

AURORA HARBOR DRIVE DOWN FLOAT

CBJ CONTRACT NO. DH26-022

Volume 2 of 2

PLANS



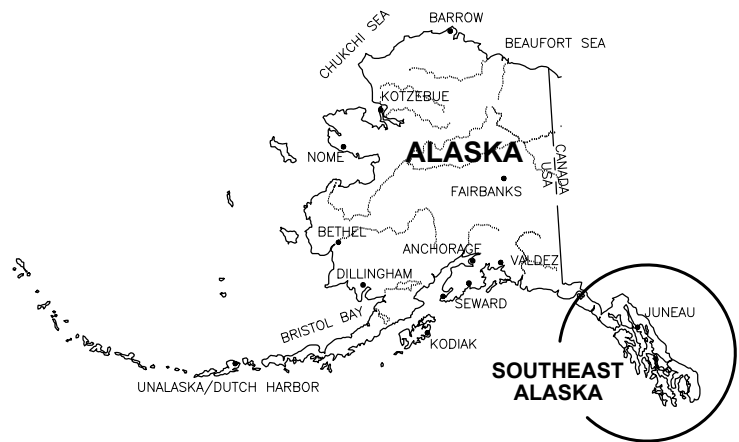
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MAY 11, 2026

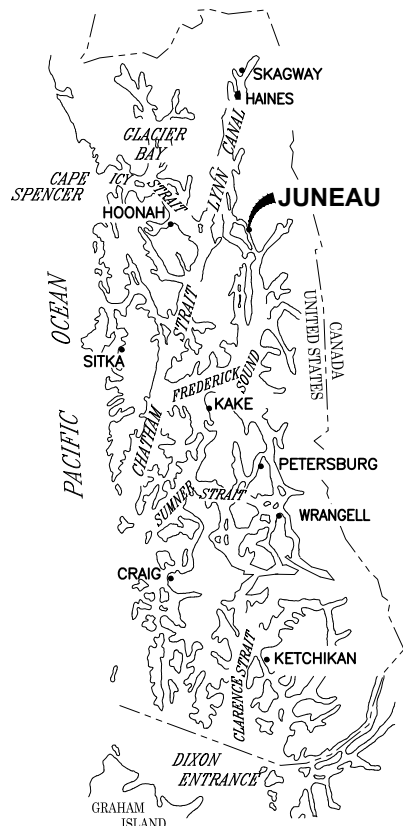
CITY & BOROUGH OF JUNEAU - DOCKS & HARBORS

AURORA HARBOR DRIVE DOWN FLOAT

CBJ CONTRACT - DH26-022



VICINITY



SOUTHEAST
ALASKA

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PROJECT
LOCATION

VICINITY MAP

AERIAL PHOTO FROM:
CITY AND BOROUGH OF JUNEAU, 2025

TIDAL DATA

SOURCE: NOAA NOS/CO-OPS STATION ID:
9452210 JUNEAU, ALASKA 2/6/18

DESCRIPTION	ELEV. (FT.)
HIGHEST OBSERVED WATER LEVEL	+24.58
HIGH TIDE LINE (HTL)	+20.59
MEAN HIGHER HIGH WATER (MHHW)	+16.30
MEAN HIGH WATER (MHW)	+15.34
MEAN SEA LEVEL (MSL)	+8.58
MEAN TIDE LEVEL (MTL)	+8.47
MEAN LOW WATER (MLW)	+1.60
MEAN LOWER LOW WATER (MLLW)	0.00
LOWEST OBSERVED WATER LEVEL	-6.12

DRAWING INDEX

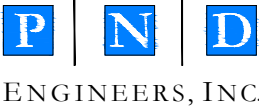
DWG. NO.	TITLE
GENERAL	
G1.01	TITLE SHEET, VICINITY MAP AND DRAWING INDEX
G1.02	LEGEND, ABBREVIATIONS AND GENERAL NOTES
G1.03	EXISTING CONDITIONS AND DEMOLITION PLAN
G1.04	OVERALL SITE PLAN AND PROJECT CONTROL
G1.05	OVERALL PLAN AND PROFILE – BASE BID
G1.06	PILE SCHEDULE AND DETAILS
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C1.02	MODIFIED APPROACH DOCK SECTION AT UPLANDS
APPROACH DOCK	
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S1.02	TYPICAL SECTIONS
S1.03	PILE CAP DETAILS
S1.04	PILE CAP DETAILS
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A1.02	APPROACH DOCK WIDENING PILE LAYOUT AND FRAMING PLAN
A1.03	PILE CAP DETAILS
A1.04	PILE CAP DETAILS
A1.05	STRINGER CONNECTION DETAILS
A2.01	UPLANDS SITE PLAN
A2.02	CONCRETE ABUTMENT SECTION
A2.03	CONCRETE ABUTMENT DETAILS
TRANSFER BRIDGE	
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S2.03	TYPICAL SECTION AND ELEVATION
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S2.06	ABUTMENT PLAN AND ELEVATION
S2.07	END BEAM DETAILS
S2.08	ABUTMENT BEARING DETAILS
S2.09	FLOAT BEARING DETAILS
S2.10	SAFETY CHAIN DETAILS
S2.11	TRANSITION PLATE DETAILS
S2.12	EQUIPMENT SUPPORT DETAILS

DRAWING INDEX

DWG. NO.	TITLE
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S3.02	FRAMING PLAN AND TYPICAL SECTION
S3.03	FLOAT MODULE "A"
S3.04	FLOAT MODULE "A1"
S3.05	FLOAT MODULE "B"
S3.06	FLOAT MODULE "B1"
S3.07	FLOAT MODULE "C"
S3.08	FLOAT MODULE "C1"
S3.09	PILE HOOP DETAILS
S3.10	FLOAT DOCK TRANSITION APRON
S3.11	TYPICAL SECTIONS
S3.12	FLOAT DOCK DETAILS
S3.13	FLOAT DOCK DETAILS
S3.14	BRIDGE SUPPORT BEAM
S3.15	PILE LAYOUT AND MOORING FRAME DETAILS
S3.16	EQUIPMENT SUPPORT DETAILS
S3.17	EQUIPMENT SUPPORT DETAILS
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S4.01	FLOAT UTILITY SHED DETAILS
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U1.01	UTILITY SITE PLAN AND PROFILE
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E2	EXISTING SITE PLAN – ELECTRICAL
E3	SITE PLAN – ELECTRICAL
E4	SINGLE LINE DIAGRAM – OVERALL
E5	ELECTRICAL BUILDING FLOOR PLAN
E6	ELECTRICAL SCHEDULES
E7	DECK MOUNTED PEDESTAL 30A-50A WIRING DIAGRAM
E8	DECK MOUNTED PEDESTAL 30A-50A-100A EXTERIOR VIEW
E9	HEAT TRACE JUNCTION BOX DETAIL
E10	GFPE DETAILS



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DESIGN
REVIEW

DATE: 05/08/2025

CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
TITLE SHEET, VICINITY MAP
AND DRAWING INDEX

PND PROJECT #: 252065 C.A.N. NO.: AECC250

G1.01

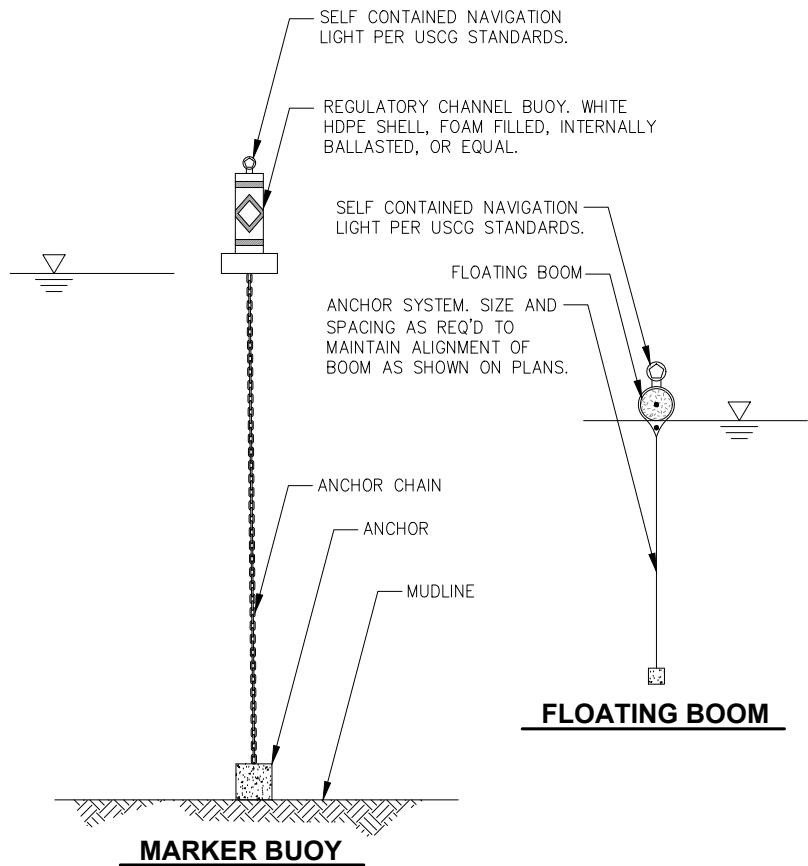
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GENERAL NOTES

- PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE, LOCAL, STATE AND FEDERAL CODES, PERMITS AND SAFETY REQUIREMENTS.
- 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.

- GRADING AND FINAL ALIGNMENT OF UTILITIES & PIPING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS, AT NO ADDITIONAL COST.
- CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED BOROUGH DEPARTMENTS AND LOCAL UTILITY COMPANIES DURING CONSTRUCTION.
- 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.



LEGEND

EXISTING	THIS PROJECT
	FENCE
	ELECTRICAL (UNDERGROUND)
	ELECTRICAL (OVERHEAD)
	WATER
	SANITARY SEWER
	COMMUNICATION (CABLE/TEL)
	STORM DRAIN
	FORCE MAIN
	PROPERTY LINE
	GUY WIRE ANCHOR
	BOLLARD
	POWER POLE
	LUMINAIRE
	METAL PILING
	ELECTRICAL METER
	FIRE HYDRANT
	LAYOUT POINT
	LIGHT POLE
	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	WATER VALVE
	UTILITY POLE
	SIGN
	SURVEY CONTROL
	POINT NUMBER IDENTIFIER
	EXISTING CONTOUR & ELEVATION
	PAVEMENT/BLACKTOP
	CONCRETE/SIDEWALK
	BUILDING
	SECTION OR DETAIL CALLOUT
	LOCATION OF DETAIL OR REFERENCE DRAWING

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



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REVIEW**

DATE: 05/08/2025

CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

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

PND PROJECT #: 252065 C.A.N. NO.: AECC250

G1.02

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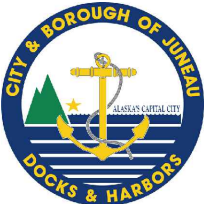
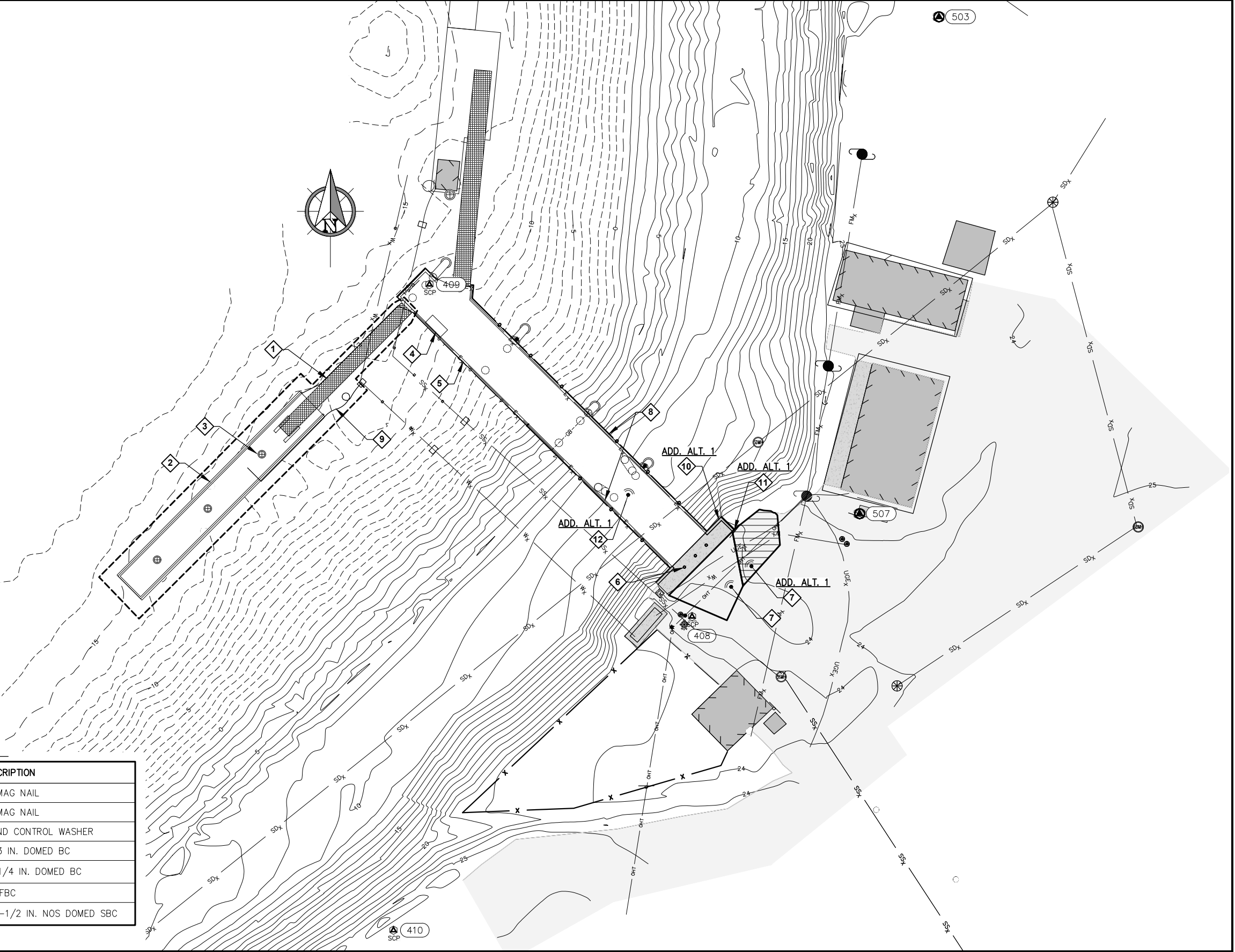
DEMOLITION & CLEARING SUMMARY TABLE

DEMOLITION	DESCRIPTION
1	REMOVE AND SALVAGE 6'x70' GANGWAY IN ITS ENTIRETY INCLUDING ALL ASSOCIATED CONNECTING HARDWARE AND APPURTENANCES.
2	REMOVE AND SALVAGE 14'x100' HDPE PIPE PONTOON FLOAT IN ITS ENTIRETY.
3	DEMOLISH AND DISPOSE OF (3) 16"Ø STEEL PIPE FLOAT ANCHOR PILES IN THEIR ENTIRETY.
4	REMOVE AND SALVAGE KIOSK AND BENCH TO OWNER DESIGNATED LOCATION.
5	REMOVE AND SALVAGE 12"x12" TIMBER BULLRAIL, RAILING AND SUPPORT POST TO BE RELOCATED ON NEW APPROACH DOCK. SEE APPROACH DOCK MODIFICATIONS FOR DETAILS.
6	REMOVE AND SALVAGE REMOVABLE BOLLARDS, FRAME AND COVER TO OWNER DESIGNATED LOCATION. BOLLARD RECEIVER TO REMAIN AND BE FILLED WITH ACP WHEN SLAB IS TOPPED, SEE UPLANDS SITE PLAN.
7	SAWCUT, DEMOLISH AND DISPOSE ASPHALT PAVEMENT
8	REMOVE AND SALVAGE 12"x12" TIMBER BULLRAIL, RAILING AND SUPPORT POST TO BE REINSTALLED IN SAME LOCATION ON MODIFIED APPROACH DOCK.
9	DEMOLISH AND DISPOSE EXISTING WATER SERVICE TO FLOATS. SEE UTILITY SHEETS.
10	ADD. ALT. 1: DEMOLISH AND DISPOSE CONCRETE ABUTMENT CURB, SEE ADD. ALT. DETAILS. REMOVE AND SALVAGE RAILING AND SUPPORT POST TO BE RELOCATED ON NEW ABUTMENT CURB.
11	ADD. ALT. 1: REMOVE, SALVAGE AND RELOCATE EXISTING HARBOR SIGNAGE. SEE ADD. ALT. SITE PLAN.
12	ADD. ALT. 1: DEMOLISH AND DISPOSE 4x GLULAM DECKING.

SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
408	2364022.131	2538885.823	23.80	SET MAG NAIL
409	2364151.024	2538783.826	26.82	SET MAG NAIL
410	2363900.344	2538769.871	25.46	SET MAG NAIL PND CONTROL WASHER
503	2364254.940	2538981.690	26.34	FBC AH-3 3 IN. DOMED BC
506	2365619.000	2537231.200	26.52	FBC AH-E 3-1/4 IN. DOMED BC
507	2364062.040	2538950.900	24.89	FBC
509	2362232.940	2541120.780	29.57	FBC JNU TIDAL GPS 3-1/2 IN. NOS DOMED SBC

* NOT SHOWN HEREON



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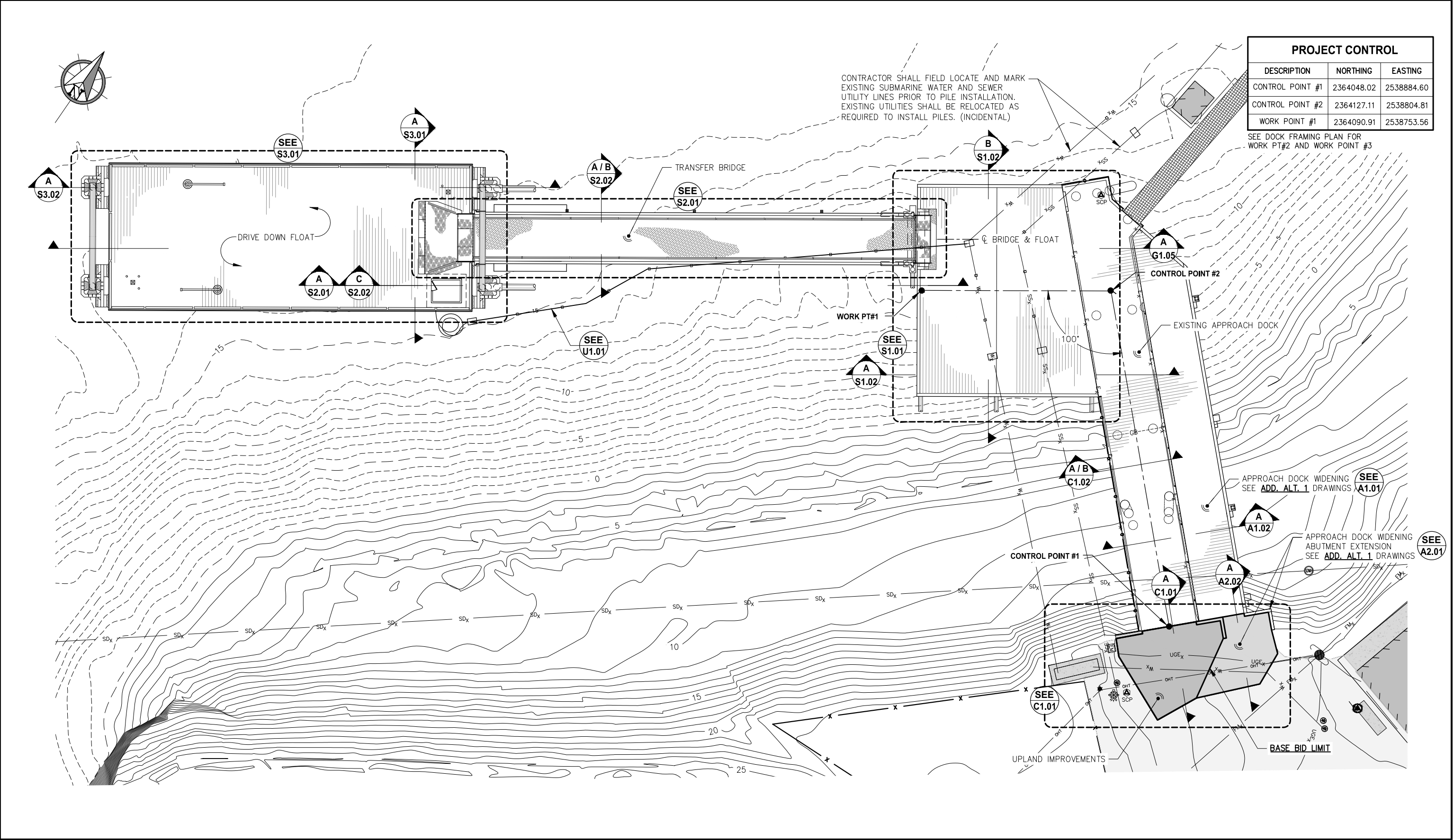
CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
EXISTING CONDITIONS AND
DEMOLITION PLAN

PND PROJECT #: 252065 C.A.N. NO.: AECC250

G1.03

n:\25xxx\252065 aurora harbor.dwg drawings\G1.03-G1.04 Site Plan_ECON and Demolition.dwg - Bbrown - 5/6/2026



PROJECT CONTROL		
DESCRIPTION	NORTHING	EASTING
CONTROL POINT #1	2364048.02	2538884.60
CONTROL POINT #2	2364127.11	2538804.81
WORK POINT #1	2364090.91	2538753.56

SEE DOCK FRAMING PLAN FOR WORK PT#2 AND WORK POINT #3



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DATE: 05/08/2025

CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
**OVERALL SITE PLAN AND
PROJECT CONTROL**

PND PROJECT #: 252065 C.A.N. NO.: AECC250

G1.04



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DATE: 05/08/2025

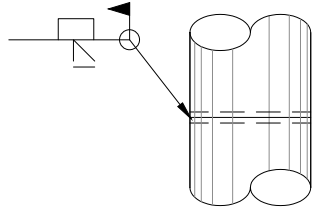
CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
**OVERALL PLAN AND PROFILE
- BASE BID**

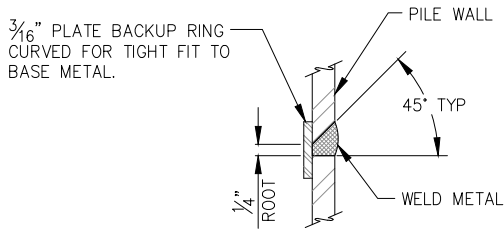
PND PROJECT #: 252065	C.A.N. NO.: AECC250
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G1.05

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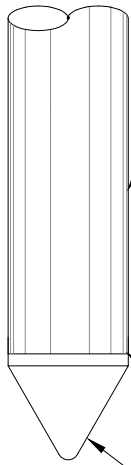
ELEVATION



TYPICAL SECTION

TYPICAL PILE SPICE WELD

TYPICAL FOR ALL FIELD PIPE PILE SPLICES



STEEL PIPE PILE. SEE SPECIFICATIONS FOR PILE DRIVING REQUIREMENTS.

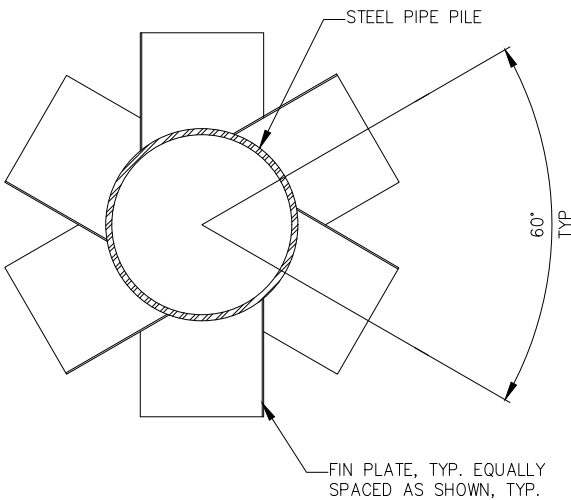
WELD PER MANUF. RECOMMENDATIONS

APF CONICAL TIP. INSTALL PER MANUF. RECOMMENDATIONS

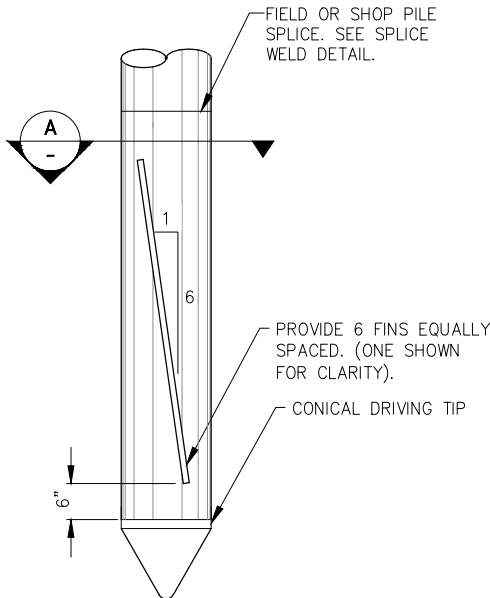
ELEVATION

TYPICAL PILE TIP

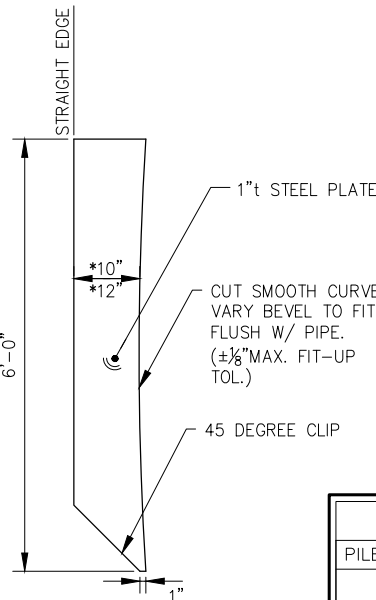
NOTE: INSTALL AT ALL LOCATIONS SHOWN IN PILE SCHEDULE



SECTION



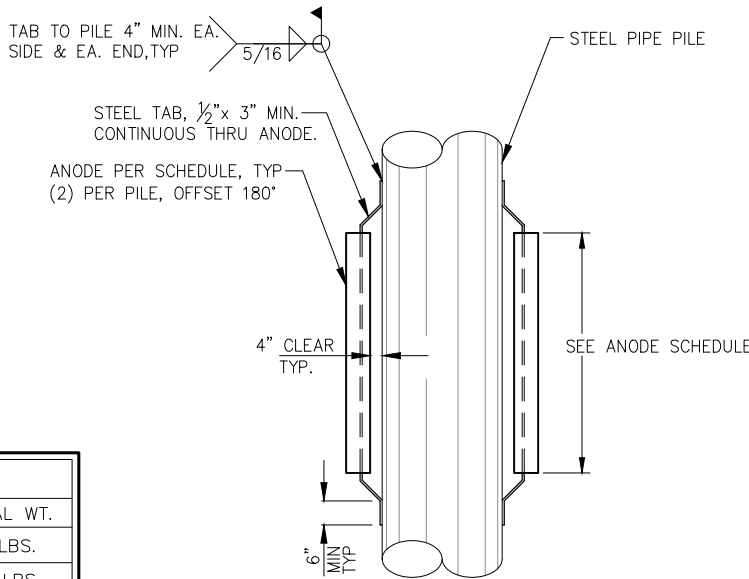
SPIN FIN® PILE - ELEVATION



SPIN FIN DETAIL

ANODE SCHEDULE

PILE DIAMETER	DIMENSIONS	NOMINAL WT.
16"Ø	4"x4"x72"	115 LBS.
24"Ø	6"x6"x72"	260 LBS.



ANODE DETAIL

PILE SCHEDULE

Location		Pile Size	Pile Tip	Batter	Approx. Mudline Elev. (ft)	Approx. Pile Tip Elev. (ft)	Approx. Cutoff Elev. (ft)	Supply Length	# of Anodes	Ultimate Load (kip)	
										Tension	Comp.
Approach Dock Addition	A1 Vert	16.0 x 0.500	SF/CT	V	-14	-54	23	80	2	-	-
	A2 Vert	16.0 x 0.500	SF/CT	V	-14	-54	23	80	2	-	-
	A2 Batter	16.0 x 0.500	SF/CT	2V : 1H	-14	-54	23	100	2	-	-
	A3 Vert	16.0 x 0.500	SF/CT	V	-14	-54	23	80	2	-	-
	B1 Vert	16.0 x 0.500	SF/CT	V	-12	-52	23	80	2	-	-
	B2 Vert	16.0 x 0.500	SF/CT	V	-12	-52	23	80	2	-	-
	B2 Batter	16.0 x 0.500	SF/CT	2V : 1H	-12	-52	23	100	2	-	-
	B3 Vert	16.0 x 0.500	SF/CT	V	-10	-50	23	80	2	-	-
	C1 Vert	16.0 x 0.500	SF/CT	V	-12	-52	23	80	2	-	-
	C2 Vert	16.0 x 0.500	SF/CT	V	-10	-50	23	80	2	-	-
	C2 Batter	16.0 x 0.500	SF/CT	2V : 1H	-10	-50	23	100	2	-	-
	C3 Vert	16.0 x 0.500	SF/CT	V	-8	-48	23	80	2	-	-
	D1 Vert	16.0 x 0.500	SF/CT	V	-2	-42	23	80	2	-	-
	D1 Batter	16.0 x 0.500	SF/CT	2V : 1H	0	-40	23	80	-	-	-
	D2 Vert	16.0 x 0.500	SF/CT	V	-4	-44	23	80	2	-	-
	D2 Batter	16.0 x 0.500	SF/CT	2V : 1H	-2	-42	23	80	2	-	-
	D2 Batter	16.0 x 0.500	SF/CT	2V : 1H	2	-38	23	100	-	-	-
	D3 Vert	16.0 x 0.500	SF/CT	V	-2	-42	23	80	2	-	-
Bridge Abutment	B1 Vert	16.0 x 0.500	SF/CT	V	-14	-54	23	80	2	-	-
	B2 Batter	16.0 x 0.500	SF/CT	2V : 1H	-14	-54	23	100	2	-	-
	B3 Batter	16.0 x 0.500	SF/CT	2V : 1H	-14	-54	23	100	2	-	-
	B4 Vert	16.0 x 0.500	SF/CT	V	-14	-54	23	80	2	-	-
	B5 Batter	16.0 x 0.500	SF/CT	2V : 1H	-14	-54	23	100	2	-	-
Float	F1 Vert	24.0 x 0.500	SF/CT	V	-18	-68	23	100	4	-	-
	F2 Batter	24.0 x 0.500	SF/CT	2V : 1H	-18	-68	23	100	4	-	-
	F3 Batter	24.0 x 0.500	SF/CT	2V : 1H	-18	-68	23	100	4	-	-
	F4 Vert	24.0 x 0.500	SF/CT	V	-18	-68	23	100	4	-	-
	F5 Vert	24.0 x 0.500	SF/CT	V	-18	-68	23	100	4	-	-
	F6 Vert	24.0 x 0.500	SF/CT	V	-18	-68	23	100	4	-	-
2,660											
Temporary Construction Piles	12 Total	16.0 x 0.500	O	V	-14	-34	25	60	-	-	-

Pile Schedule Legend:

H = Horizontal

SF = Spin Fin

CT = Conical Tip

V = Vertical

O = Open Shoe



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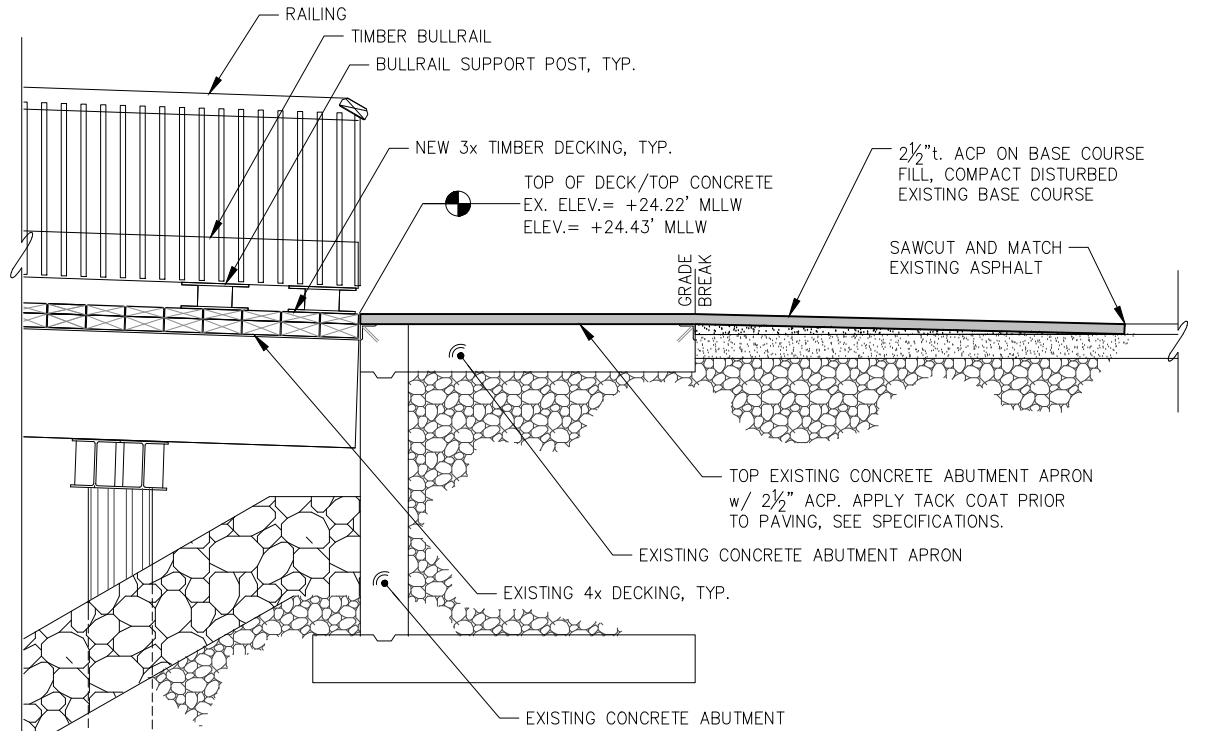
CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
PILE SCHEDULE AND DETAILS

G1.06

PND PROJECT #: 252065 C.A.N. NO.: AECC250

n:\25xxx\252065 aurora harbor adf\g. drawings\C1.01-C1.02 Uplands Site Plan.dwg - Bbrown - 4/30/2026



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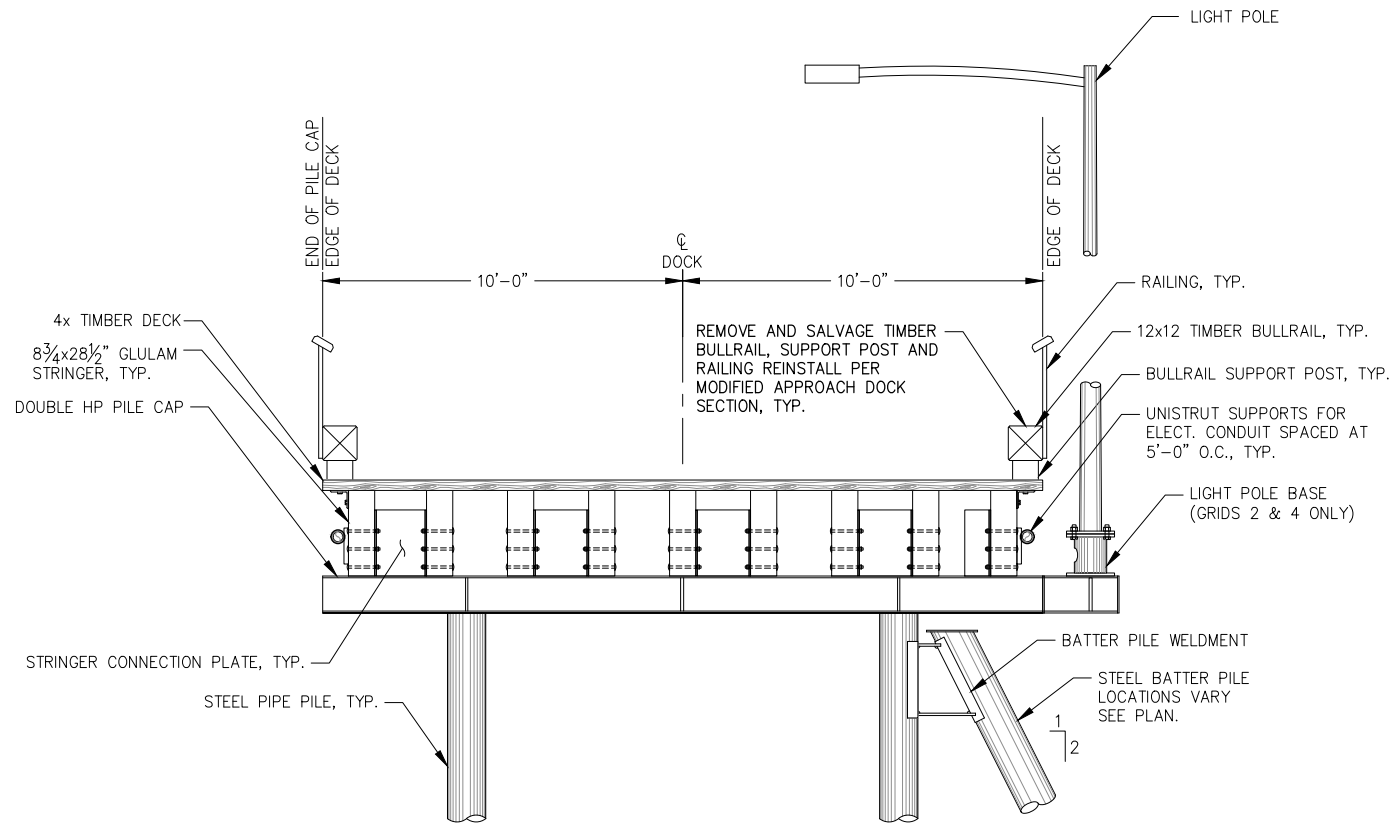
SHEET TITLE:

UPLANDS SITE PLAN

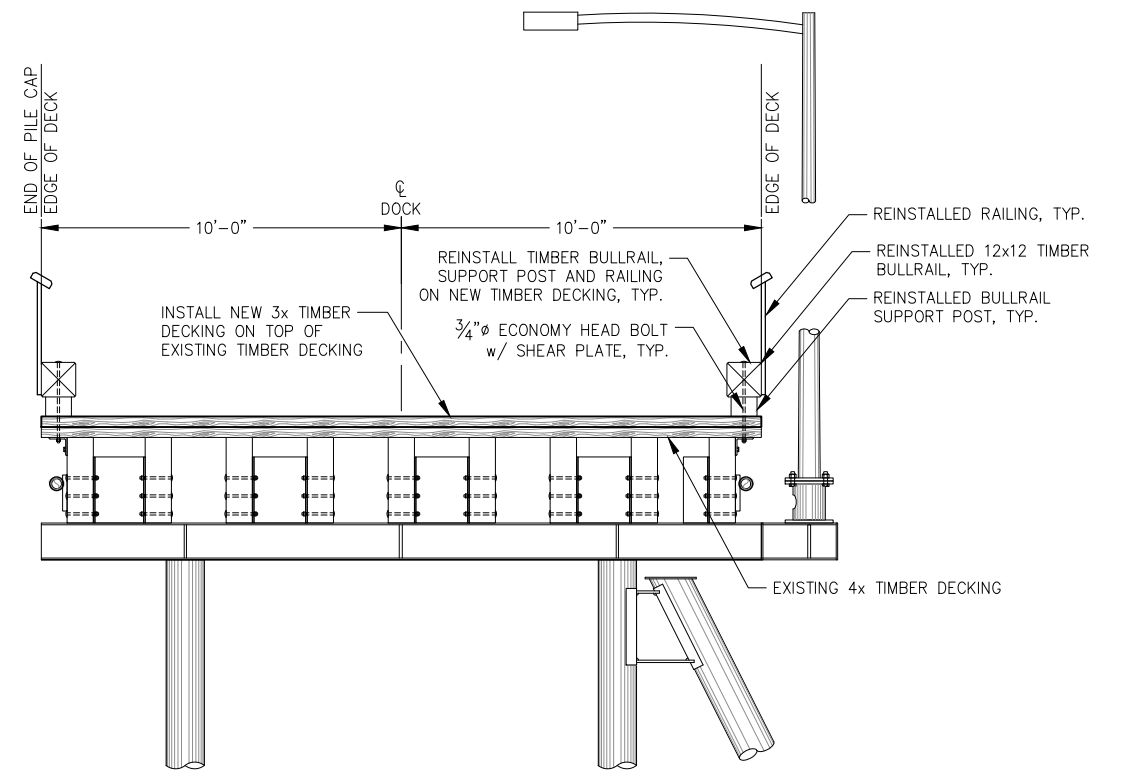
PND PROJECT #: 252065 C.A.N. NO.: AECC250

C1.01

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A EXISTING APPROACH DOCK SECTION



B MODIFIED APPROACH DOCK SECTION



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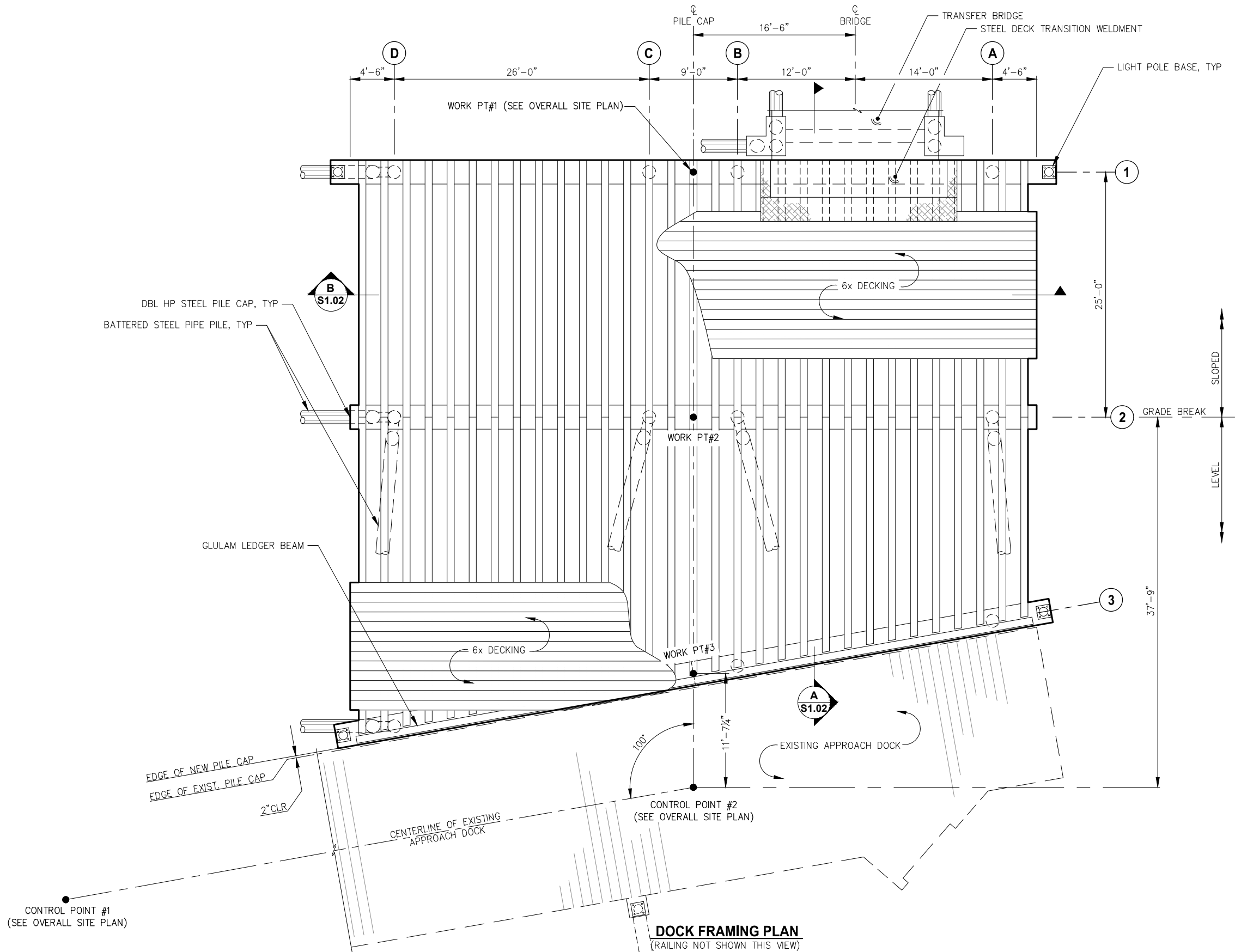
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CONTRACT NO. DH26-022

SHEET TITLE:
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SECTION AT UPLANDS

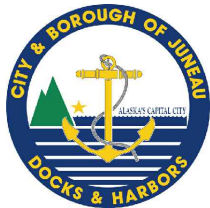
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C1.02

n:\25xxx\252065 aurora harbor.dwg\g. drawings\S1.01-02_A1.01-02 Dock Plan and Elevation.dwg - Jdemuth - 5/7/2026



DOCK FRAMING PLAN
(RAILING NOT SHOWN THIS VIEW)



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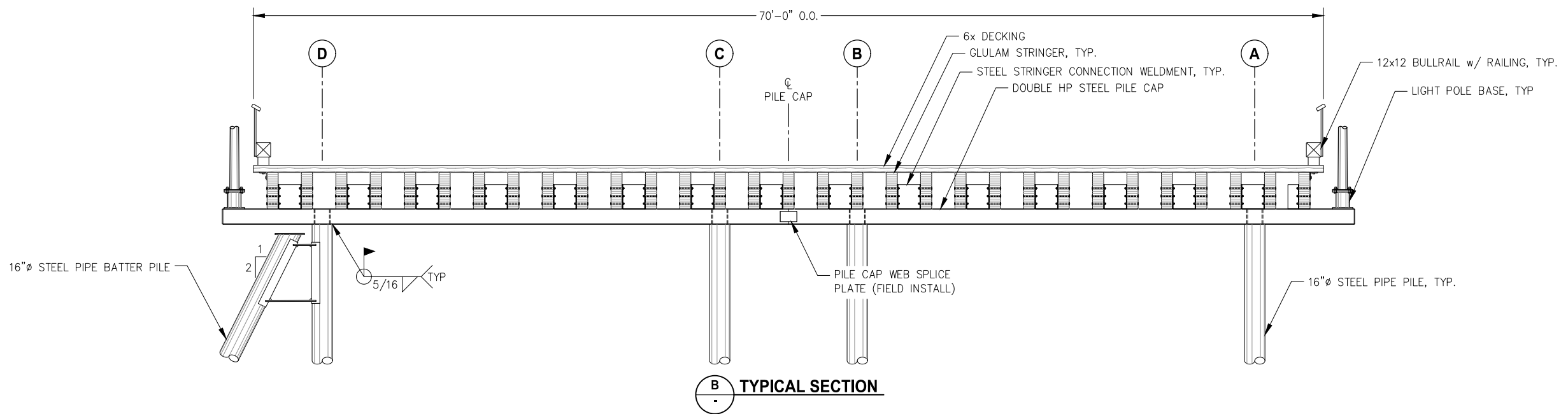
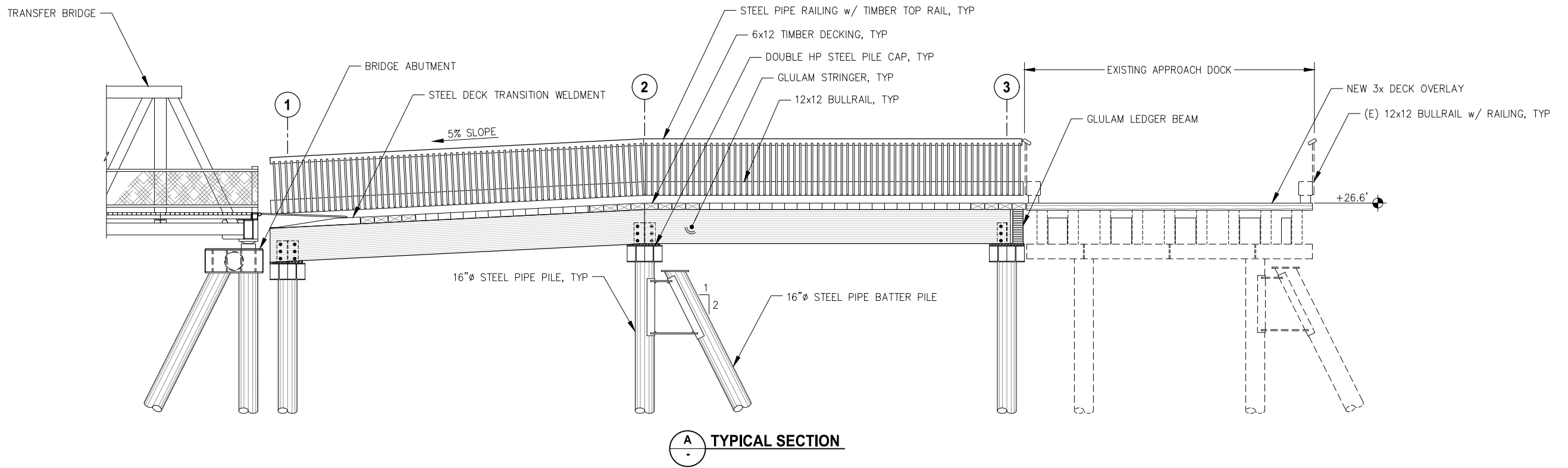
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CONTRACT NO. DH26-022

SHEET TITLE:
**OVERALL PLAN AND
PILE LAYOUT**

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S1.01

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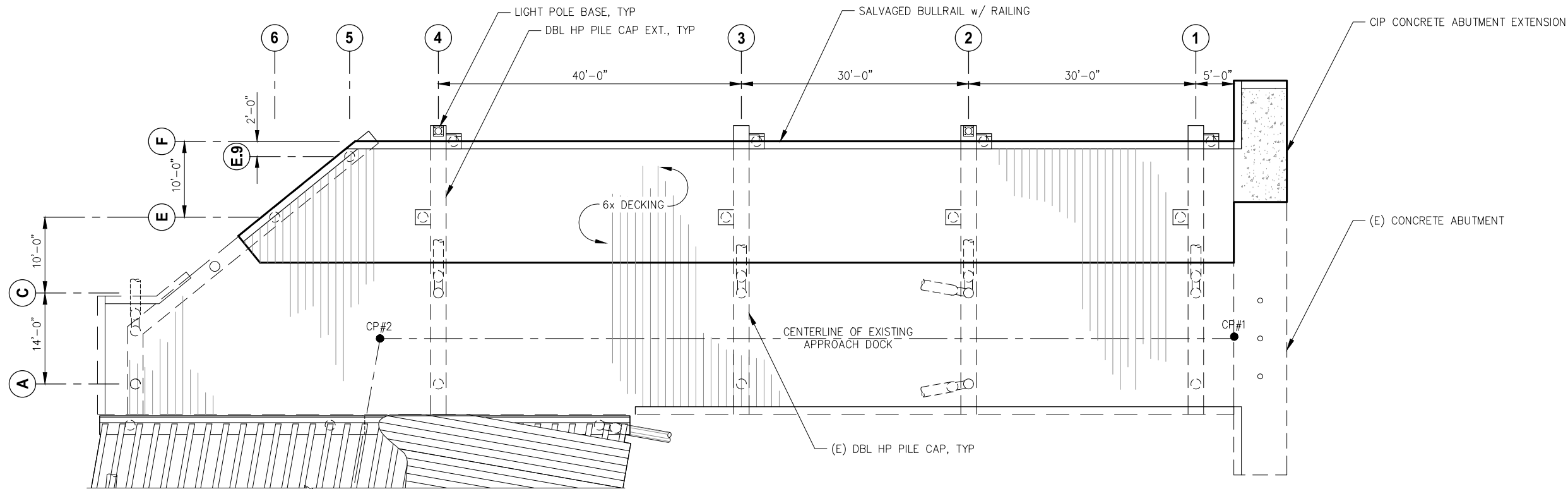
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CONTRACT NO. DH26-022

SHEET TITLE:
TYPICAL SECTIONS

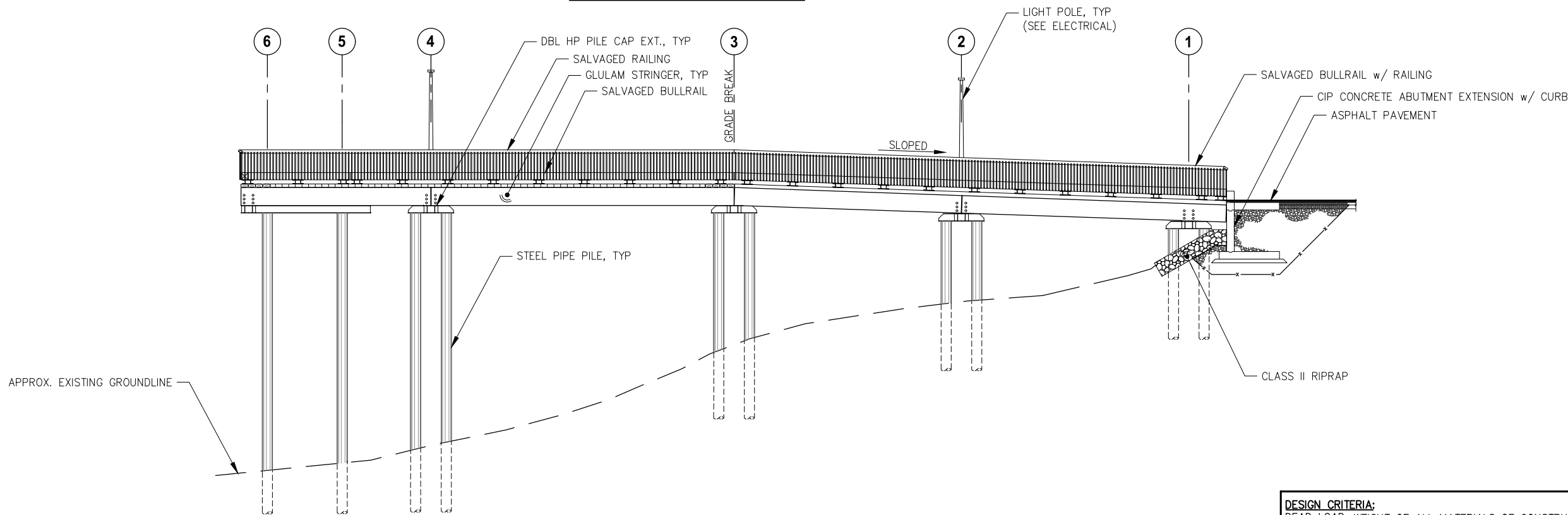
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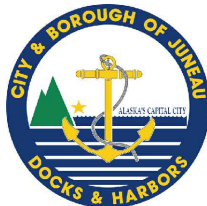


APPROACH WIDENING - PLAN



APPROACH WIDENING - ELEVATION

DESIGN CRITERIA:
DEAD LOAD: WEIGHT OF ALL MATERIALS OF CONSTRUCTION.
LIVE LOADS: 1. AASHTO HS20-44 DESIGN TRUCK.
2. 100 PSF UNIFORM LIVE LOAD.



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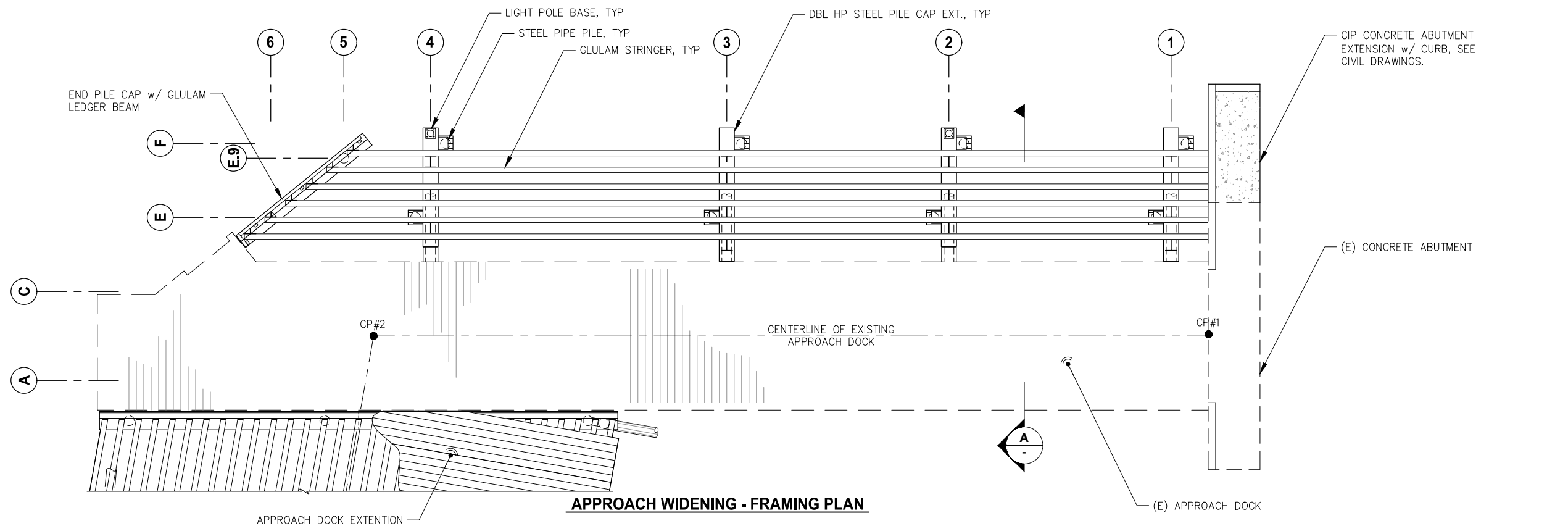
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CONTRACT NO. DH26-022

SHEET TITLE:
APPROACH DOCK WIDENING
PLAN AND ELEVATION

PND PROJECT #: 252065 C.A.N. NO.: AECC250

A1.01

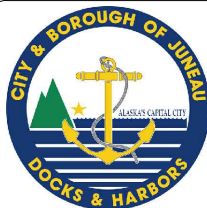
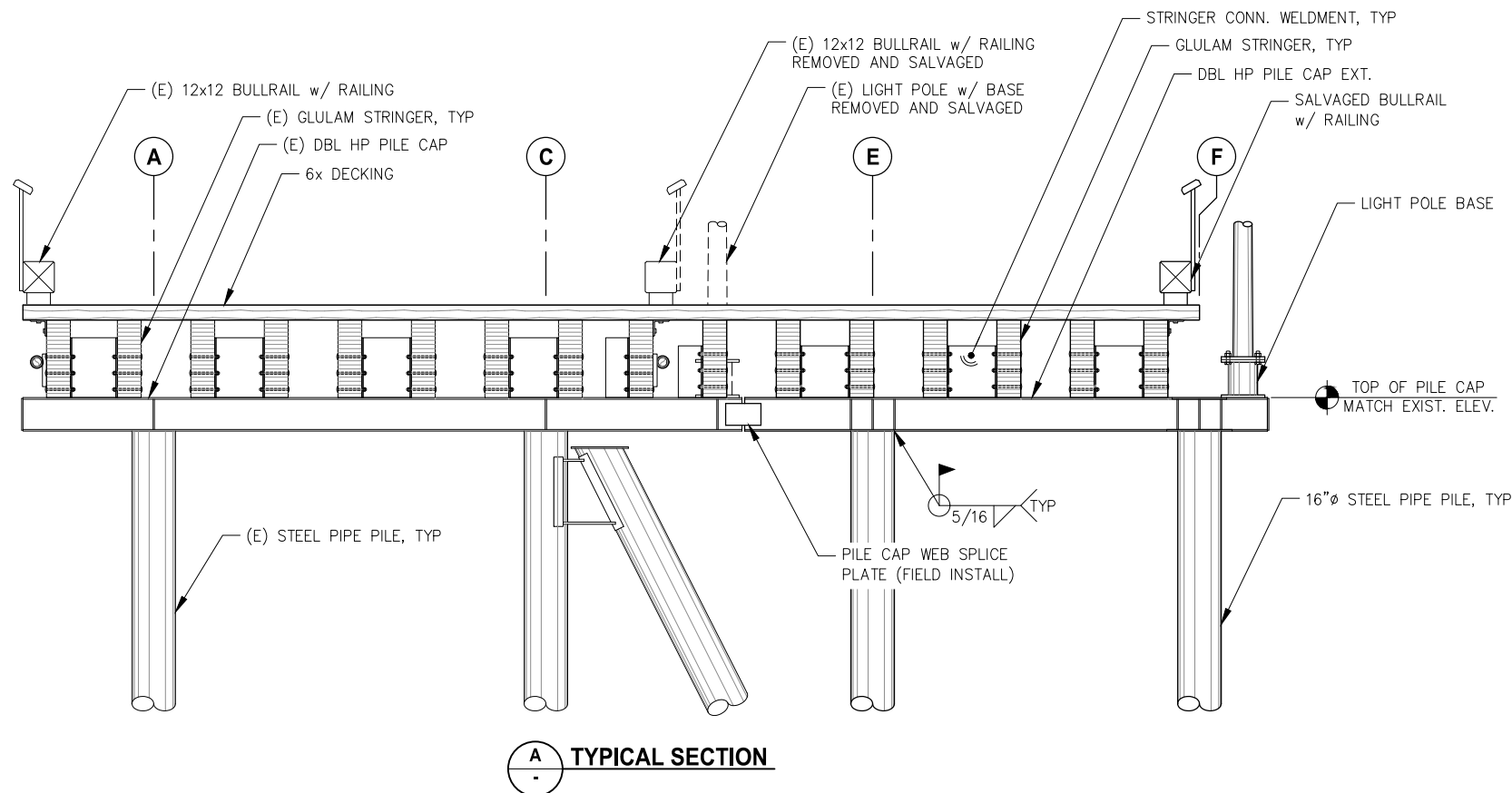
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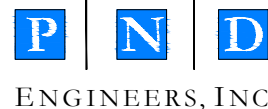
PILE SCHEDULE

Location		Pile Size	Pile Tip	Batter	Approx. Mudline Elev. (ft)	Approx. Pile Tip Elev. (ft)	Approx. Cutoff Elev. (ft)	Supply Length	# of Anodes	Ultimate Load (kip)	
Approach Dock Widening	E1 Vert	16.0 x 0.500	CT	V	15	-25	23	60	-	-	-
	E2 Vert	16.0 x 0.500	CT	V	10	-30	23	60	-	-	-
	E3 Vert	16.0 x 0.500	CT	V	5	-35	23	60	-	-	-
	E4 Vert	16.0 x 0.500	CT	V	-10	-50	23	80	2	-	-
	E6 Vert	16.0 x 0.500	CT	V	-12	-52	23	80	2	-	-
	F1 Vert	16.0 x 0.500	CT	V	15	-25	23	60	-	-	-
	F2 Vert	16.0 x 0.500	CT	V	10	-30	23	60	-	-	-
	F3 Vert	16.0 x 0.500	CT	V	5	-35	23	60	-	-	-
	F4 Vert	16.0 x 0.500	CT	V	-10	-50	23	80	2	-	-
E.9 5 Vert		16.0 x 0.500	CT	V	-12	-52	23	80	2	-	-
680											

Pile Schedule Legend:
H = Horizontal
V = Vertical
SF = Spin Fin
O = Open Shoe
CT = Conical Tip



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SHEET TITLE:
APPROACH DOCK WIDENING PILE
LAYOUT AND FRAMING PLAN

PND PROJECT #: 252065 C.A.N. NO.: AECC250

A1.02

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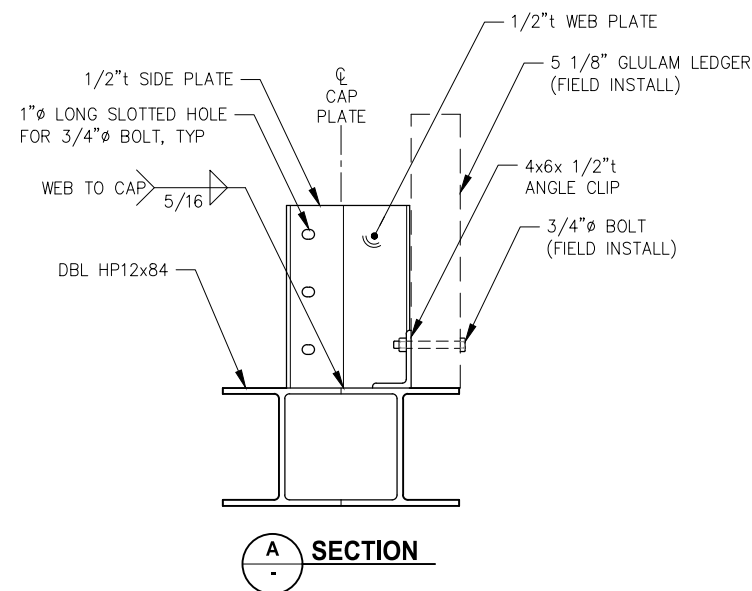
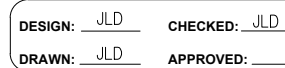
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A1.03

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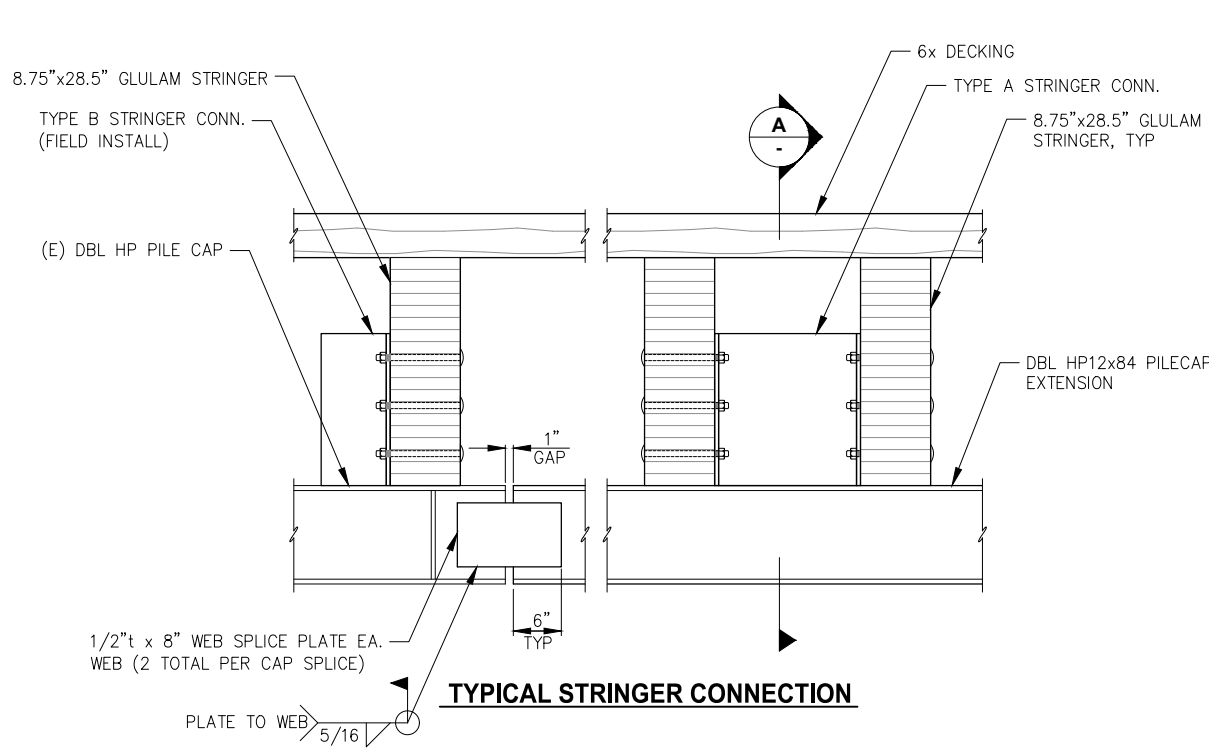
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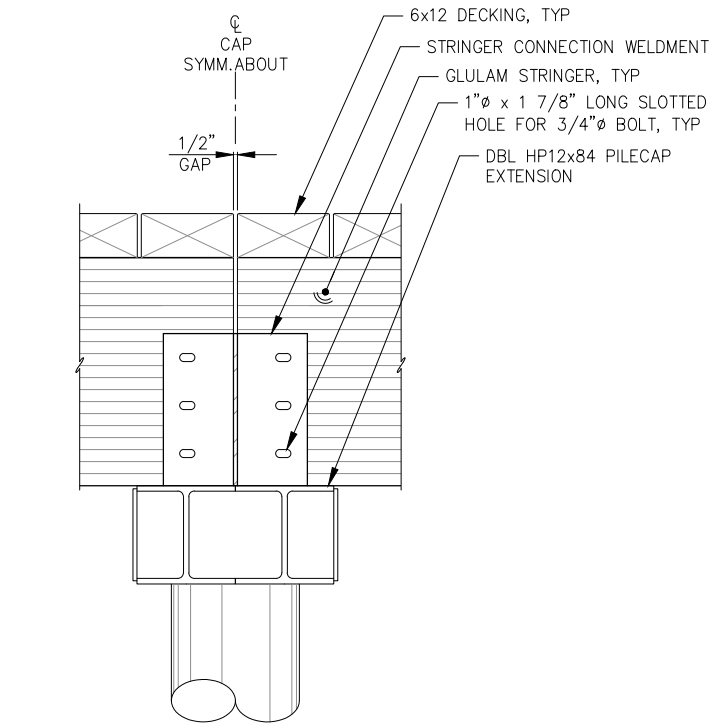
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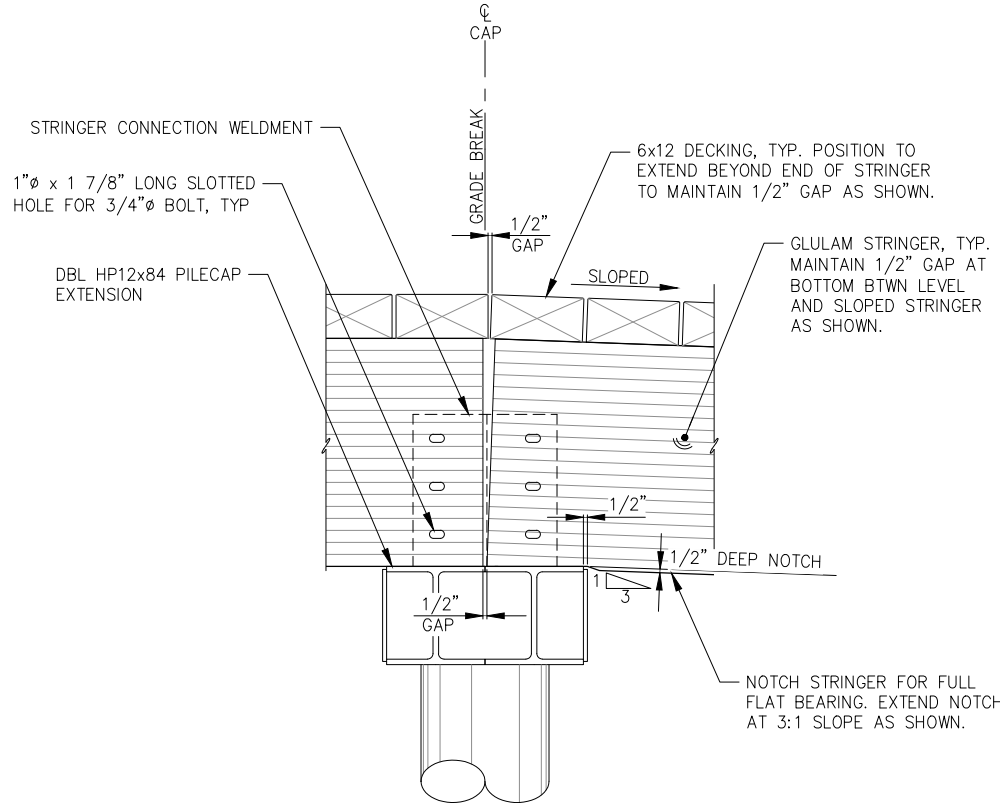
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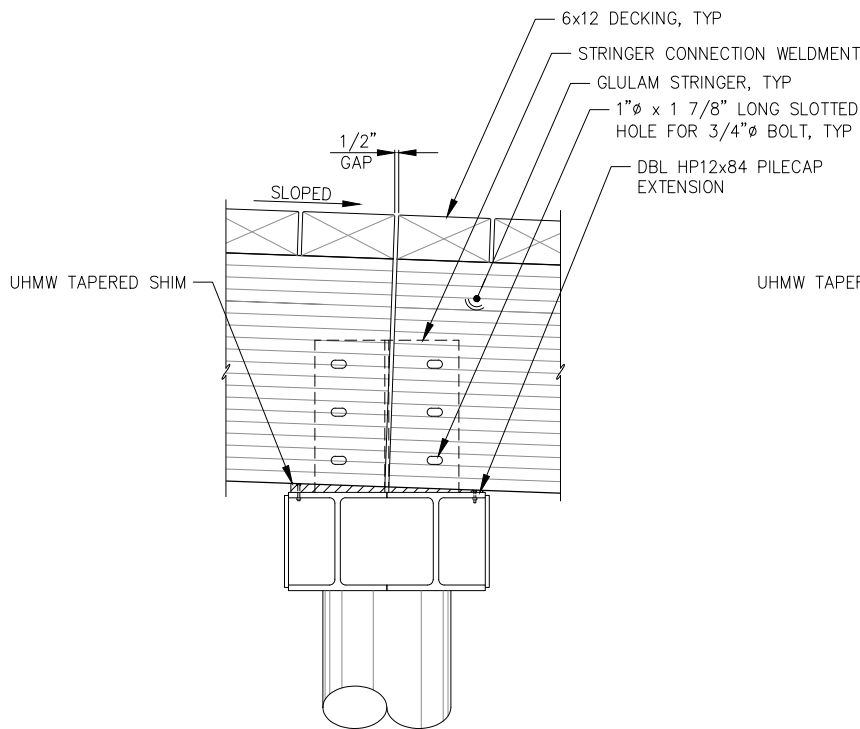
TYPICAL STRINGER CONNECTION



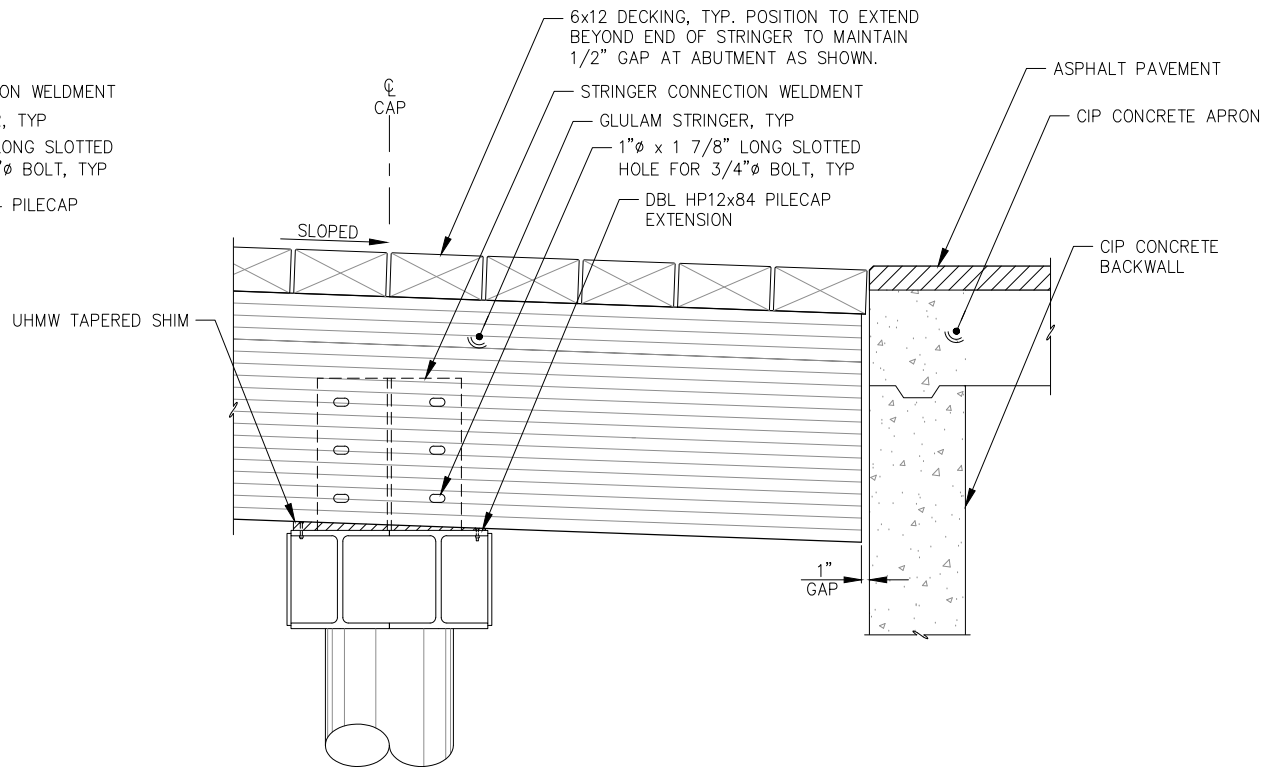
TYPICAL STRINGER CONNECTION



STRINGER CONNECTION - GRID 3



STRINGER CONNECTION - GRID 2



STRINGER CONNECTION - GRID 1



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SHEET TITLE:
STRINGER CONNECTION DETAILS

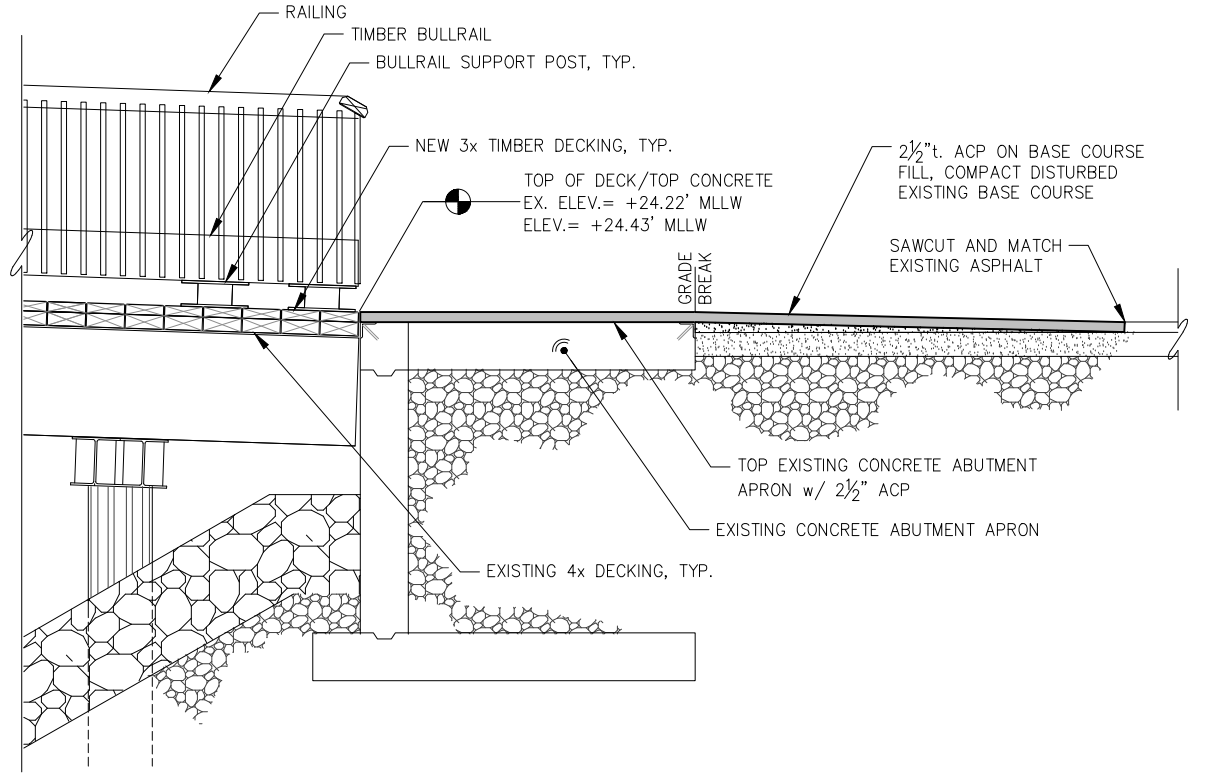
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A1.05

n:\25xxx\252065 aurora harbor add\g. drawings\A2.01 ADDALT Uplands Site Plan.dwg - Bbrown - 4/29/2026



UPLANDS SITE PLAN



A UPLANDS SECTION A



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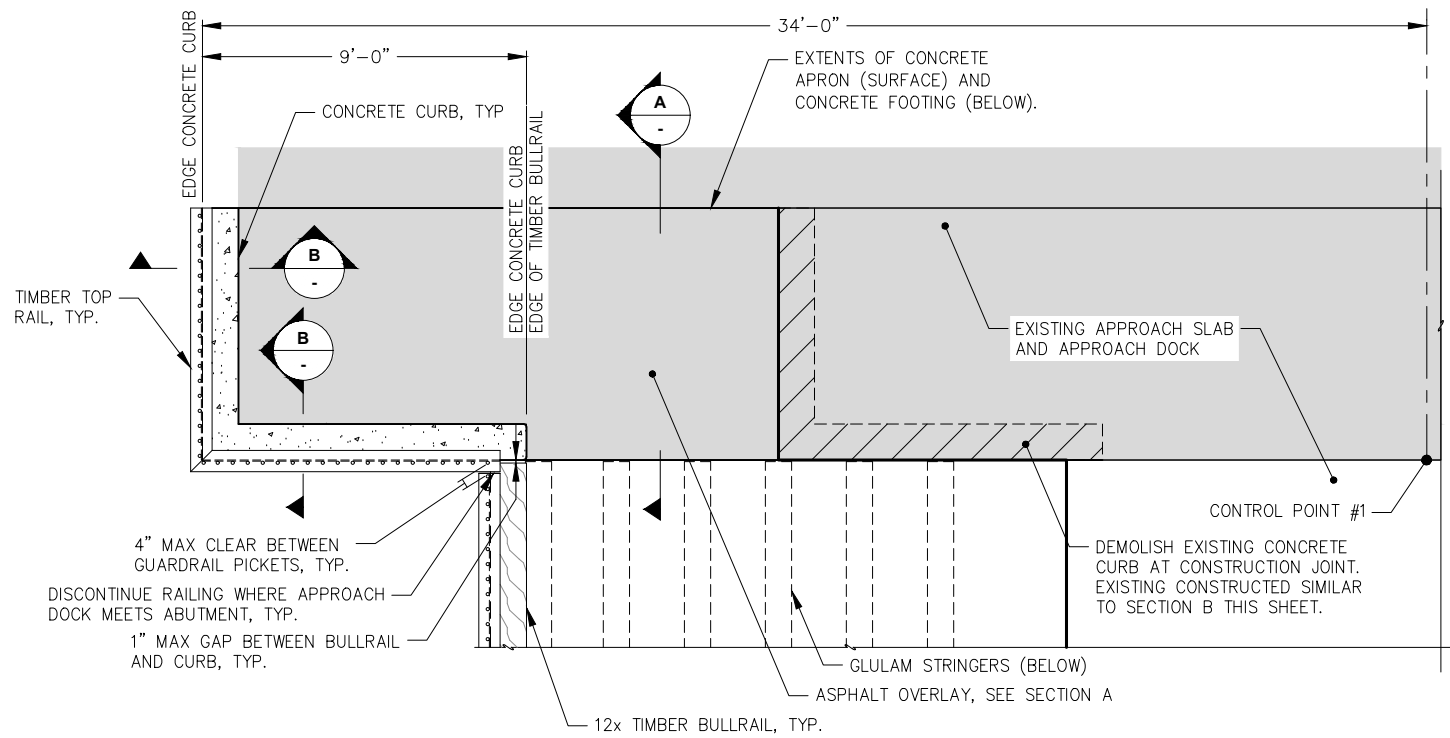
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SHEET TITLE:
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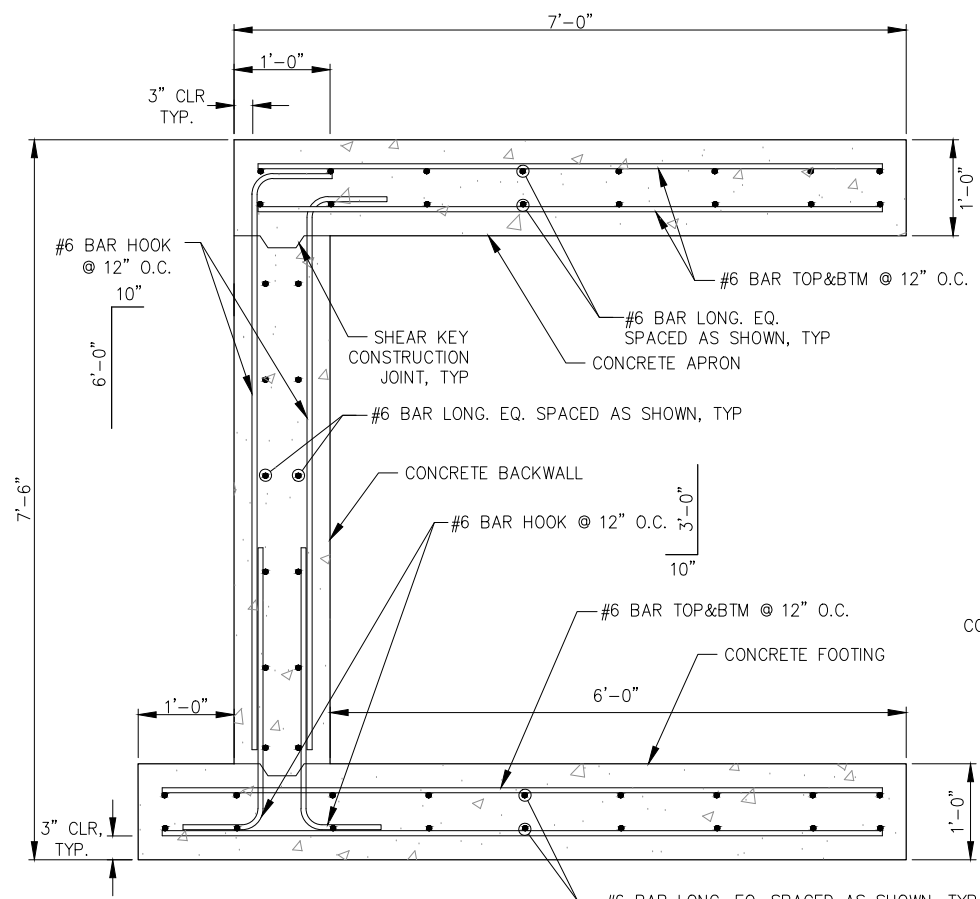
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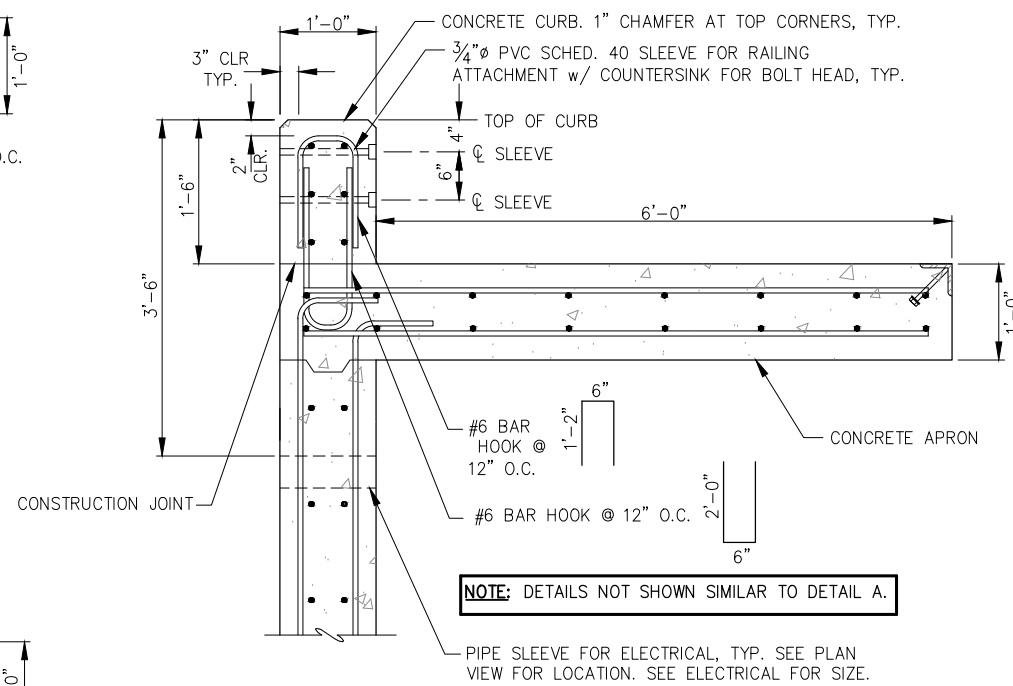
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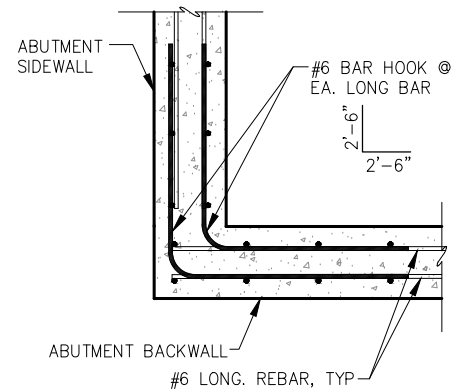
CONCRETE ABUTMENT PLAN



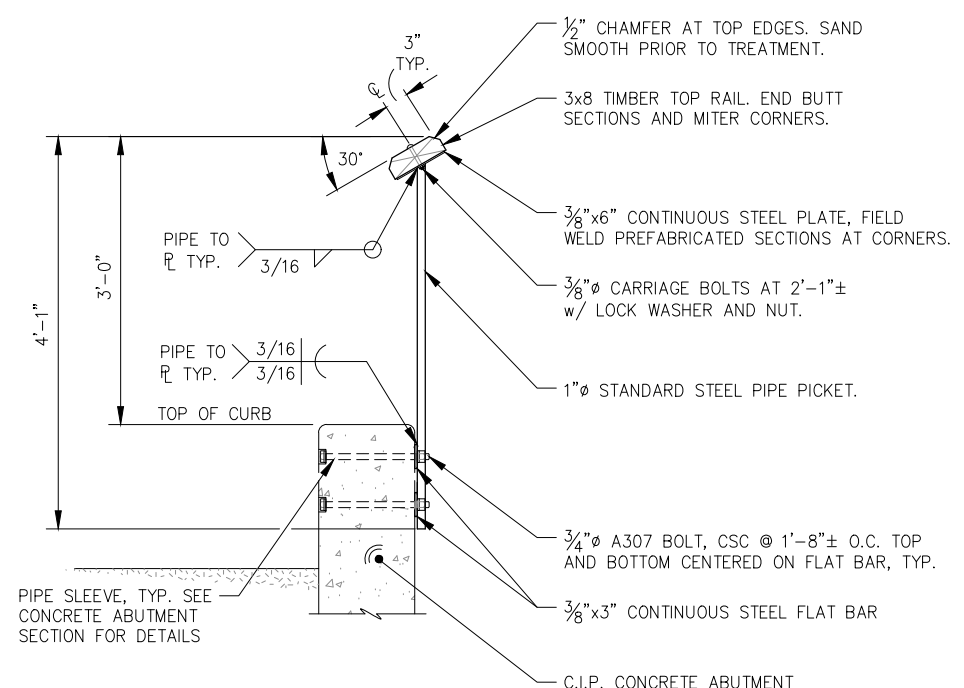
CONCRETE ABUTMENT SECTION A



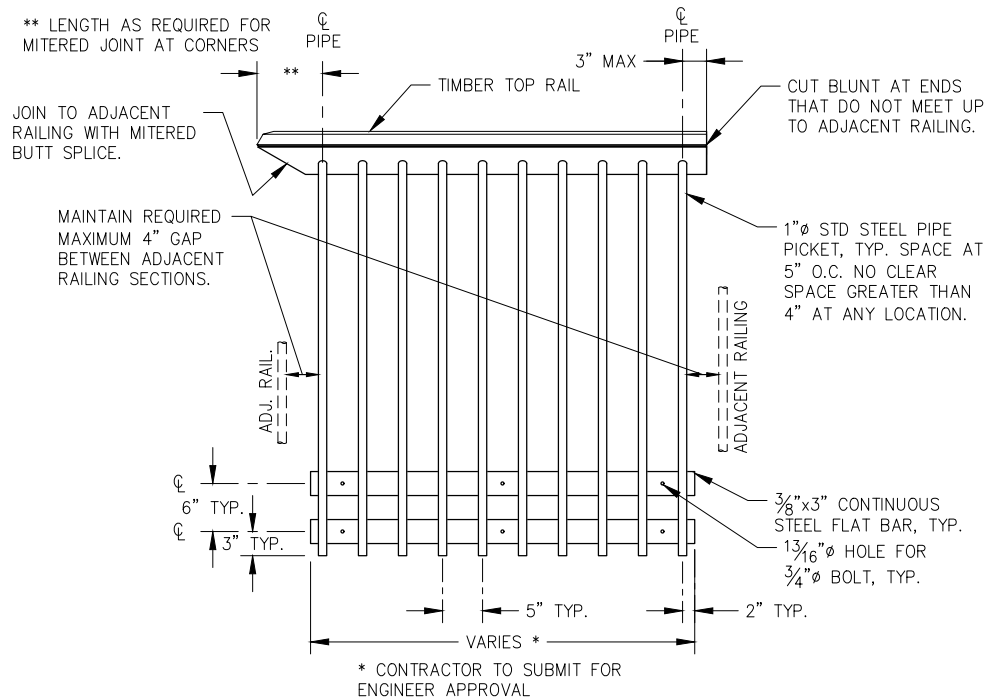
CONCRETE ABUTMENT SECTION B



CORNER REBAR PLAN



TYPICAL ABUTMENT RAILING SECTION



TYPICAL ABUTMENT RAILING DETAILS



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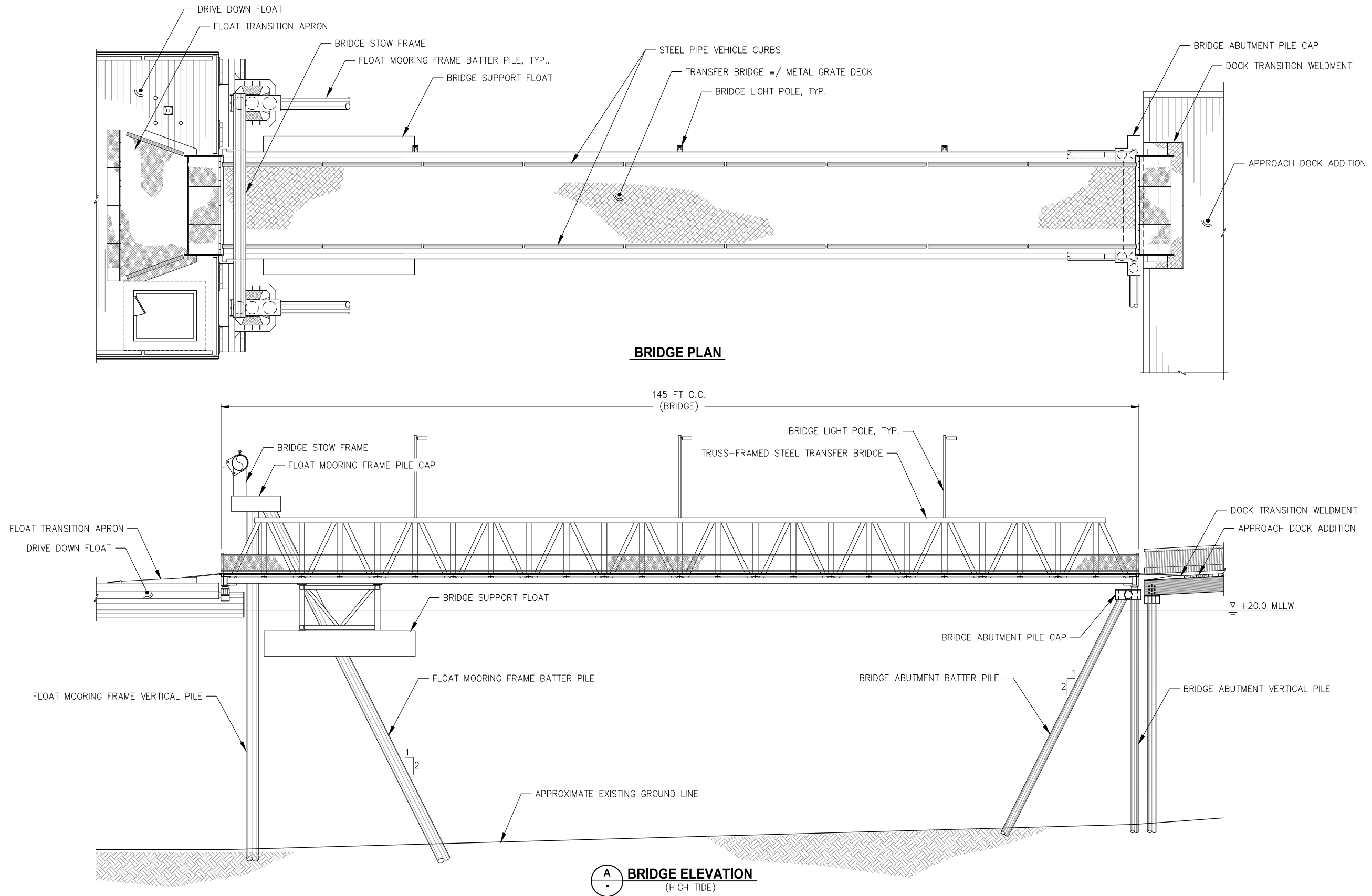
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SHEET TITLE:
CONCRETE ABUTMENT DETAILS

PND PROJECT #: 252065 C.A.N. NO.: AECC250

A2.03

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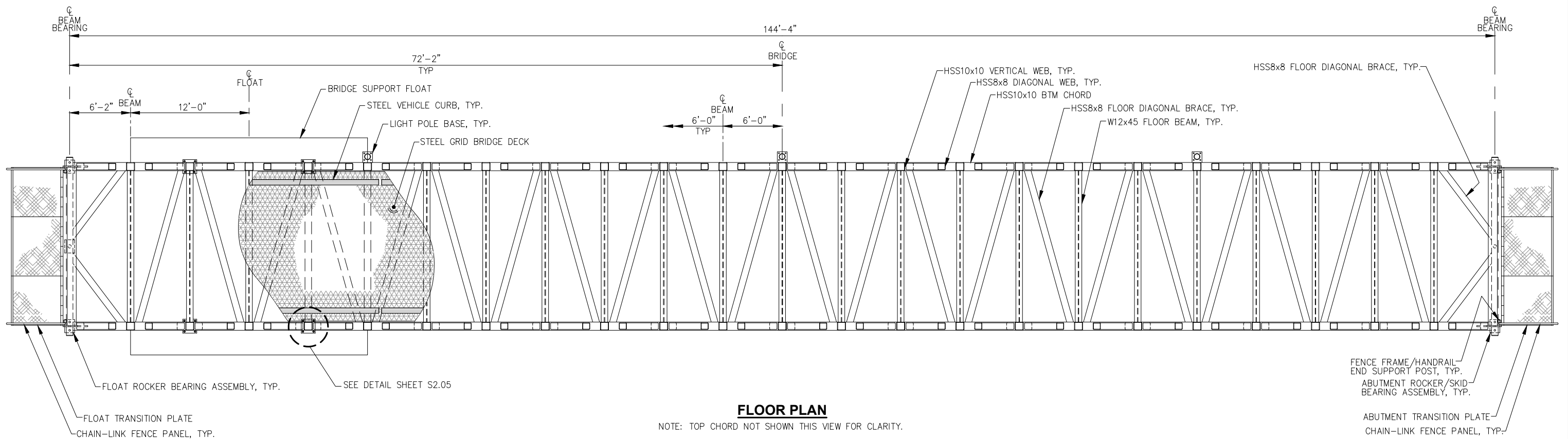
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CONTRACT NO. DH26-022

SHEET TITLE:
GENERAL PLAN AND ELEVATION

PND PROJECT #: 252065 C.A.N. NO.: AECC250

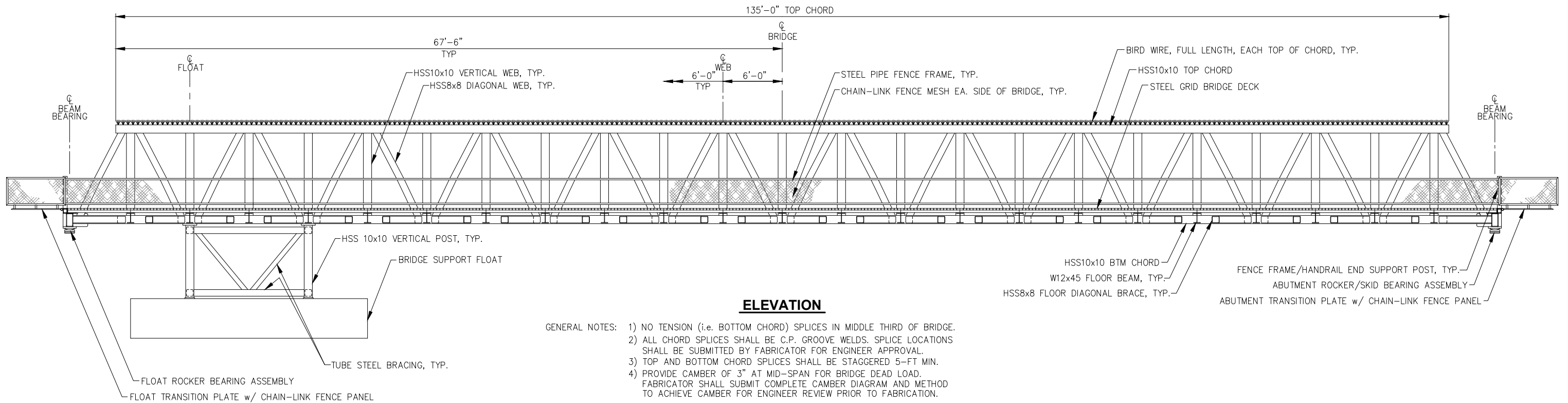
S2.01

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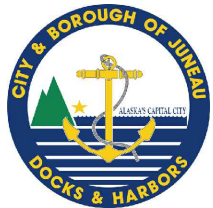
FLOOR PLAN

NOTE: TOP CHORD NOT SHOWN THIS VIEW FOR CLARITY.



ELEVATION

- GENERAL NOTES:
- 1) NO TENSION (i.e. BOTTOM CHORD) SPLICES IN MIDDLE THIRD OF BRIDGE.
 - 2) ALL CHORD SPLICES SHALL BE C.P. GROOVE WELDS. SPLICE LOCATIONS SHALL BE SUBMITTED BY FABRICATOR FOR ENGINEER APPROVAL.
 - 3) TOP AND BOTTOM CHORD SPLICES SHALL BE STAGGERED 5'-FT MIN.
 - 4) PROVIDE CAMBER OF 3" AT MID-SPAN FOR BRIDGE DEAD LOAD. FABRICATOR SHALL SUBMIT COMPLETE CAMBER DIAGRAM AND METHOD TO ACHIEVE CAMBER FOR ENGINEER REVIEW PRIOR TO FABRICATION.



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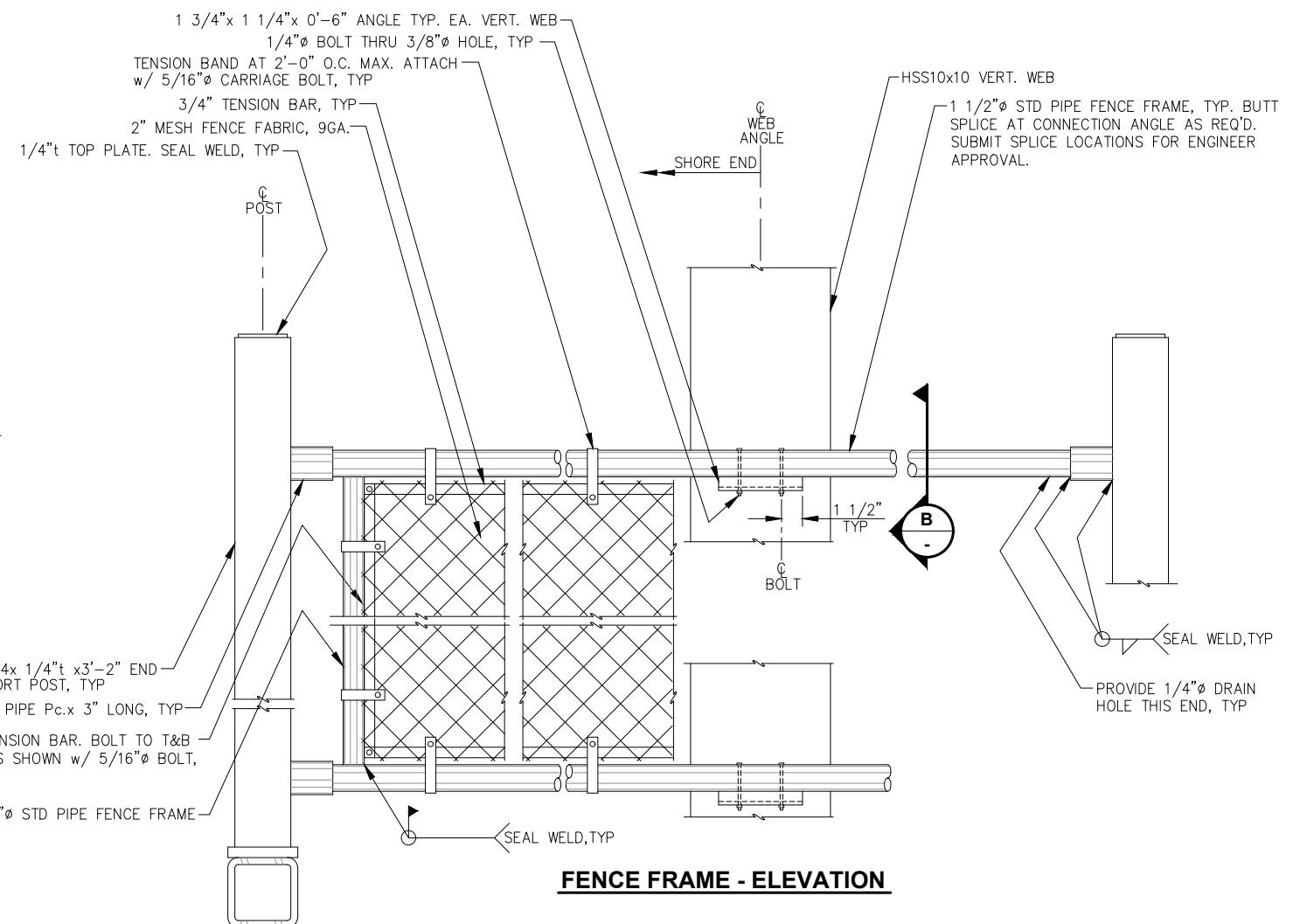
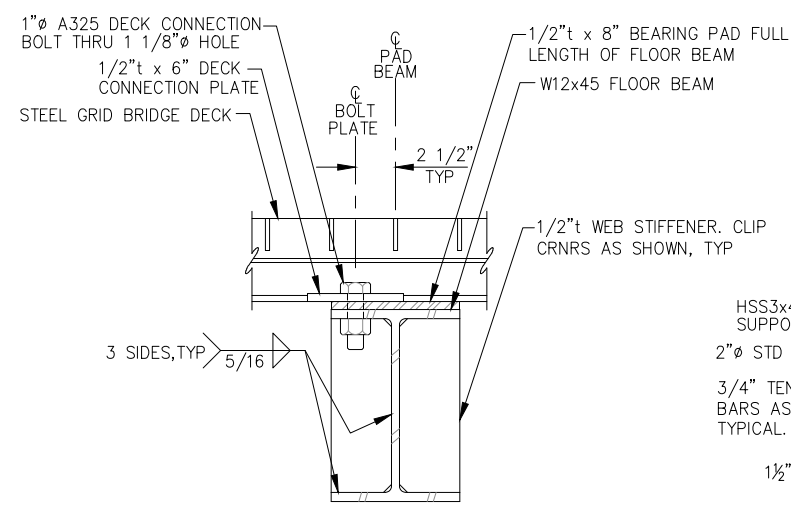
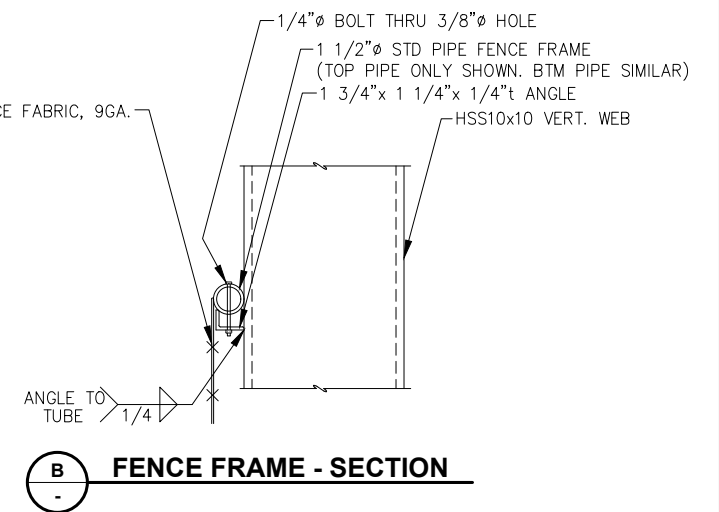
DATE: 05/08/2025

CITY & BOROUGH OF JUNEAU, ALASKA
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SHEET TITLE:
PLAN AND ELEVATION

S2.02

PND PROJECT #: 252065 C.A.N. NO.: AECC250

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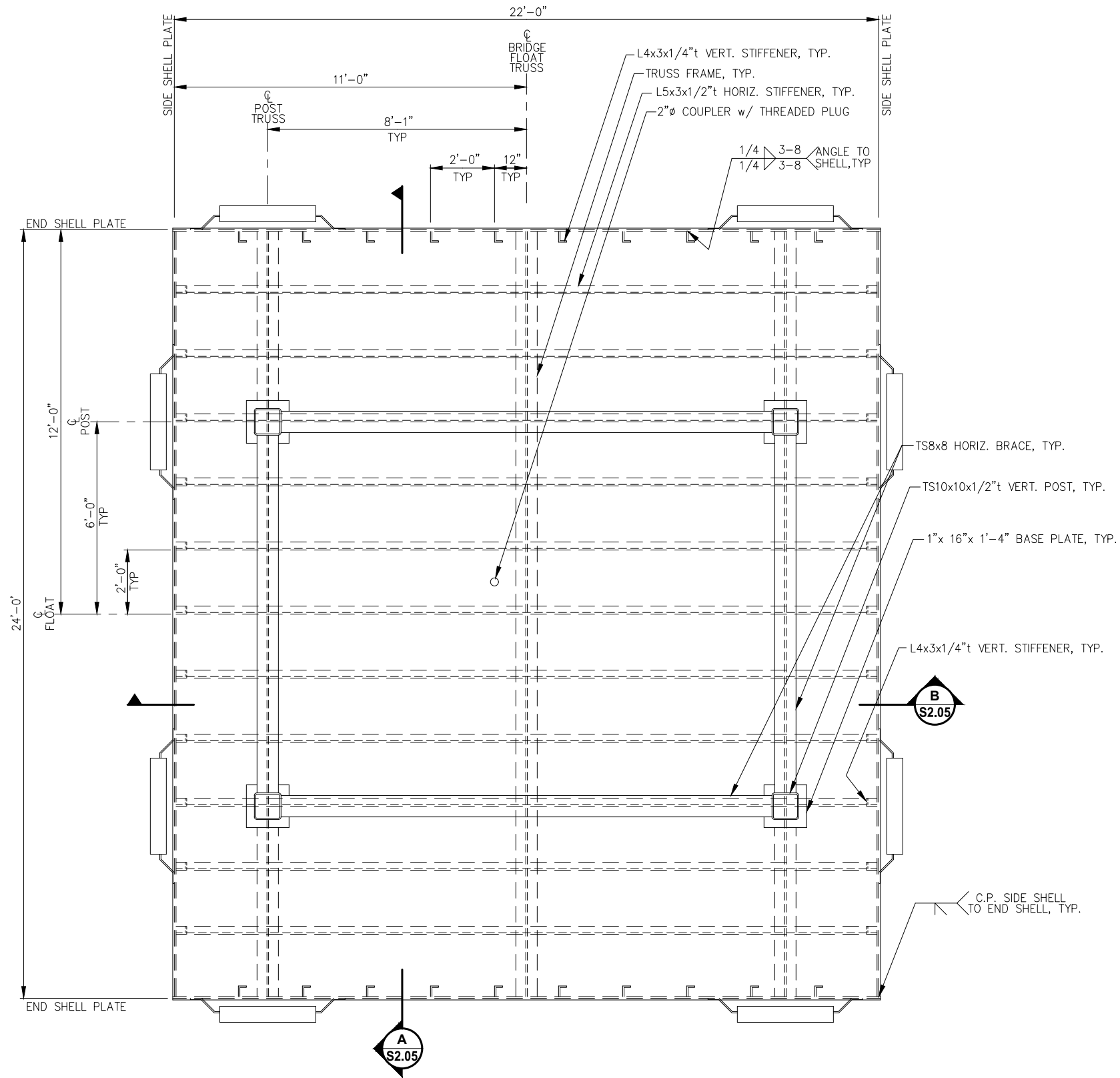
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DATE: 05/08/2025

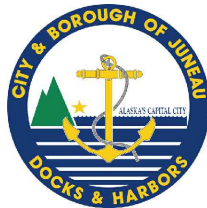
PND PROJECT #: 252065	C.A.N. NO.: AECC250
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S2.03

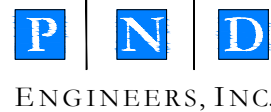
n:\25xxx\252065 aurora harbor ddf\g. drawings\S2.04-S2.06 Bridge Abutment.dwg - Bbrown - 5/8/2026



SUPPORT FLOAT - FRAMING PLAN



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SCALE:

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DESIGN
REVIEW**

DATE: 05/08/2025

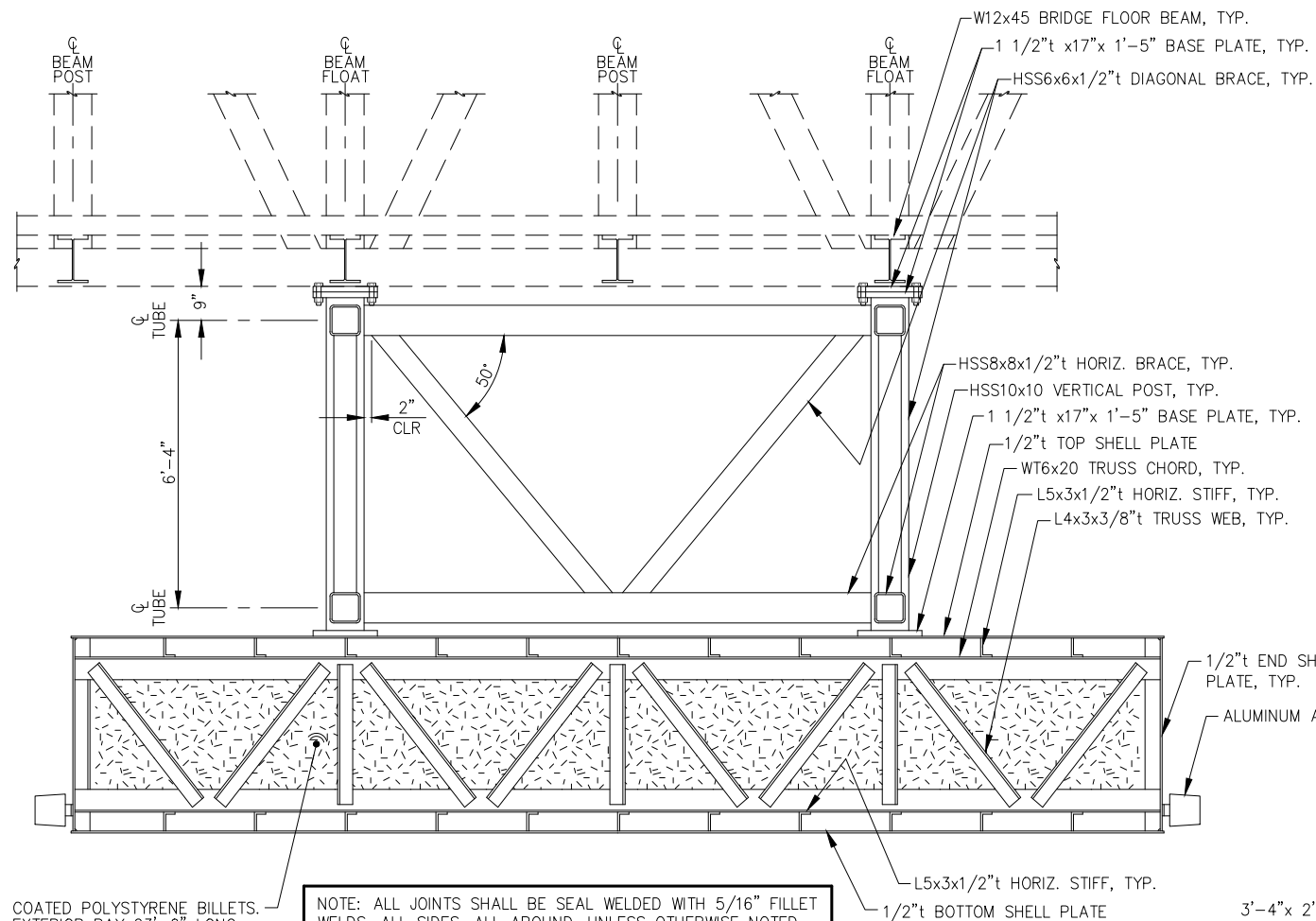
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
BRIDGE SUPPORT FLOAT

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S2.04

n:\25xxx\252065 aurora harbor dd\g. drawings\S2.04-S2.06 Bridge Abutment.dwg - Bbrown - 5/8/2026



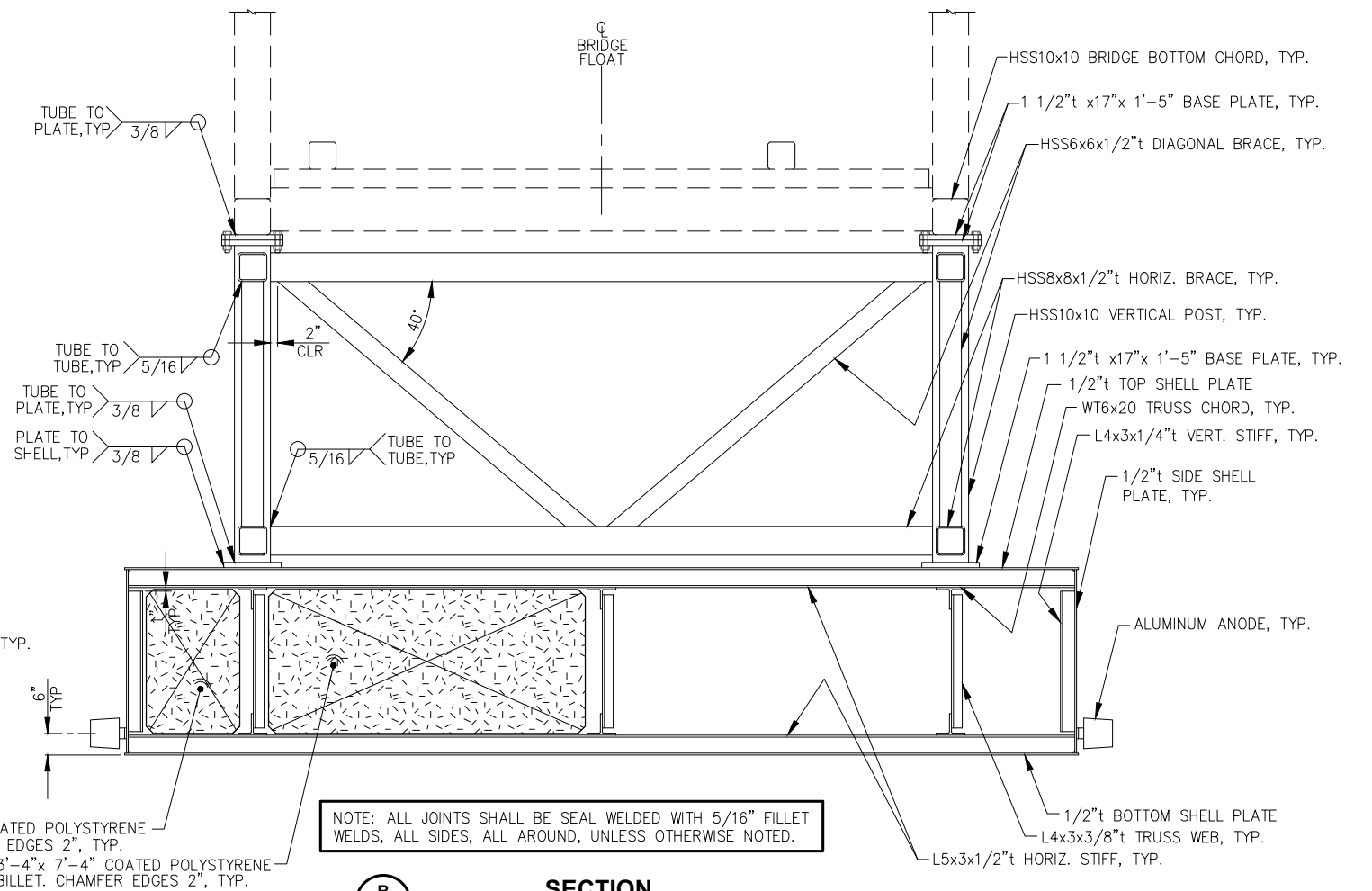
A
S2.04

SECTION

COATED POLYSTYRENE BILLET. EXTERIOR BAY 23'-0" LONG INTERIOR BAY (VARIES) FABRICATOR TO SUBMIT BILLET PLAN FOR ENGINEER REVIEW.

NOTE: ALL JOINTS SHALL BE SEAL WELDED WITH 5/16" FILLET WELDS, ALL SIDES, ALL AROUND, UNLESS OTHERWISE NOTED.

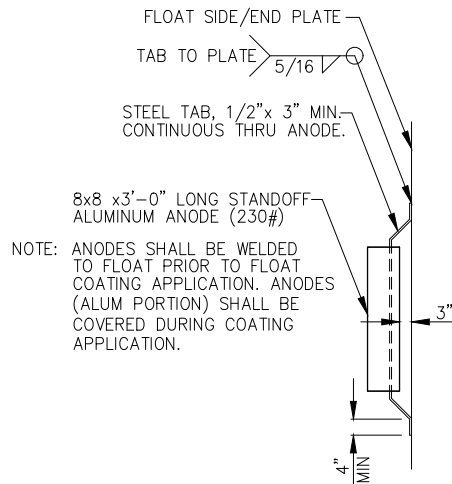
- GENERAL NOTES:
- 1) SUPPORT FLOAT AND BRIDGE WILL NOT BE STABLE PRIOR TO PLACEMENT AND CONNECTION TO DESIGNED BRIDGE ABUTMENT AND FLOAT BEARINGS. CONTRACTOR SHALL PROVIDE MEANS TO STABILIZE DURING CONSTRUCTION.
 - 2) SUPPORT FLOAT SHALL BE LEAK TESTED PER SPECIFICATIONS. FABRICATOR SHALL SUBMIT WRITTEN PROCEDURE FOR ENGINEER APPROVAL.



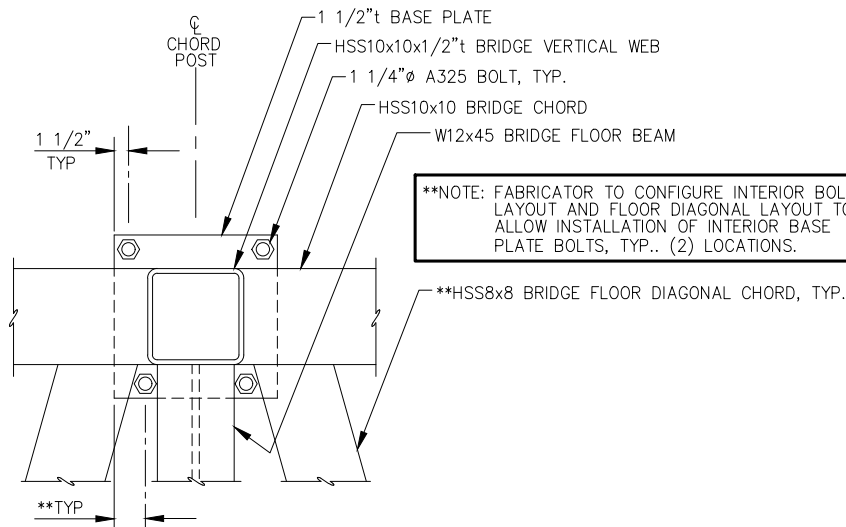
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S2.04

SECTION

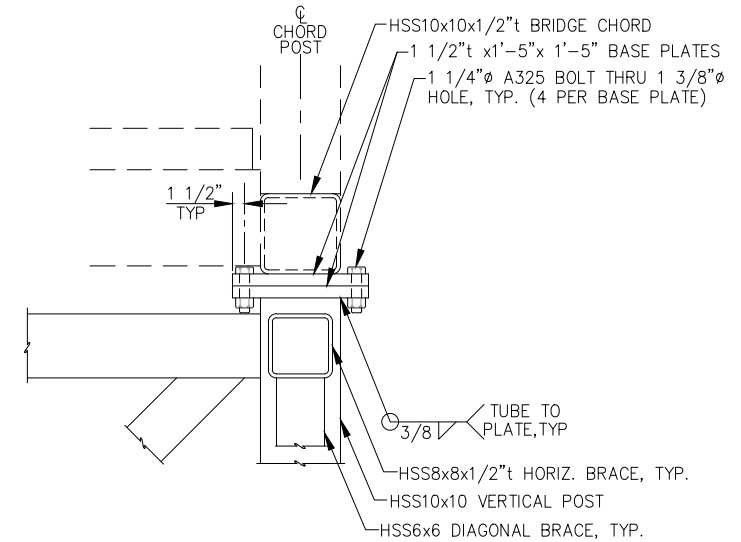
NOTE: ALL JOINTS SHALL BE SEAL WELDED WITH 5/16" FILLET WELDS, ALL SIDES, ALL AROUND, UNLESS OTHERWISE NOTED.



ANODE DETAIL
(8 TOTAL)



BASE PLATE - PLAN



BASE PLATE - TYPICAL SECTION



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SHEET TITLE:

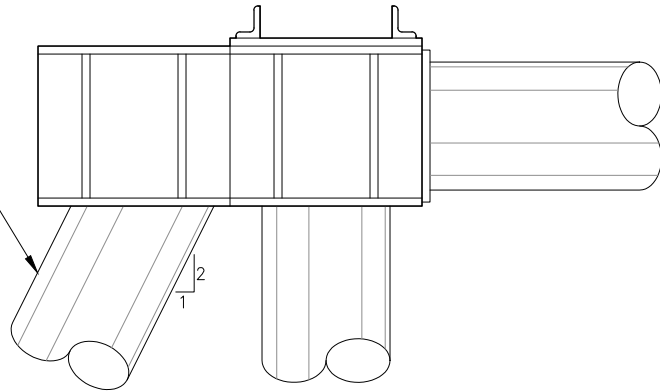
BRIDGE SUPPORT FLOAT

PND PROJECT #: 252065 C.A.N. NO.: AECC250

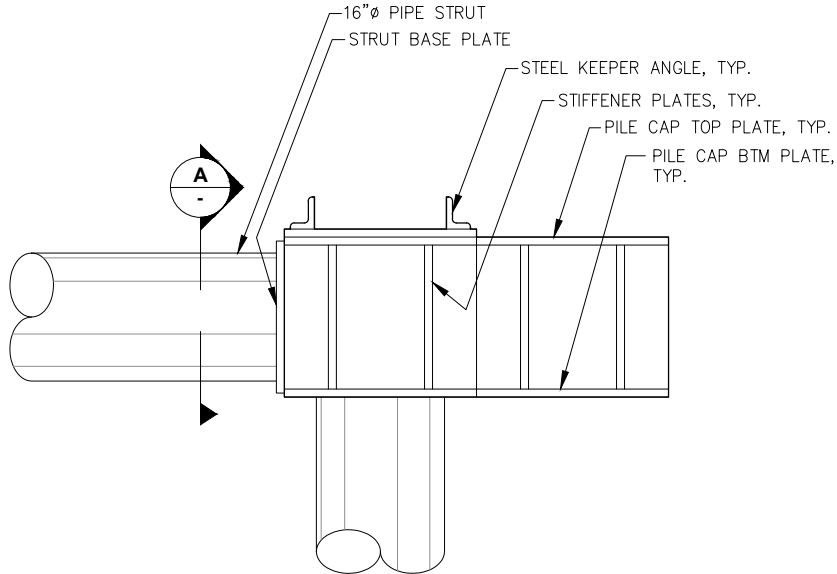
S2.05

n:\25xxx\252065 aurora harbor ddf\g. drawings\S2.04-S2.06 Bridge Abutment.dwg - Bbrown - 5/8/2026

BATTER PILE (SOUTH SIDE ONLY)

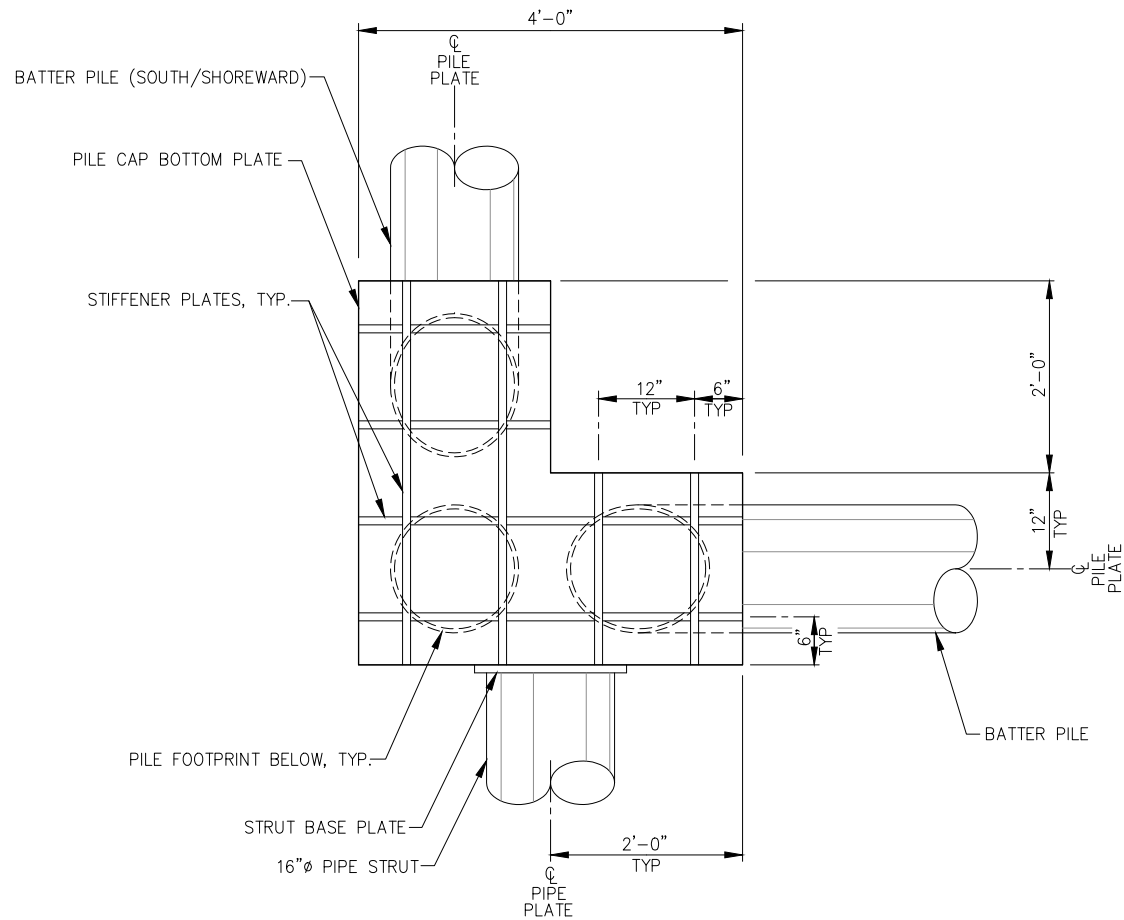


SOUTH PILE CAP



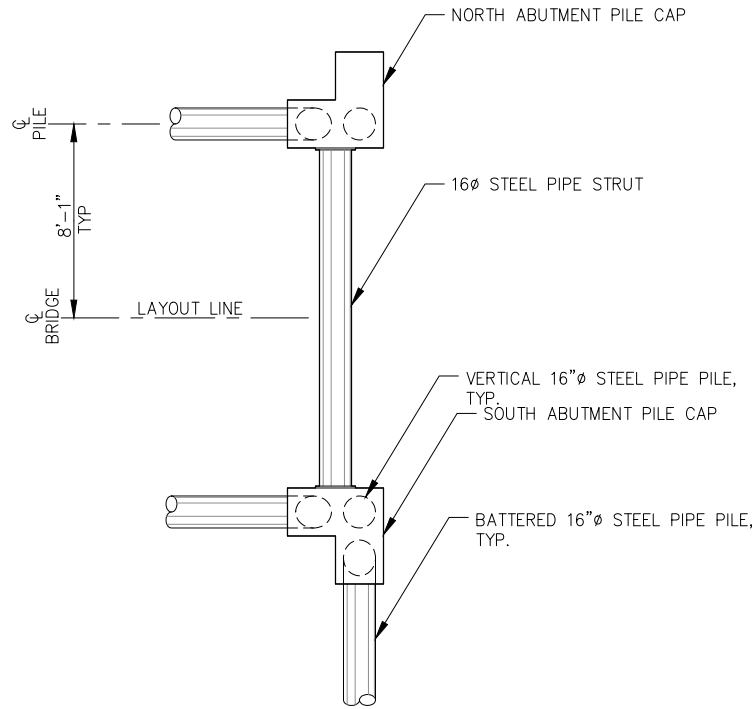
NORTH PILE CAP

ABUTMENT - ELEVATION

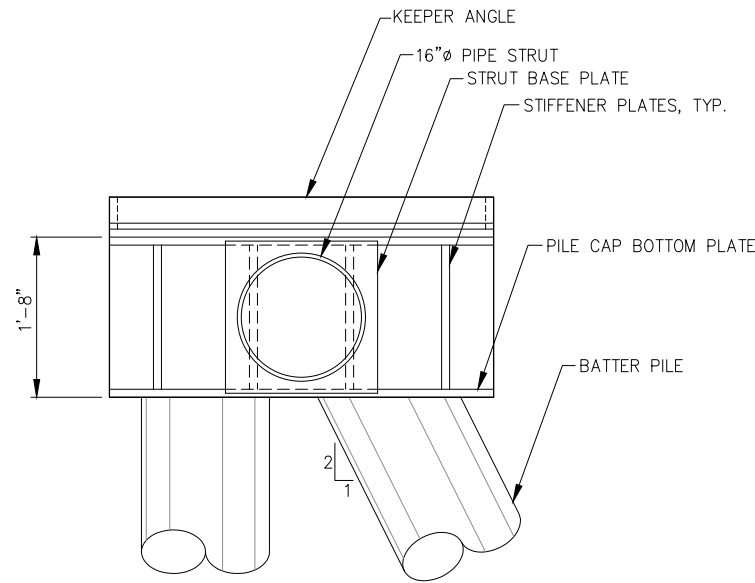


PILE CAP - BOTTOM PLATE PLAN

NOTE: SOUTH PILE CAP SHOWN; NORTH PILE CAP SIMILAR.



ABUTMENT - PLAN



PILE CAP - ELEVATION

NOTE: SOUTH PILE CAP ELEVATION SIMILAR.



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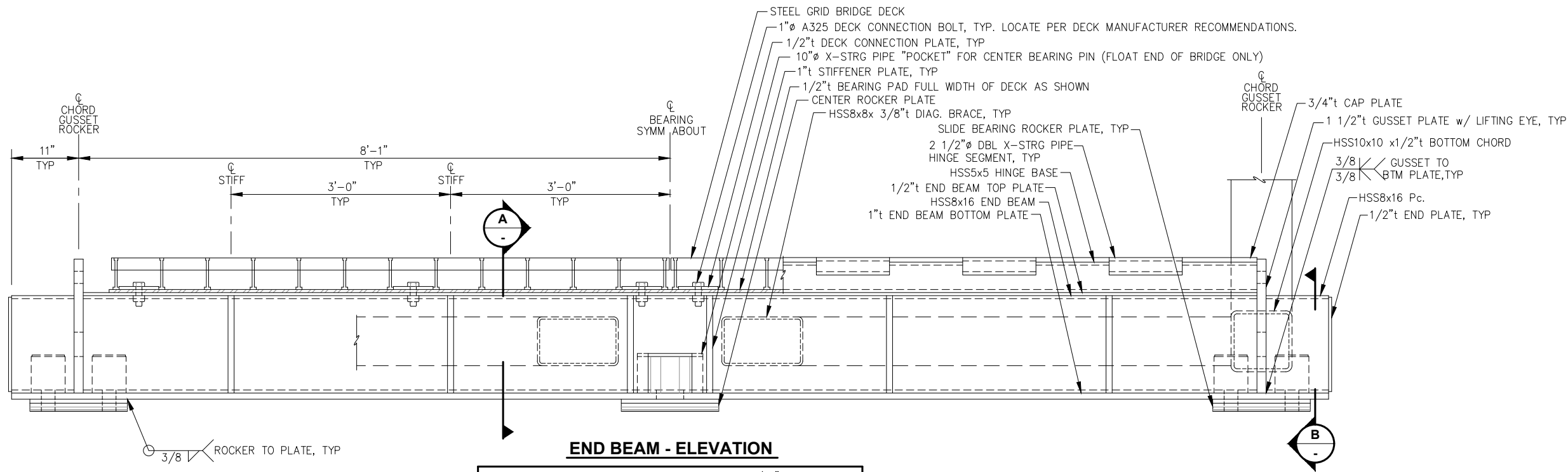
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AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

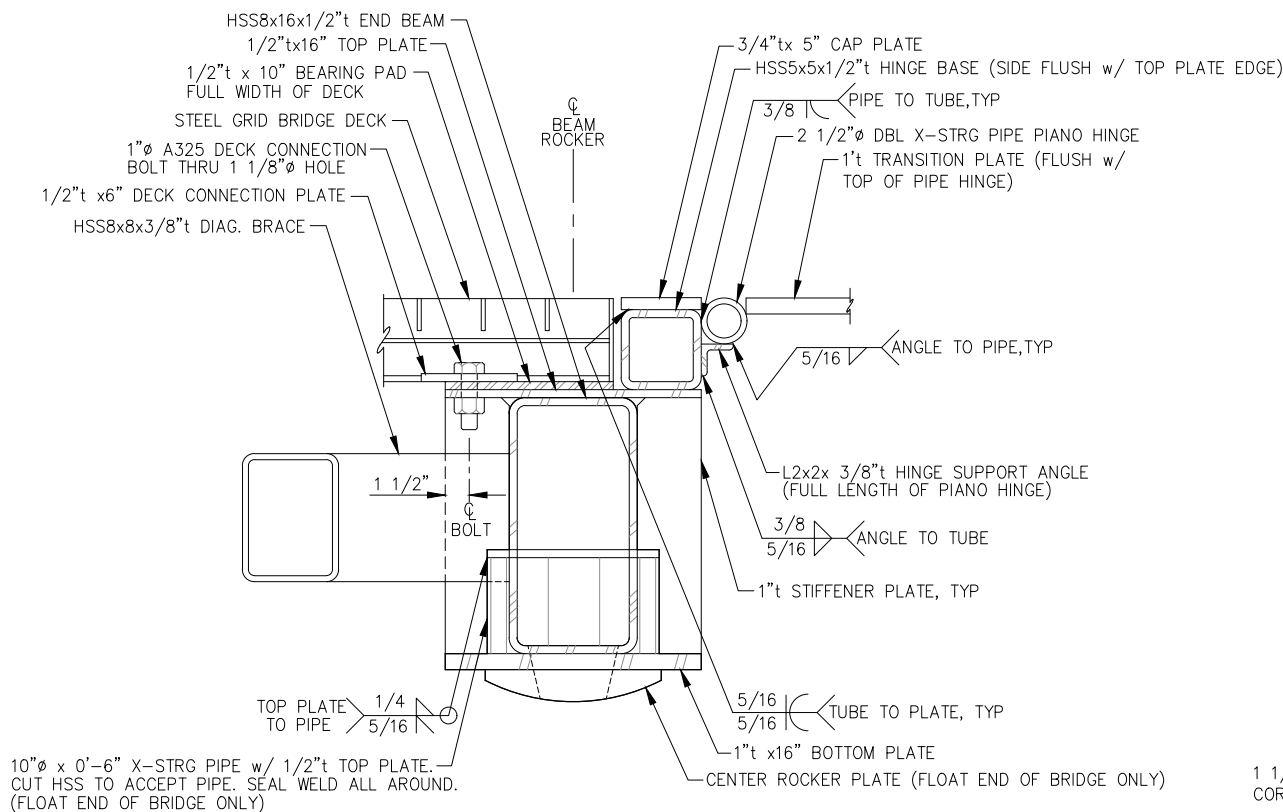
SHEET TITLE:
**ABUTMENT PLAN
AND ELEVATION**

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S2.06

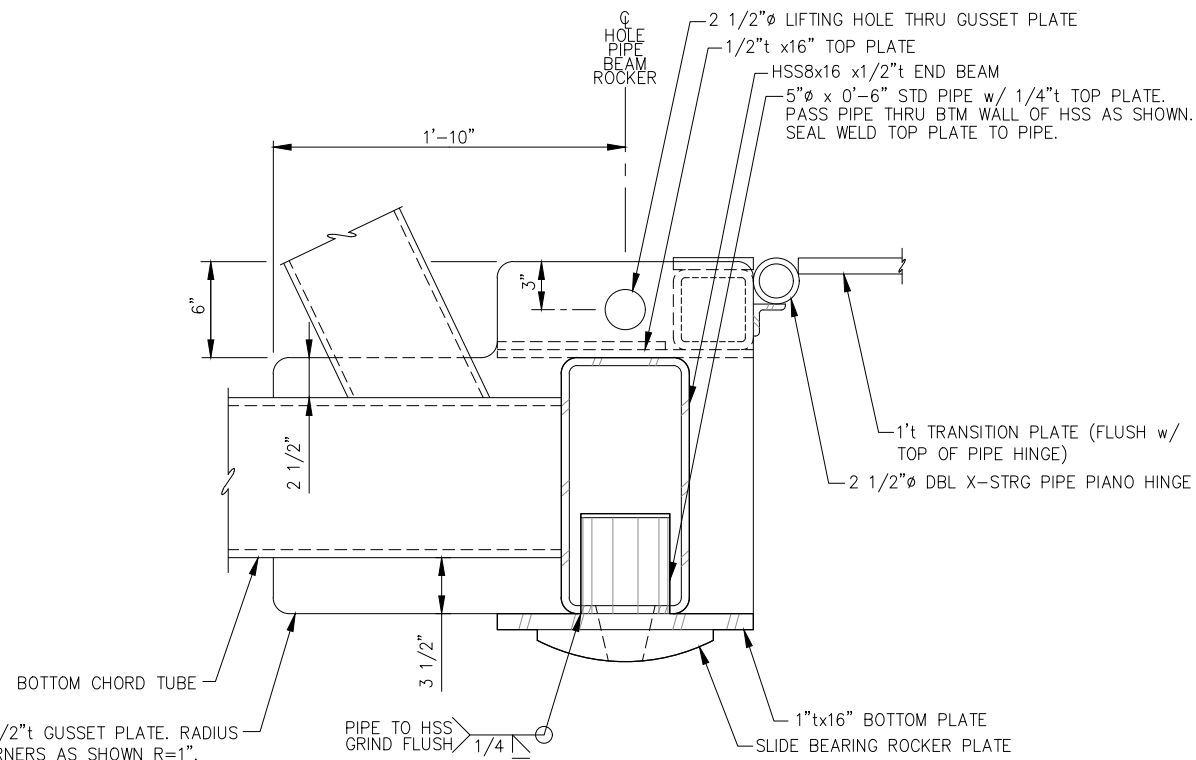


NOTE: ALL JOINTS SHALL BE SEAL WELDED WITH 5/16" FILLET WELDS, ALL SIDES, ALL AROUND, UNLESS OTHERWISE NOTED.



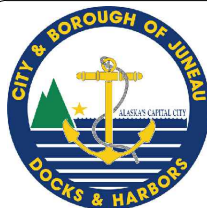
CENTER BEARING - SECTION

NOTE: BEVELED HOLE IN ROCKER PLATE SHALL EXTEND THRU END BEAM BTM. PLATE AND END BEAM AS SHOWN.

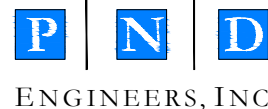


SLIDE BEARING - SECTION

NOTE: BEVELED HOLE IN ROCKER PLATE SHALL EXTEND THRU END BEAM BTM. PLATE AND END BEAM AS SHOWN.



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 CONTRACT NO. DH26-022**

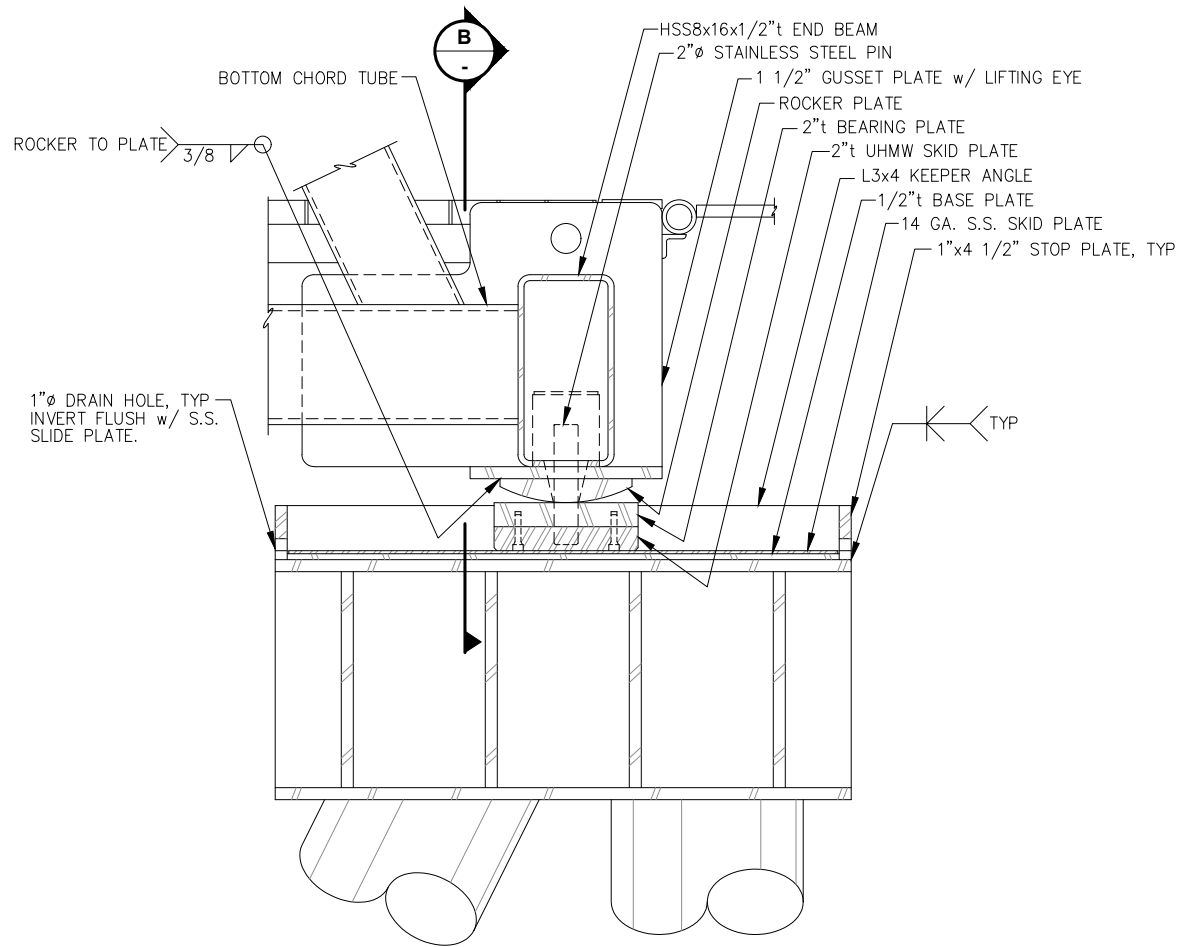
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END BEAM DETAILS

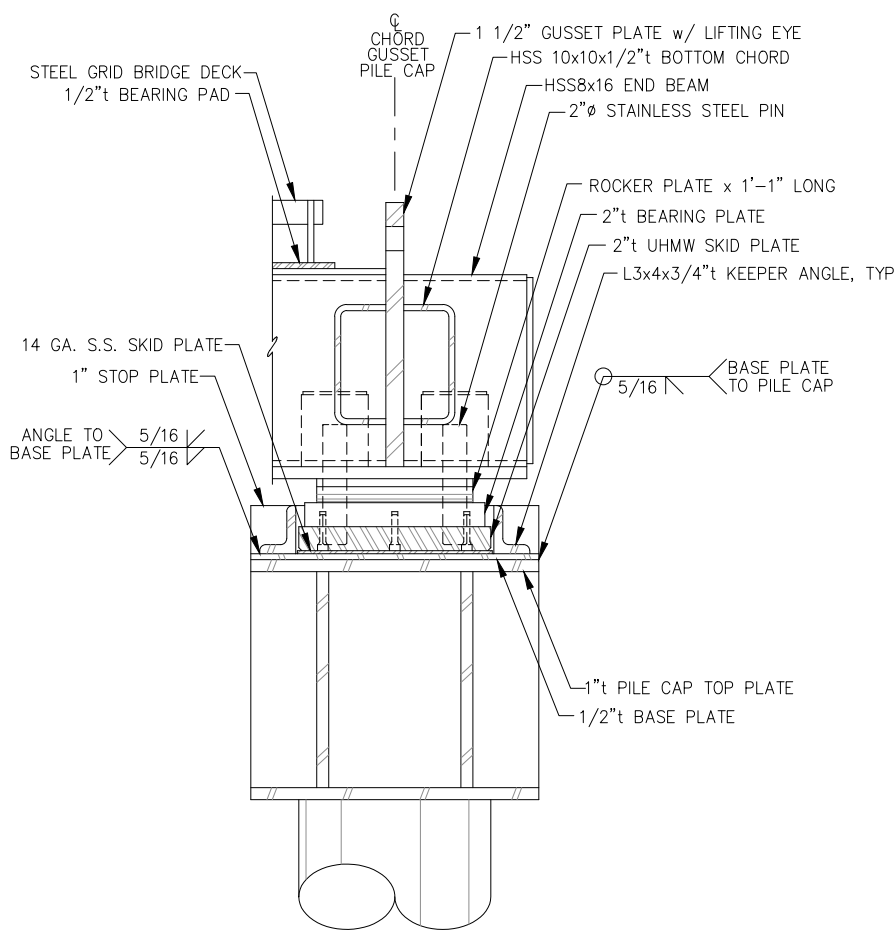
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S2.07

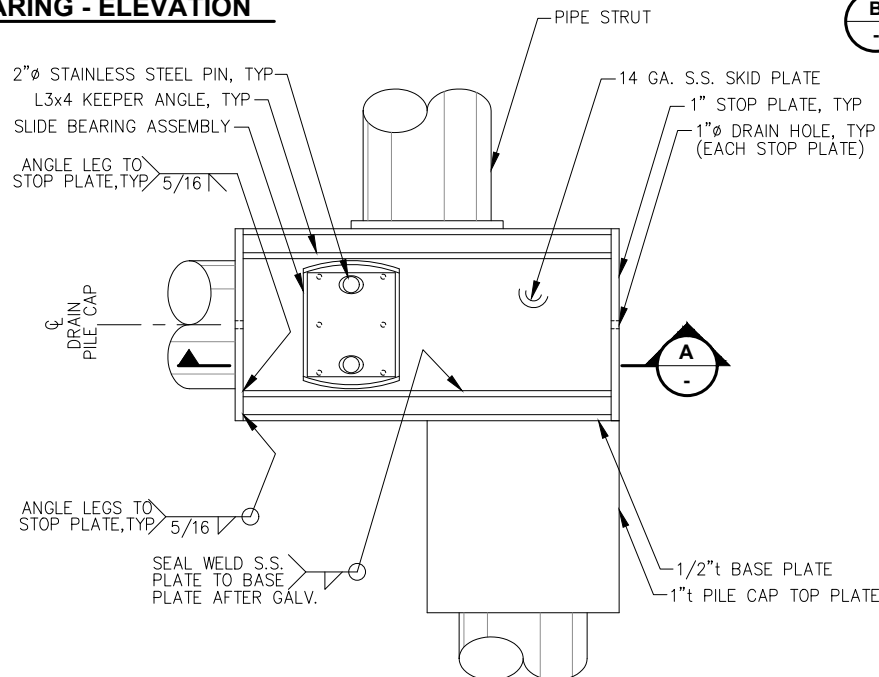
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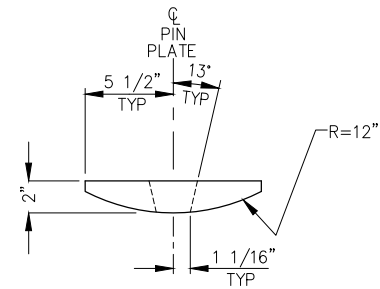
ABUTMENT BEARING - ELEVATION



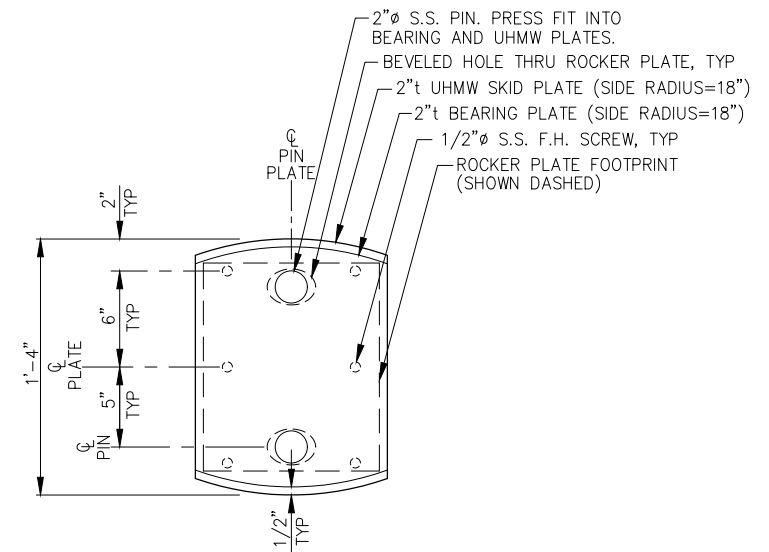
ABUTMENT BEARING - SECTION



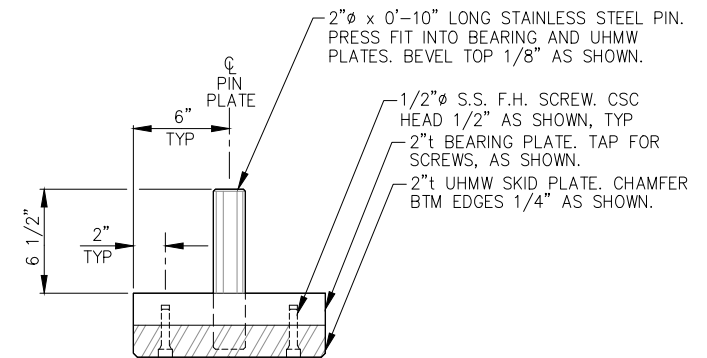
ABUTMENT BEARING - PLAN
(SOUTH PILE CAP SHOWN)



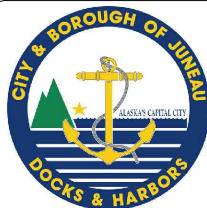
ROCKER PLATE - ELEVATION
(SLIDE BEARING - (2) TOTAL)



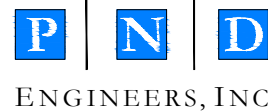
SLIDE BEARING - PLAN



SLIDE BEARING - ELEVATION



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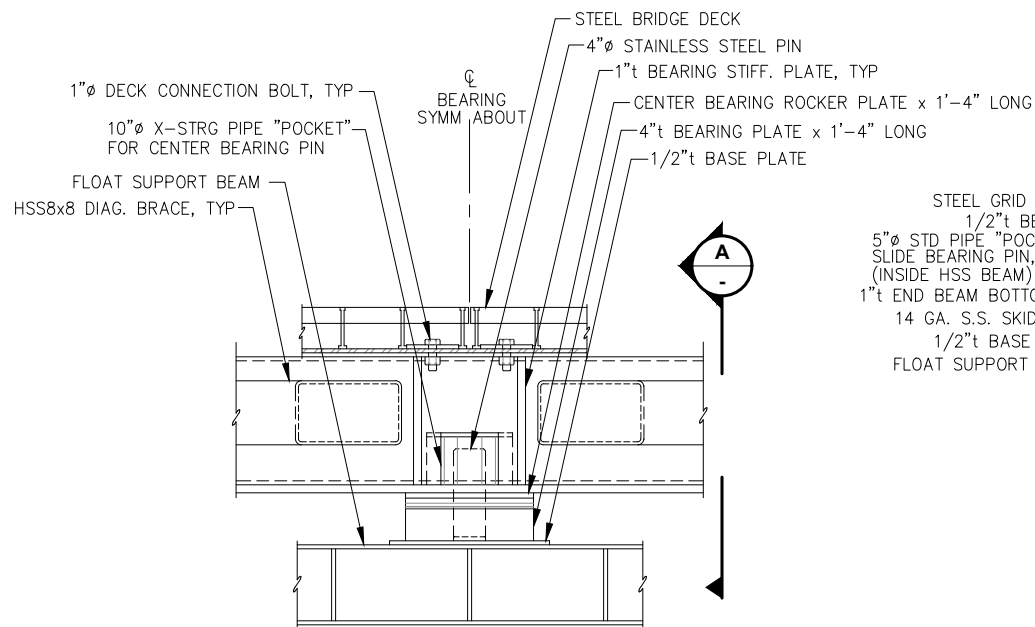
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
**ABUTMENT BEARING
DETAILS**

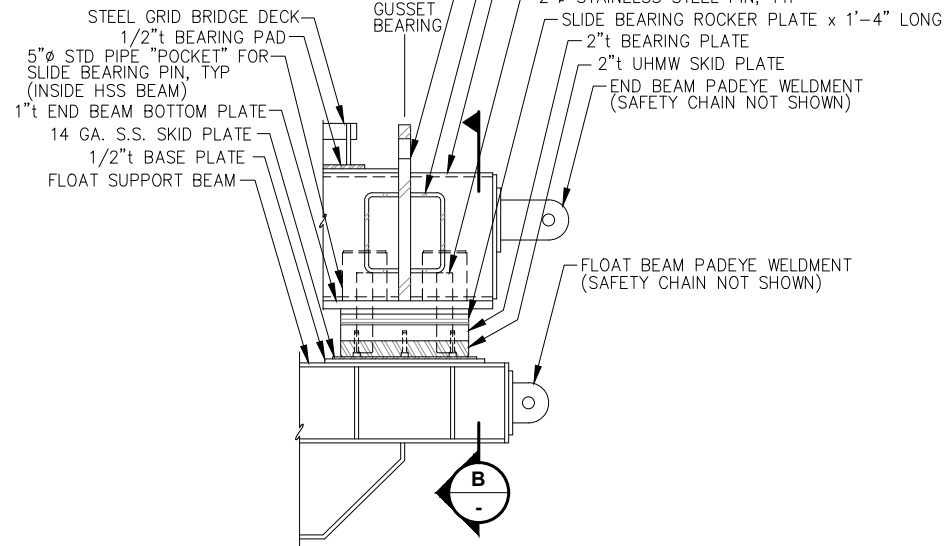
PND PROJECT #: 252065 C.A.N. NO.: AECC250

S2.08

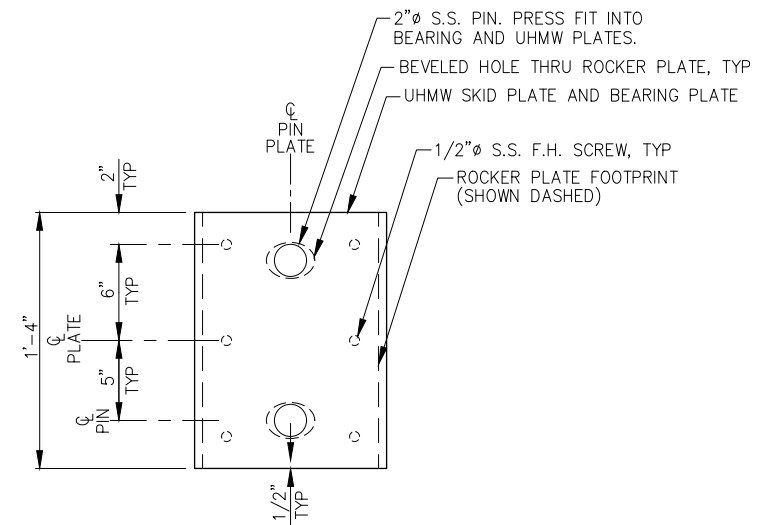
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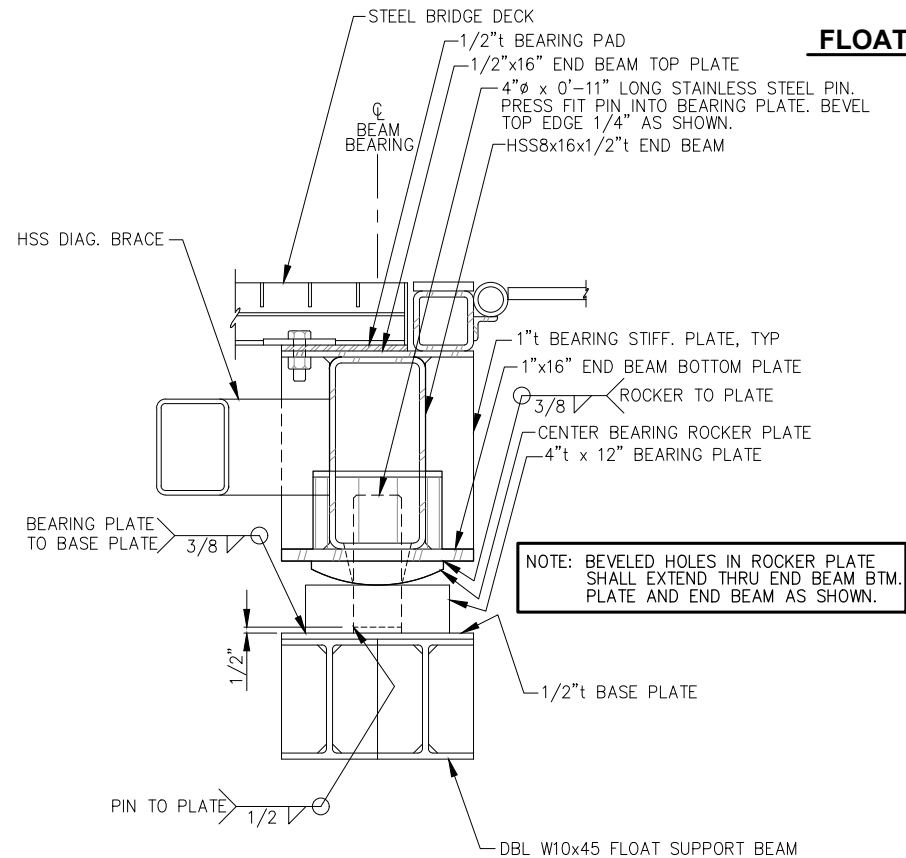
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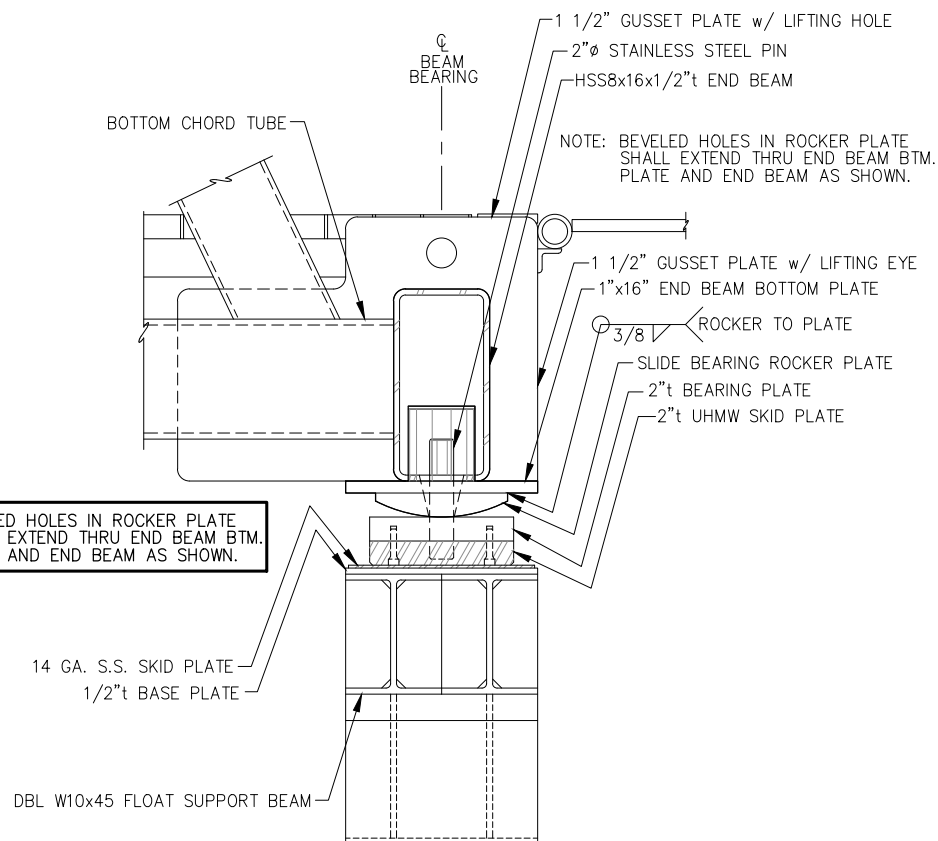
SLIDE BEARING



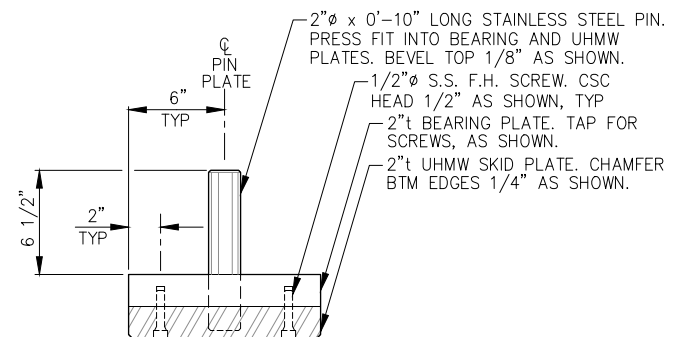
SLIDE BEARING - PLAN



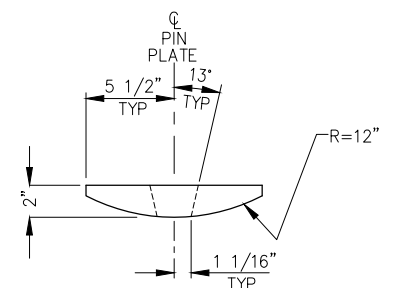
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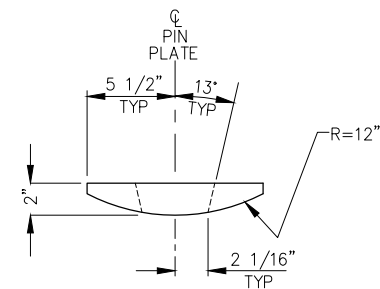
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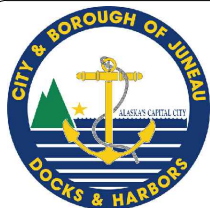
SLIDE BEARING - ELEVATION



ROCKER PLATE - ELEVATION
(SLIDE BEARING - (2) TOTAL)



ROCKER PLATE - ELEVATION
(CENTER BEARING - (1) TOTAL)



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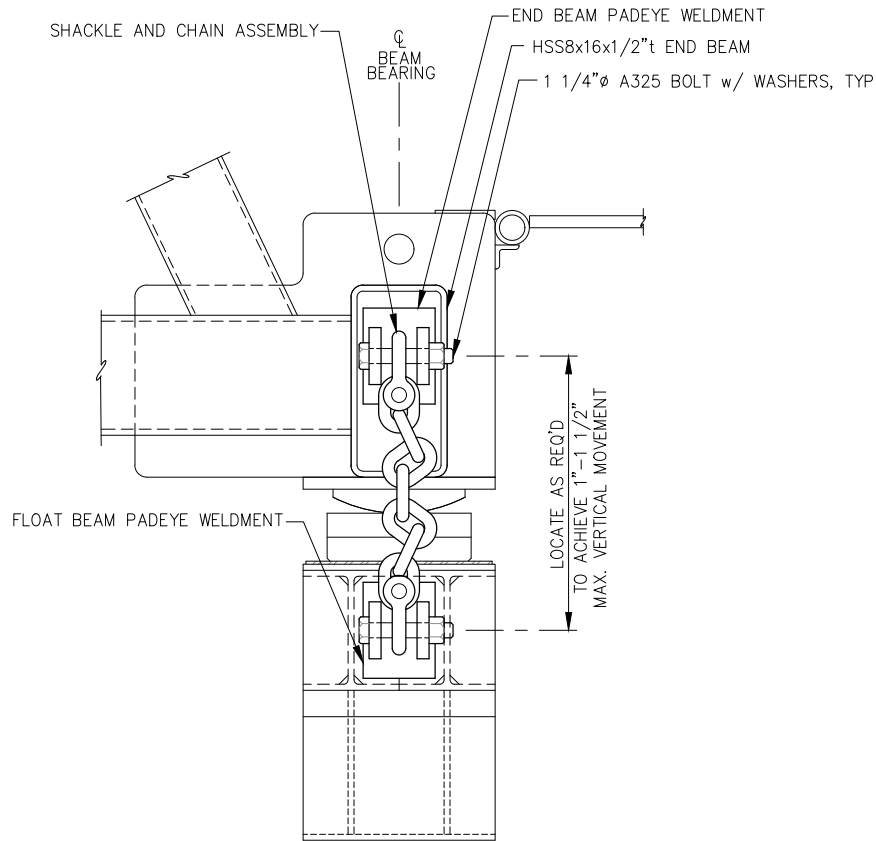
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
**FLOAT BEARING
DETAILS**

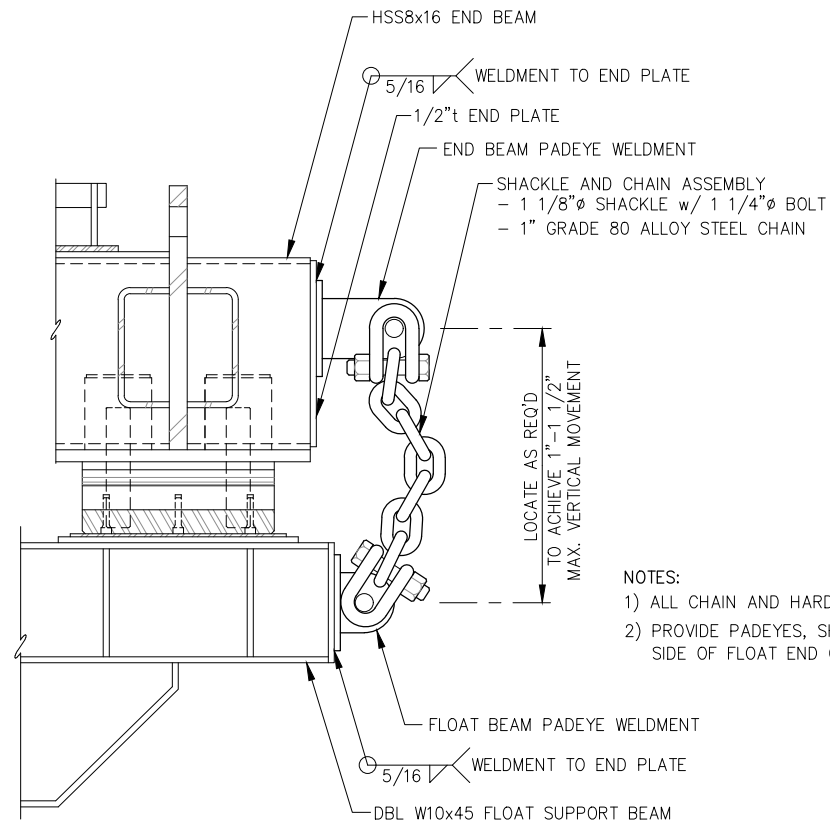
PND PROJECT #: 252065 C.A.N. NO.: AECC250

S2.09

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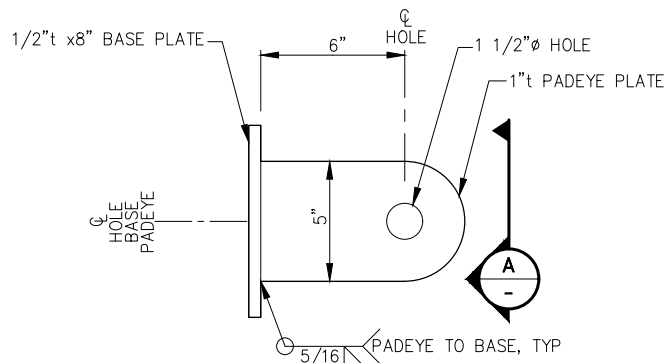


SLIDE BEARING - SIDE ELEVATION

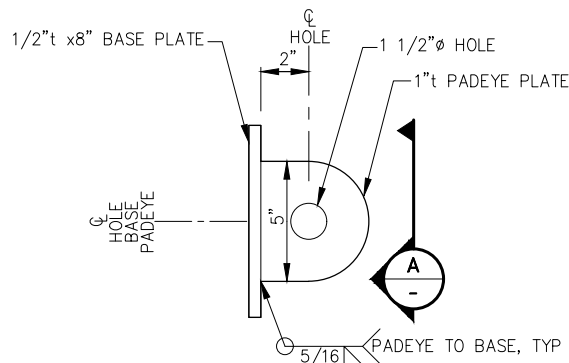


- NOTES:
- 1) ALL CHAIN AND HARDWARE TO BE HOT-DIP GALVANIZED.
 - 2) PROVIDE PADEYES, SHACKLES AND CHAIN EA. SIDE OF FLOAT END OF BRIDGE.

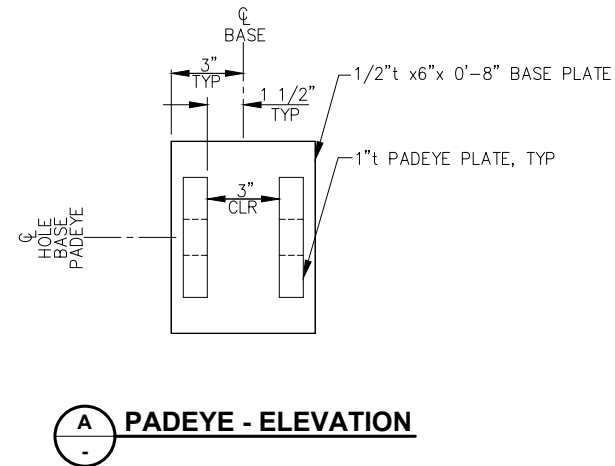
SLIDE BEARING - FRONT ELEVATION



END BEAM PADEYE



FLOAT BEAM PADEYE



PADEYE - ELEVATION



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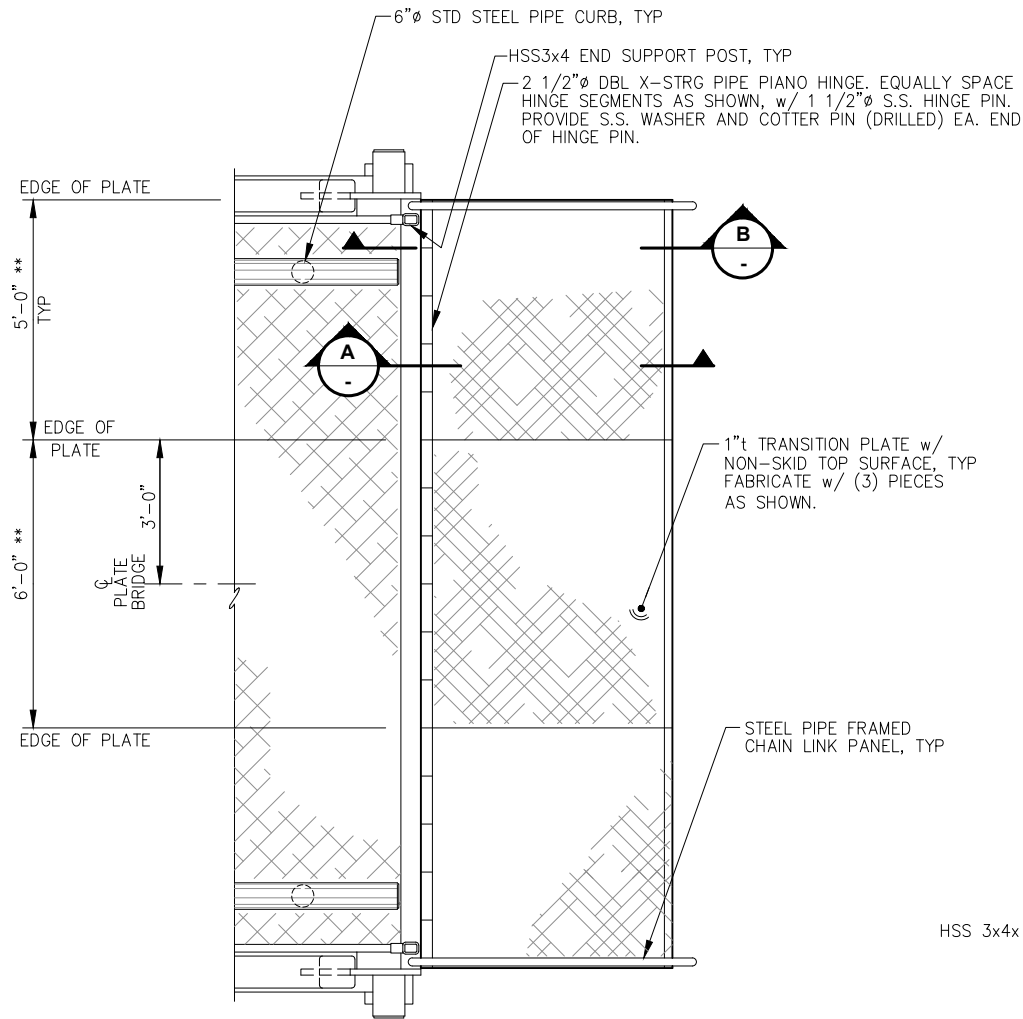
**CITY & BOROUGH OF JUNEAU, ALASKA
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CONTRACT NO. DH26-022**

SHEET TITLE:
SAFETY CHAIN DETAILS

PND PROJECT #: 252065 C.A.N. NO.: AECC250

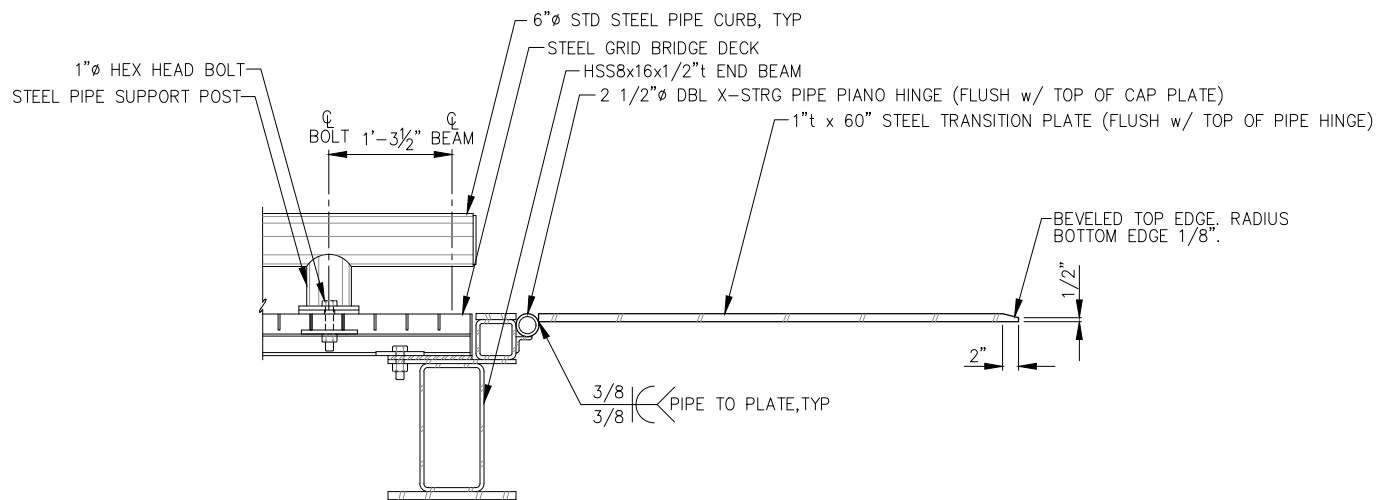
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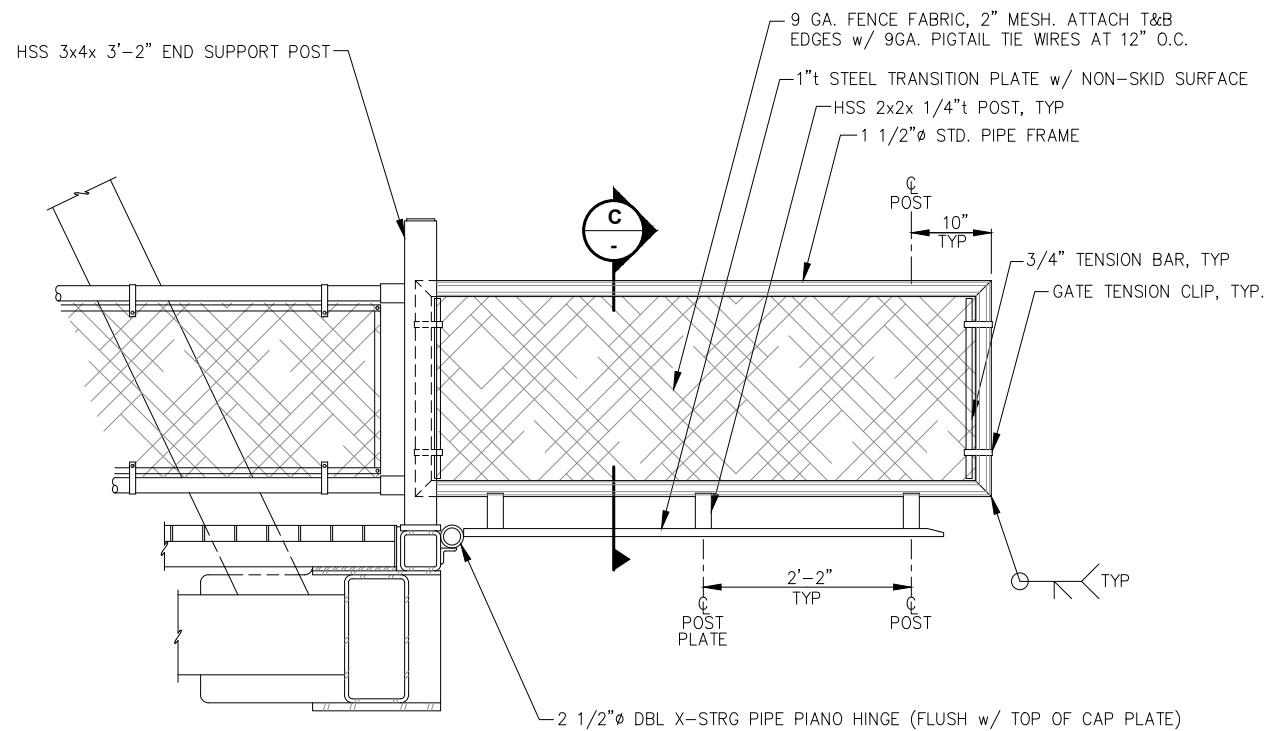


TRANSITION PLATE - PLAN

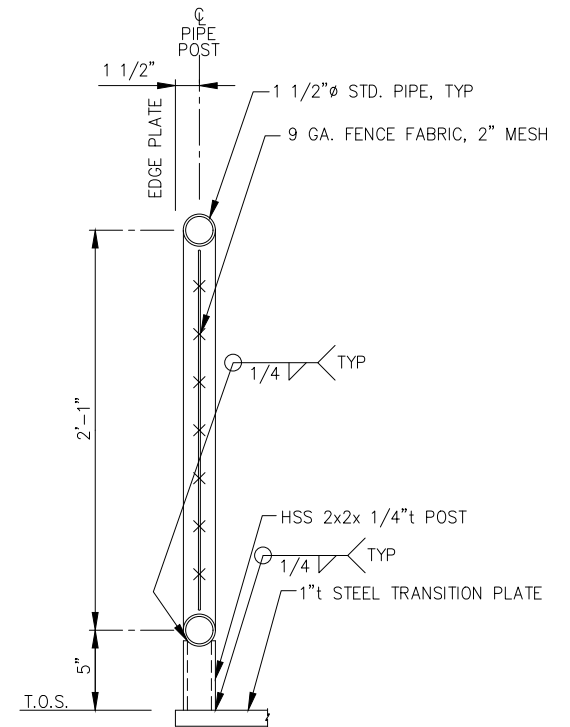
** NOTE: WIDTH OF PLATE AND/OR SPACE BETWEEN PLATES TO BE AS REQUIRED FOR PLATES TO ROTATE FREELY ABOUT PIANO HINGE.



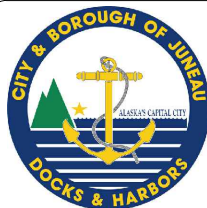
A SECTION



B SECTION



C SECTION



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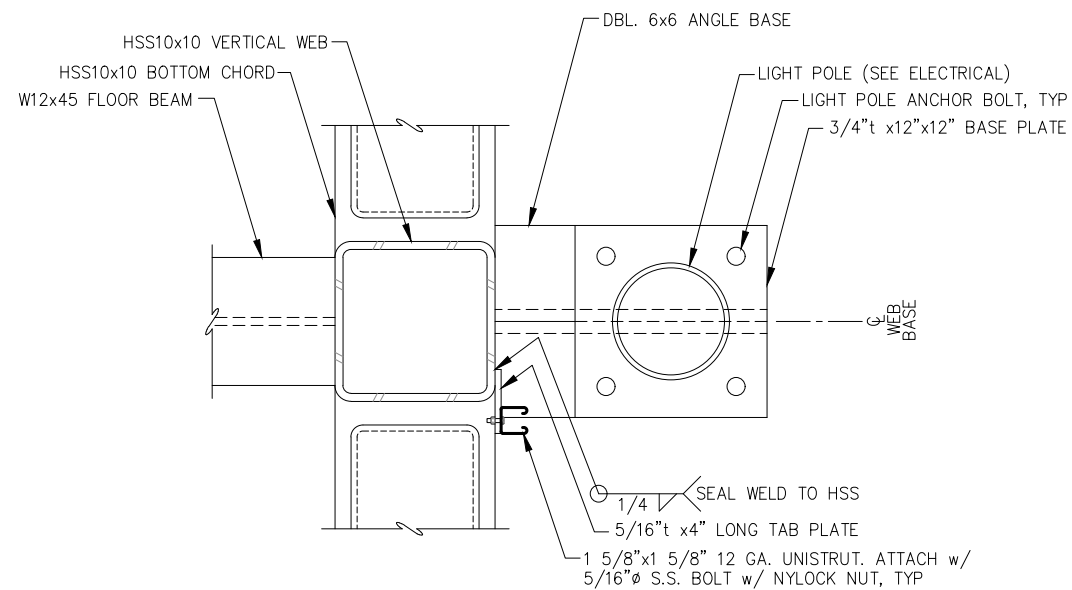
CITY & BOROUGH OF JUNEAU, ALASKA
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CONTRACT NO. DH26-022

SHEET TITLE:
**TRANSITION PLATE
DETAILS**

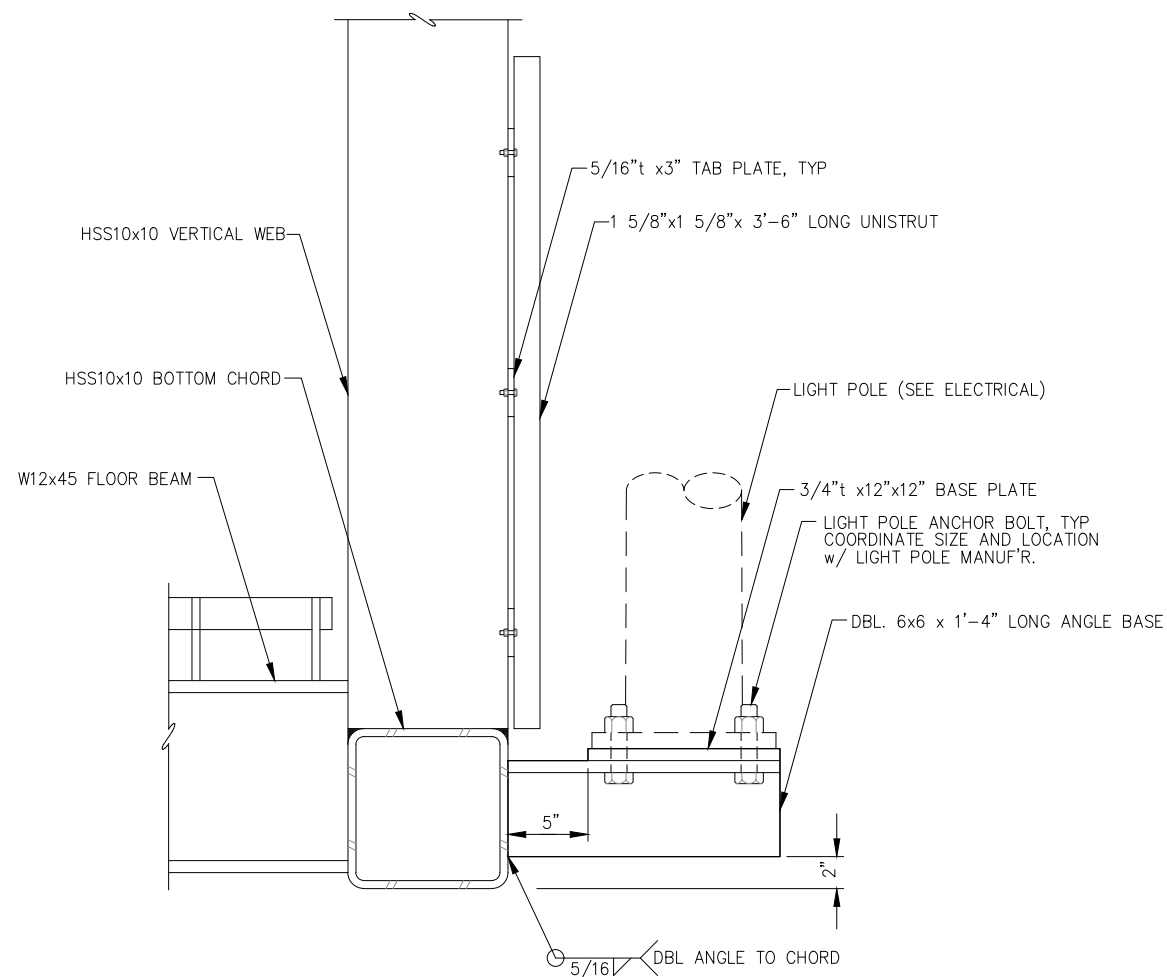
PND PROJECT #: 252065 C.A.N. NO.: AECC250

S2.11

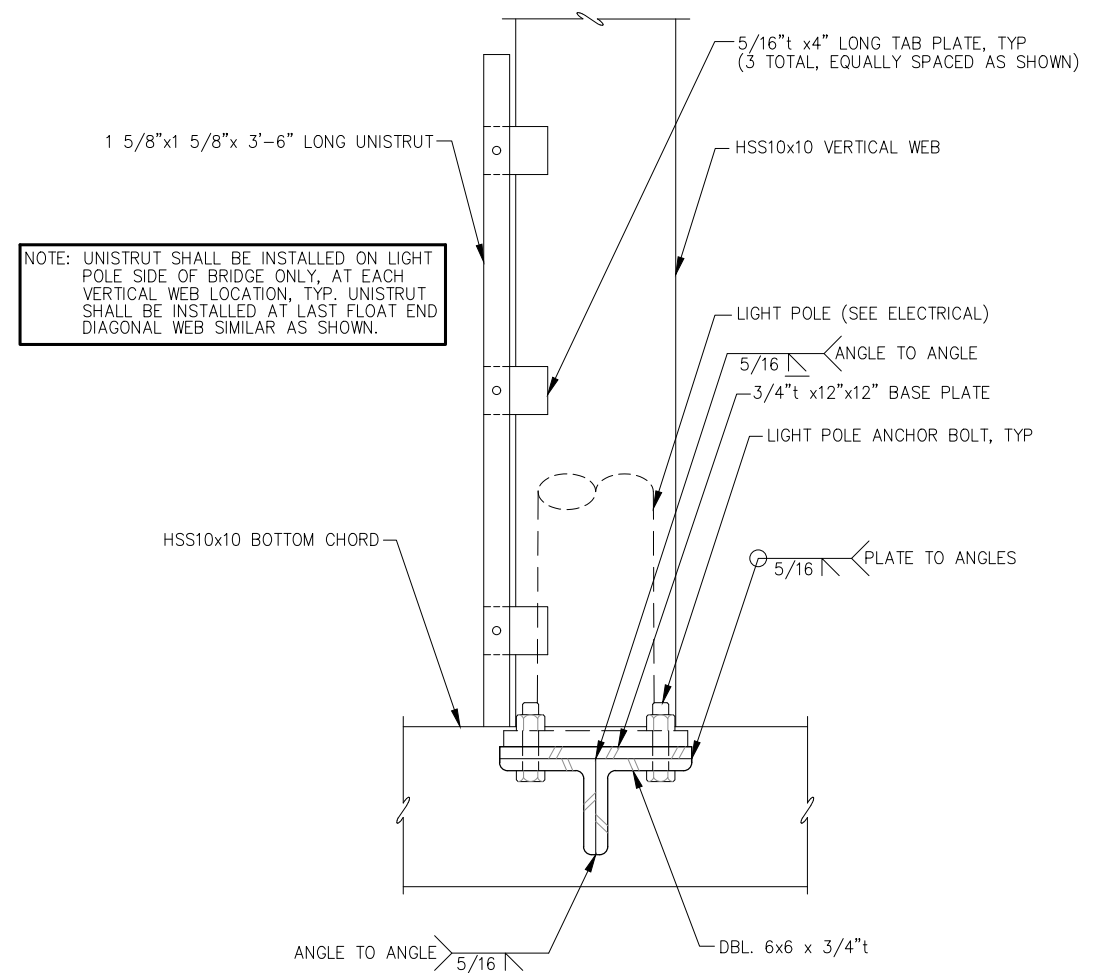
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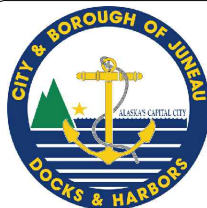
LIGHT POLE BASE - PLAN



LIGHT POLE BASE - ELEVATION



LIGHT POLE BASE - ELEVATION



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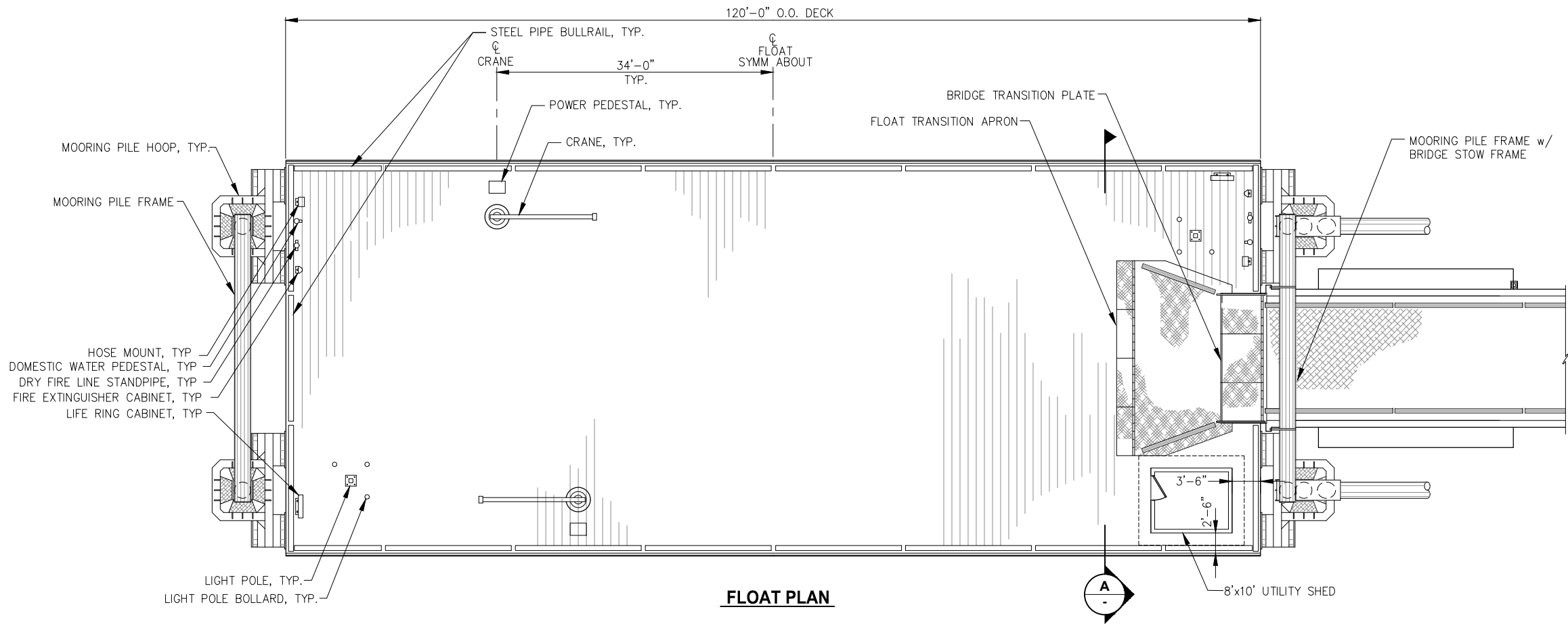
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

**SHEET TITLE:
EQUIPMENT SUPPORT
DETAILS**

PND PROJECT #: 252065 C.A.N. NO.: AECC250

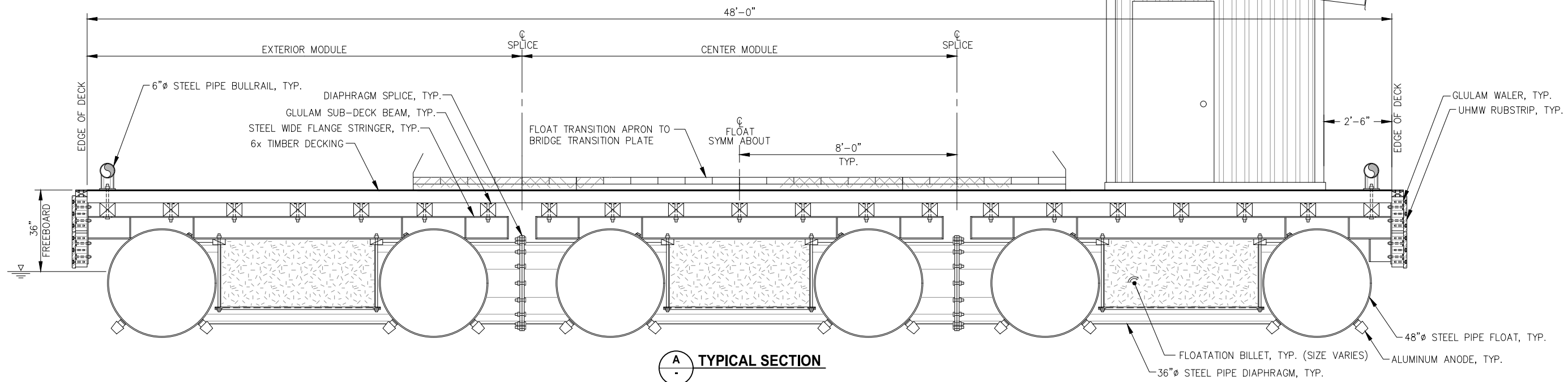
S2.12

n:\25xxx\252065 aurora harbor.dwg, drawings\S3.01 and S3.08 Float Plan and Section.dwg - Bbrown - 5/8/2026



Float Plan

DESIGN CRITERIA:
DEAD LOAD: WEIGHT OF ALL MATERIALS OF CONSTRUCTION.
LIVE LOAD: AASHTO HS20 (17TH EDITION, 2009)
60 PSF UNIFORM



Typical Section



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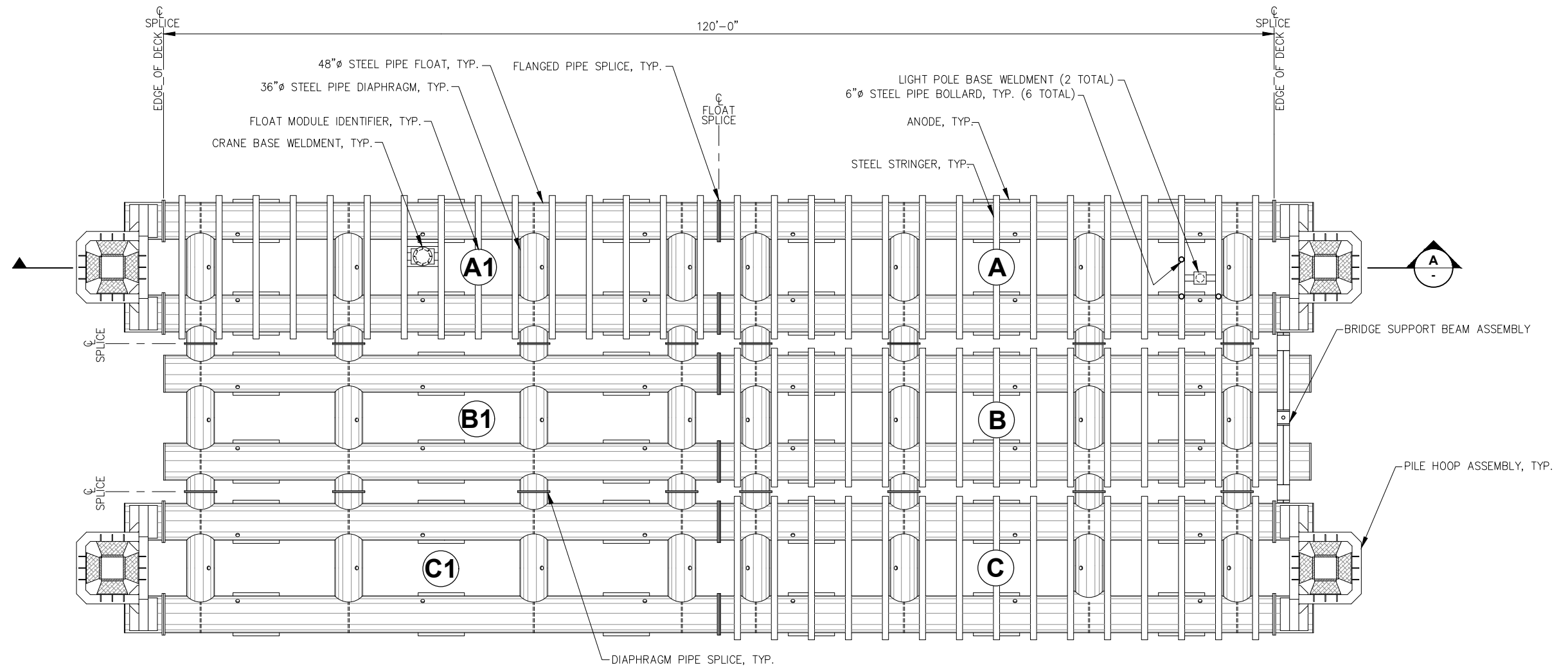
CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
**OVERALL PLAN AND
TYPICAL SECTION**

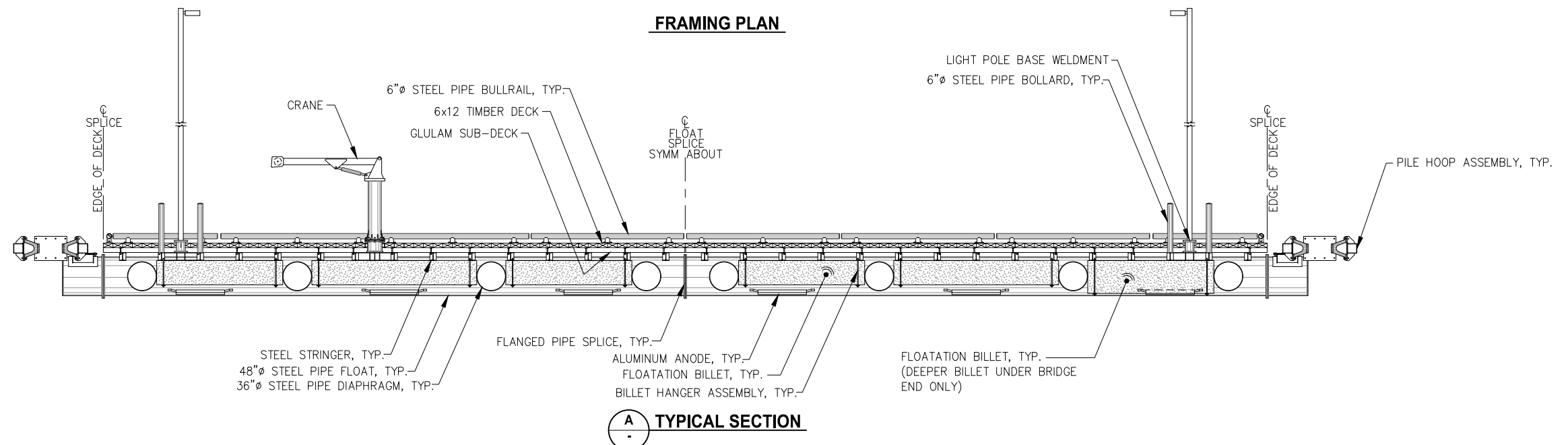
PND PROJECT #: 252065 C.A.N. NO.: AECC250

S3.01

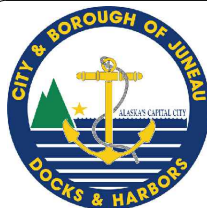
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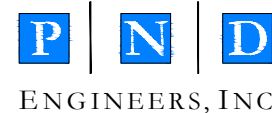
FRAMING PLAN



TYPICAL SECTION



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SCALE: NTS

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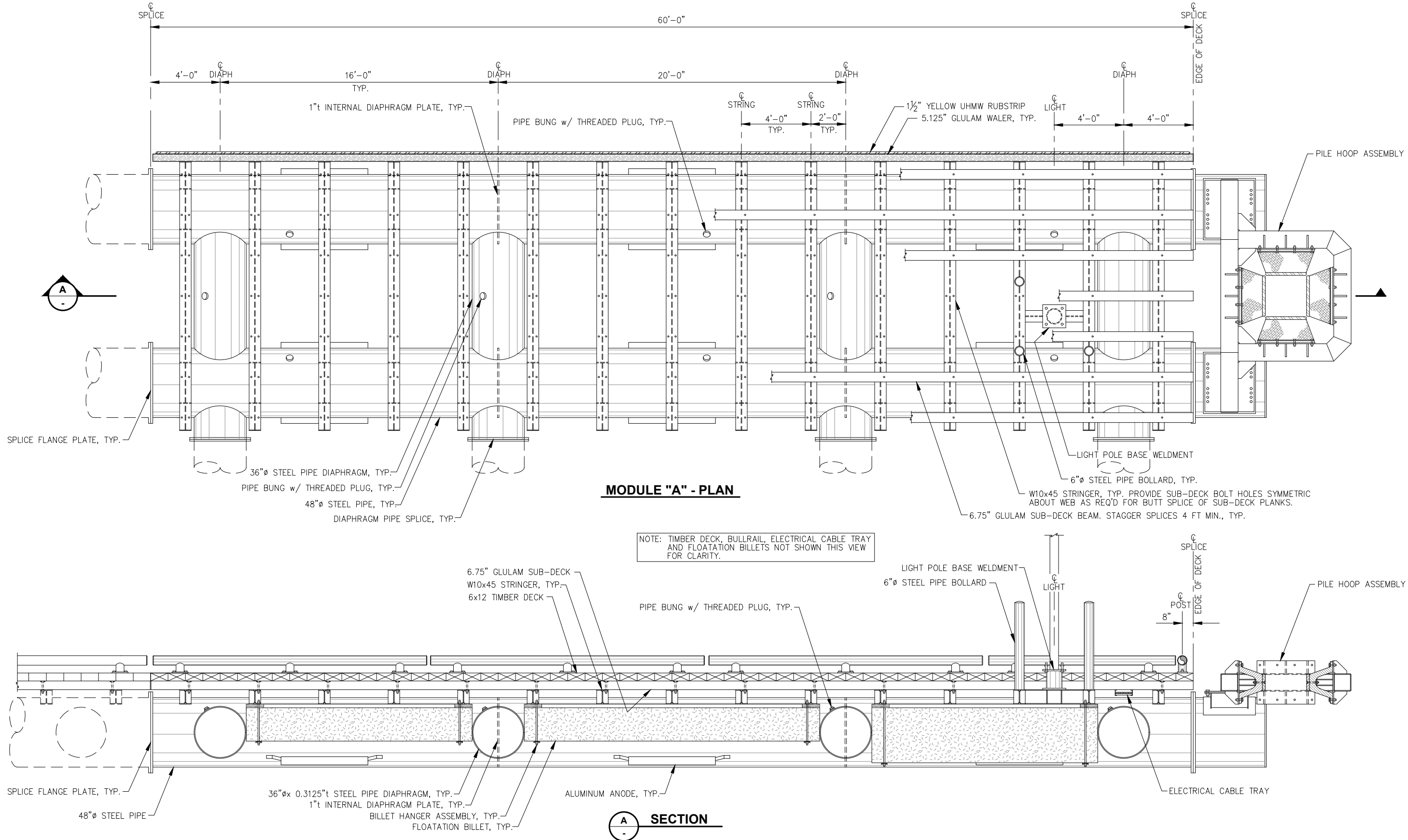
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
**FRAMING PLAN AND
TYPICAL SECTION**

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S3.02

n:\25xxx\252065 aurora harbor.dwg, drawings\S3.01 and S3.08 Float Plan and Section.dwg - Bbrown - 5/8/2026



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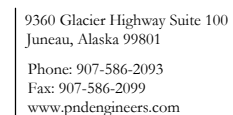
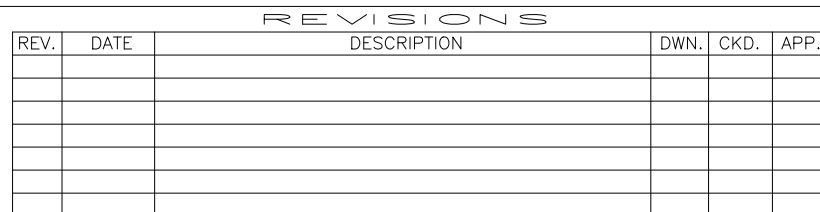
DATE: 05/08/2025

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CONTRACT NO. DH26-022**

SHEET TITLE:
FLOAT MODULE "A"

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S3.03

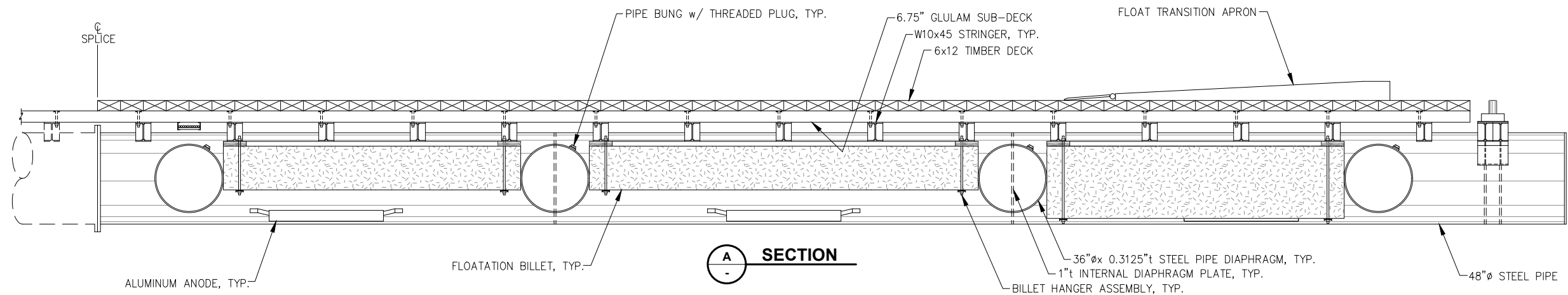
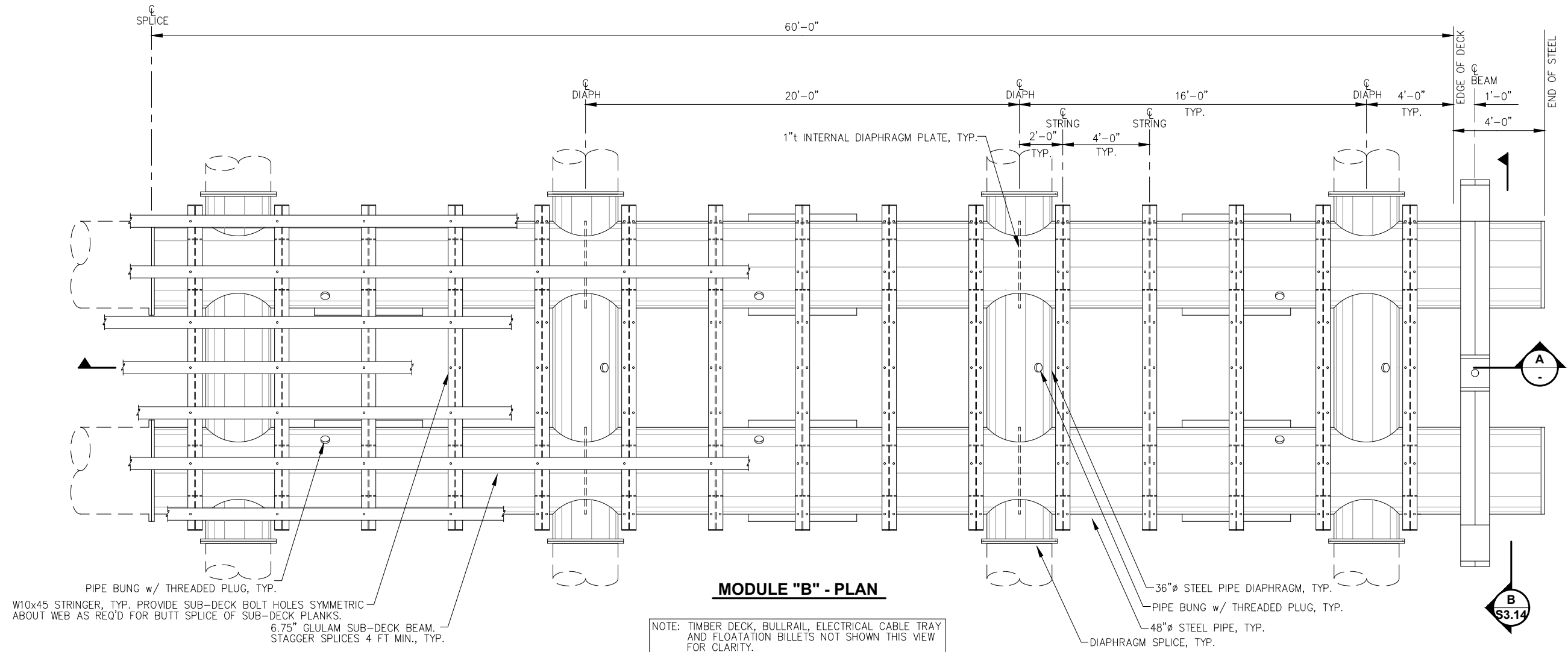


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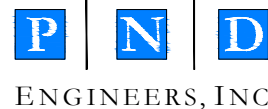
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PND PROJECT #: 252065	C.A.N. NO.: AECC250
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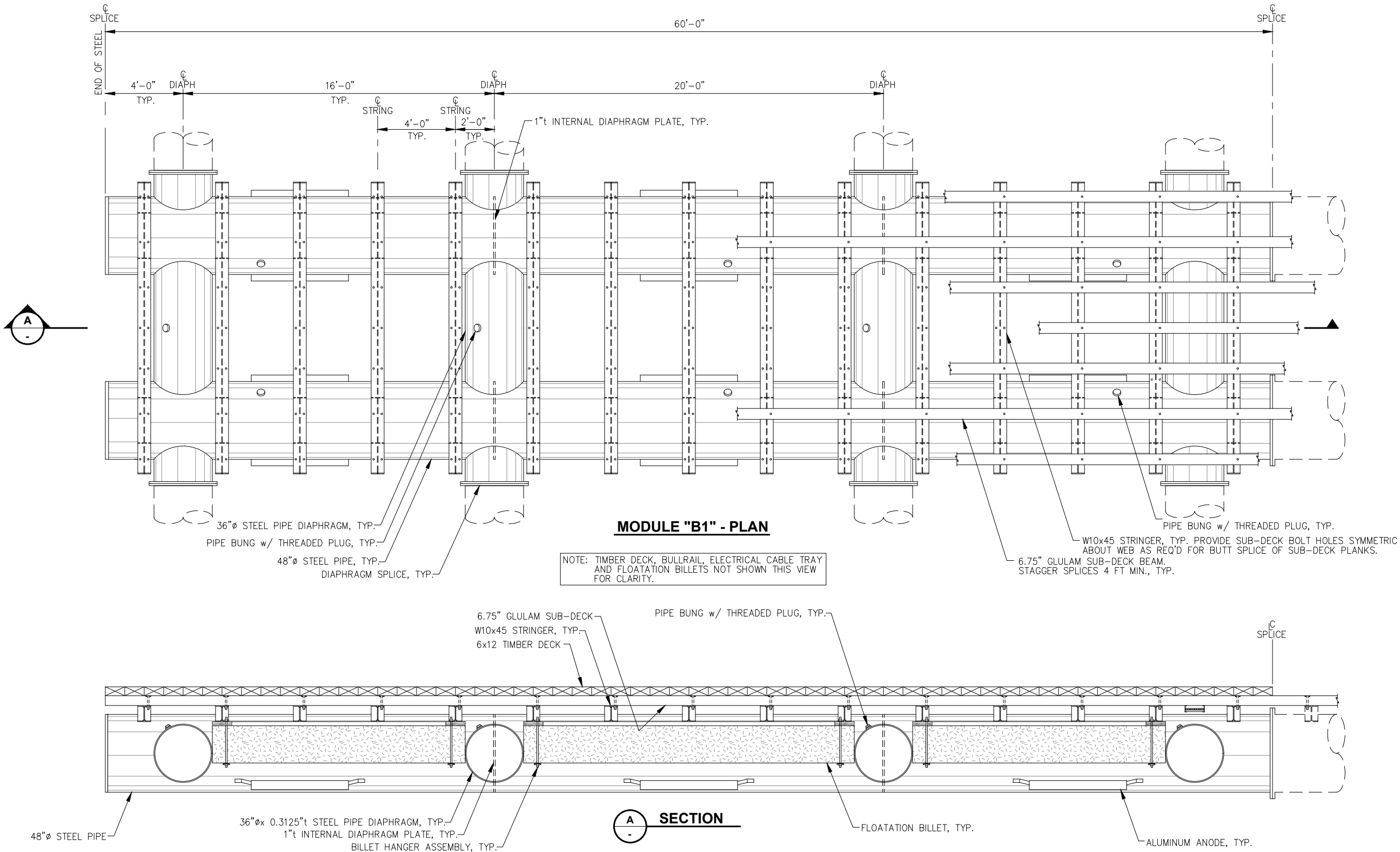
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FLOAT MODULE "B"

S3.05

PND PROJECT #: 252065 C.A.N. NO.: AECC250

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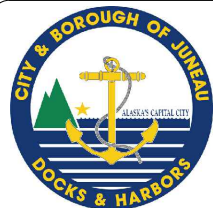
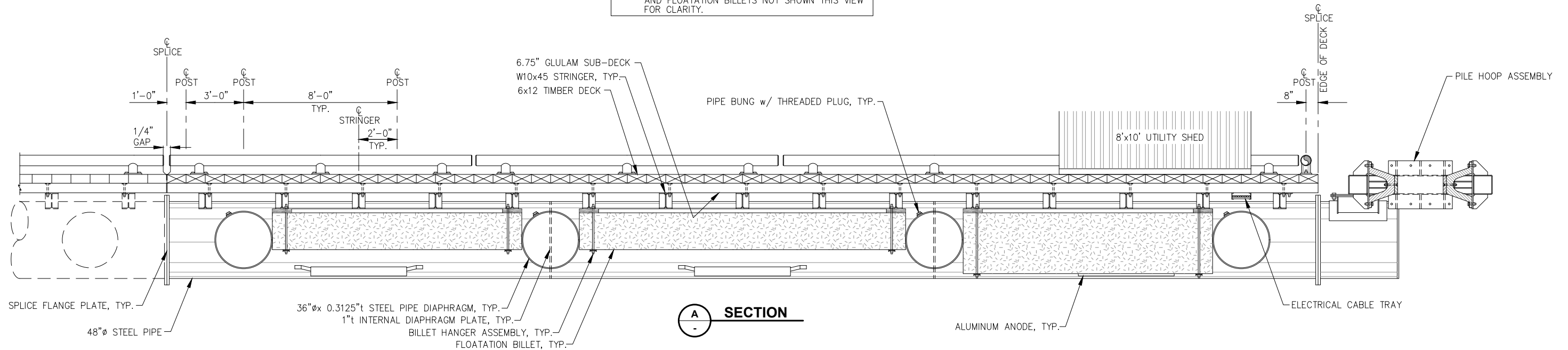
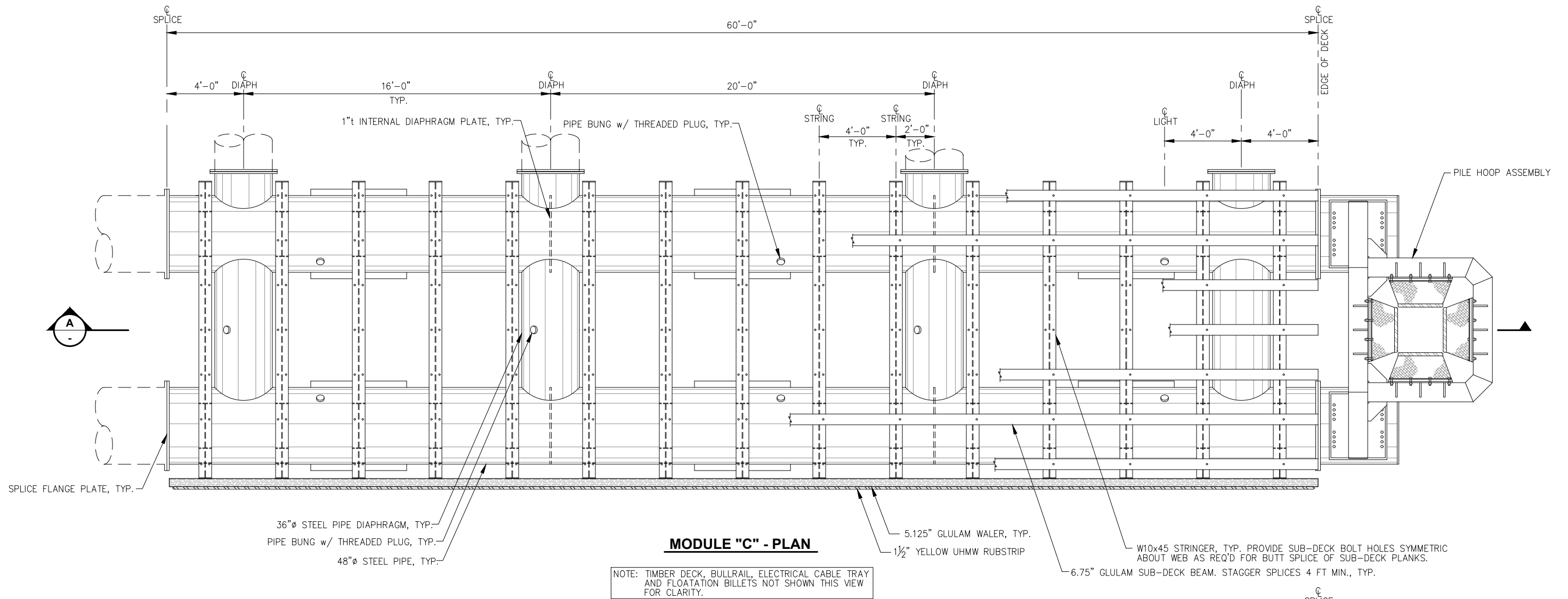
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SHEET TITLE:
FLOAT MODULE "B1"

S3.06

PND PROJECT #: 252065 C.A.N. NO.: AECC250

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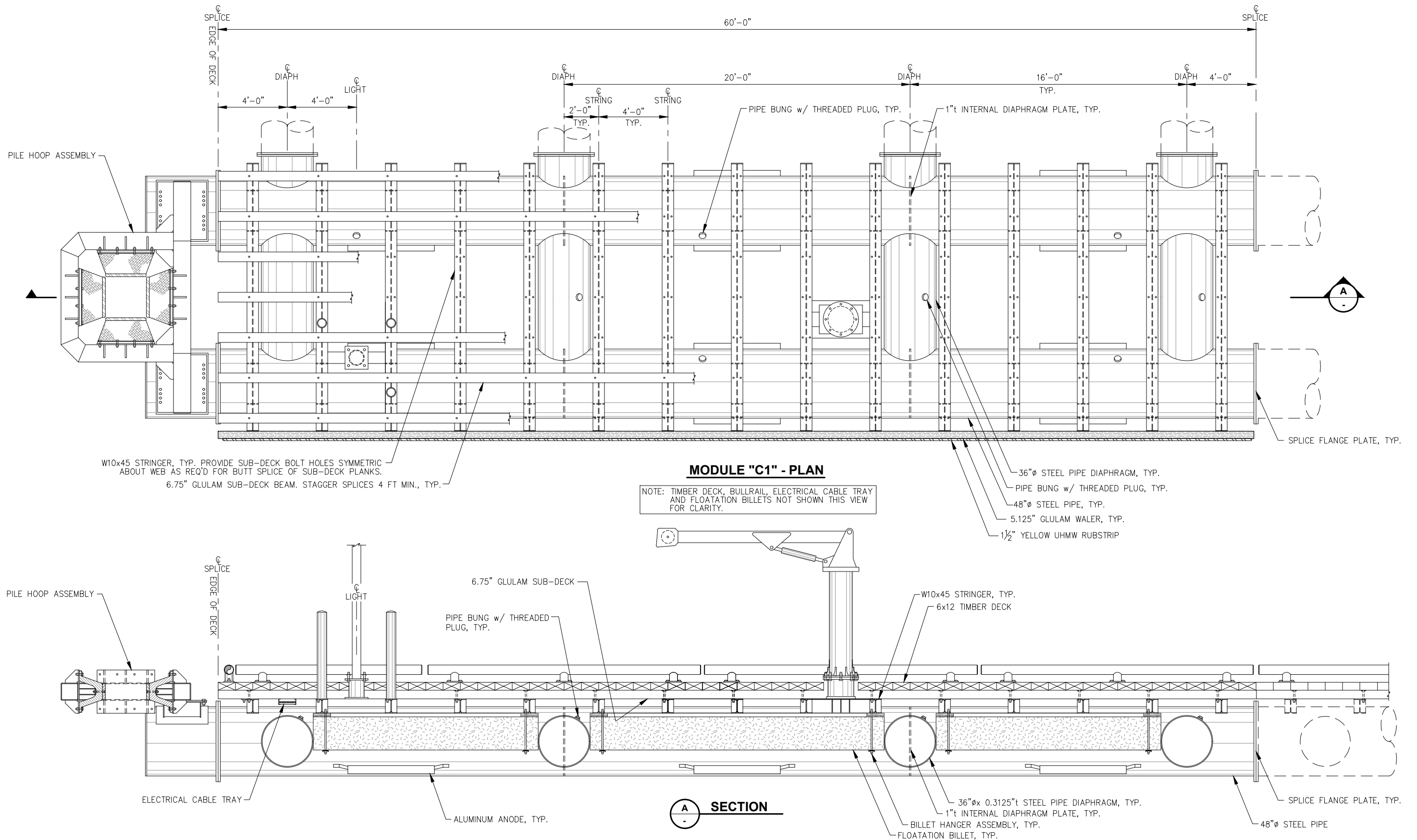
DATE: 05/08/2025

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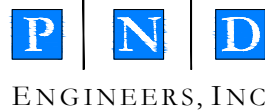
PND PROJECT #: 252065 C.A.N. NO.: AECC250

S3.07

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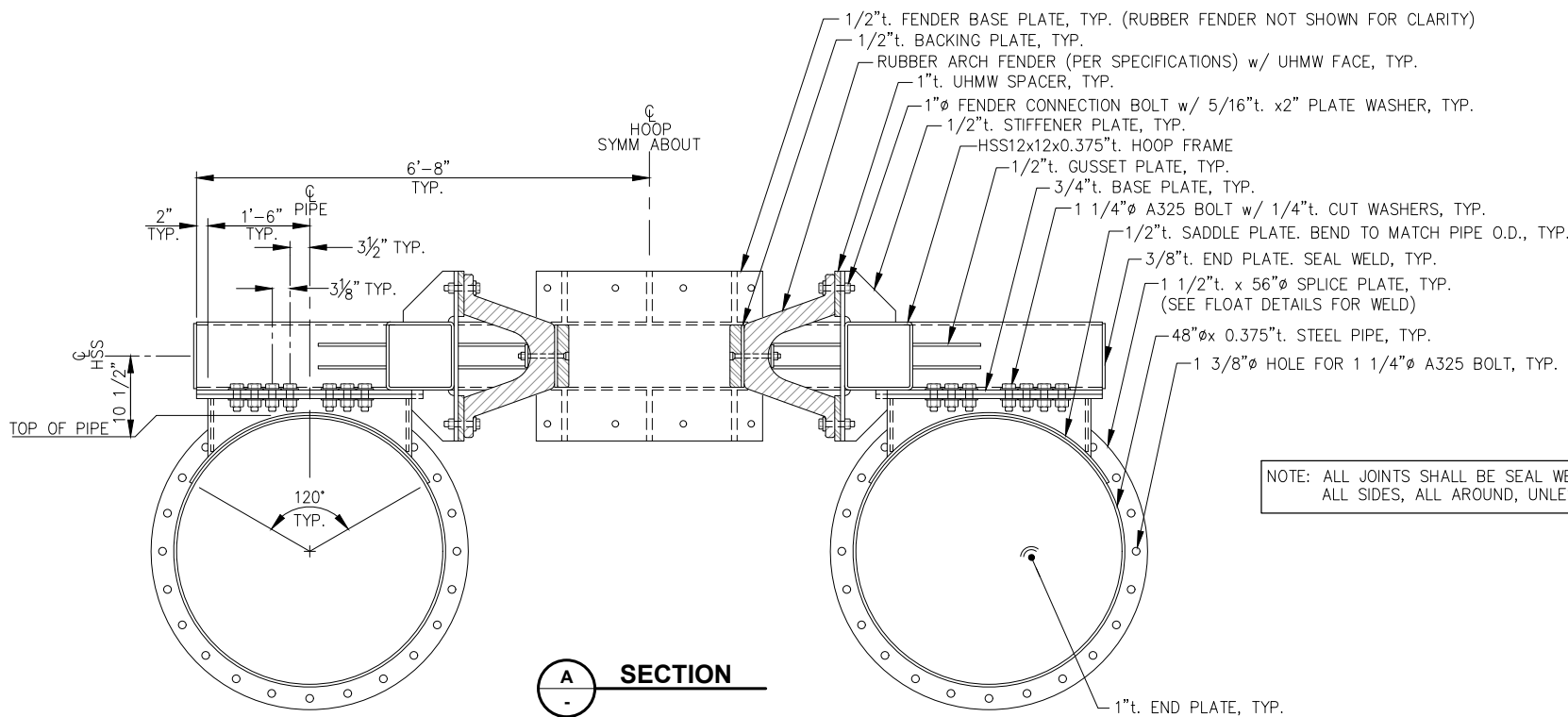
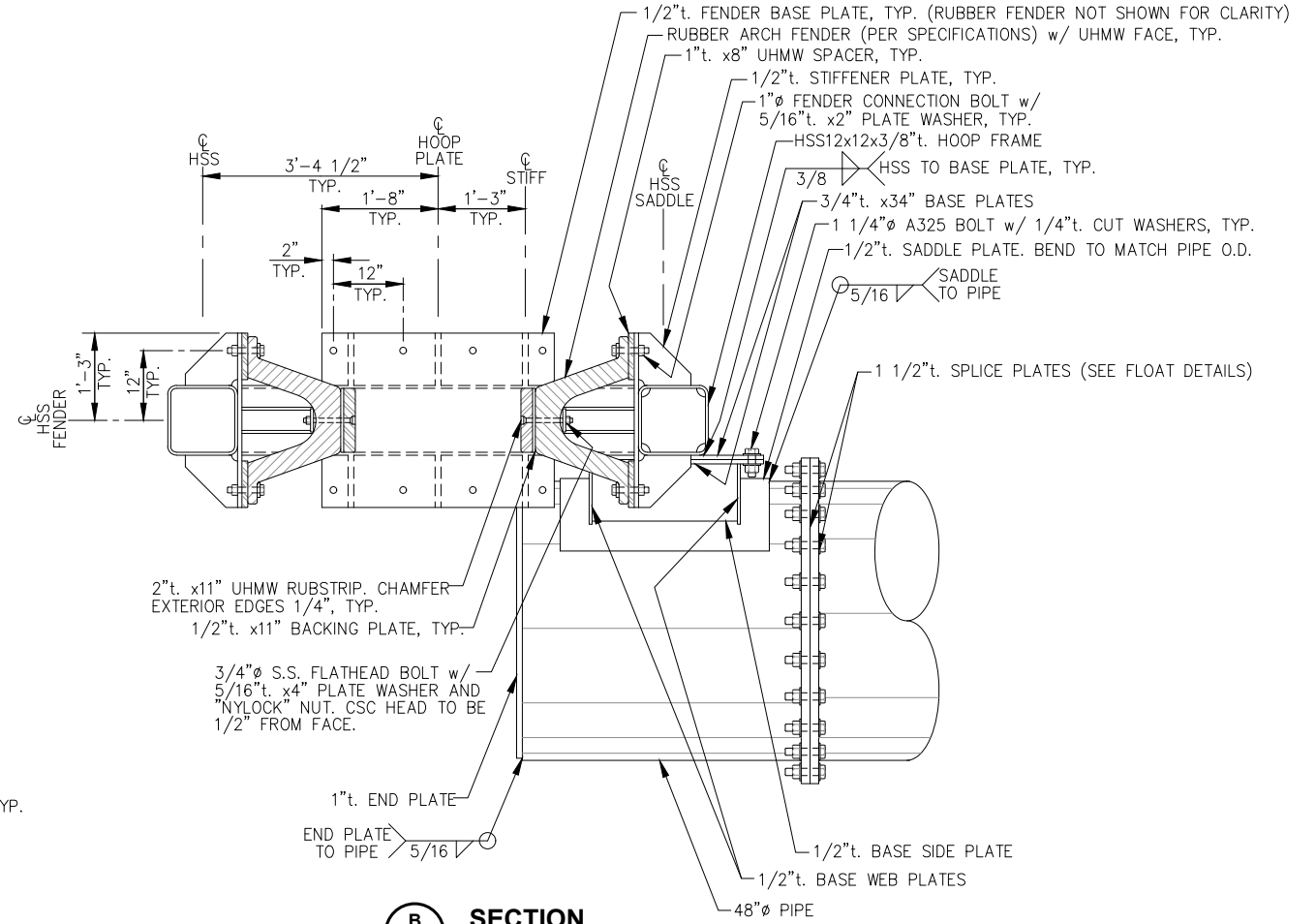
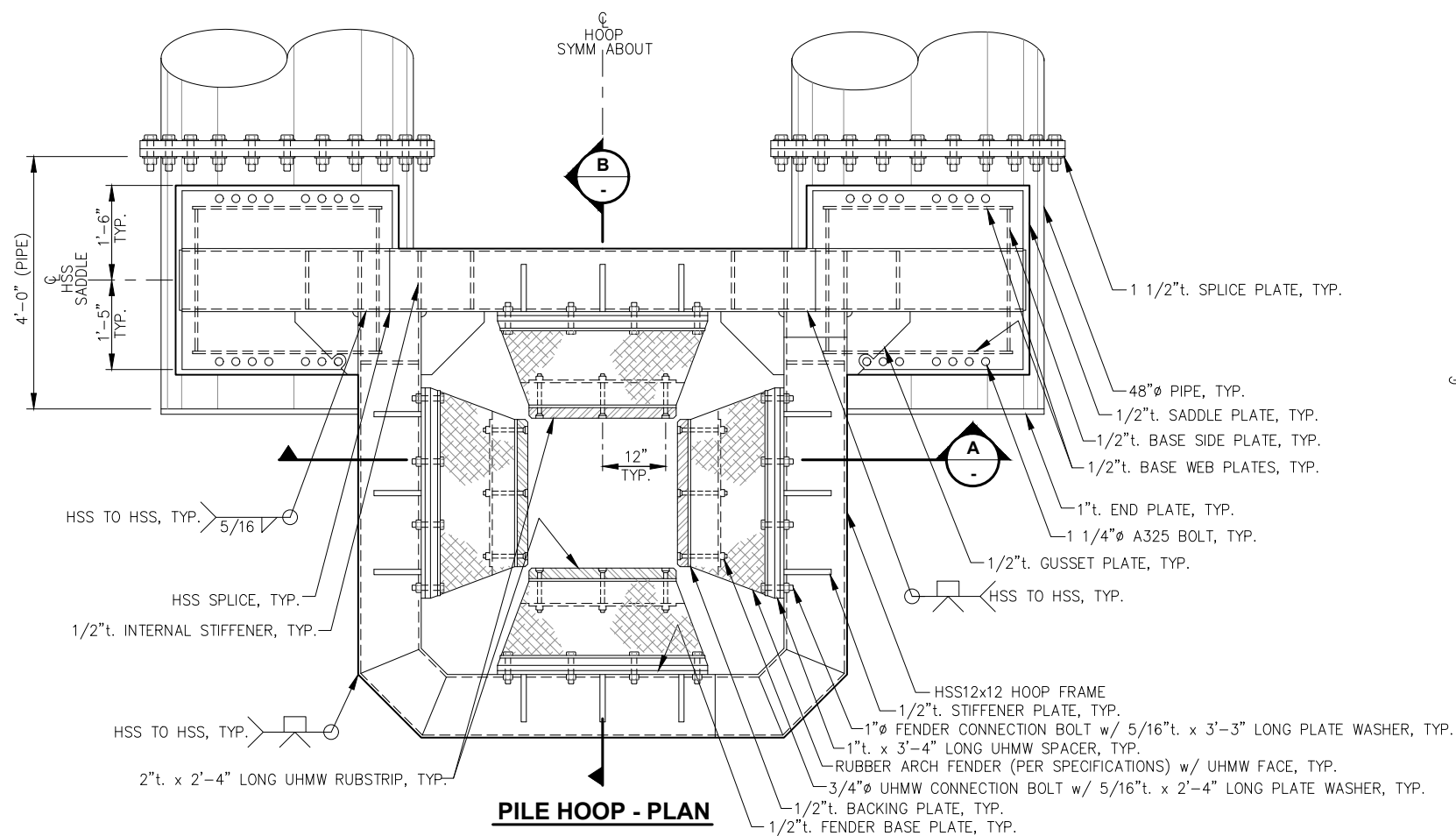
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CONTRACT NO. DH26-022**

SHEET TITLE:
FLOAT MODULE "C1"

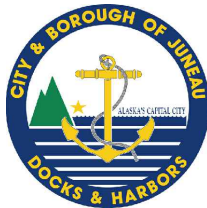
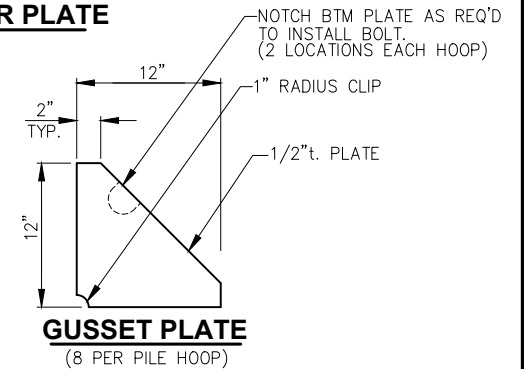
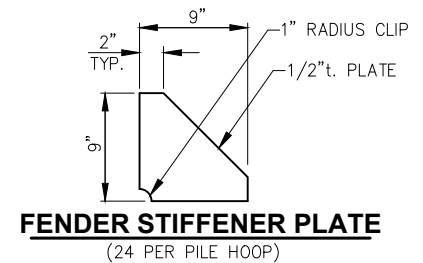
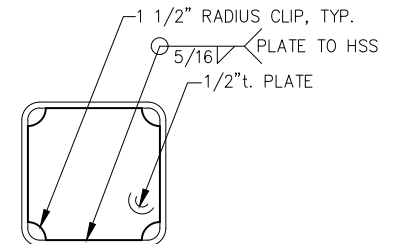
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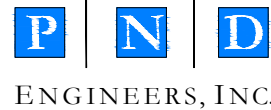
n:\25xxx\252065 aurora harbor ddf\g. drawings\S3.09 Pile Hoop Details.dwg - Bbrown - 5/8/2026



NOTE: ALL JOINTS SHALL BE SEAL WELDED WITH 5/16" FILLET WELDS, ALL SIDES, ALL AROUND, UNLESS OTHERWISE NOTED.



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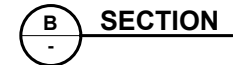
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PILE HOOP DETAILS

PND PROJECT #: 252065

C.A.N. NO.: AECC250

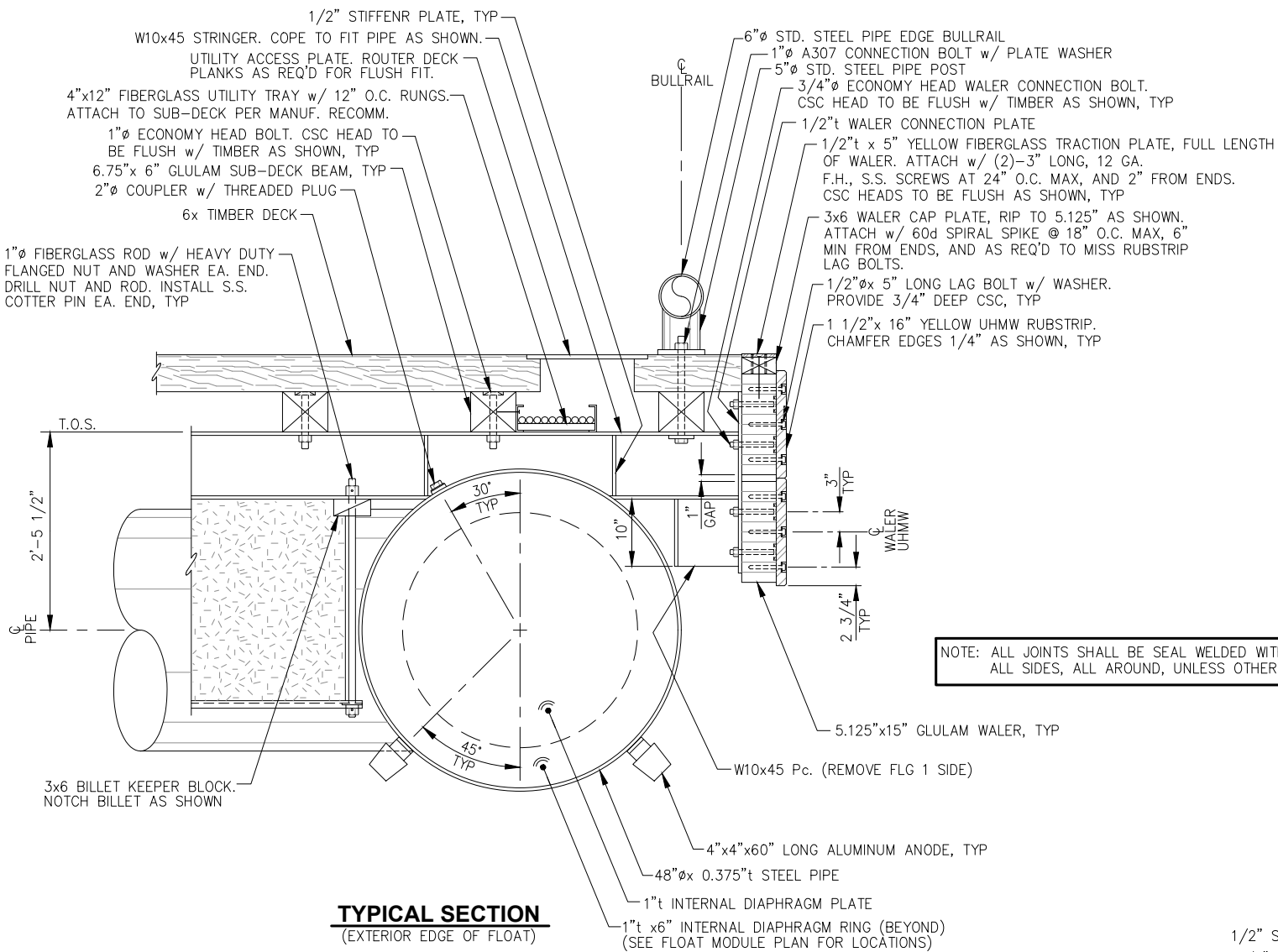
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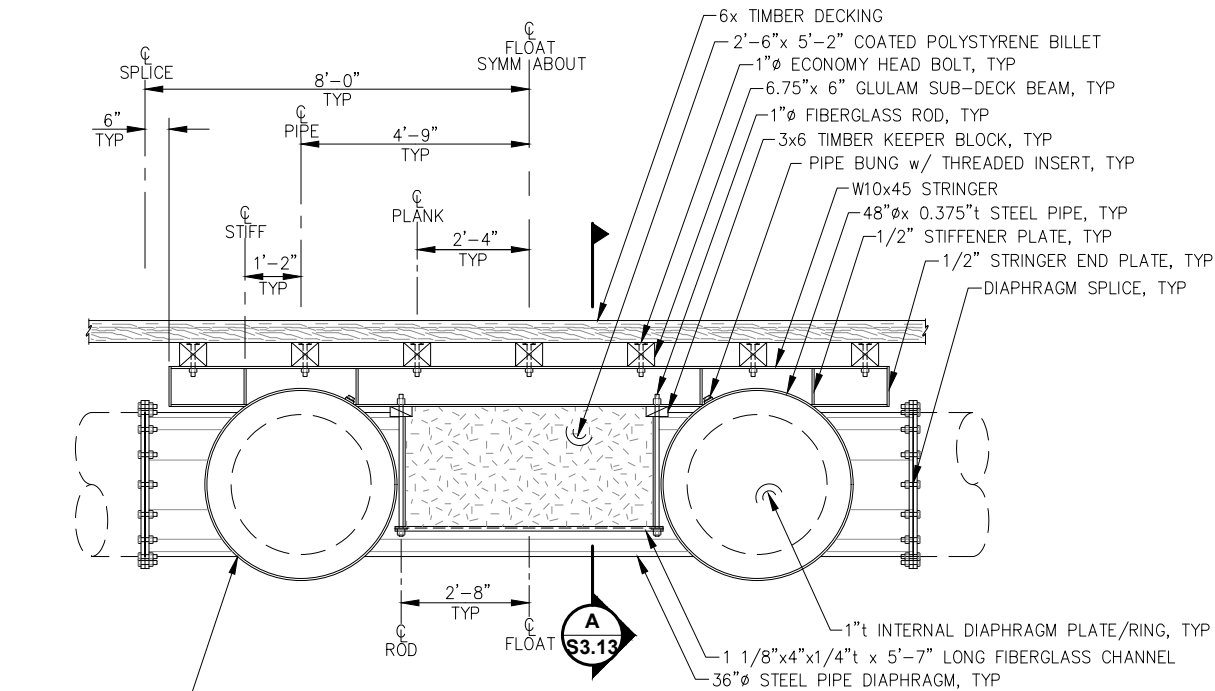
P | N | D
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PND PROJECT #: 252065	C.A.N. NO.: AECC250
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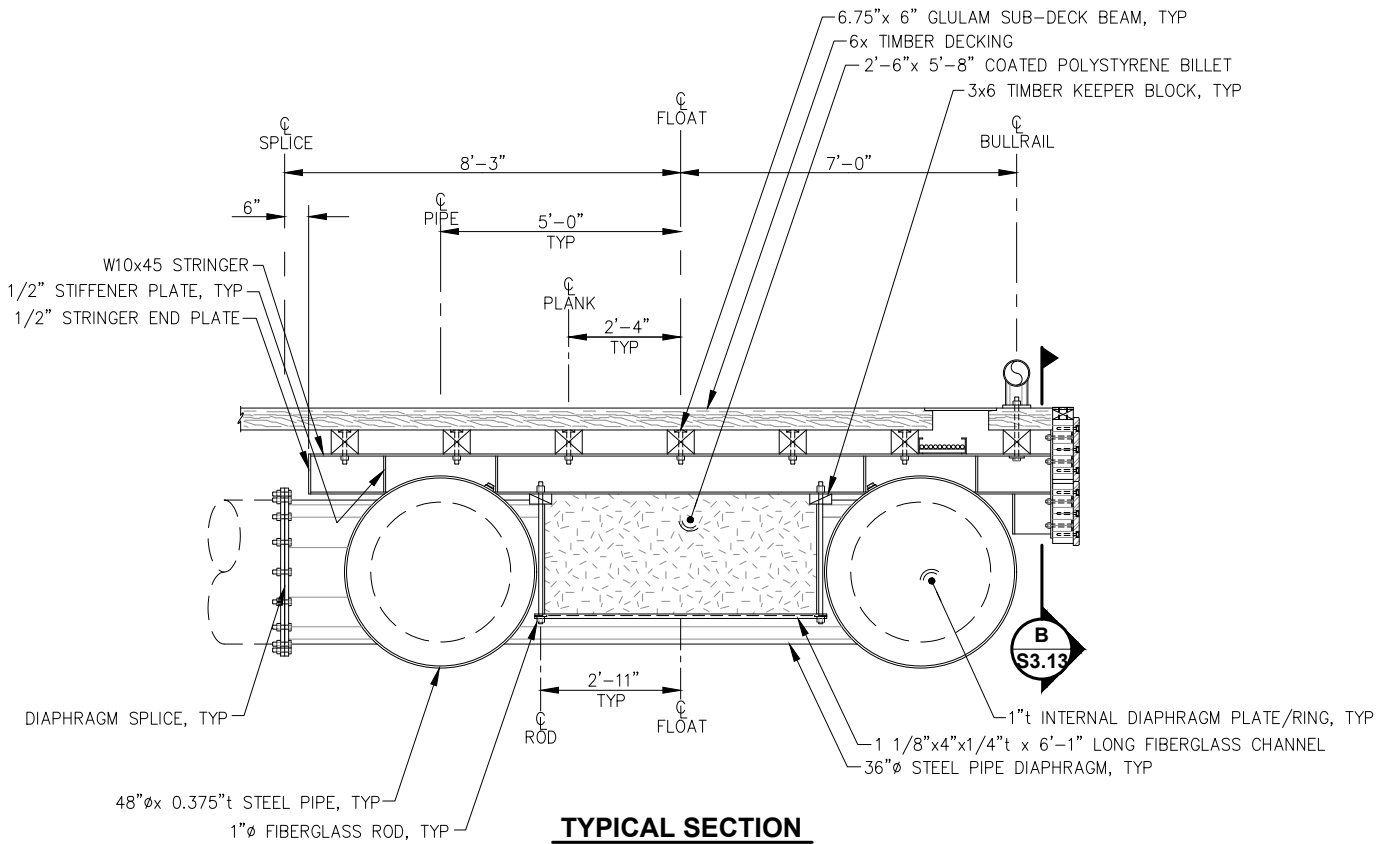
n:\25xxx\252065 aurora harbor.dwg - 5/8/2026



TYPICAL SECTION
(EXTERIOR EDGE OF FLOAT)



TYPICAL SECTION
(CENTER MODULE)



TYPICAL SECTION
(EXTERIOR MODULE)

NOTE: DETAILS NOT SHOWN SIMILAR TO CENTER MODULE.



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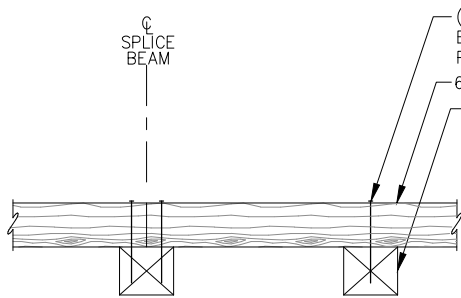
CITY & BOROUGH OF JUNEAU, ALASKA
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CONTRACT NO. DH26-022

SHEET TITLE:
TYPICAL SECTIONS

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S3.11

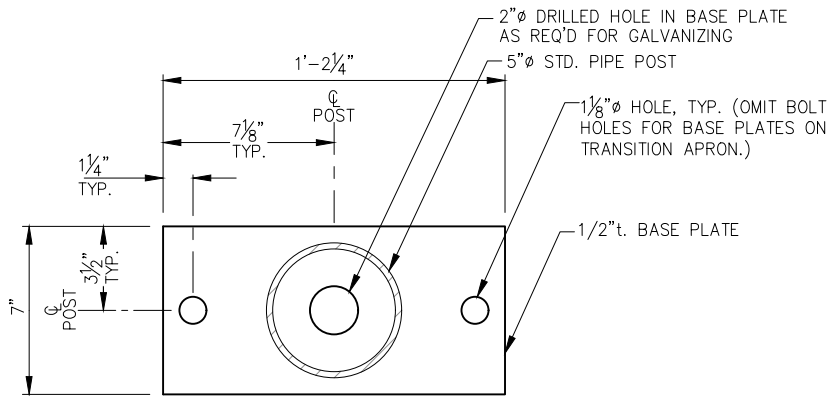
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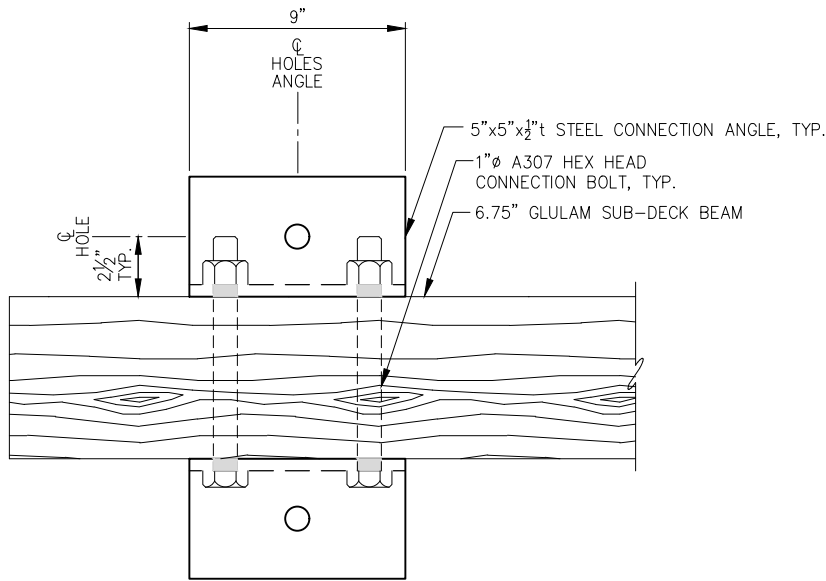
TYPICAL DECK CONNECTION

(2)-10" SPIRAL SHANK SPIKES, EA. DECK PLANK, EA. SUB-DECK BEAM. PREDRILL TIMBERS AS REQ'D PER A.I.T.C. TREAT HOLES PER SPECS.
6x TIMBER DECK PLANK
6.75"x 6" GLULAM SUB-DECK BEAM, TYP.

- NOTES:
- 1) DECK PLANKS SHALL BE SUPPORTED BY A MINIMUM OF (2) SUB-DECK BEAMS.
 - 2) LAYOUT OF DECK PLANK SPLICES SHALL BE RANDOM w/ NO ADJACENT SPLICES AT SAME SUB-DECK BEAM.
 - 3) OFFSET DECK SPIKES AS REQ'D TO MISS SUB-DECK CONNECTION BOLTS.



BULLRAIL BASE PLATE - PLAN



END BULLRAIL CONNECTION ANGLE - PLAN



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SCALE: NTS

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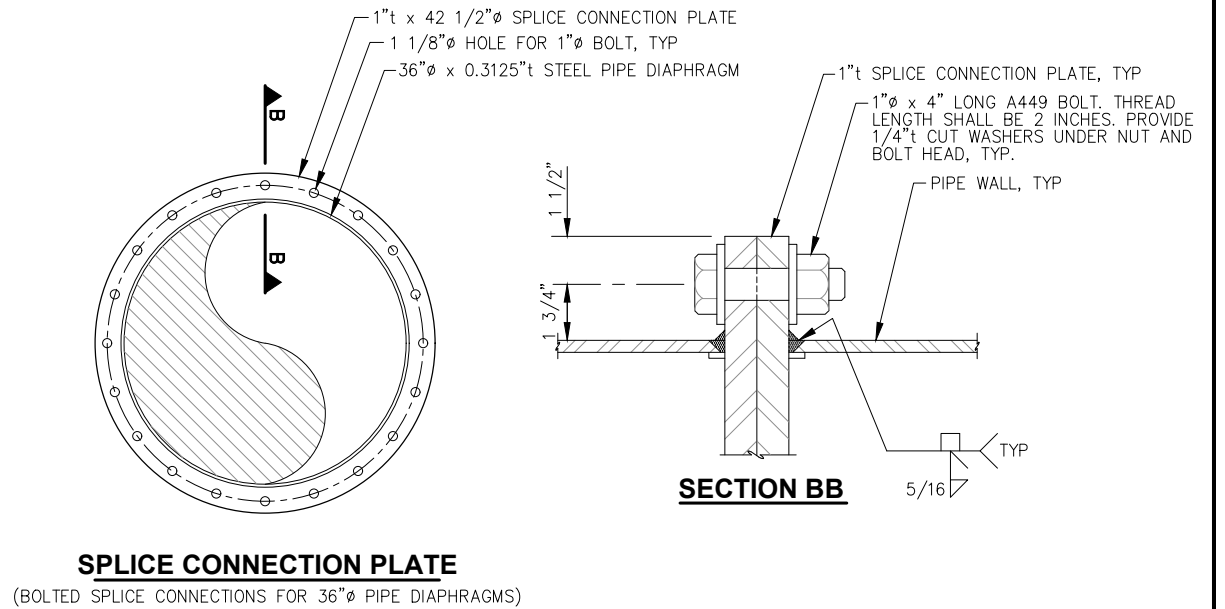
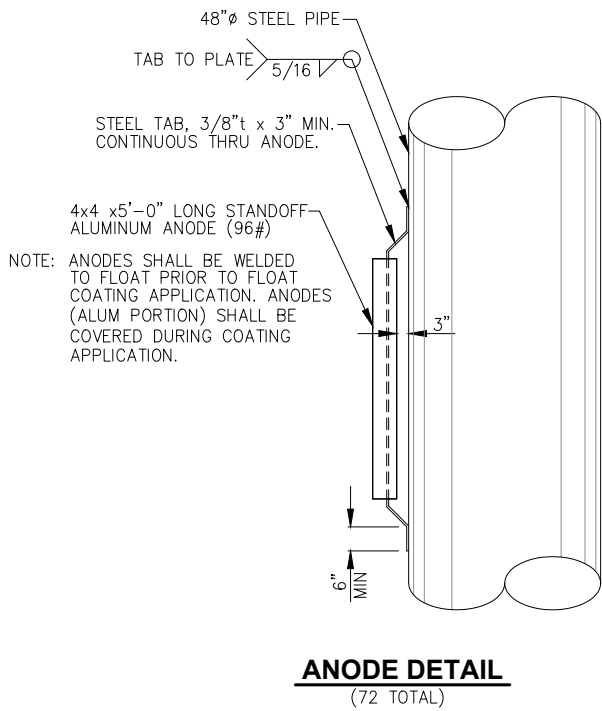
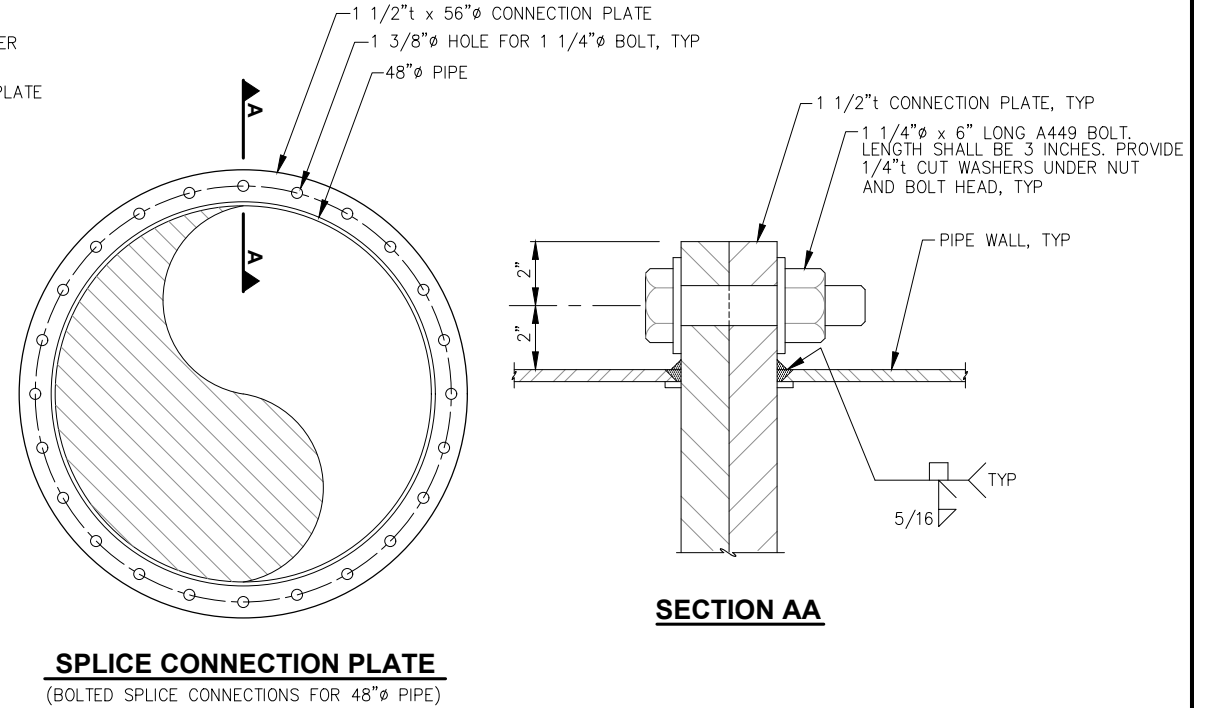
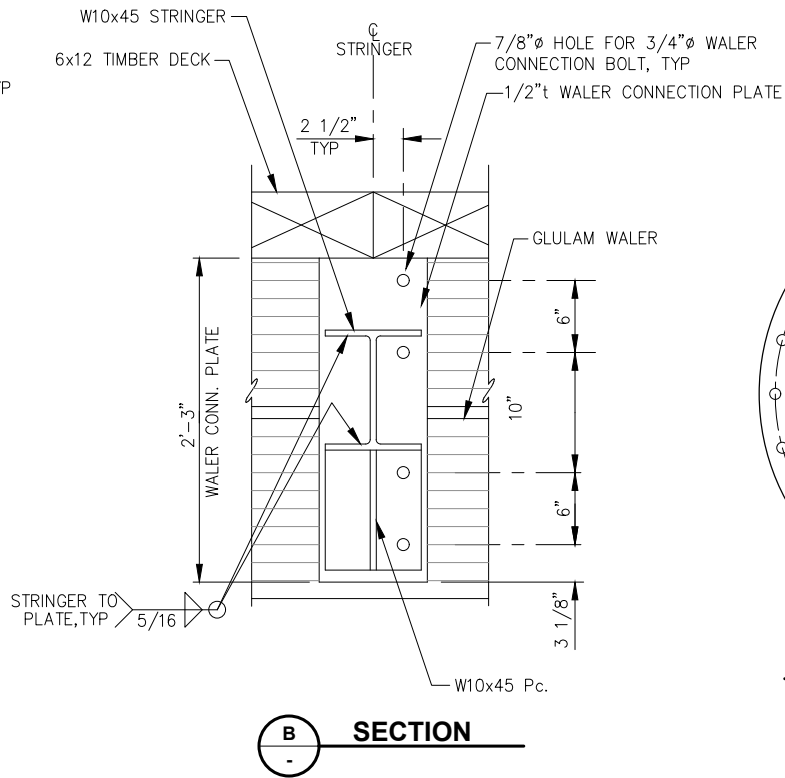
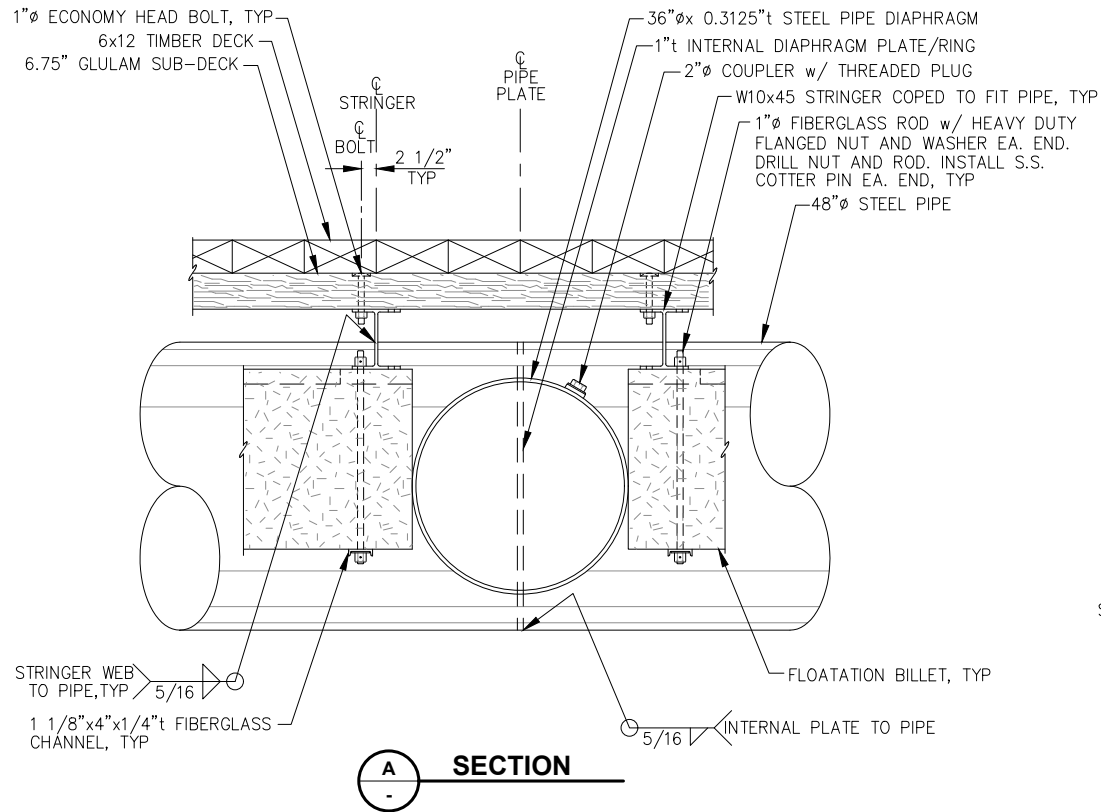
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
FLOAT DOCK DETAILS

PND PROJECT #: 252065 C.A.N. NO.: AECC250

S3.12

n:\25xxx\252065 aurora harbor dd\g. drawings\S3.13 Float Details.dwg - Bbrown - 4/30/2026



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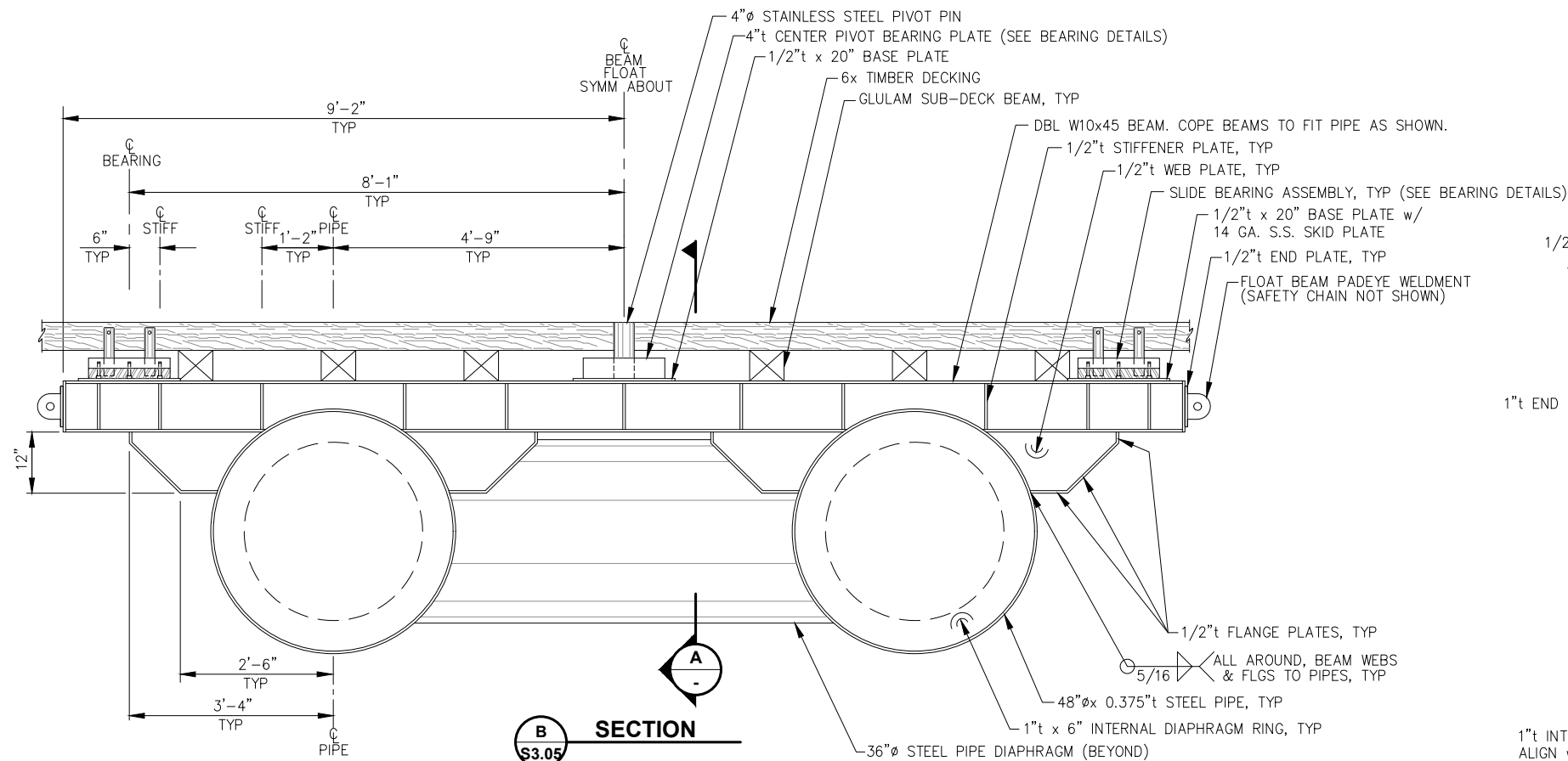
FLOAT DOCK DETAILS

PND PROJECT #: 252065

C.A.N. NO.: AECC250

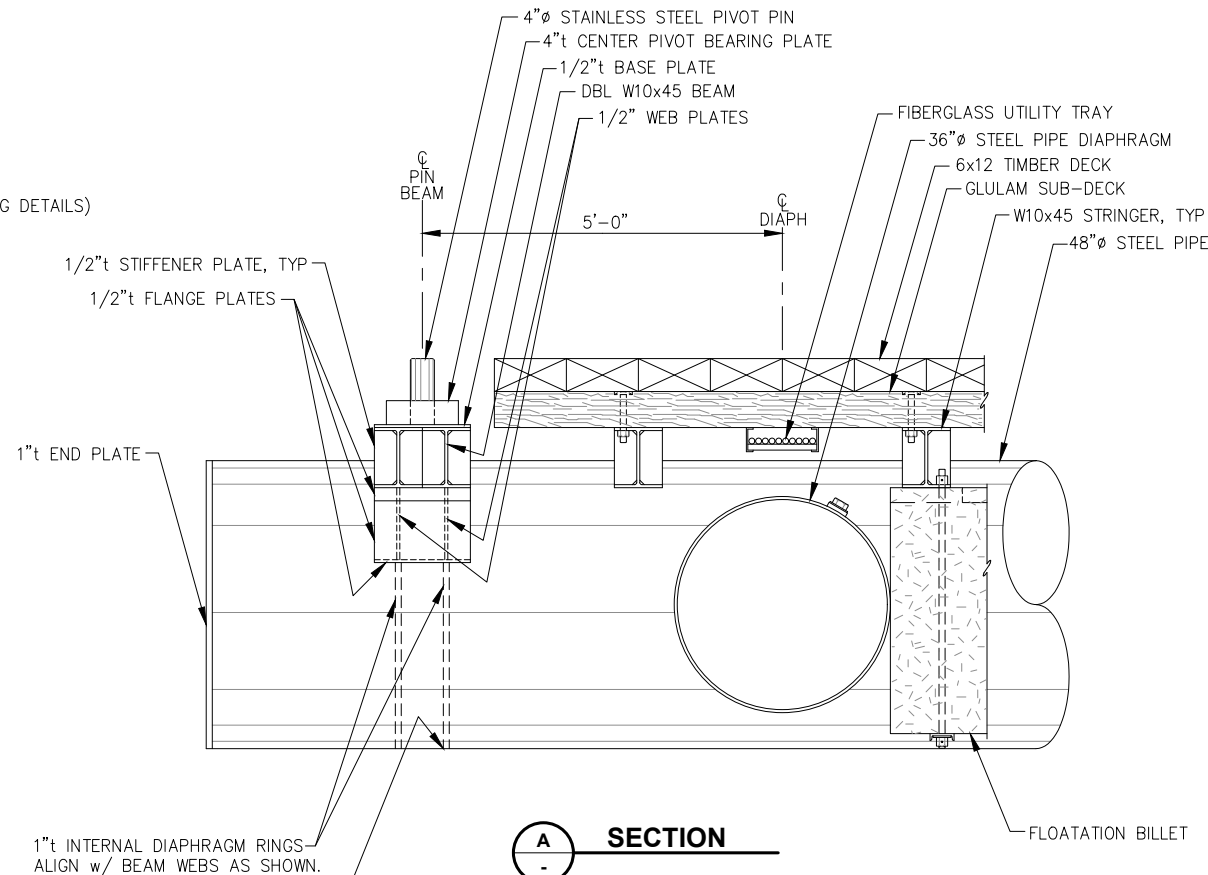
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B
S3.05

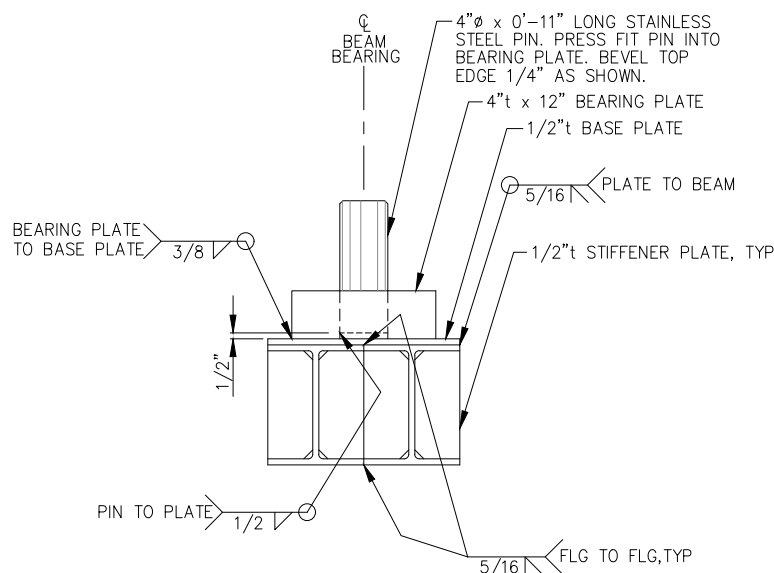
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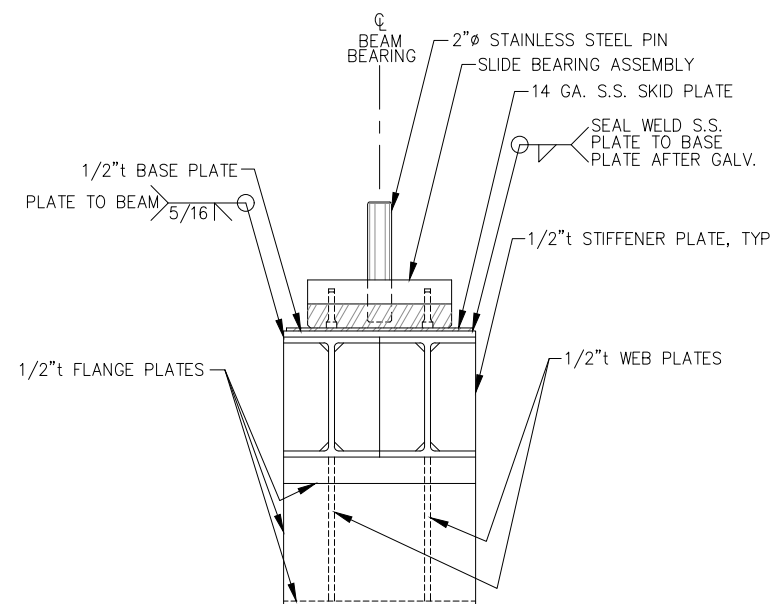
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SECTION

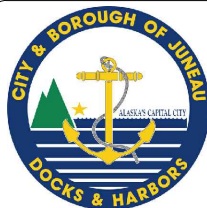
NOTE: ALL JOINTS SHALL BE SEAL WELDED WITH 5/16" FILLET WELDS, ALL SIDES, ALL AROUND, UNLESS OTHERWISE NOTED.



CENTER BEARING - SECTION



SLIDE BEARING - SECTION



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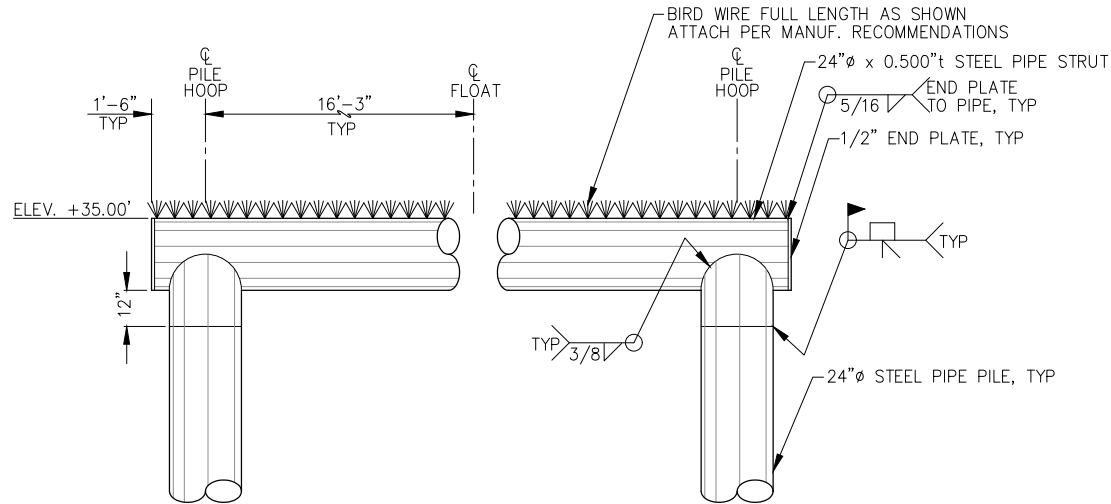
CITY & BOROUGH OF JUNEAU, ALASKA
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SHEET TITLE:
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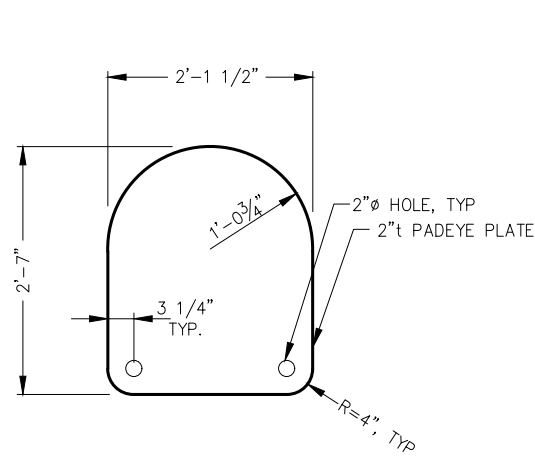
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S3.14

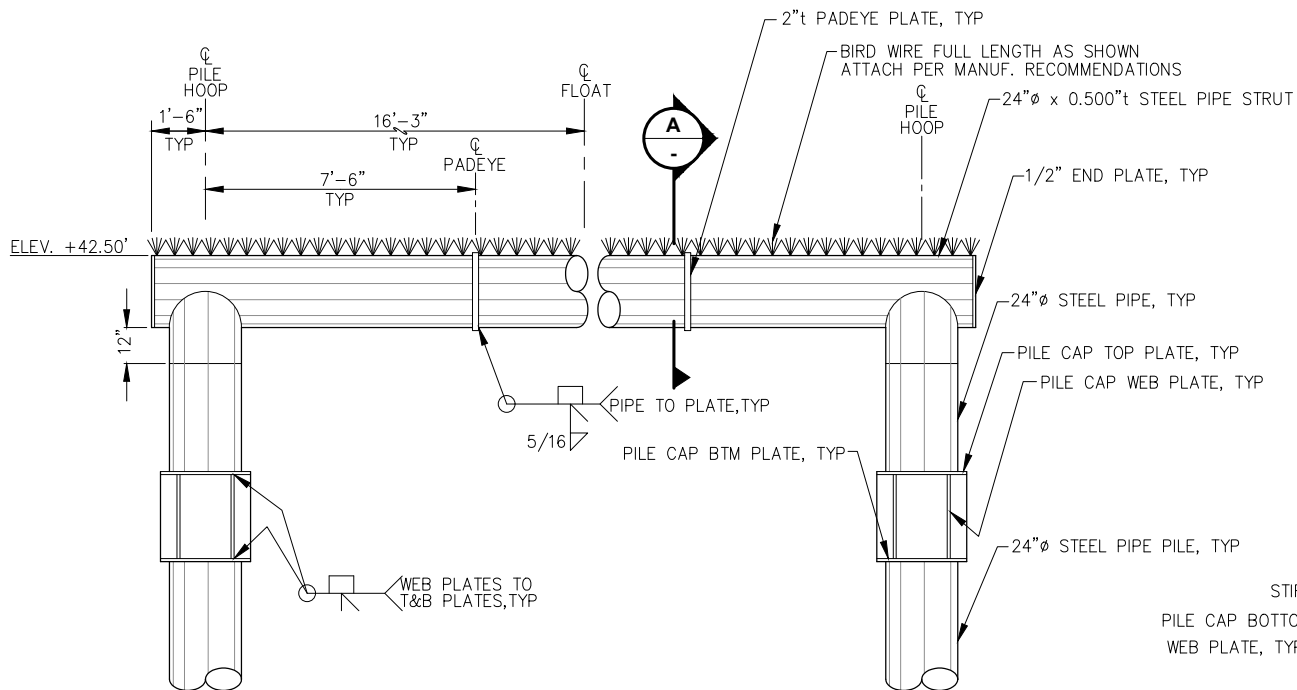
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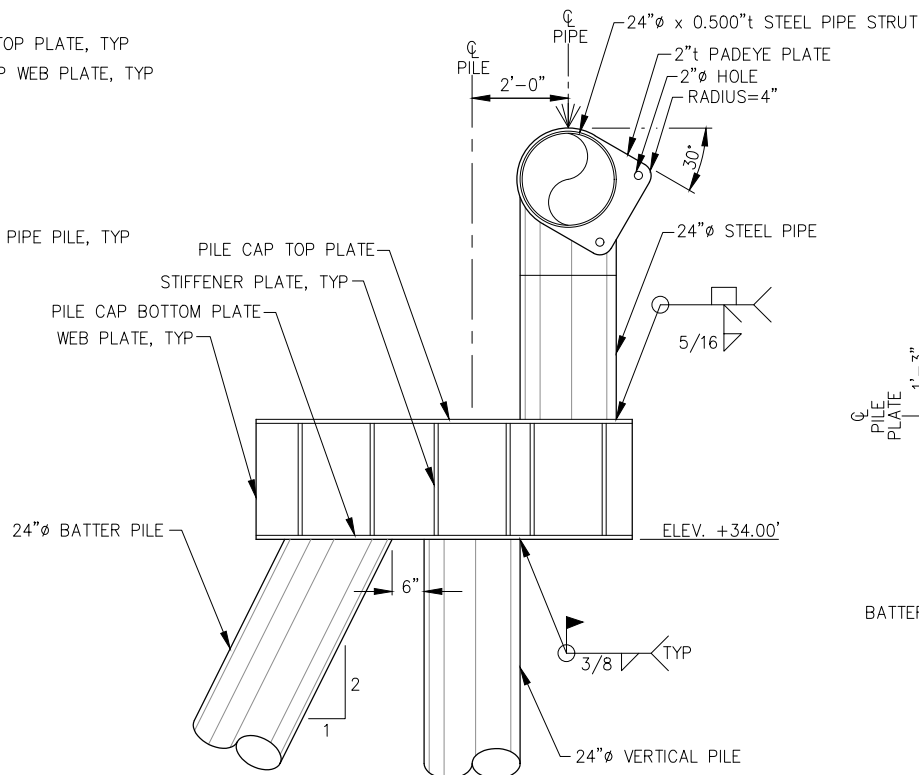
WEST MOORING FRAME - ELEVATION



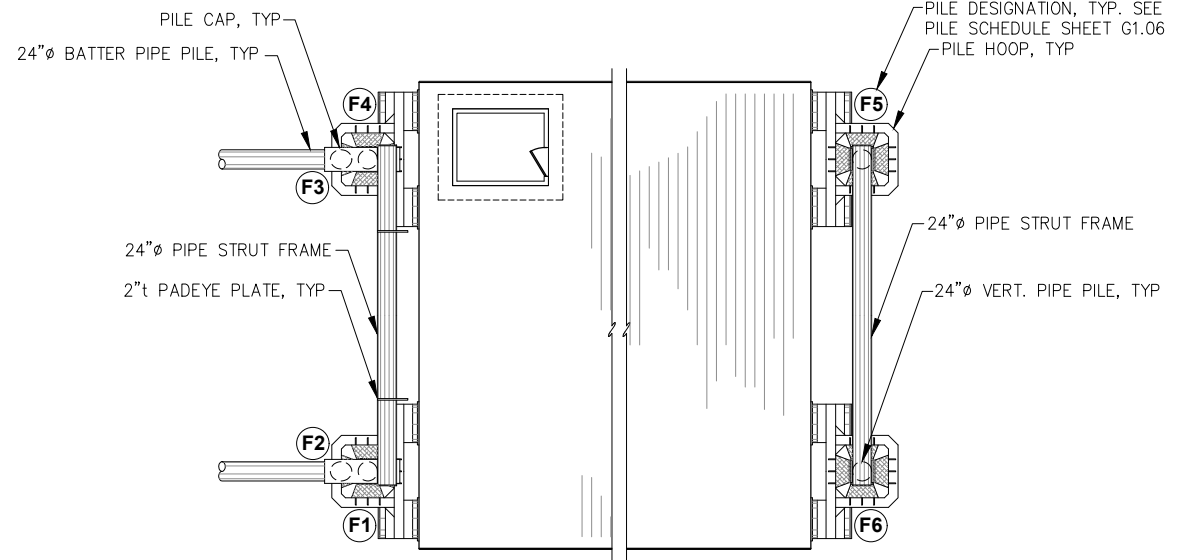
PADEYE PLATE - ELEVATION



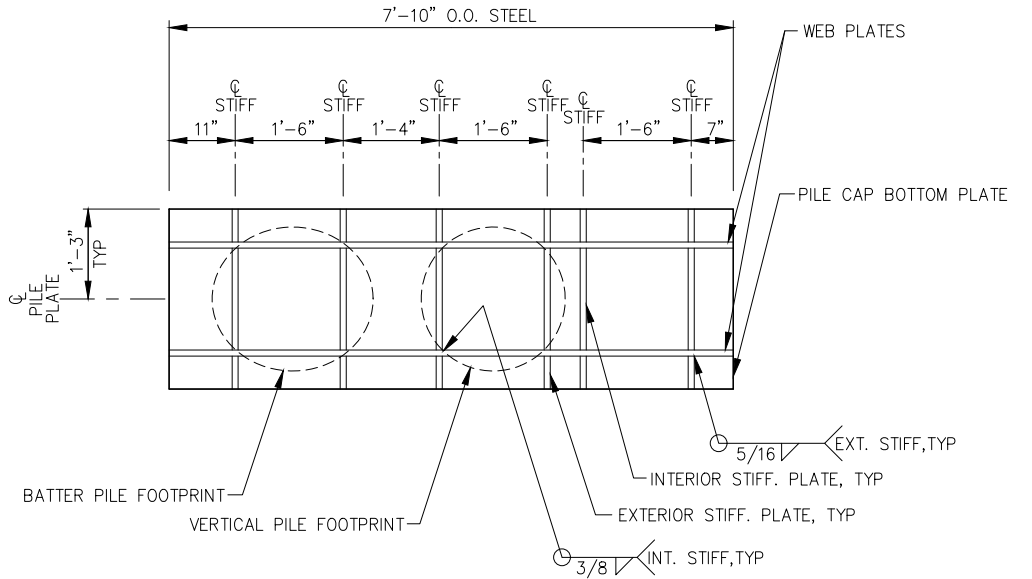
EAST PILE FRAME - ELEVATION



SECTION A



PILE LAYOUT - PLAN

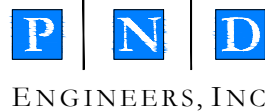


PILE CAP - BOTTOM PLATE PLAN

NOTE: ALL PLATE t=1" UNLESS OTHERWISE NOTED.



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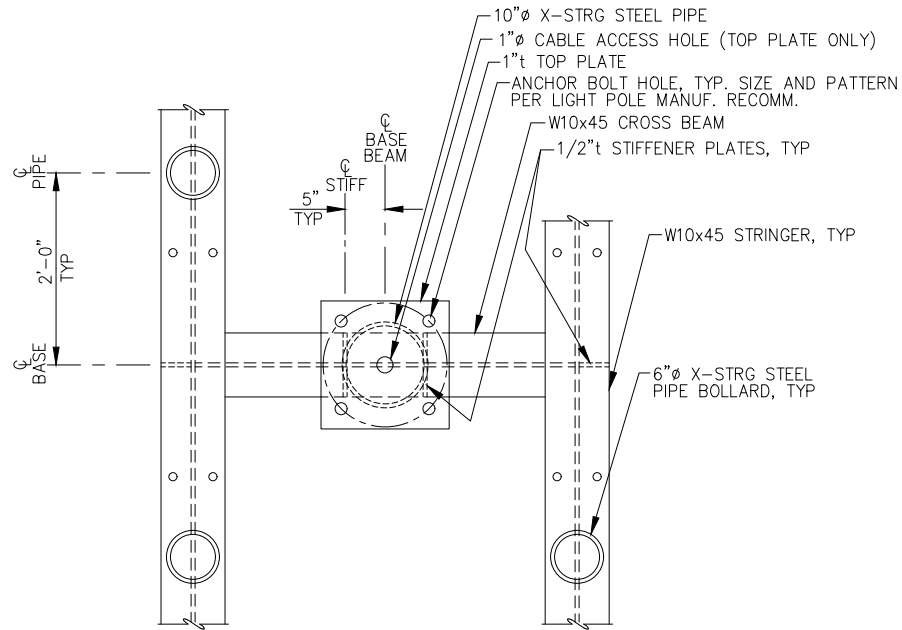
CITY & BOROUGH OF JUNEAU, ALASKA
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CONTRACT NO. DH26-022

SHEET TITLE:
PILE LAYOUT AND
MOORING FRAME DETAILS

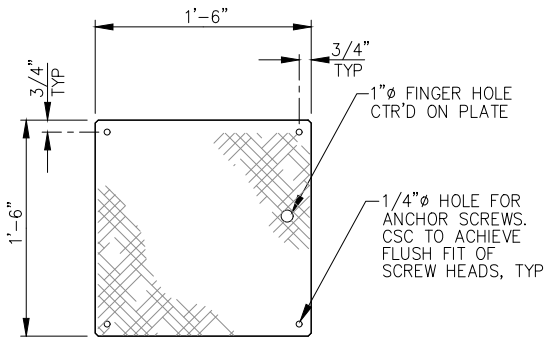
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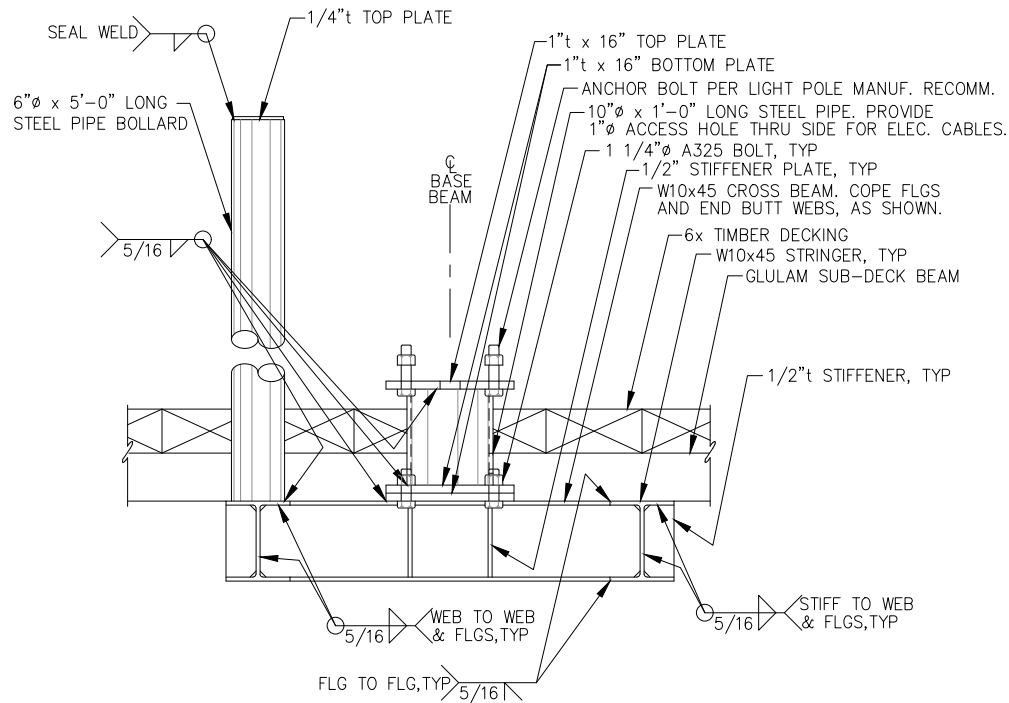
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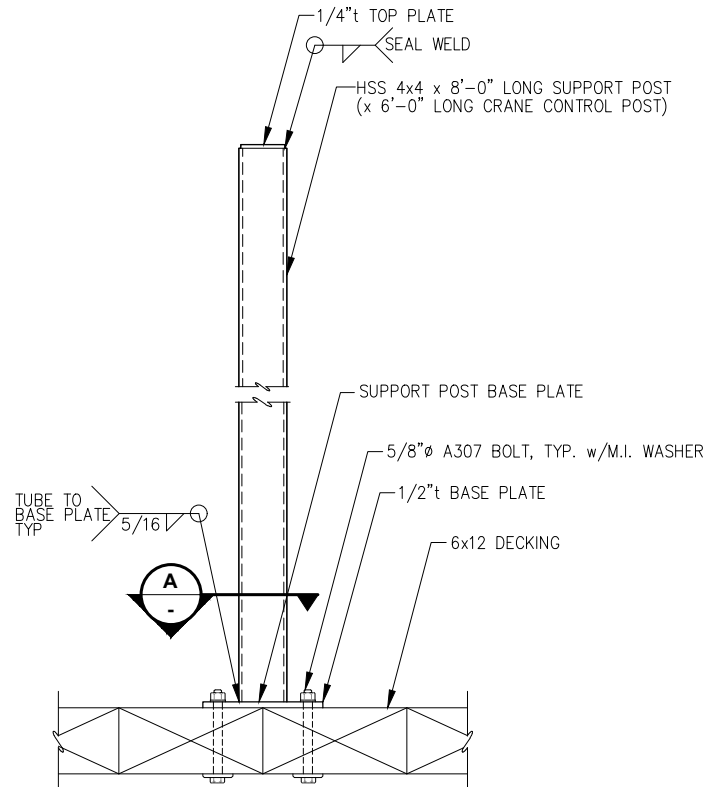
LIGHT POLE BASE - PLAN



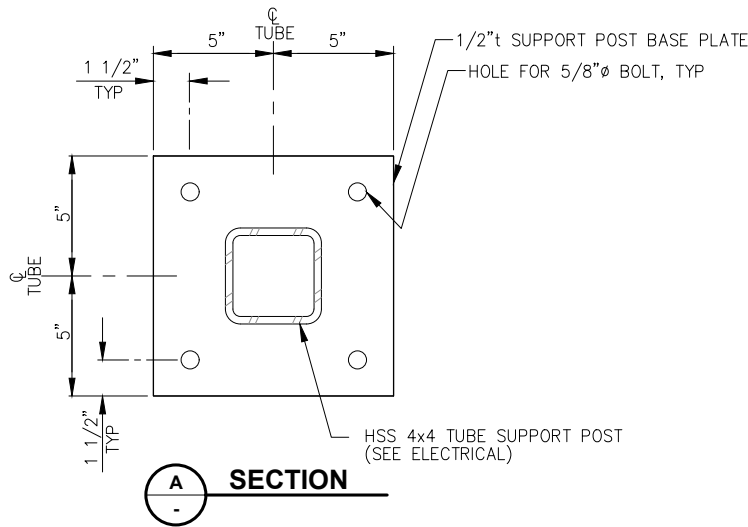
UTILITY ACCESS PLATE
NOTE: PLATE SHALL BE 1/2"t STEEL (ASTM A572, Fy = 50ksi) w/ NON-SKID COATING ON TOP SURFACE. CLIP CORNERS 1/4" AS SHOWN. LOCATE PER FLOAT PLAN. ATTACH w/ 14GA. x 3" LONG S.S. F.H. SCREWS (4 PER PLATE)



LIGHT POLE BASE - ELEVATON



ELECTRICAL PANEL SUPPORT POST - ELEVATION



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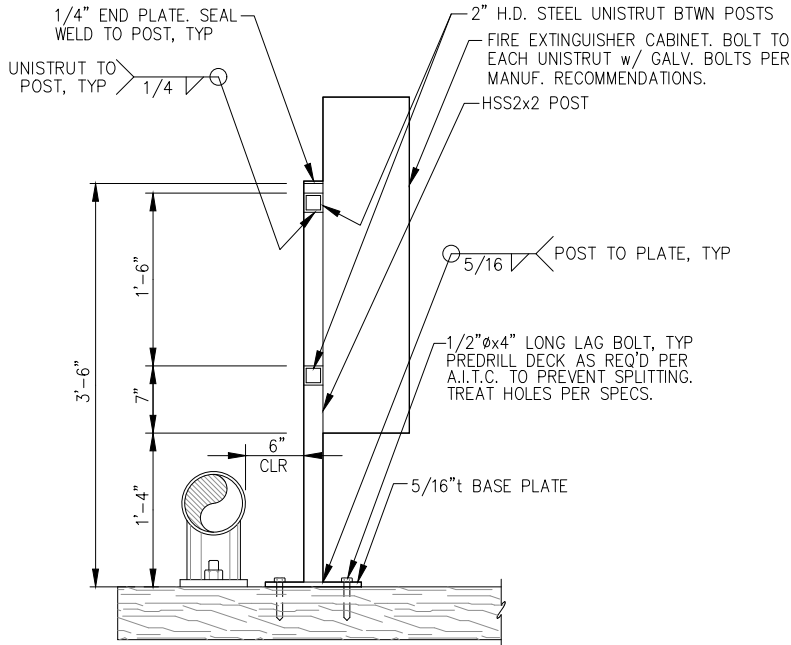
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
EQUIPMENT SUPPORT DETAILS

PND PROJECT #: 252065 C.A.N. NO.: AECC250

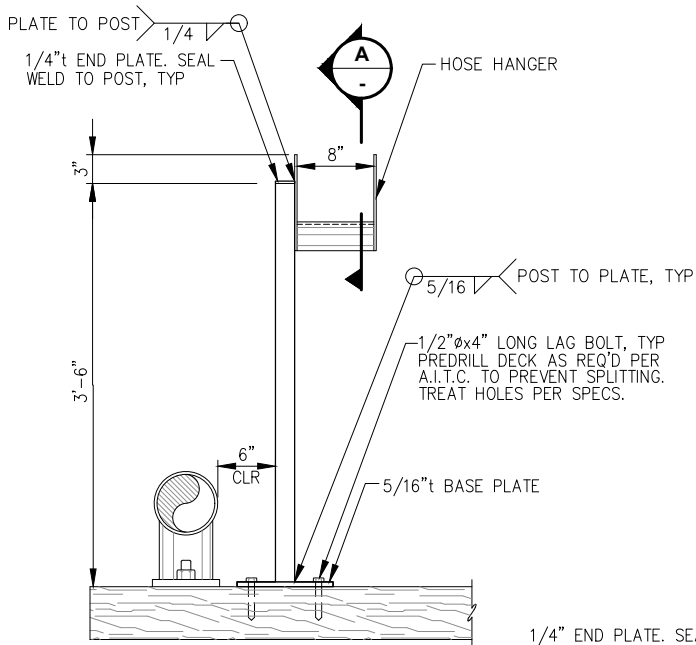
S3.16

n:\25xxx\252065 aurora harbor.dwg g. drawings\3.16-S3.17 Equipment_Anode_Details.dwg - Bbrown - 4/30/2026



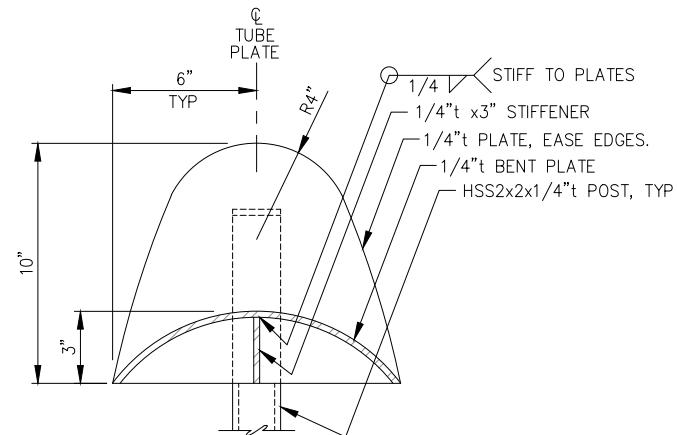
LIFE RING/FIRE EXTINGUISHER CABINET MOUNT - ELEVATION

NOTE: LOCATE PER FLOAT PLAN. CONFIRM LOCATION w/ ENGINEER PRIOR TO INSTALLATION.

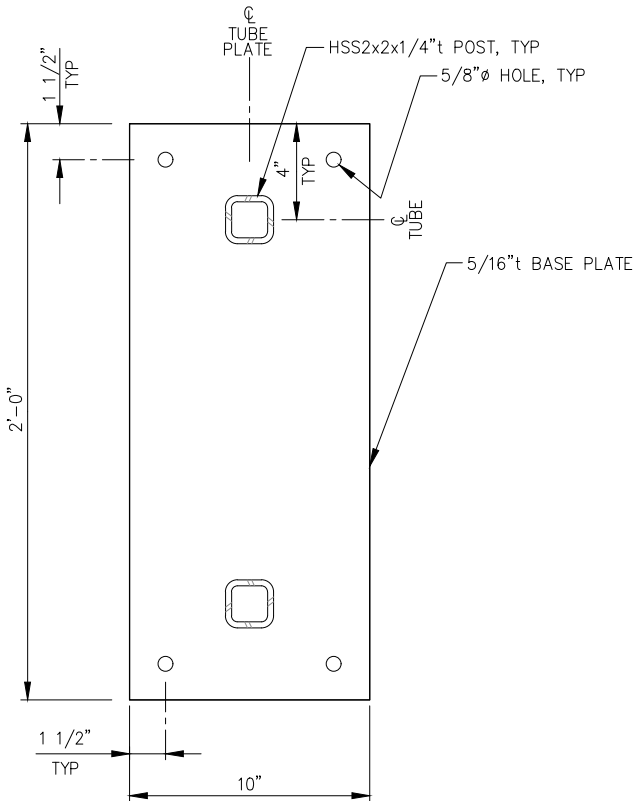


HOSE MOUNT - ELEVATION

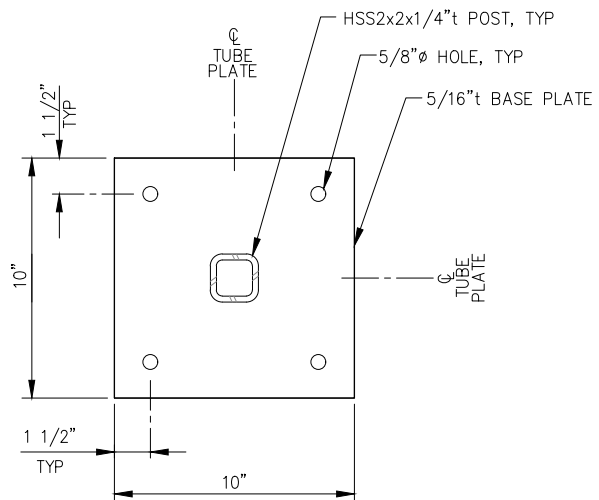
NOTE: LOCATE PER FLOAT PLAN. CONFIRM LOCATION w/ ENGINEER PRIOR TO INSTALLATION.



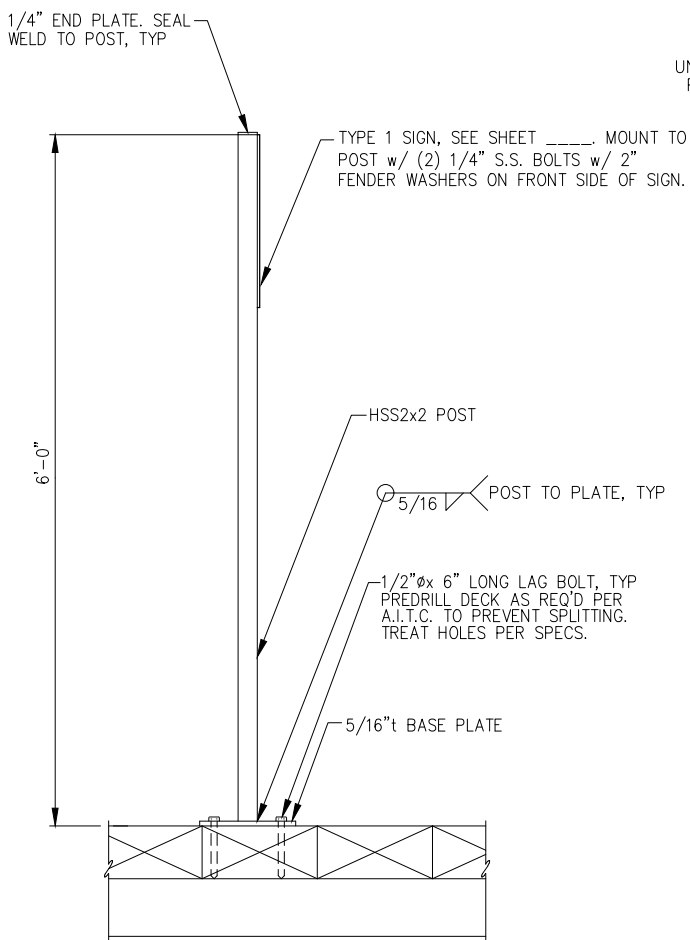
A HOSE HANGER - SECTION



LIFE RING BASE / TYPE 4 SIGN BASE - PLAN

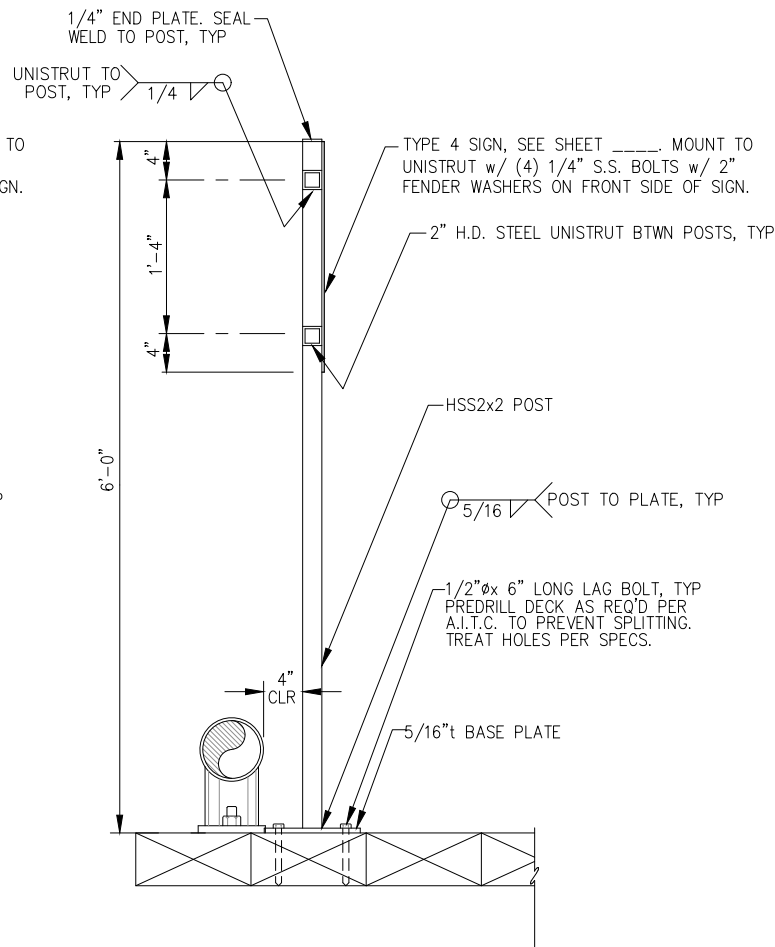


FIRE EXTINGUISHER / HOSE MOUNT / TYPE 1 SIGN BASE - PLAN



TYPE 1 SIGN POST MOUNT - ELEVATION

NOTE: LOCATE PER FLOAT PLAN. CONFIRM LOCATION w/ ENGINEER PRIOR TO INSTALLATION.



TYPE 2 SIGN POST MOUNT - ELEVATION

NOTE: LOCATE PER FLOAT PLAN. CONFIRM LOCATION w/ ENGINEER PRIOR TO INSTALLATION.



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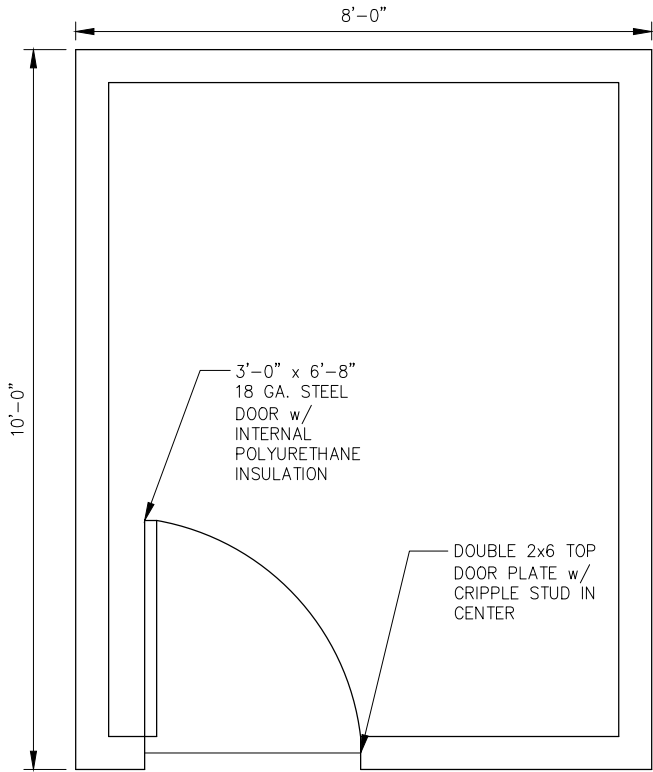
**CITY & BOROUGH OF JUNEAU, ALASKA
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CONTRACT NO. DH26-022**

SHEET TITLE:
EQUIPMENT SUPPORT DETAILS

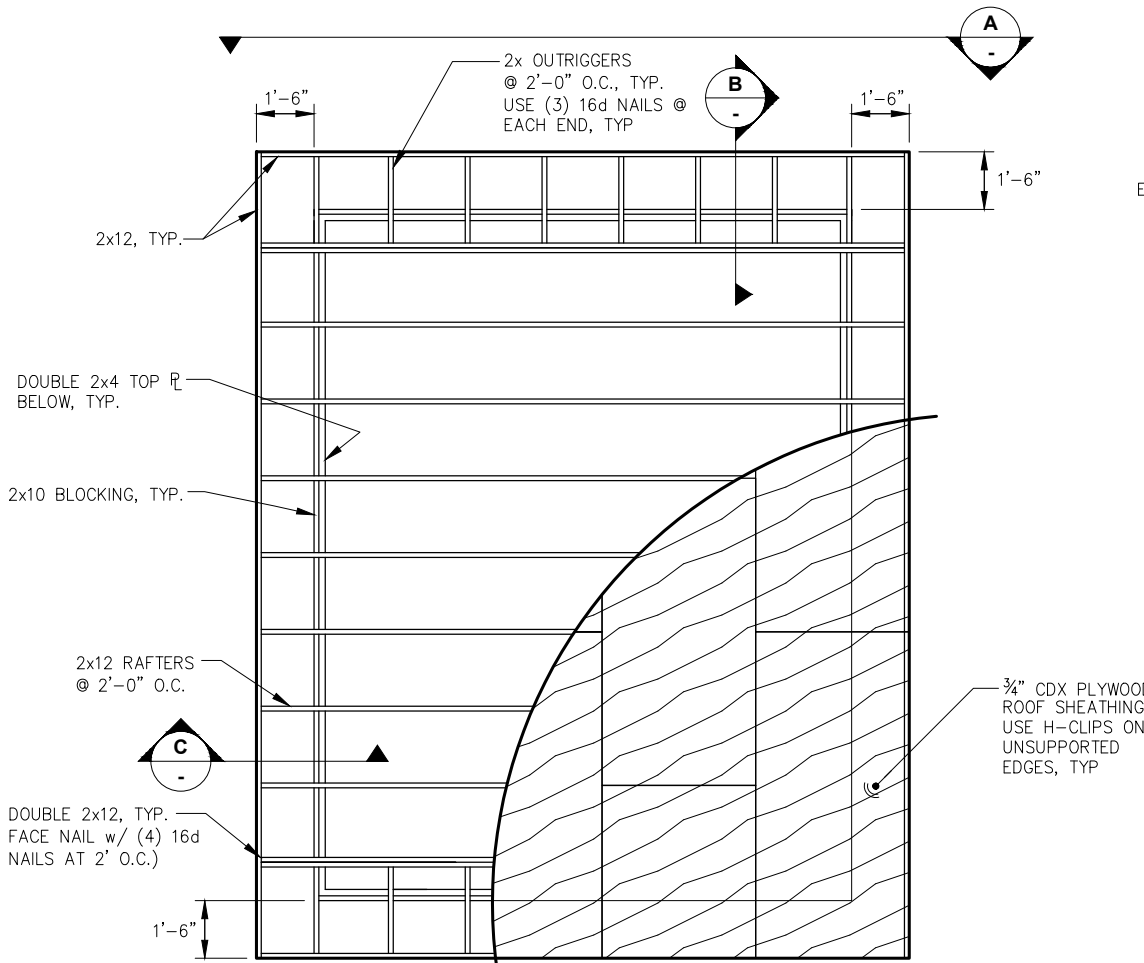
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S3.17

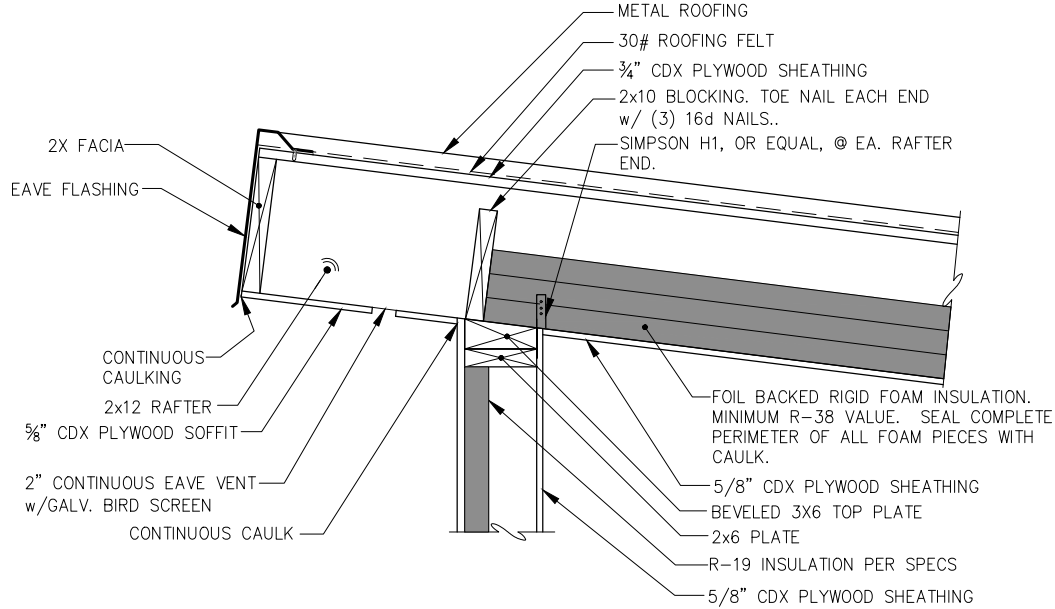
- NOTES:**
- 1) PAINT ALL TRIM AND INTERIOR/EXTERIOR PLYWOOD WITH (2) COATS OF OIL-BASED PAINT OVER (1) COAT PRIMER.
 - 2) SUBMIT COLOR SAMPLES OF ALL PAINT FOR OWNER SELECTION.
 - 3) EDGE NAIL ALL PLYWOOD FLOORING, ROOF & WALL SHEATHING @ 6" O.C. & FIELD NAIL @ 12" O.C. w/10d HOT-DIP GALVANIZED COMMON NAILS. ALL FRAMING NAILS TO BE 16d HOT-DIP GALVANIZED COMMON NAILS.



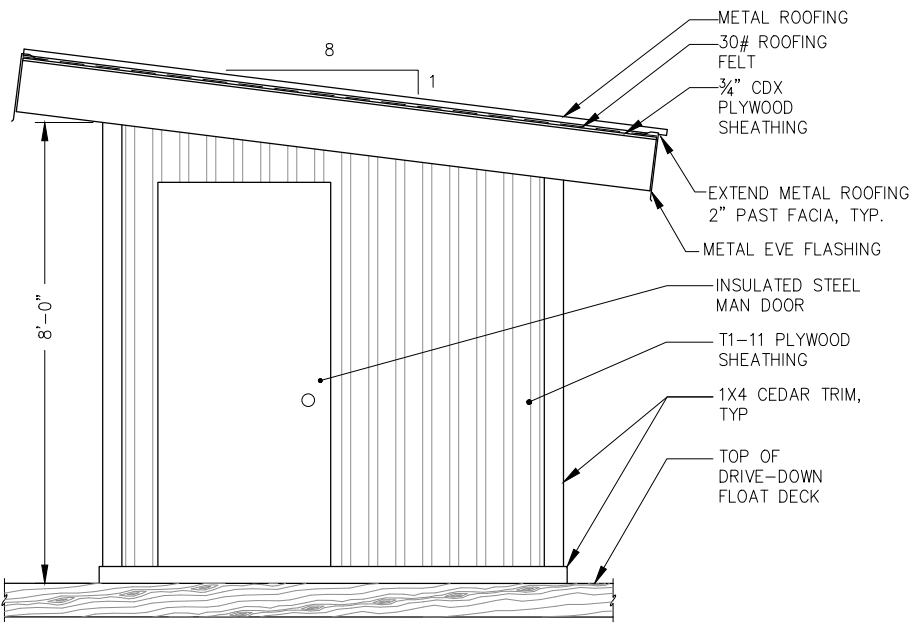
FLOOR PLAN



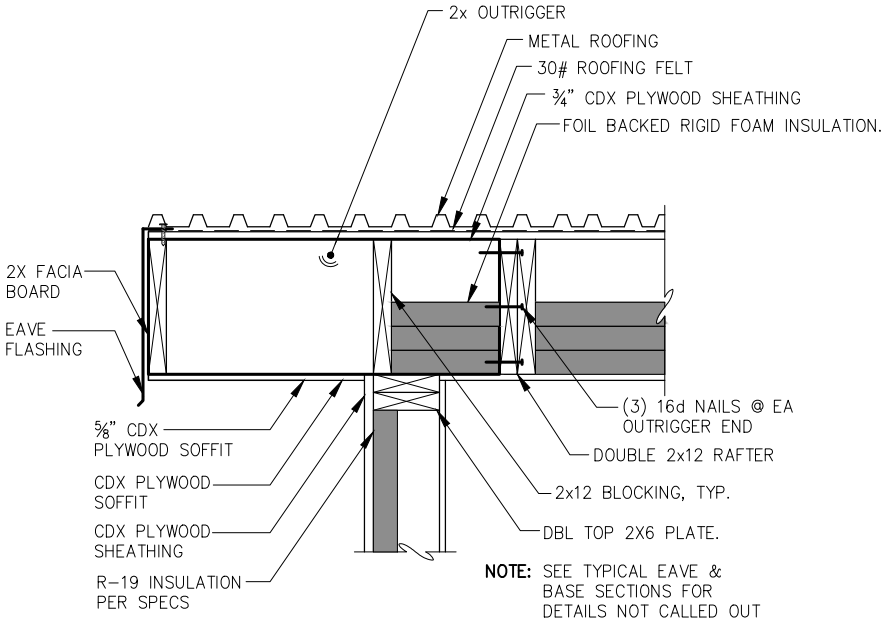
ROOF FRAMING PLAN



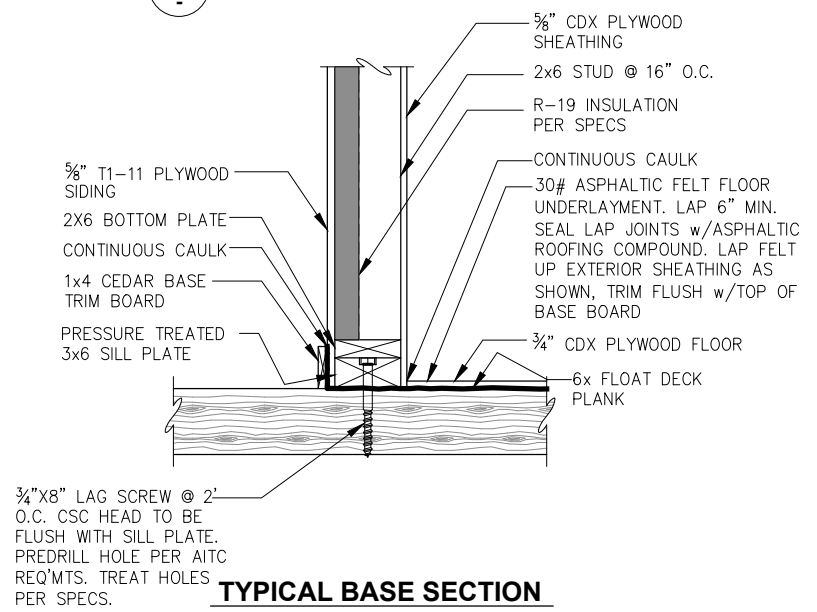
TYPICAL EAVE SECTION



ELEVATION



TYPICAL GABLE SECTION



TYPICAL BASE SECTION



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CONTRACT NO. DH26-022**

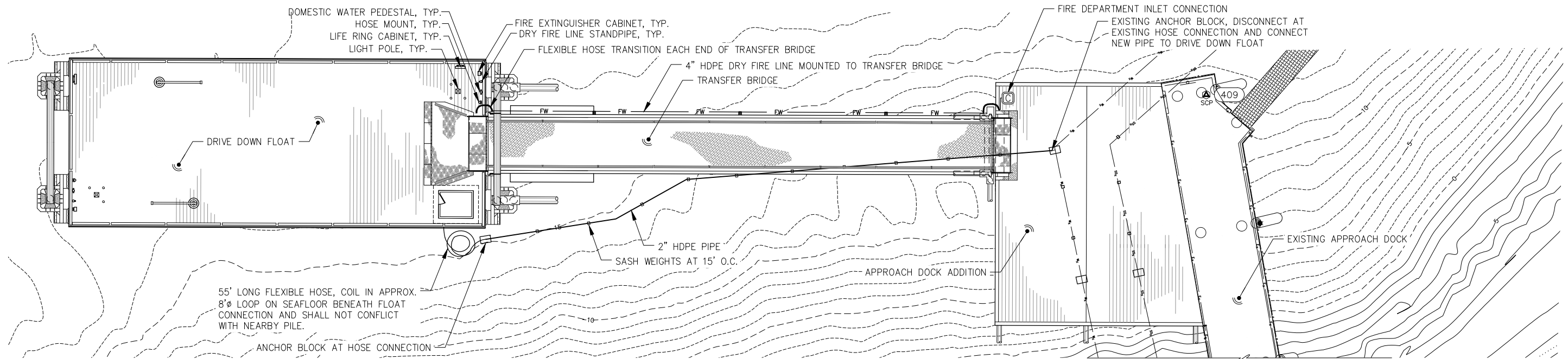
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FLOAT UTILITY SHED DETAILS**

S4.01

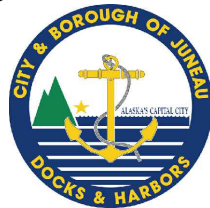
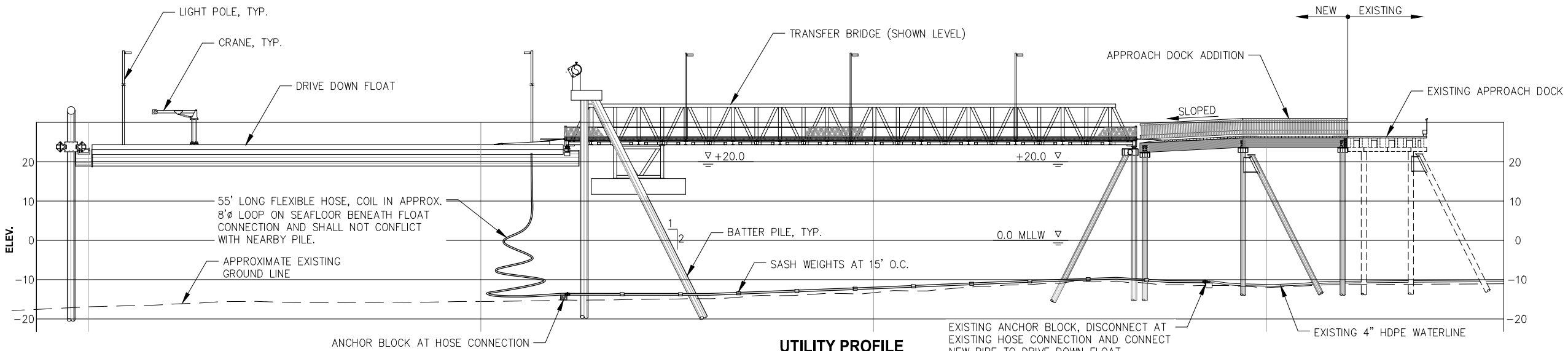
PND PROJECT #: 252065

C.A.N. NO.: AECC250

n:\25xxx\252065 aurora harbor dd\g. drawings\U1.01 Utility Plan and Elevation.dwg - Bbrown - 4/30/2026



UTILITY LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
	FIRE EXTINGUISHER CABINET	2 EA
	DRY FIRE LINE STANDPIPE	2 EA
	HOSE MOUNT	2 EA
	FIRE DEPARTMENT CONNECTION	1 EA
	DOMESTIC WATER PEDESTAL	2 EA
	FIRE EXTINGUISHER & LIFE RING	2 EA
	4\"/>	150 LF
	2\"/>	225 LF
	EXISTING WATER MAIN	-



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SCALE: 0 15 30 FT.
SCALE IN FEET

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AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
UTILITY SITE PLAN
AND PROFILE

PND PROJECT #: 252065 C.A.N. NO.: AECC250

U1.01

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CITY AND BOROUGH OF JUNEAU

AURORA HARBOR DRIVE DOWN FLOAT

SHEET LIST TABLE

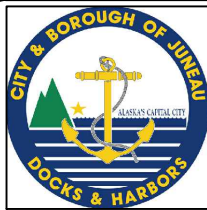
SHEET NO.	SHEET TITLE
E1	GENERAL NOTES, INDEX, & LEGEND
E2	EXISTING SITE PLAN - ELECTRICAL
E3	SITE PLAN - ELECTRICAL
E4	SINGLE LINE DIAGRAM - OVERALL
E5	ELECTRICAL BUILDING FLOOR PLAN
E6	ELECTRICAL SCHEDULES
E7	DECK MOUNTED PEDESTAL 30A-50A WIRING DIAGRAM
E8	HEAT TRACE JUNCTION BOX DETAIL
E9	LUMINAIRE SCHEDULE
E10	LIGHT POLE DETAIL
E11	CRANE DISCONNECT ELEVATIONS
E12	FLOAT READER CONTROL SCHEMATIC
E13	CARD ACCESS SYSTEM SCHEMATIC

GENERAL NOTES (APPLICABLE ALL SHEETS):

- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- PERFORM ALL WORK PER THE 2020 NATIONAL ELECTRICAL CODE (NEC) AND OTHER APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND STANDARDS. PROVIDE EQUIPMENT AND AN INSTALLATION THAT COMPLIES WITH ARTICLE 555 OF THE NEC.
- MOUNT ALL OF THE ELECTRICAL EQUIPMENT IN THE LOCATIONS SHOWN ON THE CIVIL DRAWINGS. LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE.
- THE CIVIL ASSEMBLIES TO BE USED IN MOUNTING ELECTRICAL EQUIPMENT ARE SHOWN ON THE CIVIL DRAWINGS ES SERIES (ELECTRICAL SUPPORT ASSEMBLIES). SEE THESE DRAWINGS FOR ALL INFORMATION ABOUT THESE ASSEMBLIES. COORDINATE THE DETAILS OF THESE ASSEMBLIES WITH THE MANUFACTURERS OF THE ELECTRICAL EQUIPMENT AND FLOATS. MOUNT THE ELECTRICAL SUPPORT ASSEMBLIES AS SHOWN ON THE CIVIL ES SERIES DRAWINGS. MOUNT THE ELECTRICAL EQUIPMENT AS SHOWN ON THE ELECTRICAL DRAWINGS. STUDY THE CIVIL DRAWINGS (ALL SERIES) TO UNDERSTAND HOW TO ROUTE CONDUIT AND CABLE AND HOW TO MOUNT ELECTRICAL EQUIPMENT. COORDINATE WITH ALL OTHER TRADES TO PERFORM THE ELECTRICAL WORK AND TO ALLOW THEM TO PERFORM THEIR WORK.
- ALL CONDUIT SHALL BE SCHEDULE 80 PVC. UNLESS NOTED OTHERWISE.
- PROVIDE MOUNTING EQUIPMENT AND HARDWARE AS REQUIRED TO MOUNT ELECTRICAL EQUIPMENT. SIZE MOUNTING BOLTS, BRACKETS, HARDWARE, ETC. FOR A SAFETY FACTOR OF 5 MINIMUM. ALL EQUIPMENT AND MATERIALS SHALL NOT MOVE WHEN PULLED OR PUSHED BY HAND (EXCEPT CABLES AND FLEXIBLE CONDUIT). SECURE ALL CONDUIT AND CABLES WITHIN 12 INCHES OF END OF CONDUIT AND CABLES AS REQUIRED PER NEC.
- FIELD TREAT ALL HOT DIPPED GALVANIZED MATERIALS THAT ARE CUT, DRILLED, SCRATCHED OR DAMAGED. SEE CIVIL FOR FIELD TREATMENT.
- ALL CONDUCTORS SHALL BE COPPER, ALL INSULATION SHALL BE 600V RATED, TYPE XHHW FOR CONDUCTORS NOT IN A CABLE. ALL CABLES SHALL BE THE TYPE SPECIFIED, NO SUBSTITUTIONS. USE STAINLESS STEEL STRAPS TO SECURE CONDUIT, UNLESS OTHERWISE NOTED. PROVIDE HEAT SHRINK OVER ALL CRIMP CONNECTIONS WHEN TERMINATING A CABLE. NO SPLICES IN ANY CABLES OR CONDUCTORS.
- IF GALVANIZED THREADS ARE CHASED IN ORDER TO BE USABLE, TREAT CHASED THREADS WITH BRAKE CLEANER, THEN COAT WITH MARINE TRAILER WHEEL BEARING GREASE BEFORE APPLYING A STAINLESS STEEL WASHER AND NUT.
- USE 316 STAINLESS STEEL BOLTS, WASHERS, ETC. TO MOUNT ELECTRICAL EQUIPMENT AND STRUT CHANNEL. ALL FASTENERS AND OTHER EXPOSED HARDWARE SHALL BE 316 STAINLESS STEEL.
- SEAL ALL PENETRATIONS IN ELECTRICAL EQUIPMENT WITH UL LISTED HARDWARE FOR SUCH USE. USE RUBBER OR SILICONE WASHERS IN ADDITION TO STAINLESS STEEL WASHERS. SEE NOTE 26 FOR MORE ON SEALING REQUIREMENTS.
- USE 316 STAINLESS STEEL STRUT CHANNEL (UNISTRUT) TO SUPPORT CABLES, PANELS, POWERHEADS, AND ALL OTHER ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED. TRIM STRUT CHANNEL 1/4" SHORT OF EDGE OF EQUIPMENT AND POSTS. SAND END OF STRUT CHANNEL SMOOTH. MOUNT ALL PANELS TO GALVANIZED TUBES THAT ARE PART OF ELECTRICAL EQUIPMENT SUPPORTS. SEE CIVIL. USE CABLE SUPPORTS THAT COMPLY WITH 555.13(4). USE CUSHION STRAPS WHEN SUPPORTING CABLE TO STRUT CHANNEL.
- ROUTE CABLES IN CABLE TRAY IN FLOAT UNDER DECKING. SECURE CABLE TO CABLE TRAY WITH NM CABLE TIES EVERY 6' AS WELL AS WHERE CABLE ENTERS AND LEAVES TRAY. DO NOT EXCEED 8 TIMES CABLE DIAMETER FOR BENDING RADIUS. USE STAINLESS STEEL CABLE GRIP CONNECTORS FOR ALL CABLE ENTERING AND LEAVING CONDUIT. SEE NOTE 18 FOR CABLE TIE REQUIREMENTS.
- ALL CABLE TERMINATIONS AND ALL ELECTRICAL CONNECTIONS SHALL BE A MINIMUM OF 12 INCHES ABOVE THE FLOAT DECKING INCLUDING WIRING TERMINATIONS, RECEPTACLES, ETC.
- ALL OUTSIDE ENCLOSURES SHALL BE NEMA 4X 316L STAINLESS STEEL. ALL INSIDE ENCLOSURES SHALL BE NEMA 1 PAINTED STEEL.
- PROVIDE OXIDE INHIBITING COMPOUND ON ALL ELECTRICAL CONNECTIONS. BURNDY PENTROX TYPE A OR E AS REQUIRED.
- ALL LUGS AND ELECTRICAL TERMINALS SHALL BE COPPER OR TIN PLATED HIGH CONDUCTIVE ALUMINUM.
- SECURE CABLE TO CABLE TRAY WITH 500 LB MINIMUM TY-WRAPS WHEN TRANSITIONING BETWEEN FLOAT SECTIONS TO KEEP CABLE FROM CHAFING. PANDUIT MLT 316 SS SERIES OR EQUAL. ALLOW SLACK IN CABLE AT FLOAT TRANSITIONS.
- ALL CONDUIT SHALL BE SCHEDULE 80 PVC, HEAVY DUTY FIBERGLASS, OR GALVANIZED RIGID STEEL AS NOTED. COMPLY WITH NOTE 27.
- CABLE ROUTING AT ALL TRANSITIONS BETWEEN UPLANDS, GANGWAY, AND FLOATS SHALL BE INSTALLED SO THAT IT WILL NOT BE DAMAGED AT THE MINIMUM AND MAXIMUM TIDAL POSITIONS ON SKID PLATES AND HINGED FLOAT CONNECTIONS.
- BUILD THE PROJECT AS DESIGNED. DO NOT ASSUME THE DESIGN WILL BE CHANGED AT CONTRACTOR'S REQUEST.
- NOT ALL CABLES IN FLOAT ARE SHOWN FOR CLARITY. REVIEW CIVIL DRAWINGS TO UNDERSTAND HOW TO ROUTE CABLES IN THE FLOAT. ROUTE CABLES TO AVOID STRUCTURAL MEMBERS IN A MANNER THAT USES THE HIGHEST POSSIBLE BENDING RADIUS OF THE CABLE.
- IF EQUIPMENT TO BE INSTALLED ON THE PROJECT HAS NOT ARRIVED AND TEMPORARY MEANS OF COVERING OR PROTECTING INFRASTRUCTURE IS NECESSARY, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROVISIONS AND TEMPORARY MEANS OF PROTECTION. AT ALL TIMES THE JOB SITE SHALL REMAIN IN A SAFE AND WORKMANLIKE CONDITION.
- PROVIDE A SUBMITTAL REGISTRY WITH A FULL LIST OF PROJECT SUBMITTALS WHERE REQUIRED PER SECTION. INCLUDE IN THE REGISTRY DATE OF EACH SUBMISSION, RESPONSES PROVIDED BY THE ENGINEER, ETC. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE SUBMITTALS PRIOR TO COMMENCEMENT OF ANY APPLICABLE WORK WITHIN THE SECTIONS. CONTRACTOR SHALL NOT COMMENCE WORK UNTIL SUBMITTALS ARE APPROVED IN WRITING.
- ALL JUNCTION BOXES AND ENCLOSURES ON THE PROJECT SHALL BE PROVIDED WITH VENT DRAIN TO CONTINUOUSLY DRAIN ACCUMULATED WATER AND TO HELP AIR PRESSURIZATION WITHIN ENCLOSURE. STAINLESS STEEL, HOFFMAN AVDR4SS4 OR EQUAL.
- ALL JUNCTION BOXES AND ENCLOSURES WITH PENETRATIONS EXPOSED TO OUTSIDE AIR AND MOISTURE SHALL BE SEALED WITH FOAM TO ELIMINATE ALL GAPS AND CRACKS. PROVIDE IN SUBMITTALS FOR REVIEW. PROVIDE LOCKTITE TITE FOAM OR EQUAL.
- ALL CABLE CLAMPS PROVIDED ON THIS PROJECT SHALL INCLUDE INSULATED INNER MATERIAL TO PROTECT CABLE JACKETS.
- ALL JUNCTION BOXES AND ENCLOSURES SHALL COME EQUIPPED WITH A MOUNTING BACK PLANE IN THE BOX TO SECURE DISTRIBUTION BLOCKS ON. GROUND ALL THE BACK PLANES AND CONNECTED COMPONENTS.
- ALL CABLES TRANSITIONING THROUGH THE FLOATS SHALL HAVE CHAFING PROTECTION ADDED BETWEEN THE CABLES AND THE ADJACENT FLOAT CABLE GUARDS OR MATERIAL THE CABLES REST ON AND WILL RUB AGAINST. USE 24" SECTIONS OF RUBBER CABLE JACKET THAT WAS STRIPED FOR TERMINATING CABLE FOR THIS PROTECTION. SECURE TO PROTECTED CABLES WITH NM CABLE TIES 6" ON CENTER.

LEGEND

CL	CENTER-LINE
	CIRCUIT BREAKER (AMPS/POLES)
CBJ	CITY & BOROUGH OF JUNEAU
CIVIL	CIVIL PROJECT DRAWINGS
CONDS.	CONDUCTORS
	CONTACTOR
CT	CURRENT TRANSFORMER
	DISCONNECT
F	FIRE PEDESTAL
GRS	GALVANIZED RIGID STEEL
GND	GROUND
	GROUND BUS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
GFPR	GROUND FAULT PROTECTION RELAY
HT	HEAT TRACE
	HEAVY DUTY DISCONNECT (AMPS/POLES AS SHOWN)
	HOME RUN
LTG	LIGHTING
	LIGHTING CONTACTOR
	LUMINAIRE
MW	MAINWALK
NEC	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
NM	NON METALLIC
	PHOTO ELECTRIC CELL
	RECEPTACLE, 120V, 20A INDUSTRIAL SPEC GRADE, WHITE WITH STAINLESS COVER PLATE
UNISTRUT	SUPPORT CHANNEL UNISTRUT BRAND OR EQUAL
(TYP)	TYPICAL
UHMW-PE	ULTRA HIGH DENSITY MOLECULAR WEIGHT
AEL&P	UTILITY
	UTILITY METER
	WATER PEDESTAL



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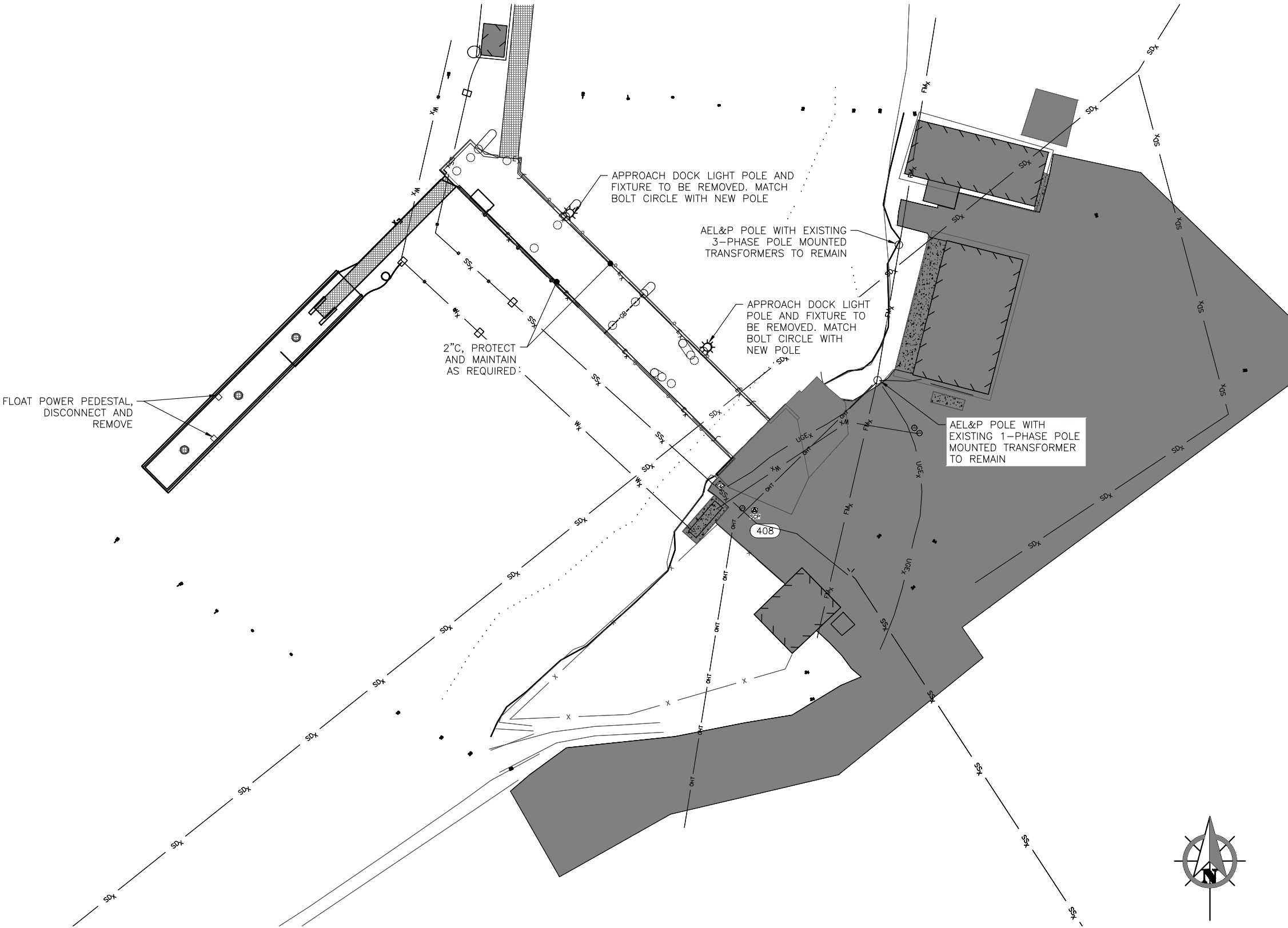
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GENERAL NOTES, INDEX, & LEGEND

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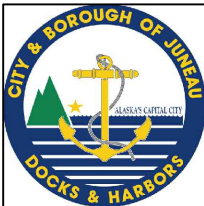
E1

y:\118 PN&D\90 aurora harbor dive down float\working drawings\SITE PLAN - ELECTRICAL.dwg - Jodi - 5/11/2026

NOTE:
1. FOR EQUIPMENT TO BE REMOVED, REMOVE ALL ELECTRICAL BACK TO THE CIRCUIT BREAKER THAT FEEDS THEM OR TO NEXT PEDESTAL OR LIGHT FIXTURE.



① EXISTING SITE PLAN - ELECTRICAL



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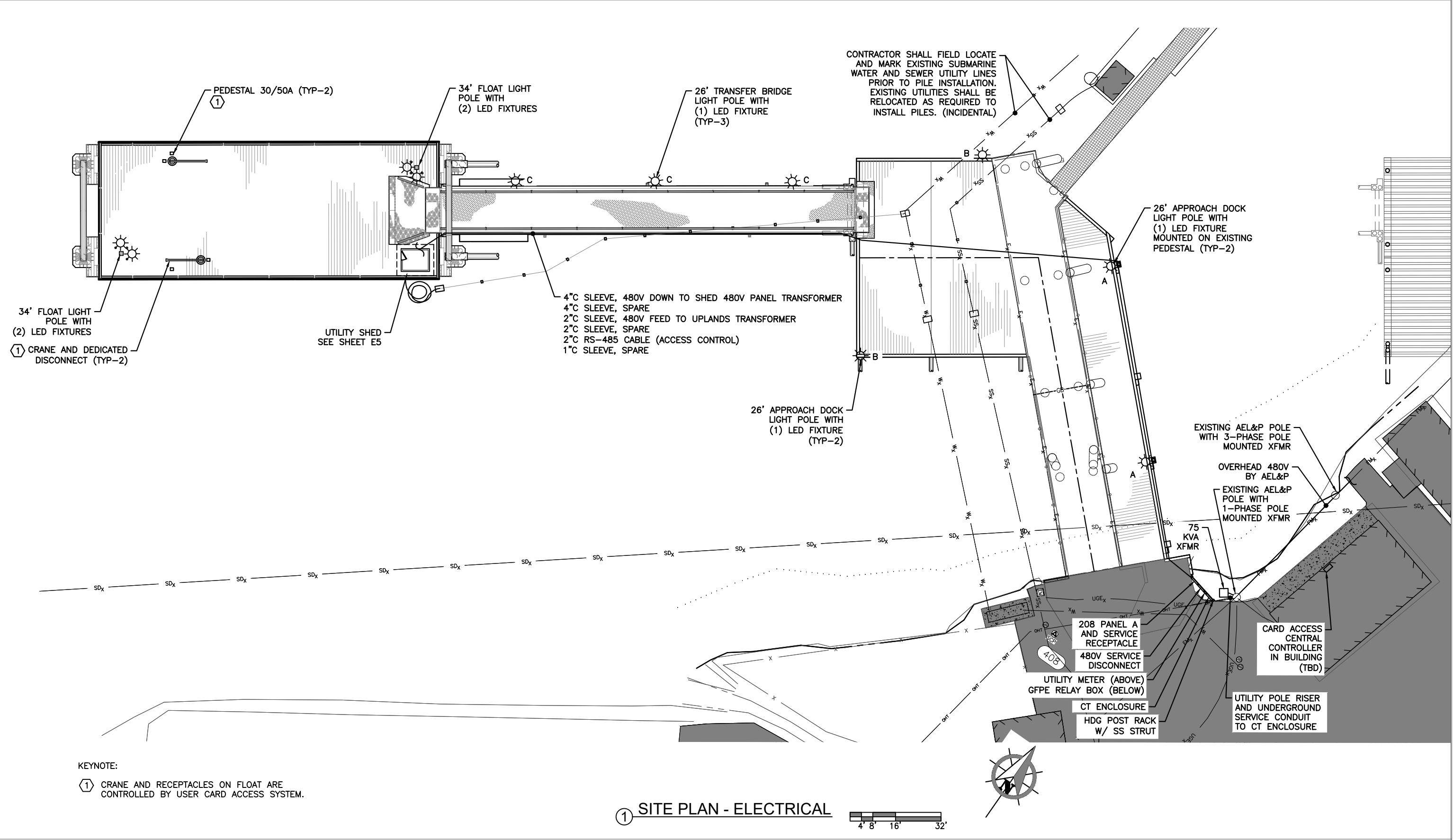
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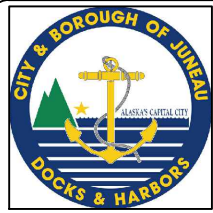
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E2

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1 SITE PLAN - ELECTRICAL



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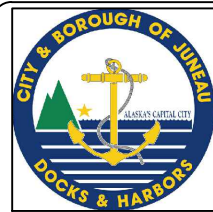
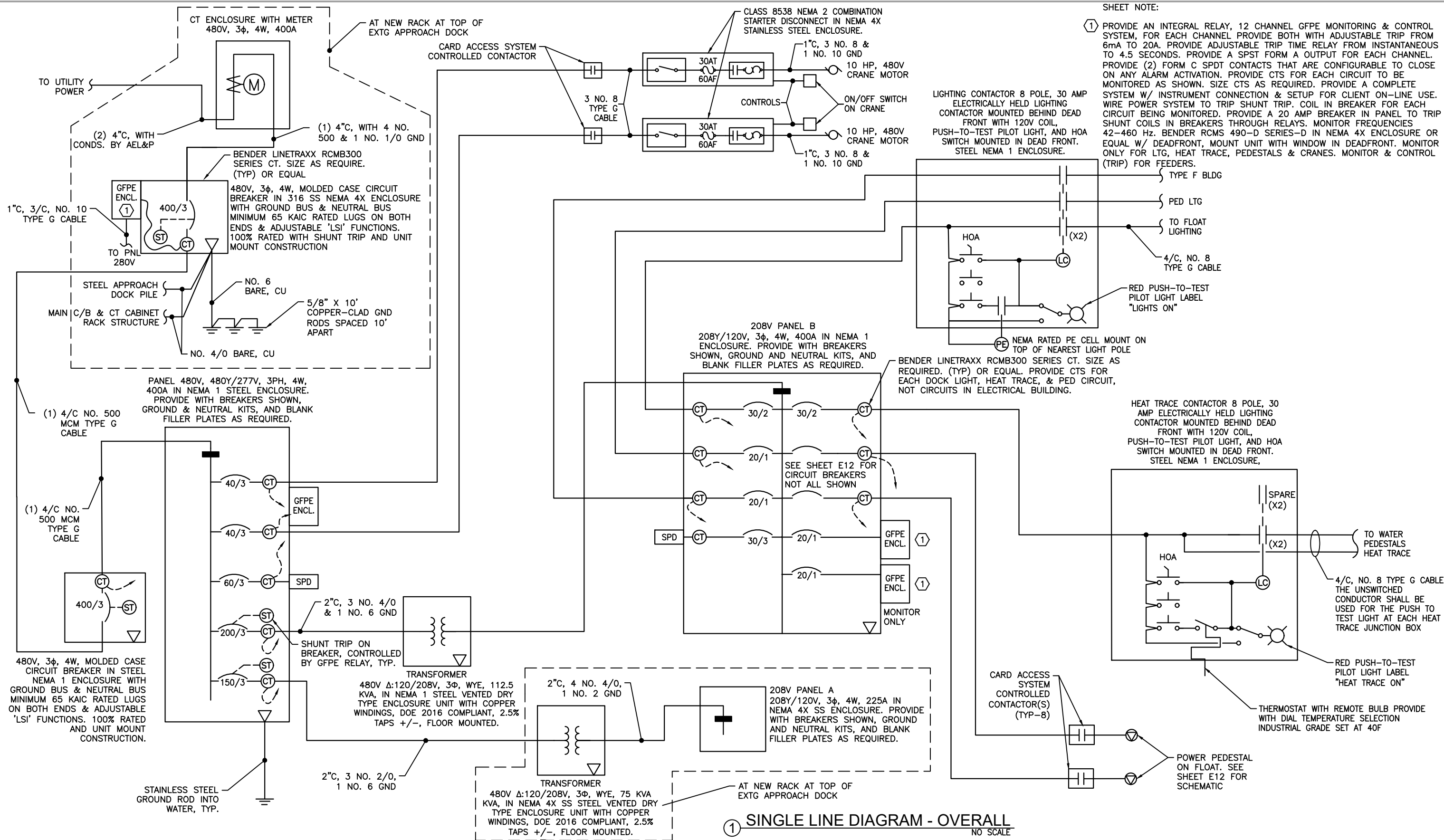
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CONTRACT NO. DH26-022

SHEET TITLE:
SITE PLAN - ELECTRICAL

PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E3

y:\118 PN&D\90 aurora harbor drive down float\working drawings\E4 SINGLE LINE DIAGRAM - OVERALL.dwg - Chris - 5/11/2026



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CONTRACT NO. DH26-022**

SHEET TITLE:

SINGLE LINE DIAGRAM - OVERALL

PND PROJECT #: 252065

C.A.N. NO.: AECL1010

E4

y:\118 PN&D\90 aurora harbor drive down float\working drawings\E5 ELECTRICAL BUILDING FLOOR PLAN.dwg - Chris - 5/11/2026



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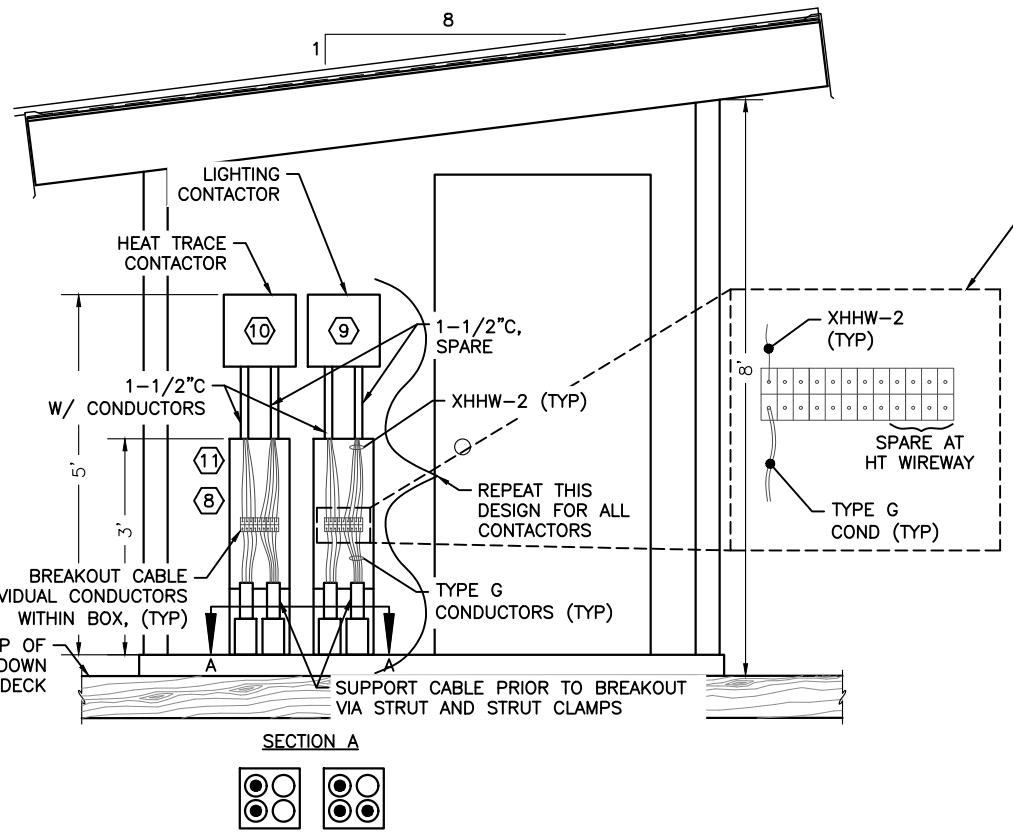
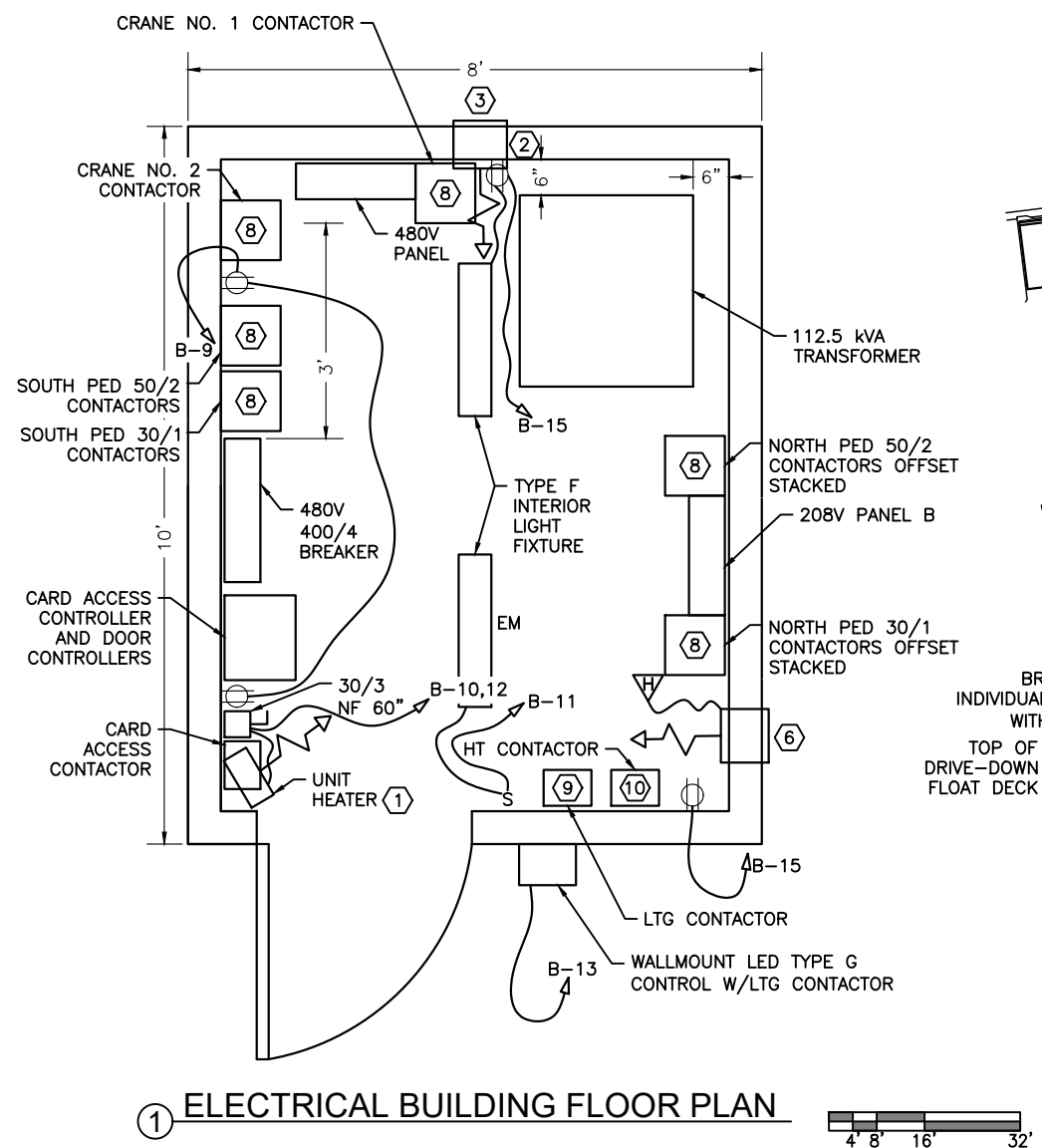
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CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
ELECTRICAL BUILDING FLOOR PLAN

PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E5



BLOW-UP AT DISTRIBUTION BLOCKS IN WIREWAY. TRANSITION FROM TYPE G CONDUCTORS TO TYPE XHHW-2 CONDUCTORS AT DISTRIBUTION BLOCKS, (TYP. BOTH BOXES). (8) BLOCKS FOR PROJECT CKTS, (4) BLOCKS FOR FUTURE USE IN EACH BOX.

NOTES:

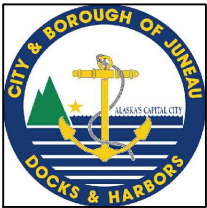
- (1) ELECTRICAL UNIT HEATER WITH BUILT IN THERMOSTAT AND WALL MOUNT KIT. MARLEY MUH0581 OR EQUAL. MOUNT ON WALL 6" BELOW CEILING.
- (2) 6"W X 8"H COUNTER BALANCED BAROMETRIC RELIEF AIR DAMPER WITH BALL BEARING 316 STAINLESS STEEL FRAME, BLADES, AND BEARINGS. GREEN HECK SEBR-32 SERIES. FLANGE ON INTAKE. TRIM AROUND DAMPER WITH 3/18" X 3" FIR WITH WATCO OIL FINISH. ADJUST LOUVER TO OPEN WHEN VENTILATION FAN RUNS. MOUNT TOP 6" BELOW CEILING.
- (3) 316 STAINLESS STEEL INTAKE HOOD. SIZED TO FIT OVER RELIEF AIR DAMPER FULL WIDTH AND HEIGHT OF DAMPER. BOTTOM OF HOOD SHALL EXTEND MIN. 8" OFF WALL, PROVIDE WITH 316 STAINLESS STEEL BIRD SCREEN.
- (4) SURFACE MOUNT LIGHT FIXTURES TO CEILING WITH STAINLESS STEEL HARDWARE. SPACE EQUI-DISTANCE ACROSS ROOM AND CENTER.
- (5) HUMIDISTAT 120V, 7 AMP, 20-80 PERCENT HUMIDITY SWITCH CLOSSES AND ENERGIZED THE FAN ON AN INCREASE IN RELATIVE HUMIDITY. A DECREASE IN HUMIDITY TO THE SET POINT MINUS THE DIFFERENTIAL, BREAKS THE SWITCH TO STOP THE FAN.
- (6) THROUGH THE WALL VENTILATION FAN (70 CFM, 120V) WITH EXTERIOR HOOD. PANASONIC FV-08WQI. MOUNT TOP 6" BELOW CEILING.
- (7) MOUNT ALL RECEPTACLES AT 36" ALL RECEPTACLES SHALL BE 20A, 120V, INDUSTRIAL SPEC GRADE, GFI TYPE. NO WIRING BELOW 15" AFF.
- (8) 10" X 10" X 36" VERTICAL WIREWAY USED AS TYPE G CABLE BREAKOUT BOX. SECURE CABLE TO STRUT AT 12" AFF AND SEPARATE OUT CONDUCTORS PRIOR TO PANEL ENTRY.
- (9) LIGHTING CONTACTOR, SEE SHEET E4 FOR FULL DESCRIPTION. SEE SHEET E12 FOR ELEVATION.
- (10) HEAT TRACE CONTACTOR, SEE SHEET E4 FOR FULL DESCRIPTION. MOUNT SIDE-BY-SIDE TO LIGHTING CONTACTOR. SEE SHEET E12 FOR ELEVATION.
- (11) TRANSITION THE TYPE G CABLES INTO THE ELECTRICAL FLOAT PANELS AND CONTACTORS. ROUTE THROUGH UHMW-PE MATERIAL AND INTO NEMA 1 BREAKOUT BOX. PROVIDE UNISTRUT WITHIN THE BOX AND LAND TYPE G CABLE CONDUCTORS TO XHHW STRANDED CONDUCTORS ON POWER DISTRIBUTION BLOCKS AS SHOWN. UNISTRUT HEIGHT TO BE 13" AFF OR HIGHER.

y:\118 PN&D\90 aurora harbor dive down float\working drawings\E6 ELECTRICAL SCHEDULES.dwg - Jodi - 5/11/2026

208V PANEL A			SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION	
			225A	208Y/120V, 3ϕ, 4W			SURFACE		MLO	UPLAND RACK	
CKT NO.	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO.	
			CKT	Aϕ	Bϕ	Cϕ	CKT				
1	SERVICE RECEPTACLE (GFCI)	20/1	0.2	0.2			0.0	30/2	SPARE	2	
3	SPARE	20/1	0.0		0.0		0.0	—	—	4	
5	SPARE	20/1	0.0			0.0	0.0	30/2	SPARE	6	
7	SPARE	20/1	0.0	0.0			0.0	—	—	8	
9	SPARE	20/1	0.0		0.0		0.0	30/2	SPARE	10	
11	SPARE	20/1	0.0			0.0	0.0	—	—	12	
13	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	14	
15	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	16	
17	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	18	
19	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	20	
21	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	22	
23	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	24	
25	SPARE	30/3	0.0	0.0			0.0	30/3	SPD	26	
27	—	—	0.0		0.0		0.0	—	—	28	
29	—	—	0.0			0.0	0.0	—	—	30	
TOTAL CONNECTED LOAD = 0 KVA / 0 AMPS				0.2	0.0	0.0					

480V PANEL H			SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
			400A	480Y/277V, 3ϕ, 4W		SURFACE		MLO	UTILITY SHED ON FLOAT	
CKT NO.	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO.
			CKT	Aϕ	Bϕ	Cϕ	CKT			
1	NORTH CRANE NO. 1	40/3	5.9	11.8			5.9	40/3	SOUTH CRANE NO. 2	2
3	—	—	5.9		11.8		5.9	—	—	4
5	—	—	5.9			11.8	5.9	—	—	6
7	112.5 KVA TRANSFORMER	200/3	24.1	24.1			0.0	40/3	SPARE	8
9	—	—	24.1		24.1		0.0	—	—	10
11	—	—	24.1			24.1	0.0	—	—	12
13	SPARE	125/3	0.0	0.0			0.0	60/3	SPD	14
15	—	—	0.0		0.0		0.0	—	—	16
17	—	—	0.0			0.0	0.0	—	—	18
19	75 KVA TRANSFORMER (VIA PANEL A)	125/3	0.2	0.2			0.0	60/3	SPARE	20
21	—	—	0.0		0.0		0.0	—	—	22
23	—	—	0.0			0.0	0.0	—	—	24
25	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	26
27	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	28
29	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	30
TOTAL CONNECTED LOAD = 75.5 KVA/ 91 AMPS				36.1	35.9	35.9				

208V PANEL B			SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION	
			400A	208Y/120V, 3φ, 4W			SURFACE		MLO	ELECTRICAL BUILDING ON FLOAT	
CKT NO.	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO.	
			CKT	Aφ	Bφ	Cφ	CKT				
1	LTG CONTACTOR CKT A	30/2	0.2	0.4			0.2	30/2	HT CONTACTOR CKT A	2	
3	—	—	0.2		0.4		0.2	—	—	4	
5	LTG CONTACTOR CKT B	30/2	0.0			0.2	0.2	30/2	HT CONTACTOR CKT B	6	
7	—	—	0.0	0.2			0.2	—	—	8	
9	BLDG RECEPTACLES	20/1	0.4		2.9		2.5	30/2	BLDG ELEC HEATER	10	
11	BLDG INTERNAL LIGHTING	20/1	0.2			2.7	2.5	—	—	12	
13	BLDG EXTERNAL LIGHTING	20/1	0.2	0.4			0.2	20/1	BLDG VENT FAN	14	
15	BLDG RECEPTACLES	20/1	0.4		0.4		0.0	30/2	SPARE	16	
17	—	20/1	0.0			0.0	0.0	—	—	18	
19	GFPE POWER FOR POWER PED RELAYS	20/1	0.0	0.0			0.0	20/1	SPARE	20	
21	GFPE POWER FOR 480V PANEL RELAY	20/1	0.0		0.0		0.0	20/1	SPARE	22	
23	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	24	
25	SPARE	20/1	0.0	0.0			0.0	30/3	SPD	26	
27	SPARE	20/1	0.0		0.0		0.0	—	—	28	
29	SPARE	20/1	0.0			0.0	0.0	—	—	30	
31	NORTH POWER PEDESTAL SIDE 1	50/2	5.2	16.0			10.8	50/2	SOUTH POWER PEDESTAL SIDE 1	32	
33		—	5.2		16.0		10.8	—		34	
35		30/1	3.6			14.4	10.8	30/1		36	
37	NORTH POWER PEDESTAL SIDE 2	50/2	5.2	5.2			0.0	50/2	SOUTH POWER PEDESTAL SIDE 2	38	
39		—	5.2		5.2		0.0	—		40	
41		30/1	3.6			3.6	0.0	30/1		42	
TOTAL CONNECTED LOAD = 48 KVA / 132 AMPS				22.2	24.9	20.9	ALL BREAKERS IN THIS PANEL SHALL BE GFPE WITH 30mA TRIP				



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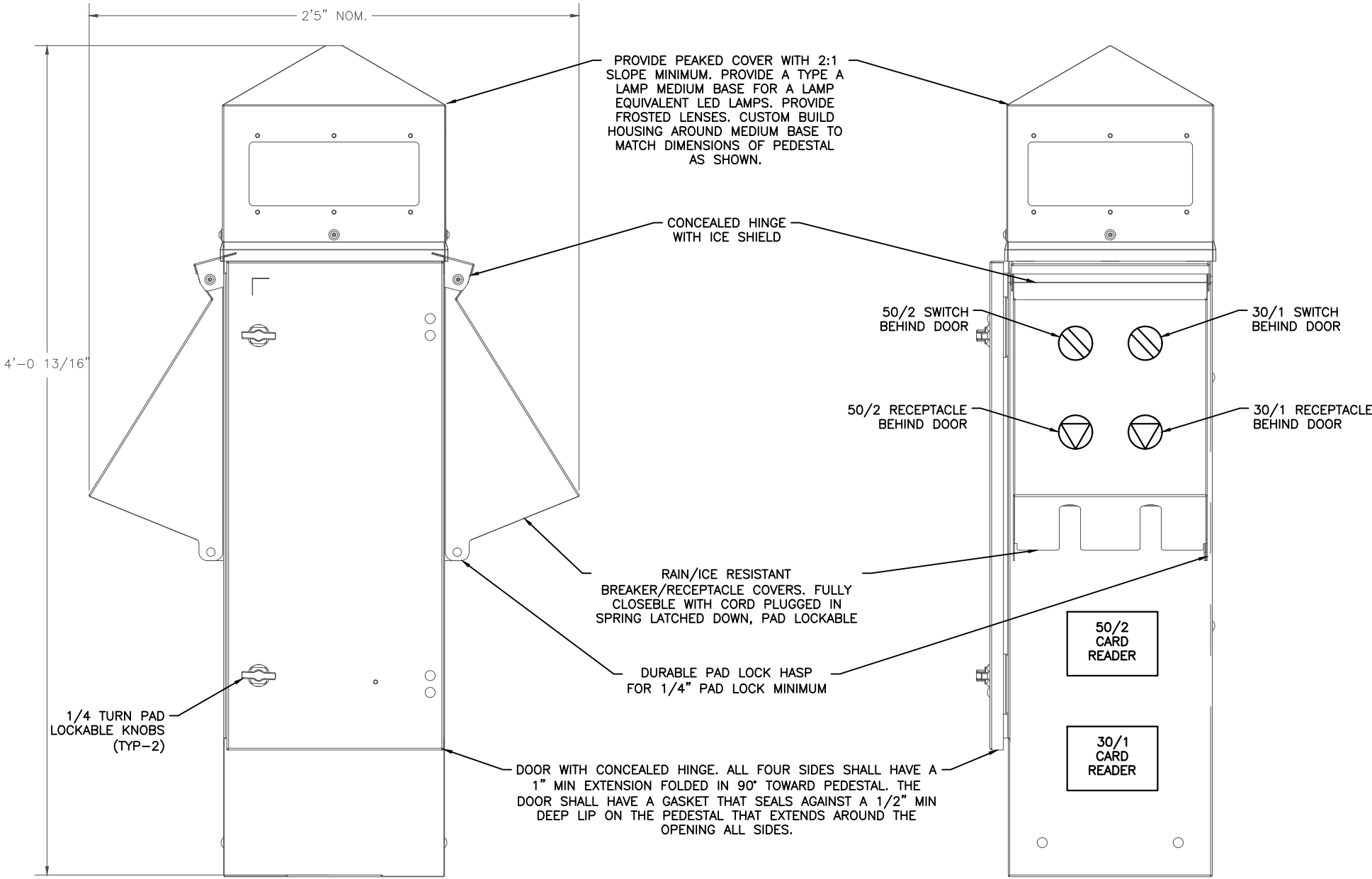
CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
ELECTRICAL SCHEDULES

PND PROJECT #: 252065 | C.A.N. NO.: AECL1010

E6

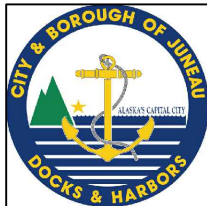
y:\118 PN&D\90 aurora harbor dive down float\working drawings\EB DECK MOUNTED PEDESTALS.dwg - Jodi - 5/11/2026



NOTES:

1. PEDESTAL SHALL BE FABRICATED FROM MIN 12" X 13" X 3/16" 316 STAINLESS STEEL, POWDER COATED WHITE. PROVIDE A LISTED ASSEMBLY FOR MARINE PEDESTAL (UL, ETC, OR EQUIVALENT NRTL). DIMENSIONS AS SHOWN. ALL MOUNTING BRACKETS, PLATES, STUDS, BOLTS, HARDWARE, WASHERS, NUTS, PARTITIONS, ETC. SHALL BE 316 STAINLESS STEEL.
2. USE NON-METALIC BUSHINGS AND OTHER METHODS TO PREVENT DIS-SIMILAR METALS FROM CONTACTING ONE ANOTHER. PROVIDE COPPER BUSS BARS. ALL WIRING SHALL BE TINNED COPPER, XHHW.
3. THE PEDESTALS SHOWN HAVE BEEN CUSTOM DESIGNED FOR THIS PROJECT. ONLY TRUE EQUALS WITH ALL THE SAME FEATURES, DIMENSIONS, EQUIPMENT AND FUNCTION WILL BE ACCEPTED.
4. THIS PEDESTAL IS DESIGNED FOR FLOATS WHERE THE DECK IS LOCATED A MINIMUM OF 18" ABOVE THE WATER LEVEL. PUT A BASE UNDER THE PEDESTAL IF DECK IS LESS THAN 18" ABOVE WATER LEVEL.
5. PROVIDE A DRIP EDGE AROUND INSIDE OF EACH DOOR IN THE SAME MANNER AS ON POST MOUNTED PEDESTAL POWERHEADS.
6. PROVIDE LUMINAIRE IN PEDESTAL WITH MEDIUM BASE FOR A TYPE LED LAMP. PROVIDE A COVER WITH 2:1 SLOPE MINIMUM, MOUNTED TO PEDESTAL IN SAME MANNER AS LUMINAIRE SO A LUMINAIRE MAY BE ADDED LATER.
7. ORIENT DOOR FACING BULL RAIL. TO ALLOW ACCESS FOR MAINTENANCE.
8. PROVIDE DRIP EDGES ON TOP AND BOTH SIDES OF PEDESTAL JUST INSIDE COVERS FOR CIRCUIT BREAKERS AND RECEPTACLES.
9. ADJUST SIZE OF OPENINGS IN DEAD FRONT TO CIRCUIT BREAKER USED. OPENINGS SHALL ALLOW CIRCUIT BREAKER TO BE OPERATED INCLUDING GFI TEST, RESET, ADJUSTMENT TO BE ACCESSED.

① DECK MOUNTED PEDESTAL 30A/50A
EXTERIOR VIEW



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**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
**DECK MOUNTED PEDESTAL 30A-50A
WIRING DIAGRAM**

PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E7



The diagram illustrates the installation of a water pedestal through a deck. Key components and labels include:

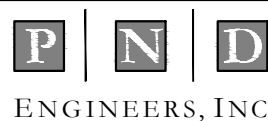
- J-BOX, STAND**: The junction box assembly on the left.
- WATER PEDESTAL**: The vertical pipe assembly on the right.
- HEAT TRACE CONDUIT CONNECTION ON OUTBOARD SIDE OF PEDESTAL VIA SS LB CONDULET**: The connection point for the heat trace conduit.
- HEAT TRACE**: The heating element, labeled with a circled 5.
- HEAT TRACE J-BOX**: The junction box for the heat trace, labeled with a circled 4.
- ROUTE TYPE G CABLES THROUGH DECKING FROM CABLE TRAY (CABLE TRAY NOT SHOWN)**: The path for the main power cables.
- WATER PEDESTAL STAND**: The base of the pedestal on the right.
- BULLRAIL**: The railing structure on the right.
- HEAT TRACE CHANNEL**: The channel for the heat trace, labeled with a circled 5.
- NOTE:** **1"-6" MINIMUM 5'-0" MAX, LOCATE PER ENGINEER DIRECTION

② HEAT TRACE JUNCTION BOX DETAIL

-
- The technical drawings illustrate the water pedestal assembly from two perspectives:
- SIDE ELEVATION:** This view shows the profile of the pedestal. Key features include:
 - W/ 316 NYLOCK WASHERS:** Indicated at the top of the vertical assembly.
 - THRU-HOLE (TYP):** A hole in the vertical plate, with a note to **LOCATE TO FIT**.
 - BENT PLATE COVER, SEE CIVIL:** A curved cover plate at the base of the vertical section.
 - FRONT ELEVATION:** This view shows the front of the pedestal. Key features include:
 - PILOT LIGHT:** A rectangular box at the top.
 - 3/C NO. 10 SO CORD:** Three separate cables exiting from the bottom of the pilot light box.
 - BACK FACE OPENING FOR SO CORD TO WATER PEDESTAL:** A circular opening in the center of the pedestal body.
 - 4/C NO. 8 TYPE G CABLE:** Four bundled cables exiting from the bottom of the pedestal body.
 - STEEL BASE PLATE (TYP):** The base of the pedestal assembly.

③ HEAT TRACE JUNCTION BOX DETAIL

1. SEE SHEET E5 FOR DESCRIPTIONS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE HEAT TRACE.
2. SEE DETAIL 1, THIS SHEET FOR MORE INFORMATION ON JUNCTION BOX AND ELECTRICAL FOR THE HEAT TRACE SYSTEM.

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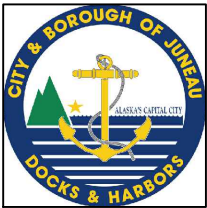
HEAT TRACE JUNCTION BOX DETAIL

PND PROJECT #: 252065	C.A.N. NO.: AECL1010
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y:\118 PN&D\90 aurora harbor dive down float\working drawings\LUMINAIRE SCHEDULE.dwg - Jodi - 5/11/2026

LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	SPARE	REMARKS
A	APPROACH DOCK RAMP	LITHONIA D--SERIES, SIZE 2 DSX2 LED P1 30K 80CRI T2M MVOLT HS DBLXD	80 CRI, TYPE 2 DIST. 3000K, (14,000 LUMENS)	SEE NOTE 3 & 4	POLE MOUNT TO SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. BLACK, TYPE 2, LOW GLARE DISTRIBUTION, WITH FIELD INSTALLED HOUSESIDE SHIELD, NO LIGHT ABOVE 65' ABOVE NADIR. CONTROLLED BY LIGHTING CONTACTOR.
B	APPROACH DOCK	LITHONIA D--SERIES, SIZE 2 DSX2 LED P2 30K 80CRI TFTM MVOLT HS DBLXD	80 CRI, TYPE TFTM DIST. 3000K, (18,000 LUMENS)	SEE NOTE 3 & 4	POLE MOUNT TO SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. BLACK, TYPE FORWARD THROW MEDIUM, LOW GLARE DISTRIBUTION, WITH FIELD INSTALLED HOUSESIDE SHIELD, NO LIGHT ABOVE 65' ABOVE NADIR. CONTROLLED BY LIGHTING CONTACTOR.
C	TRANSFER BRIDGE	LITHONIA D--SERIES, SIZE 1 DSX1 LED P2 30K 80CRI T1S MVOLT HS DBLXD	80 CRI, TYPE 1 DIST. 3000K, (800 LUMENS)	SEE NOTE 3 & 4	POLE MOUNT TO SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. BLACK, TYPE 1, LOW GLARE DISTRIBUTION, WITH FIELD INSTALLED HOUSESIDE SHIELD, NO LIGHT ABOVE 65' ABOVE NADIR. CONTROLLED BY LIGHTING CONTACTOR.
D	FLOAT	LITHONIA D--SERIES, SIZE 2 DSX2 LED P3 30K 80CRI TFTM MVOLT HS DBLXD	80 CRI, TYPE TFTM DIST. 3000K, (22,000 LUMENS)	SEE NOTE 3 & 4	POLE MOUNT TO SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. BLACK, TYPE FORWARD THROW MEDIUM, LOW GLARE DISTRIBUTION, WITH FIELD INSTALLED HOUSESIDE SHIELD, NO LIGHT ABOVE 65' ABOVE NADIR. CONTROLLED BY LIGHTING CONTACTOR.
F	4' SURFACE MOUNT, GASKETED HIGH BAY	COLUMBIA LXEW4-30L-CA-W-EU-F3C15W	3000K, (11,900 LUMENS)		PROVIDE WITH STAINLESS MOUNTING STRAPS (PART NO. XEWMHSS) CIRCUIT WITH XHHW CONDS. IN SCHE 80 PVC CONDUIT. PROVIDE WITH EX BATTERY WHERE NOTED, (PART NO. ELL14). IP666 RATED WITH CLEAR IMPACT RESISTANT ACRYLIC, WIDE DISTRIBUTION.
G	EXTERIOR WALL MOUNT CUTOFF LED WITH PE CELL	RAB LIGHTING SLIM17FAFC OR EQUAL	3000K, (3,500 LUMENS)		SURFACE MOUNT ON FLOAT BUILDING, WALL PACK WILL FULL CUTOFF, FIELD ADJUSTABLE COLOR TEMPERATURE, 40W, BLACK FINISH, WITH ON/OFF PHOTOCELL, AND OCCUPANCY SENSOR. MOUNT CENTER OF DOOR OR VENT, 2" ABOVE FRAME.
NOTES: 1. THE PART NUMBERS IN THE LUMINAIRE SCHEDULE MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE FEATURES SHOWN IN THE LUMINAIRE SCHEDULE (INCLUDING THE MOUNTING) AND AS SHOWN ON THE OTHER PLAN SHEETS, AND IN THE SPECIFICATIONS. 2. SEE LIGHT POLE DETAIL SHEET E13, LUMINAIRES SHALL BE FLAT BLACK. 3. CUTOFF LUMINAIRE. ONE PIECE DIE CAST LOW COPPER ALUMINUM ALLOY HOUSING. HOUSING SHALL HAVE A CURVED UPPER SURFACE TO PREVENT LIQUID FROM PUDDLING ON TOP OF FIXTURE. SOLID BARRIER WALL SEPARATING OPTICAL AND ELECTRICAL COMPONENTS. ONE PIECE SILICONE GASKETS SEAL COMPARTMENTS AT BARRIER SURFACE. OPTICAL MODULE UTILIZES IP66 RATED COMPONENTS. ALL OPTICAL MODULES ARE FASTENED TO THE BODY OF THE LUMINAIRE ACROSS THE CENTER AND AROUND THE PERIMETER. HOUSING AND SUPPORT ARM SHALL PROVIDE TOOL-LESS ENTRY. ELECTRICAL COMPARTMENT SHALL INCLUDE INTEGRAL 10KV SURGE PROTECTION. ALL ELECTRONIC COMPONENTS ARE UL AND CSA RECOGNIZED AND SHALL BE DIRECTLY MOUNTED TO A DRIVER TRAY. DRIVER SHALL BE RATED FOR -40°C STARTING AND HAVE A 0-10V DIMMING INTERFACE FOR MULTI-LEVEL ILLUMINATION OPTIONS. ALL ELECTRONIC COMPONENTS SHALL BE IP66 RATED. A TERMINAL BLOCK LOCATED IN THE ARM CAVITY SHALL ACCEPT #14 TO #8 WIRE SIZES. TERMINAL BLOCK SHALL BE FACTORY PREWIRED TO THE ELECTRICAL MODULE TO PROVIDE A QUICK-DISCONNECT PLUG INSIDE THE ELECTRICAL COMPARTMENT. MOUNTING ARM SHALL BOLT TO SQUARE POLE (OR ROUND POLE AS NEEDED). PROVIDE WITH WIRE STRAIN RELIEF. PROVIDE WITH SUPER TGIC THERMOSET POLYESTER POWDER COAT PAINT 2.5 MIL NOMINAL THICKNESS OVER TITANATED ZIRCONIUM CONVERSION COATING. 2500 HOUR SALT SPRAY TEST ENDURANCE RATING. 4. PROVIDE TWO SPARE LUMINAIRES OF EACH TYPE AND TWO SPARE DRIVERS, ONE OF EACH TYPE. PROVIDE FOUR OPTICAL MODULES OF EACH TYPE.					



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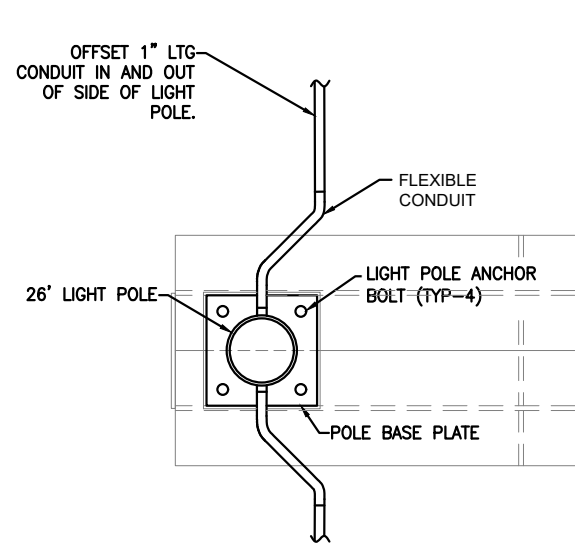
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CONTRACT NO. DH26-022

SHEET TITLE:
LUMINAIRE SCHEDULE

PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E9

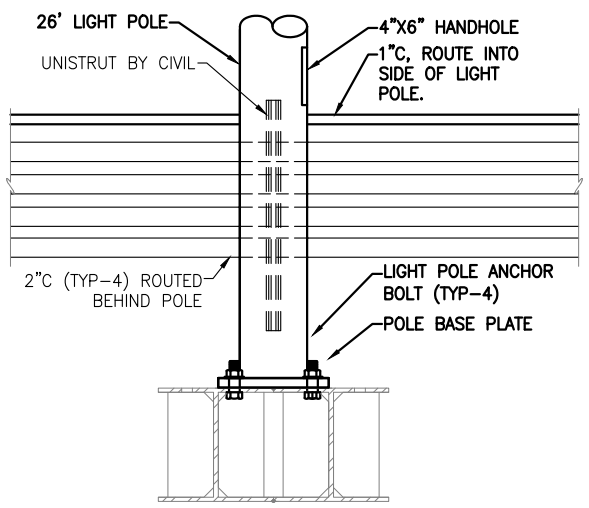
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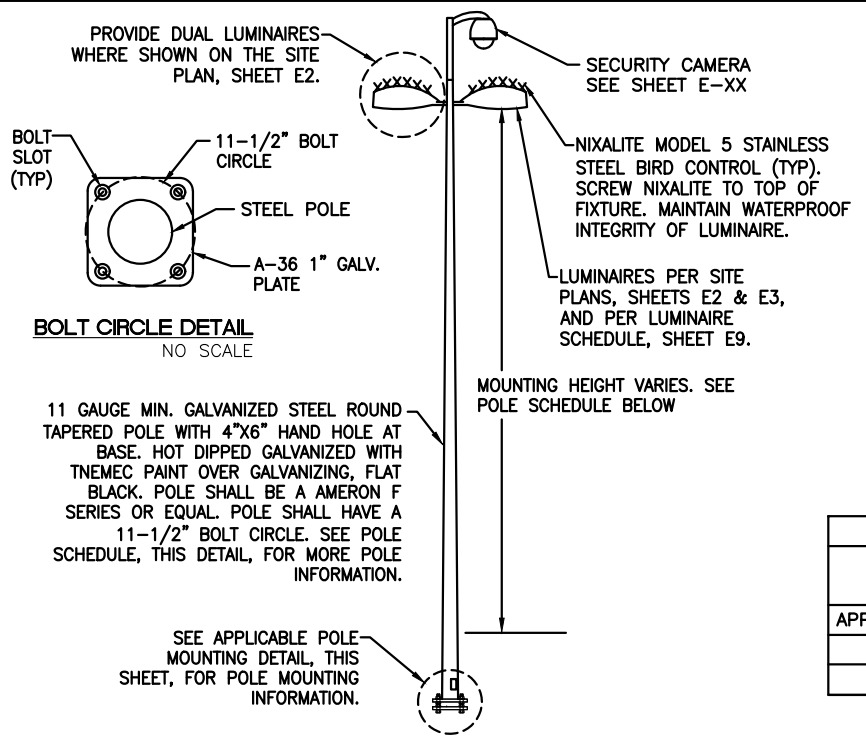
LGT POLE BASE-PLAN

NOTE:
1. COORDINATE WITH THE POLE MANUFACTURER TO PROVIDE 1" CONDUIT NIPPLES AND HANDHOLES AT THE BASE OF THE LIGHT POLE.

LGT POLE MOUNTING DETAIL-APPROACH (TYP)
NO SCALE



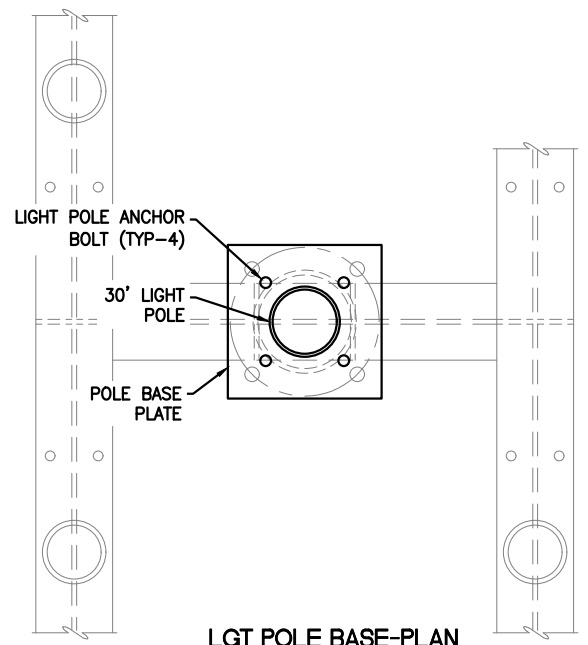
LGT POLE BASE-ELEVATION



MARINE LIGHT POLE DETAIL (TYP)
NO SCALE

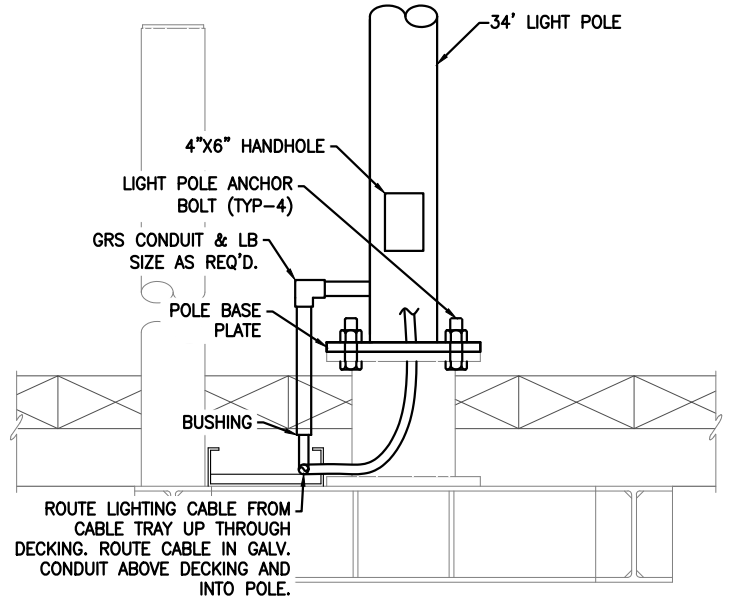
- NOTES:
1. THIS DETAIL APPLIES TO ALL APPROACH DOCK, TRANSFER BRIDGE, AND FLOAT LIGHT POLES. SEE SHEET E9 FOR PARKING LOT LIGHT POLE INFORMATION.
 2. ALL SPLICES SHALL BE IN BASE OF POLE.
 3. PROVIDE GROUNDING BUSHINGS ON CONDUIT.
 4. PROVIDE DOUBLE FUSED CONNECTOR KITS IN BASE OF POLE. SEC NO. 1791-DF OR EQUAL. LOCATE LIGHT POLE WHERE SHOWN ON THE PLAN SHEETS E2 AND E3.
 5. SIZE POLE WITH MAST ARM AND LUMINAIRE FOR 100 MPH SUSTAINED WINDS WITH GUSTS TO 120 MPH. PROTECT ANCHOR BOLTS FROM PHYSICAL DAMAGE DURING CONSTRUCTION.
 6. COORDINATE LIGHT BASE DIMENSIONS WITH CIVIL IF A LIGHT POLE OTHER THAN THE ONE SPECIFIED IS SUBSTITUTED.
 7. PROVIDE HAND HOLE AT BASE AND NEXT TO SECURITY CAMERA SEE E-19.

POLE SCHEDULE			
LOCATION	POLE HEIGHT	LUMINAIRE MT. HEIGHT (AFG)	AMERON POLE MODEL NO.
APPROACH DOCK	26'	22'	F-220-0
BRIDGE	26'	22'	F-220-0
FLOAT	34'	30'	F-300-0

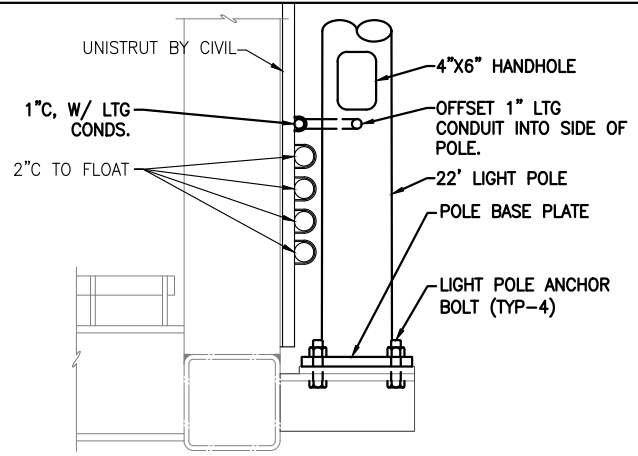


LGT POLE BASE-PLAN

LGT POLE MOUNTING DETAIL-FLOAT (TYP)
NO SCALE



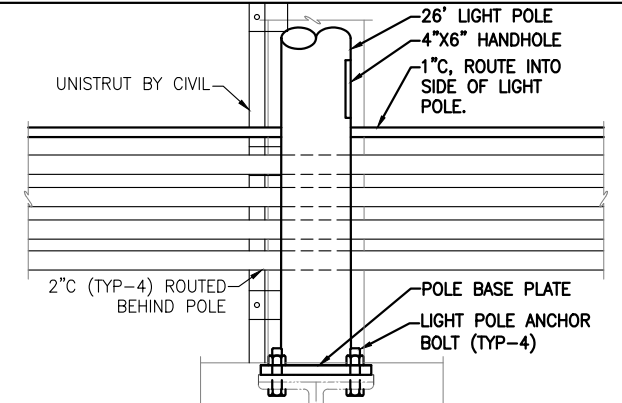
LGT POLE BASE-ELEVATION



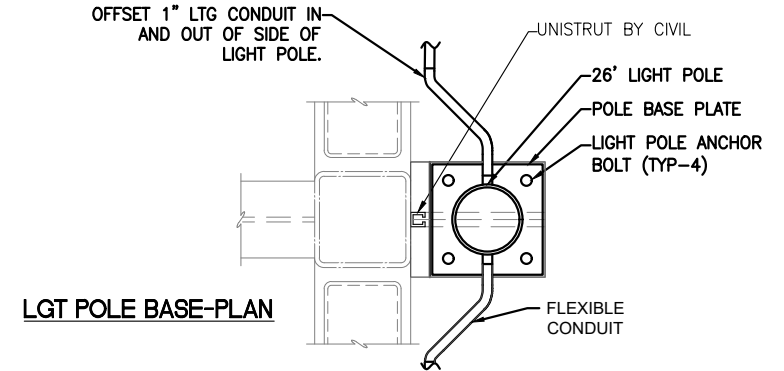
LGT POLE BASE-ELEVATION 1

LGT POLE MOUNTING DETAILS-BRIDGE (TYP)
NO SCALE

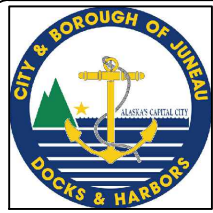
- NOTE:
1. COORDINATE WITH THE POLE MANUFACTURER TO PROVIDE 1" CONDUIT NIPPLES AND HANDHOLES AT THE BASE OF THE LIGHT POLE.



LGT POLE BASE-ELEVATION 2



LGT POLE BASE-PLAN



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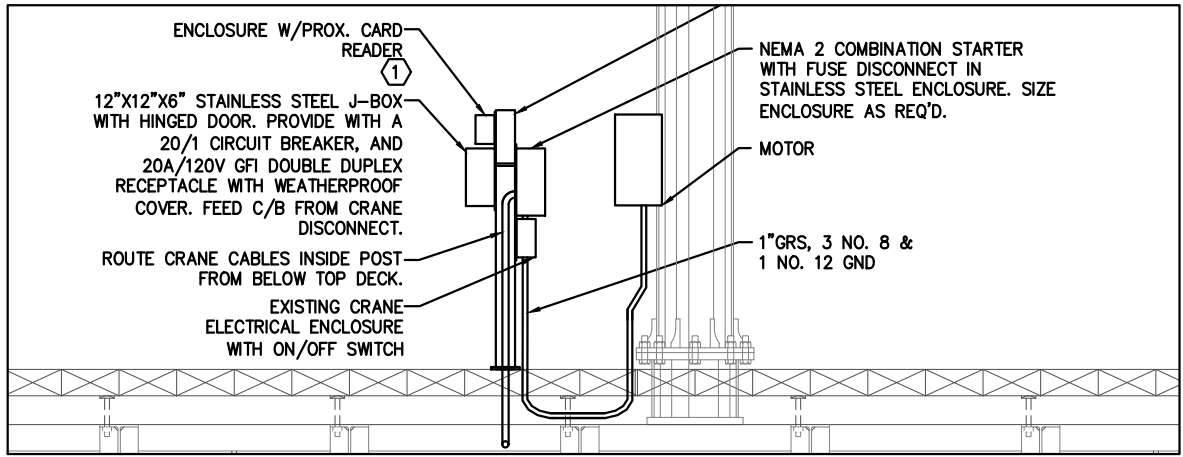
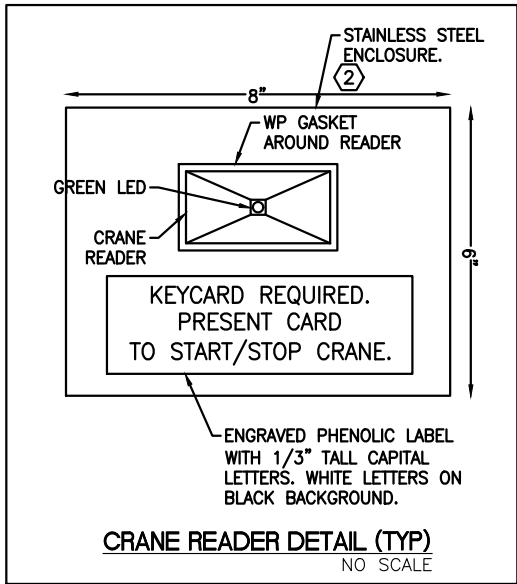
**CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022**

SHEET TITLE:
LIGHT POLE DETAIL

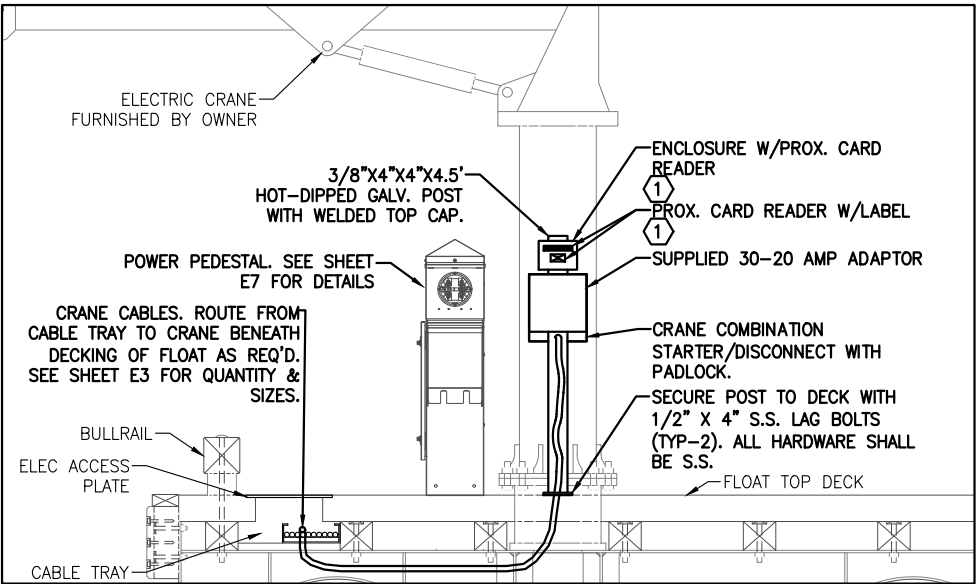
PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E10

y:\118 PN&D\90 aurora harbor dive down float\working drawings\CRANE DISCONNECT ELEVATIONS.dwg - Jodi - 5/11/2026



A CRANE DISCONNECT ELEVATION
NO SCALE

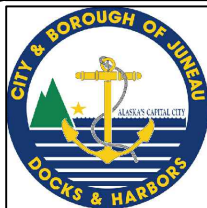


B CRANE DISCONNECT ELEVATION
NO SCALE

SHEET NOTES:

- 1 PROVIDE A PROXIMITY CARD READER TO CONTROL ACCESS TO THE CRANES, ONE FOR EACH CRANE. PYRAMID P-300 WITH GREEN LED. MOUNT READER IN A STAINLESS STEEL ENCLOSURE AT THE TOP OF THE CRANE DISCONNECT POST AS SHOWN. PROVIDE TERMINAL BLOCK INSIDE ENCLOSURE AND SPLICE INCOMING READER CABLES ON TERMINALS. PROVIDE LABEL PER DETAIL, THIS SHEET.
- 2 NEMA 4X S.S. ENCLOSURE WITH HINGED DOOR. MOUNT TERMINAL STRIP IN ENCLOSURE. LAND ALL CONDUCTORS ON THE TERMINAL STRIP THAT FEED THE CRANE. SIZE THE ENCLOSURE AS NECESSARY TO PROVIDE ADEQUATE MOUNTING SPACE AND CONDUCTOR ROUTING SPACE PER UL AND MANUFACTURER REQUIREMENTS. THE ENCLOSURE SHALL BE A UL 508 LISTED ASSEMBLY.
3. COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED TO INSTALL CABLES BELOW DECKING. MODIFY ROUTING FROM WHAT IS SHOWN AS REQUIRED TO COMPLETE THE INSTALLATION.

THIS SHEET IS FROM AUKE BAY LOADING FACILITY (ABLF), IT NEEDS TO BE UPDATED FOR THIS PROJECT.



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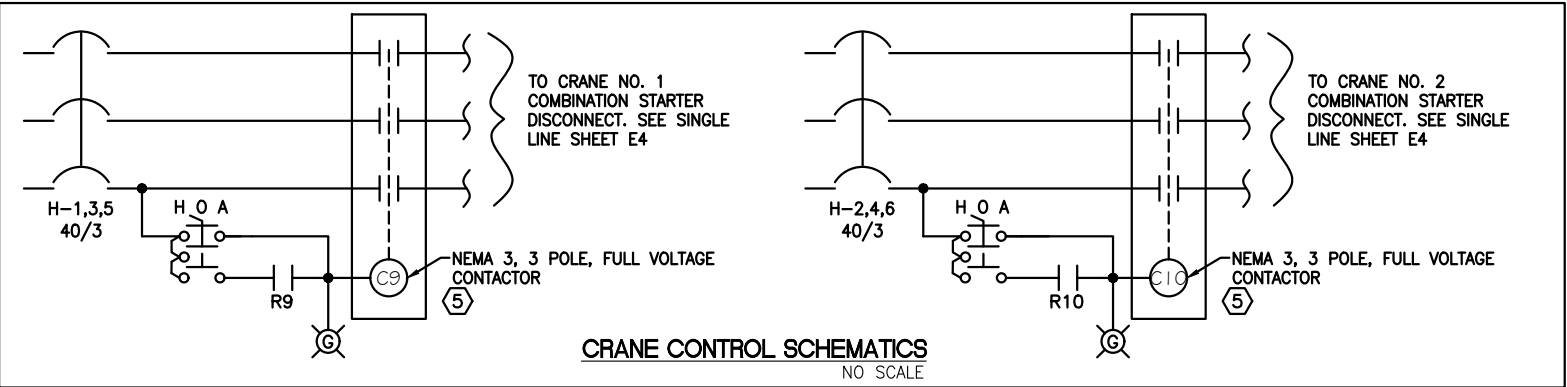
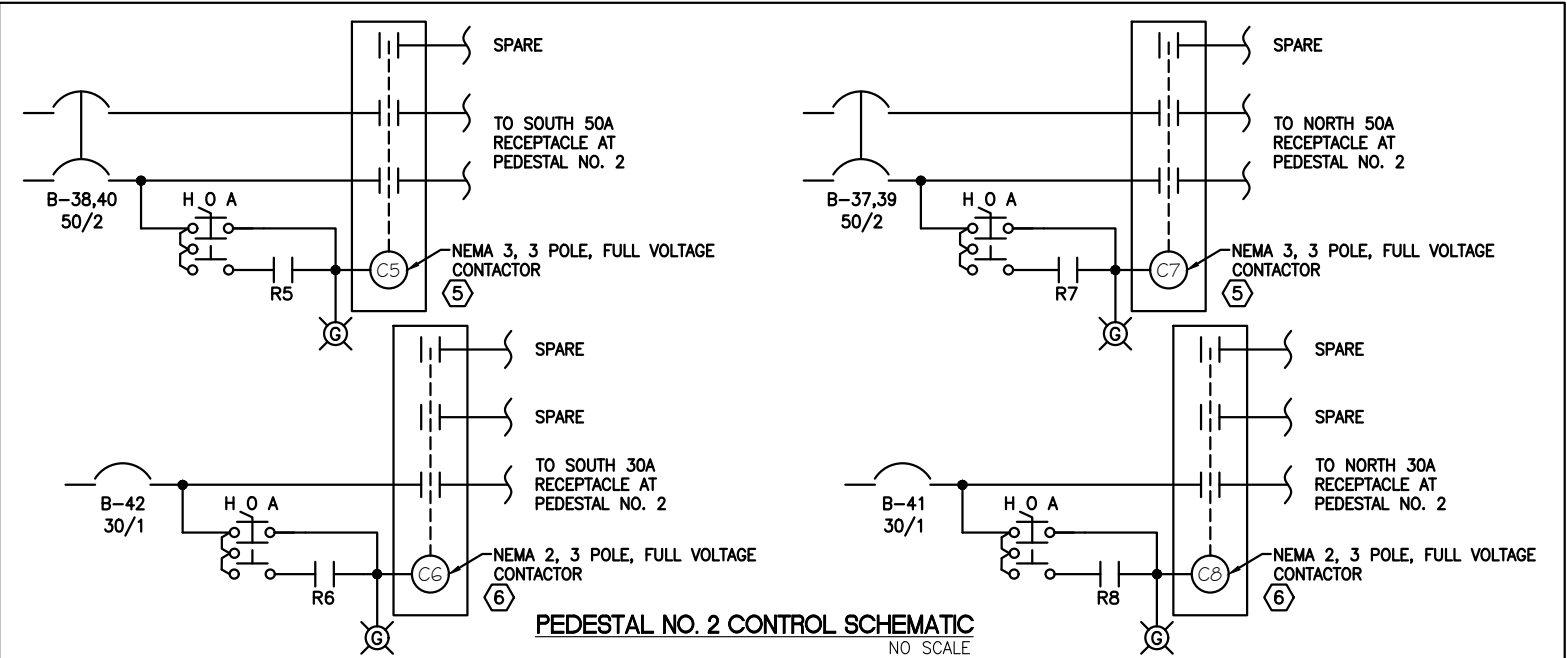
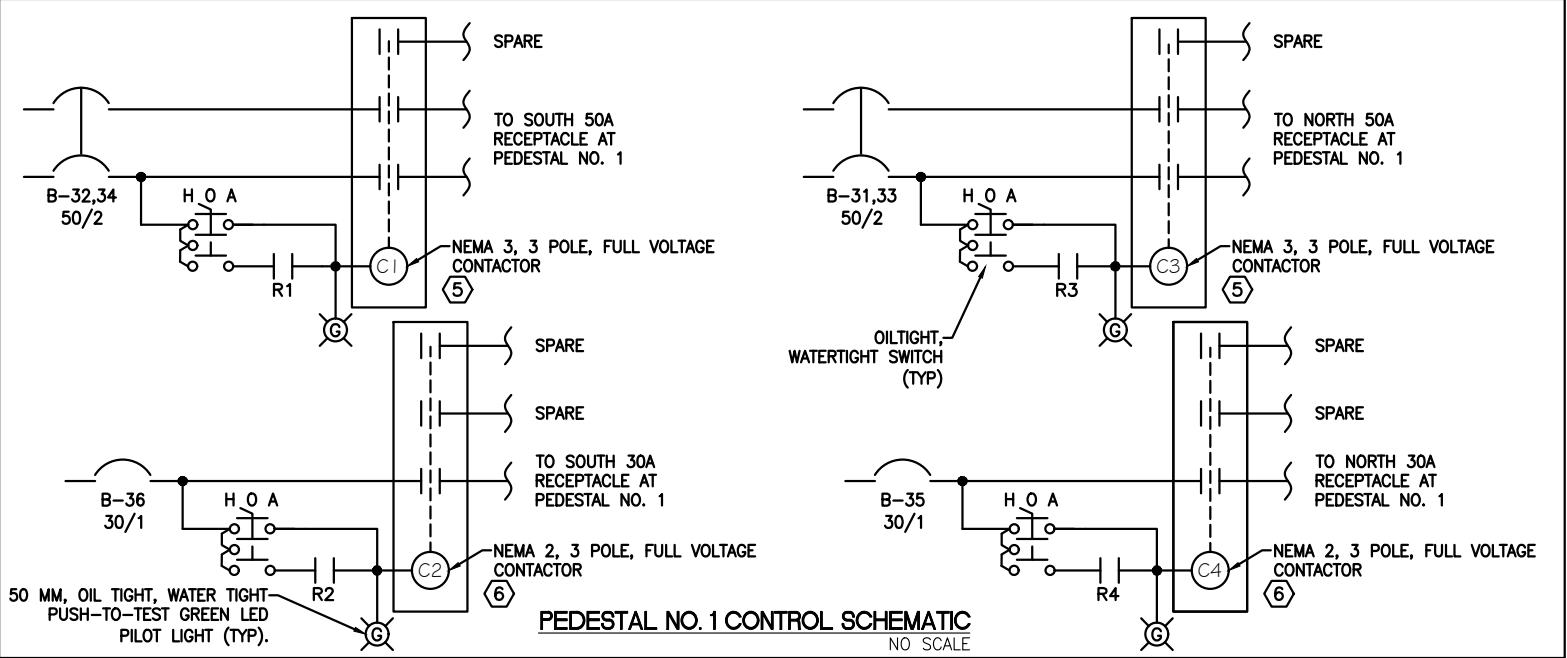
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SHEET TITLE:
CRANE DISCONNECT ELEVATIONS

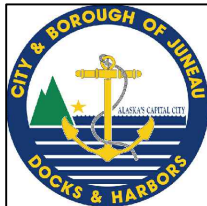
PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E11

y:\118 PN&D\90 aurora harbor dive down float\working drawings\FLOAT READER CONTROL PANEL ELEVATIONS & WIRING.dwg - Emilee - 5/11/2026



- SHEET NOTES:
- SEE SHEET EXX FOR EQUIPMENT LAYOUT & ADDITIONAL CIRCUITING INFORMATION.
 - UNLESS SPECIFICALLY OTHERWISE NOTED, ALL OTHER EQUIPMENT SHOWN ON THIS SHEET TO BE PROVIDED BY CONTRACTOR.
 - LABEL ALL CIRCUIT BREAKERS POWERING CONTACTORS AS TO FUNCTION AND POSITION. LABEL EACH CONTACTOR PER ITS FUNCTION, I.E. "PED #1 - NORTH 30A REC". LABEL THE HOA POSITIONS "ON-OFF-AUTO".
 - SEE SHEET E3 FOR FLOAT EQUIPMENT LOCATIONS AND ADDITIONAL CIRCUITING INFORMATION. SEE SHEET E8 FOR FLOAT SHED FLOOR PLAN AND INTERIOR WALL ELEVATION.
- 5 NEMA 3, 3 POLE, FULL VOLTAGE CONTACTOR WITH (1) N.O. AUX CONTACT. SQUARE-D 8502 SERIES OR EQUAL.
- 6 NEMA 2, 3 POLE, FULL VOLTAGE CONTACTOR WITH (1) N.O. AUX CONTACT. SQUARE-D 8502 SERIES OR EQUAL.
- MOUNT RELAYS, SWITCHES, LIGHTS, AND CONTACTORS IN ENCLOSURE. SEE RELAY CONTROL CABINET ELEVATIONS, SHEET EXX.



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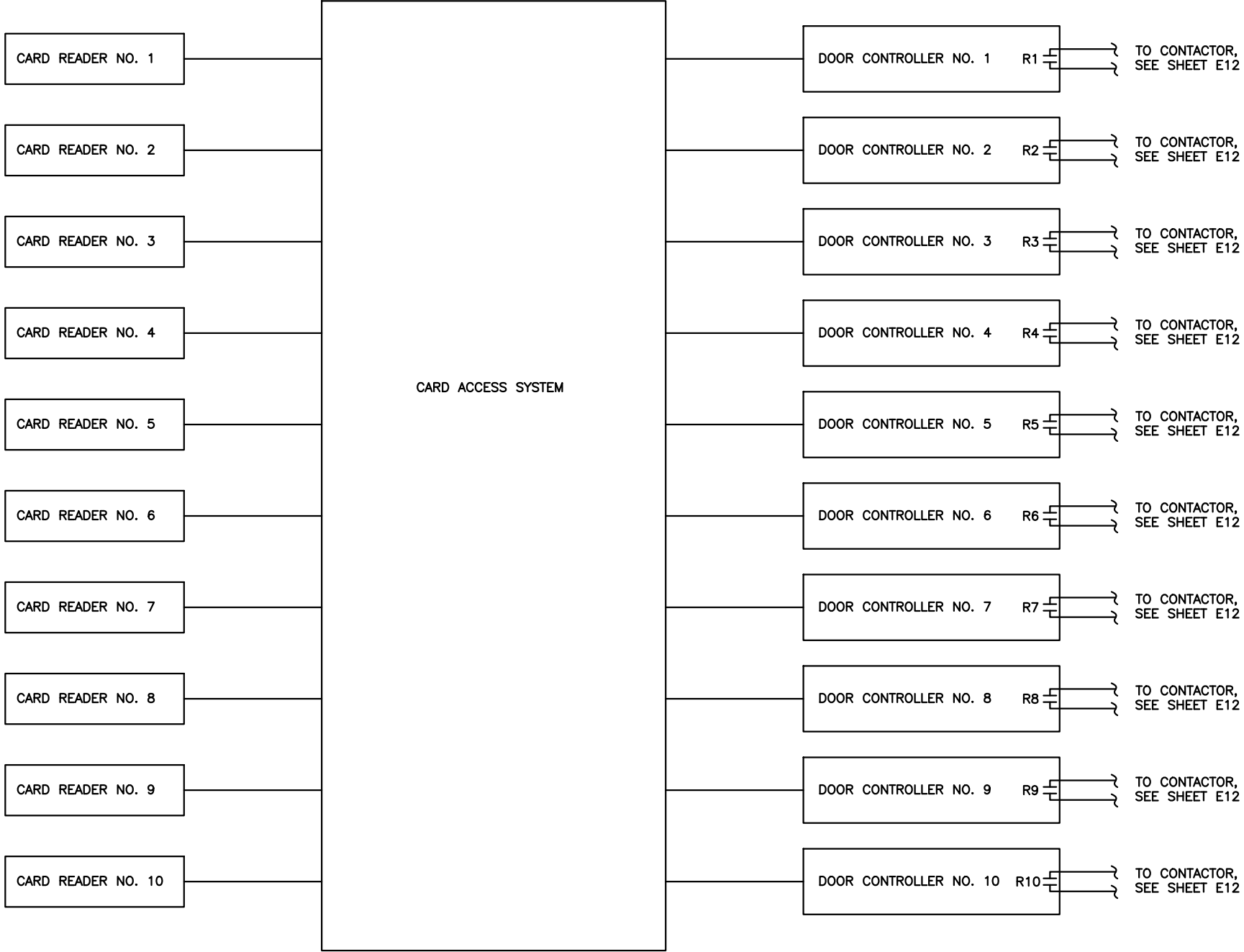
CITY & BOROUGH OF JUNEAU, ALASKA
AURORA HARBOR DRIVE DOWN FLOAT
CONTRACT NO. DH26-022

SHEET TITLE:
FLOAT READER CONTROL SCHEMATIC

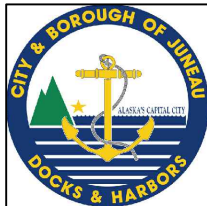
PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E12

y:\118 PN&D\90 aurora harbor dive down float\working drawings\FLOAT READER CONTROL SCHEMATICS.dwg -- Jodi -- 5/11/2026



1 CARD ACCESS SYSTEM SCHEMATIC
NO SCALE



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CONTRACT NO. DH26-022

SHEET TITLE:
CARD ACCESS SYSTEM SCHEMATIC

PND PROJECT #: 252065 C.A.N. NO.: AECL1010

E13