# CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE I

**VOLUME II of II** 

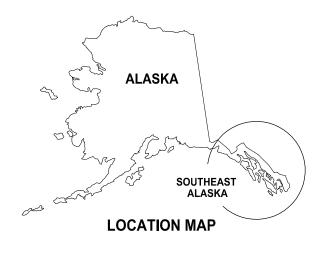
Contract No. DH12-002

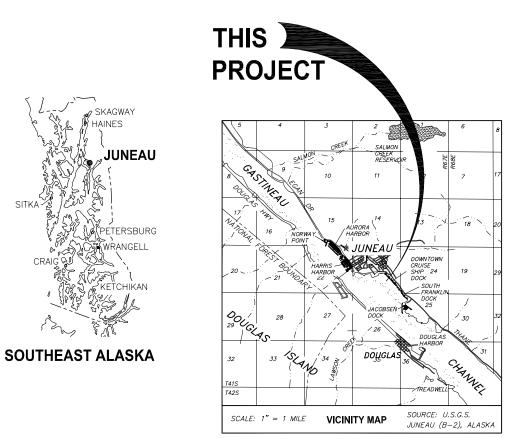


### CITY & BOROUGH OF JUNEAU, ALASKA

# CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE I

**CONTRACT NO. DH12-002** 





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PROJECT SCHEDULE	
DESCRIPTION	SCHEDULE
1. EARLIEST FIELD START	SEPT 27, 2012
2. SUBSTANTIAL COMPLETION-OWNER OCCUPY	MAY 1, 2013
3. FINAL COMPLETION OF ALL WORK UNDER THIS CONTRACT.	MAY 15, 2013



		REVISIONS			
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



DRAWN: PJD/NAM APPROVED: CRS

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

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## CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002

SHEET TITLE:

COVER SHEET, VICINITY MAPS, AND DRAWING INDEX

**PND PROJECT NO.:** 102081 **DWG. FILE:** 1.01.DWG

1.01

#### **GENERAL NOTES**

#### 1. EROSION AND POLLUTION CONTROL PLANS

THE CONTRACTOR SHALL DEVELOP AND SUBMIT FOR ENGINEER AND AGENCY REVIEW AND APPROVAL EROSION CONTROL PLAN. 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/PP) 'S 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 AS WELL AS ALL MATERIAL SITES, WASTE DISPOSAL SITES 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 FINISH GRADES AT PROJECT LIMITS AND WHERE REQUIRED TO MATCH AT EXISTING ROADS.
- 3. ALL EXISTING ASPHALT CONCRETE MATERIALS TO BE REMOVED SHALL BE DELIVERED TO THE CBJ ASPHALT STOCKPILE AT LEMON CREEK GRAVEL PIT. ALL OTHER REMOVED MATERIALS THAT ARE NOT SUITABLE FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF AT AN APPROVED 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! 586-1333

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

- 5. CBJ ENGINEERING STANDARD DETAILS BOOK DATED APRIL, 2011 IS MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
- 6. PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
- 7. 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.
- 8. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT

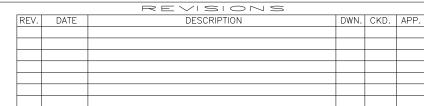
#### LEGEND

EXISTING_	THIS PROJECT	SURVEY CONTROL
0	0	BOLLARD CURB & GUTTER
<b>∵</b> FH	○ FH	ELECTRICAL VAULT COVER
	(5)	LAYOUT POINT  LIGHT POLE
SSMH SDMH	 <u>////</u>	SANITARY SEWER MANHOLE SAWCUT STORM DRAIN MANHOLE STORM DRAIN INLET SIGN
	TH-2€	TEST HOLE  TREE/VEGETATION  WATER VALVE  LAYOUT RADIUS
— E ¼ — — — — — — — — — — — — — — — — —	— E — — W — — — — — — — — — — — — — — —	ELECTRICAL (UNDERGROUND) WATER SANITARY SEWER COMMUNICATION (CABLE/TEL) STORM DRAIN FORCE MAIN FENCE

#### **ARRREVIATIONS**

		ш		ь	
· )	AT	H H	HORIZONTAL	<b>R</b> RAD	RADIUS
^	ASPESTOS CEMENT DIDE	Н&Т	HUB & TACK	RE	RIM ELEVATION
CP	ASPHALT CONCRETE PAVEMENT AMERICAN DISABILITIES ACT	HD	HEAVY DUTY	REF	REFERENCE
DA	AMERICAN DISABILITIES ACT	HDG	HOT-DIPPED GALVANIZED	REINF	REINFORCEMENT
IJ	ADJUSTABLE	HDPE	HIGH DENSITY POLYETHYLENE	REQD	REQUIRED
KDOT	ALASKA DEPARTMENT	HORIZ HSE	HORIZONTAL HOUSE	RET	RETAINING
& PF	OF TRANSPORATION AND	HT	HEIGHT	RO ROW	ROUGH OPENING
	PUBLIC FACILITIES	HWY.	HIGHWAY	ROW	RIGHT OF WAY
PF	ASSOCIATED PILE AND FITTING CORP.	HYD	FIRE HYDRANT	S	88474
	APPROXIMATE		1112 1113111111	S	SOUTH
TS	ALASKA TIDELANDS SURVEY		WORE BULLETER	SCHED	SCHEDULE STORM DRAIN
V	AIR RELEASE VALVE	ID	INSIDE DIAMETER	SD SDI	STORM DRAIN STORM DRAIN INLET STRUCTURE
		IE IN	INVERT ELEVATION	SD0	STORM DRAIN OUTLET STRUCTURE
-V	BUTTERFLY VALVE	IP	INCH IRON PIPE	SDR	STANDARD DIMENSION RATIO
_DG	BUILDING	ÏNCL	INCLUDE (D) (ING)	SF	SQUARE FOOT
OP	BEGINNING OF PROJECT	INSUL	INSULATE`(Ď)`(IOŃ)	SHLDR	SHOULDER
тм,вот	BOTTOM	INV	INVERT	SI	STREET INTERSECTION
		J		SPEC	SPECIFICATION (S)
&G	CURB & GUTTER	JB	JUNCTION BOX	SQ	SQUARE
3	CATCH BASIN			SSC	SANITARY SEWER CONNECTION STAINLESS STEEL, SANITARY SEY STORM DRAIN MANHOLE
	CAST IRON	JNT •	JUNCTION BOX	SS SDMH	STAINLESS STEEL, SANTIARY SEV
P	CAST-IN-PLACE	L	LENGTH	SSMH	SANITARY SEWER MANHOLE
J	CONTROL JOINT CENTER LINE	LBS	LENGTH	STA	STATION
_R	CLEAR	LBS	POUNDS	STD	STANDARD
MP	CORRUGATED METAL PIPE	LF LL	LINEAR FEET	STL	STEEL
0	CLEANOUT	LOC	LIVE LOAD LOCATION	STRG	STRONG
0.E.	CORPS OF ENGINEERS			SW	SIDEWALK
ONC.	CONCRETE	LS	LUMP SUM	SWR	SEWER
⊃	COMPLETE PENETRATION	М		SY	SQUARE YARD
PP PP	CORRUGATED POLYETHYLENE PIPE		MAXIMUM	SYM	SYMMETRICAL
OR	CORNER	ME	MATCH EXISTING	T	
SC	COUNTERSINK	MECH	MECHANICAL	t	THICK
TR Y	CENTER	MFR	MANUFACTURE (R)		
I	CUBIC YARD	MH	MANHOLE	T&B	TOP AND BOTTOM
		MJ	MECHANICAL JOINT	T&G TBC	TONGUE AND GROOVE TOP BACK OF CURB
CP	DISSIMILAR PIPE COUPLING	MI MIN	MALLEABLE IRON MINIMUM	TBD	TO BE DETERMINED
/DIA	DIAMETER	MLLW	MEAN LOWER LOW WATER	TBM	TEMPORARY BENCH MARK
BL	DOUBLE	MSF	1000 SOLIARE FEET	TD	TRENCH DRAIN
L	DEAD LOAD	MSE	MECHANICALLY STABILIZED EARTH	TFI	TELEPHONE
IP.	DUCTILE IRON PIPE	MTL	MATERIAL (S)	TEMP	TEMPERATURE, TEMPORARY
IM	DIMENSION	N	• •	TH	TEST HOLE
N TL	DOWN DETAIL	N N	NODTH	THK	THICK
	DETAIL	NFS	NORTH NON FROST SUSCEPTIBLE	TRANS	TRANSVERSE
		NIC	NOT IN CONTRACT	TV	TELEVISION
	EAST	NO	NUMBER	TYP	TYPICAL
Ξ)	EXIST	NTS	NOT TO SCALE	U	
A.	EACH			UBC	UNIFORM BUILDING CODE
G	EXIST GRADE	0	OVEDDLIDDEN	UE	UNDERGROUND ELECTRIC
J	EXPANSION JOINT	OBD OC	OVERBURDEN ON CENTER	UMC	UNIFORM MECHANICAL CODE
_EC	ELECTRICAL	OD	OUTSIDE DIAMETER	UHMW	ULTRA HIGH MOLECULAR WEIGHT
	ELEVATION	OG	ORIGINAL GROUND	UON	UNLESS OTHERWISE NOTED
OP	END OF PROJECT	OHE	OVERHEAD ELECTRICAL	UPC	UNIFORM PLUMBING CODE
בווום בווום	EQUAL	OWS	OVERHEAD ELECTRICAL OIL-WATER SEPARATOR	v	
QUIP ST	EQUIPMENT ESTIMATE	OPP	OPPOSITE	V	VALVE DOV
KC	EXCAVATE	Р		VB	VALVE BOX
KIST	EXISTING		DIDE	V/VERT	VERTICAL
KP	EXPANSION	P	PIPE POINT OF CURVATURE DIFCE	W	
		PC PCC	POINT OF CURVATURE, PIECE PRECAST CONCRETE	W	WEST
2	FACE OF CURB	PED	PEDESTAL	w/	WITH
5	FLOOR DRAIN	PER	PERIMETER	W/IN	WITHIN
<del>.</del>	FINISHED FLOOR	PERF	PERFORATE (D)	WD	WOOD
3	FINISHED FLOOR FINISHED GRADE	PI	POINT OF INTERSECTION	WELDMT	WELDMENT
<i>э</i> Н	FIRE HYDRANT, FLAT HEAD	PLWD	PLYWOOD	WL	WATERLINE
, N	FINISH (ED)	PL	PROPERTY LINE, PLATE	WV	WATER VALVE
Ž.	FORCE MAIN SEWER	PRC	POINT OF REVERSE CURVATURE	W/O	WITHOUT
ND.	FOUNDATION	PROJ	PROJECT	•	
Ī	FOOT	PRV	PRESSURE REDUCING VALVE	X	
TG	FOOTING	PSI	POUND PER SQUARE INCH	XFMR	TRANSFORMER
-	FLOWLINE	PT	POINT, PRESSURE TREATED,	<pt< td=""><td>ANGLE POINT</td></pt<>	ANGLE POINT
-			POINT OF TANGENCY		
	CALLON	PVC	POINT OF VERTICAL CURVATURE,		
AL ALV	GALLON GALVANIZED	Q	POLY VINYL CHLORIDE		
ALV B	GALVANIZED GRADE BREAK		OLIANITITY		
	OUVIDE DIVEVIV	QTY	QUANTITY		
	GALLONS PER MINITE				
PM RD	GALLONS PER MINUTE GROUND				









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DESIGN: NAM CHECKED: CRS NAM APPROVED: CRS



### CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002

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GENERAL NOTES, LEGEND AND ABBREVIATIONS

 PND PROJECT NO.:
 102081
 DWG. FILE:
 1.02.DWG

1.02 2 OF 38

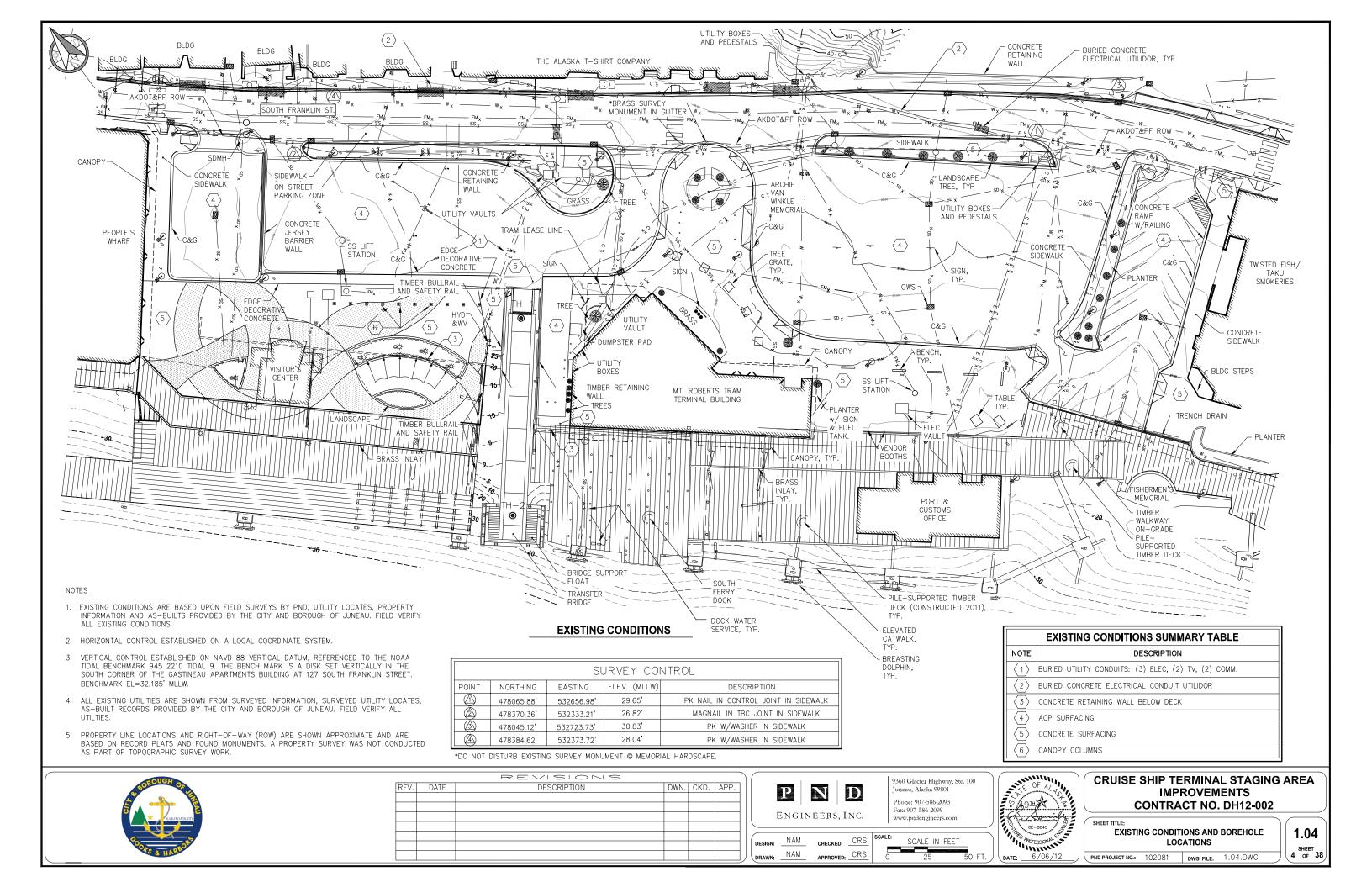
#### **GENERAL NOTES** 1) ALL INDIVIDUAL MINING PLANS SHALL BE APPROVED, IN WRITING, BY THE OWNER PRIOR TO 19) THE CONTRACTOR SHALL SUBMIT A \$10,000 CASH BOND FOR ROCK OR TOPSOIL PROCESSING CLEARING OR EXCAVATION WITHIN THE QUARRY PROJECT MINING AREA 20) ACCESS TO OTHER MINING AREAS MUST BE MAINTAINED THROUGH THE EXCAVATION MINING 2) ALL OVERBURDEN SHALL BE REMOVED TO A MINIMUM DISTANCE OF 15' FROM THE FINISHED WORKING FACE. AUKE BAY 21) ORGANIC OVERBURDEN FREE FROM LARGE WOODY DEBRIS MAY BE PLACED TO A DEPTH OF ONE 3) THE CUTBANK OF THE OVERBURDEN SHALL BE SLOPED TO THE NATURAL ANGLE OF REPOSE, FOOT ON THE FILL SLOPE OF THE LOWER ACCESS ROAD. BUT SHALL BE NO STEEPER THAN 1 TO 1. 22) RELOCATE EQUIPMENT ACCESS IF REMOVAL IS NECESSARY. 4) ALL DEAD TREES AND SNAGS WHICH ARE SUFFICIENTLY TALL TO REACH THE WORK AREA SHALL 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. 7) AFTER EXCAVATION IS COMPLETE, THE AREA SHALL BE CLEANED UP AND LEFT AS SHOWN ON THE QUARRY USAGE PLAN. 8) ALL MATERIALS LEAVING THE QUARRY LIMITS SHALL BE CONTAINED WITHIN THE HAULING VEHICLE. 9) ALL DEBRIS AND OTHER BY-PRODUCTS OF TOPSOIL SCREENING OPERATIONS SHALL BE DISPOSED OF OFF SITE, OR AS APPROVED BY THE CITY. **X** 251.3 10) APPROXIMATE LIMITS OF DEVELOPMENT SPECIFIC TO THIS PROJECT WILL BE FIELD STAKED BY X 252.7 11) THE MATERIALS WITHIN THE QUARRY THAT ARE MADE AVAILABLE TO THE CONTRACTOR FOR THIS PROJECT, MAY NOT MEET THE MATERIAL SPECIFICATIONS FOR THIS PROJECT WITHOUT PROCESSING EFFORTS BY THE CONTRACTOR. THESE EFFORTS MAY INCLUDE, BUT ARE NOT **X** 176.5 **×** 287.2 LIMITED TO, SCREENING AND SORTING AND PRIMARY CRUSHING. **VICINITY MAP** 12) MATERIAL STOCKPILED OFF-SITE MUST HAVE PRIOR APPROVAL OF THE PROJECT MANAGER. 13) ALL THE REQUIREMENTS AND CONDITIONS OF CONDITIONAL USE PERMIT NUMBER USE2011-0017, SHALL BE MET. IN PARTICULAR, NOTE THE CONDITIONS WITH REGARD TO THE EAGLE TREES, BLASTING, NOISE MANAGEMENT PLAN AND TRAFFIC CONTROL. X 141.9 **X** 141.0 14) THE CONTRACTOR SHALL COORDINATE EXTRACTION ACTIVITY WITH OTHER CONTRACTORS WHO MAY BE USING THE SITE PER CONDITIONAL USE PERMIT NUMBER USE2011-0017. X 142.1 15) COMPRESSION BRAKES SHALL BE USED ONLY AS NECESSARY FOR SAFETY AND SHALL MEET THE **X** 278.0 REQUIREMENTS OF THE NOISE MANAGEMENT PLAN. 16) ALL QUARRY OPERATIONS SHALL BE RESTRICTED TO THE FOLLOWING TIME PERIODS: MONDAY THROUGH FRIDAY FROM 8:00 AM - 4:30 PM. BLASTING IS RESTRICTED TO 10:00 AM - 12:00 PM AND 1:00 PM - 3:00 PM, MONDAY THROUGH FRIDAY. **X** 178.4 17) MARCH 1 THROUGH MAY 31 IS AN EAGLE NESTING PERIOD. NO BLASTING WITHIN 2600'. BLASTING IS ALLOWED AFTER MAY 31 WITH AN EAGLE MONITOR PRESENT. IF NEST IS NOT **X** 177.3 OCCUPIED, A MONITOR IS NOT REQUIRED. DRILLING IS ALLOWED OUTSIDE OF THE 330' ZONE. 18) AREA SURVEYED NOV. 2011 INDIVIDUAL MINING PLAN THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE OWNER PRIOR TO BEGINNING ANY OPERATIONS WITHIN THE QUARRY LIMITS. OPERATIONS SHALL NOT PROCEED UNTIL THE CONTRACTOR'S INDIVIDUAL MINING PLAN HAS BEEN 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 AND EQUIPMENT SOUND CERTIFICATIONS. EXISTING GROUND C) STRIPPING / OVERBURDEN DISPOSAL PLAN. D) DRAINAGE AND POLLUTION PLAN E) RECLAMATION PLAN. F) A TRAFFIC CONTROL PLAN APPROVED BY ADOT/PF. MATERIAL TO G) ALL CONTRACTOR INDIVIDUAL MINING PLANS FOR REMOVAL OF MATERIAL FROM THE QUARRY SHALL BE BE REMOVED PREPARED BY A REGISTERED CIVIL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA. H) EACH TRUCK SHALL RECORD ITS LOAD WEIGHT ON A CBJ SCALE TICKET PRIOR TO LEAVING THE QUARRY. GLACIER HWY MANAGEMENT FEES AT THE RATE OF \$1.67/TON WILL BE ASSESSED TO CONTRACTORS OBTAINING MATERIAL FROM STABLER POINT ROCK QUARRY FOR THIS PROJECT. J) ALL CONTRACTORS MUST BE IN GOOD STANDING WITH THE CITY AND BOROUGH OF JUNEAU. STABLER'S POINT QUARRY SITE K) IF THE CONTRACTOR ELECTS TO USE THIS MATERIAL SOURCE FOR THIS PROJECT, ESTIMATES OF **SAMPLE SECTION** QUANTITIES AND A MINING PLAN MUST BE SUBMITTED WITHIN TWO WEEKS OF NOTICE TO PROCEED. REVISIONS CRUISE SHIP TERMINAL STAGING AREA 9360 Glacier Highway, Ste. 100 REV. DATE DESCRIPTION DWN. CKD. APP. N D Juneau, Alaska 99801 **IMPROVEMENTS** CONTRACT NO. DH12-002 Fax: 907-586-2099 ENGINEERS, INC. www.pndengineers.com AROFESSIONAL LEGISLA CITY/STATE STABLER POINT ROCK 1.03 SCALE IN FEET CHECKED: CRS QUARRY USAGE PLAN NAM CRS 160 FT. 3 OF 38

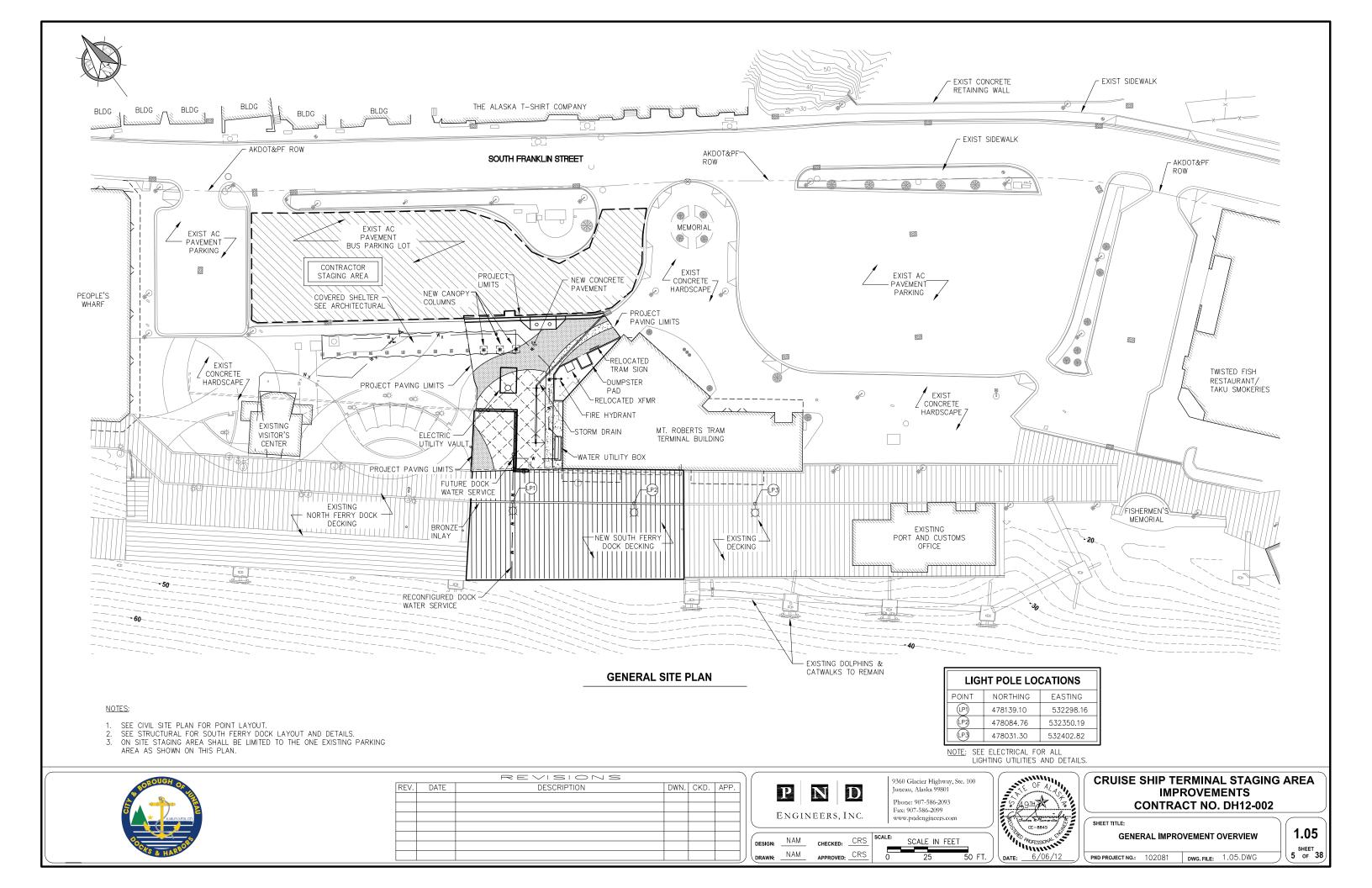
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DATE:

PND PROJECT NO.: 102081 DWG. FILE: 1.03.DWG





#### SOILS CLASSIFICATION, CONSISTENCY AND SYMBOLS

#### CLASSIFICATION

IDENTIFICATION AND CLASSIFICATION OF THE SOIL IS ACCOMPLISHED IN GENERAL ACCORDANCE WITH THE ASTM VERSION OF THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) AS PRESENTED IN ASTM STANDARD D 2487. THE STANDARD IS A QUALITATIVE METHOD OF CLASSIFYING SOIL INTO THE FOLLOWING MAJOR DIVISIONS (1) COARSE GRAINED (2) FINE—GRAINED, AND (3) HIGHLY ORGANIC SOILS. CLASSIFICATION IS PERFORMED ON THE SOILS PASSING THE 75 MM (3 INCH) SIEVE AND IF POSSIBLE THE AMOUNT OF OVERSIZE MATERIAL (> 75 MM PARTICLES) IS NOTED ON THE SOIL LOGS. THIS IS NOT ALWAYS POSSIBLE FOR DRILLED TEST HOLES BECAUSE THE OVERSIZE PARTICLES ARE TYPICALLY TOO LARGE TO BE CAPTURED IN THE SAMPLING EQUIPMENT. OVERSIZE MATERIALS GREATER THAN 300 MM (12 INCHES) ARE TERMED BOULDERS, WHILE MATERIALS BETWEEN 75 MM AND 300 MM ARE TERMED COBBLES. COARSE GRAINED SOILS ARE THOSE HAVING 50% OR MORE OF THE NON—OVERSIZE SOIL RETAINED ON THE NO. 200 SIEVE; IF A GREATER PERCENTAGE OF THE COARSE GRAINS IS RETAINED ON THE NO. 4 SIEVE THE COARSE GRAINED SOIL IS CLASSIFIED AS GRAVEL, OTHERMISE IT IS CLASSIFIED AS SAND. FINE GRAINED SOILS ARE THOSE HAVING MORE THAN 50% OF THE NON—OVERSIZE MATERIAL PASSING THE NO. 200 SIEVE; THESE MAY BE CLASSIFIED AS SILT OR CLAY DEPENDING THEIR ATTERBERG LIQUID AND PLASTIC LIMITS OR OBSERVATIONS OF FIELD CONSISTENCY. REFER TO ASTM D 2487–93 FOR A COMPLETE DISCUSSION OF THE CLASSIFICATION METHOD.

#### SOIL CONSISTENCY - CRITERIA

SOIL CONSISTENCY AS DEFINED BELOW AND DETERMINED BY NORMAL FIELD AND LABORATORY METHODS APPLIES ONLY TO NON-FROZEN MATERIAL. FOR THESE MATERIALS, THE INFLUENCE OF SUCH FACTORS AS SOIL STRUCTURE,, I.E. FISSURE SYSTEMS, SHINKAGE CRACKS, SLICKENSIDES, ETC., MUST BE TAKEN INTO CONSIDERATION IN MAKING ANY CORRELATION WITH THE CONSISTENCY VALUES LISTED BELOW. IN PERMAFROST ZONES, THE CONSISTENCY AND STRENGTH OF FROZEN SOILS MAY VARY SIGNIFICANTLY AND UNEXPLAINABLY WITH ICE CONTENT, THERMAL REGIME AND SOIL TYPE.

RELATIVE	DENSITY OF SAN	DS ACCORDING
TO RESULTS	OF STANDARD P	ENETRATION TEST

CONSISTENCY OF CLAY IN TERMS OF UNCONFINED COMPRESSIVE STRENGTH (TSF)

	N*(Blows/ft)	Relative Density	Very Soft	0.0 - 0.25
Loose	0 - 10	0 - 40%	Soft	0.25 - 0.5
Dense	10 - 30	40 - 70%	Stiff	0.5 - 1.0
Medium	Dense 30 - 60	70 - 90%	Firm	1.0 - 2.0
Very D	ense > 60	90 - 100%	Very Firm	2.0 - 4.0
		00 10070	>Hard	4.0

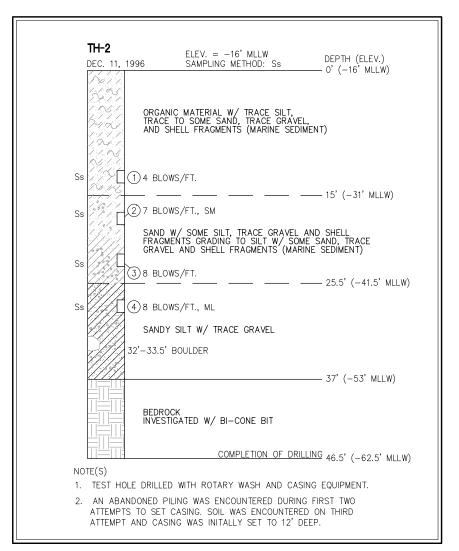
\* STANDARD PENETRATION, "N": BLOWS PER FOOT OF A 140-POUND HAMMER FALLING 30 INCHES ON A 1.4" ID SPLIT-SPOON SAMPLER EXCEPT WHERE NOTED.

#### SAMPLER TYPE SYMBOLS

#### NOTES

- 1. SPLIT SPOON SAMPLER SIZES PRESENTED ABOVE REFER TO THE INSIDE DIAMETER OF THE SAMPLER.
- 2.SOIL CLASSIFICATIONS ARE BASE ON THE UNIFIED SOIL CLASSIFICATION SYSTEM. FIELD DESCRIPTIONS MAY HAVE BEEN MODIFIED TO REFLECT LABORATORY TEST RESULTS.
- 3 DESCRIPTIONS ON THESE BORING LOGS APPLY ONLY AT THE SPECIFIC LOCATIONS AT THE TIME THE BORINGS WERE DRILLED. THEY ARE NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR TIMES.
- SPLIT SPOON BLOW COUNTS SHOWN ARE UNCORRECTED RAW DATA. VARIOUS HAMMER SIZES AND SPLIT SPOON 4-SIZES WERE USED AND HAVE NOT BEEN CORRECTED TO A STANDARD PENETRATION TEST (SPT). BLOW COUNTS MAY VARY SUBSTANTIALLY BETWEEN SPT AND THESE METHODS.

#### TH-1 ELEV. = +18' MLLW ELEV. = +18' MLLW SAMPLING METHODS: Ss & Cs O' (+18' MLLW) DEC 9-10 1996 COBBLES, GRAVEL AND SAND (AJ-ROCK FILL), <12" (1) 67 BLOWS/FT. SANDY GRAVEL W/ TRACE TO SOME SILT AND OCCASIONAL COBBLES (SMALLER FILL MATERIAL) (2)12 BLOWS/FT. — 19' (-1' MLLW) SANDY SILT W/ TRACE GRAVEL √√√√(3)3 BLOWS/FT., ML 23.5'-25' BOULDER · 26' (-8' MLLW) SAND W/ SOME SILT AND TRACE GRAVEL (4) 35 BLOWS/FT. 27'-28.5' DRILLED PAST BOULDER — 31' (-13' MLLW) GRAY SLATEY PHYLLITE W/ QUARTS INTRUSIONS TO 1/4" (BEDROCK) 5 25% RECOVERY 660% RECOVERY Cs Cs 7)30% RECOVERY √(8)30% RECOVERY \_ 41' (-23' MLLW) COMPLETION OF DRILLING NOTE(S) 1. TEST HOLE DRILLED WITH 3 1/8" I.D., 6 1/2" O.D. HOLLOW STEM AUGER AND 1" I.D. SINGLE BARREL ROCK CORING EQUIPMENT.



**TEST HOLE LOG TH-1** 

**TEST HOLE LOG TH-2** 

#### STANDARD BOREHOLE LOG DETAILS



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



PJD

PJD

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## CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002

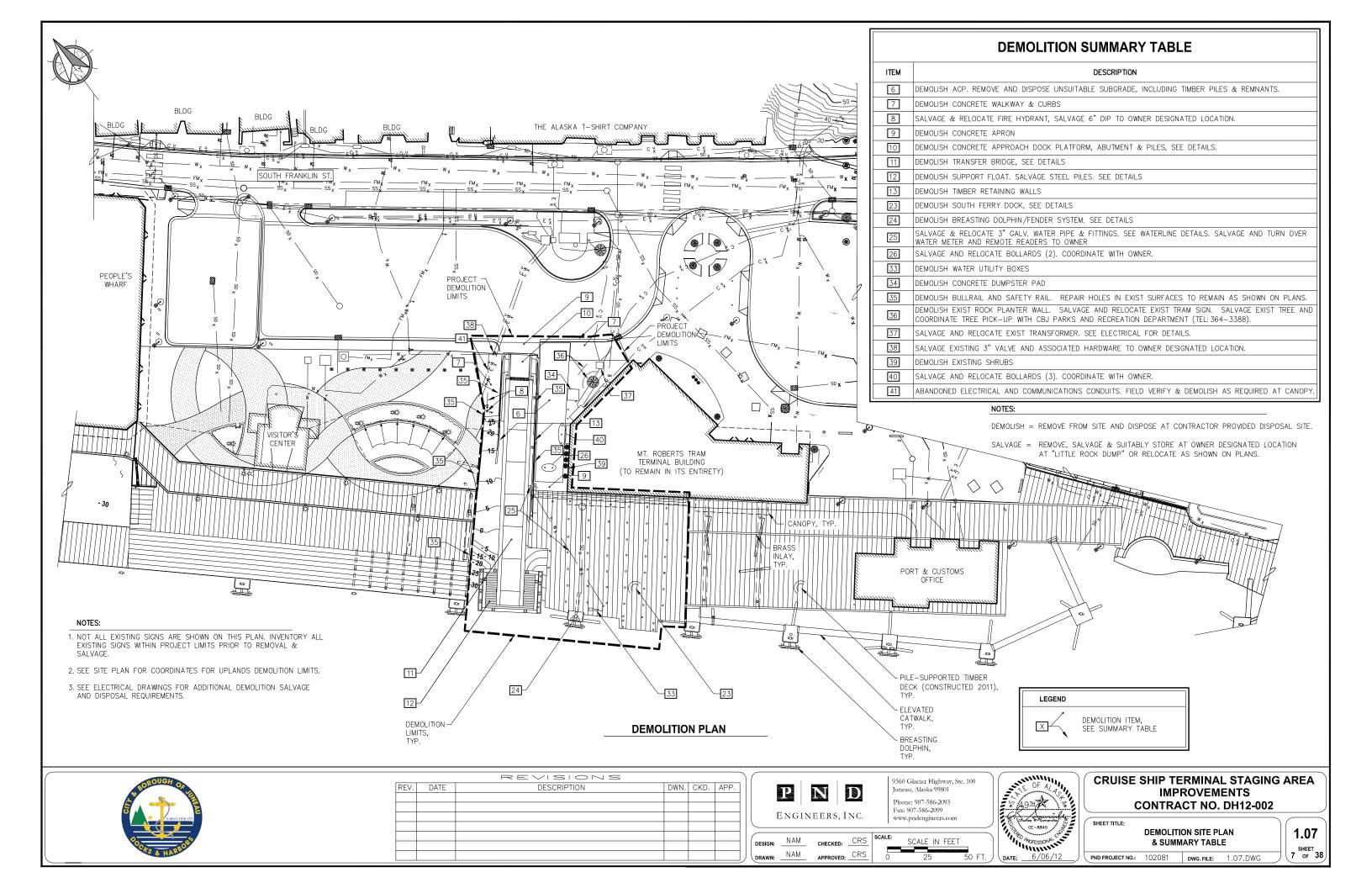
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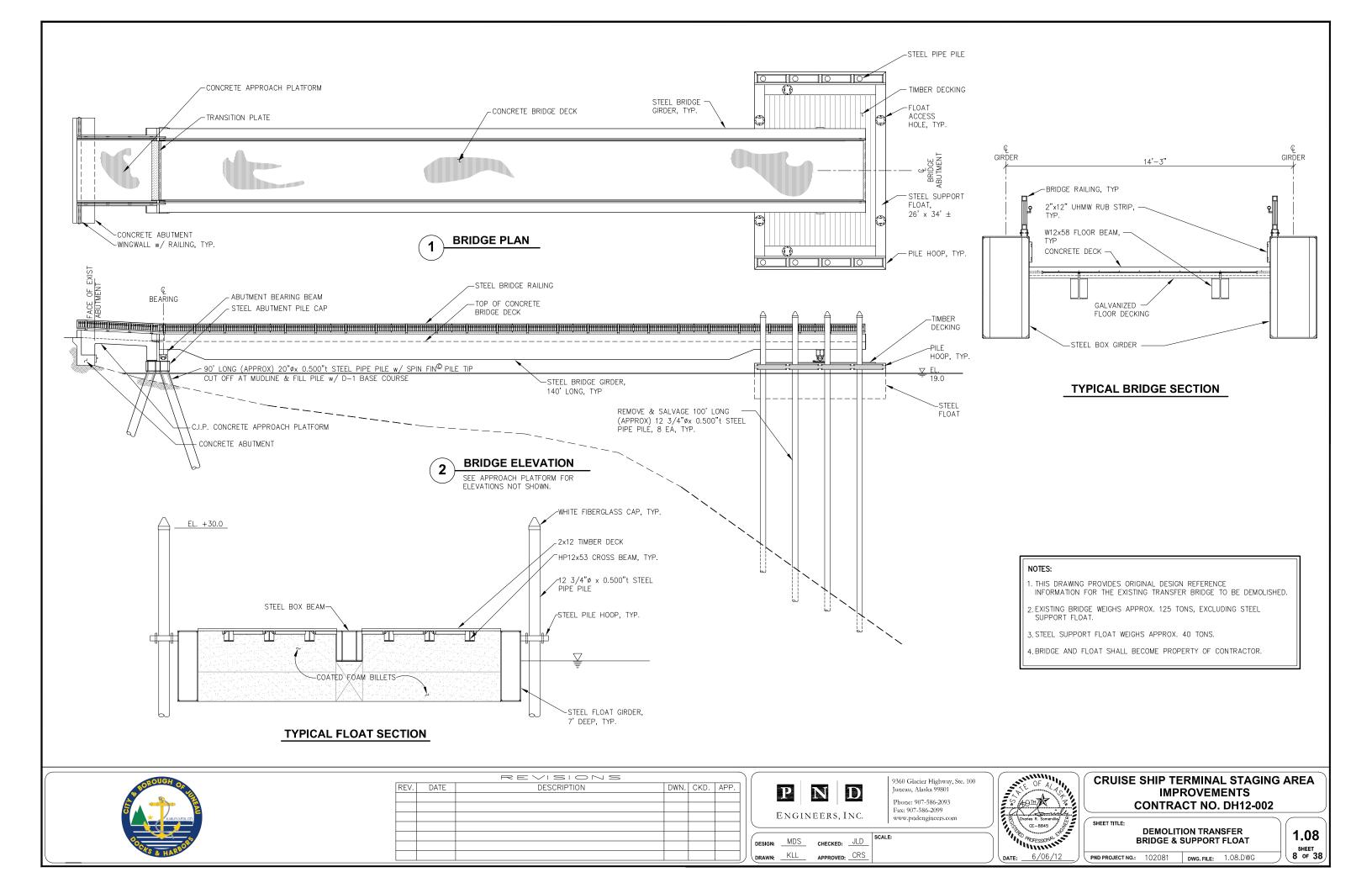
BOREHOLE LOGS

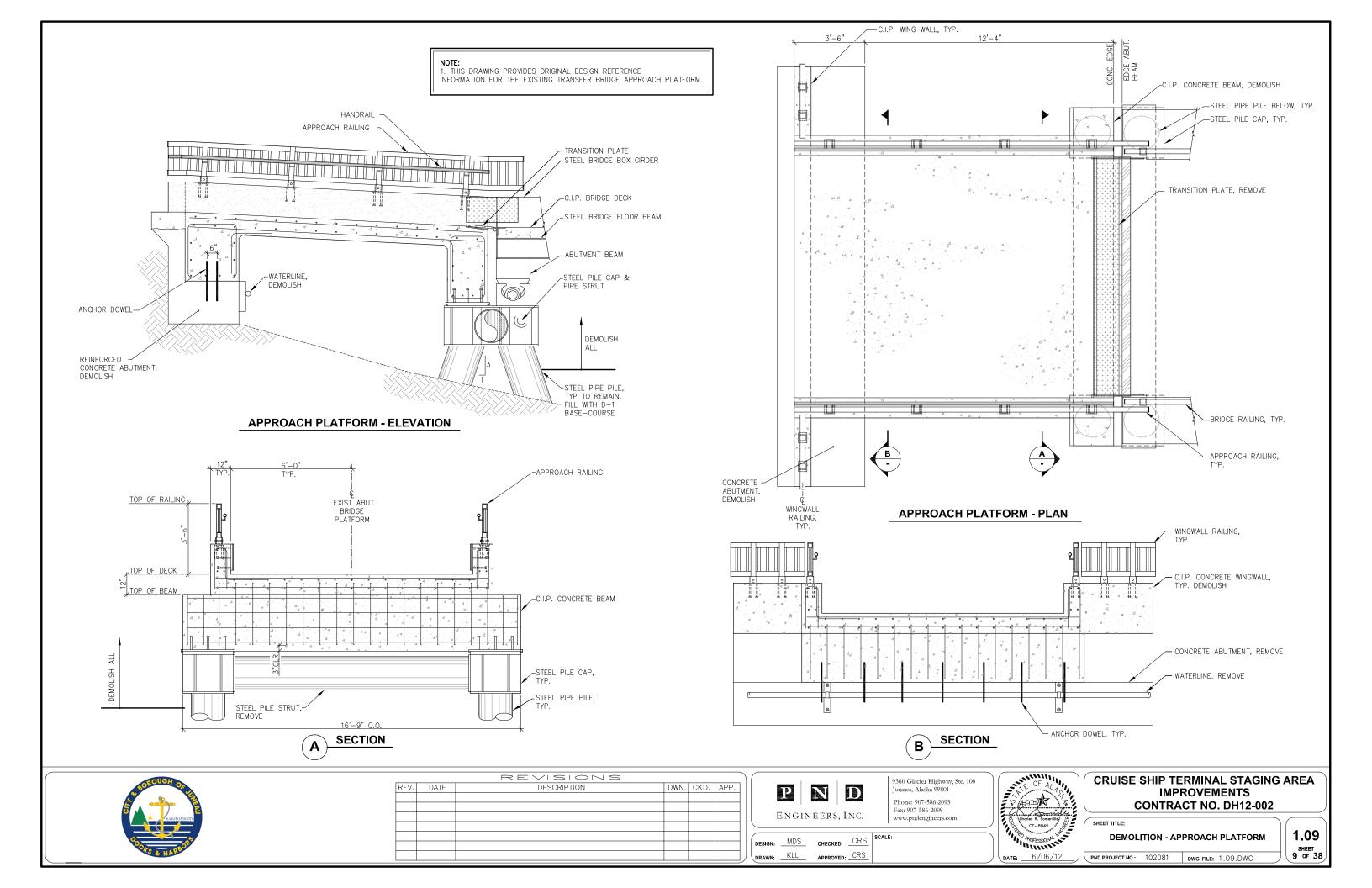
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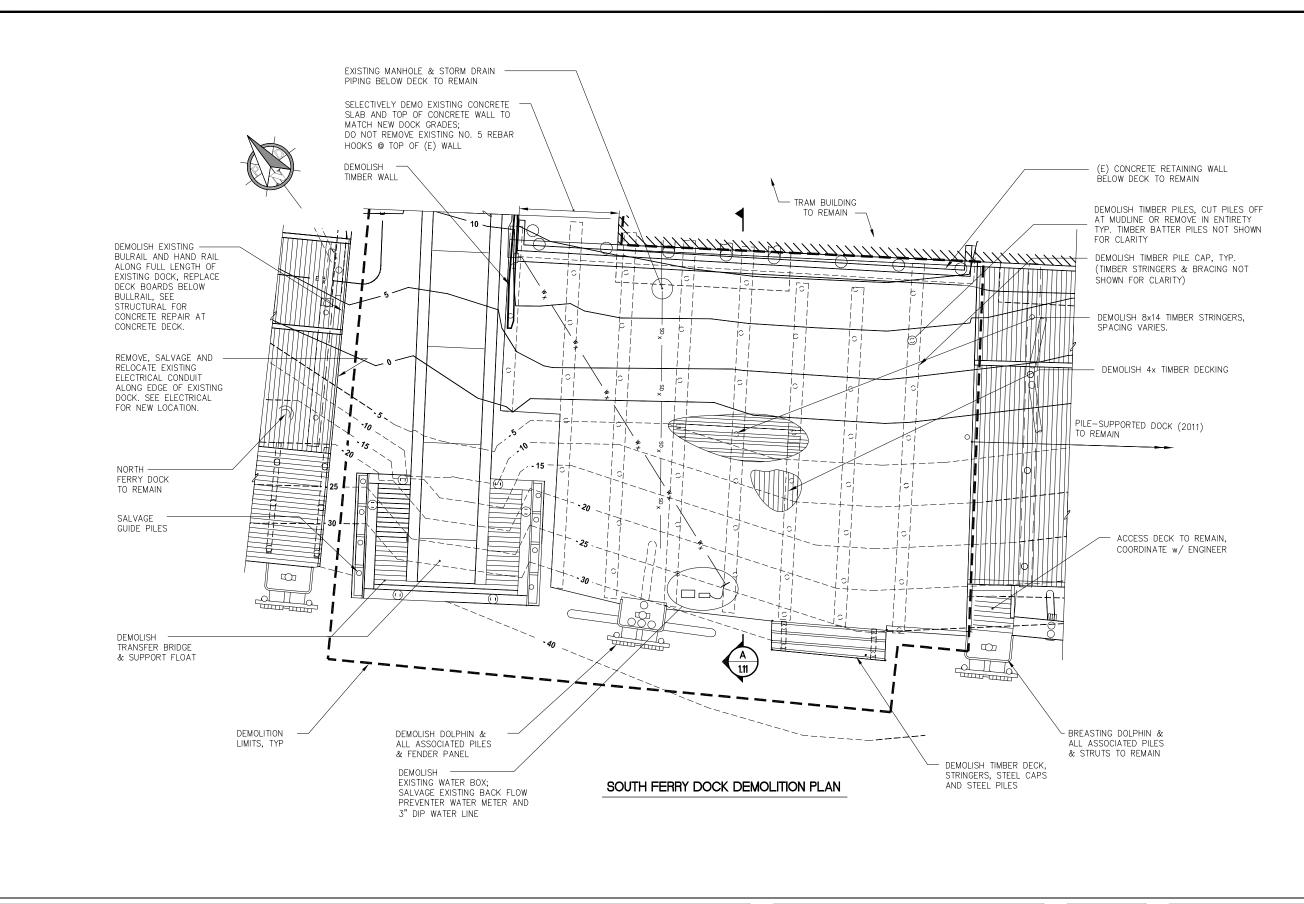
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1.06











		REVISIONS			
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



DESIGN: MDS CHECKED: CRS

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AS SHOWN

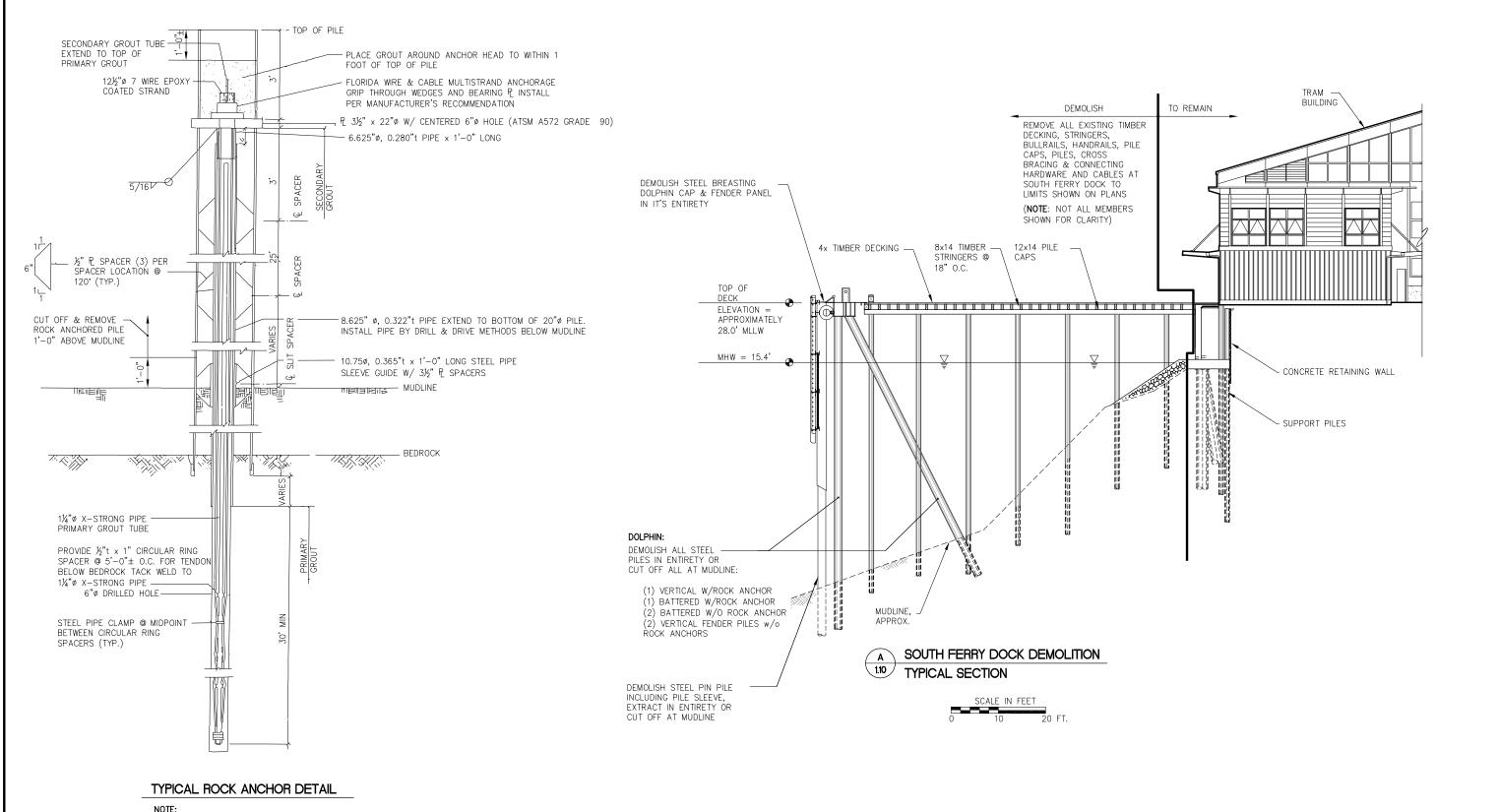
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#### **CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS** CONTRACT NO. DH12-002

**DEMOLITION - SOUTH FERRY DOCK PLAN** 

PND PROJECT NO.: 102081 DWG. FILE: 1.10.DWG

1.10 SHEET 10 OF 38



THIS DETAIL PROVIDES ORIGINAL DESIGN REFERENCE INFORMATION FOR THE ROCK ANCHORS TO BE DEMOLISHED (2 EACH)



REVISIONS							
DATE	DESCRIPTION	DWN.	CKD.	APP.			
	DATE						



PJD

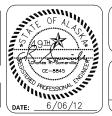
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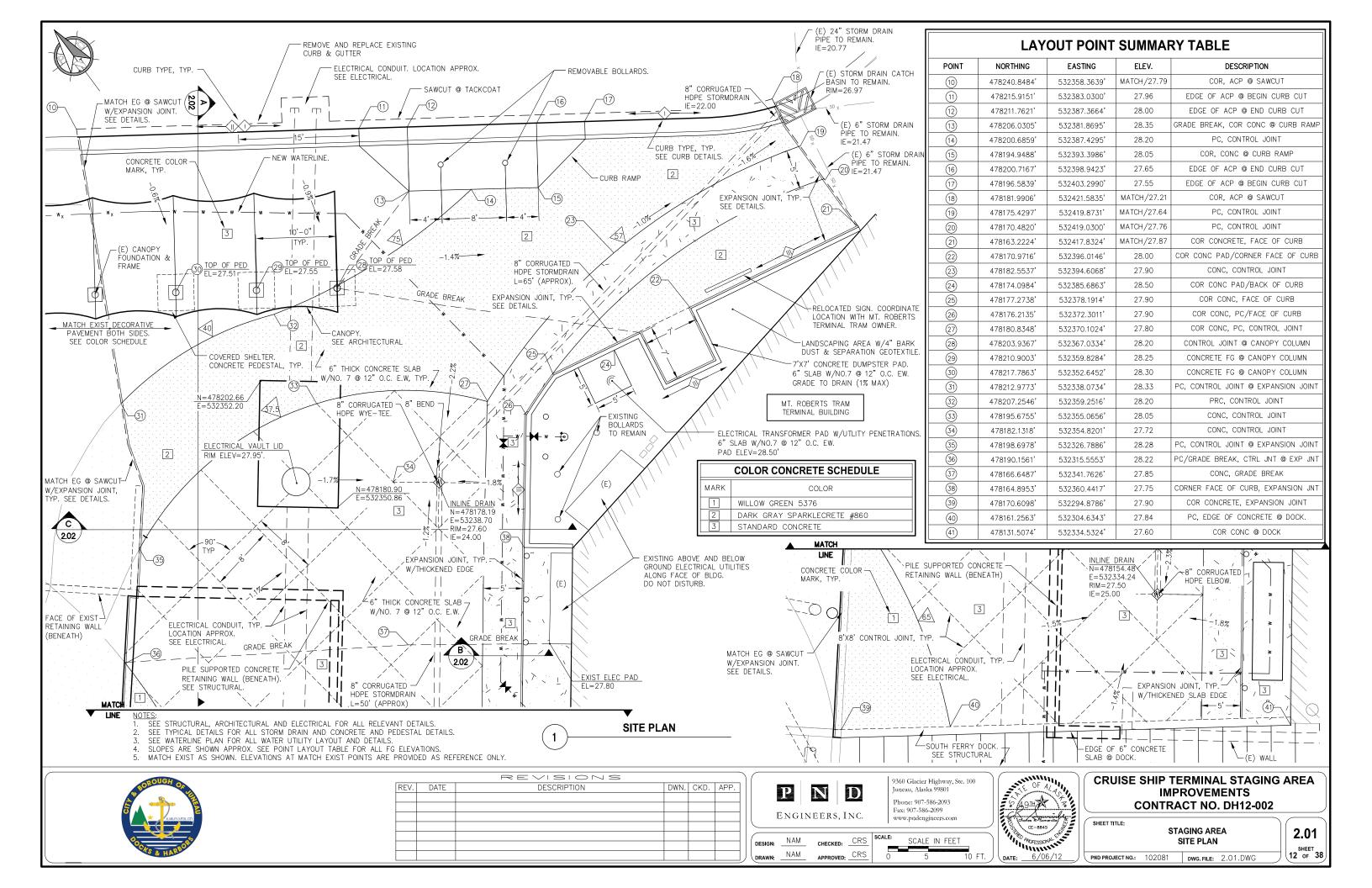


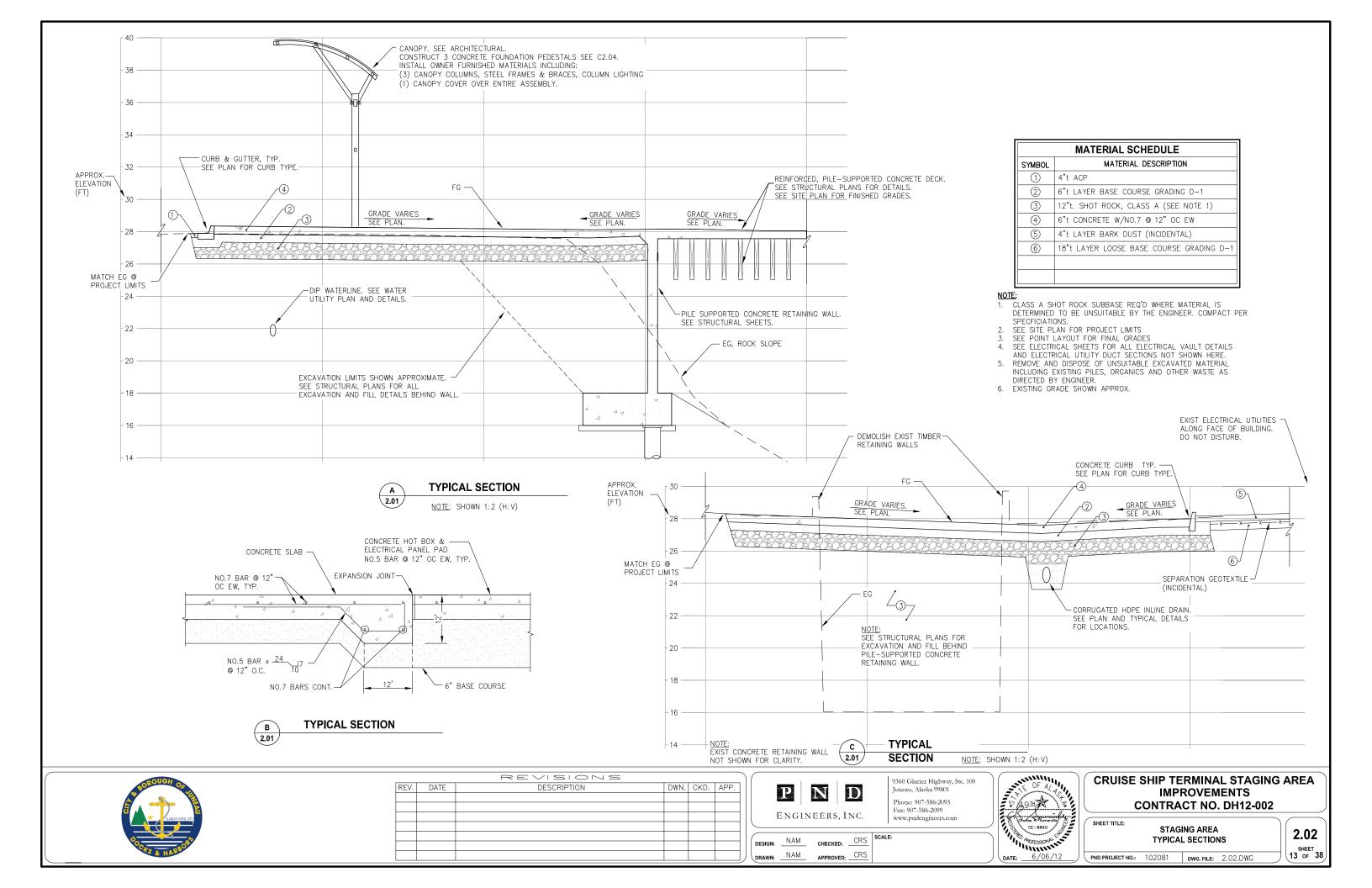
#### **CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

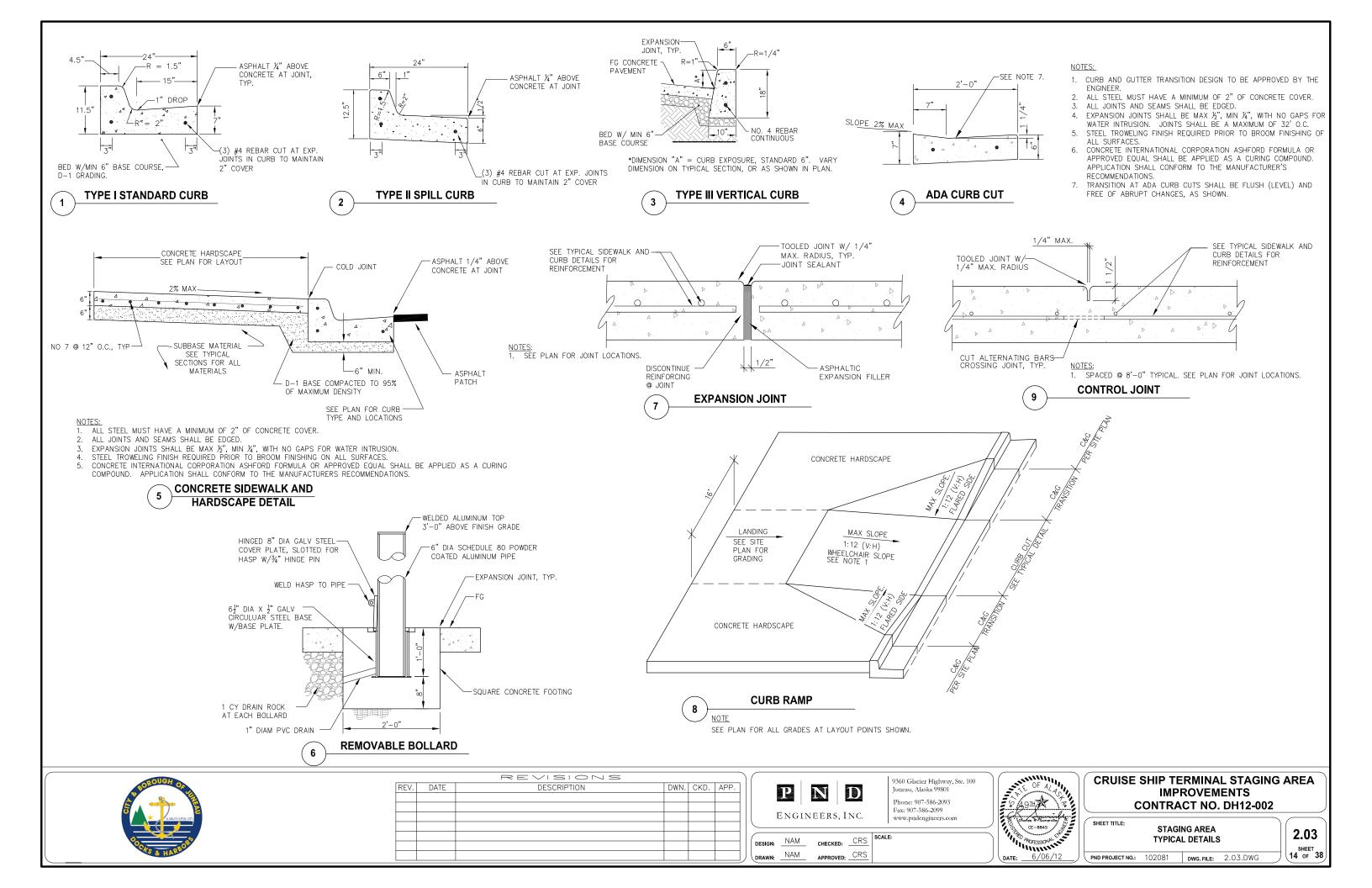
**DEMOLITION - SOUTH FERRY DOCK** TYPICAL SECTION

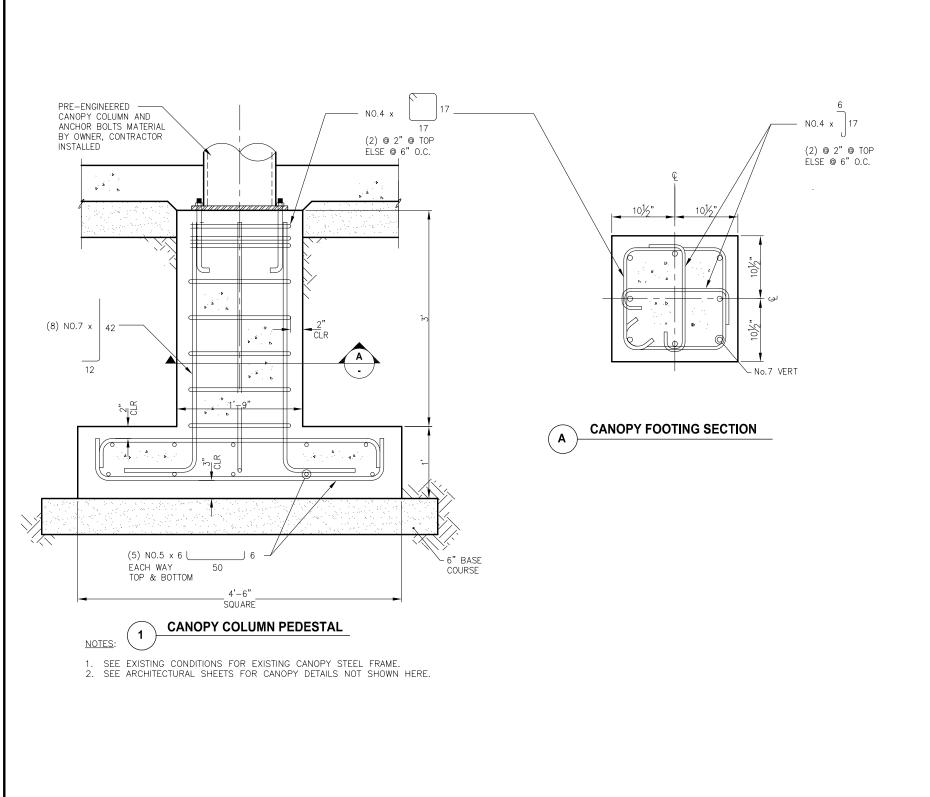
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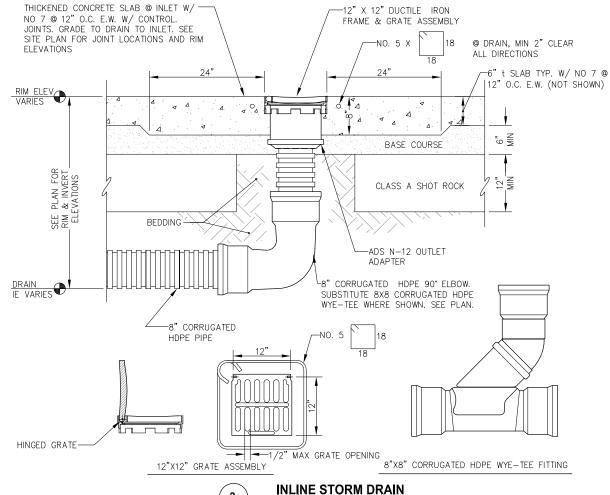
1.11 SHEET 11 OF 38





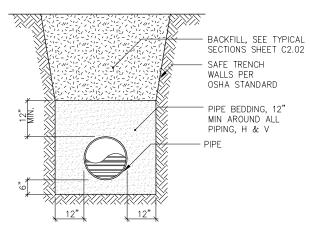






- INLINE STORM DRAIN W/GRATE ASSEMBLY SHALL BE ADS N-12 NYLOPLAST W/12"X12" GRATE OR APPROVED EQUAL. FRAME AND GRATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 AND SHALL NOT BE HAZARDOUS TO PEDESTRIAN OR BICYCLE TRAFFIC. SEE GRATE ASSEMBLY DETAIL FOR MAX GRATE OPENING SIZE.
- DRAIN SHALL BE LOAD RATED FOR AN H-20 VEHICLE LOAD.
- INSTALL DRAIN PER MANUFACTURER'S RECOMMENDATIONS.
- SEE SITE PLAN FOR DRAIN LAYOUT, LOCATIONS AND ELEVATIONS.
- SEE PIPE BEDDING SECTION FOR PIPE INSTALLATION.

NOTES:



TYPICAL PIPE BEDDING SECTION



REVISIONS								
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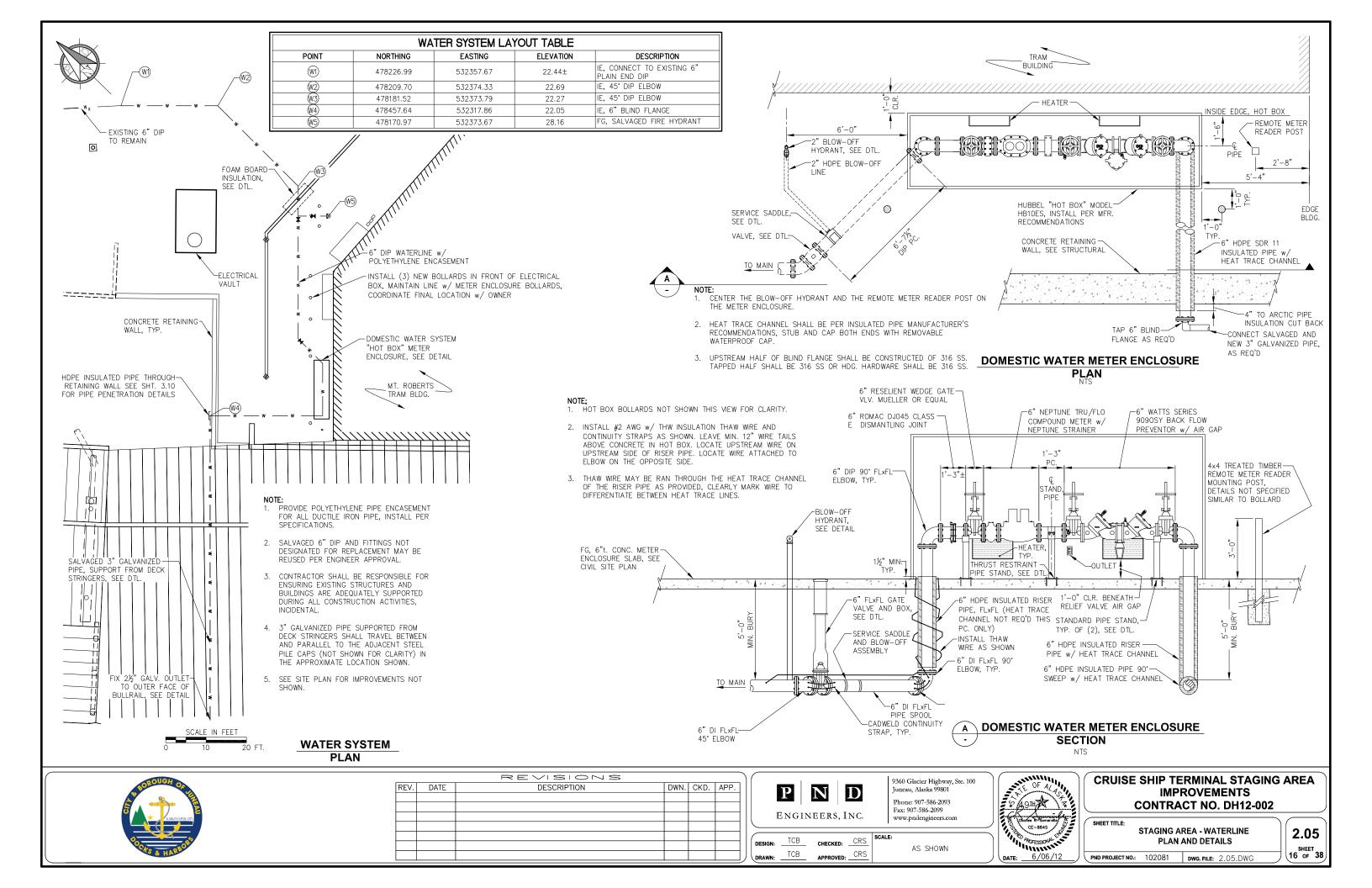
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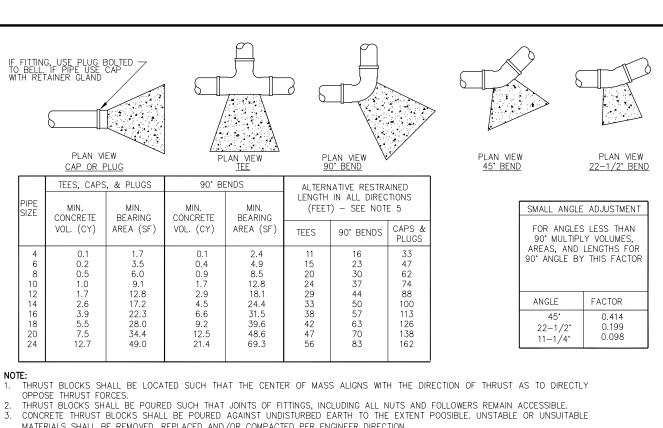


#### **CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

SHEET TITLE: STAGING AREA TYPICAL DETAILS

2.04 SHEET 15 OF 38





- MATERIALS SHALL BE REMOVED, REPLACED AND/OR COMPACTED PER ENGINEER DIRECTION. VOLUME AND BEARING SURFACE OF 2500 P.S.I. CONCRETE THRUST BLOCKS ARE BASED ON 150 P.S.I. WATER PRESSURE AND SOIL
- BEARING CAPACITY OF 2000 P.S.F. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO THE ENGINEER'S REVIEW. THRUST BLOCKS MAY BE OMITTED IF ALL JOINTS WITHIN MINIMÚM DISTANCE GIVEN BY THE ABOVE TABLE ARE RESTRAINED AND PIPE IS BEDDED IN D-1. THE DISTANCES APPEARING IN THE TABLE ASSUME THAT THE PIPE IS BURIED AT LEAST 5' DEEP AND THAT SOIL

**CONCRETE THRUST BLOCK** 

CONDITIONS ARE AS LISTED IN NOTE 4. OTHER CONDITIONS ARE SUBJECT TO ENGINEER REVIEW. THRUST BLOCKS ARE REQUIRED FOR ALL BENDS, TEES, PLUGS, AND CAPS IN PIPE 4" AND LARGER EXCEPT AS LISTED IN NOTE 5

-FINISHED GRADE,

RISING BRONZE STEM RESILIENT

WEDGE TYPE AND CONFORM TO

DROP LID w/ 2½" SKIRT AND 1"

LETTERING TO READ "WATER"

VALVE BOX DUST PAN TO BE

THAW WIRE

(2) CONTINUITY

STRAPS REQ'D

EXTENSION MAY BE NECESSARY

CONTRACTOR TO FIELD DETERMINE

CONSTRUCTED OF 14 GA. HRFW TUBE

WRAP (3) LAYERS OF

SECTION OF VALVE BOX

GEOTEXTILE FABRIC AROUND

OUTSIDE OF VALVE & BASE

REGARDLESS OF SIZE OF THRUST BLOCKS ALL JOINTS AT CAPS, PLUGS, BENDS, AND TEES MUST BE RESTRAINED.

TYP

AWWA C509

OR APPROVED EQUAL

-3/8"

- RESTRAINED LENGTHS USED IN PLACE OF THRUST BLOCKS MAY NOT OVERLAP.
- USE EBAA IRON MEGA-LUG OR EQUAL JOINT RESTRAINTS.

TAPER, TYP.

TO BE SAWED AS REQ'D FOR MIN.

4" CLEARANCE

TOP SECTION

THAW WIRE

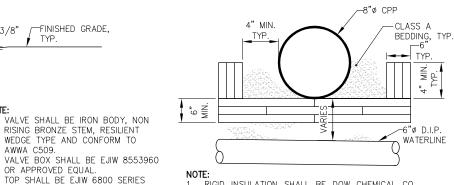
BASE SECTION

RESTRAINED-

JOINT

VAI VF

VALVE BOX DUST PAN SEE NOTE NO. 4



RIGID INSULATION SHALL BE DOW CHEMICAL CO. STYROFOAM HIGHLOAD 100 OR APPROVED EQUAL.

- 2. INSTALL RIGID INSULATION BOARD AT ALL WATER LINE STORM DRAIN INTERSECTIONS FOR 8'-0" LONGITUDINALLY ALONG THE STORM DRAIN PIPE CENTERED ON THE WATER LINE CROSSING POINT.
- 3. BED INSULATION BOARD WITH MIN. 3" CLASS A BEDDING MATERIAL, ALL SIDES.
- 4. STAGGER INSULATION BOARD JOINTS AS SHOWN.
- THE INSTALLATION OF RIGID INSULATION BOARD CONSIDERED INCIDENTAL TO WATERLINE

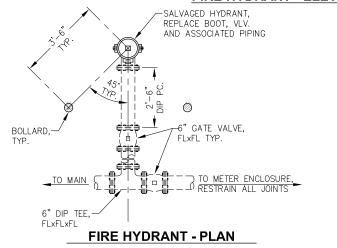
#### INSTALL 5'-6" NORDIC FLAG PER-MFRS. RECOMMENDATIONS SALVAGED HYDRANT STENCILED DISTANCE TO HYDRANT GATE VALVE (1) 4-1/2" PUMPER CONNECTION (O) (2) 2-1/2" HOSE CONNECTIONS -FASTEN THAW WIRE -TO HYDRANT FLANGE FG · -VAI VF THAW WIRE -CONTINUITY BOX MIN. SEE NOTE 8 STRAP, TYP. 6"ø D.I.P -REMOVE DRAIN PLUG -THRUST BLOCK, AS REQ'D SEE DTL. NOTE: 6"ø GATE-BOLLARDS VALVE NOT SHOWN

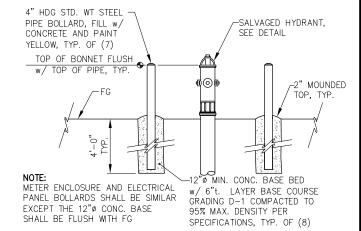
FLANGED

FOR CLARITY

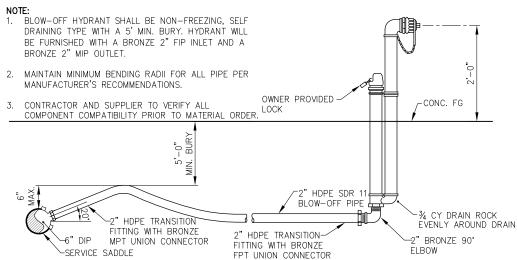
- HYDRANT BARREL AND VLV. BOX SHALL BE PLUMB.
- HYDRANT AND RISER PIPE SHALL BE SALVAGED AND RELOCATED PER SITE PLAN.
- REPLACE BOOT, VALVE, VALVE BOX, PIPE, AND ASSOCIATED HARDWARE TO TEE
- 4. WATER PIPE SHALL BE 6" D.I.P. w/ FLANGED JOINTS AS SHOWN IN SITE PLAN.
- 5. HYDRANT SHALL BE RE-PAINTED YELLOW & THE NUMBER OF FEET TO THE VALVE SHALL BE PRINTED IN BLACK 1/2" BLOCK LETTERS JUST BELOW THE TOP BONNET
- PORT CAPS SHALL BE COLOR CODED PER NFPA STD, 291 AS DIRECTED BY THE CBJ WATER UTILITY.
- DRAIN PLUG SHALL BE LEFT OUT & 3/4 CY OF DRAIN ROCK SHALL BE PLACED UNIFORMLY AROUND THE DRAIN
- 8. THAW WIRE & CONTINUITY STRAPS SHALL BE #2 AWG COPPER w/ TYPE THW INSULATION. THAW WIRE SHALL BE CADWELDED TO THE UPSTREAM SIDE OF THE TEE AS SHOWN. EACH JOINT SHALL HAVE (2) CONTINUITY STRAPS CADWELDED ACROSS OPPOSITE SIDES OF THE PIPE
- BENDS BETWEEN THE HYDRANT AND THE MAIN SHALL NOT EXCEED 11.25°.

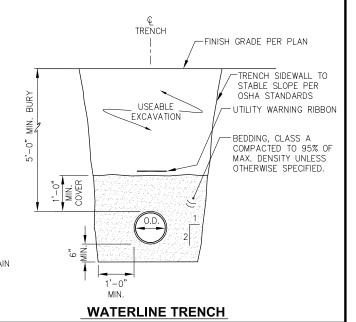
#### FIRE HYDRANT - ELEVATION





#### **BOLLARDS - ELEVATION**





#### WATERLINE STORMDRAIN CROSSING

DRAWN

### **BLOW-OFF HYDRANT - ELEVATION**





#### **CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS** CONTRACT NO. DH12-002

STAGING AREA WATERLINE DETAILS

2.06 17 OF 38 PND PROJECT NO.: 102081 DWG. FILE: 2.06.DWG



OPERATING NUT

& VLV. BOX

**VALVE** 

ENGINEERS, INC.

APPROVED:

### CE-8845 CHECKED: NTS TCB

DATE:

