

## PUBLIC NOTICE

Alaska Department of Environmental Conservation (DEC)
Wastewater Discharge Authorization Program/§401 Certification
555 Cordova Street, Anchorage AK 99501-2617
Phone: 907-269-6285 | Email: DEC-401Cert@alaska.gov

# Notice of Application for State Water Quality Certification

Public Notice (PN) Date: October 29, 2024 PN Reference Number: POA-1985-00696 v1.0 PN Expiration Date: November 28, 2024 Waterway: Port Frederick

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into waters of the United States, in accordance with Section 401 of the Clean Water Act (CWA), must also apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the CWA and the Alaska Water Quality Standards (18 AAC 70). The scope of certification is limited to the water quality-related impacts from the activity subject to the Federal license or permit (40 CFR 121.3, 18 AAC 15.180).

Notice is hereby given that a request for a CWA §401 Water Quality Certification of a Department of the Army Permit application, Corps of Engineers' PN Reference Number indicated above has been received for the discharge of dredged and/or fill materials into waters of the United States (WOTUS), including wetlands, as described below, and shown on the project figures/drawings. The public notice and related project figures/drawings are accessible from the DEC website at <a href="https://dec.alaska.gov/water/wastewater/">https://dec.alaska.gov/water/wastewater/</a>.

To comment on the project or request for a public hearing with respect to water quality, submit comments via email to the DEC email address: <a href="mailto:DEC-401Cert@alaska.gov">DEC-401Cert@alaska.gov</a> with the subject line referencing Public Notice Reference Number: <a href="mailto:POA-1985-00696">POA-1985-00696</a> v1.0 or via DEC website <a href="https://dec.alaska.gov/commish/public-notices/">https://dec.alaska.gov/commish/public-notices/</a> on or before the public notice expiration date listed above.

<u>Applicant</u>: City of Hoonah, Dennis Gray Jr, PO Box 360, Hoonah, AK 99829, (907) 945-3663; <u>dgray@cityofhoonah.org</u>

**Project Name:** Hoonah Marine Industrial Center Cargo Dock Project

Dates of the proposed activity is planned to begin and end: 08/15/2025 to 08/14/2026

<u>Location</u>: The proposed activity is located within Section 28, T. 43S, R. 61E, Copper River Meridian, in Hoonah Angoon Census Area, Alaska. Project Site (Latitude, Longitude): 58.115972, -135.45405.

<u>Purpose</u>: The purpose of the project is to construct a new cargo dock in Hoonah to enable barges to land, unload, and load during all weather conditions. The project is needed to allow for the safe, reliable, and economical transport of freight to and from Hoonah.

<u>Description of Proposed Work</u>: The City of Hoonah proposes to construct a sheet pile bulkhead cargo dock at the city-owned Hoonah Marine Industrial Center (HMIC) in Hoonah, Alaska. The HMIC is a phased approach to enhance the Hoonah waterfront and to provide infrastructure to support maritime industries in Hoonah. The proposed cargo dock is one component of the HMIC.

To construct a bulkhead cargo dock consisting of approximately 330 linear feet of sheet pile adjacent to and within the footprint of the existing gravel barge landing. Approximately 542 sheet piles would make up an "open cell" structure and 21,160 square feet (23,220 cubic yards [cy]) of armor rock, shot rock, surfacing course, and concrete fill would be placed to make up the cargo dock. The proposed project would also include the installation of a barge

<sup>&</sup>lt;sup>1</sup> Reference submission number: HQ4-5KY9-5GBHH; Received: 6/6/2024 1:06:52 PM

Roll-on/Roll-off (RoRo) ramp on the cargo dock deck, five fender piles, and three breasting dolphins (one southeast of the proposed dock and two northwest of the proposed dock). Construction would begin in fall 2025 and continue for approximately four to five months. No blasting is proposed as part of this project.

<u>Applicant Proposed Mitigation</u>: The applicant proposes the following mitigation measures to avoid, minimize, and compensate for impacts to waters of the United States from activities involving discharges of dredged or fill material.

- a. <u>Avoidance</u>: Complete avoidance of waters of the United States is not possible in order to meet the project purpose and need. The project would be located within Port Frederick along a previously disturbed shoreline.
- b. <u>Minimization</u>: The proposed project uses the most compact design practicable to minimize impacts to waters of the U.S. while meeting the project purpose and need.
  - Fill would be placed inside sheet pile walls to minimize turbidity.
  - A silt curtain will be employed during tension anchoring activities to contain drill spoils as much as possible to allow them to settle to the sea floor in the immediate area rather than increasing turbidity over a wider area.
  - Temporary piles will be removed slowly to allow sediment to slough off near the mudline.
- c. <u>Mitigation</u>: The total in-water fill for the proposed project would be minimal (approximately 0.4 acres below HTL) in comparison to the available waters in Port Frederick. The project footprint is within a previously developed area. The City of Hoonah will develop further mitigation measures if required by ADEC.
  - Spill response equipment will be kept on-site during construction and operation.

After reviewing the application, the Department will evaluate whether the activity will comply with applicable water quality requirements (any limitation, standard, or other requirement under sections 301, 302, 306, and 307 of the CWA, any Federal and state laws or regulations implementing those sections, and any other water quality-related requirement of state law). The Department may certify (or certify with conditions) with reasonable assurance the activity and any discharge that might result will comply with water quality requirements. The Department also may deny or waive certification.

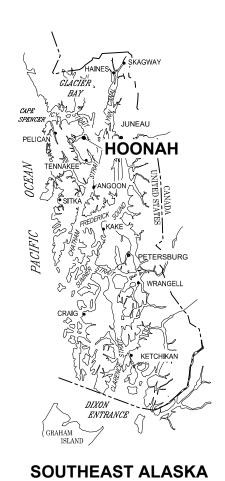
The permit application and associated documents are available for review. For inquires or to request copies of the documents, contact <u>dec-401cert@alaska.gov</u>, or call 907-269-6096.

## Disability Reasonable Accommodation Notice

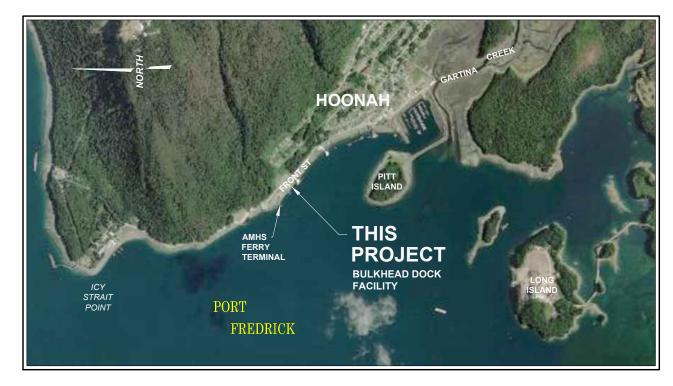
The State of Alaska, Department of Environmental Conservation complies with Title II of the Americans with Disabilities Act (ADA) of 1990. If you are a person with a disability who may need special accommodation in order to participate in this public process, please contact ADA Coordinator Megan Kohler at 907-269-4198 or TDD Relay Service 1-800-770-8973/TTY or dial 711 prior to the expiration date of this public notice to ensure that any necessary accommodations can be provided.

# SOUTHEAST ALASKA

**VICINITY** 



# **CITY OF HOONAH** SHEET PILE BULKHEAD DOCK



## **VICINITY MAP**



HOONAH TIDAL DATA	A
DESCRIPTION	ELEV. (FT.)
EXTREME HIGH WATER (EHW)	+20.0±
MEAN HIGHER HIGH WATER (MHHW)	+15.0
MEAN HIGH WATER (MHW)	+14.0
MEAN SEA LEVEL (MSL)	+7.9
MEAN TIDE LEVEL (MTL)	+7.8
MEAN LOW WATER (MLW)	+1.5
MEAN LOWER LOW WATER (MILW)	0.0

EXTREME LOW WATER (ELW)

TIDAL DATA FROM:

G1.01	TITLE SHEET, VICINITY MAP AND DRAWING INDEX
G1.02	CIVIL GENERAL NOTES, LEGEND AND ABBREVIATIONS
G1.03	STRUCTURAL GENERAL NOTES, LEGEND AND ABBREVIATIONS
	CIVIL
C1.01	EXISTING CONDITIONS, SURVEY CONTROL AND TEST HOLE LOCATIONS
C1.02	NON MANDATORY ROCK QUARRY USAGE PLAN
C1.03	GENERAL SITE PLAN
C1.04	SITE LAYOUT & GRADING PLAN
	SHEET PILE BULKHEAD DOCK
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S2.02	SHEET PILE ROLL OUT ELEVATION
S2.03	TAILWALL SECTIONS
S2.04	TAILWALL SECTIONS
S2.05	TAILWALL SECTIONS
S2.06	SHEET PILE DETAILS
S2.07	SHEET PILE DETAILS
S2.08	VIBRACOMPACTION AND BACKFILL PLAN
S2.09	DOCK FINISHING PLAN
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S2.11	RAMP LAYOUT PLAN AND DETAILS
S2.12	RAMP SECTIONS
S2.13	RAMP FACE BEAM PLAN AND DETAILS
S2.14	FENDER FACE BEAM
	BREASTING DOLPHINS
S3.01	DOLPHIN 1 & 2 SECTION AND DETAILS
S3.02	DOLPHIN 3 SECTION AND DETAILS
S3.03	ROCK ANCHOR DETAILS
	ELECTRICAL
E1.00	ELECTRICAL LEGEND AND NOTES
E1.01	ELECTRICAL SITE PLAN
E1.02	DETAILS

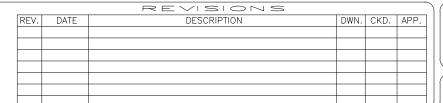
**DRAWING INDEX** 

GENERAL

TITLE

DWG. NO.







9360 Glacier Highway Ste 100 Juneau, Alaska 99801

Fax: 907-586-2099 www.pndengineers.com

DESIGN: CRS CHECKED: MBH AS SHOWN DRAWN: PJD/KLL APPROVED: CRS



E1.03 DIAGRAMS

## CITY OF HOONAH SHEET PILE BULKHEAD DOCK

TITLE SHEET, VICINITY MAP AND DRAWING INDEX

G1.01



## **GENERAL NOTES**

## 1. EROSION AND POLLUTION CONTROL PLANS

DEVELOP AND SUBMIT FOR AGENCY REVIEW AND APPROVAL A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THIS PLAN SHALL INCLUDE AN EROSION AND SEDIMENT CONTROL PLAN BASED UPON THE CONTRACTOR'S SCHEDULING, EQUIPMENT AND WORK. TO THE GREATEST EXTENT POSSIBLE FOLLOW THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (ADOT/PF) ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE (ASWPPPG). THE PLAN SHALL CONSIDER FIRST PREVENTING EROSION, THEN MINIMIZING AND TRAPPING SEDIMENT PRIOR TO ITS ENTERING THE WATERWAYS. THE PLAN MUST ADDRESS THE SITE—SPECIFIC CONTROLS AND MANAGEMENT FOR THE CONSTRUCTION SITE AND AFFECTED AREAS. THE PLAN MUST INCORPORATE ALL THE REQUIREMENTS OF THE PROJECT PERMITS. BEST MANAGEMENT PRACTICES AS LISTED IN THE ASWPPPG SHALL BE USED.

THE CONTRACTOR SHALL PREPARE A HAZARDOUS MATERIAL CONTROL PLAN (HMCP) FOR THE HANDLING, STORAGE, CLEAN-UP AND DISPOSAL OF PETROLEUM AND OTHER HAZARDOUS SUBSTANCES. THE CONTRACTOR SHALL LIST AND GIVE LOCATIONS OF ALL HAZARDOUS MATERIALS, INCLUDING FIELD OFFICE MATERIALS, TO BE USED AND STORED ON-SITE AND THEIR ESTIMATED QUANTITIES. THE PLAN SHALL PROVIDE DETAILS FOR STORING THESE MATERIALS AS WELL AS DISPOSING WASTE PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS GENERATED BY THE PROJECT.

IDENTIFY THE LOCATIONS WHERE HAZARDOUS MATERIAL STORAGE, FUELING AND MAINTENANCE ACTIVITIES WILL TAKE PLACE. IF ON—SITE, DESCRIBE THE MAINTENANCE ACTIVITIES AND LIST ALL CONTROLS TO PREVENT THE ACCIDENTAL SPILLAGE OF OIL, PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS. DETAIL PROCEDURES FOR CONTAINMENT AND CLEANUP OF HAZARDOUS SUBSTANCES INCLUDING A LIST OF THE TYPES AND QUANTITIES OF EQUIPMENT AND MATERIALS AVAILABLE ON—SITE TO BE USED.

THE PLAN SHALL PROVIDE DETAILS FOR PREVENTION, CONTAINMENT, CLEAN-UP AND DISPOSAL OF SOIL AND WATER CONTAMINATED BY ACCIDENTAL SPILLS AND FOR UNEXPECTED CONTAMINATED SOIL AND WATER ENCOUNTERED DURING CONSTRUCTION.

- 2. MATCH EXISTING GRADES AT PROJECT LIMITS AND WHERE REQUIRED TO MATCH ELEVATIONS AT EXISTING ROADS.
- 3. ALL REMOVED MATERIALS THAT ARE NOT SUITABLE FOR REUSE ON THE PROJECT SHALL BE PROPERLY DISPOSED OF OFF SITE.
- 4. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE PRESENT HOWEVER ARE NOT SHOWN. 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! 811

UNDERGROUND POWER, TELEPHONE, T.V., COMMUNICATIONS, WATER AND SEWER LINES ARE IN THE AREA. UTILITIES SHOWN ON THE PLANS DO NOT SUBSTITUTE FOR FIELD LOCATES.

- 5. PROPERTY DISTURBED DURING CONSTRUCTION OUTSIDE OF PROJECT LIMITS SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION.
- 6. GRADING AND ALIGNMENT OF PIPE, STRUCTURES & FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES.
- 7. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.

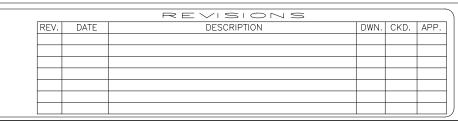
## LEGEND

## **EXISTING** THIS PROJECT **→ ○** CP △ SURVEY CONTROL BOLLARD 0 E EO FLECTRIC PEDESTAL V FIRE HYDRANT ळ्लेव ☀ LIGHT POLE w/ LUMINAIRE METAL PILING 9 POWER POLE $\Box$ TELEPHONE PEDESTAL (SMP) SANITARY SEWER MANHOLE (7) SANITARY SEWER CLEAN OUT STORM DRAIN MANHOLE STORM DRAIN CATCH BASIN $\bowtie$ WATER VALVE WOOD PILING BUILDING LINE CENTER OF CREEK CENTER LINE FENCELINE GEOTEXTILE REINFORCEMENT GRADE BREAK OVERHEAD ELECTRIC UNDERGROUND ELECTRIC PIPFI INF PROPERTY LINE SANITARY SEWER SANITARY SEWER FORCE MAIN STORM DRAIN WATER LINE CURB & GUTTER w/ TYPE LAYOUT POINT LAYOUT RADIUS TEST HOLE CONCRETE/SIDEWALK r====== CULVERT PAVEMENT/ACP

## **ABBREVIATIONS**

יוטטא	CEVIATIONS				
A		GRD	GROUND	_ <b>Q</b>	
@	AT	GRS	GALVANIZED RIGID STEEL	QA	QUALITY ASSURANCE
AC	ASBESTOS CEMENT PIPE	GV	GATE VALVE	QC	QUALITY CONTROL
ACP	ASPHALT CONCRETE PAVEMENT	H	LILID A TAOK	QTY	QUANTITY
ADA ADJ	AMERICANS WITH DISABILITIES ACT ADJUSTABLE	H&T HD	HUB & TACK HEAVY DUTY	<b>R</b> RAD	RADIUS
APF	ASSOCIATED PILE AND FITTING CORP.		HOT-DIPPED GALVANIZED	RE	RIM ELEVATION
APPROX.	APPROXIMATE			DEE	REFERENCE
or APPX.	· · · · · · · · · · · · · · · · · · ·	HORIZ	HORIZONTAL	REINF REQD RTW	REINFORCEMENT
ATS	ALASKA TIDELANDS SURVEY	HSE	HOUSE	REQD	REQUIRED
AV <b>B</b>	AIR RELEASE VALVE	HT		RTW	RETAINING WALL
BCC	BEGINNING OF CURB CUT	HWY. I	HIGHWAY	RO ROW	ROUGH OPENING RIGHT OF WAY
BFV		IAW	IN ACCORDANCE WITH	S	Morri or war
BLDG		ID	INSIDE DIAMETER	S	SOUTH
BOP	BEGINNING OF PROJECT	ΙE	INVERT ELEVATION	SCHED/SCH	SCHEDULE
BTM, BOT		IN	INCH	SD	STORM DRAIN
BTWN C	BETWEEN	IP INCL	IRON PIPE INCLUDE (D) (ING)	CDI	STORM DRAIN INLET STRUCTURE
C&G	CURB & GUTTER	INCL	INSULATE (D) (ION)	SD0	STORM DRAIN OUTLET STRUCTURE
CB	CATCH BASIN	INV	INVERT	SDR	STANDARD DIMENSION RATIO
CI	CAST IRON	J		SF SHLDR	SQUARE FOOT SHOULDER
CIP	CAST-IN-PLACE	JB	JUNCTION BOX	SI	STREET INTERSECTION
€ CJ	CONTROL JOINT	L	DOUNDS	SPEC	SPECIFICATION (S)
CLR		LBS LF	POUNDS LINEAR FEET		SQUARE
CMP		LL	LIVE LOAD	SRB	SHOT ROCK BORROW
CO	CLEANOUT	LOC	LOCATION	SSC	SANITARY SEWER CONNECTION
C.O.E.		LS	LUMP SUM	SDMH 22	STAINLESS STEEL, SANITARY SEWER STORM DRAIN MANHOLE
COMM	COMMUNICATION	M	AAAAAAAAA	SSMH	SANITARY SEWER MANHOLE
CONC.	CONTINUOUS	MAX M.E.	MAXIMUM MATCH EXISTING	SQ SRB SSC SS SDMH SSMH STA	STATION
CP	COMPLETE PENETRATION	MECH	MECHANICAL	STD	STANDARD
CPEP/CPP	CONCRETE CONTINUOUS COMPLETE PENETRATION CORRUGATED POLYETHYLENE PIPE	MFR	MANUFACTURE (R)	STL	STEEL
CUR	CORNER	MH	MANHOLE	STRG SW	STRONG SIDEWALK
CSC CTE	COUNTERSINK CONNECT TO EXISTING	MJ	MECHANICAL JOINT	SWR	SEWER
CTR	CENTER	MI MIN	MALLEABLE IRON MINIMUM	SY	SQUARE YARD
CY	CUBIC YARD			SYM	SYMMETRICAL
D		MSF	1000 SQUARE FEET	T t	THICK
DPC D /DIA	DISSIMILAR PIPE COUPLING	MSE	MECHANICALLY STABILIZED EARTH	T&B	TOP AND BOTTOM
D/DIA DBL	DIAMETER DOUBLE	MTL	MATERIAL (S)	T&G	TONGUE AND GROOVE
DEMO	DEMOLITION	<b>N</b> N	NORTH	TBC	TOP BACK OF CURB
DFT	DRY FILM THICKNESS	NFS	NON FROST SUSCEPTIBLE	TBD	TO BE DETERMINED
DL	DEAD LOAD	NIC	NOT IN CONTRACT	TBM TD	TEMPORARY BENCH MARK TRENCH DRAIN
DIP	DUCTILE IRON PIPE	NO	NUMBER	TEL	TELEPHONE
DIM DN	DIMENSION DOWN	NTS O	NOT TO SCALE	TEMP	TEMPERATURE, TEMPORARY
DTL	DETAIL	OBD	OVERBURDEN	TH	TEST HOLE
E		OC	ON CENTER	THK	THICK
E.	EAST	OD	OUTSIDE DIAMETER	TRANS TSM	TRANSVERSE THERMAL SPRAY METALIZE
EA. EC	EACH EDGE OF CONCRETE	OG OUE	ORIGINAL GOOND	TV	TELEVISION
ECC	END OF CURB CUT	OHE OS	OVERHEAD ELECTRICAL OWNER SUPPLIED	TYP	TYPICAL
EG	EXISTING GRADE	OWS	OIL-WATER SEPARATOR	U	
EJ .	EXPANSION JOINT	OPP	OPPSITE	UAMH	UTILITY ACCESS MANHOLE
EL/ELEV		Р		UBC UE	UNIFORM BUILDING CODE UNDERGROUND ELECTRIC
ELEL EOP	ELECTRICAL	P	PIPE	UMC	UNIFORM MECHANICAL CODE
EQ	END OF PAVEMENT EQUAL	PC PCC	POINT OF CURVATURE, PIECE PRECAST CONCRATE	UHMW	ULTRA HIGH MOLECULAR WEIGHT
EQUIP	EQUIPMENT	1 00	POINT OF COMPOUND CURVATURE	UON/UNO	UNLESS OTHERWISE NOTED
EST	ESTIMATE	PE	POLYETHYLENE	UPC	UNIFORM PLUMBING CODE
EW	EACH WAY	PED	PEDESTAL	U V <b>V</b>	ULTRAVIOLET
EXC	EXCAVATE	PER	PERIMETER (D)	<b>V</b> VB	VALVE BOX
EXIST <b>F</b>	EXISTING	PERF PI	PERFORATE (D) POINT OF INTERSECTION	VERT	VERTICAL
FC	FACE OF CURB	PLWD	PLYWOOD	VG	VALLEY GUTTER
FD	FLOOR DRAIN	PL	PROPERTY LINE, PLATE	W	
FF	FINISHED FLOOR	POC	POINT OF CURVE	W	WEST
FG	FINISHED GRADE	PP	POLYPROPYLENE	W/ WD	WITH WOOD
FH FIN	FIRE HYDRANT, FLAT HEAD FINISH (ED)	PRC PROJ	POINT OF REVERSE CURVATURE PROJECT	WELDMT	WELDMENT
FM	FORCE MAIN SEWER	PRKG	PARKING	WL	WATERLINE
FND	FOUNDATION	PRV	PRESSURE REDUCING VALVE	WQU	WATER QUALITY UNIT
FOC	FACE OF CURB	PSI	POUND PER SQUARE INCH	W∨ WW	WATER VALVE
FT FT-LBS	FOOT POUNDS	PT	POINT, PRESSURE TREATED, POINT OF TANGENCY	WWTP	WATER WATER WASTE WATER TREATMENT PLANT
FTG	FOOTING	PVC	POINT OF TANGENCY POINT OF VERTICAL CURVATURE,	W/O	WITHOUT
FL	FLOWLINE OR FLANGE		POLY-VINYL CHLORIDE	X	TDANCEODMED
G ALV	CALVANIZED	PVI	POINT OF VERTICAL INTERSECTION	XFMR <pt< td=""><td>TRANSFORMER ANGLE POINT</td></pt<>	TRANSFORMER ANGLE POINT
GALV GB	GALVANIZED GRADE BREAK			<b>V</b> 1	ANOLE I OIN







9360 Glacier Highway Ste 100 Juneau, Alaska 99801

Phone: 907-586-2093 Fax: 907-586-2099 www.pndengineers.com

 DESIGN:
 \_\_CRS
 \_\_CRECKED:
 \_\_CRS
 \_\_SCALE:

 DRAWN:
 \_\_PJD
 \_\_APPROVED:
 \_\_CRS
 \_\_NA

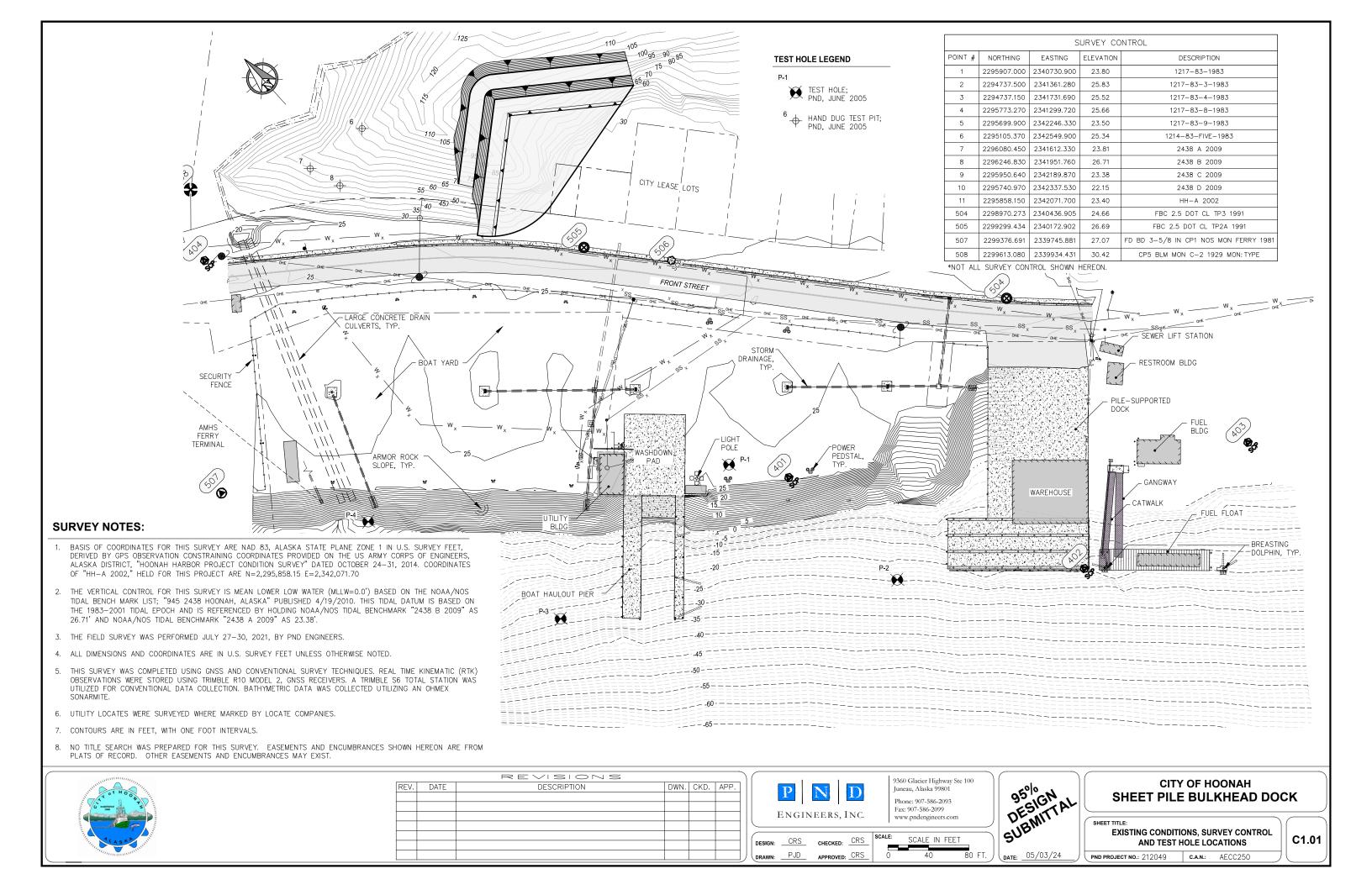


# CITY OF HOONAH SHEET PILE BULKHEAD DOCK

HEET TITLE:

CIVIL GENERAL NOTES, LEGEND AND ABBREVIATIONS

G1.02



## **GENERAL NOTES**

- 1) ALL INDIVIDUAL MINING PLANS SHALL BE APPROVED, IN WRITING, BY THE OWNER PRIOR TO CLEARING OR EXCAVATION.
- 2) ALL OVERBURDEN SHALL BE REMOVED TO A MINIMUM DISTANCE OF 15' FROM THE FINISHED WORKING FACE.
- 3) THE CUTBANK OF THE OVERBURDEN SHALL BE SLOPED TO THE NATURAL ANGLE OF REPOSE, BUT SHALL BE NO STEEPER THAN 2H:1V.
- 4) ALL DEAD TREES AND SNAGS WHICH ARE SUFFICIENTLY TALL TO REACH THE WORK AREA SHALL BE FELLED.
- 5) ALL OVERBURDEN, CLEARING, MERCHANTABLE TIMBER AND GRUBBING DEBRIS SHALL BE DISPOSED OF OFF SITE OR AS DIRECTED BY THE ENGINEER.
- 6) THE QUARRY SHALL BE LEFT IN A NEAT, ORDERLY AND WELL DRAINED CONDITION. ALL OVERHANGS AND LOOSE ROCK SHALL BE REMOVED FROM FINISHED CUT SLOPES.
- 7) AFTER EXCAVATION IS COMPLETE, THE AREA SHALL BE CLEANED UP AND LEFT AS
- 8) ALL MATERIALS LEAVING THE QUARRY LIMITS SHALL BE CONTAINED WITHIN THE
- 9) ALL DEBRIS AND OTHER BY—PRODUCTS OF TOPSOIL SCREENING OPERATIONS SHALL BE DISPOSED OF OFF SITE, OR AS APPROVED BY THE OWNER.
- 10) APPROXIMATE LIMITS OF PROPOSED QUARRY DEVELOPMENT SPECIFIC TO THIS PROJECT WILL BE APPROVED IN ADVANCE BY THE CITY.
- 11) THE MATERIALS WITHIN THE QUARRY THAT ARE MADE AVAILABLE TO THE CONTRACTOR FOR THIS PROJECT, MAY NOT MEET ALL MATERIAL SPECIFICATIONS FOR THIS PROJECT. THIS QUARRY DOES NOT MEET MATERIAL QUALITY REQUIREMENTS FOR ARMOR ROCK, BASE COURSE OR CLASS A SHOT ROCK BORROW.
- 12) MATERIAL STOCKPILED OFF-SITE MUST HAVE PRIOR APPROVAL OF THE OWNER.
- 13) AREA SURVEYED JULY 2021.

## INDIVIDUAL MINING PLAN

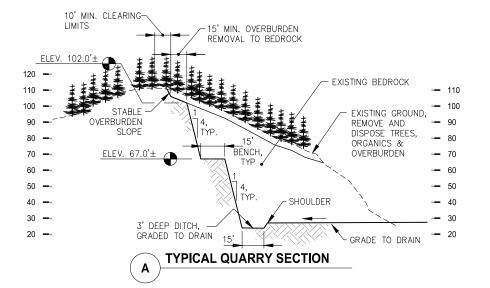
OPERATIONS SHALL NOT PROCEED UNTIL THE CONTRACTOR'S INDIVIDUAL MINING PLAN HAS BEEN APPROVED BY THE CITY.

ALL CONTRACTOR INDIVIDUAL MINING PLANS FOR REMOVAL OF MATERIAL FROM THE QUARRY SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA.

NO MANAGEMENT FEES WILL BE ASSESSED TO CONTRACTORS OBTAINING MATERIAL FROM CITY QUARRY EXCLUSIVELY FOR THIS PROJECT.

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE OWNER PRIOR TO BEGINNING ANY OPERATIONS WITHIN THE QUARRY LIMITS:

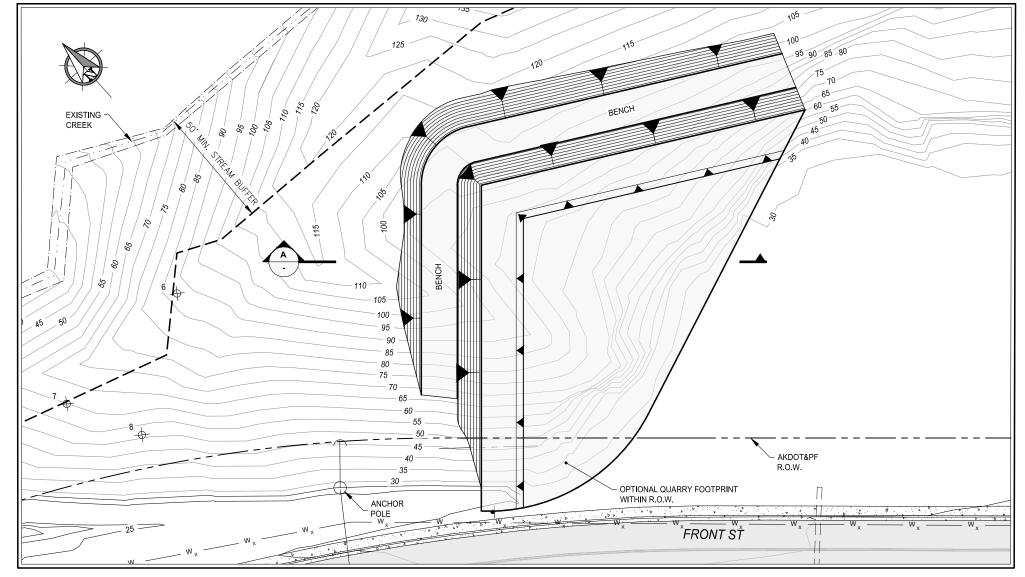
- A) MINING PLAN INCLUDE PLANNED TOTAL EXCAVATION QUANTITY, PLANNED SECTION (SEE SAMPLE CROSS SECTION A—A), EXCAVATION LIMITS, CLEARING AND GRUBBING LIMITS.
- B) NOISE CONTROL PLAN.
- C) STRIPPING / OVERBURDEN DISPOSAL PLAN.
- D) DRAINAGE AND POLLUTION PLAN.
- E) EXISTING UTILITY PROTECTION PLAN.
- F) RECLAMATION PLAN.
- G) TRAFFIC CONTROL PLAN
- H) AKDOT&PF AUTHORIZATION FOR ROCK REMOVAL WITHIN R.O.W.



## **TEST PIT LEGEND**

6 HAND DUG TEST PIT; PND, JUNE 2005

	TEST	PIT SUMMARY
TP#	DEPTH (FEET)	OBSERVATION & COMMENT
6	0-0.2 0.2-1.0 1.0-2.0 2.0	ORGANICS BROWN, SANDY SOIL GRANULAR SOIL WITH GRAVEL BEDROCK
7.	0-0.2 0.2-1.0 1.0-2.1 2.1	ORGANICS BROWN, SANDY SOIL GRANULAR SOIL WITH GRAVEL BEDROCK
8	0-0.2 0.2-0.6 0.6-1.5 1.5	ORGANICS BROWN, SANDY SOIL GRANULAR SOIL WITH GRAVEL BEDROCK





		REVISIONS			
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



DESIGN: CRS CHECKED: CRS

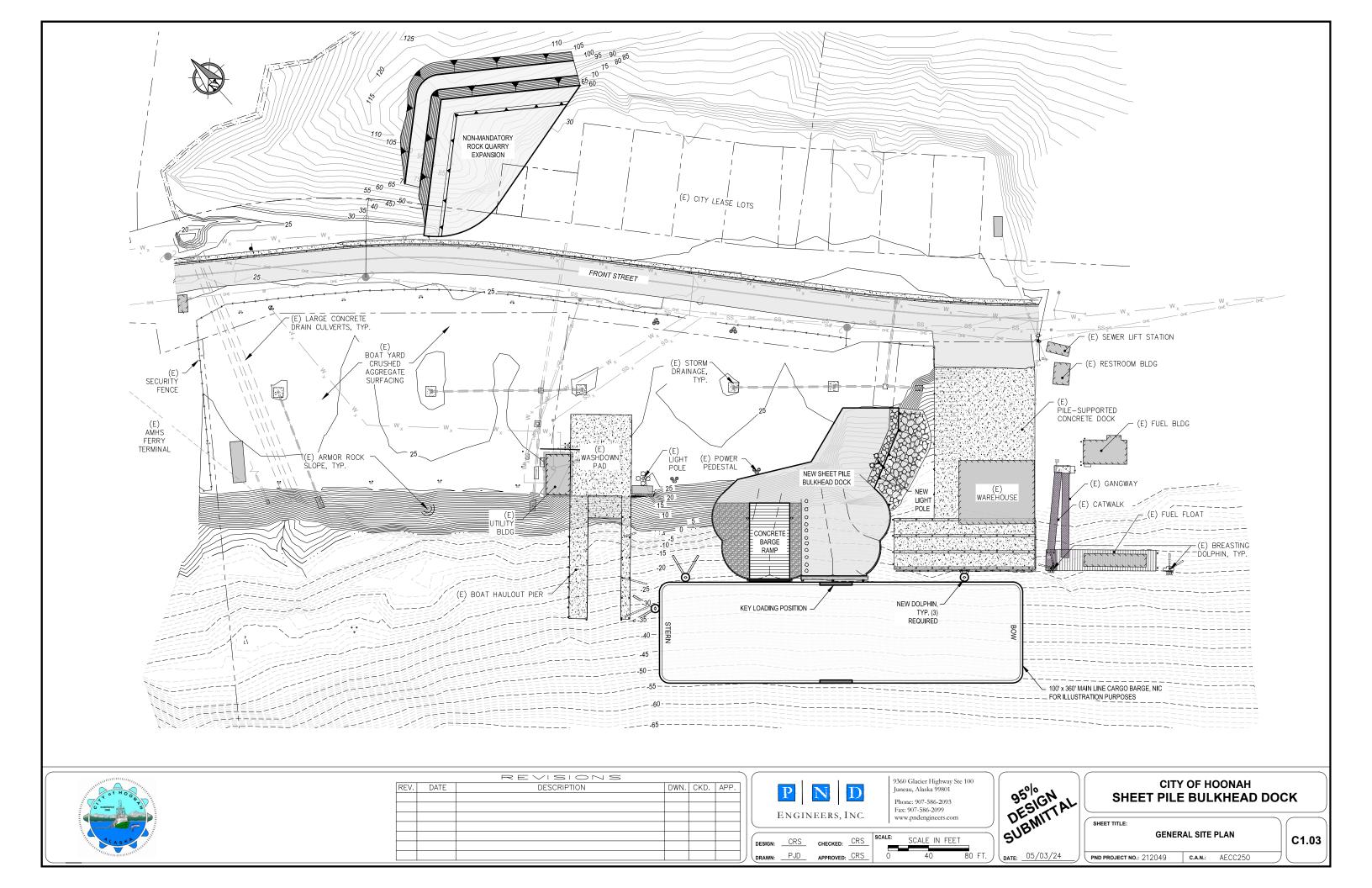
DRAWN: PJD APPROVED: CRS

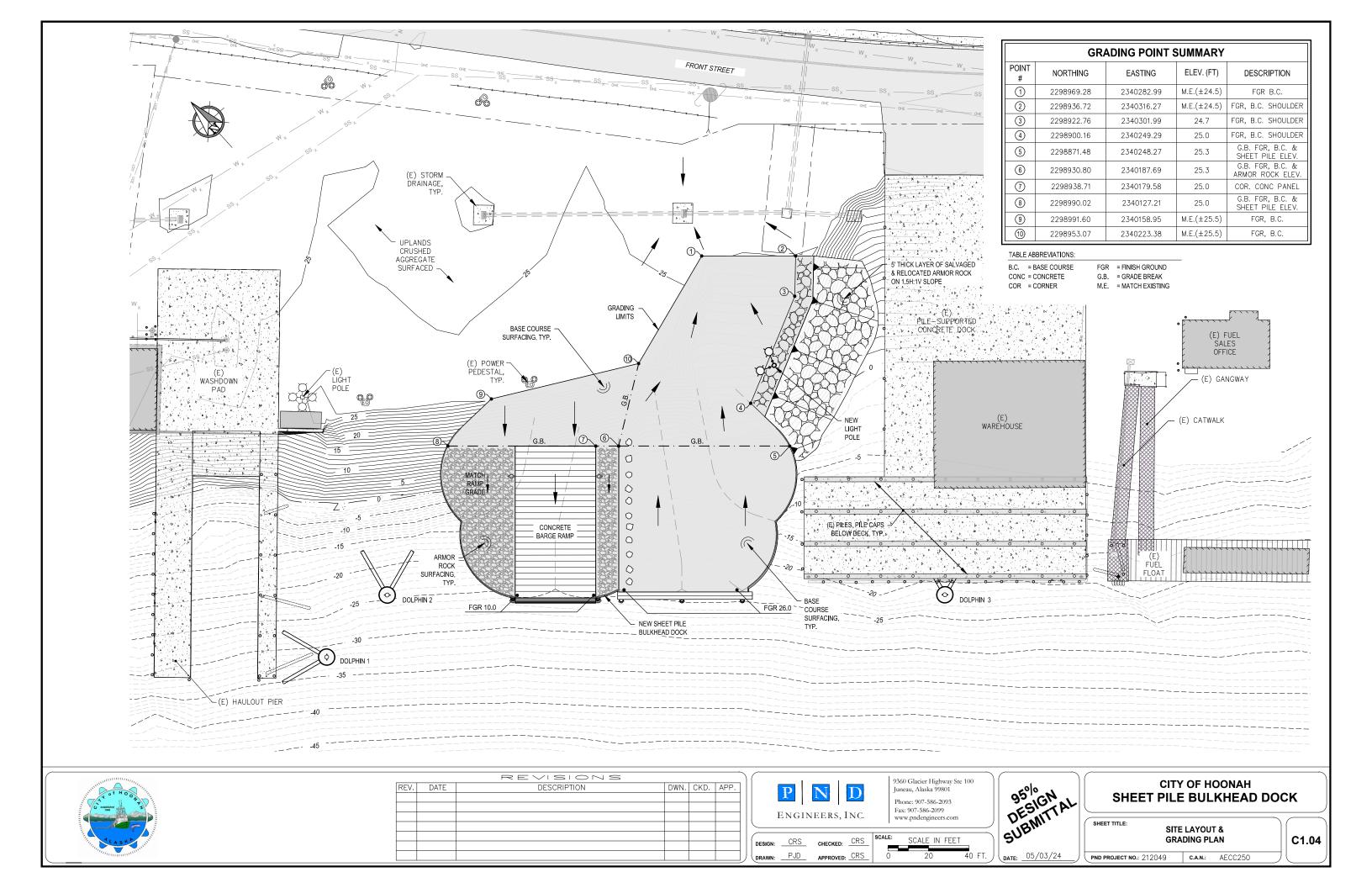
9500 Glacter Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
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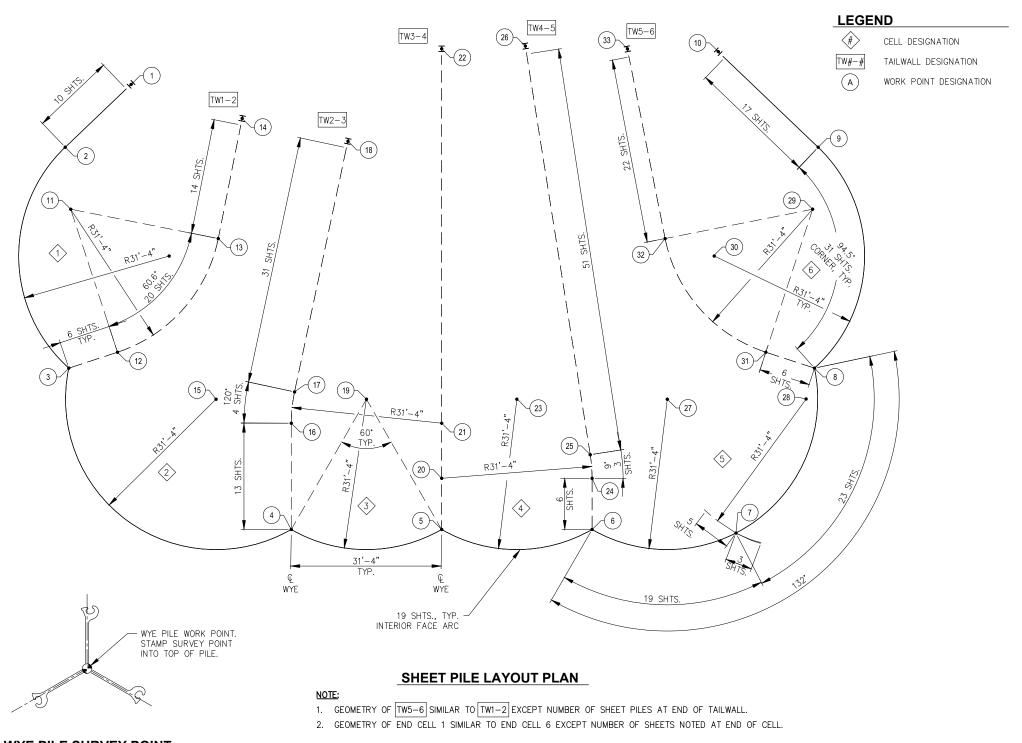
# CITY OF HOONAH SHEET PILE BULKHEAD DOCK

NON - MANDATORY
ROCK QUARRY USAGE PLAN

C1.02







### SHEET PILE LAYOUT POINT SUMMARY TABLE NORTHING **EASTING** DESCRIPTION 2298991.63 2340156.70 TAIL (2) 2298991.88 2340137.74 PC 2298958.48 2340106.09 WYE (4) 2298902.04 2340115.67 WYE (5) WYE 2298880 12 2340138 07 (6) 2298858.19 2340160.46 WYE (7) 2298836.69 2340181.36 Χ 2298849.80 2340217.08 WYE (9) 2298882.15 2340249.81 PC (10) 2298910.93 2340248.88 TAIL (11) 2340129.52 CR 2298981.86 (12) PC 2298953 76 2340115 65 (13) 2298955.99 2340147.21 PC (14) 2298970.39 2340168.28 TAIL 2298932.40 2340123.47 CR (16) PC 2298917.86 2340131.16 (17) 2298922 04 2340136 21 PC (18) 2298951.57 2340180 71 TAII (19) 2298910.47 2340145.86 CR (20) 2298887.74 2340145.52 CR (21) 2298895.93 2340153.56 CR (22) TAIL 2298951.67 2340208.13 (23) 2340168.25 CR 2298888 55 (24) 2298865.81 2340167 91 PC (25) 2298869.59 2340171.08 PC (26) 2298939.88 2340220.98 TAIL (27) 2298866.62 2340190.64 CR (28) CR 2298846.43 2340211.33 (29) 2298873.72 2340239.96 CR (30) 2298881.10 2340218.49 CR (31) 2298859.26 2340212.16 PC (32) 2298890.86 2340213.72 PC (33) 2298924.56 2340235.77 TAIL

## TABLE ABBREVIATIONS:

 CR
 = CENTER OF RADIUS
 TAIL
 = CENTER OF TAIL PILE

 PC
 = POINT OF CURVATURE
 X
 = CENTER OF X-PILE

 PT
 = POINT OF TANGENCY
 WYE
 = CENTER OF WYE PILE

WYE PILE SURVEY POINT



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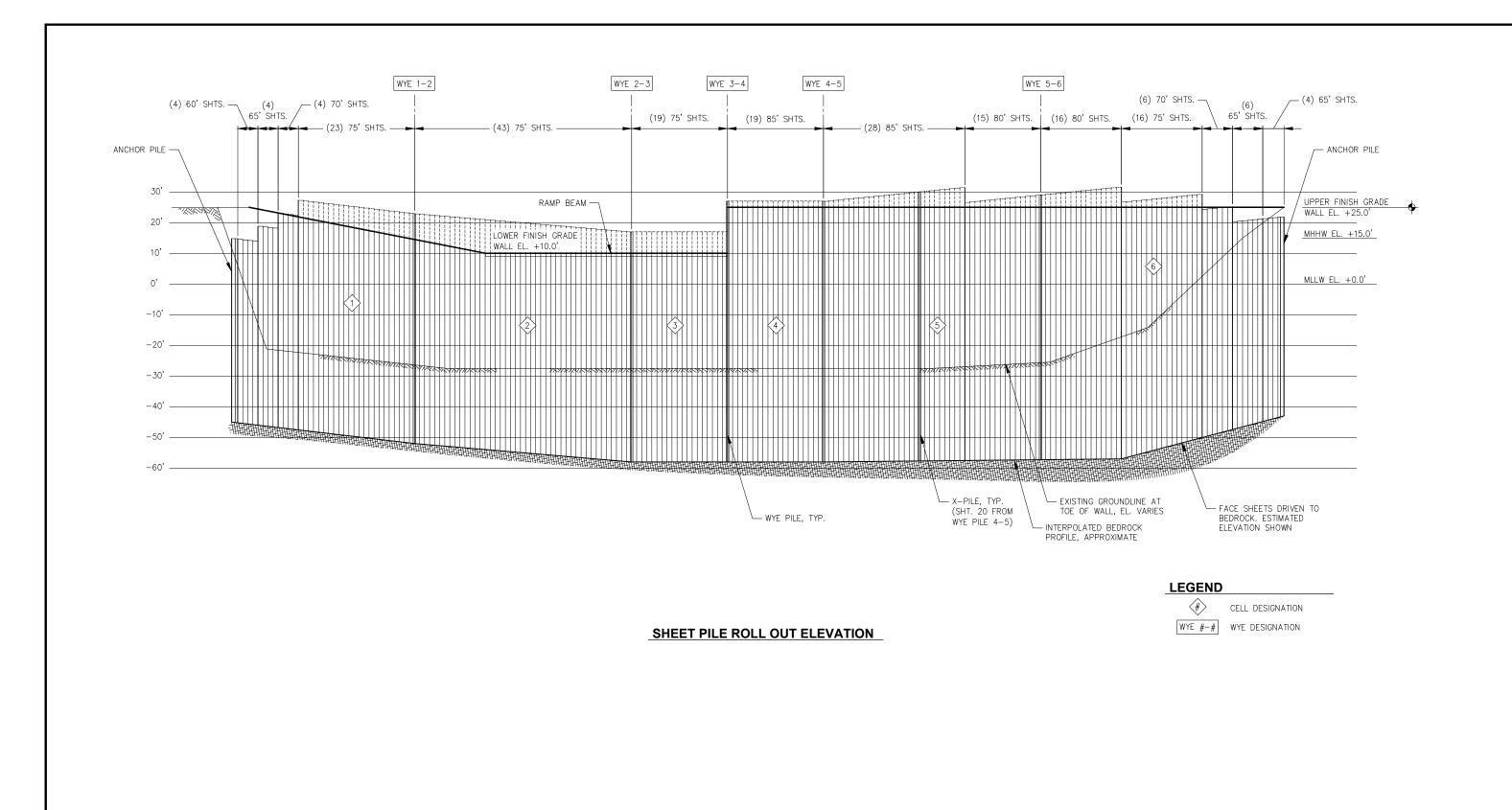
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# CITY OF HOONAH SHEET PILE BULKHEAD DOCK

SHEET TITLE:

SHEET PILE LAYOUT PLAN





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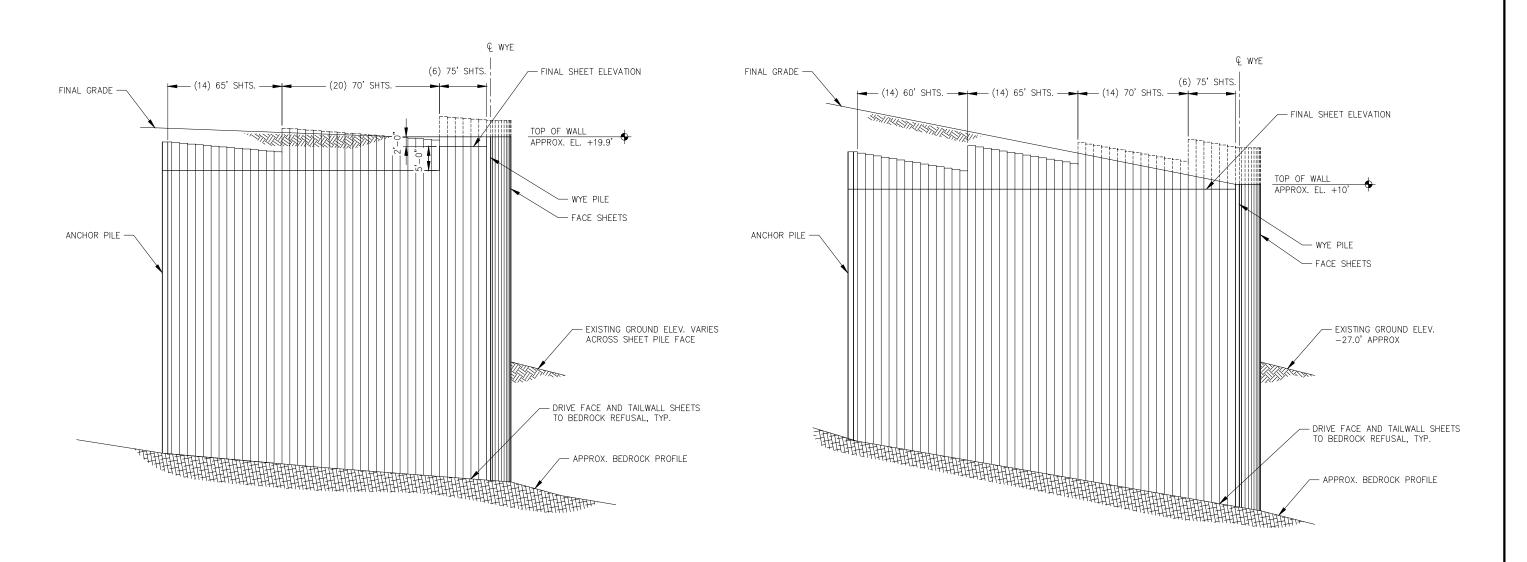
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## **CITY OF HOONAH** SHEET PILE BULKHEAD DOCK

SHEET PILE ROLL OUT ELEVATION



## **TAILWALL 1-2 SECTION**

NOTES:

1. SHEET PILES SHOWN AT DRIVEN LENGTH. PILES EXTENSION ABOVE FINAL ELEVATION TO BE CUT-OFF.

## **TAILWALL 2-3 SECTION**

NOTES:

1. SHEET PILES SHOWN AT DRIVEN LENGTH. PILES EXTENSION ABOVE FINAL ELEVATION TO BE CUT-OFF.



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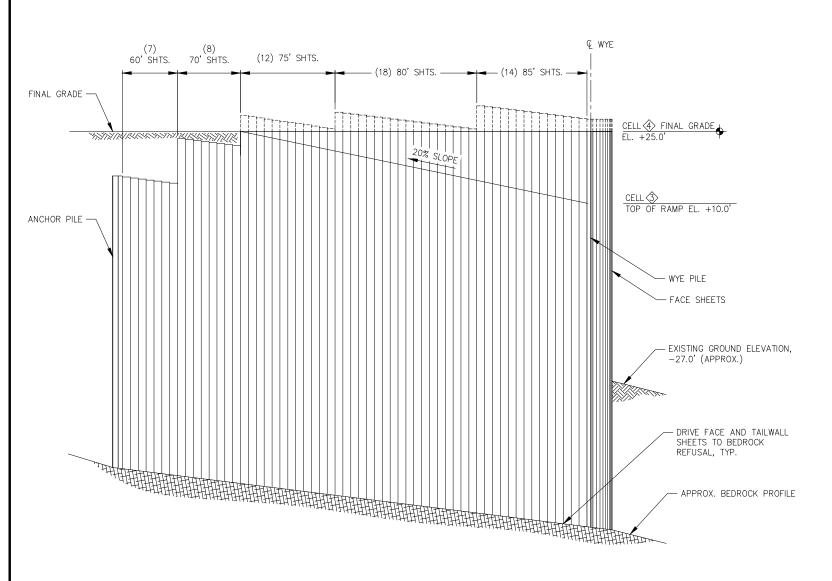


## **CITY OF HOONAH** SHEET PILE BULKHEAD DOCK

SHEET TITLE:

**TAILWALL SECTIONS** 

**S2.03** 



# (6) (6) 65' SHTS. 70' SHTS. (6) 80' SHTS. **◄** (16) 60' SHTS. — — (16) 75' SHTS. — FINAL GRADE -FINAL GRADE • ANCHOR PILE -- WYE PILE - FACE SHEETS - EXISTING GROUND ELEVATION, -27.0' (APPROX.) DRIVE FACE AND TAILWALL SHEETS TO BEDROCK REFUSAL, TYP. APPROX. BEDROCK PROFILE

## **TAILWALL 3-4 SECTION**

NOTES:

1. SHEET PILES SHOWN AT DRIVEN LENGTH. PILES EXTENSION ABOVE FINAL ELEVATION TO BE CUT-OFF.

## **TAILWALL 4-5 SECTION**

NOTES:

1. SHEET PILES SHOWN AT DRIVEN LENGTH. PILES EXTENSION ABOVE FINAL ELEVATION TO BE CUT-OFF.



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SUME 10

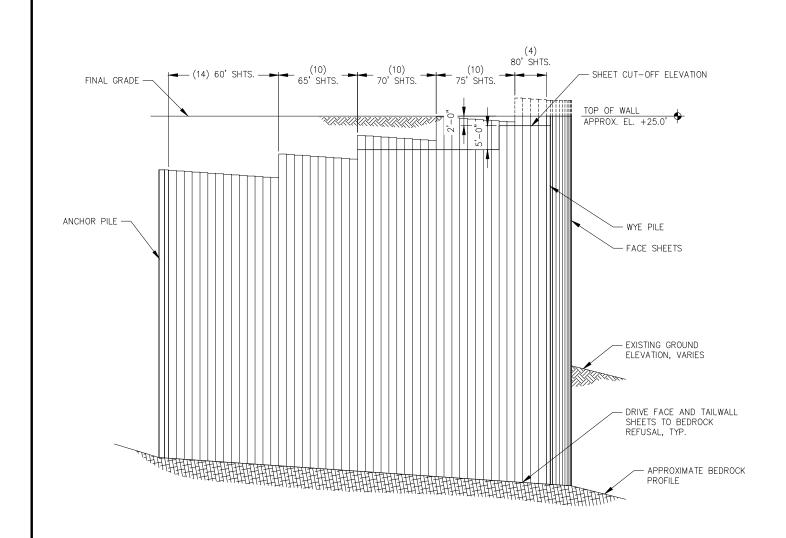


## **CITY OF HOONAH** SHEET PILE BULKHEAD DOCK

SHEET TITLE:

**TAILWALL SECTIONS** 

**S2.04** 



## **TAILWALL 5-6 SECTION**

NOTES:

1. SHEET PILES SHOWN AT DRIVEN
LENGTH. PILES EXTENSION ABOVE
FINAL ELEVATION TO BE CUT-OFF.



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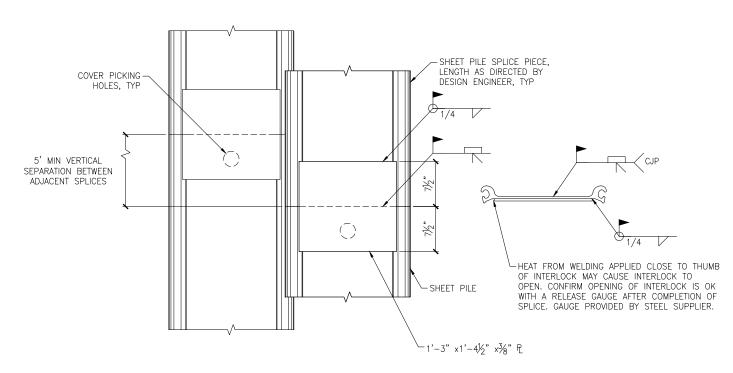
## CITY OF HOONAH SHEET PILE BULKHEAD DOCK

SHEET TITLE:

TAILWALL SECTIONS

										S	HEET	PILE	MATE	ERIAL	TAKE	OFF					
	MEMBER TYPE:		F.	ACE SHE	ET - PS	31			TAIL	WALL SHI	EET - P	S27.5		WYE P	PILE (3/2	PS31)	X PILE (2 PS31)	ANCHO	R PILE (1/2	PS31 + H	P14x73)
	SHEET LENGTH:	85	80	75	70	65	60	85	80	75	70	65	60	85	80	75	85	65	60	50	40
	1			23	4	4	4												1		
5	1-2									6	20	14				1		1			
DESIGNA IION	2			43																	
2	2-3									6	14	14	14			1		1			
3	3			19																	
	3-4							14	18	12	4	4	7	1					1		
≨∣	4	19																			
AILWALL	4-5								6	26	6	6	16	1					1		
5	5	28	15														1				
- 1	5-6								4	10	10	10	14		1				1		
븴	6		16	16	6	6	4		6									1			
Ī	TOTAL QUANTITY	47	31	101	10	10	8	14	34	60	34	48	51	2	1	2		2	5	0	0

NOTES:
SHEET LENGTH TABULATED. IS FINAL SHEET LENGTH REQUIRED MAXIMUM SUPPLY
LENGTH IS 70'. SHEETS GREATER THAN 70' WILL REQUIRE SPLICE PER DRIVEN SPLICE DETAIL AFTER FIRST SHEET SECTION HAS BEEN INSTALLED.



- PILE SPLICES WILL BE AT LEAST 5' APART IN ELEVATION FROM ADJOINING PILE
- ENDS OF PILE WILL BE SQUARE BEFORE SPLICING.
  PILE INTERLOCKS WILL BE STRAIGHT AND FREE SLIDING
  WELDERS WILL BE QUALIFIED ACCORDANCE TO AWS D1.1
- SPLICES SHALL BE NO GREATER THAN 15' FROM THE TOP DESIGN ELEVATION.
- PLATE WELDED ON ONE SIDE OF SHEET AND BUTT WELD ON THE OPPOSITE SIDE. BUTT WELD WILL BE ON THE WEB ONLY, NO INTERLOCK WELDING.
- 8. REPAIR ALL COATING AS REQ'D

## SHEET PILE SPLICE FOR DRIVEN SPLICES



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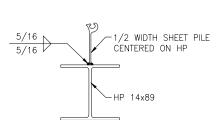


## CITY OF HOONAH SHEET PILE BULKHEAD DOCK

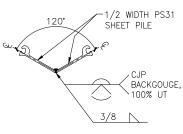
SHEET TITLE:

SHEET PILE DETAILS

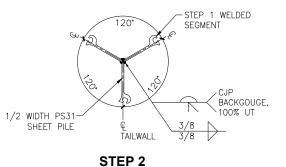




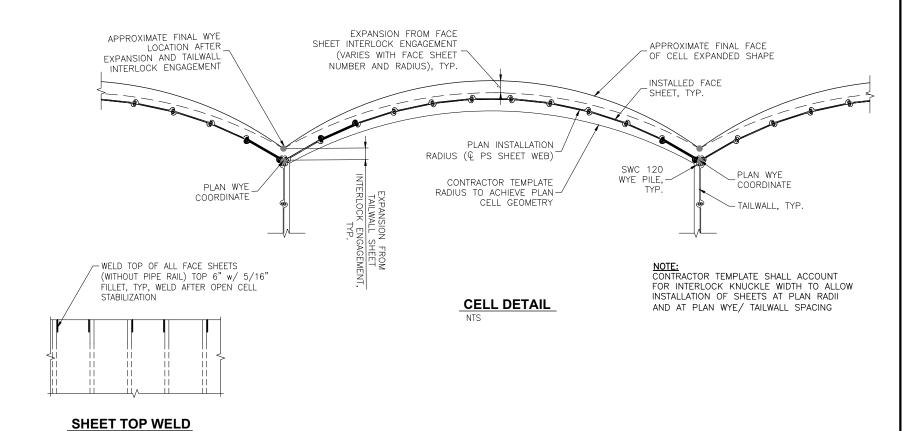


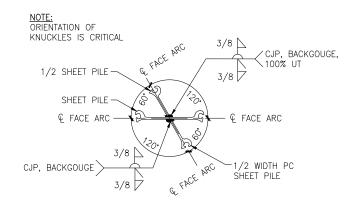


STEP 1

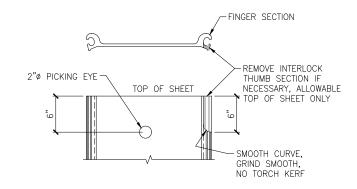


WELDED WYE FABRICATION





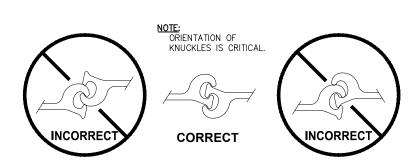
X- PILE SECTION



## SHEET PICKING/SNIPE DETAIL

NIS

NOTE: CONTRACTOR TO SUPPLY ADDITION SHEET PILE LENGTH AS NEED TO ENSURE PICKING EYE IS REMOVED DURING SHEET CUT-OFF



## SHEET PILE INTERLOCK TYPICAL DETAIL



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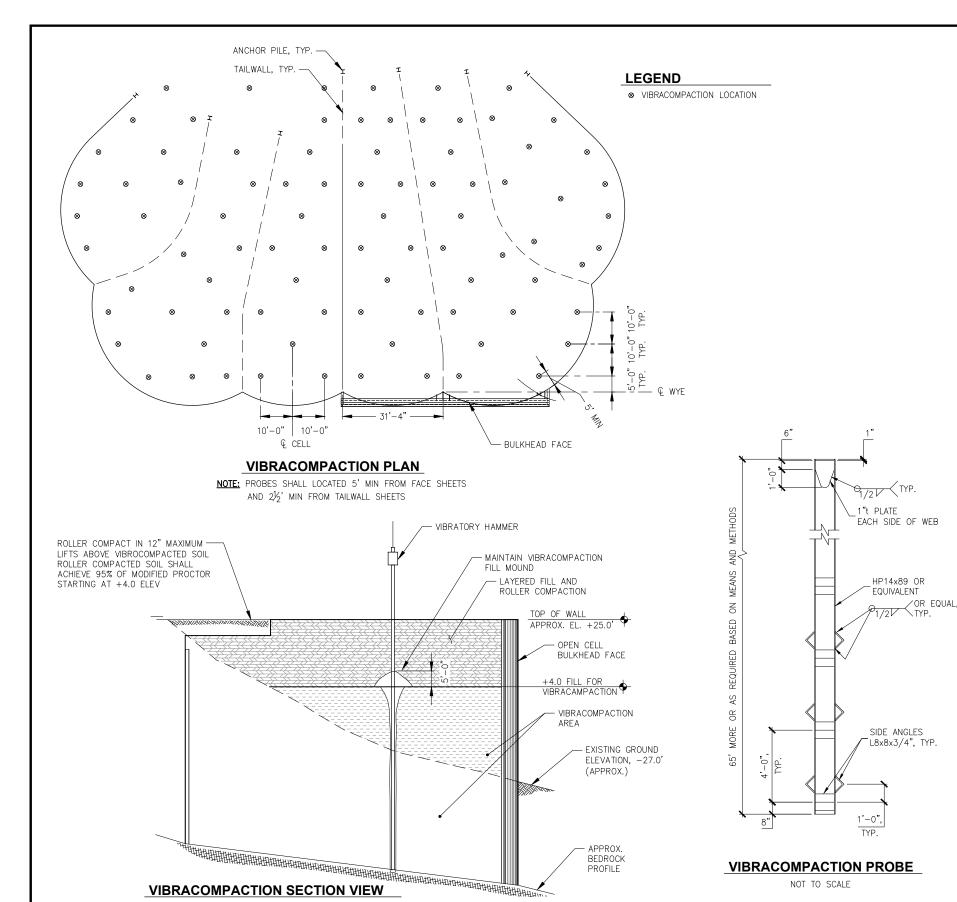
NTS



# CITY OF HOONAH SHEET PILE BULKHEAD DOCK

SHEET TITLE:

SHEET PILE DETAILS



## FILL PLACEMENT & COMPACTION NOTES:

THE CONTRACTOR SHALL PROVIDE CONSISTENT FILLING AND COMPACTING PROCEDURES THAT MINIMIZE DIFFERENTIAL CELL MOVEMENT. AT A MINIMUM THE FOLLOWING REQUIREMENTS SHALL BE FOLLOWED.

- FILL SHALL ONLY BE PLACED IN A CELL AFTER ALL SHEET PILES WITHIN A CELL HAVE BEEN INSTALLED TO TIP ELEVATION.
- FILL ELEVATION BETWEEN ADJACENT CELLS SHALL NOT DIFFER BY MORE THAN 5 FEET AT ANY TIME DURING CONSTRUCTION.
- FILL PLACEMENT SHALL BE PERFORMED UTILIZING MEANS & METHODS THAT MAINTAIN SAFE STABLE SUPPORT CONDITIONS FOR EQUIPMENT AND FIELD PERSONNEL
- WITHIN INTERTIDAL ZONE, DO NOT PLACE MORE MATERIAL THAN CAN BE COMPACTED WITHIN A TIDE CYCLE. MATERIAL MAY BE REINCORPORATED INTO WORK ONCE MOISTURE LEVELS RETURN TO LIMITS NECESSARY FOR EFFECTIVE COMPACTION.

## VIBRACOMPACTION PROCEDURE:

- MOUND VIBRACOMPACTION FILL OVER PROBE AT EACH LOCATION AND MAINTAIN 5 FOOT HIGH MOUND OVER THE GRADE. VIBRACOMPACTION FILL IS ESTIMATED TO BE 5 CUBIC YARDS PER HOLE.
- ADVANCE PROBE AT RESONANT FREQUENCY (APPROXIMATELY 15 Hz) TO FULL PROBE LENGTH OR REFUSAL. RESONANT FREQUENCY SHALL BE CONFIRMED BASED ON VISUAL OBSERVATION OF GROUND MOTION BY THE CONTRACTOR AND ENGINEER. REFUSAL SHALL BE CONSIDERED WHEN PROBE SLOWS TO 30 SECONDS PER FOOT FOR THE LAST FOOT.
- RETRACT PROBE TO THE SURFACE
- ALLOW SOIL TO 'REST' FOR 2 MINUTES.
- ADVANCE PROBE AS IN 2.
- RETRACT PROBE TO ONE-HALF THE DISTANCE TO THE SURFACE.
- ADVANCE PROBE AS IN 2.
- REMOVE PROBE, FILL DEPRESSIONS WITH GRANULAR FILL AND PROOF ROLL SURFACE WITH A 10 TON MINIMUM VIBRATORY ROLLER
- REMOVE EXCESS VIBRACOMPACTION FILL AND RELOCATE MATERIAL TO NEXT PROBE.
- 10. LAYER COMPACT FILL ABOVE VIBRACOMPACTED FILLS.

THE VIBRATORY HAMMER UTILIZED FOR VIBRACOMPACTION SHALL HAVE A MINIMUM ECCENTRIC MOMENT OF 4,400 Ib-in AND A MINIMUM SUSPENDED WEIGHT OF 13,600 LBS, SUCH AS ON APE 200, OR ENGINEER APPROVED EQUAL. CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING VIBRATORY HAMMER FOR ACHIEVING REQUIRED PENETRATION. PROBE SHALL BE CLEARLY NUMBERED IN 5-FOOT INCREMENTS, TO ENABLE MEASUREMENT OF PENETRATION. EQUIPMENT SHALL PROVIDE VIBRATOR FREQUENCY AND ENERGY MONITORING GAUGES. PROBING LOCATIONS SHALL BE MARKED IN FIELD, TO THE NEAREST 2-FEET, AS SHOWN IN DIAGRAM.

## LAYER PLACEMENT & COMPACTION PROCEDURE

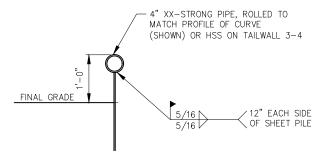
## LAYER PLACEMENT

- PLACE FILL SUCH THAT THE LANDING EDGE AND SIDE SLOPES ARE WITHIN STABLE LIMITS UNDER THAT ANTICIPATED FILL AND EQUIPMENT LOADS.

  DISTRIBUTE & GRADE FILL MATERIALS EVENLY IN LIFTS BEGINNING AT THE ANCHOR PILES.
- FILL WITHIN & ABOVE INTERTIDAL ZONE SHALL BE PLACED IN LEVEL LIFTS NOT EXCEEDING 12 INCHES. MAXIMUM
- DO NOT IMPART EQUIPMENT LOADS INTO THE FACE SHEET PILES DURING FILL PLACEMENT.

## 2. LAYER COMPACTION

- A. LAYER COMPACTION WILL BE REQUIRED AT +4 FOOT, MILW.
  B. COMPACTOR SHALL HAVE A MINIMUM 10 TON STATIC WEIGHT AND MINIMUM OF 6 PASSES PER LIFT TO A MINIMUM DENSITY OF 90 PERCENT PER A MODIFIED PROCTOR (ASTM D1557) COMPACT LAYER FROM THE ANCHOR PILE AND WORK TOWARDS THE FACE.





FIELD MEASURE PROFILE TO BULKHEAD, PRIOR TO ROLLING 4" XX-STRONG PIPE BULLRAIL.

2. LOCATE SPLICES OVER SUPPORTS, SPLICES SHALL BE COMPLETE JOINT PENETRATION WELDS



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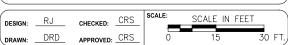
VIBRACOMPACTION SECTION VIEW NOT TO SCALE

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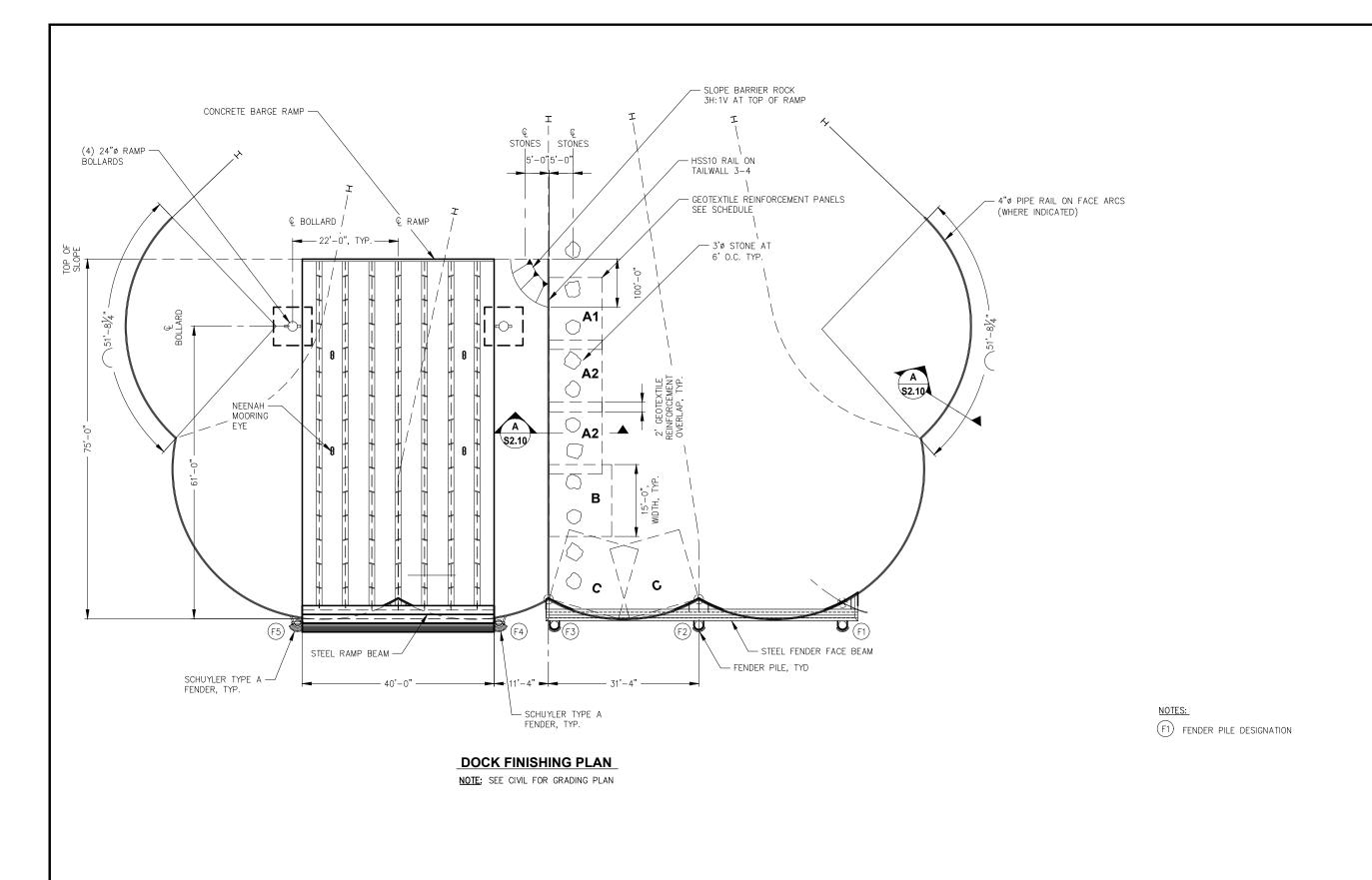
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## **CITY OF HOONAH** SHEET PILE BULKHEAD DOCK

VIBRACOMPACTION AND BACKFILL PLAN





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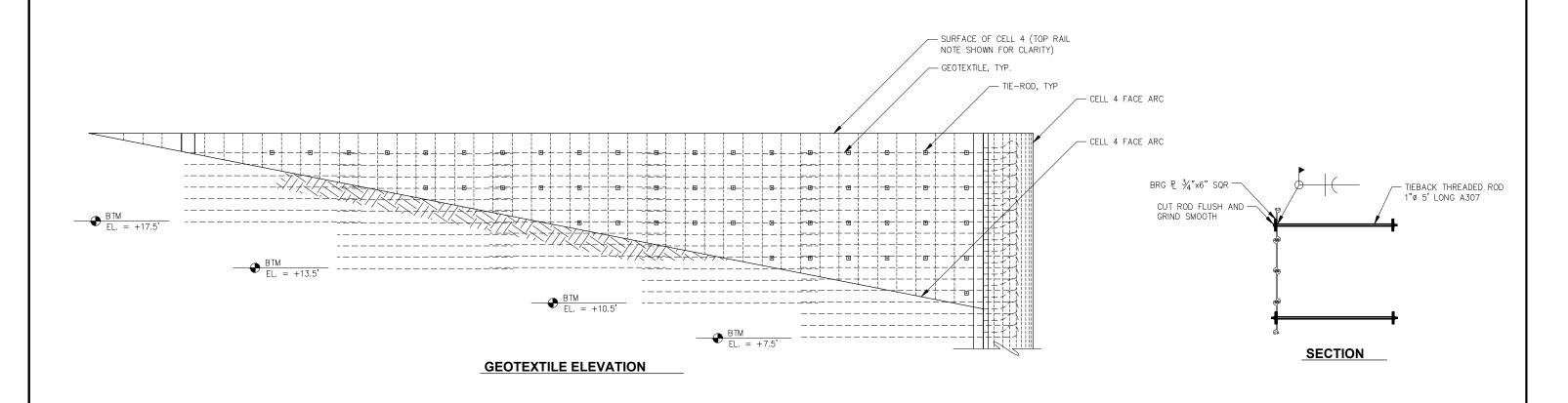
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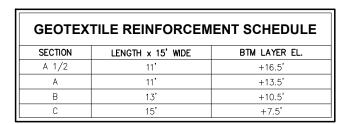


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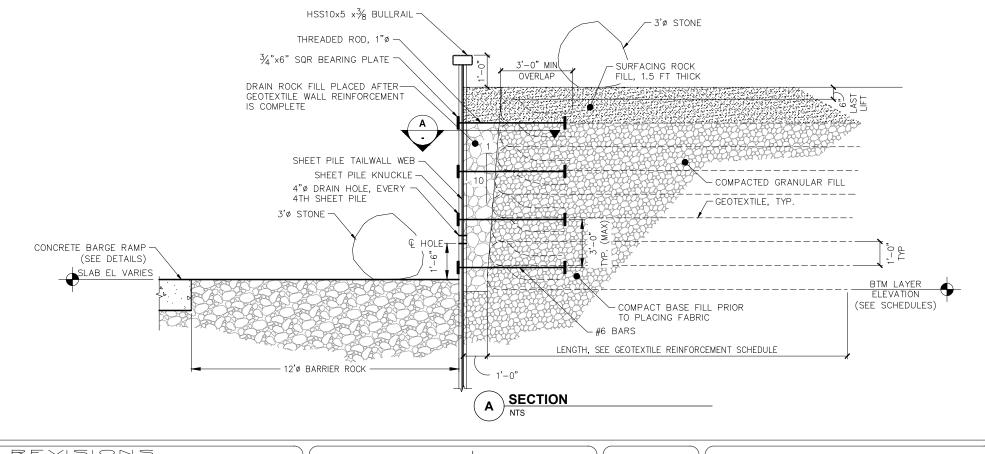
SHEET TITLE:

DOCK FINISHING PLAN





- PLACE GEOTEXTILE IN CONTINUOUS LONGITUDINAL STRIPS IN THE DIRECTION PERPENDICULAR TO THE REINFORCED FACE. LAP EDGES 12" EACH SIDE.
- PULL GEOTEXTILE TIGHT UNTIL SMOOTH & TAUT. ENSURE GEOTEXTILE IS FREE OF FOLDS OR WRINKLES. PLACE & COMPACT TO ONE—HALF LIFT HEIGHT.
- PLACE HEAD OF FILL NEAR REINFORCED FACE SLIGHTLY GREATER THAN LIFT HEIGHT.
- FOLD GEOTEXTILE OVER HEAD, PULL GEOTEXTILE UNTIL TIGHT AND FREE OF FOLDS. AND WRINKLES.
- PLACE AND COMPACT FILL TO FULL LIFT HEIGHT. PLACE FILL FROM RESTRAINED FACE AWAY.
- PLACE TIE ROD BETWEEN GEOTEXTILE LAYERS.
- REPEAT GEOTEXTILE INSTALLATION ABOVE TIE ROD.
- PLACE A MINIMUM OF 3 GEOTEXTILE LAYERS WITH 3' OF COMPACTED GRANULAR FILL ABOVE TIE ROD
- PLACE DRAIN ROCK BELOW TIE ROD UP TO TIE ROD ELEVATION.
- 11. REPEAT STEPS 1-10 UNTIL WALL IS COMPLETE.
- 12. INSTALL HSS BULLRAIL
- 13. PLACE SURFACING FILL AND COMPACT.





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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



DESIGN: \_\_RJ\_\_\_ CHECKED: \_\_CRS

APPROVED: CRS

DRAWN: DRD

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SCALE IN FEET

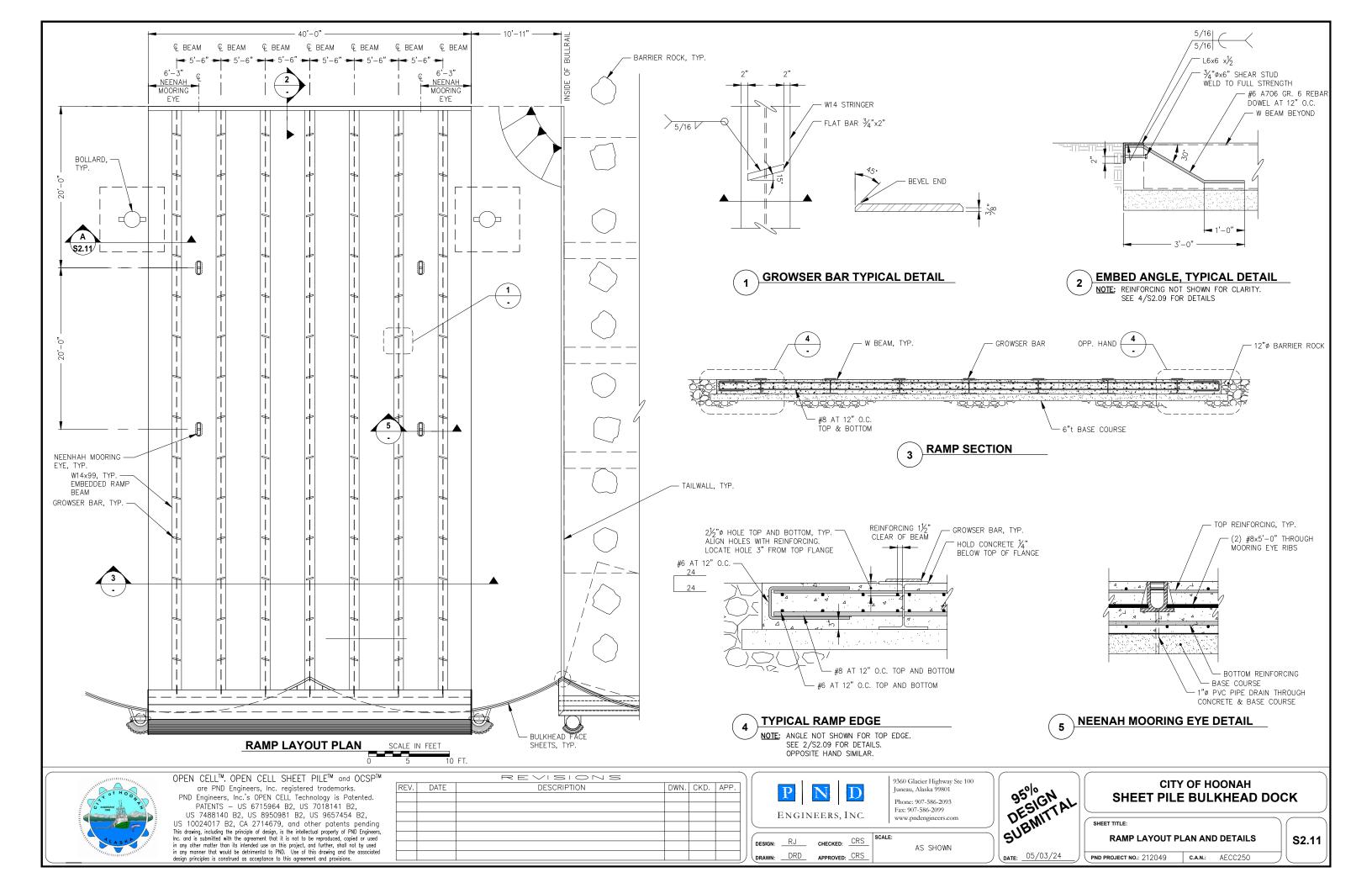
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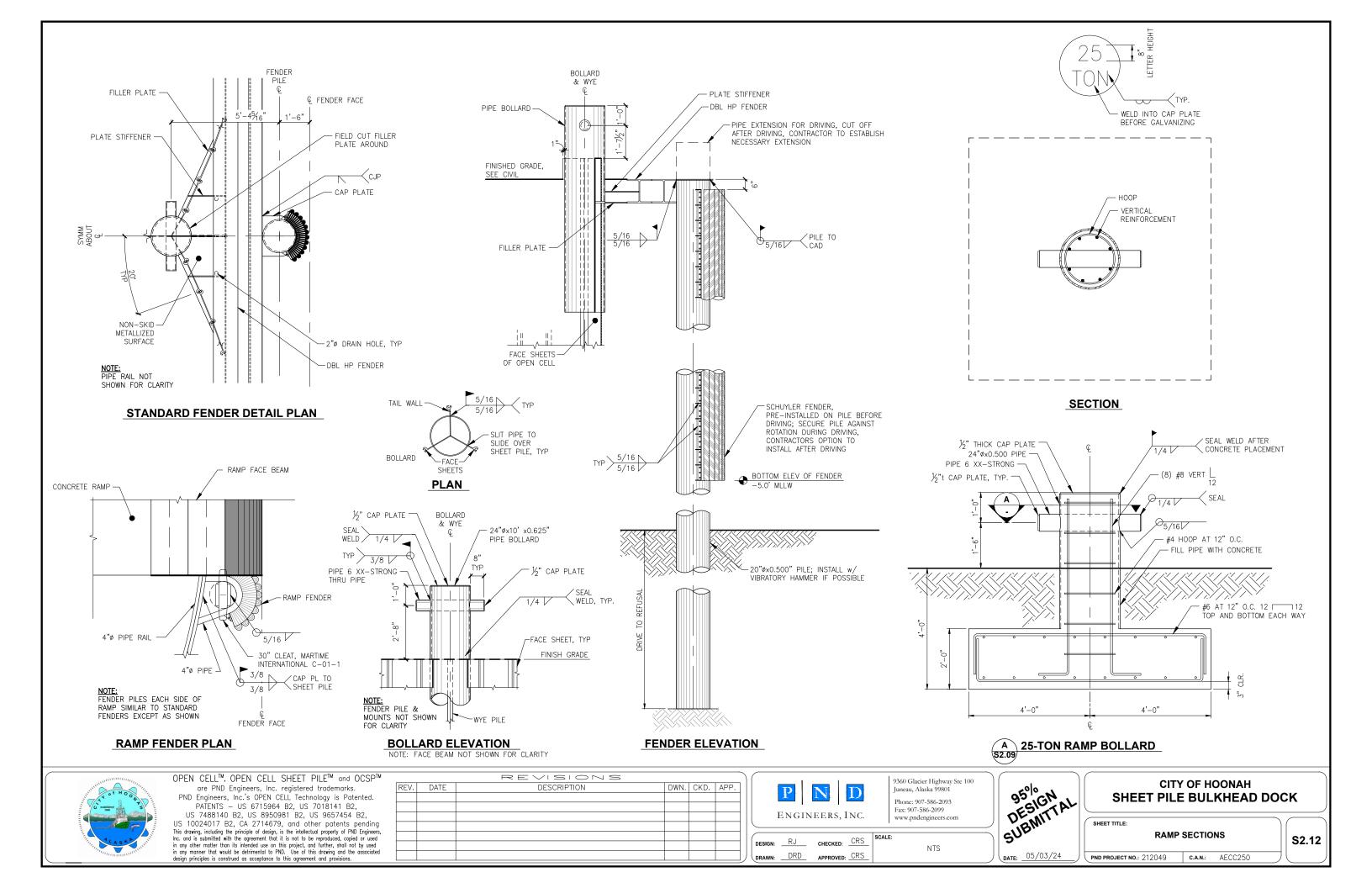


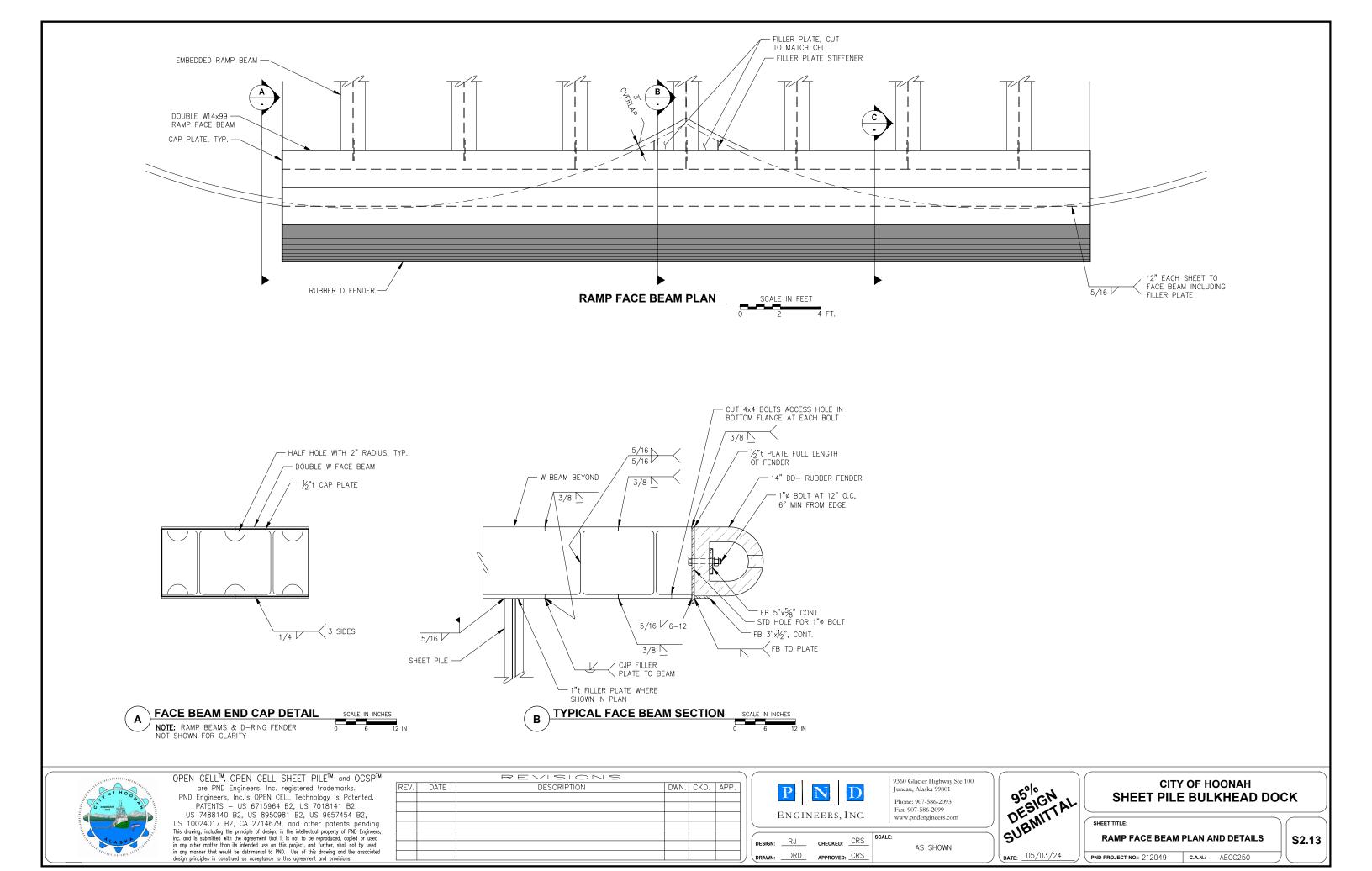
## CITY OF HOONAH SHEET PILE BULKHEAD DOCK

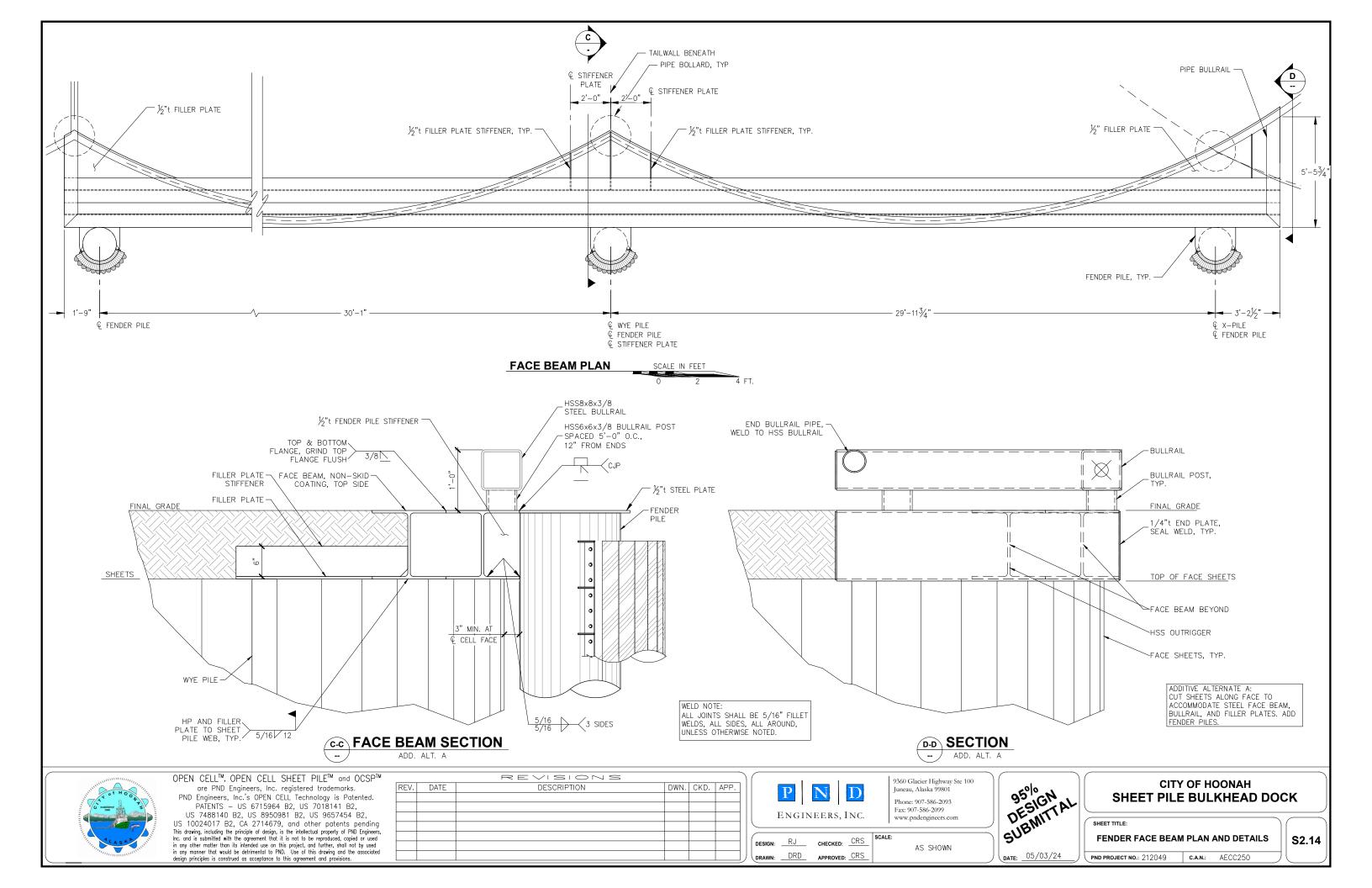
GEOTEXTILE ELEVATION **SECTION AND DETAILS** 

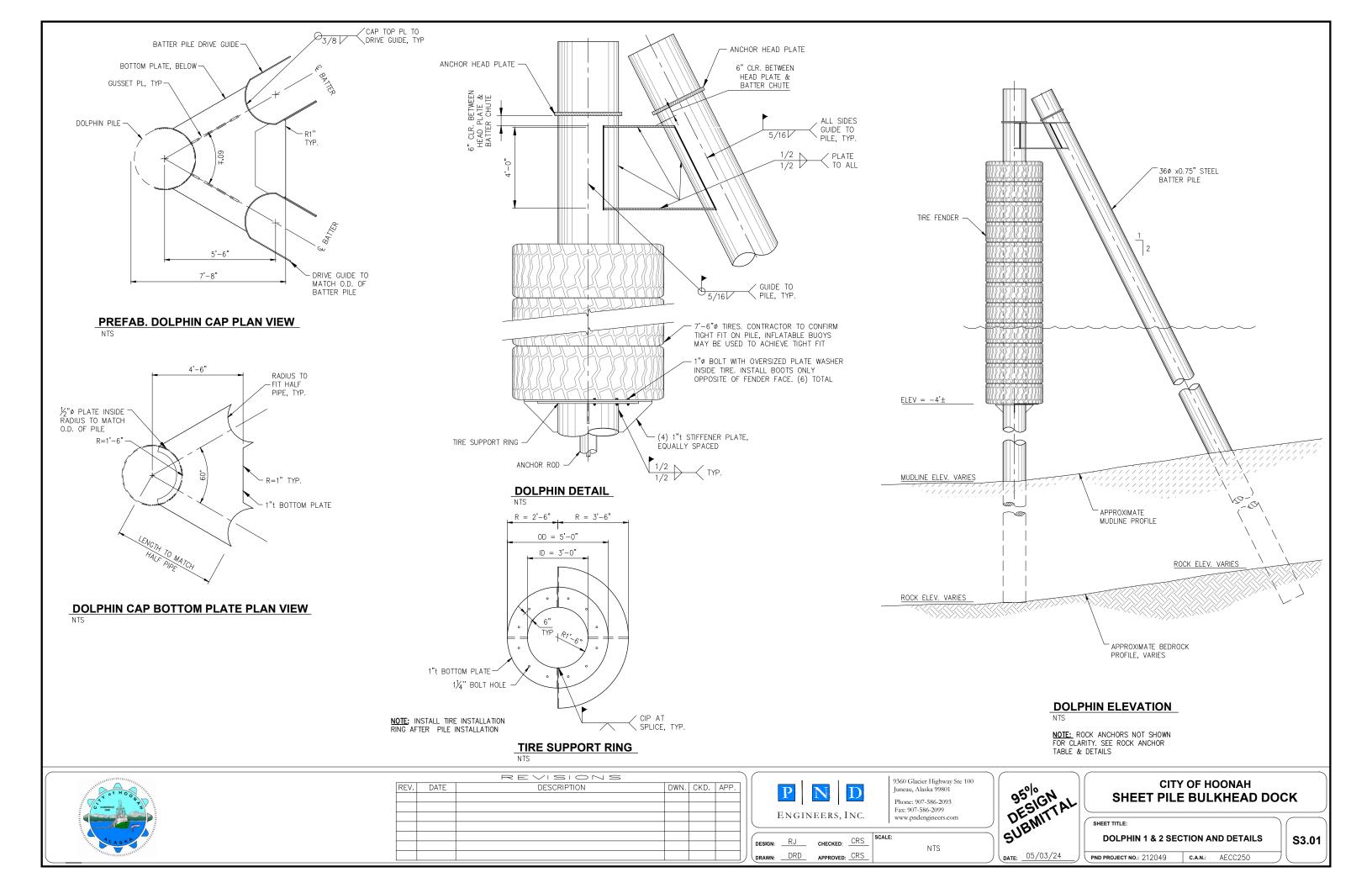
C.A.N.: AECC250 PND PROJECT NO.: 212049

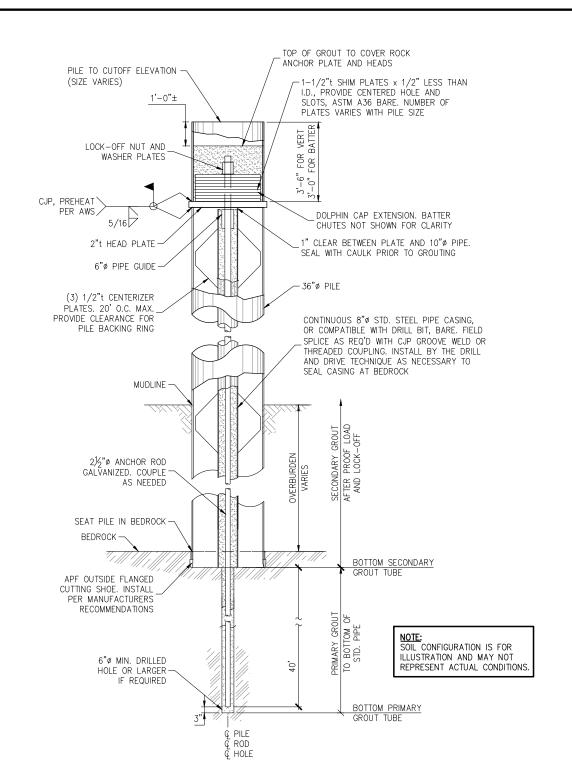






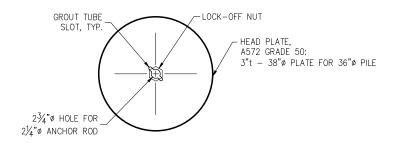




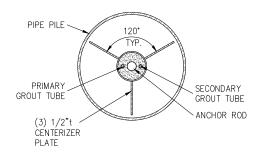


## ROCK ANCHOR DETAIL

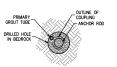
GROUT TUBES NOT SHOWN FOR CLARITY PILE SHOWN VERTICAL FOR CLARITY



## **HEAD PLATE**



## SECTION A-A



## SECTION B-B

### PILE SCHEDULE MUDLINE ELEV. ESTIMATE ROCK ELEV. SUPPLY LENGTH COMPRESSION LOCATION SIZE PILE TIP TEST LOAD LOCK OFF LOAD PILE LOAD (KIP) MLLW (FT) MLLW (FT) TENSION (KIP) (FT) OPEN / RA 36"øx0.75" 620 545 -.35-65 120 DOLPHIN 1 1A BATT 30"øx0.75" OPEN -32-62 140 1B BATT 30"øx0.75" OPEN -38 -72140 2 VERT 36"øx0.75" OPEN / RA 620 545 -26 -56110 DOLPHIN 2 2A BATT 30"øx0.75" OPEN / RA 620 545 -20 -50120 2B BATT 30"øx0.75" OPEN / RA 620 545 -20 -50 120 OPEN / RA 110 3 VERT 36"øx0.75" 620 545 -24 -54OPEN / RA -18 DOLPHIN 3 3A BATT 30"øx0.75" 620 545 -48 120 3B BATT 30"øx0.75" OPEN / RA 620 545 -18 -48 120 20"øx0.500" OPEN -20 -57 100 2F 20"øx0.500" OPEN -27 -57 100 **FENDER** 3F 20"øx0.500" OPEN -27 -57 100 4F 16"øx0.500" OPFN -27-57100 5F OPFN -27 -57 100 16"øx10.500"





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DATE: 05/0



ROCK ANCHOR NOTES:

1. THE INTENT OF THE ROCK ANCHOR IS TO PROVIDE TENSION AND SHEAR CAPACITY TO A PILE WHERE THERE IS INSUFFICIENT OVERBURDEN TO ATTAIN

2. GROUT CEMENT SHALL BE TYPE II AND HAVE A MINIMUM 28-DAY UNCONFINED

3. PRIMARY GROUT SHALL HAVE REQUIRED COMPRESSIVE CAPACITY OF 3,000 PSI

4. PRIOR TO SECONDARY GROUT PLACEMENT THE 2½"Ø ANCHOR ROD SHALL BE PROOF LOADED TO 600 KIPS AND HELD ONE HOUR. REMOVE LOAD. RELOAD TO

 ALL HEAD PLATES SHALL BE 100% UT TESTED BY STRAIGHT METHOD PER AWS D1.1. ANY DISCONTINUITY FOUND SHALL BE CONSIDERED REJECTABLE AND THAT

8. WITH ENGINEERS APPROVAL CONTRACTOR MAY PROVIDE ALTERNATE METHOD FOR CENTRALIZING PIPE CASING.

COMPRESSION STRENGTH OF 6,000 PSI. GROUT MAY BE NEAT OR HAVE

THE PILE TENSION AND SHEAR CAPACITY LISTED.

545 KIPS AND LOCK OFF. PLACE SECONDARY GROUT.

36"ø PILES: (9) 34"ø

SPRAY-METALIZED AFTER INSTALLATION.

PORTION OF PLATE SHALL NOT BE USED IN HEAD PLATES.

7. HEAD PLATES MAY BE BARE AND HOT-STICK GALVANIZED OR

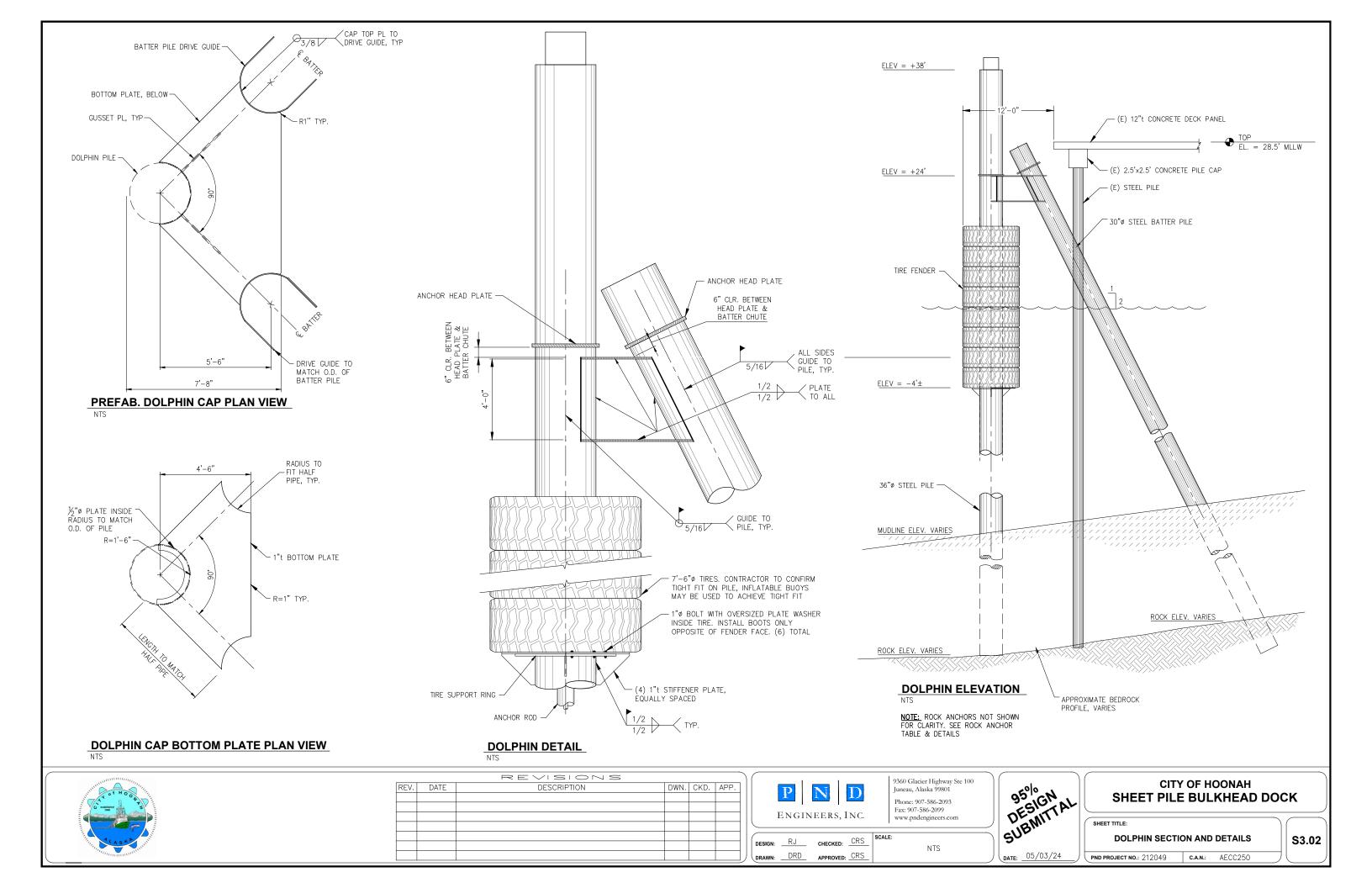
6. NUMBER AND DIMENSION OF SHIM PLATES SHALL BE AS FOLLOWS:

# CITY OF HOONAH SHEET PILE BULKHEAD DOCK

SHEET TITLE:

ROCK ANCHOR DETAILS

S3.03



# **LEGEND**

HIGH MAST LUMINAIRES

HANDHOLE

PEDESTAL WITH
(2) 50A, 208V, 3PH RECEPTACLES
(2) 30A, 120V, 1PH RECEPTACLES

CONDUCTORS NOT SHOWN WHERE ONLY

#12 NEUTRAL AND UNDERGROUND

CONDUCTOR ARE REQUIRED

\<u>\</u>

**GROUND ROD** 

HOME RUN

CONDUIT: 1/2" UON

UNGROUNDED CONDUCTORS

NEUTRAL: #10 WITH DOT

#12 OTHERWISE

GROUND CONDUCTOR

**ABBREVIATIONS** 

AFG ABOVE FINISHED GRADE

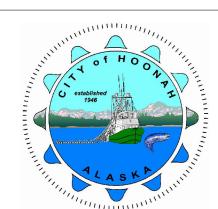
UG UNDERGROUND

WP WEATHERPROOF

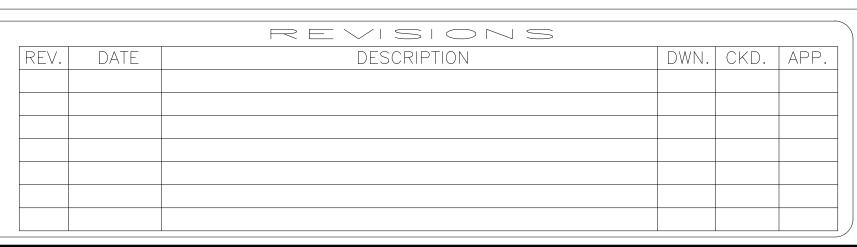
**SCOPE OF WORK** 

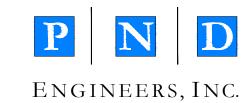
1. PROVIDE A NEW MUSCO LIGHT POLE WITH LED LUMINAIRES.

2. PROVIDE UNDERGROUND CONDUCTORS AND CONDUITS AS DESIGNED TO FEED THE NEW LIGHT POLE FROM THE EXISTING PANEL A AND TO INTEGRATE THE NEW LIGHT POLE WITH THE EXISTING LIGHTING CONTROLS.









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AS NOTED

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DRAWN:	JLC	APPROVED: BCH	



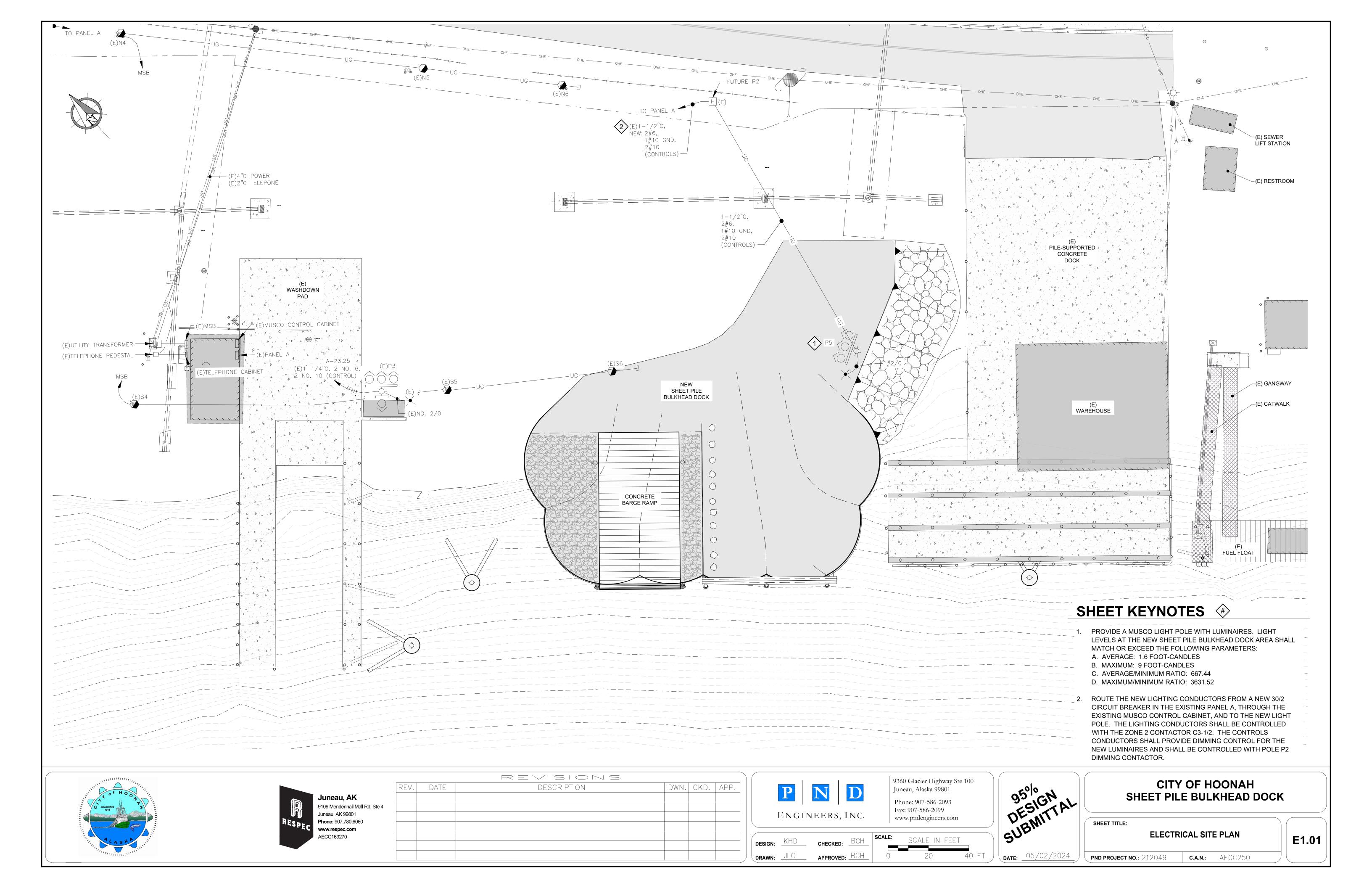
# CITY OF HOONAH SHEET PILE BULKHEAD DOCK

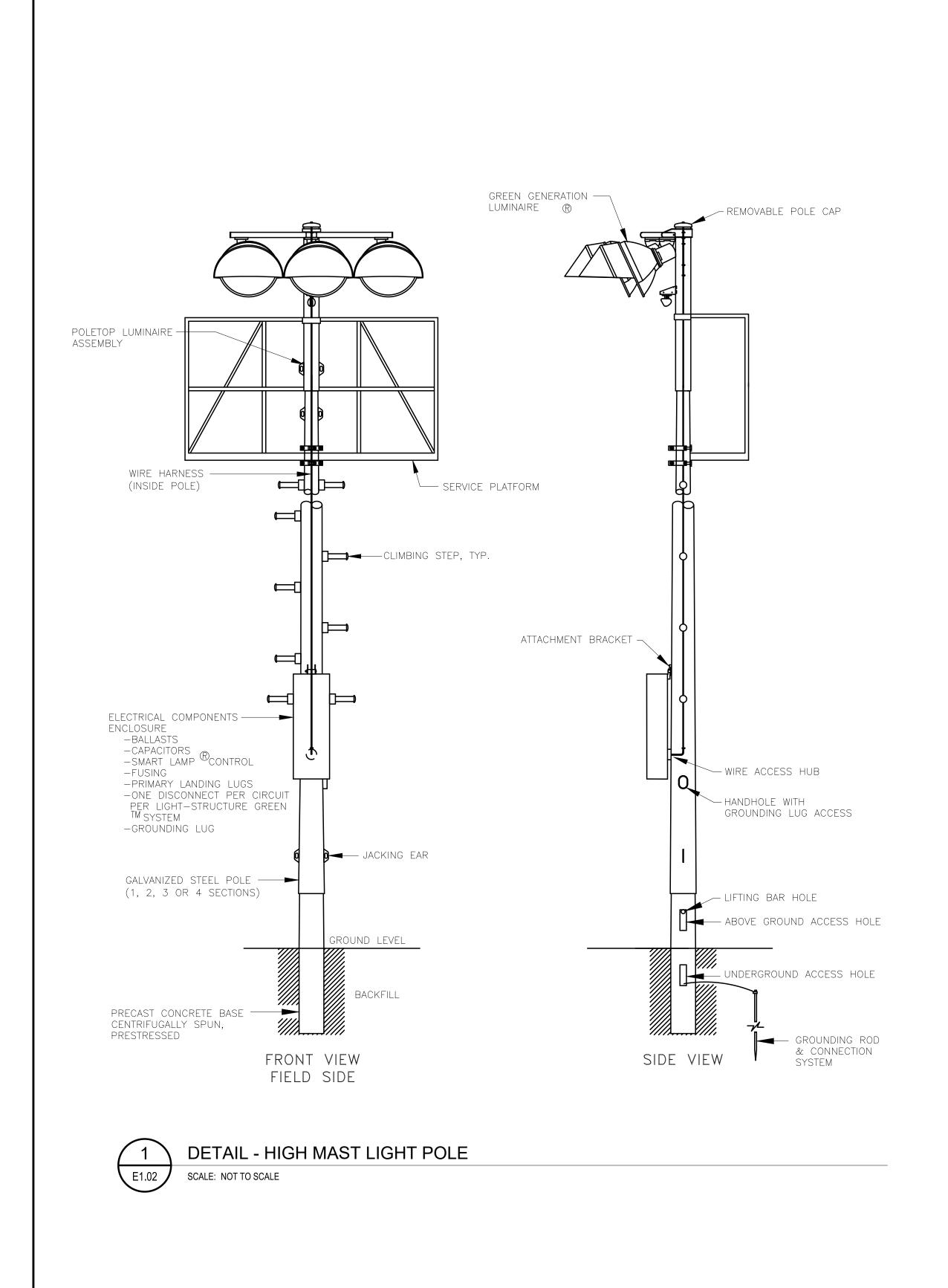
SHEET TITLE:

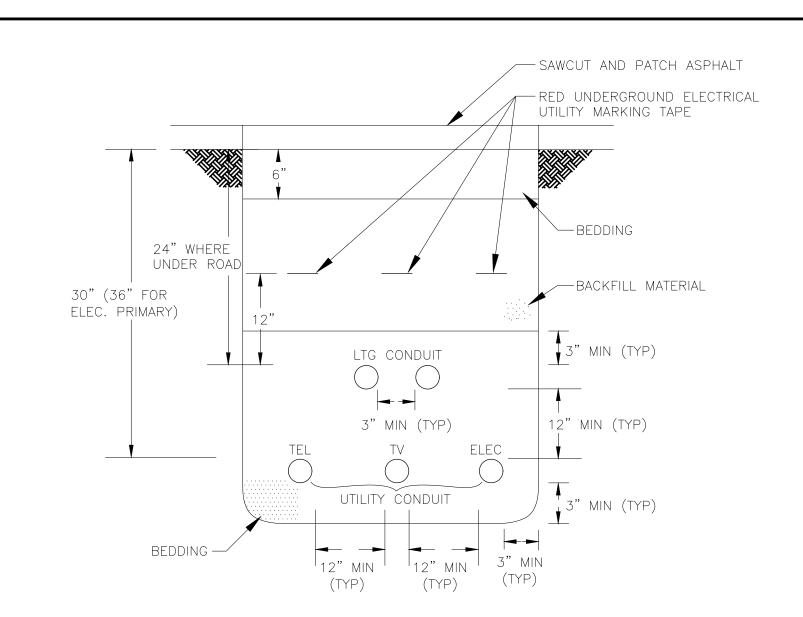
**ELECTRICAL LEGEND AND NOTES** 

**PND PROJECT NO.**: 212049 **C.A.N.**: AECC250

E1.00



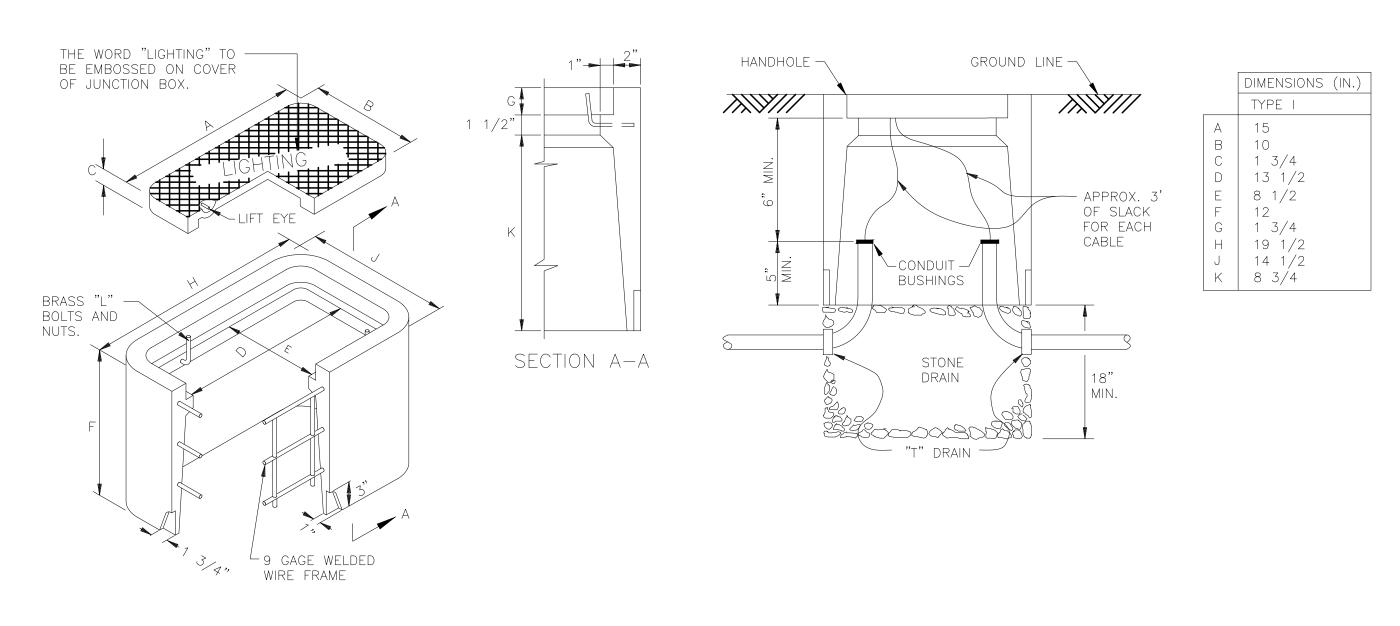




2 DET E1.02 SCALE: I

**DETAIL - TRENCH** 

SCALE: NOT TO SCALE



3 E1.02

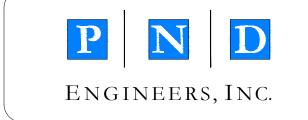
DETAIL - HANDHOLE

SCALE: NOT TO SCALE





			REVISIONS			
	REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.
AK						
all Mall Rd, Ste 4						
801 0.6060						
:om						



DRAWN: JLC

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APPROVED: BCH

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95 95 90	SIGN
DATE:	05/02/2024

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SHEET TITLE:

DETAILS

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