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

S105

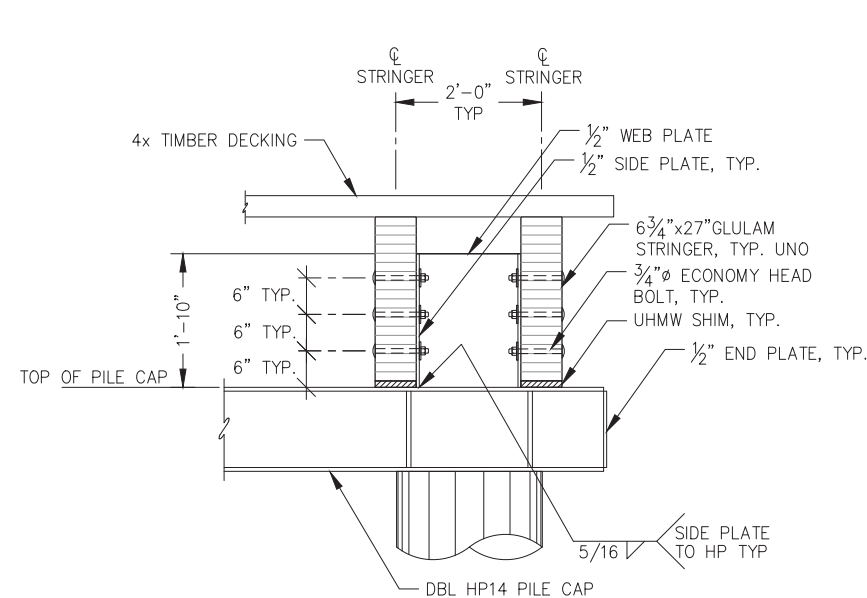


TYPICAL TIMBER DOCK SECTION



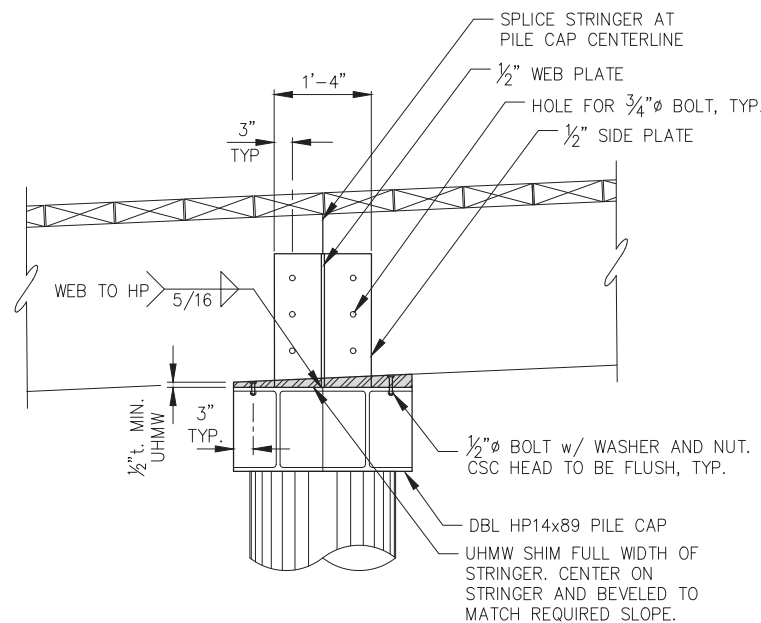
- NOTES:**
1. ALL DECK BOARDS SHALL BE SUPPORTED BY A MINIMUM OF TWO JOISTS.
 2. DECK BOARDS SHALL BE SPLICED WITH A RANDOM LAYOUT WITH NO TWO ADJACENT BOARDS SPLICED AT SAME STRINGER.
 3. PRE-DRILL HOLES IN DECK PER AITC, TYP.

TYPICAL DECK TO STRINGER CONNECTION



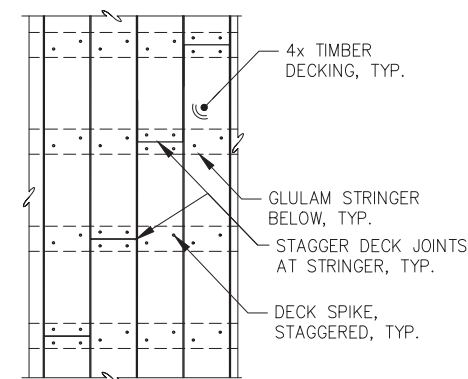
STRINGER CONNECTION PLATE - ELEVATION

NOTE:
STRINGER TO BE FIELD DRILLED/TREATED FOR BOLT HOLES.

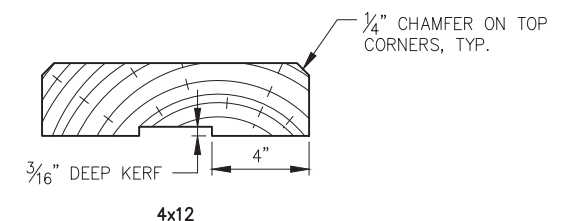


STRINGER CONNECTION PLATE - SECTION

NOTE:
STRINGER TO BE FIELD DRILLED/TREATED FOR BOLT HOLES.

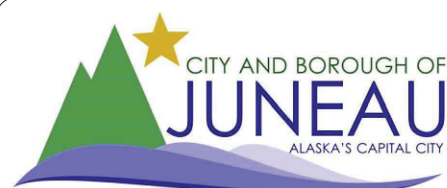


TYPICAL DECK SPLICE STAGGER - PLAN



DECKING PROFILE

- NOTES:**
1. SEE SPECIFICATIONS FOR COMPLETE DECKING REQUIREMENTS.
 2. NO DECKING SHALL BE INCORPORATED INTO THE WORK THAT FALLS OUTSIDE OF THE SPECIFIED GRADING.
 3. NO DECKING WITH WANE ON THE TOP OF SURFACE SHALL BE INCORPORATED IN THE WORK.



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SCALE:
AS SHOWN

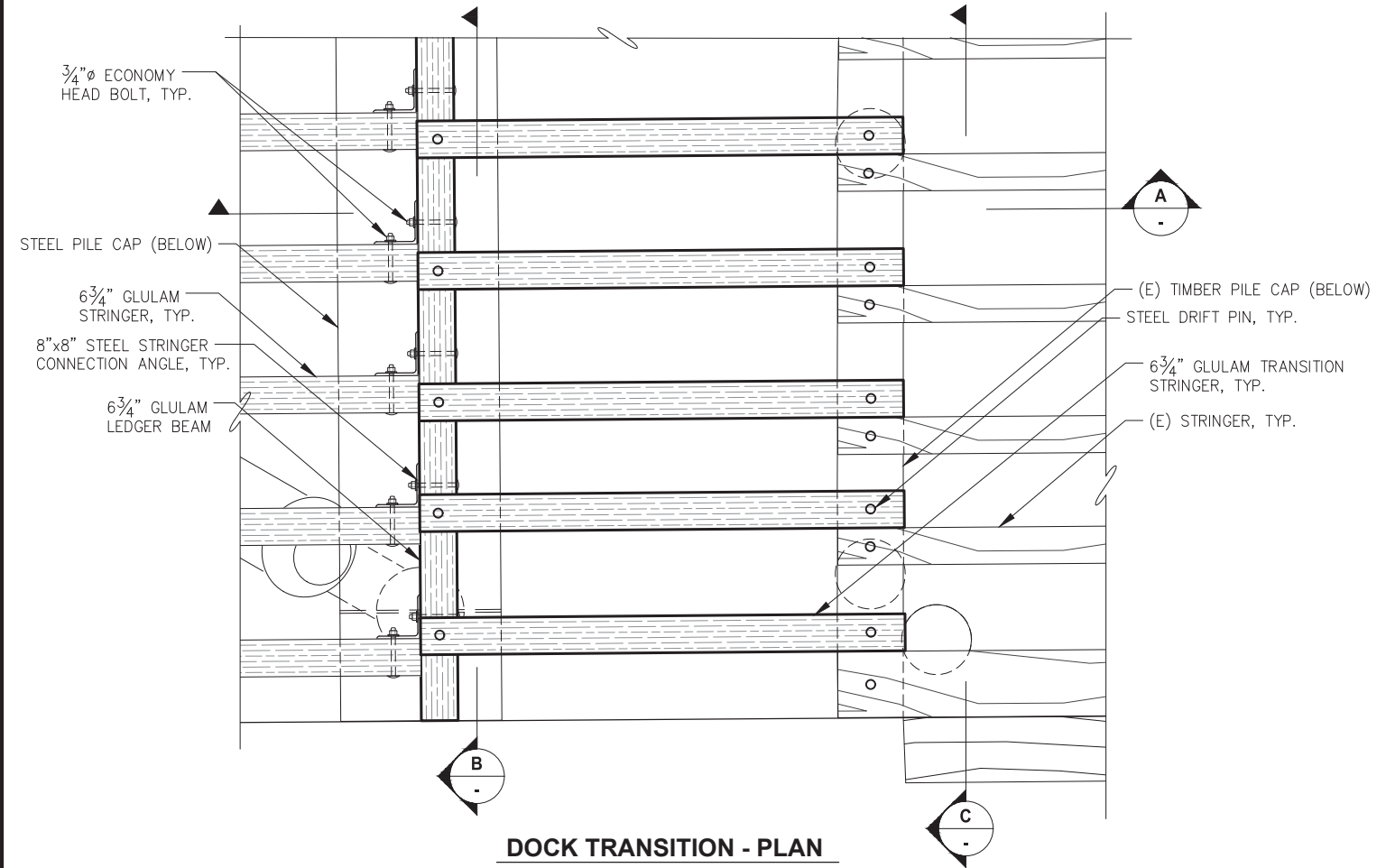


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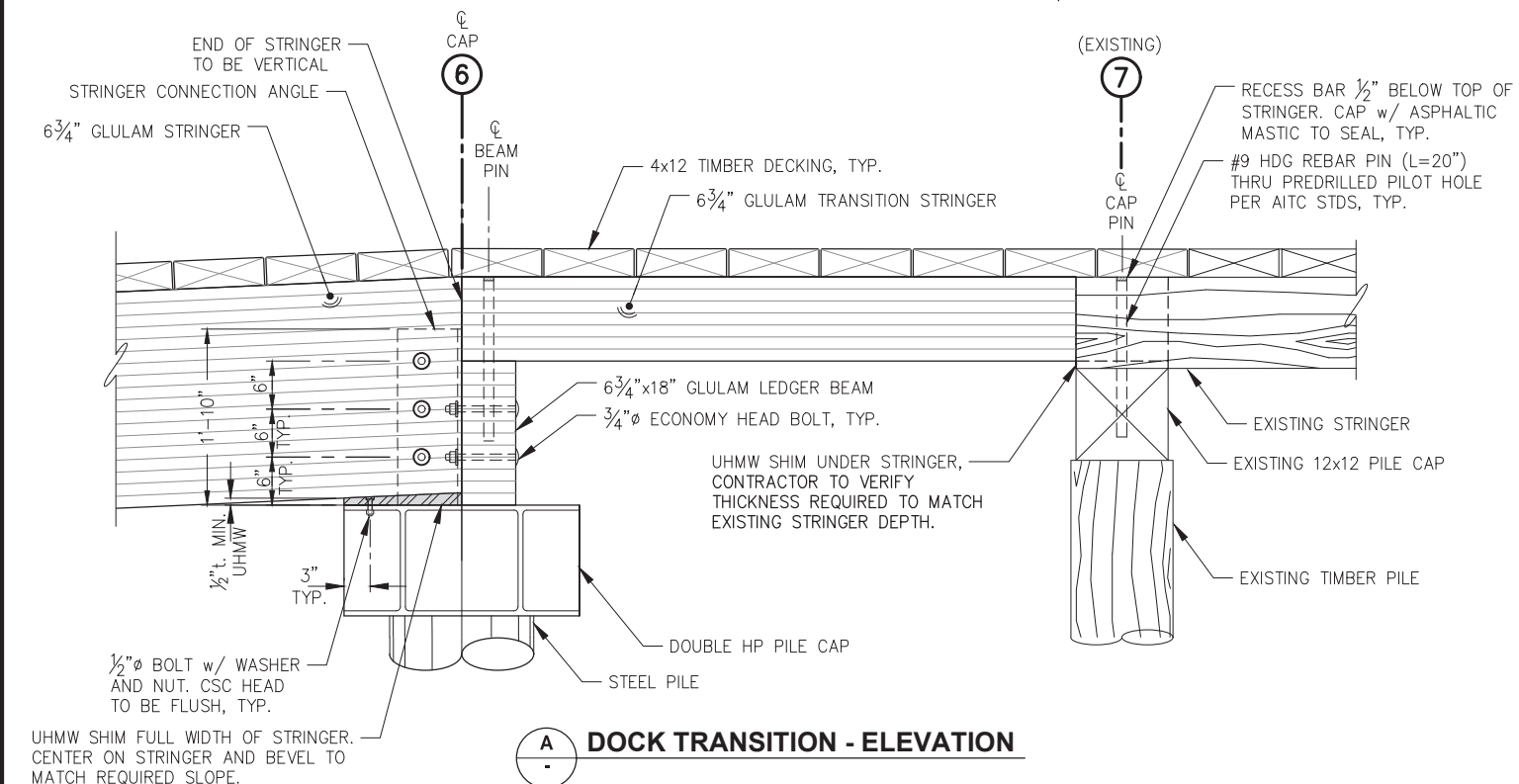
SHEET TITLE:
TIMBER DOCK SECTION AND DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

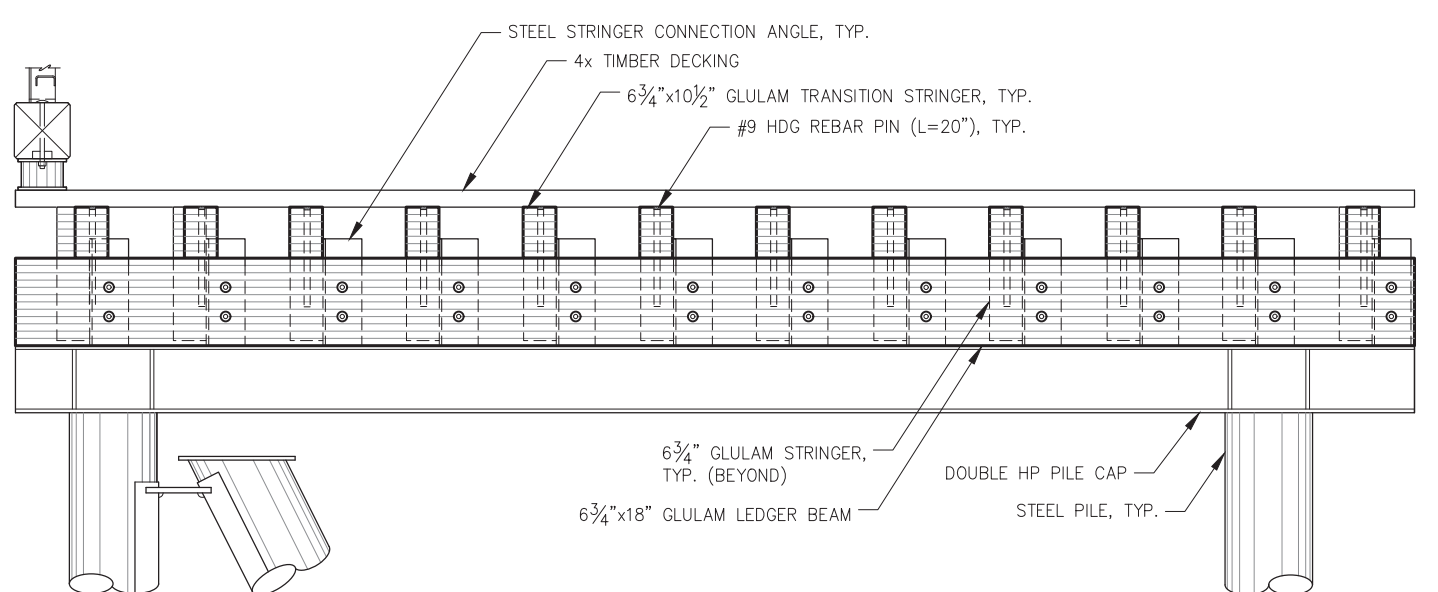
S106



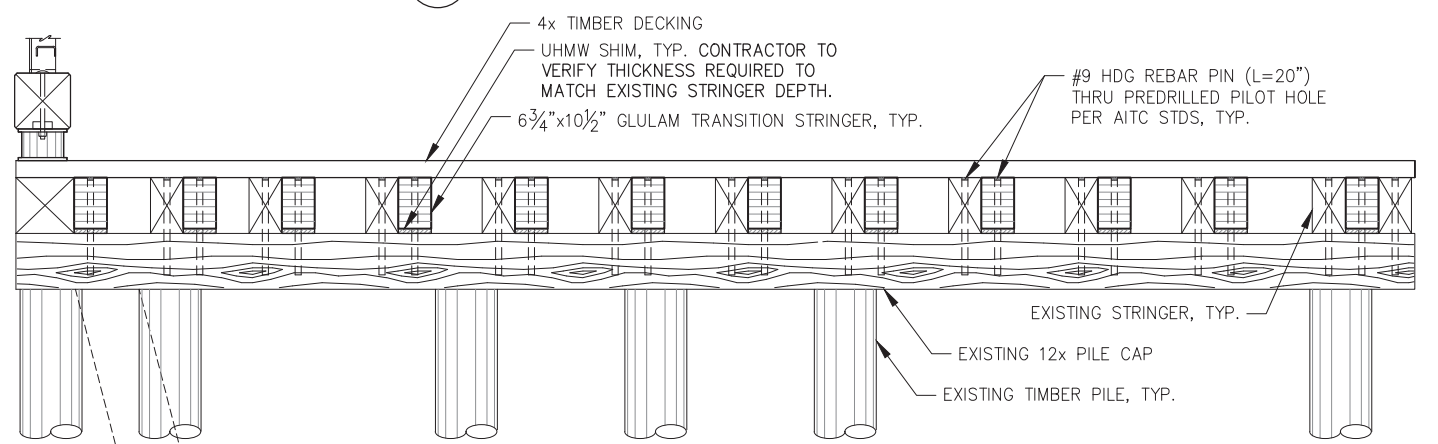
DOCK TRANSITION - PLAN



DOCK TRANSITION - ELEVATION



GRID 6 - GLULAM LEDGER BEAM



GRID 7 - EXISTING TIMBER PILE CAP



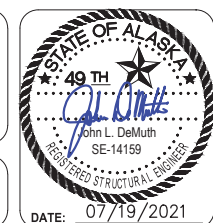
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SCALE: AS SHOWN

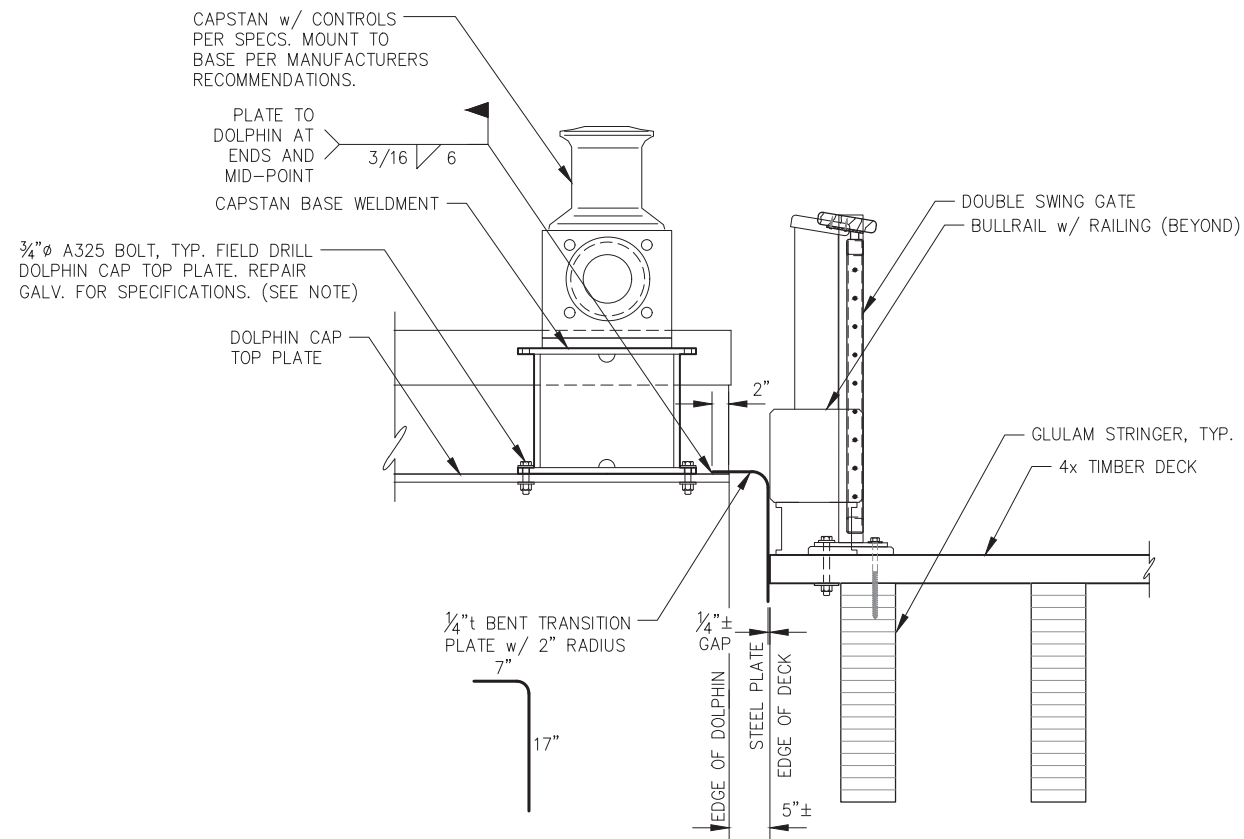


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MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

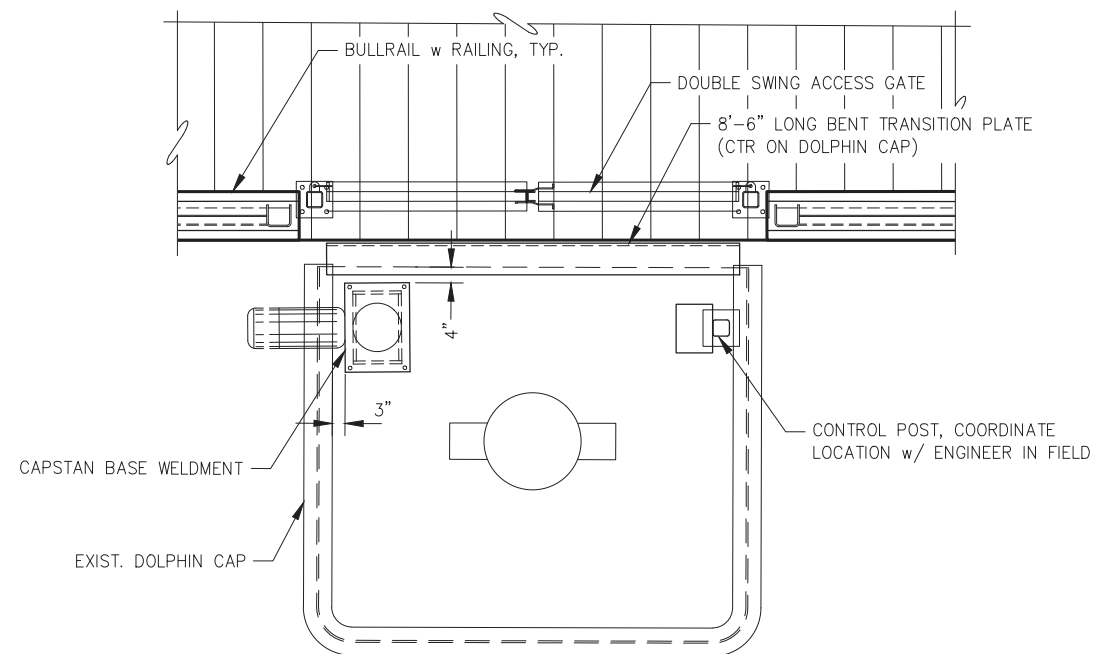
SHEET TITLE:
TIMBER DOCK TRANSITION TO EXISTING DOCK

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

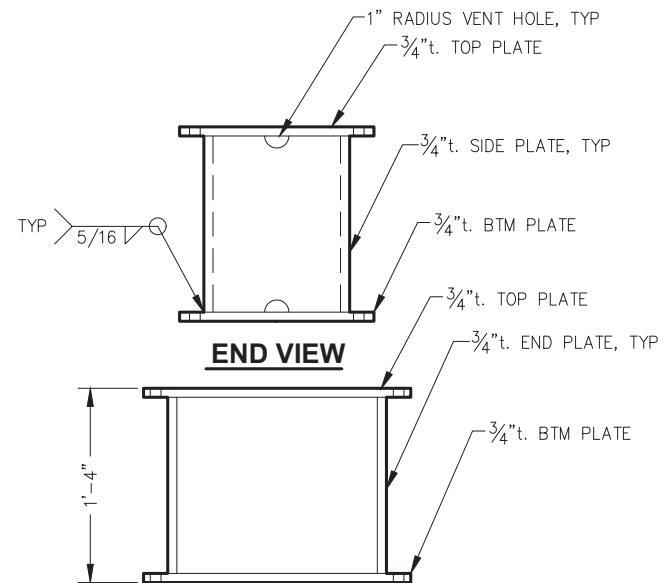
S107



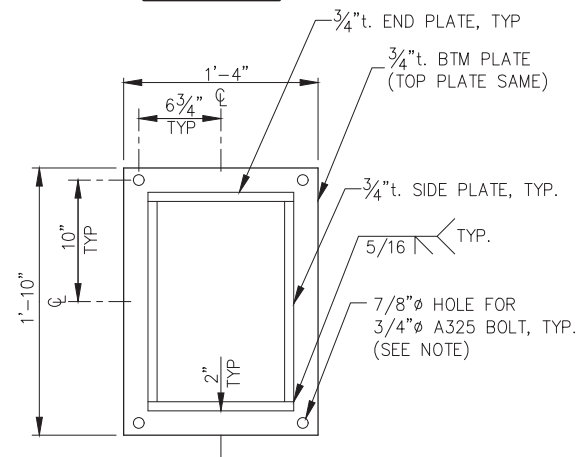
A TIMBER DOCK AT EXISTING DOLPHIN



EXISTING DOLPHIN - MODIFICATION PLAN

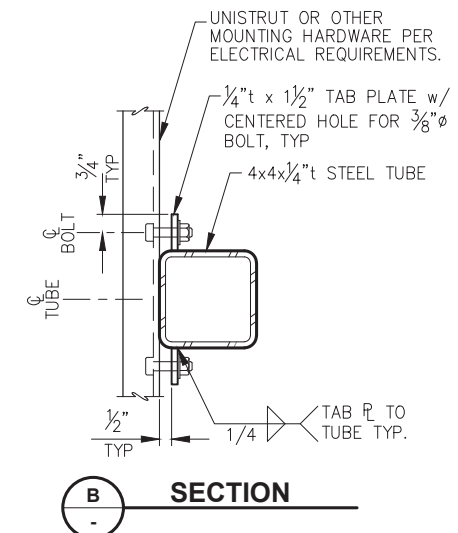


SIDE VIEW

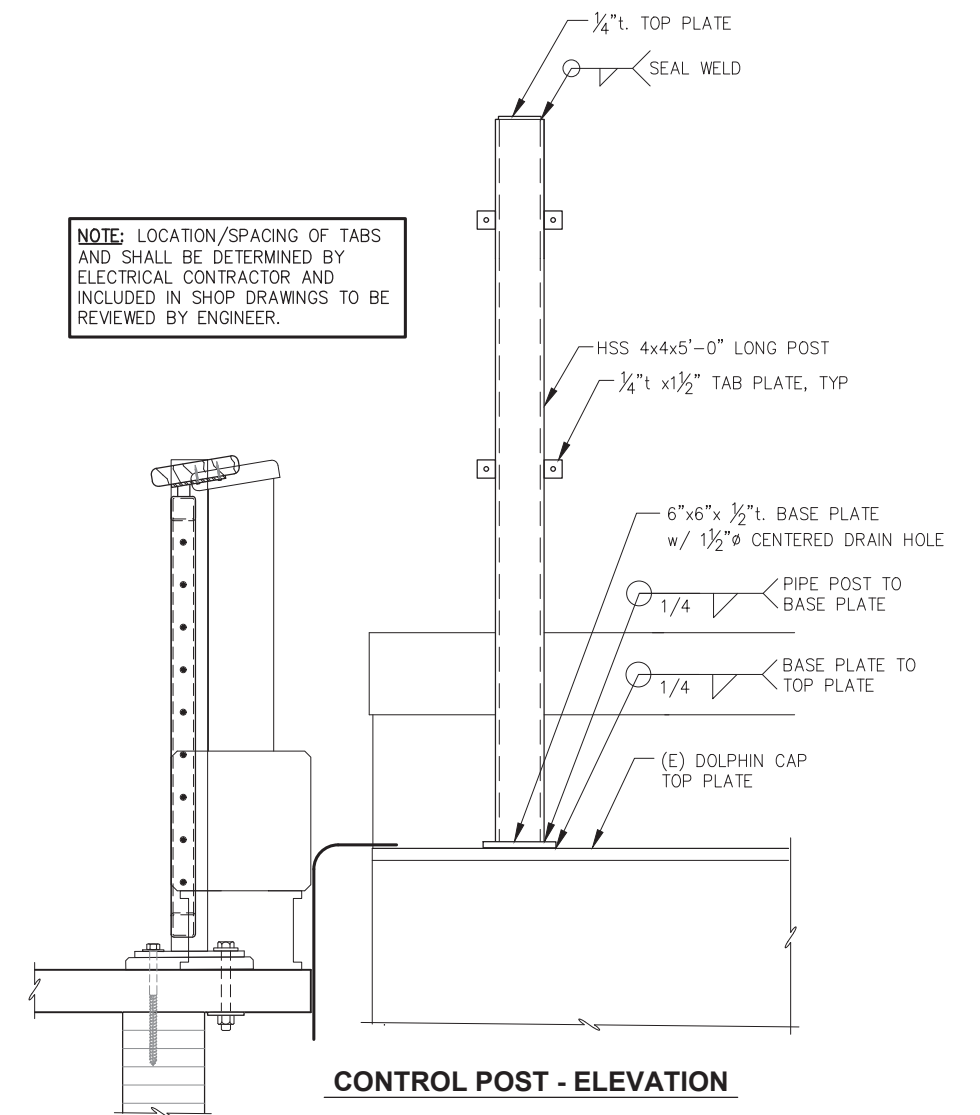


CAPSTAN BASE - PLAN

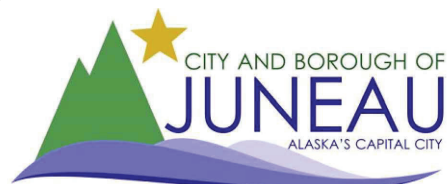
NOTE: CONTRACTOR MAY ALTERNATIVELY CHOOSE TO FIELD WELD CAPSTAN BASE TO EXISTING DOLPHIN TOP PLATE w/ 5/16" FILLET ALL AROUND. REPAIR GALV. PER SPECIFICATIONS.



NOTE: LOCATION/SPACING OF TABS AND SHALL BE DETERMINED BY ELECTRICAL CONTRACTOR AND INCLUDED IN SHOP DRAWINGS TO BE REVIEWED BY ENGINEER.



CONTROL POST - ELEVATION



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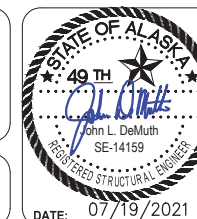
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SCALE: NTS



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MARINE PARK DECKOVER

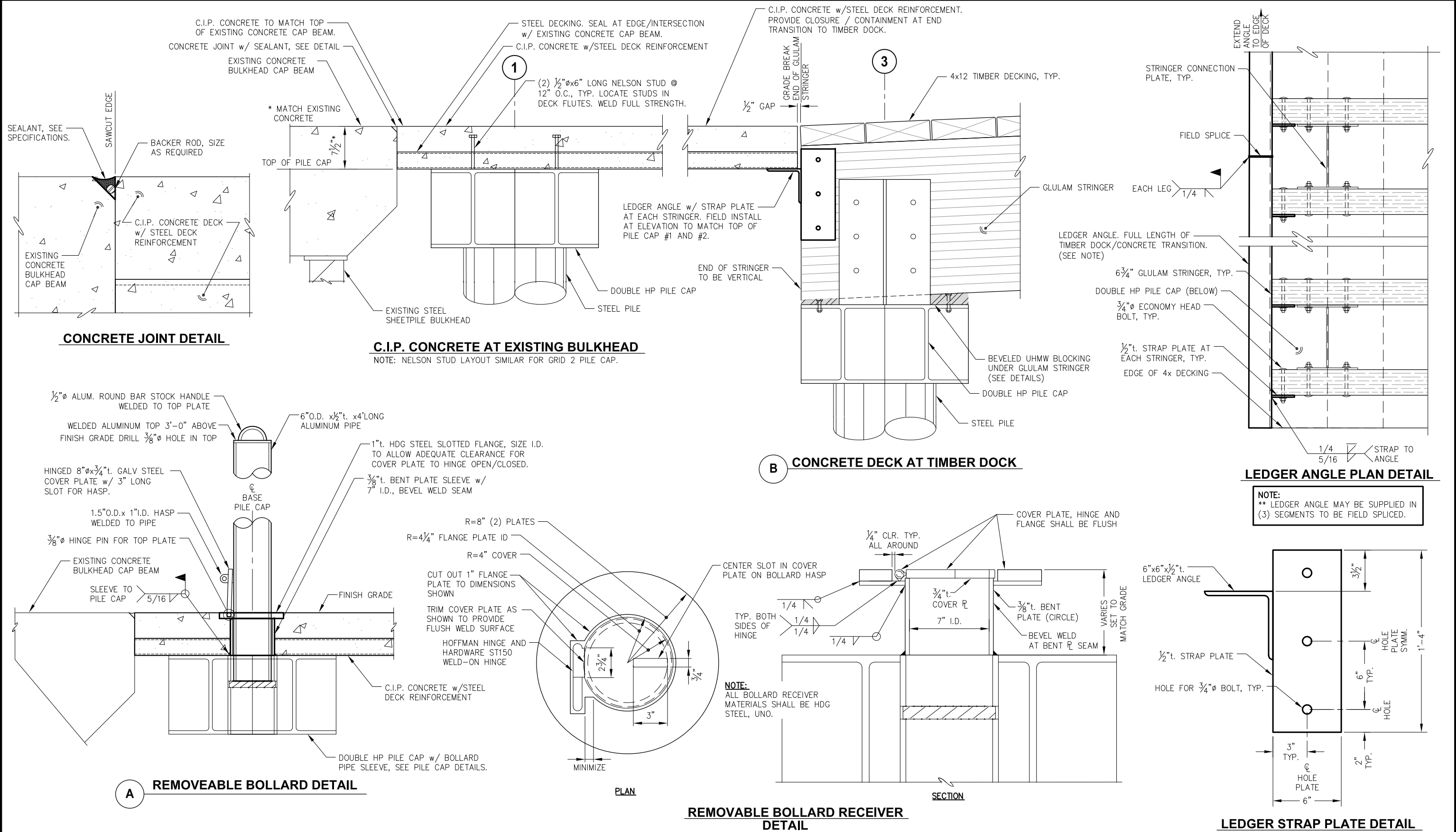
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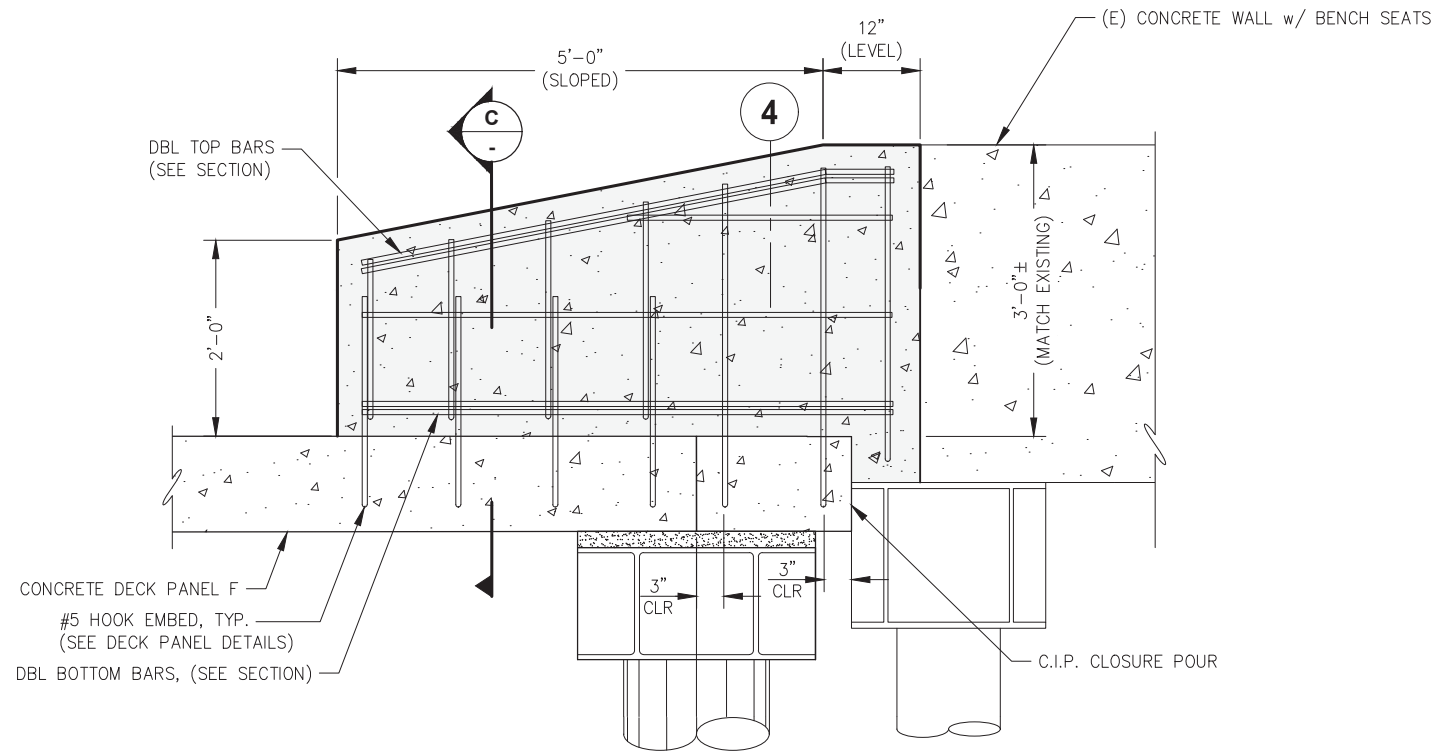
SHEET TITLE:

EXISTING MOORING DOLPHIN MODIFICATIONS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

S108

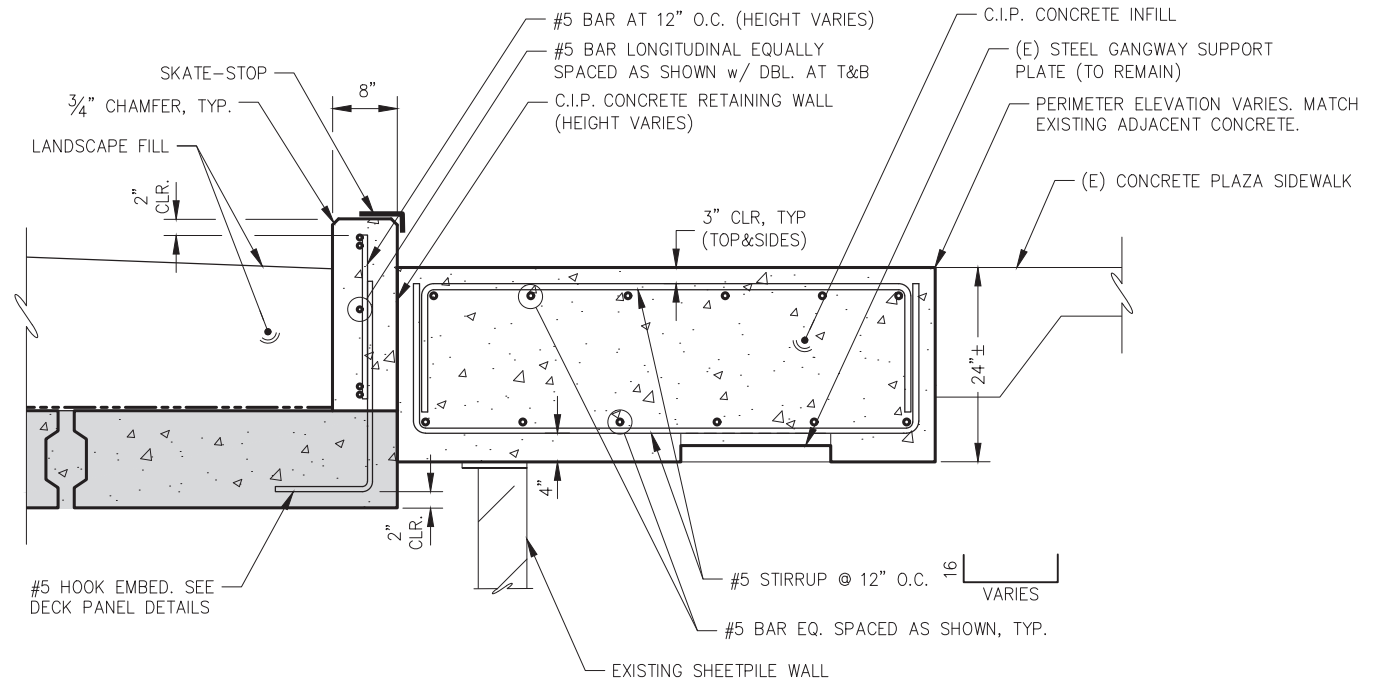




A CONCRETE RETAINING WALL - ELEVATION

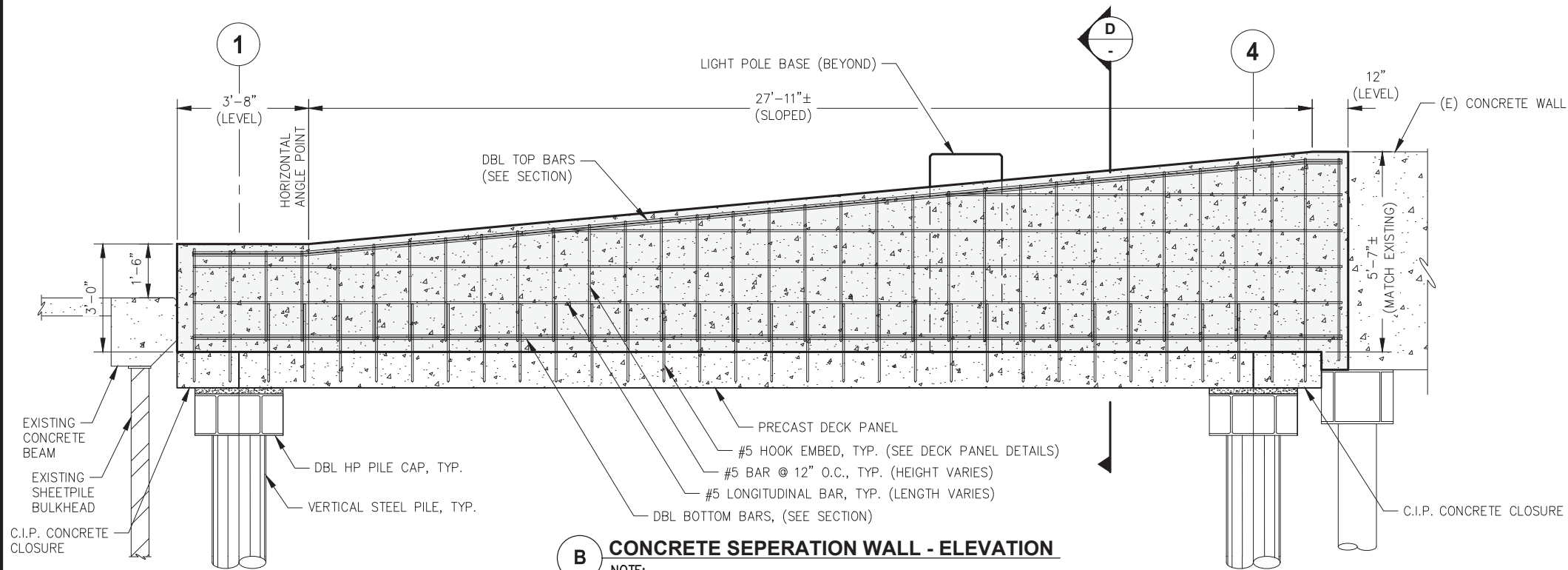
NOTE:

- 2" MIN. COVER, UNO FOR FIELD INSTALLED REBAR.
- SKATE STOPS NOT SHOWN, THIS VIEW, FOR CLARITY.



C CONCRETE WALL AND PLAZA INFILL - SECTION

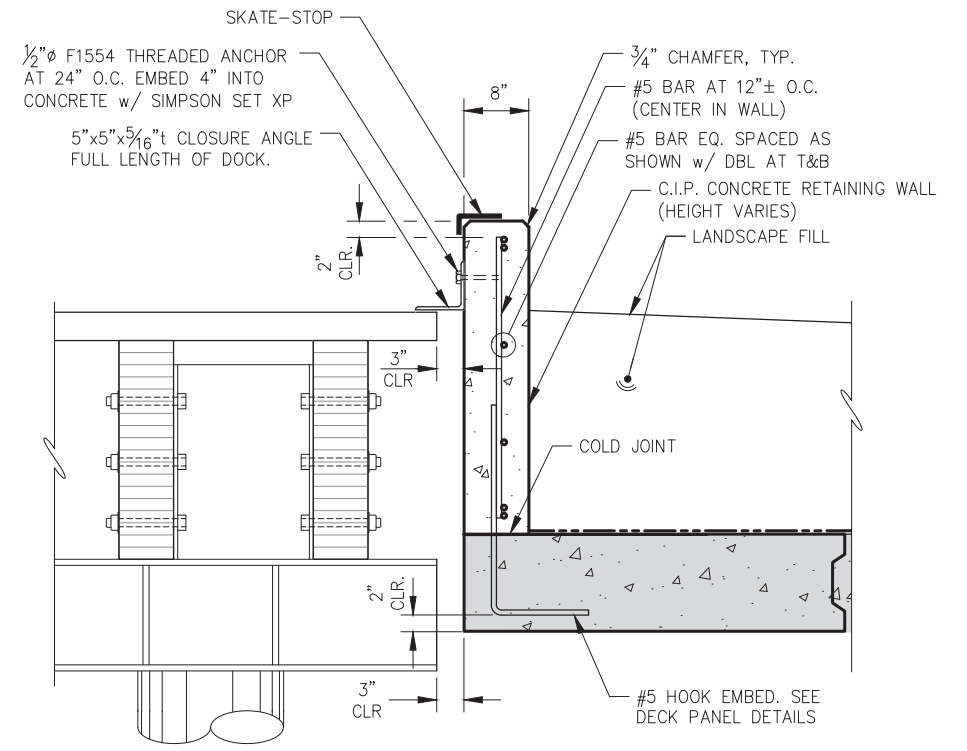
NOTE: CONTRACTOR TO PROVIDE FORMWORK AS REQUIRED BETWEEN SHEETPILE WALL AND PRECAST DECK PANEL FOR PLACEMENT OF INFILL CONCRETE.



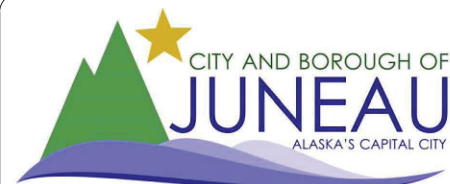
B CONCRETE SEPERATION WALL - ELEVATION

NOTE:

- 2" MIN. COVER UNO FOR FIELD INSTALLED REBAR.
- SKATE STOPS NOT SHOWN, THIS VIEW, FOR CLARITY.



D CONCRETE WALL - SECTION



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SCALE:
AS SHOWN



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MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

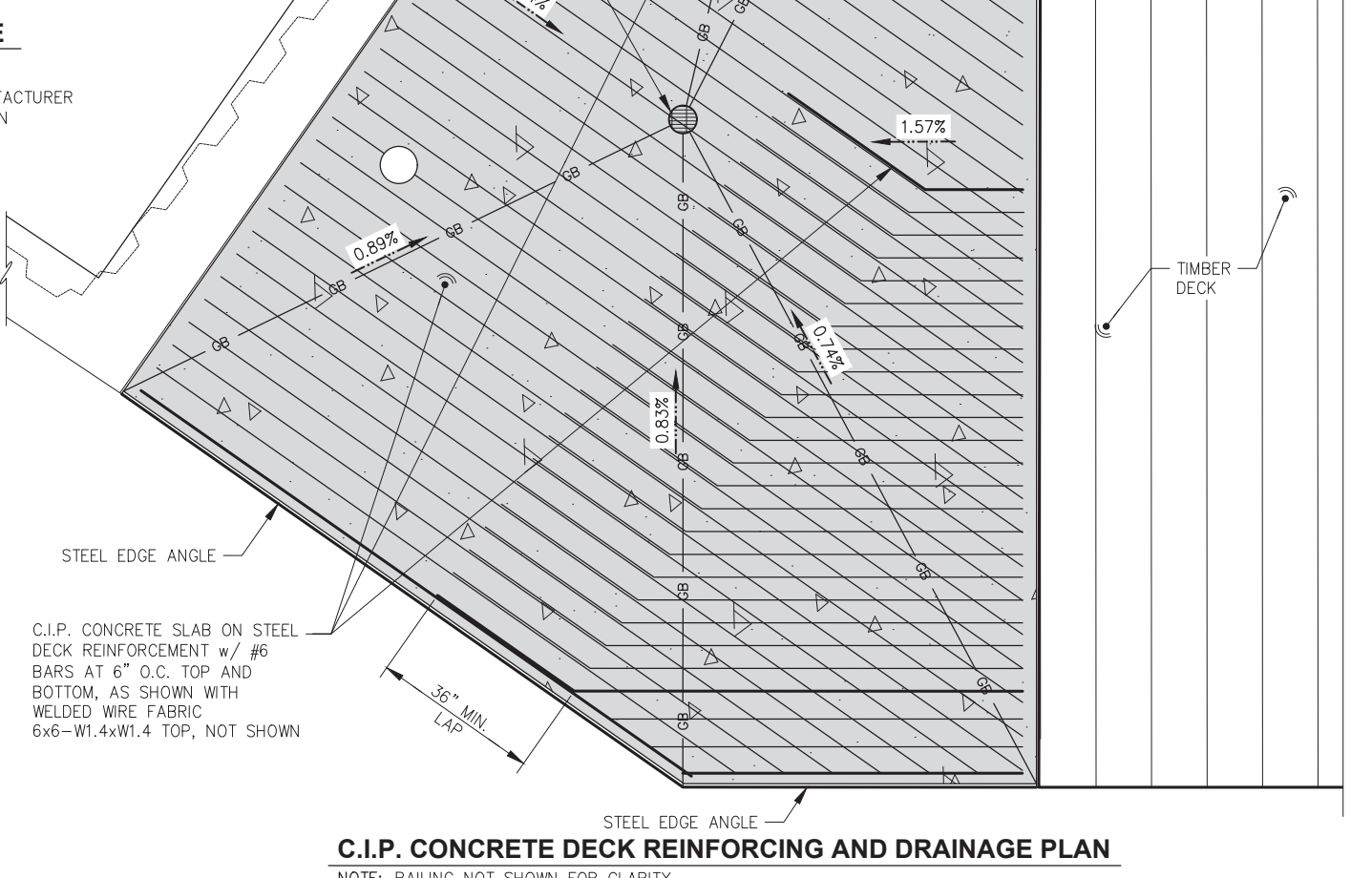
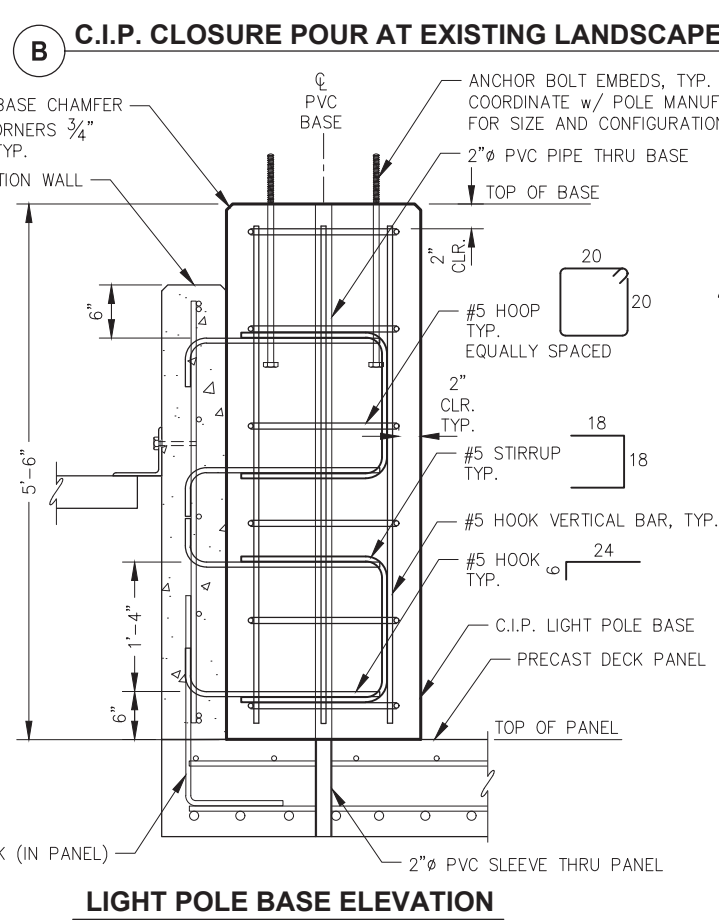
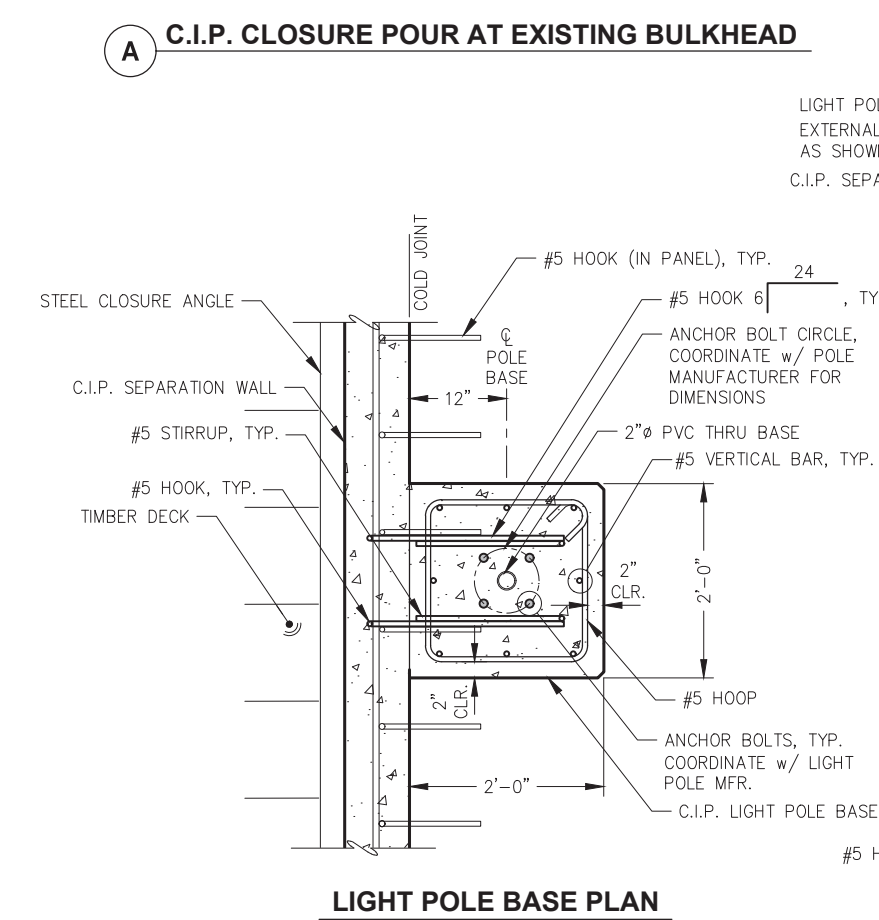
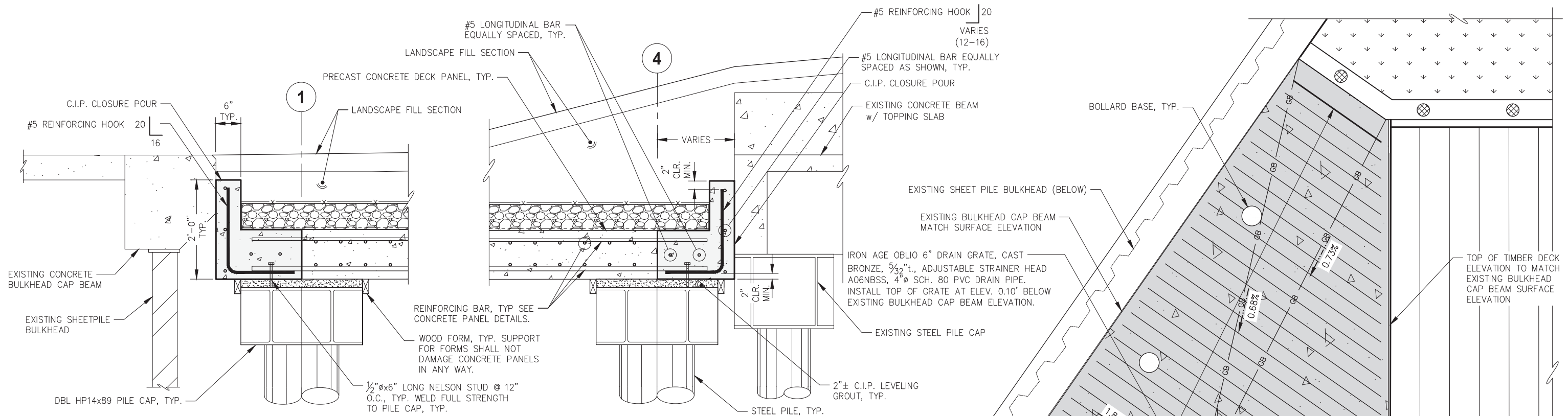
SHEET TITLE:

CONCRETE WALL DETAILS

S110

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250



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SCALE: AS SHOWN

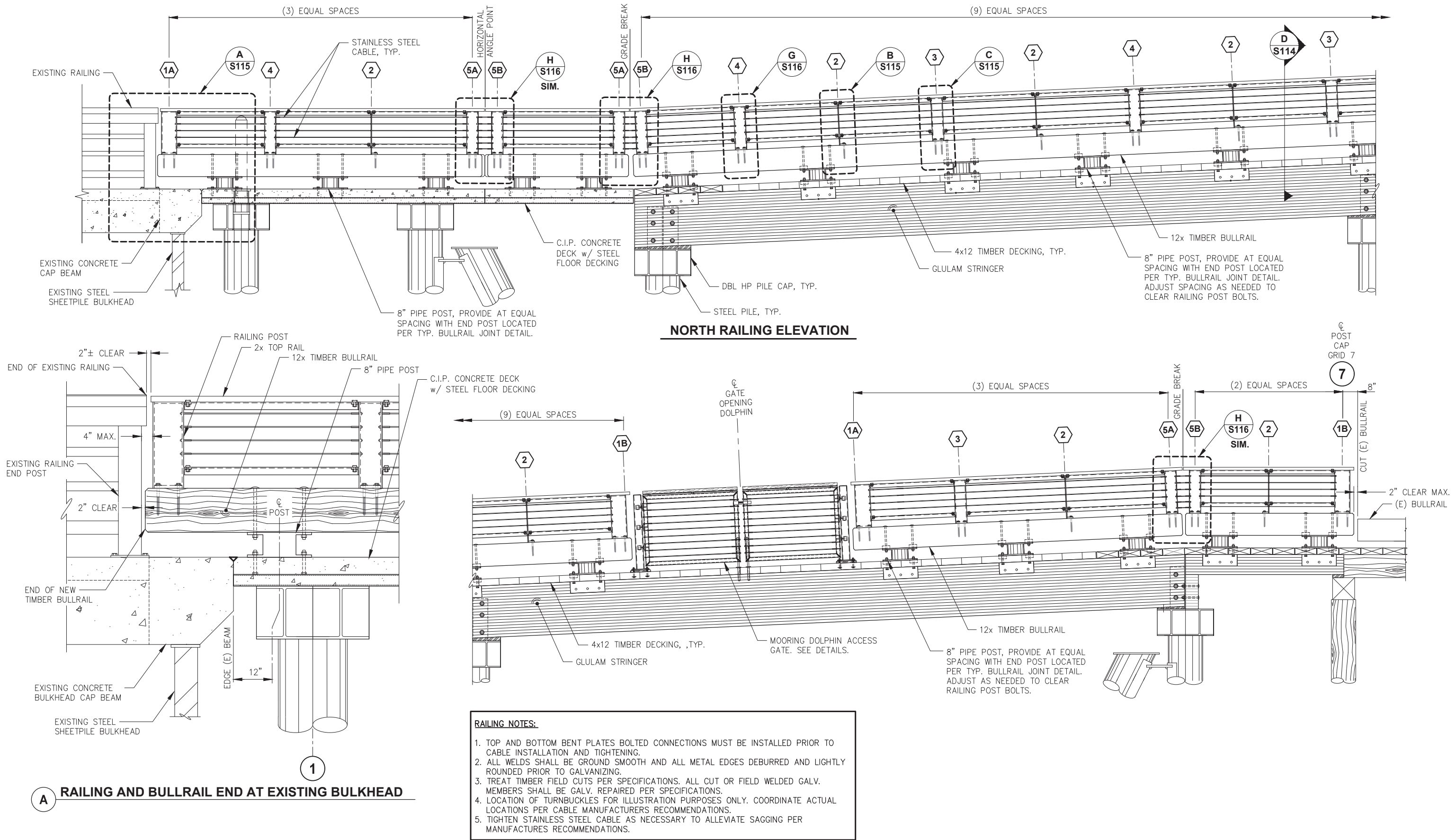


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
CONCRETE DECK PANEL DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

S112



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DRAWN: WRB APPROVED: JLD

SCALE:
AS SHOWN

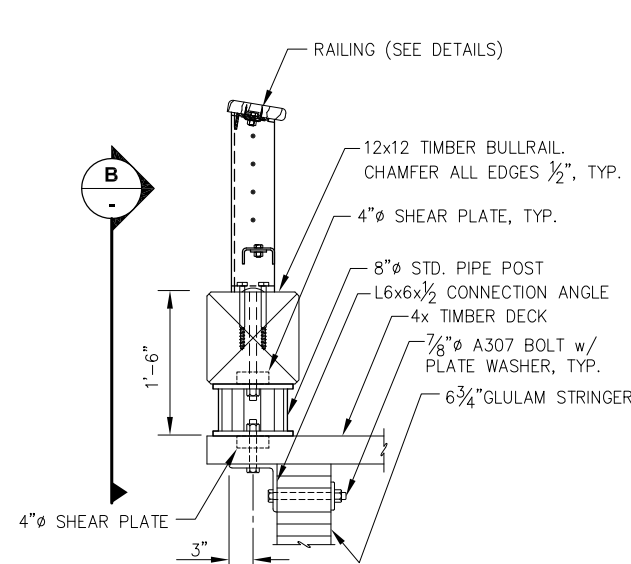


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
**CABLE STRAND RAILING
ELEVATION**

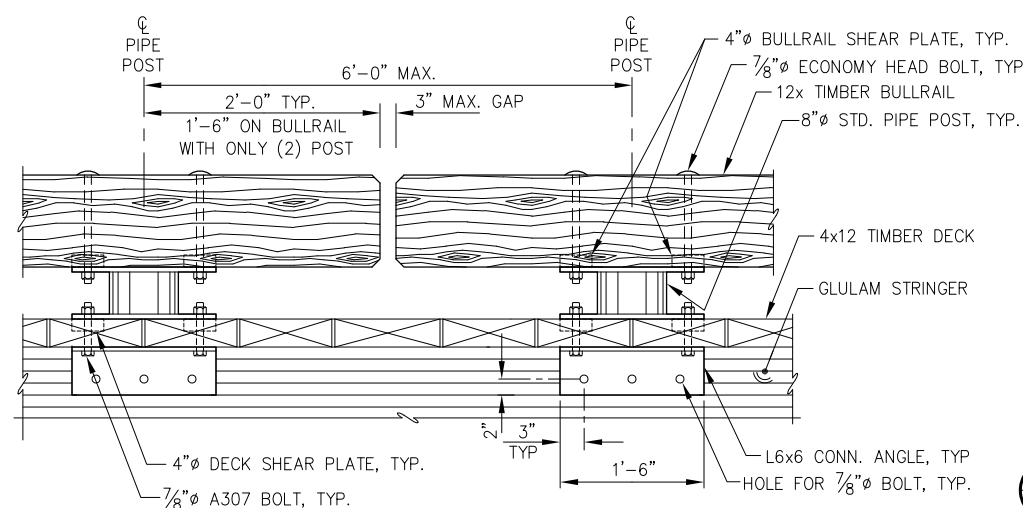
S113

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

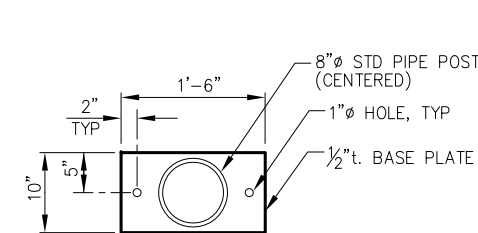


TYPICAL BULLRAIL SECTION

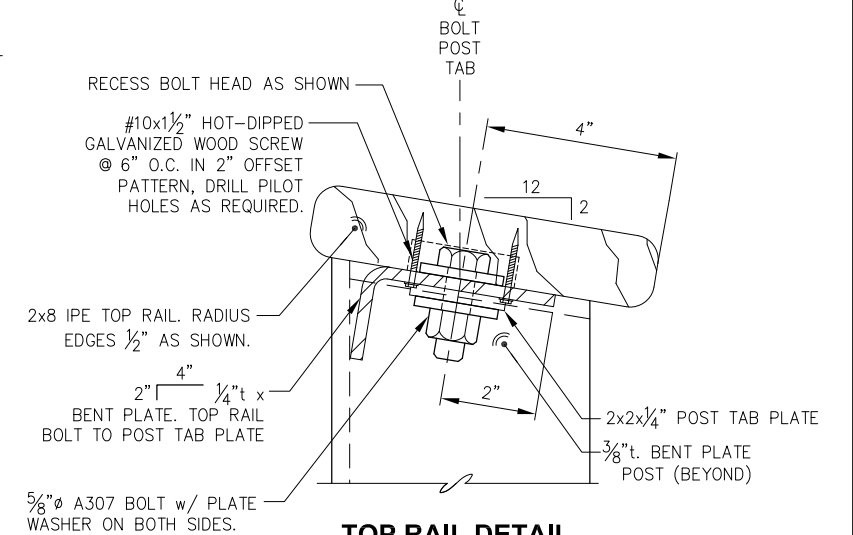
NOTE: ALL BULLRAIL CONNECTION BOLTS SHALL BE 7/8" UNLESS OTHERWISE NOTED.



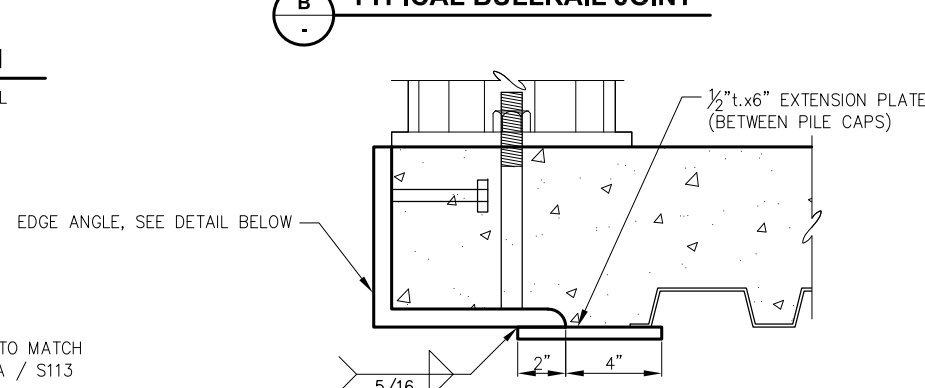
TYPICAL BULLRAIL JOINT



BULLRAIL PIPE POST

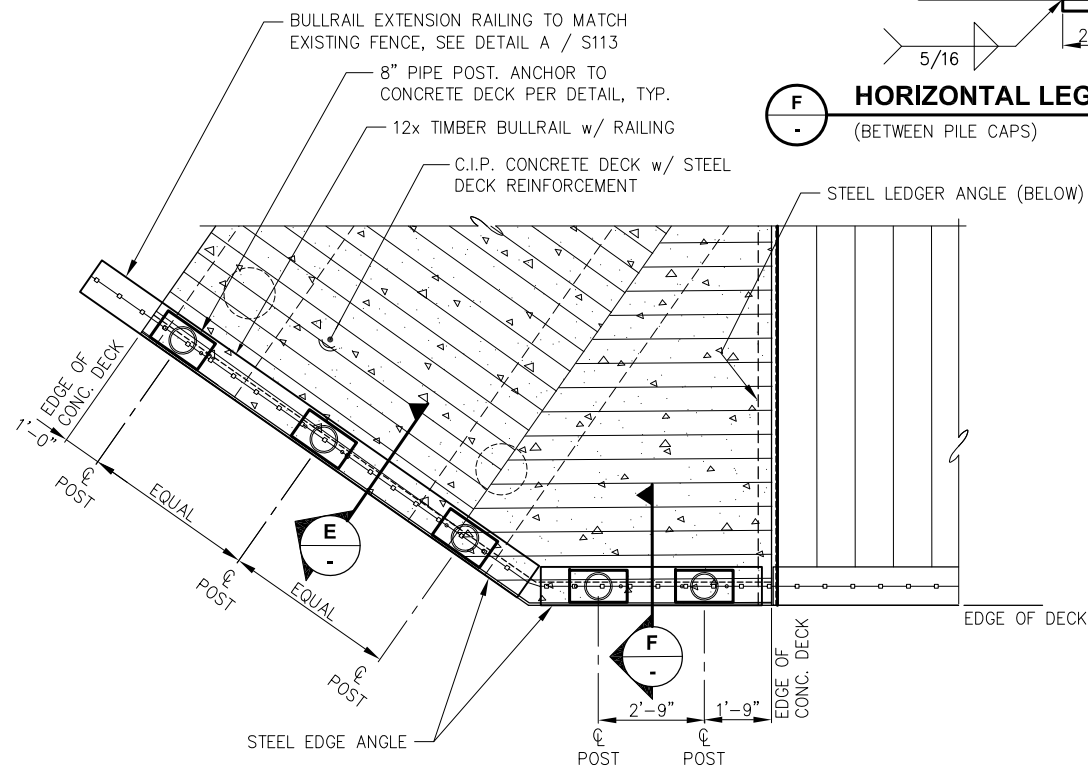


TOP RAIL DETAIL

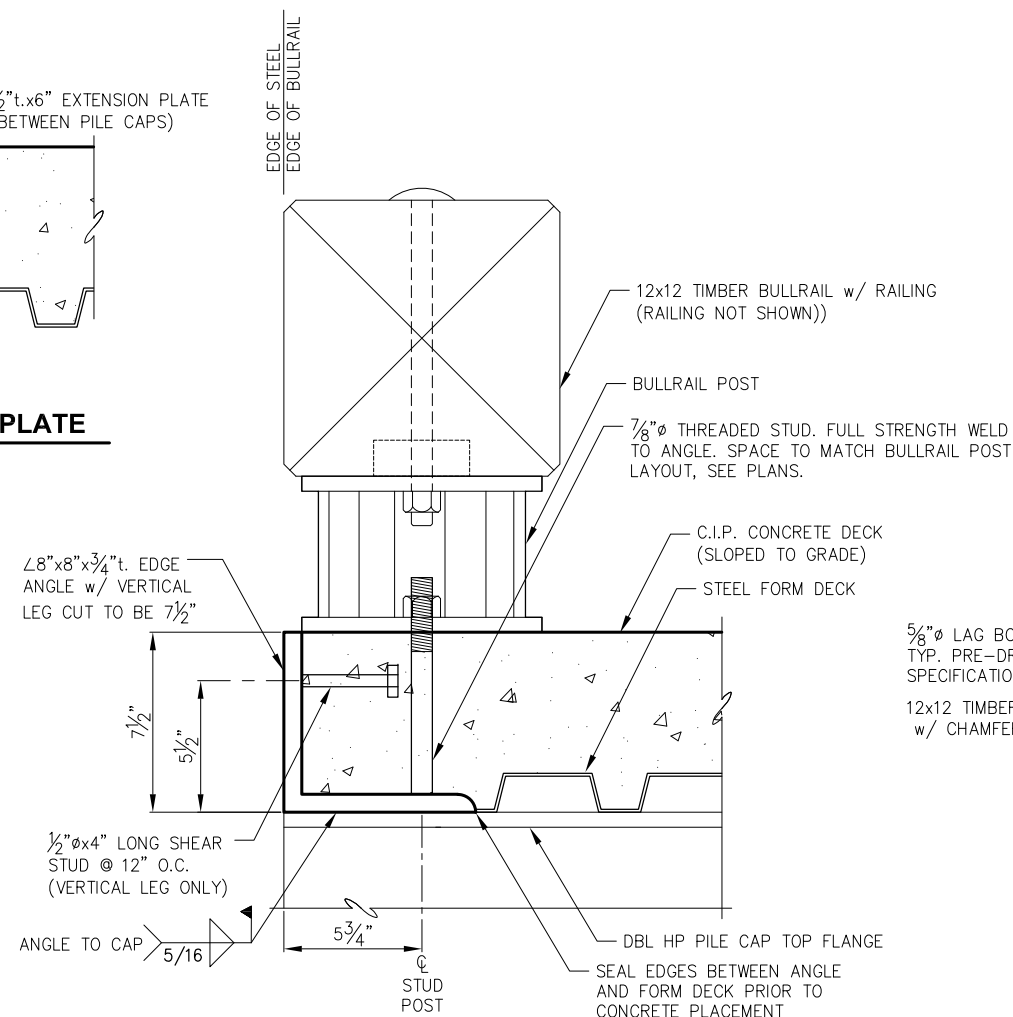


HORIZONTAL LEG EXTENSION PLATE

(BETWEEN PILE CAPS)

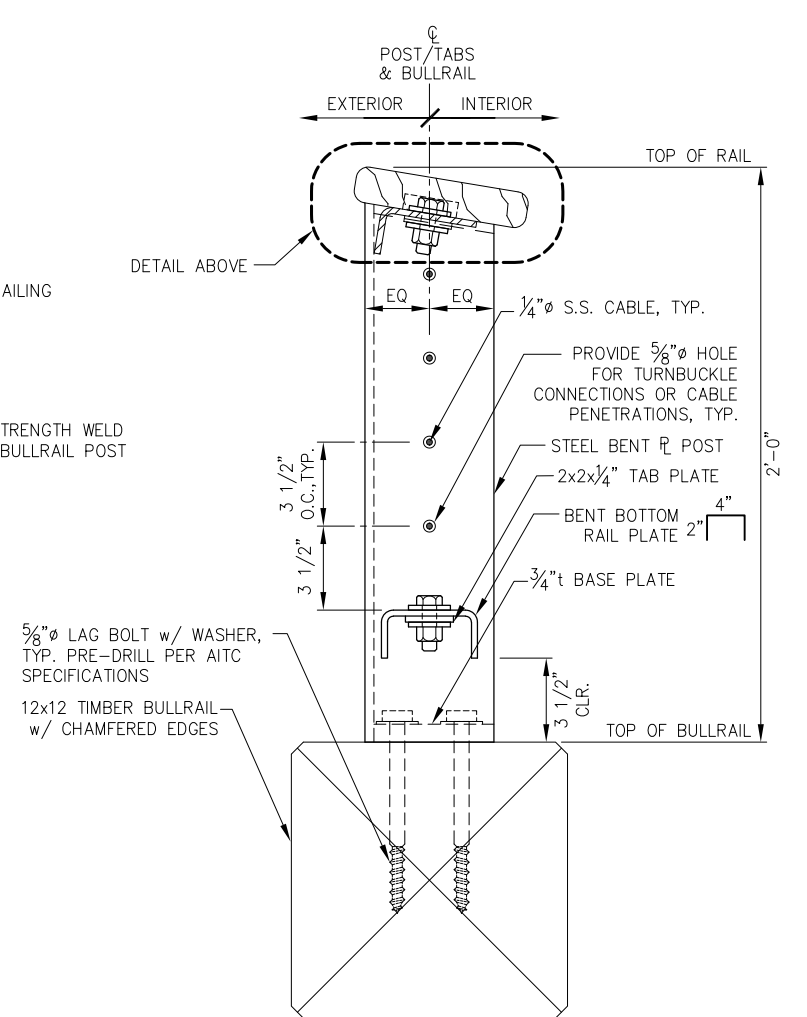


BULLRAIL PIPE POST IN CONCRETE DECK - PLAN



EDGE OF C.I.P. DECK - SECTION

(AT PILE CAP) - SEE HORIZONTAL LEG EXTENSION DETAIL FOR SECTION BETWEEN PILE CAP



TYPICAL POST SECTION



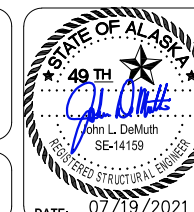
REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.

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SCALE:
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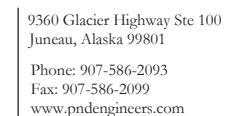
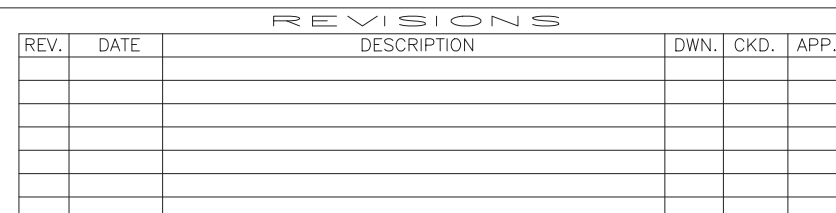


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
CABLE STRAND RAILING
DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

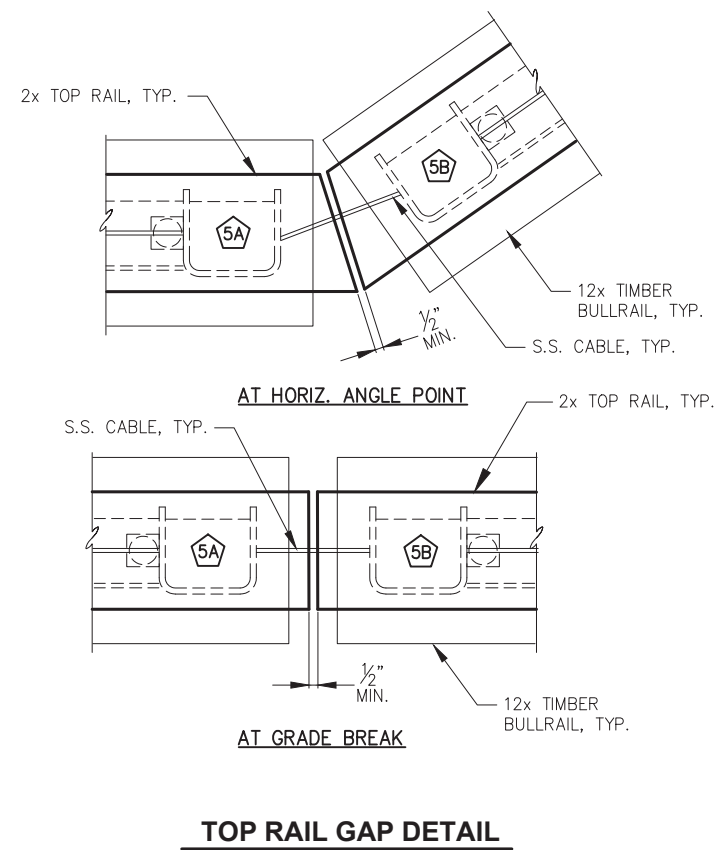
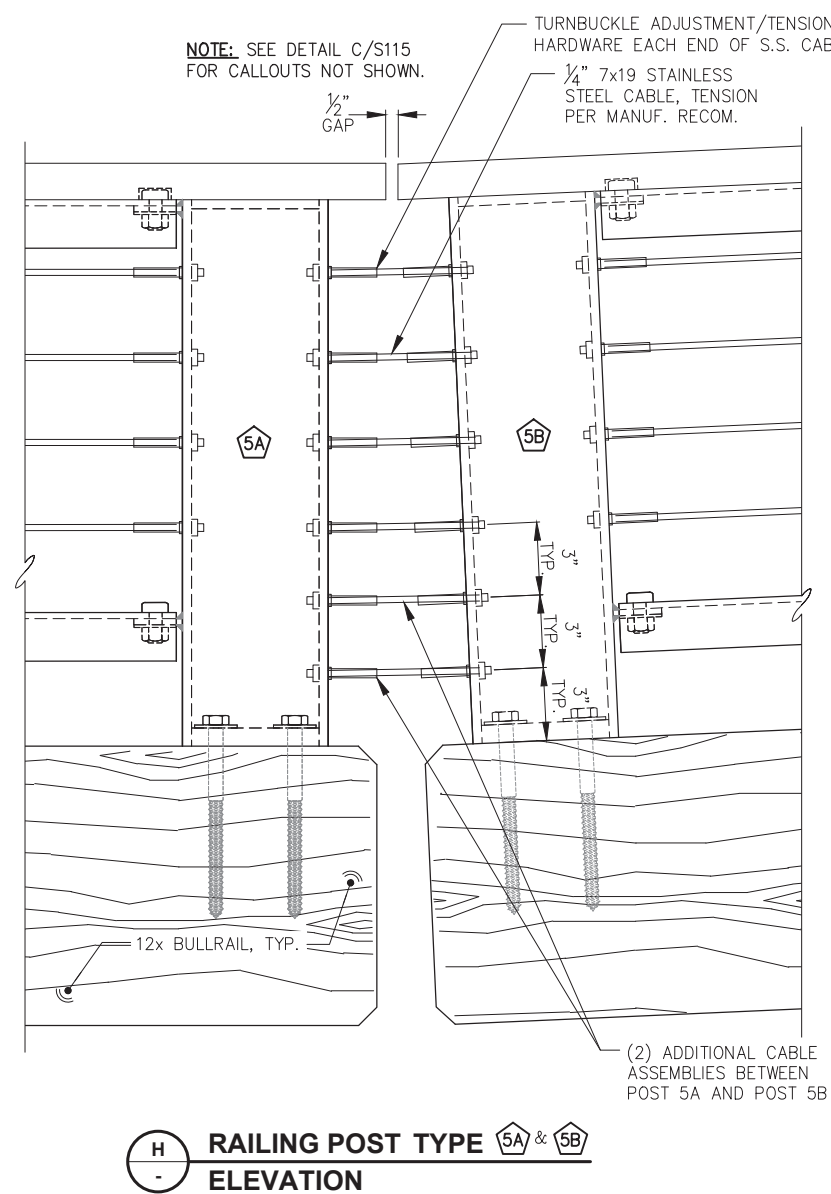
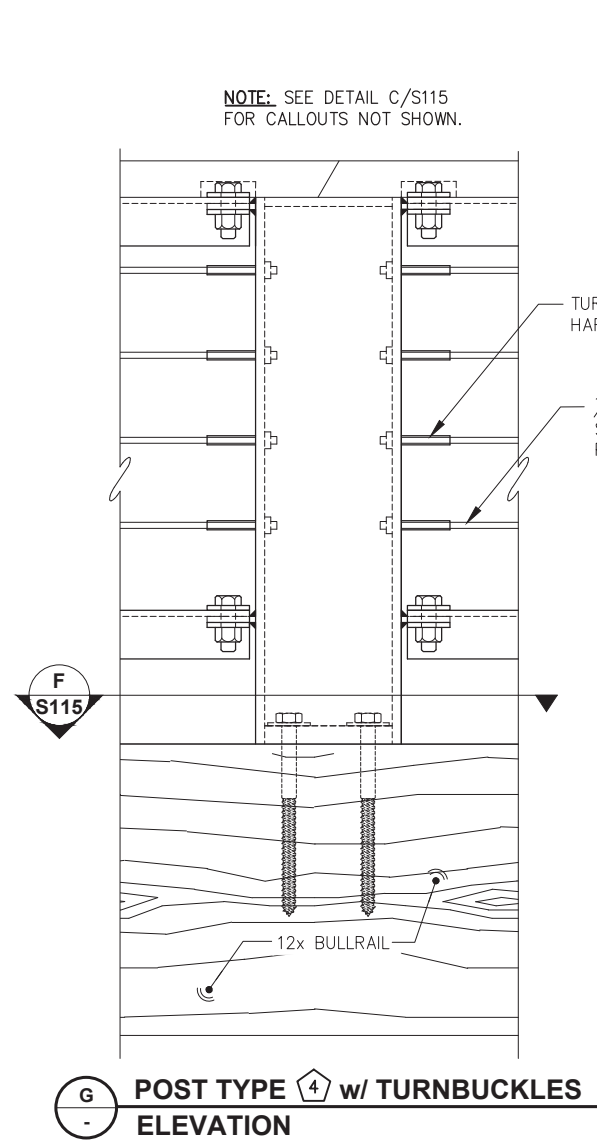
S114



SHEET TITLE:
**CABLE STRAND RAILING
DETAILS**

C.A.N. NO.: AFCC250

S115



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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DESIGN: JLD
DRAWN: WRB

CHECKED: JLD
APPROVED: JLD

SCALE:
AS SHOWN



CITY & BOROUGH OF JUNEAU, ALASKA

MARINE PARK DECKOVER

CBJ CONTRACT NO. BE21-203

SHEET TITLE:

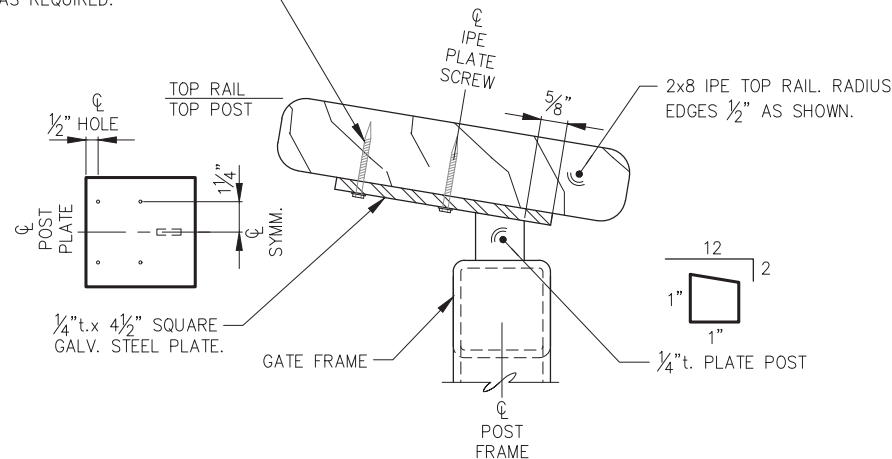
CABLE STRAND RAILING DETAILS

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250

S116

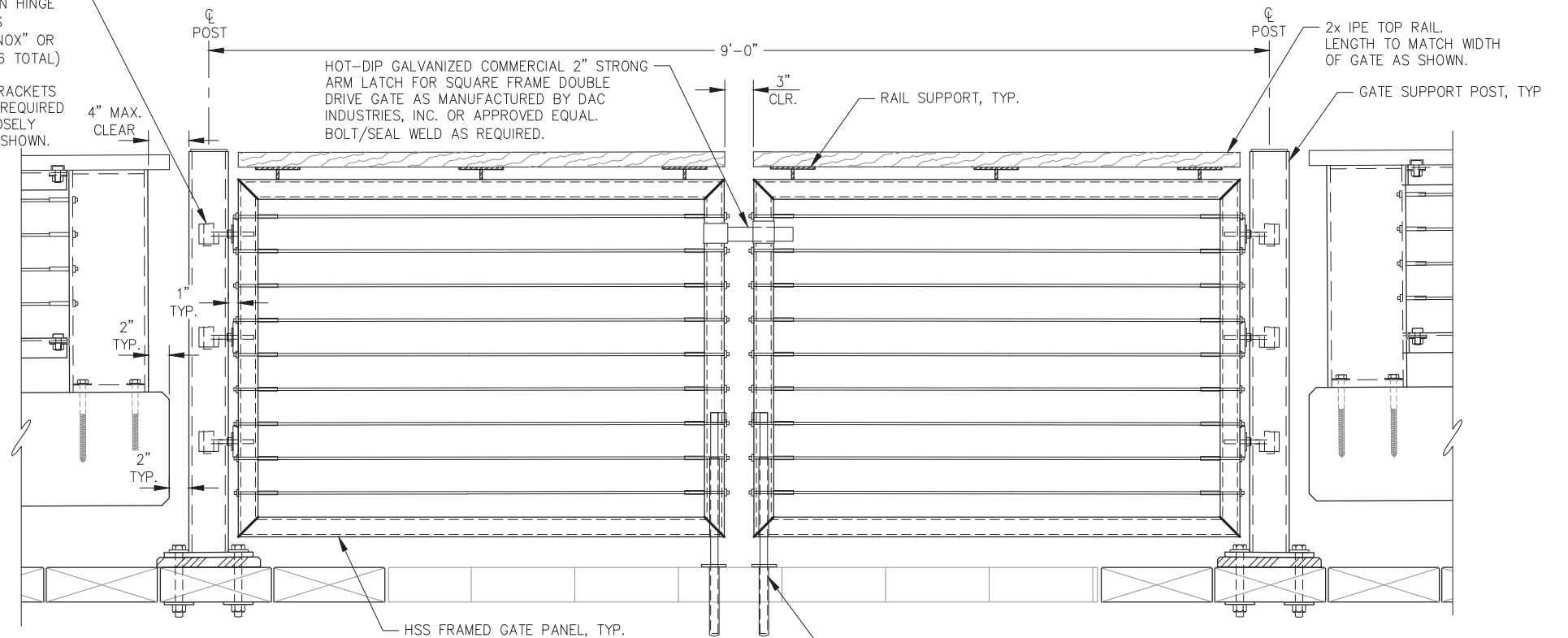
#10x1½" HOT-DIPPED GALVANIZED WOOD SCREW, TYP. DRILL PILOT HOLES AS REQUIRED.



GATE TOP RAIL SUPPORT

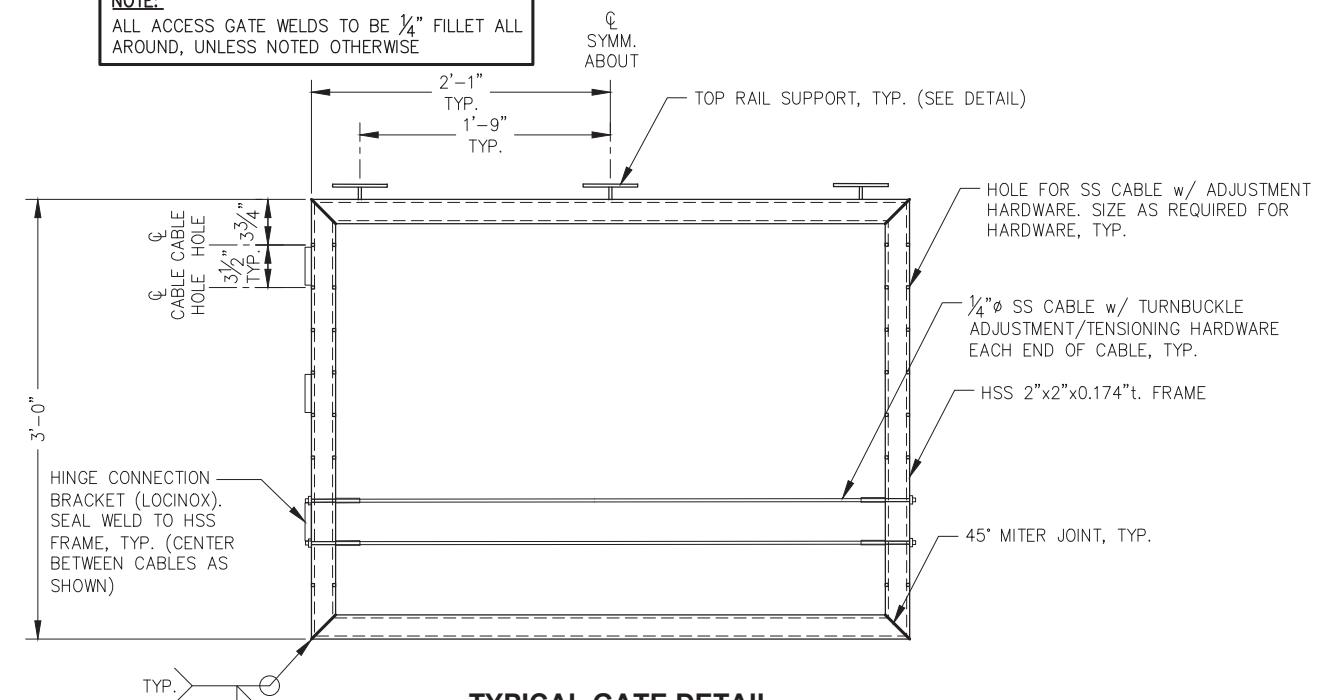
4-WAY ADJUSTABLE, HOT-DIP GALVANIZED 180° WELD-ON HINGE w/ BEARING EYE BOLT AS MANUFACTURED BY "LOCINOX" OR APPROVED EQUAL, TYP. (6 TOTAL)

****NOTE:** LOCATE HINGE BRACKETS VERTICALLY ON POST AS REQUIRED FOR IPE TOP RAIL TO CLOSELY MATCH TOP OF POST AS SHOWN.



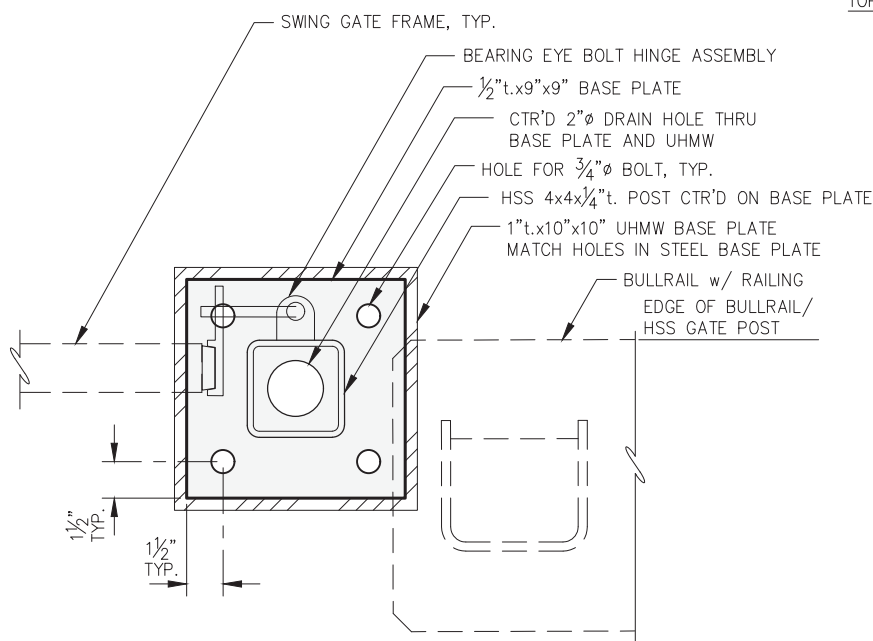
DOUBLE SWING ACCESS GATE - ELEVATION

NOTE:
ALL ACCESS GATE WELDS TO BE ¼" FILLET ALL AROUND, UNLESS NOTED OTHERWISE

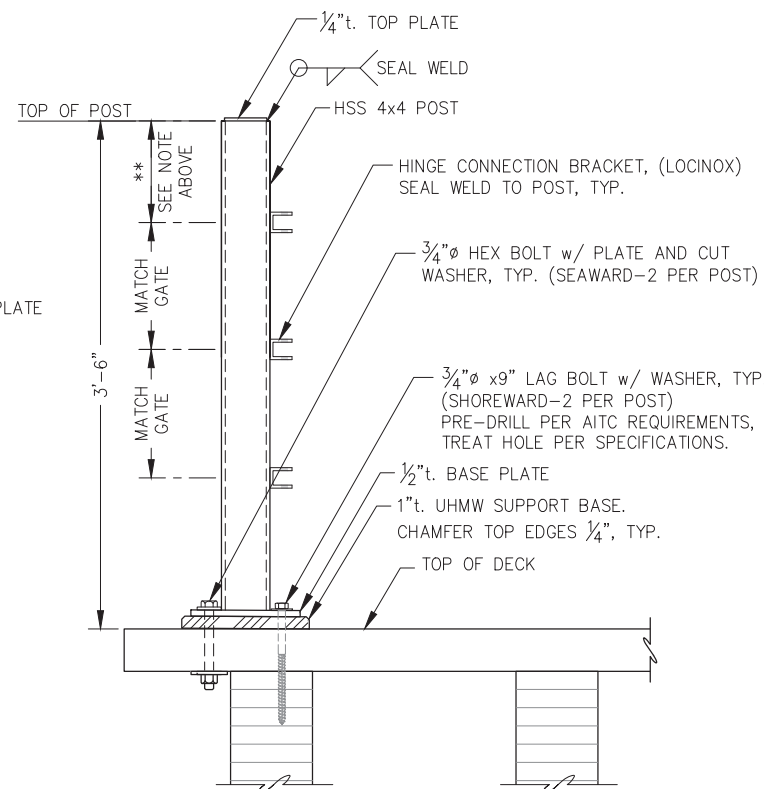


TYPICAL GATE DETAIL

NOTE: NOT ALL CABLES SHOWN FOR CLARITY. LATCH AND DROP BOLT ATTACHMENT NOT SHOWN. LOCATE AND INSTALL AS SHOWN DOUBLE SWING ACCESS GATE - ELEVATION.



BASE PLATE - GATE SUPPORT POST



GATE SUPPORT POST - ELEVATION

NOTE: SEE DOUBLE SWING ACCESS GATE - ELEVATION FOR GATE SUPPORT POST LOCATION, (2) TOTAL REQ'D.

REVISIONS

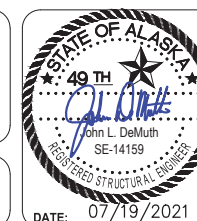
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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SCALE: NTS

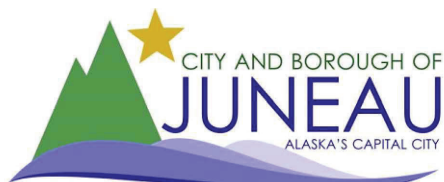


CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
EXISTING MOORING DOLPHIN MODIFICATIONS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

S117

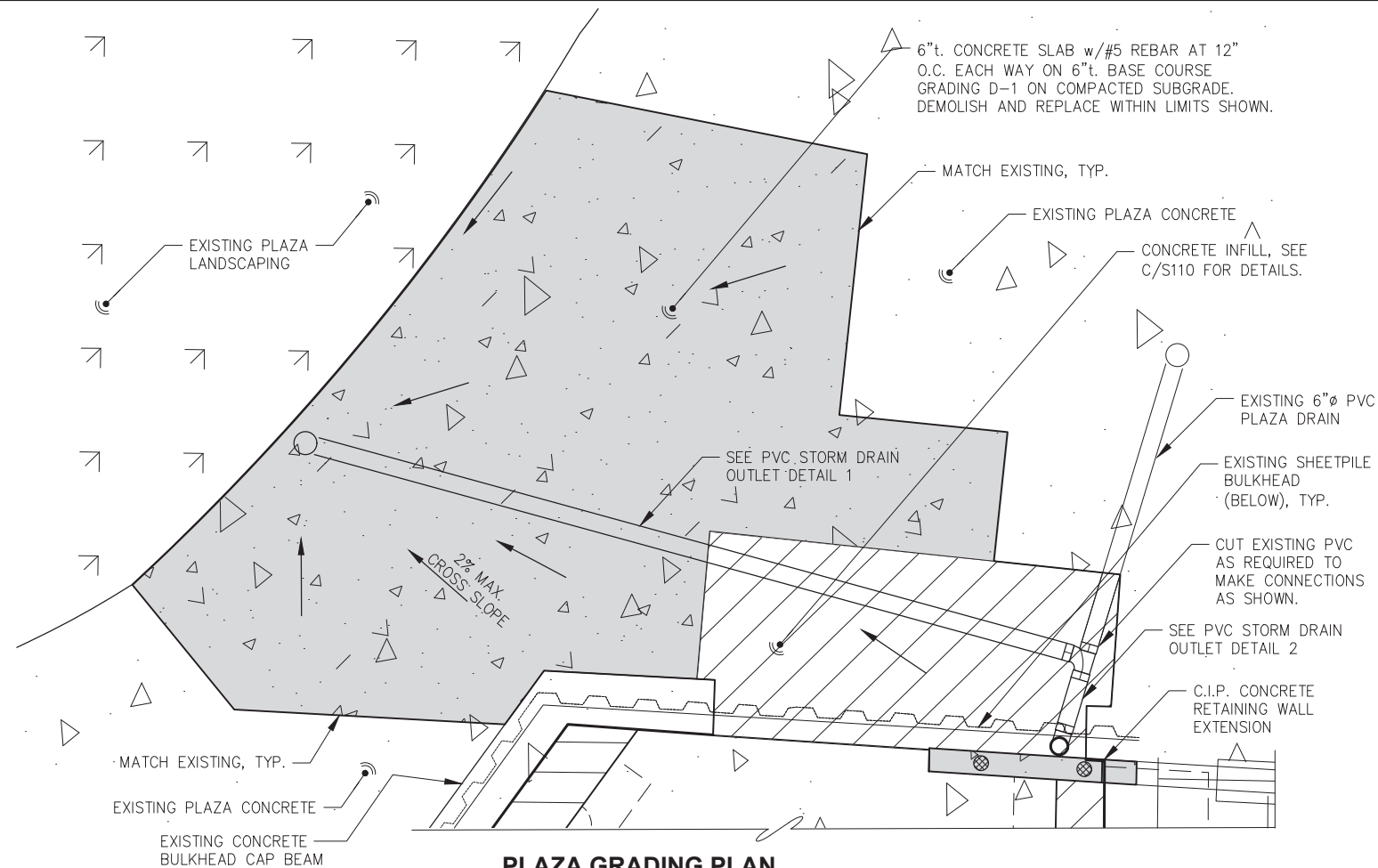




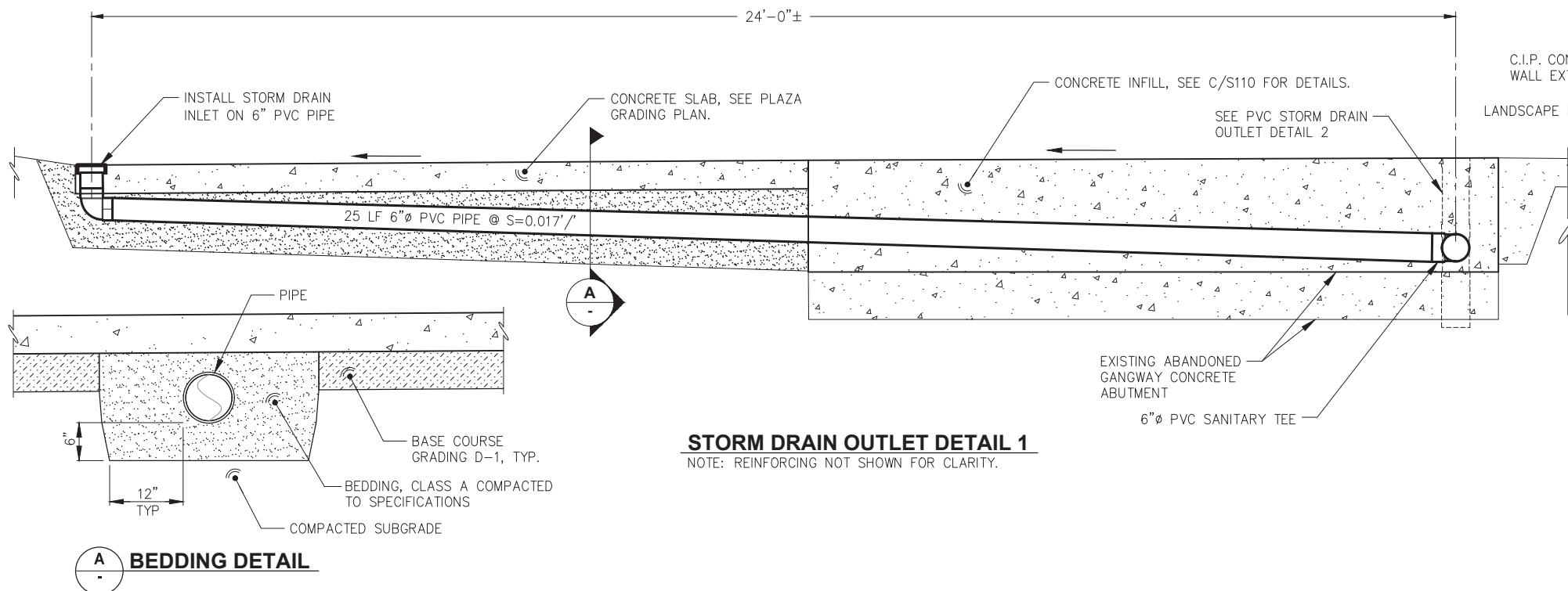
DEMOLISH ALONG EXISTING JOINTS, UNO.

DEMOLITION LIMITS PHOTO

SAWCUT THIS LINE PERPENDICULAR TO EDGE

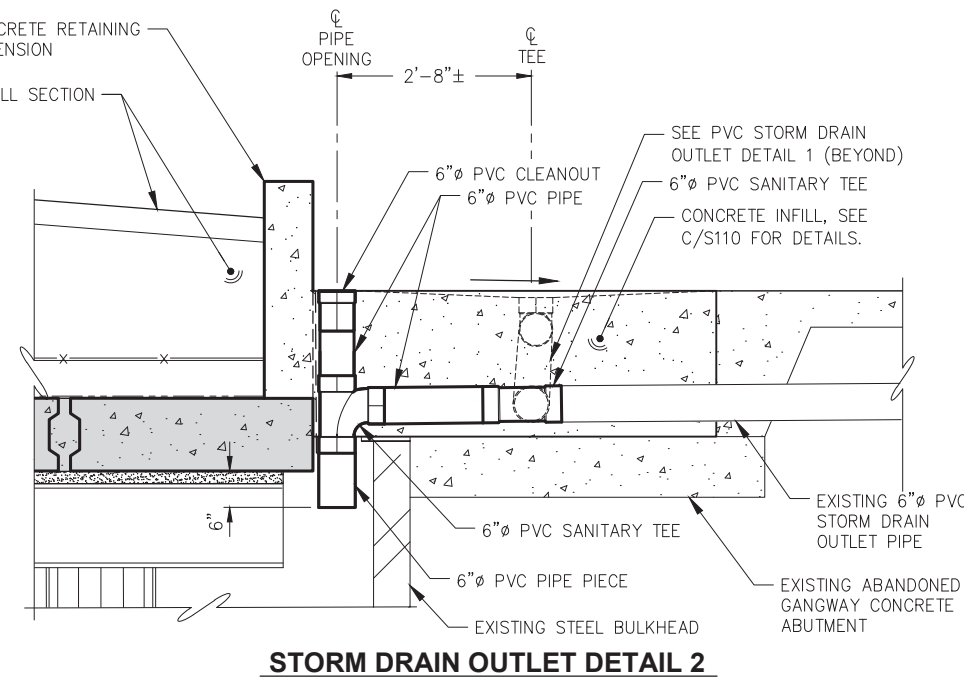


PLAZA GRADING PLAN

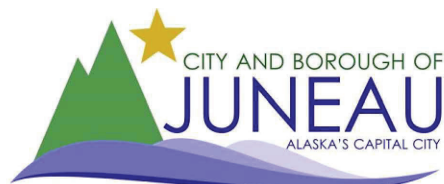


STORM DRAIN OUTLET DETAIL 1
NOTE: REINFORCING NOT SHOWN FOR CLARITY.

BEDDING DETAIL



STORM DRAIN OUTLET DETAIL 2



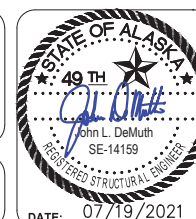
REVISIONS					
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SCALE:
AS SHOWN



CITY & BOROUGH OF JUNEAU, ALASKA
MARINE PARK DECKOVER
CBJ CONTRACT NO. BE21-203

SHEET TITLE:
GRADING AND DRAINAGE
DETAILS

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

S118

Jul 15, 2021 - 2:39pm
G:\Shared drives\Projects\137 PND\127 Marine Park Drawings\Working\E1.dwg (E1 tab)

LEGEND

SHEET NOTE SYMBOLS:

- (E) EXISTING TO REMAIN
(N) NEW
(R) RELOCATE EXISTING
(X) REMOVE EXISTING

SERVICE EQUIPMENT:

- (H) HANDHOLE

POWER:

- (J) JUNCTION BOX
(C) CONDULET OR CONDUIT BODY

SECURITY DEVICES:

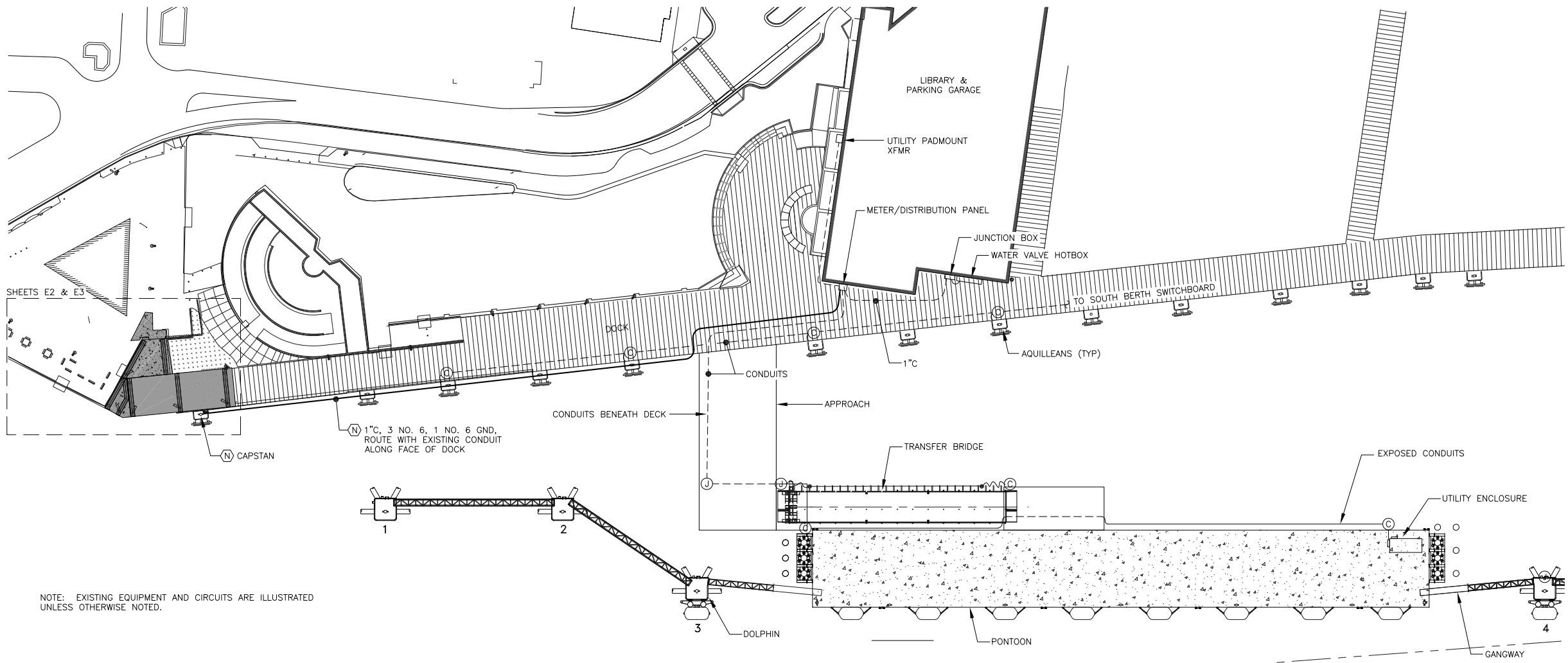
- (C) SECURITY CAMERA

LIGHTING:

- (L) ROUND POLE MOUNTED LUMINAIRE

CONDUIT & CONDUCTORS:

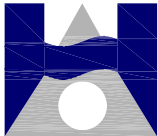
- CONDUIT UNDERGROUND OR BENEATH DECK



NOTE: EXISTING EQUIPMENT AND CIRCUITS ARE ILLUSTRATED UNLESS OTHERWISE NOTED.

1 SITE PLAN - NORTH BERTH

SCALE 0' 20' 40' 80'



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(907) 586-9788

HAIGHT
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SCALE:



DATE:

MARINE PARK DECKOVER
CBJ CONTRACT NO. CBJ BE21-203

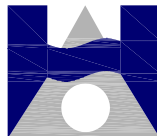
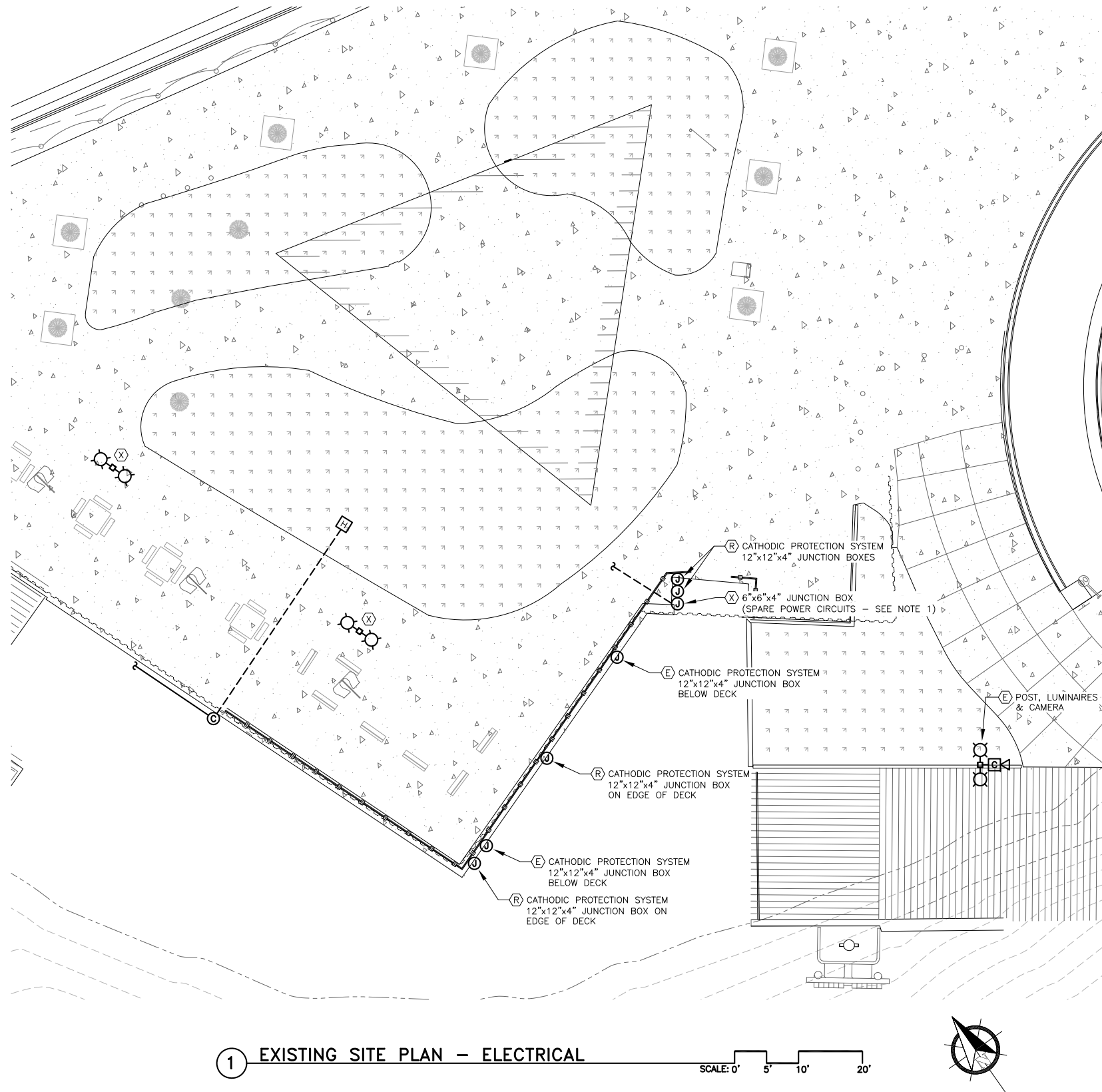
SHEET TITLE:
SITE PLAN - NORTH
BERTH

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250

E1

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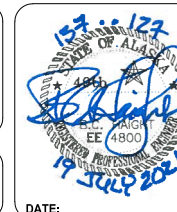


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DESIGN: BCH CHECKED: BCH
DRAWN: PEL APPROVED:

SCALE:



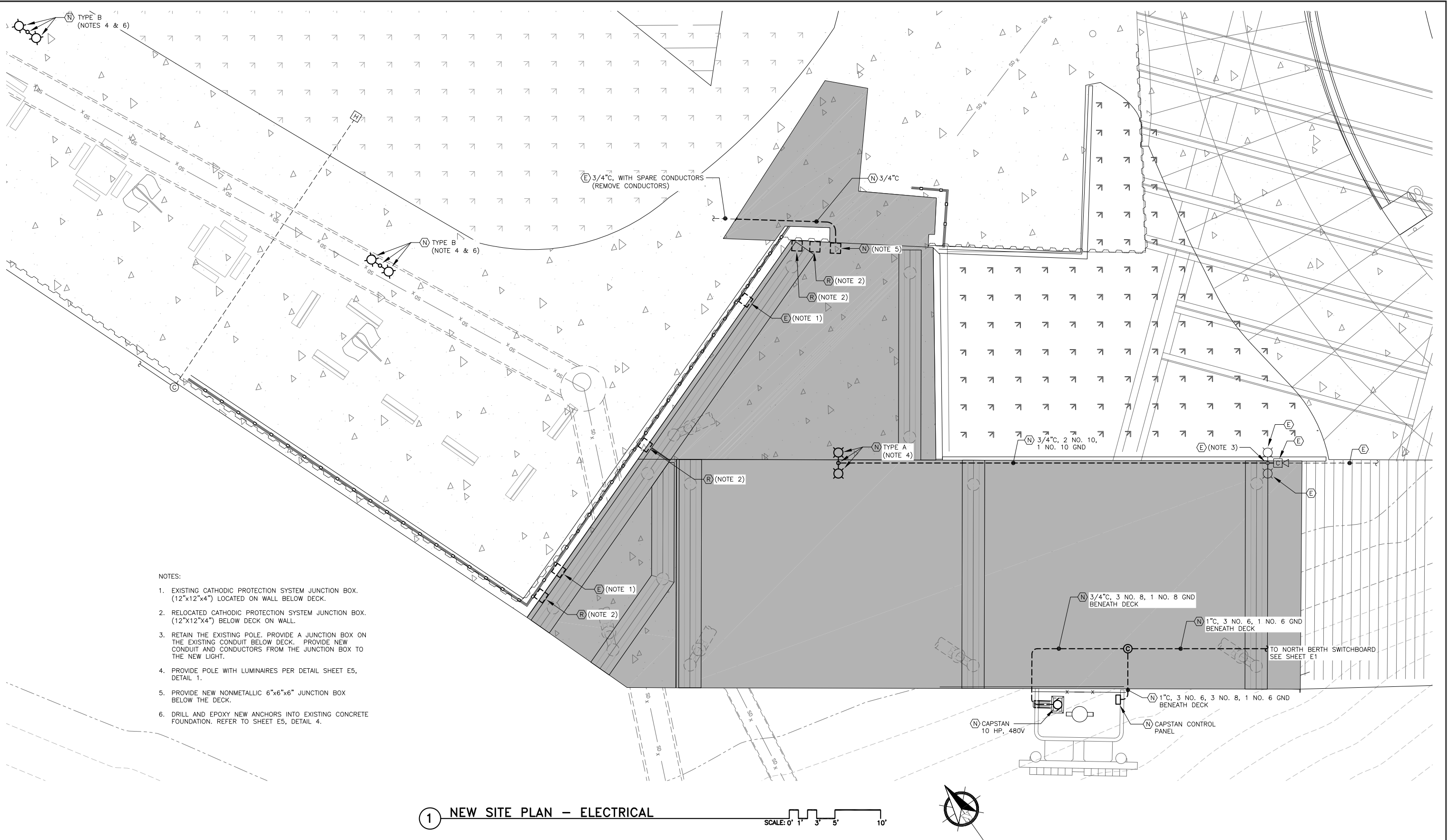
MARINE PARK DECKOVER
CBJ CONTRACT NO. CBJ BE21-203

SHEET TITLE:
**EXISTING SITE PLAN
ELECTRICAL**

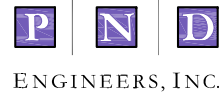
PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

E2

Jul 15, 2021 -- 2:38pm
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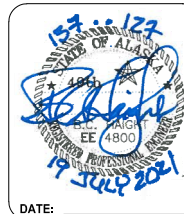
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DESIGN: BCH CHECKED: BCH
DRAWN: PEL APPROVED:

SCALE:



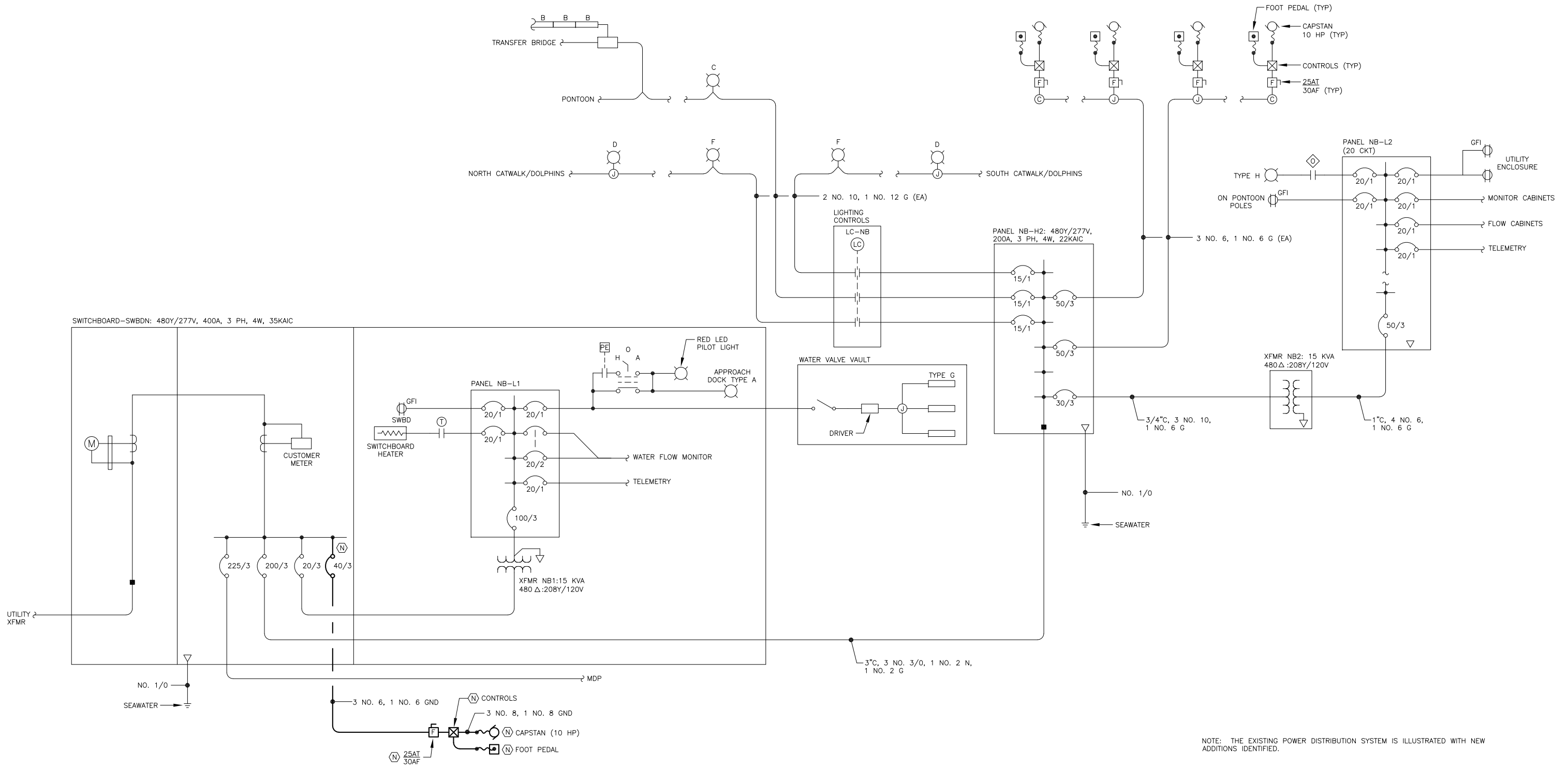
MARINE PARK DECKOVER
CBJ CONTRACT NO. CBJ BE21-203

SHEET TITLE:
NEW SITE PLAN
ELECTRICAL

PND PROJECT NO.: 192091 C.A.N. NO.: AECC250

E3

Jul 15, 2021 -- 2:37pm
G:\Shared drives\Projects\137 PND\127 Marine Park\Drawings\Working\E4.dwg (E4 tab)



1 SINGLE LINE DIAGRAM - NORTH BERTH DISTRIBUTION



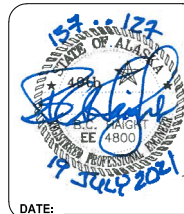
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DESIGN: BCH CHECKED: BCH
DRAWN: PEL APPROVED: _____

SCALE:



DATE:

MARINE PARK DECKOVER
CBJ CONTRACT NO. CBJ BE21-203

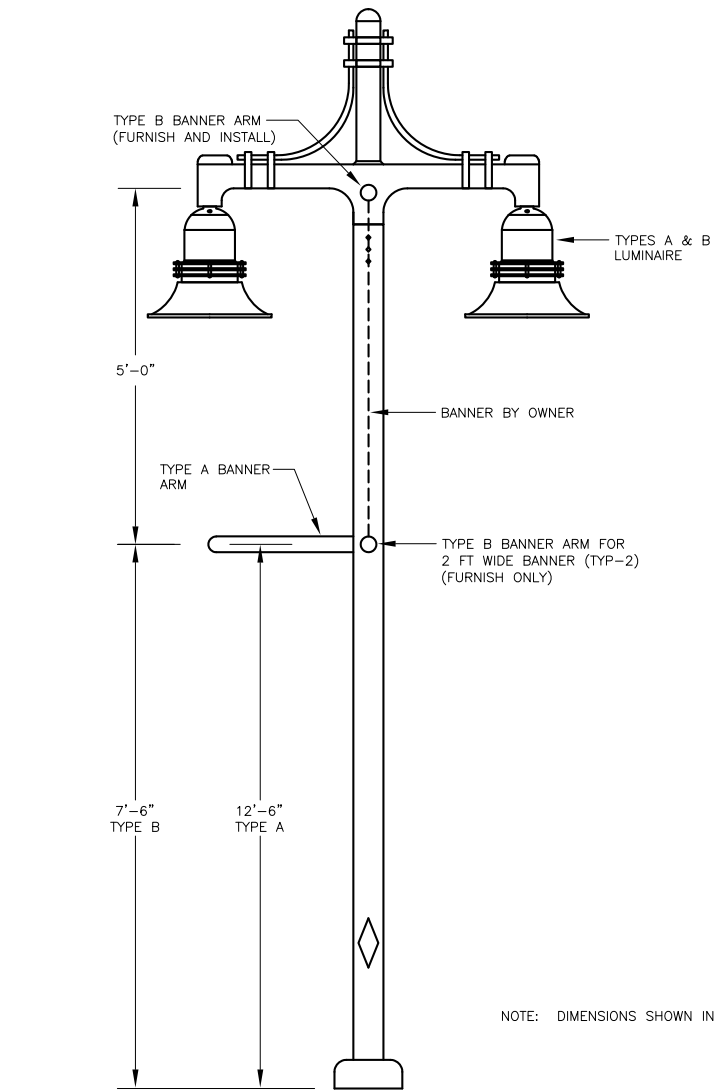
SHEET TITLE:
SINGLE LINE DIAGRAM - NORTH
BERTH DISTRIBUTION

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250

E4

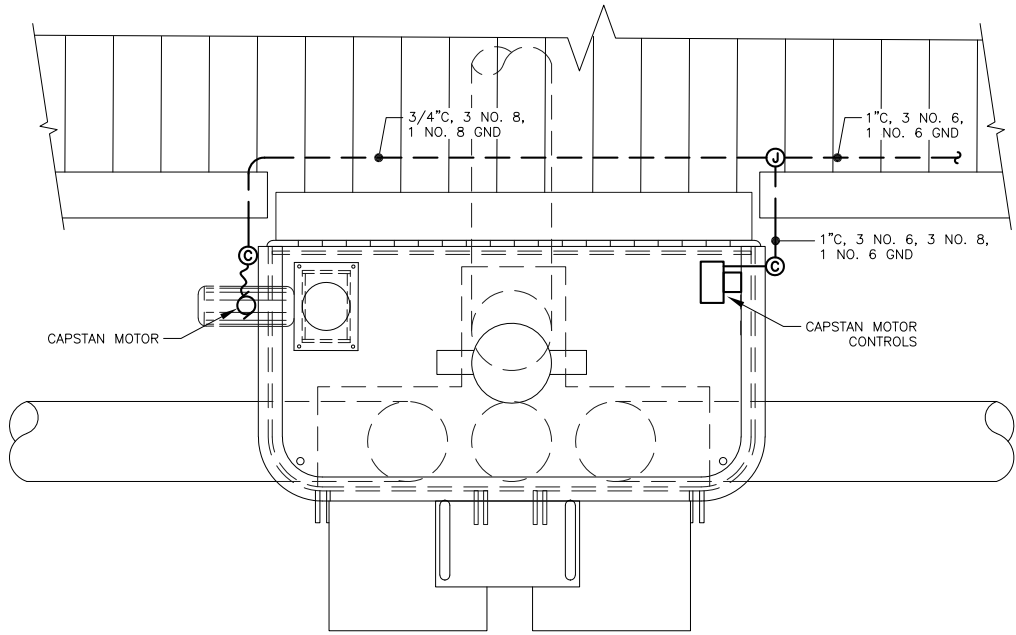
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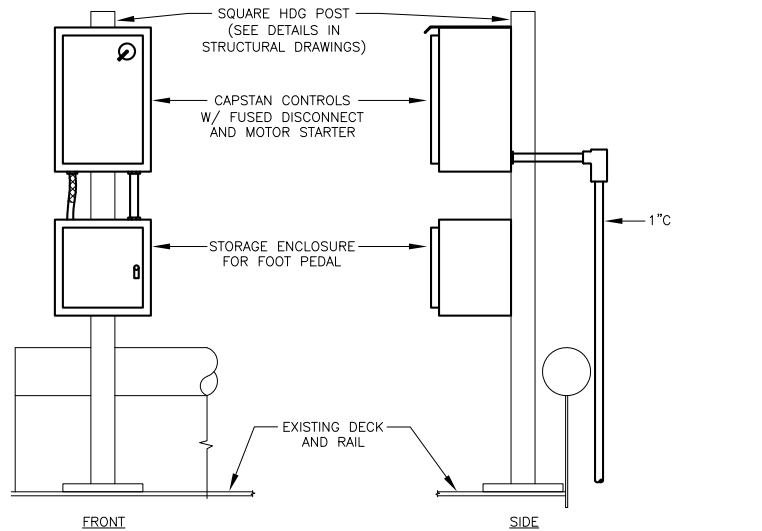
NOTE: DIMENSIONS SHOWN IN DETAIL ARE FOR THE BANNER ARMS.

1 DETAIL LIGHT POLE
SCALE: 0 6" 1' 2' 4'

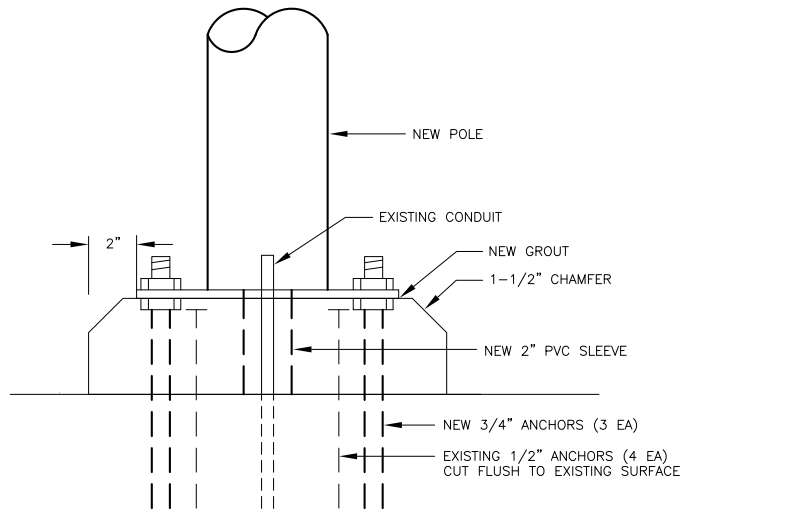
LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	POLE MOUNTED DECORATIVE LED AREA LIGHT, CAST ALUMINUM TOP HOUSING, SOLID RINGS MID SECTION, FLUTE ALUMINUM SHADE, FLAT FROSTED GLASS LENS, TYPE IV DISTRIBUTION, TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED UPPER BAR, INTEGRAL ELECTRONIC DRIVER, 120-277V, 2823 LUMENS. 20'H x 5" DIA ROUND STRAIGHT GALVANIZED STEEL POLE WITH POWDER COAT FINISH TO MATCH, HARTFORD GREEN FINISH.	LUMINAIRE: INVUE MODEL NO. EMM-E01-LED-E1-SL4-SR-FL-GN-8030-VA6160-GN POLE: INVUE MODEL NO. ARX-5-T-20-N-GN-4	25W WHITE LED 3000K, CRI 80	
B	POLE MOUNTED DECORATIVE LED AREA LIGHT, CAST ALUMINUM TOP HOUSING, SOLID RINGS MID SECTION, FLUTE ALUMINUM SHADE, FLAT FROSTED GLASS LENS, TYPE IV DISTRIBUTION, TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED UPPER BAR, INTEGRAL ELECTRONIC DRIVER, 120-277V, 2823 LUMENS. 14'H X 5" DIA ROUND STRAIGHT GALVANIZED STEEL POLE WITH POWDER COAT FINISH TO MATCH, HARTFORD GREEN FINISH.	LUMINAIRE: INVUE MODEL NO. EMM-E01-LED-E1-SL4-SR-FL-GN-8030-VA6160-GN POLE: INVUE MODEL NO. ARX-5-T-14-N-GN-4	25W WHITE LED 3000K, CRI 80	PROVIDE BANNER BRACKET ARMS ON BOTH SIDES OF THE POLE.



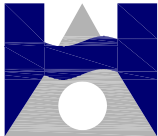
2 PLAN VIEW - CAPSTAN DOLPHIN PLAN
SCALE: 0 1' 2' 4'



3 ELEVATION - CAPSTAN CONTROL POST
SCALE: 0 6" 1' 2'



4 DETAIL - TYPE B POLE BASE
SCALE: 0 3" 6" 12"



526 Main Street, Juneau, AK 99801
(907) 586-9788

HAIGHT
& ASSOCIATES
CONSULTING
ELECTRICAL
ENGINEERS

REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



ENGINEERS, INC.

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DESIGN: BCH
DRAWN: PEL
CHECKED: BCH
APPROVED:

SCALE:



MARINE PARK DECKOVER
CBJ CONTRACT NO. CBJ BE21-203

SHEET TITLE:

DETAILS

E5

PND PROJECT NO.: 192091

C.A.N. NO.: AECC250