

SECTION 00030 – NOTICE INVITING BIDS

MUNICIPALITY OF SKAGWAY SKAGWAY SMALL BOAT HARBOR LAUNCH RAMP EXTENSION

INVITATION TO BID

Notice is hereby given that the Municipality of Skagway, Alaska will receive sealed bids for the construction of the Skagway Small Boat Harbor Launch Ramp Extension project. The project generally consists of the following Work: 30-foot extension of an existing timber boarding float and two precast concrete boat launch ramp lanes, new steel pipe pile installation, excavation and disposal, armor rock slope protection and other miscellaneous improvements. The Engineer's Estimate for all work is between \$400,000 and \$500,000.

Sealed bids will be received at the Municipality of Skagway, P.O. Box 415, Skagway, Alaska 99840, physically located at 700 Spring Street, Skagway, Alaska until **2:00 p.m. prevailing time on Tuesday, June 30, 2022**. The Bids will be publicly opened at 2:00 p.m. and read aloud in the Assembly Chambers. Clearly mark on the outside of the envelope **"Sealed bids for Skagway Small Boat Harbor Boat Launch Extension, Opening Date June 14, 2022"**. **Faxed and e-mailed bids will not be accepted.** Proposals may not be withdrawn for thirty days following date of opening.

The Contract Documents, including one set of reduced scale drawings, may be obtained at the Skagway Municipal Offices, 700 Spring Street, Skagway, Alaska 99840 (phone: 907-983-2297) or a.lawson@skagway.org. The Municipality of Skagway shall not be responsible for any costs incurred in the preparation of bids. The Municipality reserves the right to reject any or all bids.

Bids shall include all labor, equipment, transportation, materials and mobilization to and from the site to complete the specified Work. Each bid shall be accompanied by a bid bond, cashier's check or certified check made payable to the Municipality of Skagway in the amount of five percent of the total bid price. Bidders are expected to be familiar with the potential extreme and challenging weather conditions in Skagway, Alaska and the Municipality will assume all bidders have considered weather in preparing their bids. Extraordinary weather delays may be considered and addressed through contract modification in the sole discretion of the Municipality. Liquidated damages shall be a part of the final contract. Bidders are encouraged to familiarize themselves with this project through contact with the Borough Manager and by visiting the site of the project.

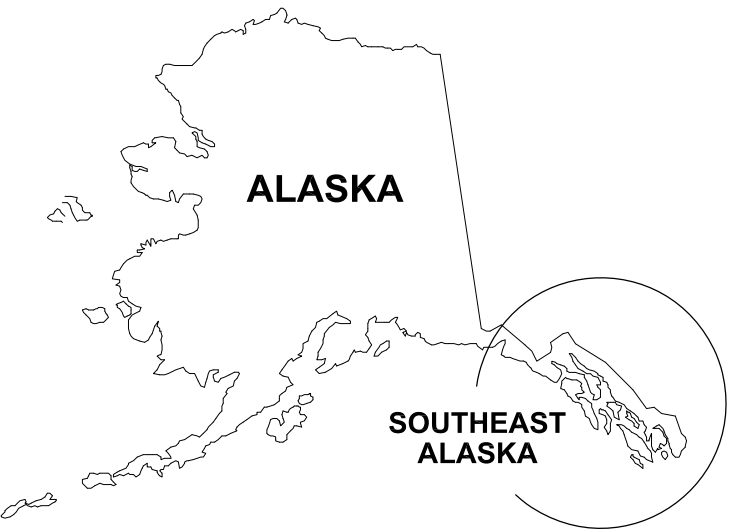
Alaska Labor Standards, reporting and prevailing wage rate determination is made part of this bid package. If this project is over \$25,000, a notice of award will be sent to the Alaska Department of Labor - Wage and Hour Section. The State will require that certified payroll forms are completed and the State has the right to randomly audit the successful bidders company to ensure Davis Bacon Wages are being paid for this project.

Prospective bidders are encouraged to attend a **Pre-Bid Conference that will be held in Skagway on June 21, 2022 beginning at 10:00 AM at the Assembly Chambers**. Prospective bidders may also participate in the Pre-Bid Conference by teleconference by dialing **(888)-204-5987**. When prompted enter **PIN: 5085533#**. All technical questions or requests must be written and submitted electronically to contracts@skagway.org no later than 4:00 p.m. on June 23, 2022.

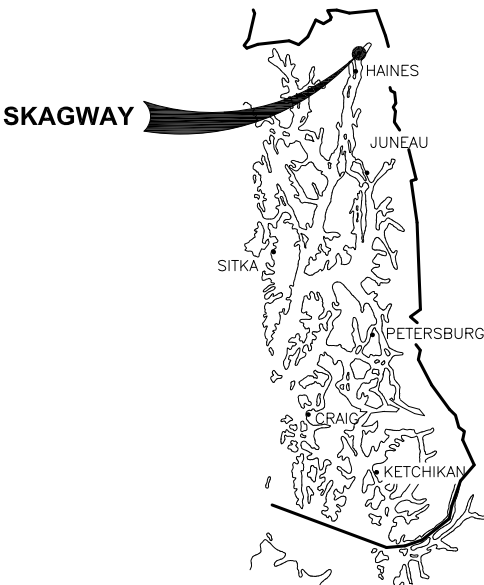
The Municipality of Skagway reserves the right to reject any or all bids, to waive any informality in a bid, and to make award to the lowest responsive, responsible bidder as it may best serve the interest of the Borough. A bid shall be awarded to a Skagway bidder if its bid is not more than five percent higher than the lowest responsive nonresident bidder's.

Authorized by: Andrew Cremata, Mayor, Municipality of Skagway

MUNICIPALITY OF SKAGWAY
SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION

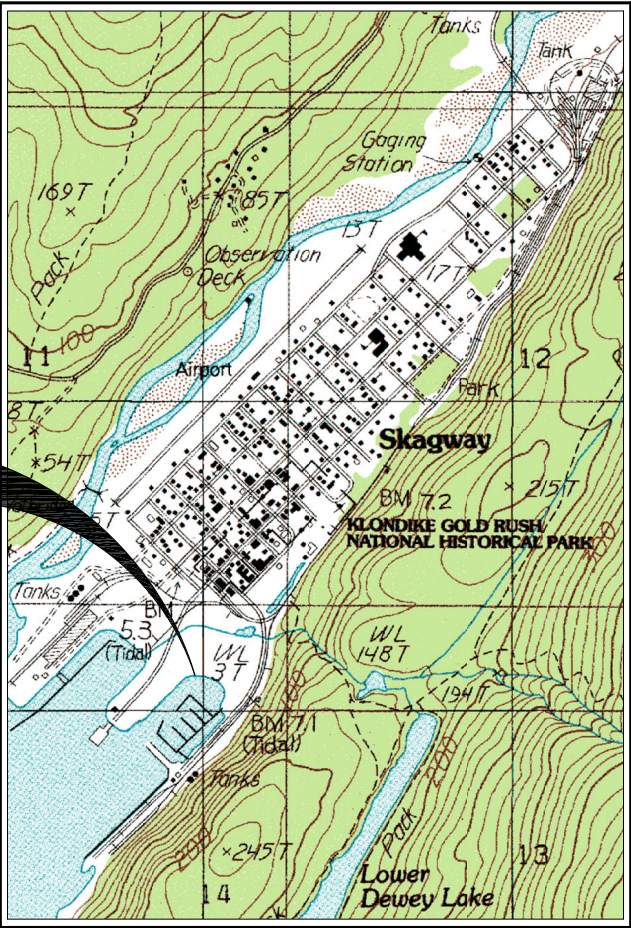


LOCATION
MAP



SOUTHEAST
ALASKA

PROJECT
LOCATION



VICINITY MAP

DRAWING INDEX

DRAWING SHEET	TITLE
1	COVER SHEET, VICINITY MAP AND DRAWING INDEX
2	LEGEND, ABBREVIATIONS, GENERAL NOTES AND SURVEY CONTROL
3	EXISTING CONDITIONS
4	GENERAL SITE PLAN
5	BOAT LAUNCH RAMP TYPICAL SECTIONS
6	BOAT LAUNCH RAMP PLANK AND SLEEPER DETAILS
7	BOARDING FLOAT DETAILS
8	BOARDING FLOAT DETAILS
9	BOARDING FLOAT DETAILS
10	BOARDING FLOAT AND PILE DETAILS
ELECTRICAL	
E1	LEGEND, DETAIL, LUMINAIRE SCHEDULE
E2	ELECTRICAL SITE PLAN

PROJECT SCHEDULE

DESCRIPTION	SCHEDULE
EARLIEST FIELD START	OCTOBER 15, 2022
SUBSTANTIAL COMPLETION	APRIL 15, 2023
FINAL COMPLETION	MAY 15, 2023

TIDAL DATA

HIGHEST OBSERVED WATER LEVEL (HAT)	26.47'
MHHW	16.73'
MHW	15.73'
MTL	8.67'
MLW	1.62'
MLLW	0.00'
LOWEST OBSERVED WATER LEVEL (LAT)	-6.45'

SOURCE: NOAA SITE ACCEPTED DATE
4/29/14 STATION NO. 9452400.

PND ENGINEERS, INC. (PND) IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. DRAWINGS ARE FOR THE USE OF THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



DESIGN: BMI
DRAWN: BMI
CHECKED: CRS
APPROVED: CRS

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

SCALE:
AS SHOWN



SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION

SHEET TITLE:
COVER SHEET, VICINITY
MAP AND DRAWING INDEX

PND PROJECT NO.: 212081 C.A.N.: AECC250

Q	QTY	QUANTITY
R	RAD	RADIUS
	RE	RIM ELEVATION
	REF	REFERENCE
	REINF	REINFORCEMENT
	REQD	REQUIRED
	RET	RETAINING
	RO	ROUGH OPENING
	ROW	RIGHT OF WAY
S		
S	SOUTH	
SCHED	SCHEDULE	
SD	STORM DRAIN	
SDI	STORM DRAIN INLET STRUCTURE	
SDO	STORM DRAIN OUTLET STRUCTURE	
SDR	STANDARD DIMENSION RATIO	
SF	SQUARE FOOT	
SHLDR	SHOULDER	
SHT	SHEET	
SI	STREET INTERSECTION	
SPEC	SPECIFICATION (S)	
SQ	SQUARE	
SSC	SANITARY SEWER CONNECTION	
SS	STAINLESS STEEL, SANITARY SEWER	
SDMH	STORM DRAIN MANHOLE	
SSMH	SANITARY SEWER MANHOLE	
STA	STATION	
STD	STANDARD	
STL	STEEL	
STRG	STRONG	
SV	SEWER VALVE	
SW	SIDEWALK	
SWR	SEWER	
SY	SQUARE YARD	
SYMM	SYMMETRICAL	
T		
T&B	TOP AND BOTTOM	
T&G	TONGUE AND GROOVE	
t	THICK	
TBC	TOP BACK OF CURB	
TBM	TEMPORARY BENCH MARK	
TD	TRENCH DRAIN	
TEL	TELEPHONE	
TEMP	TEMPERATURE, TEMPORARY	
TH	TEST HOLE	
THK	THICK	
TRANS	TRANSVERSE	
TV	TELEVISION	
TYP	TYPICAL	
U		
UBC	UNIFORM BUILDING CODE	
UE	UNDERGROUND ELECTRIC	
UMC	UNIFORM MECHANICAL CODE	
UHMW	ULTRA HIGH MOLECULAR WEIGHT	
UON	UNLESS OTHERWISE NOTED	
UPC	UNIFORM PLUMBING CODE	
V		
VB	VALVE BOX	
VERT	VERTICAL	
W		
W	WEST	
W/	WITH	
WD	WOOD	
WELDMT	WELDMENT	
WL	WATERLINE	
WV	WATER VALVE	
W/O	WITHOUT	
X		
XFMR	TRANSFORMER	
<PT	ANGLE POINT	
Q		
H&T	HUB & TACK	
HD	HEAVY DUTY	
HDG	HOT-DIPPED GALVANIZED	
HDPE	HIGH DENSITY POLYETHYLENE	
HORIZ	HORIZONTAL	
HSE	HOUSE	
HT	HEIGHT	
HWY.	HIGHWAY	
I		
ID	INSIDE DIAMETER	
IE	INVERT ELEVATION	
IN	INCH	
IP	IRON PIPE	
INCL	INCLUDE (D) (ING)	
INSUL	INSULATE (D) (ION)	
INV	INVERT	
J		
JB	JUNCTION BOX	
K		
K	RATE OF CURVATURE	
L		
LBS	POUNDS	
LF	LINEAR FEET	
LL	LIVE LOAD	
LOC	LOCATION	
LONG	LONGITUDINALLY	
LS	LUMP SUM	
LVC	LENGTH OF VERTICAL CURVE	
M		
MAX	MAXIMUM	
MECH	MECHANICAL	
MFR	MANUFACTURE (R)	
MH	MANHOLE	
MI	MALLEABLE IRON	
MIN	MINIMUM	
MLLW	MEAN LOWER LOW WATER	
MSF	1000 SQUARE FEET	
MSE	MECHANICALLY STABILIZED EARTH	
MTL	MATERIAL (S)	
N		
N	NORTH	
NFS	NON FROST SUSCEPTIBLE	
NIC	NOT IN CONTRACT	
NO	NUMBER	
NTS	NOT TO SCALE	
O		
OBD	OVERBURDEN	
OC	ON CENTER	
OD	OUTSIDE DIAMETER	
OG	ORIGINAL GROUND	
OHE	OVERHEAD ELECTRICAL	
O.O.	OUTSIDE TO OUTSIDE	
OWS	OIL-WATER SEPARATOR	
OPP	OPPOSITE	
P		
P	PIPE	
PC	POINT OF CURVATURE, PIECE	
PCC	PRECAST CONCRETE	
PED	PEDESTAL	
PER	PERIMETER	
PERF	PERFORATE (D)	
PI	POINT OF INTERSECTION	
PLWD	PLYWOOD	
PL	PROPERTY LINE, PLATE	
PROJ	PROJECT	
PRV	PRESSURE REDUCING VALVE	
PSI	POUND PER SQUARE INCH	
PT	POINT, PRESSURE TREATED, POINT OF TANGENCY	
	POINT OF VERTICAL CURVATURE,	
	POLY VINYL CHLORIDE	
	POINT OF VERTICAL INTERSECTION	
AT		
ASBESTOS CEMENT PIPE		
ASPHALT CONCRETE PAVEMENT		
ADJUSTABLE		
ALUMINUM		
ASSOCIATED PILE AND FITTING CORP.		
APPROXIMATE		
AIR RELEASE VALVE		
B		
BUTTERFLY VALVE		
BUILDING		
BEGINNING OF PROJECT		
BOTTOM		
BETWEEN		
C		
CURB & GUTTER		
CATCH BASIN		
CAST IRON		
CAST-IN-PLACE		
CONTROL JOINT		
CENTER LINE		
CLEAR		
CORRUGATED METAL PIPE		
CLEANOUT		
CORPS OF ENGINEERS		
CONCRETE		
COMPLETE PENETRATION		
CORRUGATED POLYETHYLENE PIPE		
CORNER		
COUNTERSINK		
CENTER		
CUBIC YARD		
D		
DIAMETER		
DOUBLE		
DEAD LOAD		
DUCTILE IRON PIPE		
DIMENSION		
DOWN		
DETAIL		

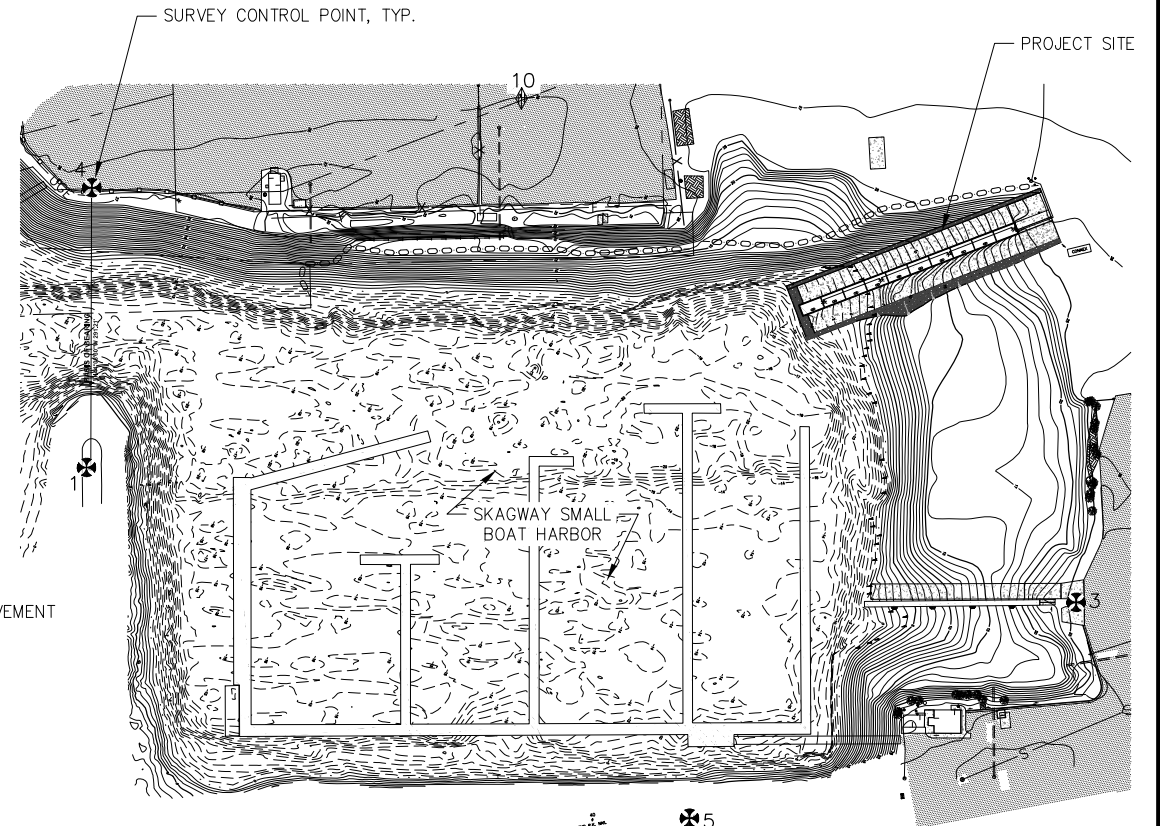
1. CONTRACTOR SHALL INSTALL TEMPORARY DEVICES CONSISTING OF BUT NOT LIMITED TO STRAW BALES, FILTER FABRIC FENCES, SETTLING POND, ETC., TO PROHIBIT SILT LADEN DEWATERING EFFLUENT AND OTHER CONSTRUCTION RUNOFF FROM ENTERING ADJACENT STREAMS OR WATER BODIES. CONTRACTOR IS RESPONSIBLE FOR THE QUALITY OF THE DEWATERING EFFLUENT AND OTHER CONSTRUCTION RUNOFF THAT ENTERS ADJACENT STREAMS OR WATER BODIES AND IS, THEREFORE, RESPONSIBLE FOR VIOLATIONS AND PENALTIES FROM HIS OPERATIONS.
2. PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
3. EXISTING UTILITIES & DRAIN PIPE LOCATIONS ARE DERIVED FROM FIELD LOCATES. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. CALL FOR ALL UTILITY LOCATES BEFORE YOU DIG.
4. GRADING AND ALIGNMENT OF STRUCTURES & FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES.
5. CONTAIN ALL FLOATING MATERIALS DURING CONSTRUCTION. ALL MATERIAL COLLECTED SHALL BE DISPOSED OF ON LAND IN SUCH A MANNER THAT IT CANNOT ENTER INTO THE WATERWAY OR CAUSE WATER QUALITY DEGRADATION OF WATERS OF THE STATE OR WATERS OF THE US.

LEGEND

SECTION OR DETAIL CALLOUT

D
2.00

LOCATION OF DETAIL OR REFERENCE DRAWING



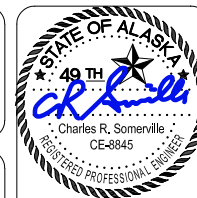
SURVEY CONTROL				
PT #	NORTHING	EASTING	ELEVATION	DESCRIPTOR
①	2785305.500	2377647.390	26.40	FC.O.E.BREAKWATER 1959
③	2785922.800	2378480.180	25.40	C.O.E. SH-C 2000
④	2785514.480	2377444.580	27.61	C.O.E. SH-D 2000
⑤	2785480.320	2378347.550	28.44	C.O.E. SH-E 2000
⑩	2785896.430	2377696.183	28.01	SET NAIL W/ FLASHER

[illegible]

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE: AS SHOWN

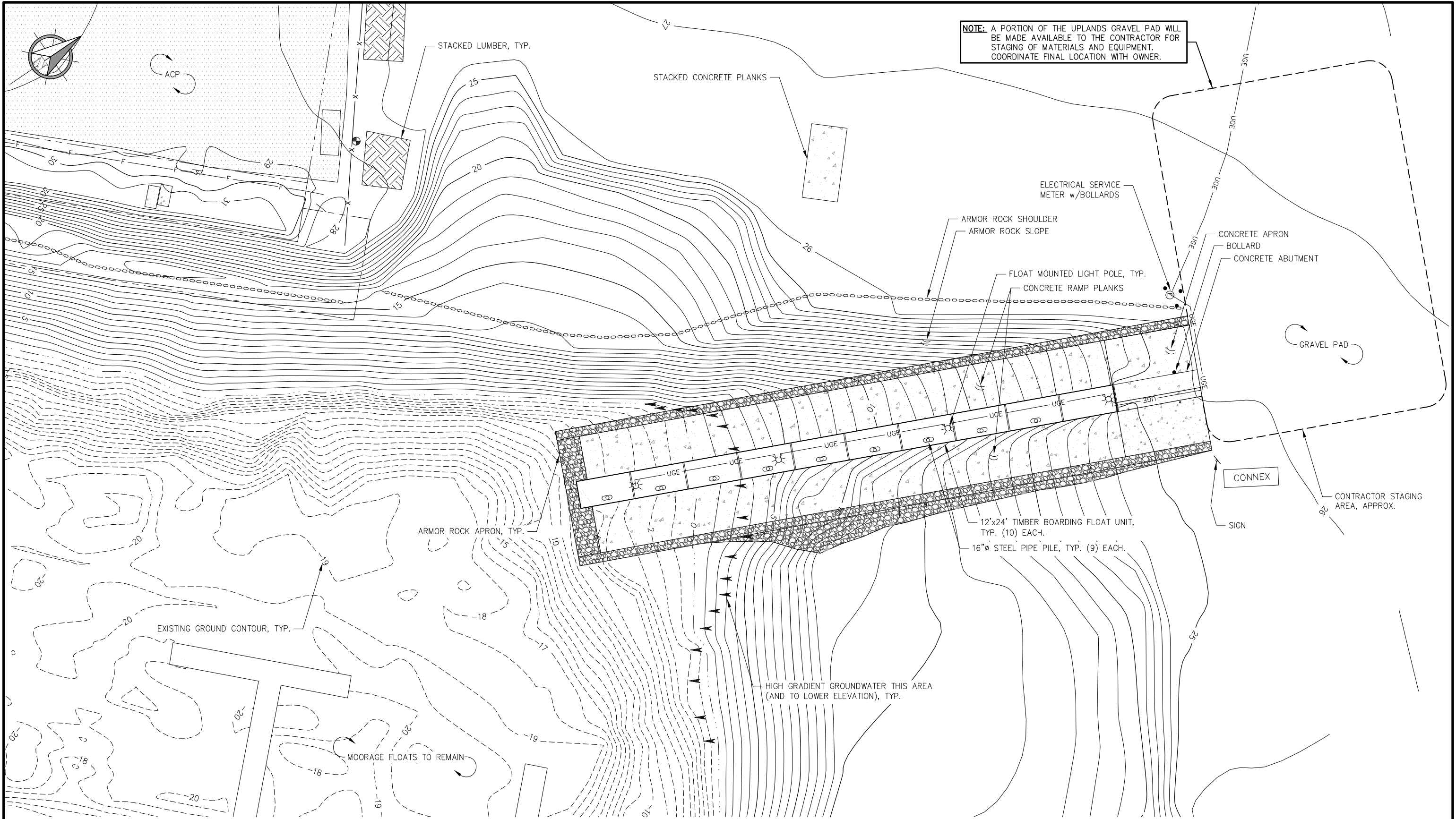


SKAGWAY SMALL BOAT HARBOR BOAT LAUNCH EXTENSION

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

PND PROJECT NO.: 212081

C.A.N.: AECC250



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

P

N

D

ENGINEERS, INC.

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE: SCALE IN FEET
0 20 40 FT.



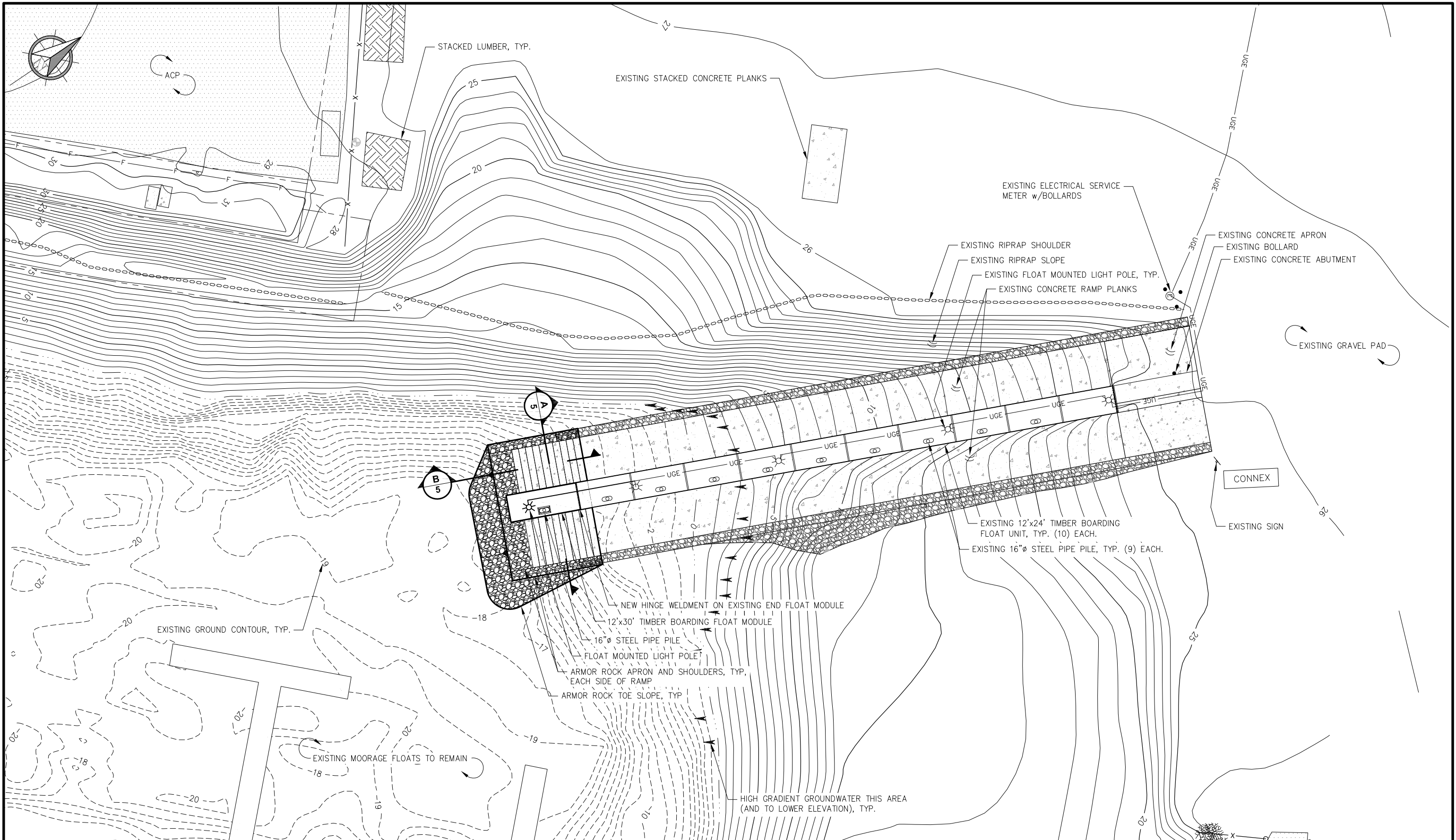
SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION

SHEET TITLE:
EXISTING CONDITIONS

PND PROJECT NO.: 212081 C.A.N.: AECC250

DATE: MAY 6, 2022

3
3 of 10



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

P

N

D

ENGINEERS, INC.

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE: SCALE IN FEET
0 20 40 FT.

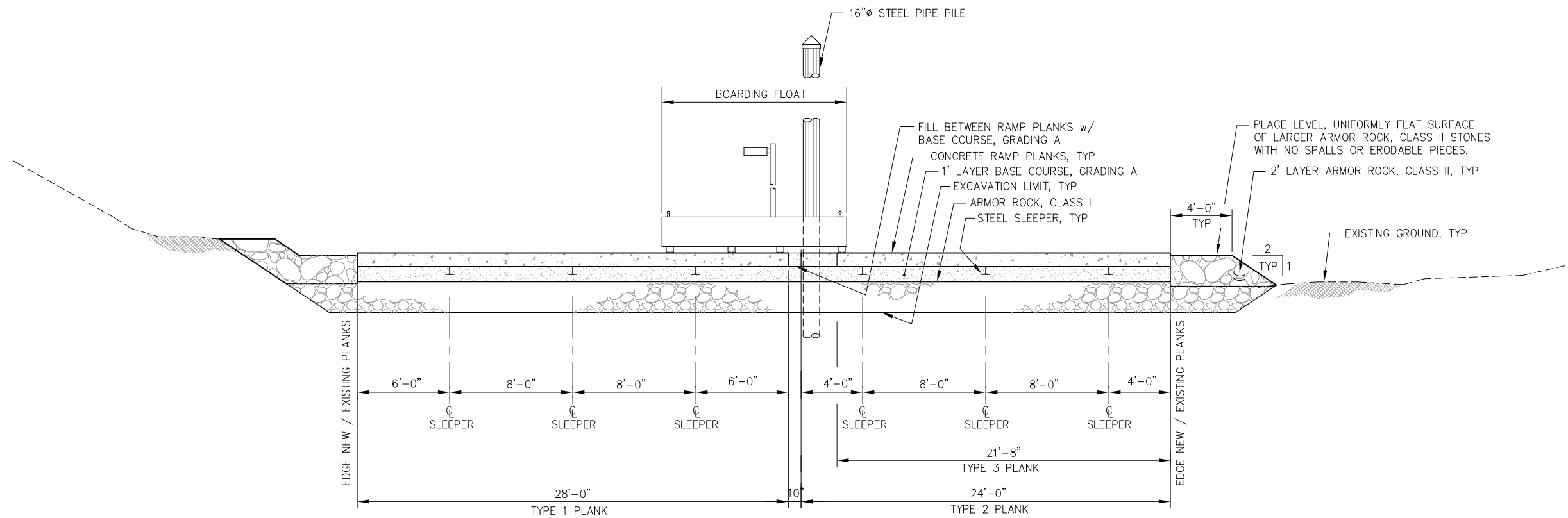


SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION

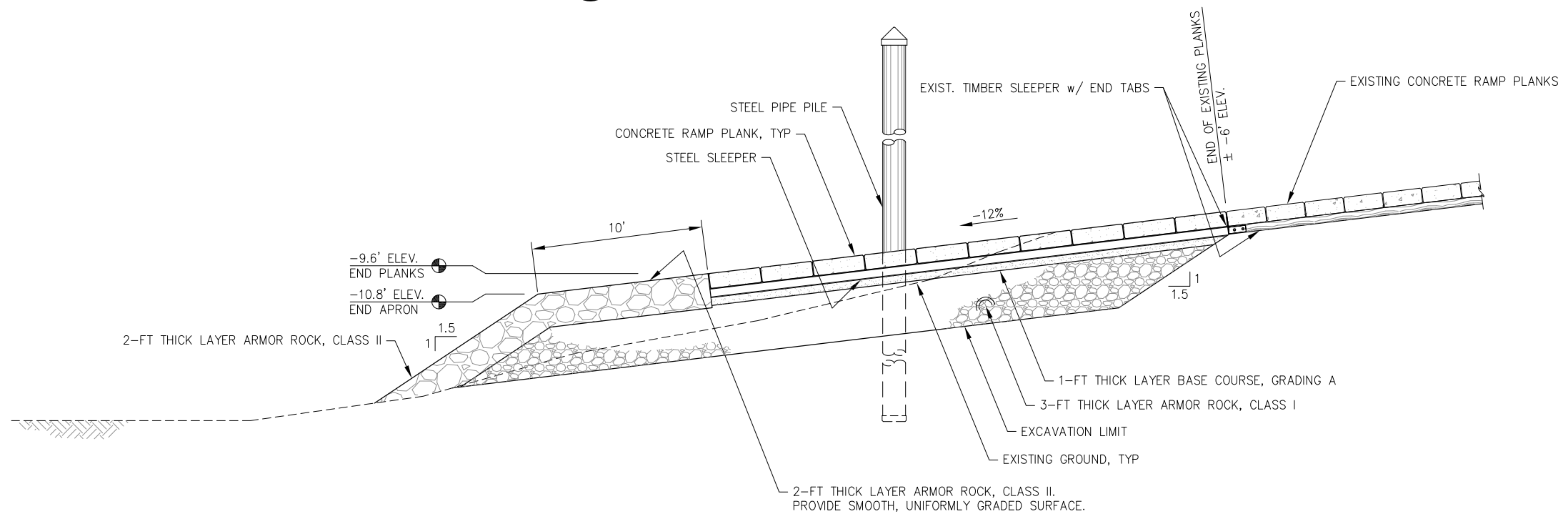
SHEET TITLE:
GENERAL SITE PLAN

PND PROJECT NO.: 212081 C.A.N.: AECC250

4
4 of 10



A
4
**TYPICAL SECTION
BOAT LAUNCH RAMP**



B
4
**TYPICAL SECTION
BOAT LAUNCH RAMP**

NOTE: BOARDING FLOAT NOT SHOWN THIS VIEW.



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

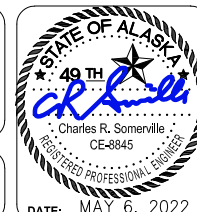


ENGINEERS, INC.

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE:
NTS



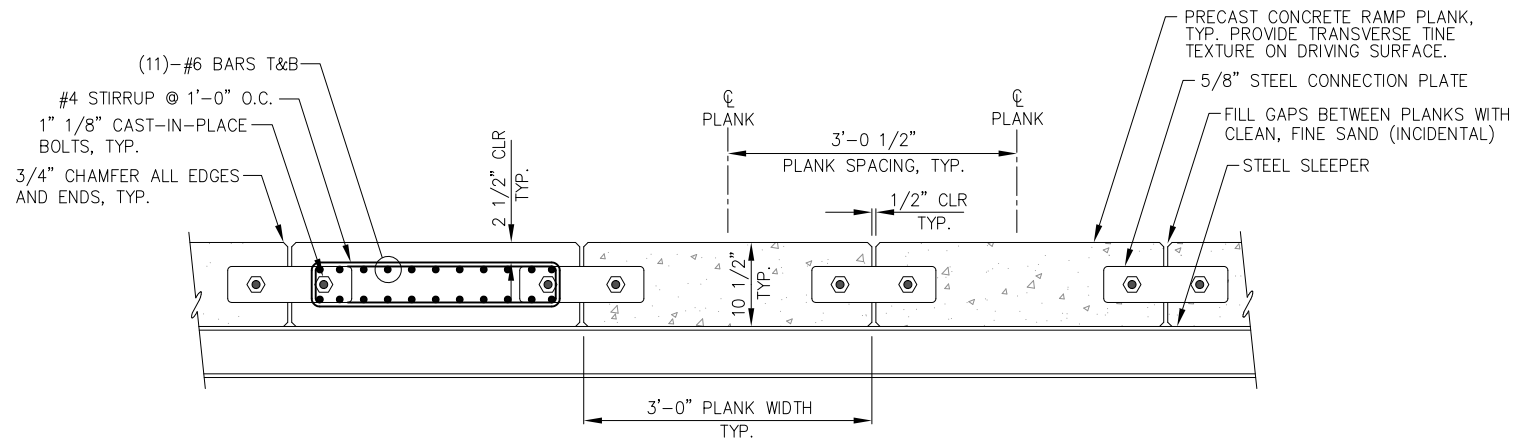
**SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION**

SHEET TITLE:
**BOAT LAUNCH RAMP
TYPICAL SECTIONS**

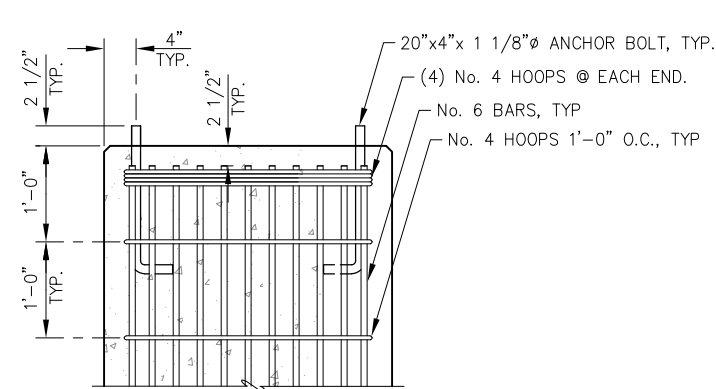
PND PROJECT NO.: 212081 C.A.N.: AECC250

5

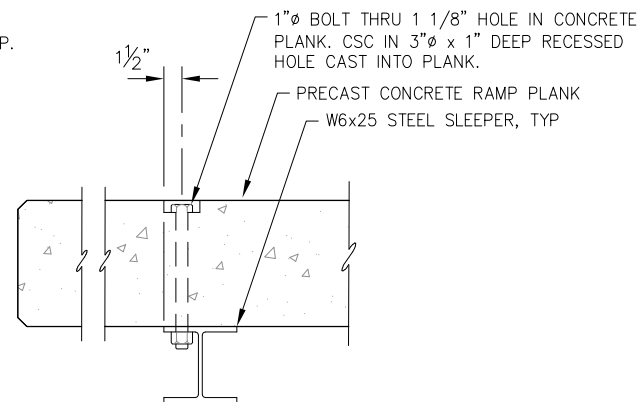
5 of 10



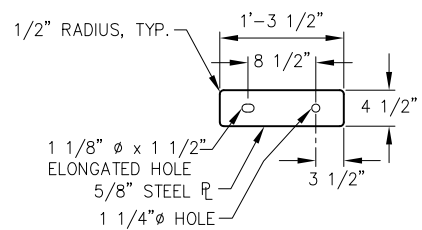
TYPICAL RAMP PLANK SECTION



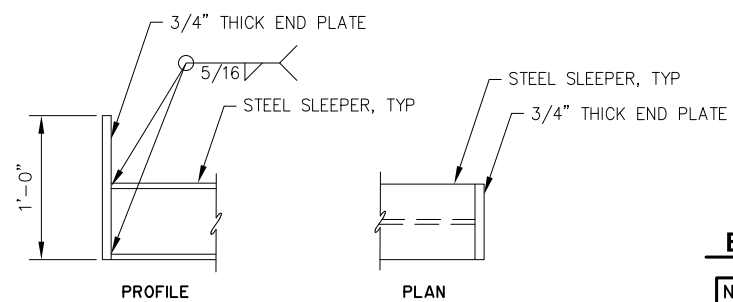
RAMP PLANK END - PLAN



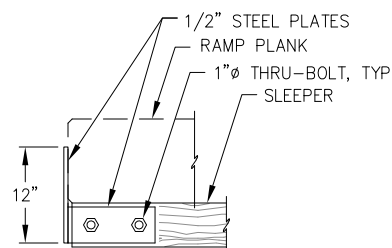
SLEEPER THRU-BOLT



RAMP PLANK CONNECTION PLATE SECTION

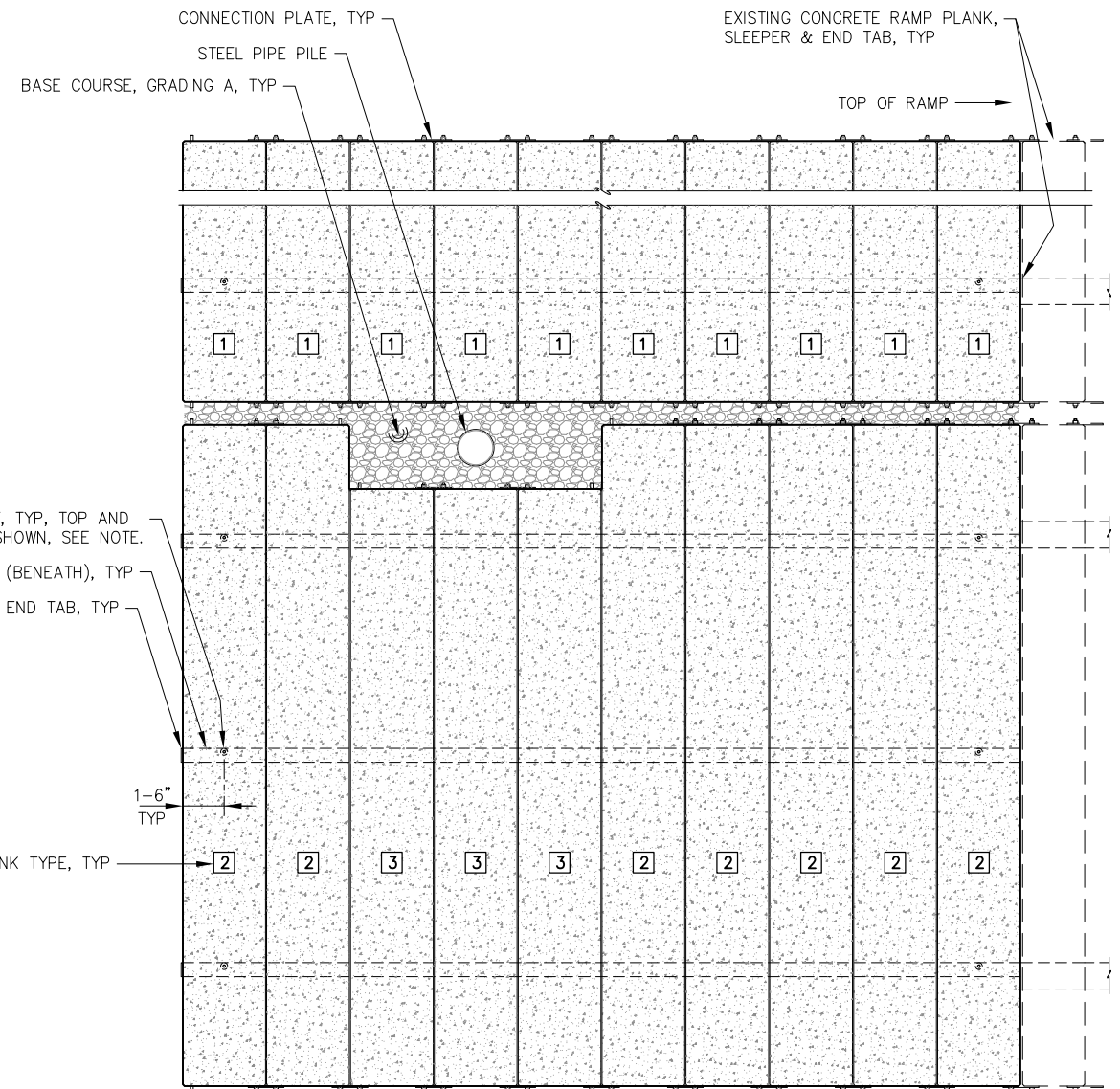


SLEEPER END TAB



EXISTING SLEEPER END TAB

NOTE: REMOVE EXISTING BOTTOM RAMP PLANK FROM EACH LANE AND REMOVE END TAB PLATES FROM EXISTING TIMBER SLEEPERS. REINSTALL EXISTING BOTTOM END PLANKS AND CONNECT TO NEW TOP PLANKS w/ NEW CONNECTION PLATE.



CONCRETE RAMP PLANKS - PLAN

RAMP PLANK SCHEDULE		
TYPE	QUANTITY	LENGTH
TYPE 1	10 TOTAL	28'-0"
TYPE 2	7 TOTAL	24'-0"
TYPE 3	3 TOTAL	21'-8"

NOTE: CONTRACTOR MAY ELECT TO PRE-ASSEMBLE TOP AND BOTTOM RAMP PLANKS ONTO STEEL SLEEPERS BY INSTALLATION OF 1" SLEEPER THRU-BOLTS AND THEN SET THIS PRE-ASSEMBLED 'FRAMEWORK' ONTO THE RAMP SURFACE CONSISTING OF COMPACTED BASE COURSE LEVEL TO GRADE AT THE BOTTOM OF THE STEEL SLEEPERS. BASE COURSE WOULD THEN BE PLACED BENEATH THE BOTTOM RAMP PLANK BY 'CHINKING' MATERIAL BENEATH IT AND THE TOP PLANK WOULD BE TEMPORARILY REMOVED TO PLACE BASE COURSE TO THE TOP OF THE SLEEPER BENEATH IT AND THEN ALONG THE REST OF THE LENGTH OF THE SLEEPERS. THE REMAINING RAMP PLANKS WOULD THEN BE INSTALLED WITH CONNECTION PLATES AS SHOWN ON THE PLANS. IF AN ALTERNATE PLACEMENT METHOD IS USED, 1" RECESSED HOLES AND THRU-BOLTS MAY NOT BE REQUIRED.



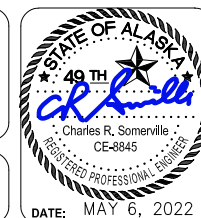
REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.



9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE: NTS

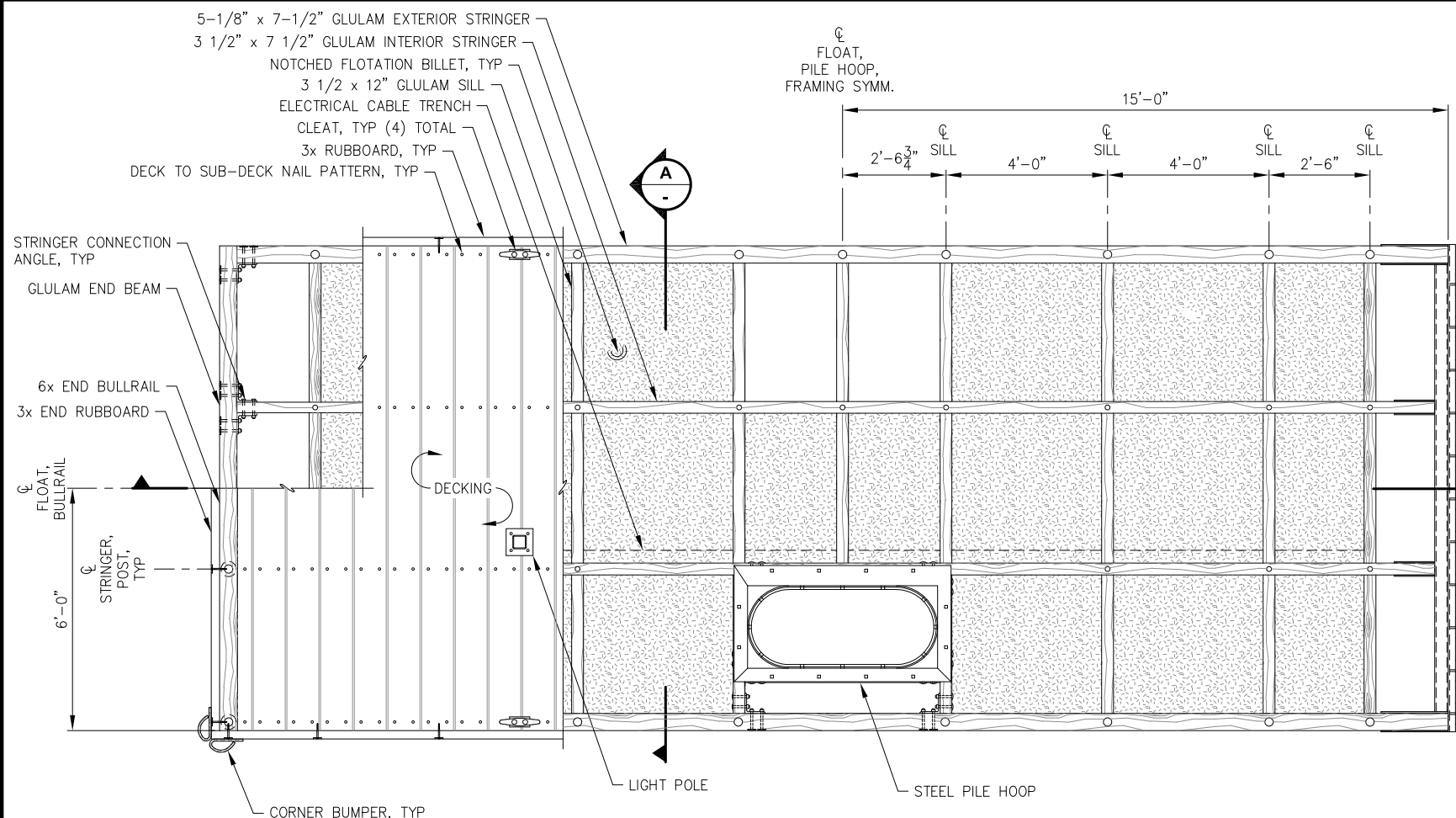


**SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION**

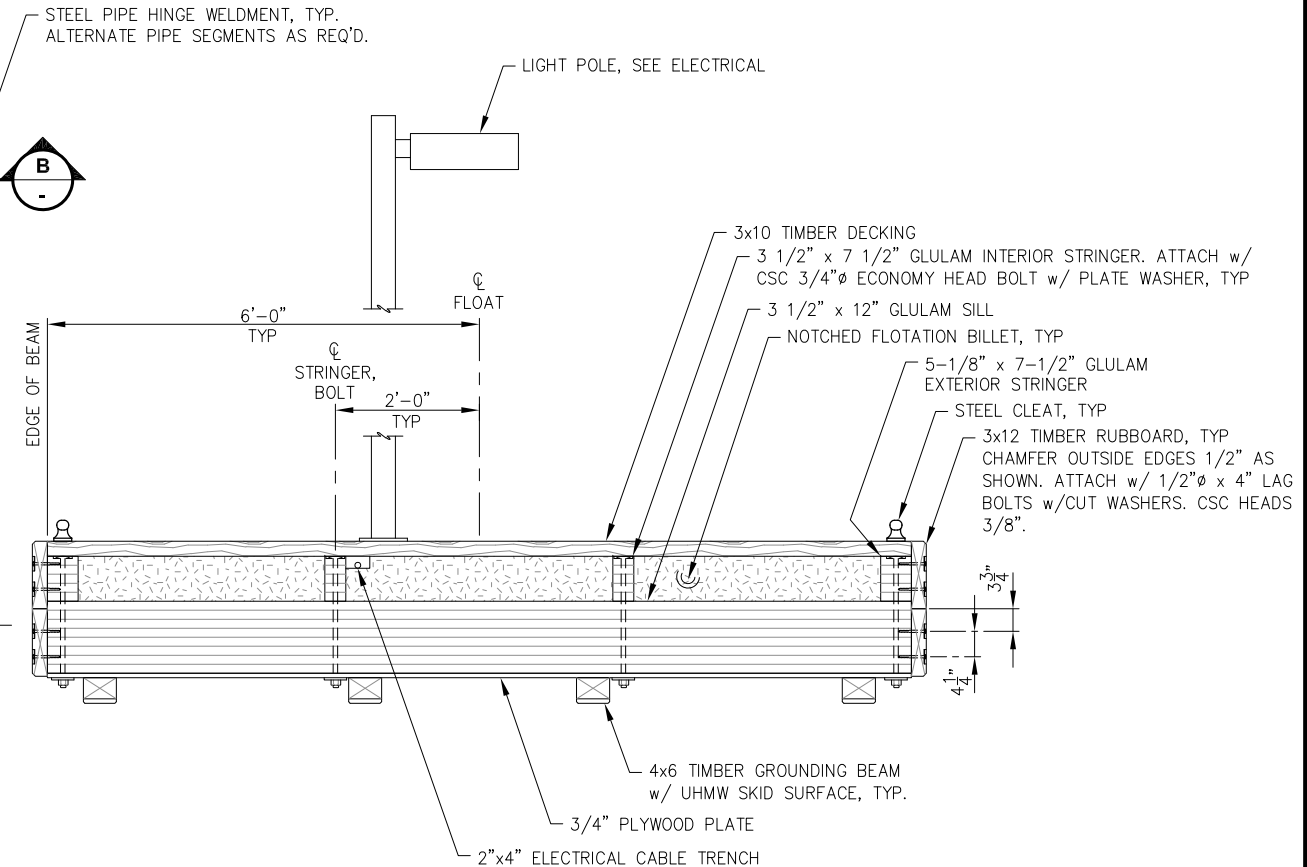
SHEET TITLE: **BOAT LAUNCH RAMP
PLANK AND SLEEPER DETAILS**

PND PROJECT NO.: 212081 C.A.N.: AECC250

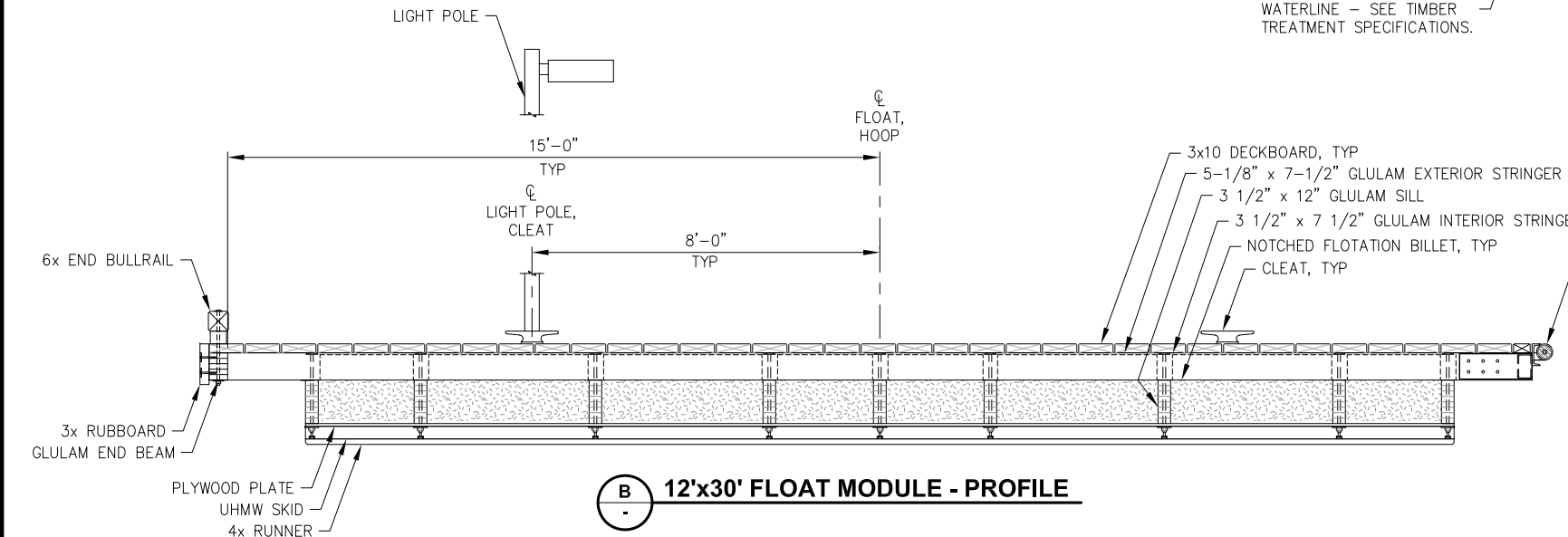
6
6 of 10



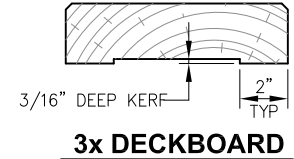
12'x30' FLOAT MODULE - PLAN



12'x30' FLOAT MODULE - SECTION



12'x30' FLOAT MODULE - PROFILE



NOTES: PREDRILL DECKING TO PREVENT SPLITTING PER AITC STANDARDS. FASTEN w/ 8 GA. 40d HDG SPIRAL SHANK NAILS AS SHOWN ON PLAN.



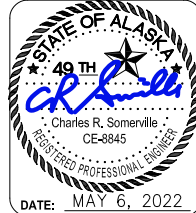
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

PND
ENGINEERS, INC.

9360 Glacier Highway Ste 100
 Juneau, Alaska 99801
 Phone: 907-586-2093
 Fax: 907-586-2099
 www.pndengineers.com

DESIGN: BMI CHECKED: CRS
 DRAWN: BMI APPROVED: CRS

SCALE: NTS



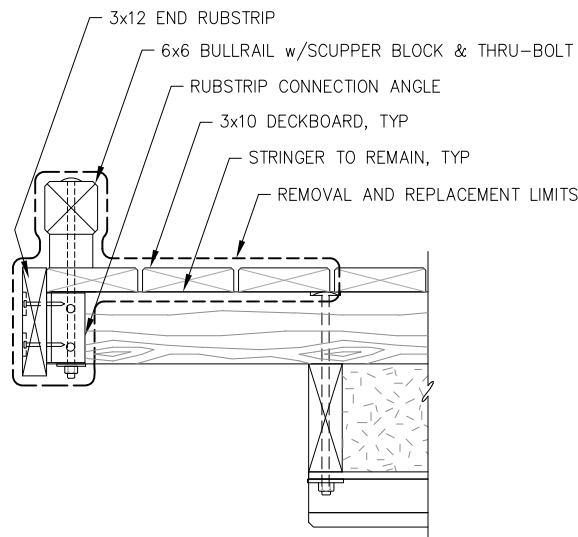
**SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION**

SHEET TITLE:
BOARDING FLOAT DETAILS

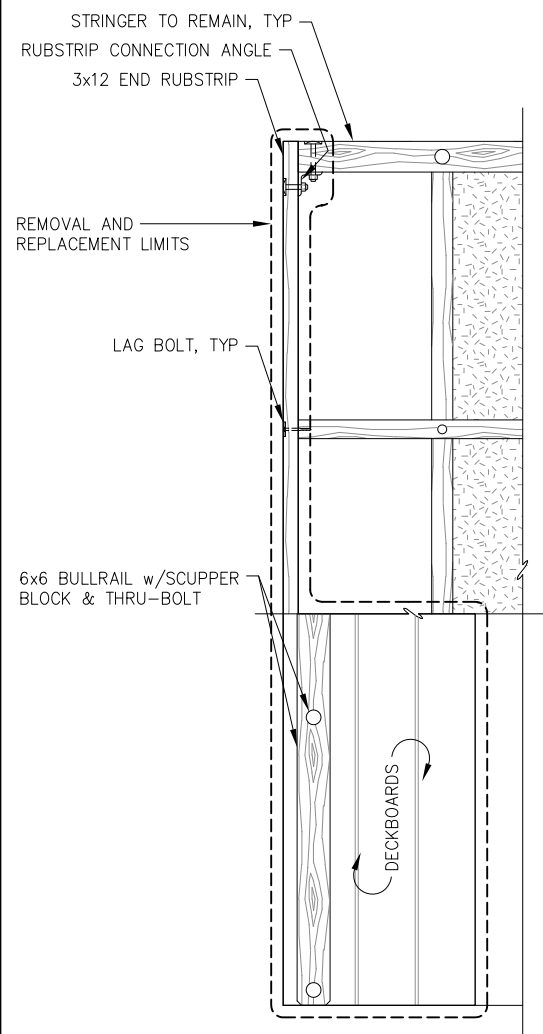
PND PROJECT NO.: 212081 C.A.N.: AECC250

DATE: MAY 6, 2022

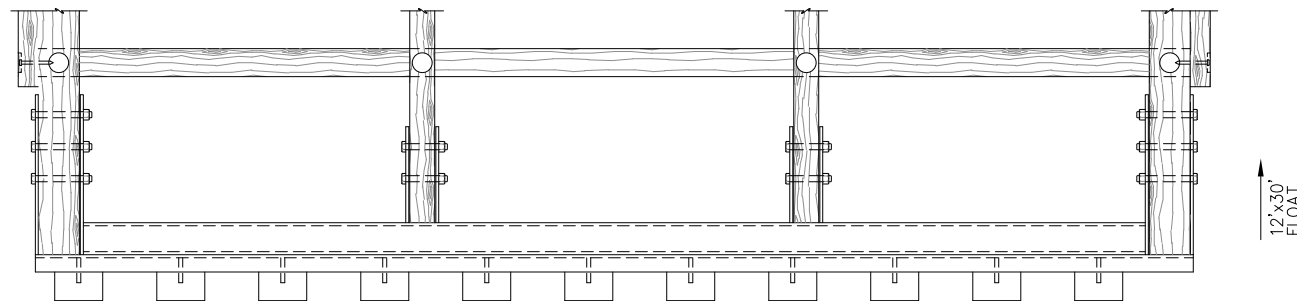
7
7 of 10



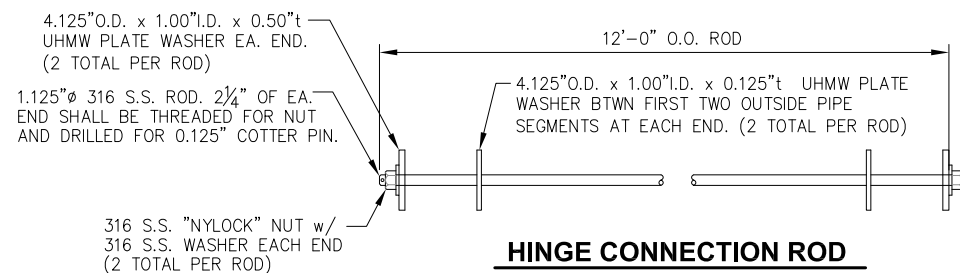
EXISTING END FLOAT MODIFICATIONS - SECTION



EXISTING END FLOAT MODIFICATIONS - PLAN



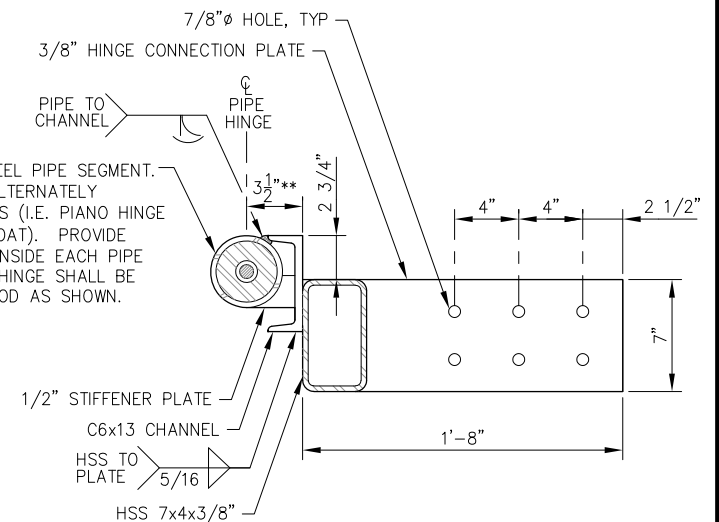
HINGE CONNECTION - PLAN



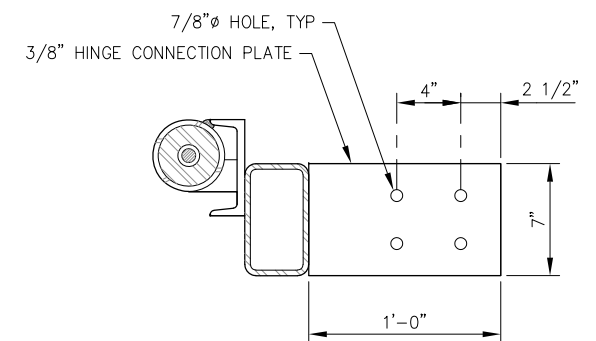
HINGE CONNECTION ROD

NOTE: FABRICATOR TO DRY-FIT HINGE ASSEMBLIES PRIOR TO APPLICATION OF COATINGS TO ENSURE HINGE MOVES FREELY AND DOES NOT BIND.
****** DIMENSION ASSUMED TO BE MINIMUM OF 3 1/2". FABRICATOR SHALL VERIFY DIMENSION REQ'D FOR TOP OF PIPE SEGMENT TO BE FLUSH WITH TOP OF ANGLE, AND WELDED AS SHOWN. ALSO, PIPE SEGMENT SHALL HAVE MINIMUM CLEARANCE BETWEEN IT AND THE ANGLE OF 3/8" SUCH THAT WHEN ASSEMBLED, HINGE PIPE SEGMENTS DO NOT RUB AGAINST EDGE OF ANGLE TOP LEG. (I.E. AVOID NON-SKID COATING BEING WORE OFF AFTER INSTALLATION.)

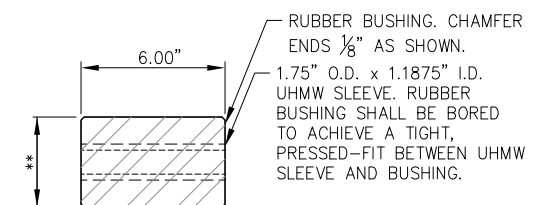
NOTE: REMOVE EXISTING BULLRAIL, SCUPPER BLOCKS, DECKBOARDS, END RUBSTRIP AND ATTACHMENT HARDWARE AS SHOWN. INSTALL TREATED DOWELS THRU EMPTY BOLT HOLES IN STRINGERS TO REMAIN. FIELD DRILL AND TREAT HOLES IN STRINGERS FOR NEW HINGE WELDMENT BOLTS AND INSTALL NEW HINGE WELDMENT. PROVIDE AND INSTALL (4) NEW 3x10 DECKBOARDS AS SHOWN.



A HINGE CONNECTION - SECTION AT EXTERIOR STRINGER



B HINGE CONNECTION - SECTION AT INTERIOR STRINGER
 DETAILS NOT SHOWN SIMILAR TO SECTION A



HINGE CONNECTION RUBBER BUSHING
****SEE SPECIFICATIONS FOR DIAMETER REQUIREMENTS**



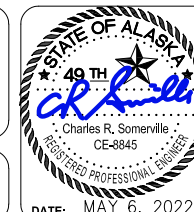
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



DESIGN: BMI CHECKED: CRS
 DRAWN: BMI APPROVED: CRS

9360 Glacier Highway Ste 100
 Juneau, Alaska 99801
 Phone: 907-586-2093
 Fax: 907-586-2099
 www.pndengineers.com

SCALE: NTS



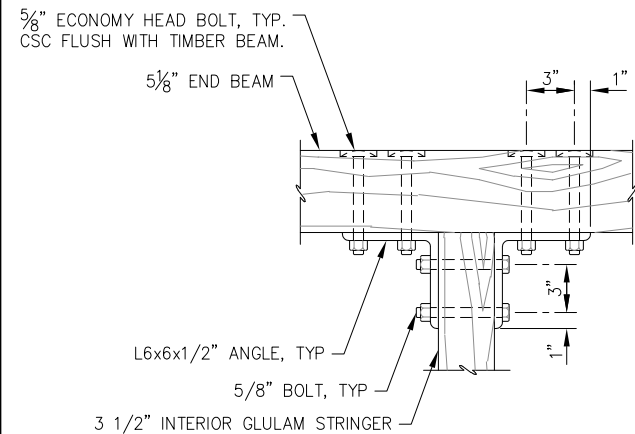
**SKAGWAY SMALL BOAT HARBOR
 BOAT LAUNCH EXTENSION**

SHEET TITLE:
BOARDING FLOAT DETAILS

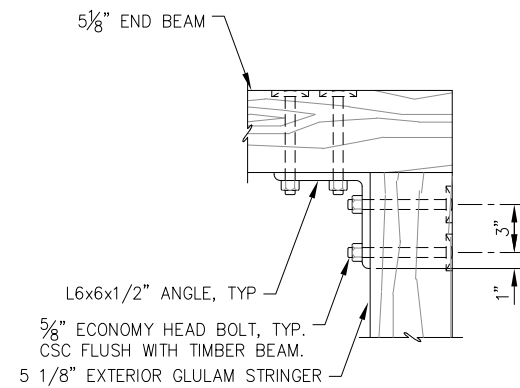
PND PROJECT NO.: 212081 C.A.N.: AECC250

8

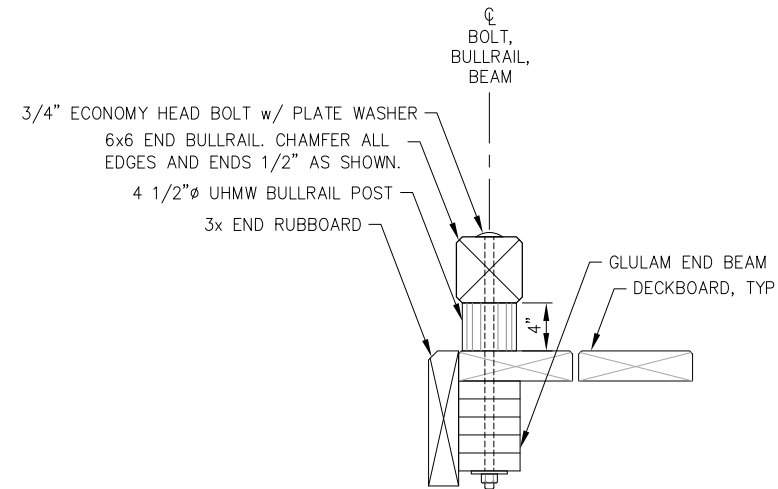
8 of 10



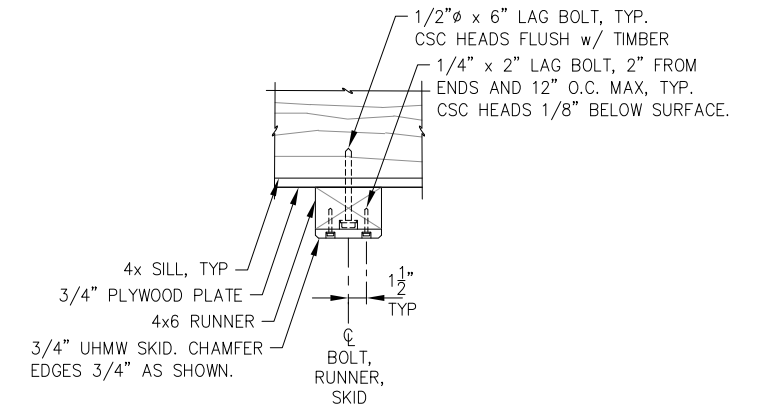
INTERIOR STRINGER CONNECTION - PLAN



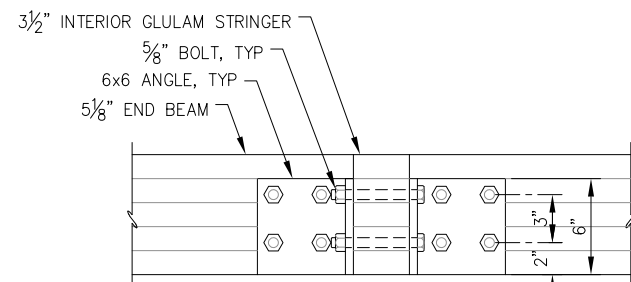
EXTERIOR STRINGER CONNECTION - PLAN



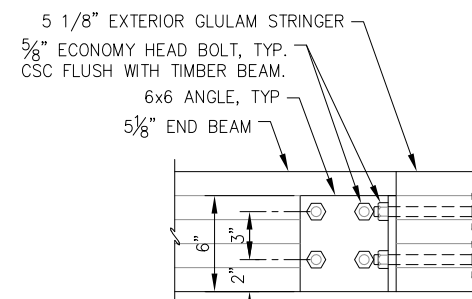
END BULLRAIL - SECTION



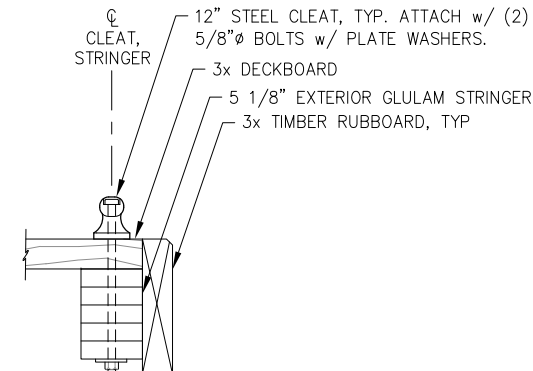
SKID - TYPICAL SECTION



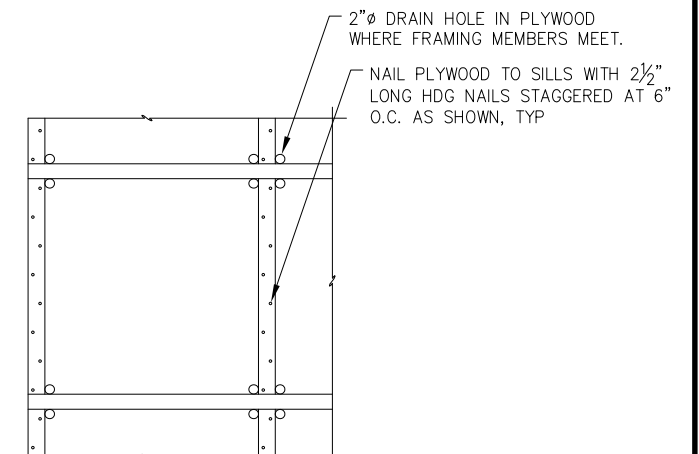
INTERIOR STRINGER CONNECTION - PROFILE



EXTERIOR STRINGER CONNECTION - PROFILE



CLEAT - SECTION



PLYWOOD PLATE - PLAN

NOTE: OMIT PLYWOOD PLATE BETWEEN FRAMING AT PILE HOOP.



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

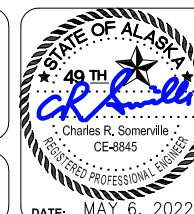


ENGINEERS, INC.

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE: NTS



**SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION**

SHEET TITLE:

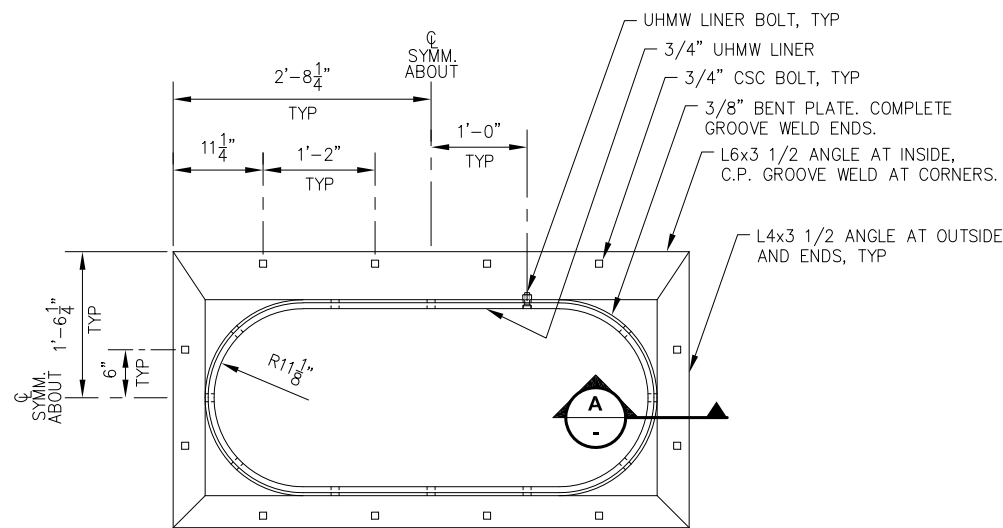
BOARDING FLOAT DETAILS

PND PROJECT NO.: 212081

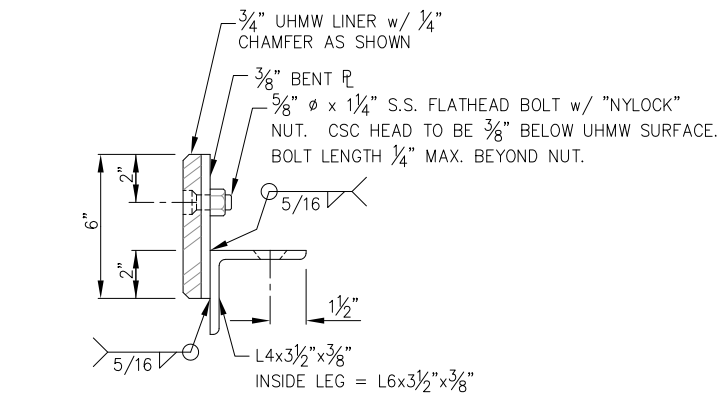
C.A.N.: AECC250

9

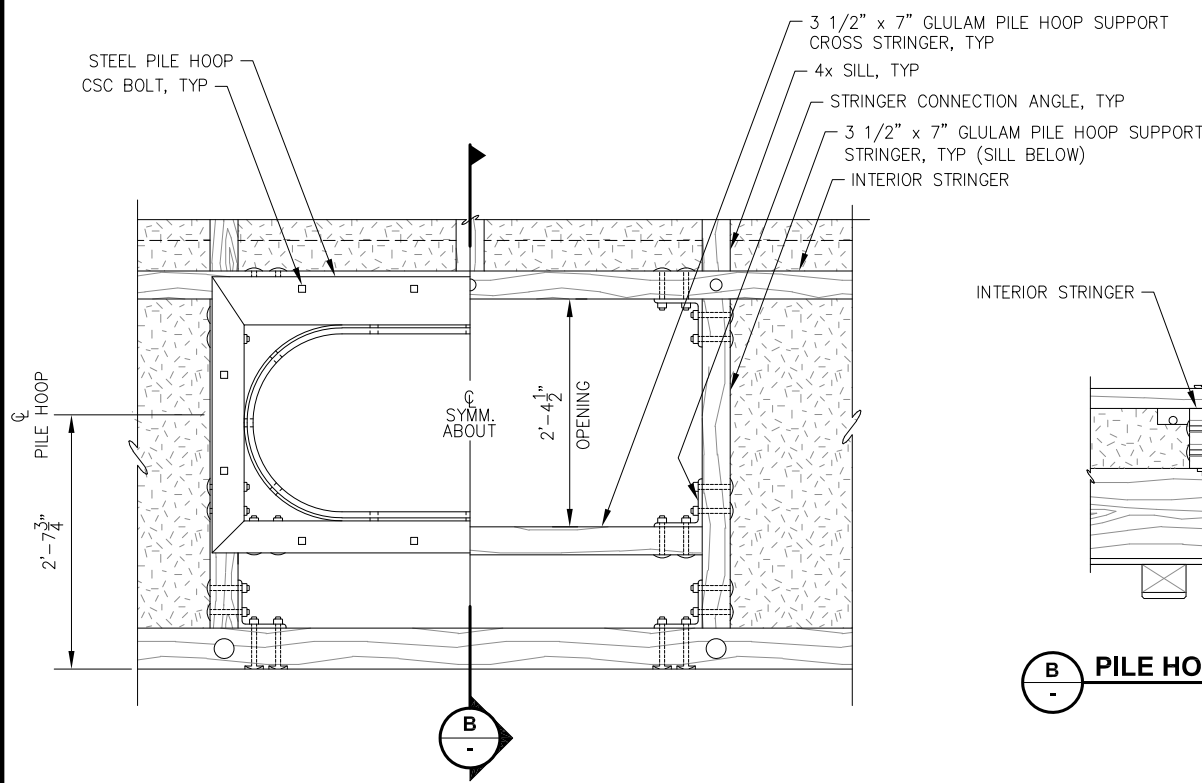
9 of 10



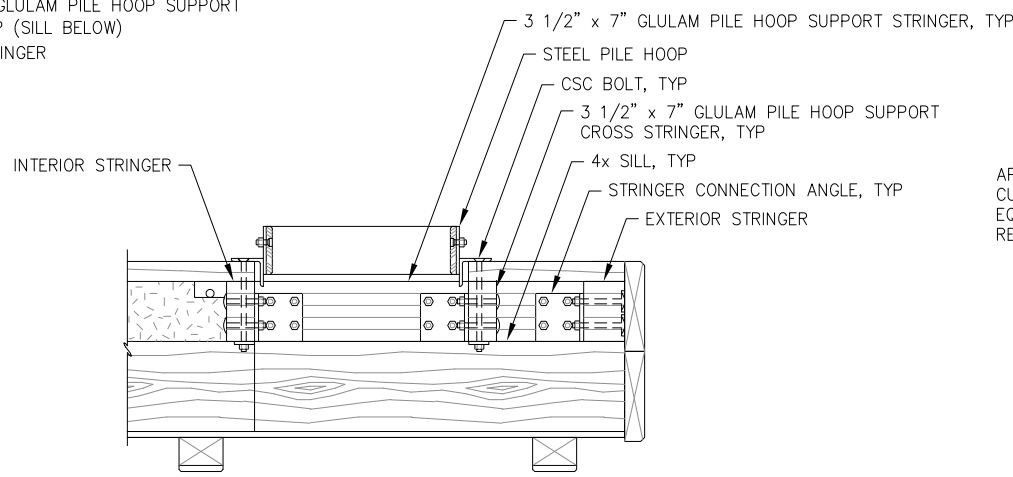
PILE HOOP - PLAN



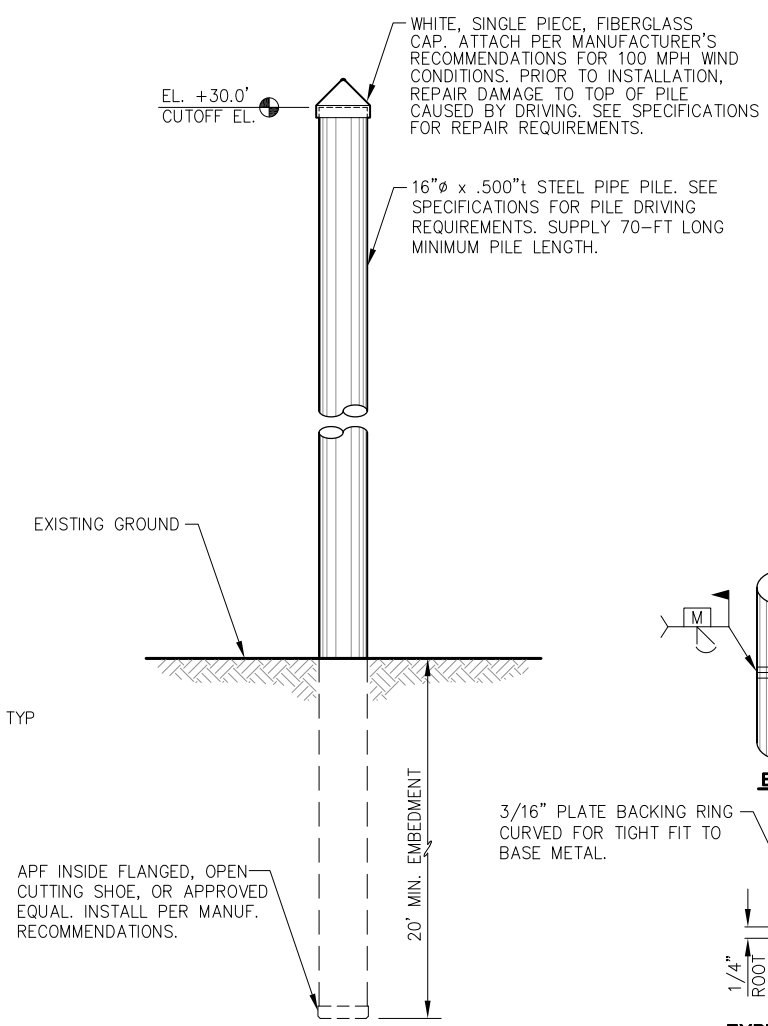
A PILE HOOP - TYPICAL SECTION



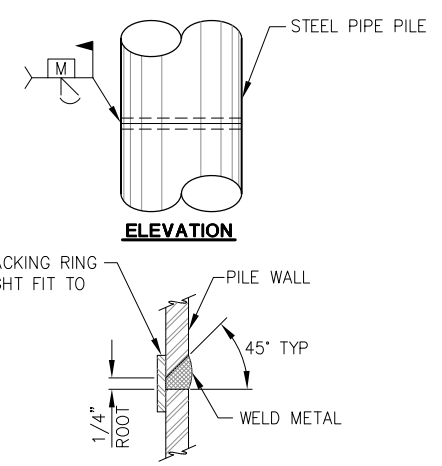
PILE HOOP FRAMING - PLAN



B PILE HOOP FRAMING - TYPICAL SECTION



PILE INSTALLATION DETAIL



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



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: BMI CHECKED: CRS
DRAWN: BMI APPROVED: CRS

SCALE: NTS



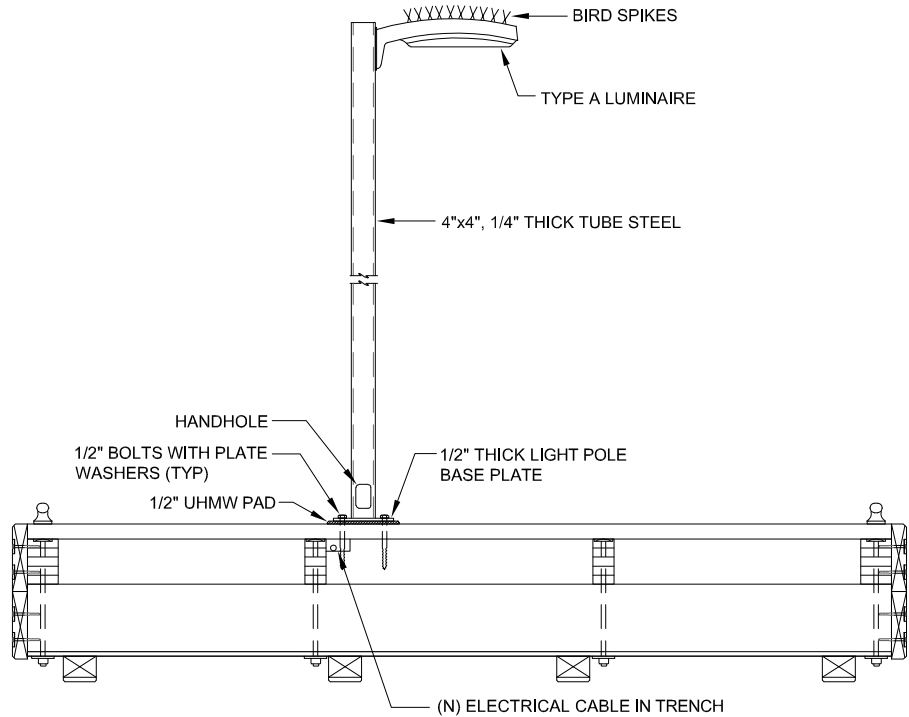
**SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION**

SHEET TITLE:
BOARDING FLOAT AND PILE DETAILS

PND PROJECT NO.: 212081 C.A.N.: AECC250

10
10 of 10

N:\PROJECTS\H137 - PND\140 SKAGWAY BOAT RAMP\DRAWINGS\WORKING\E1.DWG
Plotted 5/6/2022 1:41 PM by Peggy Leslie



1 **DETAIL - FLOAT MODULE LIGHT POLE**

- NOTES:
1. ALL MOUNTING MATERIALS SHALL BE STAINLESS STEEL OR GALVANIZED STEEL.

LEGEND

ABBREVIATIONS:

PE	PHOTOELECTRIC CELL
UGE	UNDERGROUND ELECTRICAL
UON	UNLESS OTHERWISE NOTED

SHEET NOTE SYMBOLS:

(E)	EXISTING TO REMAIN
(N)	NEW

LIGHTING:

	EXTERIOR POLE MOUNTED LUMINAIRE
--	---------------------------------

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	MATCH EXISTING POLE MOUNTED AREA LIGHT, DIE-CAST ALUMINUM HOUSING, TYPE III DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, 120-277V, WHITE FINISH	GARDCO GL13-3-35LA-6435-NW-UNIV-WP-SPA-MP	50W WHITE LED 4000K, CRI 85	PROVIDE LUMINAIRE WITH BIRD SPIKES.
POLE	12 FT x 4" SQ. SQUARE STEEL POLE, DRILLED FOR ONE, WHITE K-KLAD OVER GALVANIZED FINISH	KW INDUSTRIES SSP12-4.0-11-KZ81-DM10	-	



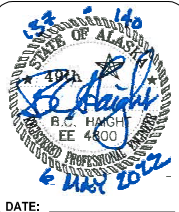
Juneau, AK
526 Main St.
Juneau, AK 99801
Phone: 907.586.9788
Fax: 907.586.5774
AECC163270

REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

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



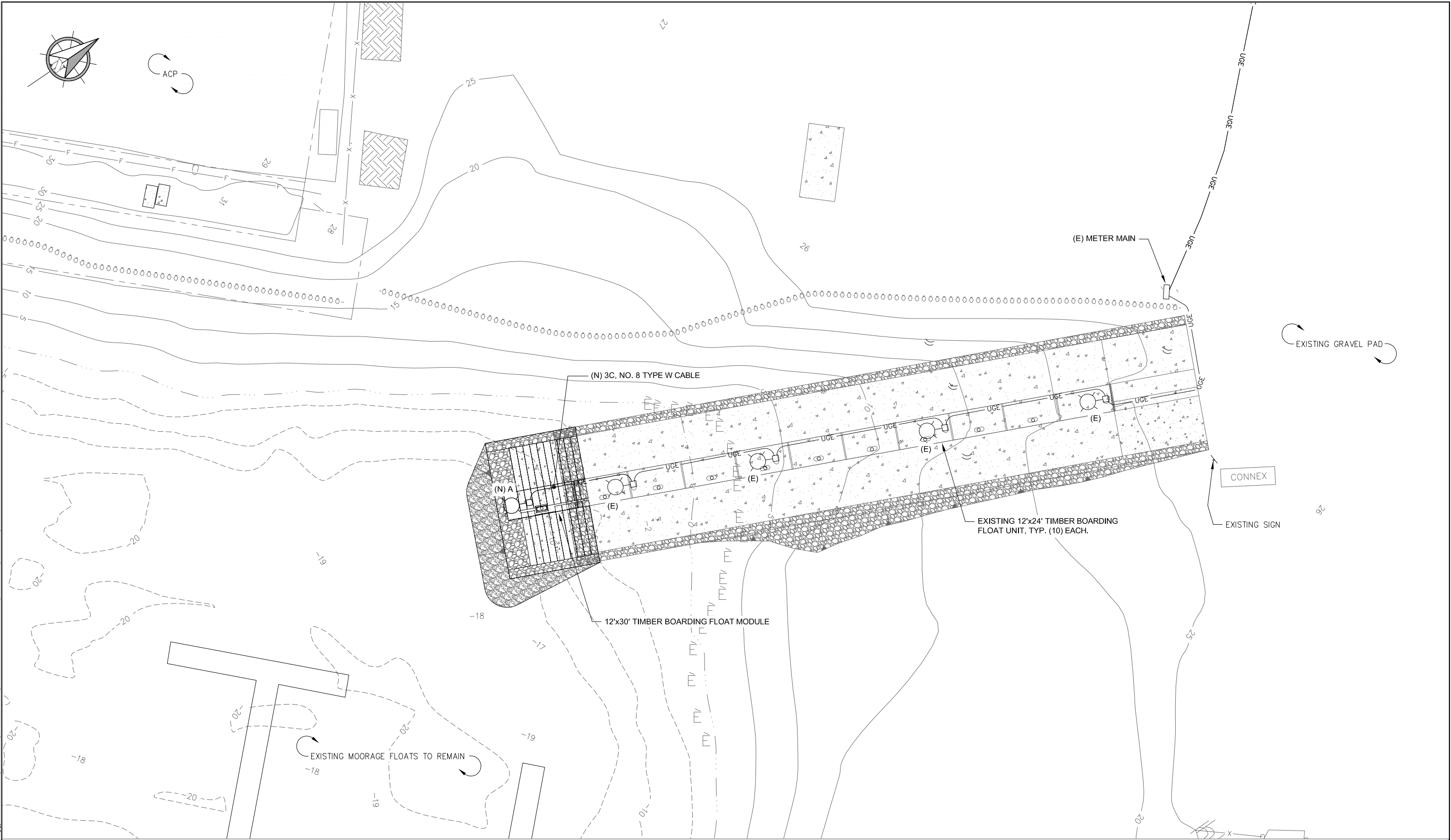
**SKAGWAY SMALL BOAT HARBOR
BOAT LAUNCH EXTENSION**

SHEET TITLE:
LEGEND, DETAIL, LUMINAIRE SCHEDULE

PND PROJECT NO.: 212081 C.A.N.: AECC250

E1
1 of 2

Plotted 5/6/2022 1:41 PM by Peggy Leslie N:\PROJECTS\H137 - PND\140 SKAGWAY BOAT RAMP\DRAWINGS\WORKING\E2.DWG



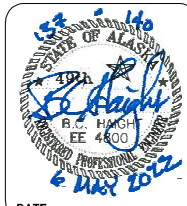
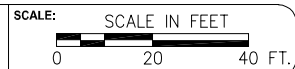
Juneau, AK
526 Main St.
Juneau, AK 99801
Phone: 907-586.9788
Fax: 907-586.5774
AECC163270

REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

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



DATE: _____

SKAGWAY SMALL BOAT HARBOR BOAT LAUNCH EXTENSION

SHEET TITLE:

ELECTRICAL SITE PLAN

PND PROJECT NO.: 212081

C.A.N.: AECC250

E2

2 of 2