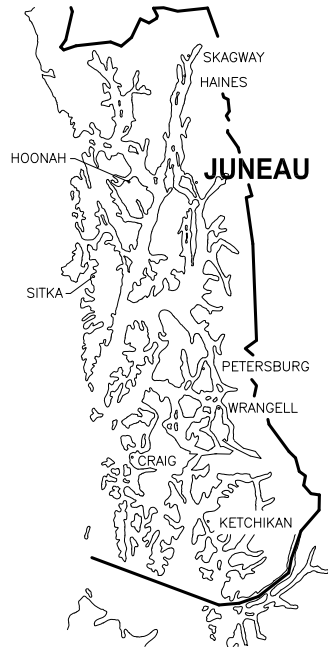


CITY & BOROUGH OF JUNEAU, ALASKA

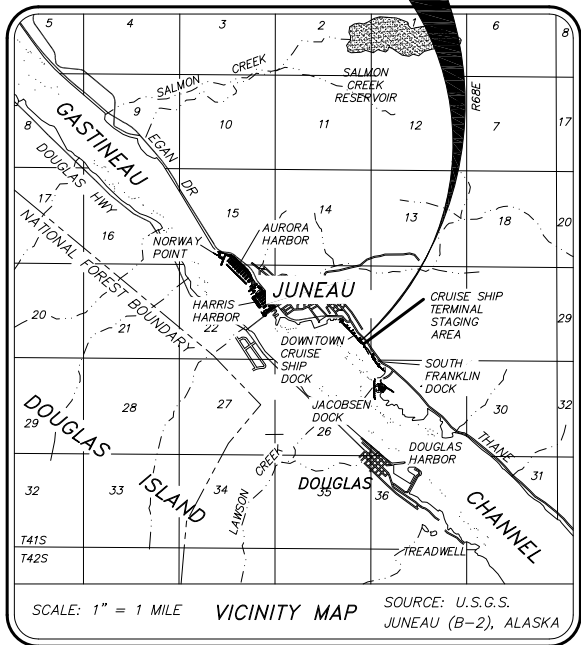
CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II

CONTRACT NO. DH13-017



SOUTHEAST
ALASKA

THIS
PROJECT



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PROJECT SCHEDULE

DESCRIPTION	SCHEDULE
1. EARLIEST FIELD START	SEPTEMBER 19, 2013
2. FULL FIELD START	OCTOBER 1, 2013
3. SUBSTANTIAL COMPLETION	MAY 2, 2014
4. FINAL COMPLETION OF ALL WORK UNDER THIS CONTRACT.	MAY 30, 2014

NOTE:
SEE DEMOLITION SITE PLAN FOR ADDITIONAL SCHEDULE PROVISIONS.



REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.



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DRAWN: PJD APPROVED: CRS

SCALE:



CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
COVER SHEET, VICINITY MAPS,
DRAWING INDEX

PND PROJECT NO.: 102081

1.01

SHEET
1 OF 52

GENERAL NOTES

1. EROSION AND POLLUTION CONTROL PLANS

THE CONTRACTOR SHALL DEVELOP AND SUBMIT FOR ENGINEER AND 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) '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 ELEVATIONS 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.,
COMMUNICATIONS, WATER AND SEWER LINES
ARE IN THE AREA. UTILITIES SHOWN HERE DO
NOT SUBSTITUTE FOR FIELD LOCATES.

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 A BOUNDARY SURVEY.

LEGEND

EXISTING	THIS PROJECT	
		SURVEY CONTROL
		BOLLARD
		CURB & GUTTER
		ELECTRICAL VAULT COVER
		FIRE HYDRANT
		LAYOUT POINT
		LIGHT POLE
		SANITARY SEWER MANHOLE
		SAWCUT
		STORM DRAIN MANHOLE
		STORM DRAIN INLET
		SIGN
		TEST HOLE
		TREE/VEGETATION
		WATER VALVE
		LAYOUT RADIUS
		ELECTRICAL (UNDERGROUND)
		WATER
		SANITARY SEWER
		COMMUNICATION (CABLE/TEL)
		STORM DRAIN
		FORCE MAIN
		GRADE BREAK
		SIGN POST (POST ONLY)

ABBREVIATIONS

A	AT	H	HUB & TACK	R	RADIUS
Ⓐ	ASBESTOS CEMENT PIPE	H&T	HEAVY DUTY	RAD	RIM ELEVATION
AC	ASPHALT CONCRETE PAVEMENT	HD	HOT-DIPPED GALVANIZED	RE	REFERENCE
ACP	AMERICAN DISABILITIES ACT	HDP	HIGH DENSITY POLYETHYLENE	REF	REINFORCEMENT
ADA	ADJUSTABLE	HDPE	HORIZONTAL	REINF	REQUIRED
ADJ	ASSOCIATED PILE AND FITTING CORP.	HORIZ	HOUSE	REQD	REINFORCED
APF	APPROXIMATE	HSE	HEIGHT	RET	RETAINING
APPROX.	ALASKA TIDELANDS SURVEY	HT	HIGHWAY	RO	ROUGH OPENING
ATS	AIR RELEASE VALVE	HWY.		ROW	RIGHT OF WAY
AV					
B		I		S	
BCC	BEGINNING OF CURB CUT	ID	INSIDE DIAMETER	S	SOUTH
BFV	BUTTERFLY VALVE	IE	INVERT ELEVATION	SCHED	SCHEDULE
BLDG	BUILDING	IN	INCH	SD	STORM DRAIN
BOP	BEGINNING OF PROJECT	IP	IRON PIPE	SDI	STORM DRAIN INLET STRUCTURE
BTM,BOT	BOTTOM	INCL	INCLUDE (D) (ING)	SDO	STORM DRAIN OUTLET STRUCTURE
		INSUL	INSULATE (D) (ION)	SDR	STANDARD DIMENSION RATIO
C		INV	INVERT	SF	SQUARE FOOT
C&G	CURB & GUTTER	J		SHLDR	SHOULDER
CB	CATCH BASIN	JB	JUNCTION BOX	SI	STREET INTERSECTION
CI	CAST IRON			SPEC	SPECIFICATION (S)
CIP	CAST-IN-PLACE	L		SQ	SQUARE
CJ	CONTROL JOINT	LBS	POUNDS	SRB	SHOT ROCK BORROW
CL	CENTER LINE	LF	LINEAR FEET	SSC	SANITARY SEWER CONNECTION
CLR	CLEAR	LL	LIVE LOAD	SS	STAINLESS STEEL, SANITARY SEWER
CMP	CORRUGATED METAL PIPE	LOC	LOCATION	SSMH	STORM DRAIN MANHOLE
CO	CLEANOUT	LS	LUMP SUM	SSMH	SANITARY SEWER MANHOLE
C.O.E.	CORPS OF ENGINEERS	M		STA	STATION
COMM	COMMUNICATION	MAX	MAXIMUM	STD	STANDARD
CONC.	CONCRETE	MECH	MECHANICAL	STL	STEEL
CP	COMPLETE PENETRATION	MFR	MANUFACTURE (R)	STRG	STRONG
CPP	CORRUGATED POLYETHYLENE PIPE	MH	MANHOLE	SW	SIDEWALK
COR	CORNER	MJ	MECHANICAL JOINT	SWR	SEWER
CSC	COUNTERSINK	MI	MALLEABLE IRON	SY	SQUARE YARD
CTR	CENTER	MIN	MINIMUM	SYM	SYMMETRICAL
CY	CUBIC YARD	MLLW	MEAN LOWER LOW WATER	T	
D		MSF	1000 SQUARE FEET	T&B	TOP AND BOTTOM
DCP	DISSIMILAR PIPE COUPLING	MSE	MECHANICALLY STABILIZED EARTH	T&G	TONGUE AND GROOVE
DBL	DOUBLE	MTL	MATERIAL (S)	TBC	TOP BACK OF CURB
D/DIA	DIAMETER	N		TBD	TO BE DETERMINED
DEMO	DEMOLITION	N	NORTH	TBM	TEMPORARY BENCH MARK
DL	DEAD LOAD	NFS	NON FROST SUSCEPTIBLE	TD	TRENCH DRAIN
DIP	DUCTILE IRON PIPE	NIC	NOT IN CONTRACT	TEL	TELEPHONE
DIM	DIMENSION	NO	NUMBER	TEMP	TEMPERATURE, TEMPORARY
DN	DOWN	NTS	NOT TO SCALE	TH	TEST HOLE
DTL	DETAIL	O		THK	THICK
E		OBD	OVERBURDEN	TRANS	TRANSVERSE
E	EAST	OC	ON CENTER	TV	TELEVISION
EA.	EACH	OD	OUTSIDE DIAMETER	TYP	TYPICAL
EC	EDGE OF CONCRETE	OE	ORIGINAL GROUND	U	
ECC	END OF CURB CUT	OHE	OVERHEAD ELECTRICAL	UBC	UNIFORM BUILDING CODE
EG	EXISTING GRADE	OWS	OIL-WATER SEPARATOR	UE	UNDERGROUND ELECTRIC
EJ	EXPANSION JOINT	OPP	OPPOSITE	UMC	UNIFORM ELECTRICAL CODE
EL/ELEV	ELEVATION	P		UHMW	UNLESS OTHERWISE NOTED
ELEL	ELECTRICAL	P	PIPE	UON	UNIFORM PLUMBING CODE
EOP	END OF PROJECT	PC	POINT OF CURVATURE, PIECE	UPC	
EP	EDGE OF PAVEMENT	PCC	PRECAST CONCRETE, PIECE	V	
EQ	EQUAL	PED	PEDESTAL	VB	VALVE BOX
EQUIP	EQUIPMENT	PER	PERIMETER	VERT	VERTICAL
EST	ESTIMATE	PERF	PERFORATE (D)	VG	VALLEY GUTTER
EW	EACH WAY	PI	POINT OF INTERSECTION	W	
EXC	EXCAVATE	PLWD	PLYWOOD	W	WEST
EXIST	EXISTING	PL	PROPERTY LINE, PLATE	W/	WITH
F		POC	POINT ON CURVE	WD	WOOD
FC	FACE OF CURB	PRC	POINT OF REVERSE CURVATURE	WELDMT	WELDMENT
FD	FLOOR DRAIN	PROJ	PROJECT	WL	WATERLINE
FF	FINISHED FLOOR	PRKG	PARKING	WV	WATER VALVE
FG	FINISHED GRADE	PRV	PRESSURE REDUCING VALVE	W/O	WITHOUT
FH	FIRE HYDRANT, FLAT HEAD	PSI	POUND PER SQUARE INCH	X	
FIN	FINISH (ED)	PT	POINT, PRESSURE TREATED, POINT OF TANGENCY	XFMR	TRANSFORMER
FM	FORCE MAIN SEWER	PVC	POINT OF VERTICAL CURVATURE, POLY VINYL CHLORIDE	<PT	ANGLE POINT
FND	FOUNDATION	Q			
FOC	FACE OF CURB	QTY	QUANTITY		
FOOT	FOOT				
FT	FOOTING				
FL	FLOWLINE				
G					
GAL	GALLON				
GALV	GALVANIZED				
GB	GRADE BREAK				
GPM	GALLONS PER MINUTE				
GRD	GROUND				
GV	GATE VALVE				

REVISIONS

REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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SCALE:

DRAWN: LRG

APPROVED: CRS



CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

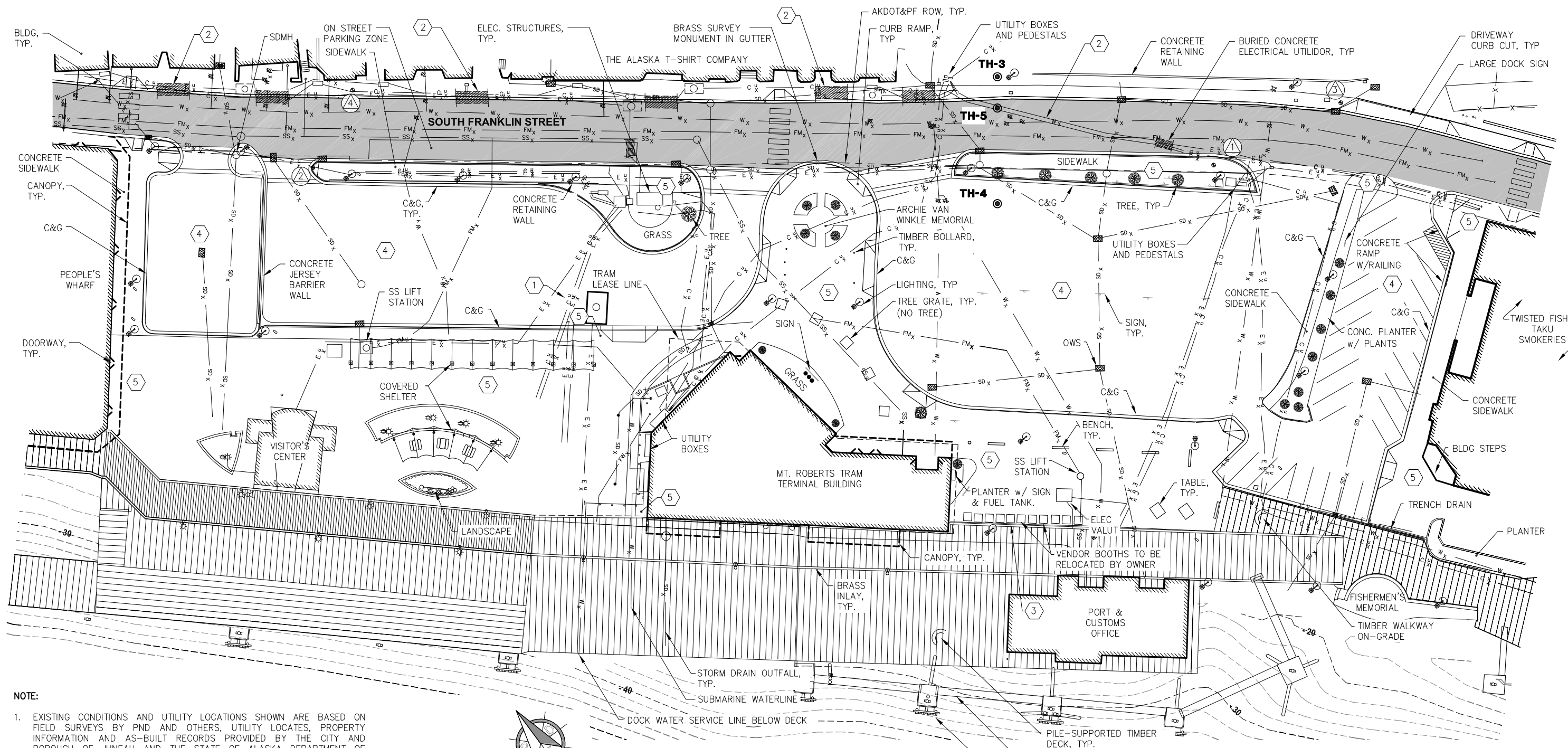
SHEET TITLE:

GENERAL NOTES, LEGEND AND
ABBREVIATIONS

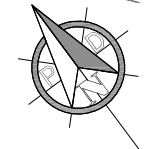
PND PROJECT NO.: 102081

1.02

SHEET
2 OF 52



- NOTE:**
- EXISTING CONDITIONS AND UTILITY LOCATIONS SHOWN ARE BASED ON FIELD SURVEYS BY PND AND OTHERS, UTILITY LOCATES, PROPERTY INFORMATION AND AS-BUILT RECORDS PROVIDED BY THE CITY AND BOROUGH OF JUNEAU AND THE STATE OF ALASKA DEPARTMENT OF TRANSPORTATION. FIELD VERIFY ALL EXISTING CONDITIONS AND UTILITIES.
 - HORIZONTAL CONTROL ESTABLISHED ON A LOCAL COORDINATE SYSTEM.
 - VERTICAL CONTROL ESTABLISHED ON NAVD 88 VERTICAL DATUM, REFERENCED TO THE NOAA TIDAL BENCHMARK 945 2210 TIDAL 9. THE BENCH MARK IS A DISK SET VERTICALLY IN THE SOUTH CORNER OF THE GASTINEAU APARTMENTS BUILDING AT 127 SOUTH FRANKLIN STREET. BENCHMARK EL=32.185' MLLW.
 - PROPERTY LINE LOCATIONS AND RIGHT-OF-WAY (ROW) ARE SHOWN APPROXIMATE AND ARE BASED ON RECORD PLATS AND FOUND MONUMENTS. A PROPERTY SURVEY WAS NOT CONDUCTED AS PART OF TOPOGRAPHIC SURVEY WORK.



EXISTING CONDITIONS

SURVEY CONTROL				
POINT	NORTHING	EASTING	ELEV. (MLLW)	DESCRIPTION
①	478065.88'	532656.98'	29.63'	PK NAIL IN CONTROL JOINT IN SIDEWALK
②	478370.36'	532333.21'	26.82'	MAGNAIL IN TBC JOINT IN SIDEWALK
③	478045.12'	532723.74'	30.86'	PK W/WASHER IN SIDEWALK
④	478384.65'	532373.72'	28.05'	PK W/WASHER IN SIDEWALK

EXISTING CONDITIONS SUMMARY TABLE	
NOTE	DESCRIPTION
①	BURIED UTILITY CONDUITS: (3) ELEC, (2) TV, (2) COMM.
②	BURIED CONCRETE ELECTRICAL CONDUIT CORRIDOR
③	CONCRETE RETAINING WALL BELOW DECK
④	ACP SURFACING
⑤	CONCRETE SURFACING



REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.

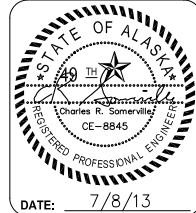
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DESIGN: NAM
DRAWN: PJD

CHECKED: TCB
APPROVED: CRS

SCALE: SCALE IN FEET
0 25 50 FT.



**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

SHEET TITLE:
**EXISTING CONDITIONS SURVEY
CONTROL AND BOREHOLE LOCATIONS**

PND PROJECT NO.: 102081

1.03
SHEET
3 OF 52

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 D2487. 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 (0.075 mm); if a greater percentage of the coarse grains is retained on the No. 4 (4.76 mm) sieve the coarse grained soil is classified as gravel, otherwise 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 the most recent version of ASTM D2487 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, shrinkage 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.

Standard Penetration Test (Blows/ft) Relative to Denstiy/Consistency

			Undrained Shear Strength		
N ₆₀	Density	Relative Density	N ₆₀	Consistency	psf
0 - 4	Very Loose	0 - 15%	< 2	Very Soft	< 250
4 - 10	Loose	15 - 35%	2 - 4	Soft	250 - 500
10 - 30	Medium	35 - 65%	4 - 8	Medium	500 - 1000
30 - 50	Dense	65 - 85%	8 - 15	Stiff	1000 - 2000
> 50	Very Dense	> 85%	15 - 30	Very Stiff	2000 - 4000
			> 30	Hard	> 4000

Ref: Terzaghi, Peck, and Mesri Soil Mechanics in Engineering Practice, 3rd Edition, pg 60-63
ASTM D1586 Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils
ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (USCS)

SAMPLER TYPE SYMBOLS

A	Auger Sample	Pb	Pitcher Barrel	St	1.4" Split Spoon w/ 47# Hammer
Bs	Bulk (grab) Sample	Sl	2.5" Split Spoon w/ 140# Hammer	Sx	2.0" Split Spoon w/ 47# Hammer
Cs	Core Barrel w/ Single Tube	Sm	2.5" Split Spoon w/ 300# Hammer	Sz	1.4 Split Spoon w/ 340# Hammer
Cd	Core Barrel w/ Double Tube	Sh	2.5" Split Spoon w/ 340# Hammer	Ts	Shelby Tube
Ct	Core Barrel w/ Triple Tube	Sp	2.5" Split Spoon, Pushed	Tm	Modified 2.5 O.D. Shelby Tube
HI	2.5" Split Spoon w/ Air Hammer	Ss	1.4" Split Spoon w/ 140# Hammer		
Hs	1.4" Split Spoon w/ Air Hammer				

Note: Split Spoon size refers to sampler inside diameter.

P | N | D

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Checked: PND
Project No.: 102081
Date: Oct 2012

STANDARD BOREHOLE
LOG DETAILS

BOREHOLE LOGS

FIGURE B-1

Depth (Feet)	Water Table	GRAPHIC SYMBOL	SOIL DESCRIPTION	SAMPLES				GRAPH	COMMENTS	Elevation (Feet)		
			Soil Name, Color, Moisture Condition, Relative Density, Soil Structure, Mineralogy, Other Information	Number	Type	Location	Recovery (%)	Penetration Blows per 6/Inch (per Foot)*	■ BLOW COUNT (BPF) ■ 20 40 60 80		Casing Depth, Drilling Rate, Fluid Loss, Drill Pressure, Tests, Instrumentation Additional Information	
									● POCKET PEN. (TSF) ● 1 2 3 4			
									▲ VANE SHEAR (TSF) ▲ 2 4 6 8			
0			0' - 0.30' A.C. PAVEMENT								24.43	
1			POORLY-GRADED GRAVEL W/ SILT AND SAND (GP-GM) Gray, Moist, Dense, Subangular	1	Ss		30	20-20-25 (45)		Begin drilling 10/24/03 8:00 a.m. 2' to 3' - Hard, loud drilling (Cobbles/Boulder encountered)	22.43	
2												
1	2	3	4	5	6	7	8	9	10	11	12	

COLUMN DESCRIPTIONS

- 1 Depth
- Depth (in feet) below the ground surface.
- 2 Water Level
- Groundwater level recorded while drilling. Depths and times are recorded in comments column.
- 3 Graphic Log
- Graphic depiction of materials encountered.
- 4 Soil Description
- Description of materials encountered, including USCS soil descriptions.
- 5 Sample Number
- Sample identification number.
- 6 Sample Type
- Type of soil sample collected at depth interval depicted; symbols explained on Fig. B-1.
- 7 Sample Location
- Location soil sample taken.
- 8 Sample Recovery
- Percentage of sample recovered.
- 9 Sample Blows
- Number of blows to advance driven sampler each 6-inch interval using sampler type specified with a 30-inch drop. Blows per foot given in parentheses.
- 10 Graphs
- Graphic log depicting blow counts per foot with a specified split spoon, Pocket Penetration and Vane Shear tests depicted where taken on fine grained soils.
- 11 Comments
- Comments or observations on drilling/sampling by driller or PND field personnel.
- 12 Elevation
- Elevation (in feet) with respect to Mean Lower Low Water (MLLW) or other datum where specified.

GENERAL NOTES

1. Field descriptions may have been modified to reflect laboratory test results.
2. 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.
3. Split spoon blow counts shown are uncorrected raw data. Various hammer sizes and split spoon sizes were used and have not been corrected to a Standard Penetration Test (SPT). Blow counts may vary substantially between SPT and these methods.

P | N | D

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Drawn: PND
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Project No.: 102029.04
Date: Oct 2012

STANDARD BOREHOLE
LOG DETAILS

BOREHOLE LOGS

FIGURE B-2



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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ENGINEERS, INC.

9360 Glacier Highway, Ste. 100
Juneau, Alaska 99801
Phone: 907-586-2093
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DRAWN: PJD APPROVED: CRS



CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE: STANDARD BOREHOLE LOG DETAILS

PND PROJECT NO.: 102081

1.05
SHEET 5 OF 52

Soil Legend

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	Well-graded gravels, gravel sand mixtures, little or no fines
				GP	Poorly graded gravels, gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly graded sands, gravelly sands, little or no fines
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	Silty sands, sand-silt mixtures
				SC	clayey sands, sand-clay mixtures
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts and organic silty clays of low plasticity
				MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		CH	Inorganic clays of high plasticity, fat clays
				OH	Organic clays of medium to high plasticity, organic silts
				PT	Peat and other highly organic soils
			HIGHLY ORGANIC SOILS		

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Stratigraphic Contact

- Distinct contact between soil strata or geologic units
- Approximate location of soil strata change within a geologic soil unit

Laboratory / Field Tests List of Abbreviations

%F	Percent Fines	HA	Hydrometer Analysis	PP	Pocket Penetrometer
AL	Atterberg Limits	LMA	Limited Mechanical Analysis	SA	Sieve Analysis
CP	Laboratory Compaction test	MC	Moisture Content	TV	Torvane
CO	Consolidation test	DD	Dry Density	TX	Triaxial Shear
DP	Depth "Peat" Probe	OC	Organic Content	UC	Unconfined Compression
DS	Direct Shear	PM	Permeability or Hydraulic Conductivity	VS	Vane Shear

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ENGINEERS, INC.

Designed: PND

Drawn: PND

Checked: PND

Project No.: 102029.04

Date: Oct 2012

STANDARD BOREHOLE LOG DETAILS

BOREHOLE LOGS

FIGURE B-3

BOREHOLE TH-3

1 of 1

Depth (feet)	Water Table	Graphic Symbol	SOIL DESCRIPTION	SAMPLES					GRAPH				COMMENTS	Elevation (feet)	
			Soil Name, Color, Moisture Content, Relative Density, Soil Structure, Mineralogy, Other Information	Number	Type	Location	Recovery % (ROD %)	Penetration Blows per 6/Inch (per foot) or {Rock Quality}	BLOW COUNT				Casing Depth, Drilling Rate, Fluid Loss, Drill Pressure, Tests, Instrumentation, Additional Information		
									POCKET PEN (tsf)						
									VANE SHEAR (tsf)						
0.0			ASPHALT											Begin Drilling: 10/5/11; Time: 10:30 AM	29.0
2.5			FILL brown, dry, loose; 70% fine to coarse, angular gravel; 25% sand; 5% fines											@ 3 ft. depth: auger cuttings begin forming a billowing, ropy mass	26.5
5.0			GRAVELLY SILT (ML) greenish gray, wet, very soft; 15% fine to coarse, angular gravel; 10% sand; 75% fines; low plasticity; no dilatancy												Terminate Drilling: 10/5/11; Time: 10:50 AM
			@ 5 ft REFUSAL: no auger advance - drill rig bouncing - no coring performed; auger bit sitting on either large boulder or probable bedrock; when pulling auger sections, borehole filled with water												



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CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

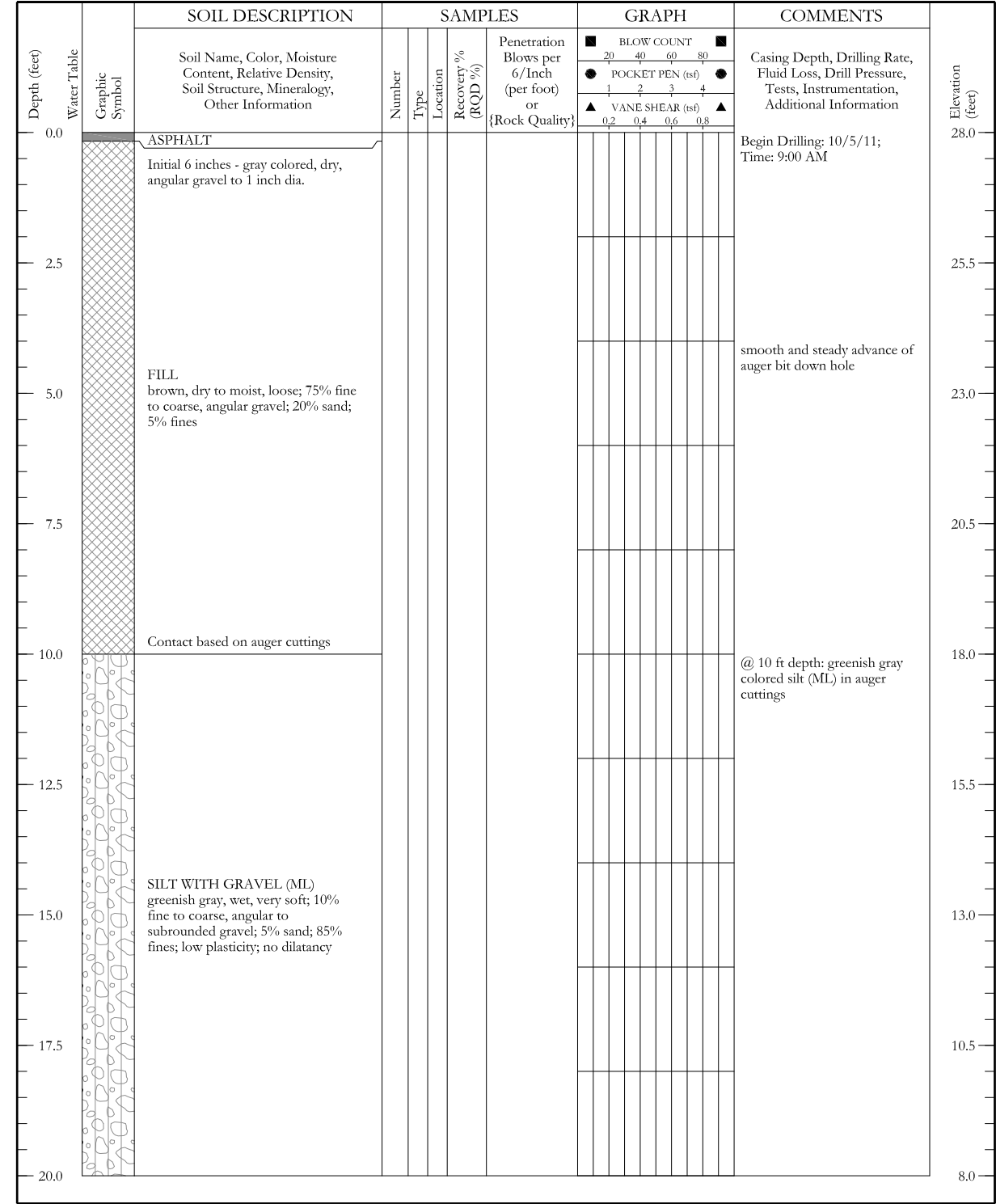
SHEET TITLE: BOREHOLE LOGS

PND PROJECT NO.: 102081

1.06
SHEET 6 OF 52

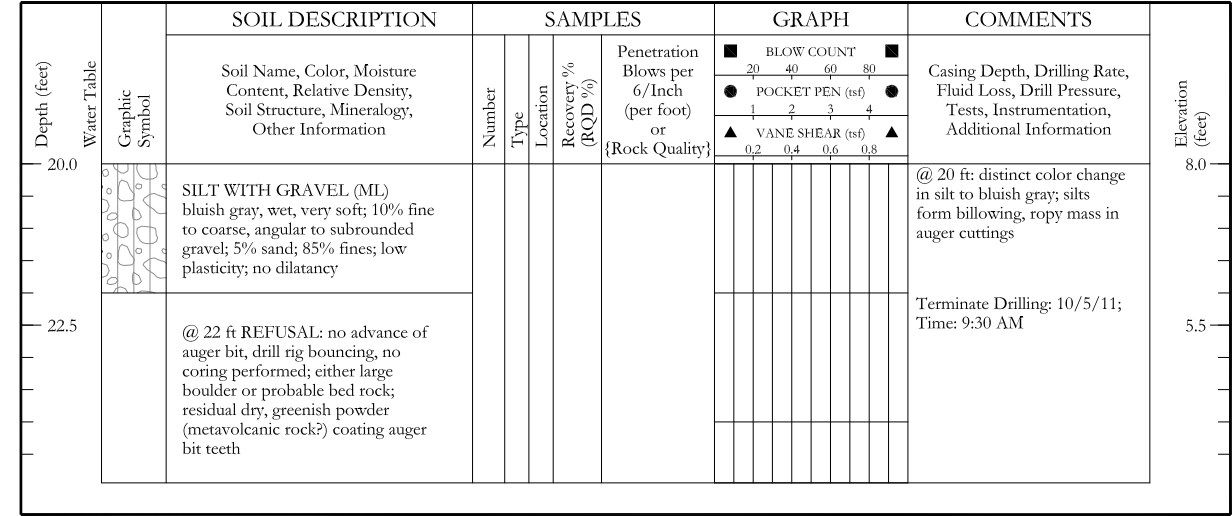
BOREHOLE TH-4

1 of 2



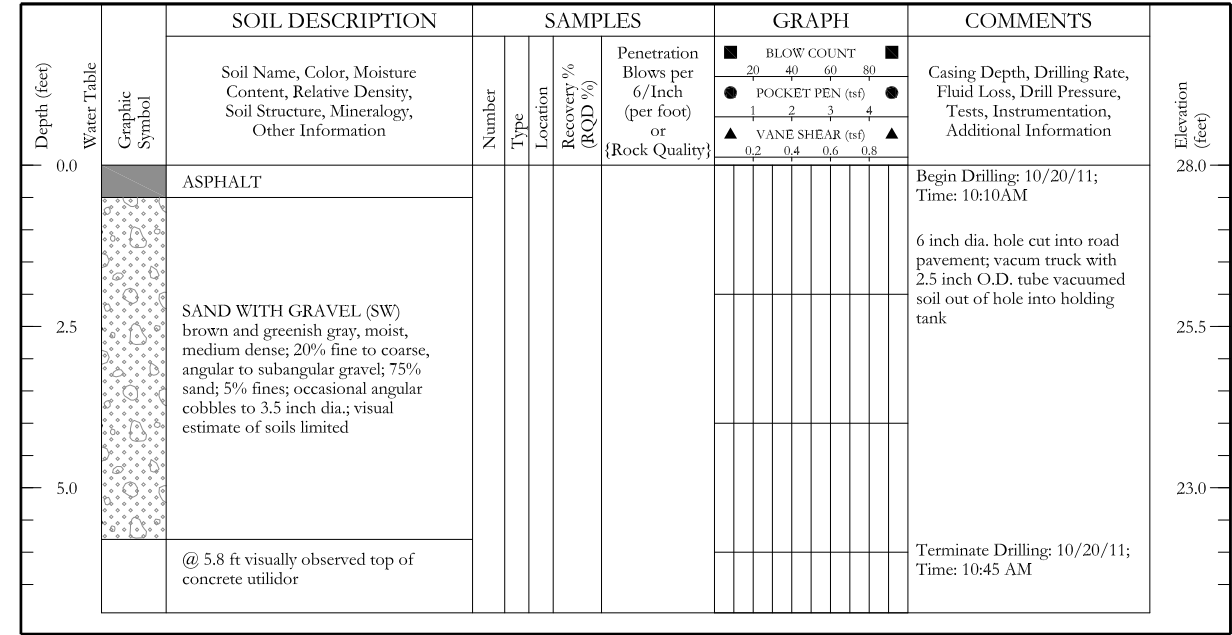
BOREHOLE TH-4

2 of 2



BOREHOLE TH-5

1 of 1



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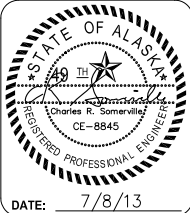
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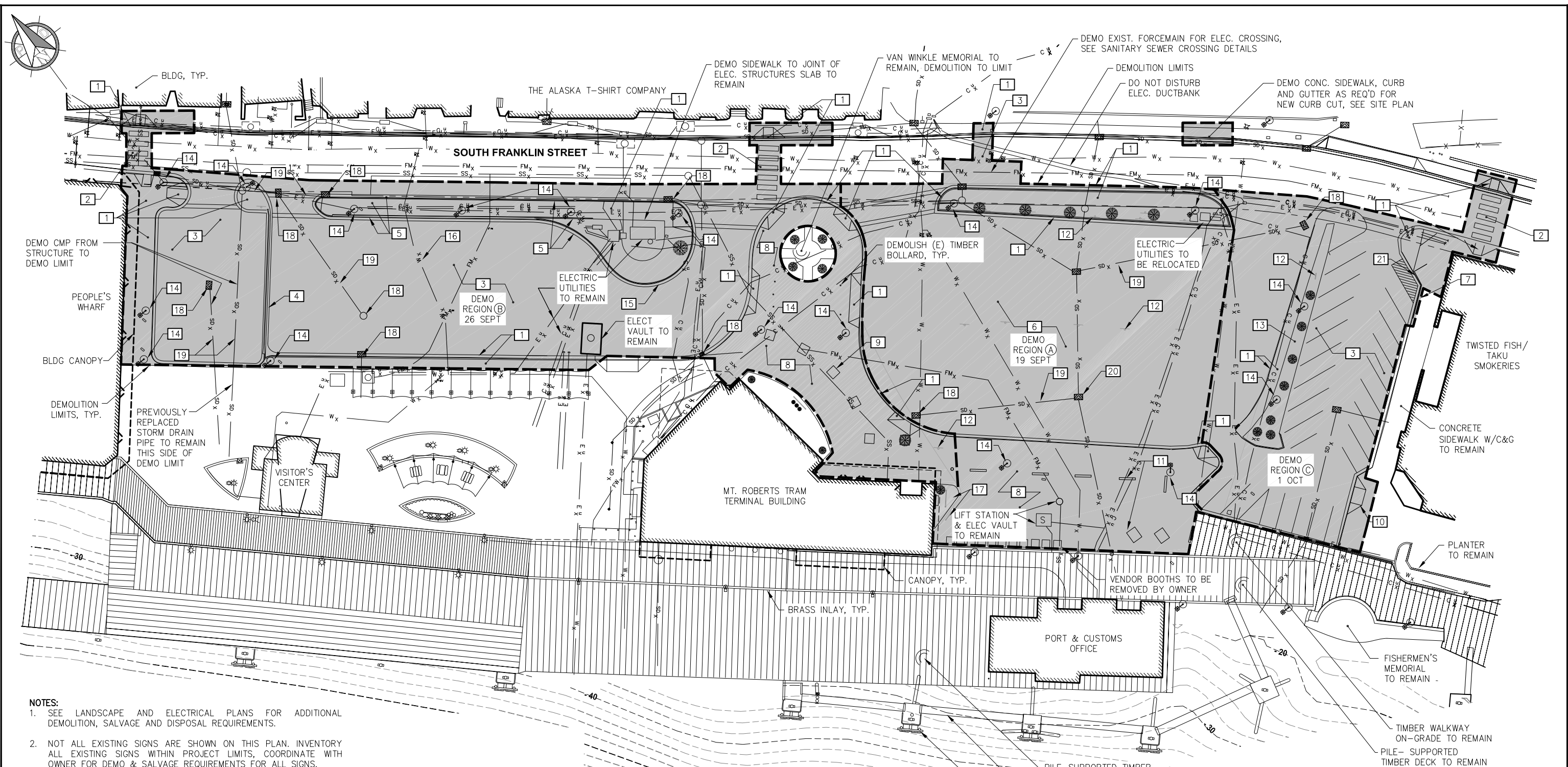
CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
BOREHOLE LOGS

PND PROJECT NO.: 102081

DATE: 7/8/13

1.07
SHEET
7 OF 52



- NOTES:**
- 1. SEE LANDSCAPE AND ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION, SALVAGE AND DISPOSAL REQUIREMENTS.
 - 2. NOT ALL EXISTING SIGNS ARE SHOWN ON THIS PLAN. INVENTORY ALL EXISTING SIGNS WITHIN PROJECT LIMITS, COORDINATE WITH OWNER FOR DEMO & SALVAGE REQUIREMENTS FOR ALL SIGNS.
 - 3. NOT ALL EXISTING SITE FURNISHINGS ARE SHOWN ON THIS PLAN. REMOVE AND SALVAGE ALL SITE FURNISHINGS.
 - 4. SEE SITE PLAN FOR COORDINATES FOR UPLANDS DEMOLITION LIMITS.
 - 5. ALL SUBGRADE UTILITIES TO REMAIN UNLESS NOTED OTHERWISE.
 - 6. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO DOT&PF ROW TO OBTAIN APPROVAL PRIOR TO ANY CONSTRUCTION WITHIN THE DOT&PF ROW.

DIAL BEFORE YOU DIG!
586-1333
UNDERGROUND POWER, TELEPHONE, T.V., COMMUNICATIONS, WATER AND SEWER LINES ARE IN THE AREA. UTILITIES SHOWN HERE DO NOT SUBSTITUTE FOR FIELD LOCATES.

DEMOLITION PLAN

LEGEND

X	DEMOLITION ITEM, SEE DEMOLITION SUMMARY TABLE
A	BEGIN DEMO ON OR AFTER SEPT 19
B	BEGIN DEMO ON OR AFTER SEPT 26
C	BEGIN DEMO ON OR AFTER OCT. 1

DEMOLITION SUMMARY TABLE	
ITEM	DESCRIPTION
1	DEMOLISH CONCRETE WALKWAYS, SIDEWALKS, CURB, GUTTER & CURB CUTS.
2	REMOVE PAINTED MARKING ONLY, NO ACP DEMO.
3	DEMOLISH ACP.
4	DEMOLISH CONCRETE BARRIER WALL, CURBS.
5	DEMOLISH CONCRETE SIDEWALK, RETAINING WALLS, CURB & GUTTER.
6	DEMOLISH ACP. REMOVE AND DISPOSE UNSUITABLE MATERIAL, AND EXTRACT PILES, PER TYP SECTION.
7	DEMOLISH CONCRETE WALKWAY, CURBS & CURB WALLS.
8	DEMOLISH CONCRETE APRON.
9	DEMOLISH LANDSCAPE GRATES.
10	DEMOLISH CONCRETE APRON, CURB & CURB CUT.
11	SALVAGE ALL SITE FURNISHINGS & STORE.
12	SALVAGE ALL SIGNS ON SITE, INVENTORY & STORE.
13	DEMOLISH CONCRETE PLANTER AND SIDEWALK, SALVAGE PLANTINGS, SEE LANDSCAPE DEMOLITION PLAN.
14	SALVAGE LIGHTPOLE AND RELOCATE, SEE ELEC. DRAWINGS.
15	DEMOLISH CURB & GUTTER.
16	DEMOLISH CAST IRON WATER LINE, SEE WATER DETAILS.
17	DEMOLISH PLANTER & BICYCLE RACK, SALVAGE PLANTING, SIGN & RACK, SEE LANDSCAPE DEMOLITION PLAN.
18	DEMOLISH STORMDRAIN CATCHBASIN.
19	DEMOLISH STORMDRAIN PIPE.
20	DEMOLISH STORMDRAIN INLET. CATCHBASIN STRUCTURE TO REMAIN UNDISTURBED.
21	DEMOLISH HANDRAIL.

DEMOLISH = REMOVE & DISPOSE AT CONTRACTOR PROVIDED DISPOSAL SITE

SALVAGE = REMOVE, SALVAGE & SUITABLY STORE AT OWNER DESIGNATED LOCATION OR RELOCATE AS SHOWN ON PLANS. OWNER’S DESIGNATED STORAGE LOCATION SHALL BE AT OR NEARBY THE AURORA HARBOR HARBOR MASTER’S OFFICE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSPORTING, LOADING, UNLOADING AND GENERAL HANDLING OF SALVAGED MATERIALS. STORAGE OF SALVAGED MATERIALS SHALL BE COORDINATED WITH THE OWNER AT ALL TIMES. SPECIFIC LOCATIONS FOR MATERIALS TO BE SALVAGED AND STORED SHALL BE DICTATED BY THE OWNER AND SHALL BE AT THE OWNER’S SOLE DISCRETION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED DUE TO HIS ACTIVITIES. DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.

NOTE:
VENDOR BOOTHS SHALL BE REMOVED & SALVAGED BY OWNER, COORDINATE AS REQUIRED.



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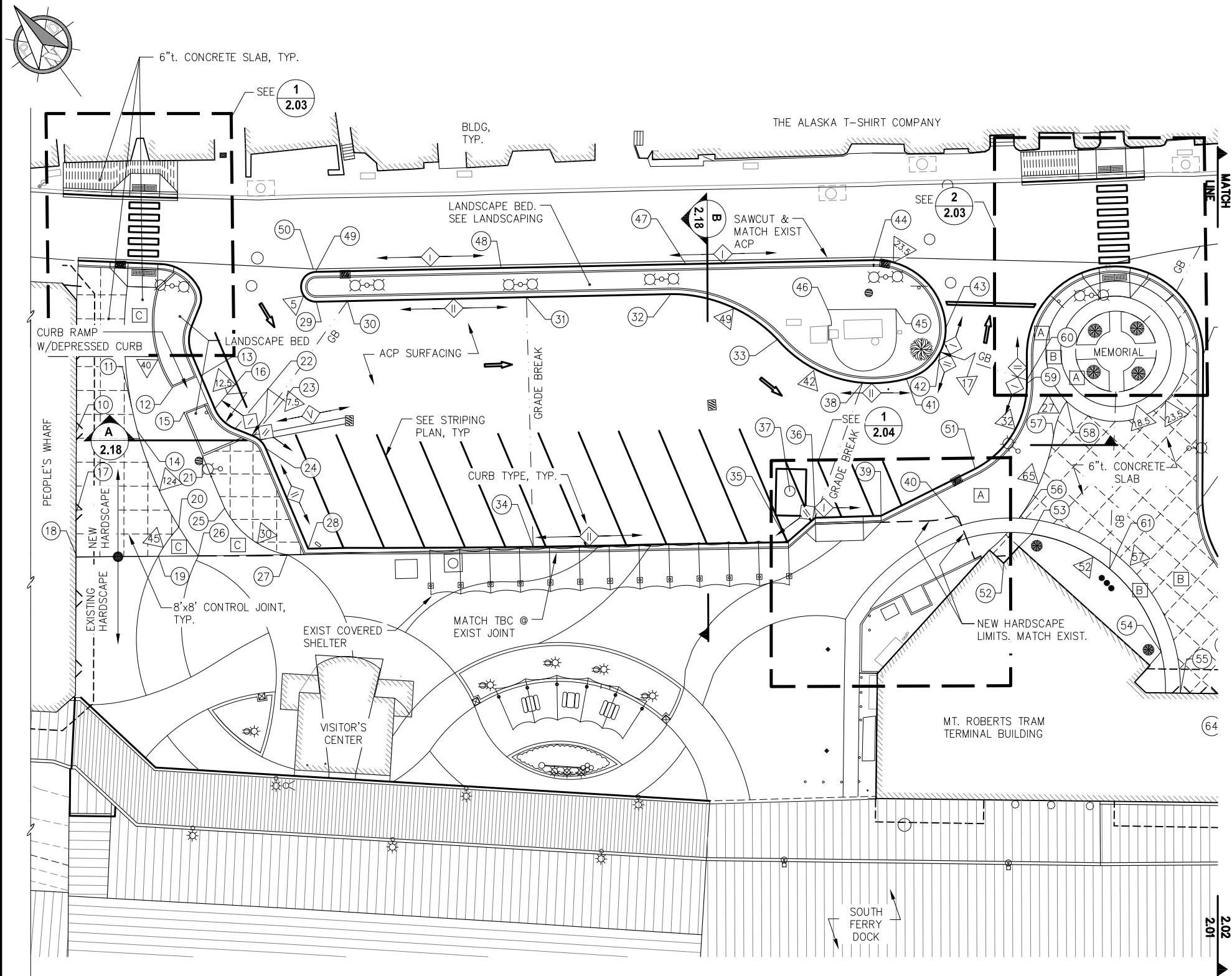
CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
DEMOLITION SUMMARY TABLE

PND PROJECT NO.: 102081

1.09

SHEET
9 OF 52



- NOTE:
1. SEE LANDSCAPE SHEETS FOR ALL LANDSCAPE DETAILS.
 2. SEE PLAN DETAILS FOR LAYOUT POINTS NOT SHOWN.
 3. SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL DETAILS.
 4. CONCRETE SHALL BE STANDARD COLOR UNLESS OTHERWISE NOTED.
 5. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO DOT&PF ROW & OBTAIN APPROVAL PRIOR TO ANY CONSTRUCTION WITHIN THE DOT&PF ROW.

PARTIAL SITE PLAN

COLOR CONCRETE SCHEDULE	
MARK	COLOR
A	DARK GRAY SPARKLECRETE #860
B	STANDARD CONCRETE
C	TAUPE 677

LAYOUT POINT TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	478408.34	532234.27	27.53	BLDG, MATCH
11	478401.20	532253.17	27.10	EC, JOINT
12	478395.74	532267.08	26.80	EC
13	478391.77	532276.68	26.21	EP
14	478394.01	532248.64	27.05	EC, JOINT
15	478387.21	532264.04	26.60	EC
16	478380.71	532272.11	26.00	PC, EP
17	478389.36	532214.84	27.46	BLDG, MATCH
18	478379.14	532204.56	27.42	BLDG, MATCH
19	478359.55	532223.72	27.16	PC, MATCH
20	478361.44	532235.44	26.95	PC, JOINT
21	478372.45	532257.94	26.50	COR, JOINT
22	478371.14	532272.12	25.80	PT, EP
23	478365.08	532274.63	25.70	GB, PC, EP
24	478359.34	532274.64	25.80	PT, EP
25	478354.94	532250.70	26.80	PC, JOINT
26	478350.08	532233.21	27.00	PC, MATCH
27	478329.14	532254.31	27.03	PC, MATCH
28	478325.60	532260.69	26.65	COR, EP
29	478381.65	532321.43	26.75	PT, EP
30	478374.37	532328.92	26.90	GB, EP
31	478332.64	532371.88	27.20	GB, EP
32	478298.94	532406.58	27.25	PC, EP
33	478262.88	532420.81	27.65	PRC, EP
34	478272.37	532313.95	27.45	GB, EP
35	478212.90	532374.78	27.90	COR, EP
36	478211.97	532387.15	27.93	GB, COR, EP
37	478224.26	532387.53	27.60	ELEC VAULT
38	478232.39	532430.46	28.20	GB, EP
39	478196.79	532403.06	27.65	COR, EP
40	478175.39	532419.70	27.78	PC, MATCH
41	478222.95	532441.73	27.85	PCC, EP
42	478221.11	532456.02	27.70	GB, EP
43	478225.43	532462.99	27.32	PCC, EP
44	478258.64	532462.23	26.88	PT, EP
45	478241.83	532455.84	27.30	COR, EC
46	478257.85	532439.67	27.45	COR, EC
47	478302.43	532417.22	27.10	EP
48	478345.51	532372.92	27.00	EP

- NOTE:
1. ELEV. ON MATCH POINTS GIVEN FOR REFERENCE PURPOSES ONLY. MATCHING EXISTING SURFACES AT ALL MATCH POINTS SHALL TAKE PRECEDENCE.
 2. CONTRACTOR SHALL VERIFY AND RECORD ALL MATCH POINTS PRIOR TO DEMO ACTIVITIES AND NOTIFY ENGINEER OF DISCREPANCIES.
 3. ALL POINTS GIVEN AT ACP PROJECT LIMITS ARE INITIAL SAWCUT POINTS. CUT BACK ACP MIN 1' PRIOR TO PLACEMENT OF NEW ACP.

LAYOUT POINT TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
49	478388.82	532328.40	26.76	PC, EP
50	478390.05	532328.55	26.78	EP, MATCH
51	478185.38	532436.37	27.00	PC, EP
52	478156.42	532420.60	28.02	BLDG, MATCH
53	478156.57	532434.05	27.83	COR, EC
54	478098.02	532436.43	27.88	COR, EC
55	478083.93	532431.31	27.88	PC, EC, BLDG, MATCH
56	478163.32	532435.00	27.76	POC, JOINT
57	478174.47	532462.73	28.02	PRC, JOINT
58	478179.42	532473.98	28.30	PC, JOINT
59	478193.05	532468.84	27.75	PRC, EP
60	478193.93	532469.73	27.75	GB, EP
61	478129.84	532444.19	28.09	GB, EC



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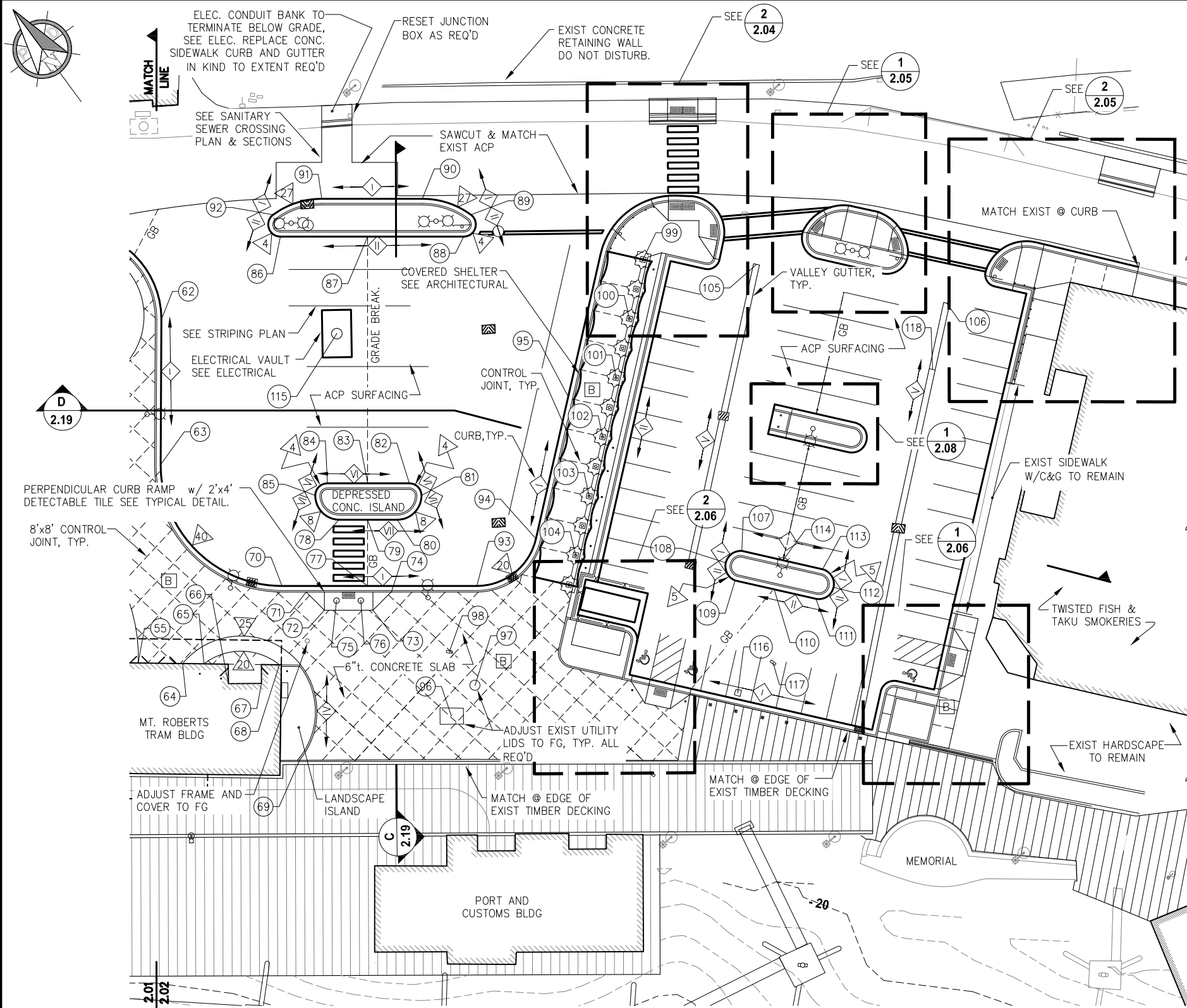


CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
PARTIAL SITE PLAN

PND PROJECT NO.: 102081

2.01
SHEET
10 OF 52



- NOTE:
- 1. SEE LANDSCAPE SHEETS FOR ALL LANDSCAPE DETAILS.
 - 2. SEE PLAN DETAILS FOR LAYOUT POINTS NOT SHOWN.
 - 3. SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL DETAILS.
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PARTIAL SITE PLAN

COLOR CONCRETE SCHEDULE	
MARK	COLOR
A	DARK GRAY SPARKLECRETE #860
B	STANDARD CONCRETE

LAYOUT POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
62	478157.78	532517.08	27.65	PT, EP
63	478124.41	532482.88	27.00	PC, EP
64	478073.22	532441.25	27.80	PC, JOINT
65	478068.14	532446.14	27.76	PC, JOINT
66	478057.82	532447.15	27.82	BLDG
67	478050.09	532454.84	27.80	BLDG
68	478050.22	532463.35	27.74	PC, JOINT
69	478023.38	532445.57	28.11	PC, JOINT
70	478067.85	532482.47	26.80	PT, EP
71	478060.75	532486.65	27.15	COR, RAMP
72	478052.26	532486.59	27.30	COR, RAMP
73	478040.87	532497.82	27.30	COR, RAMP
74	478040.73	532506.36	27.20	COR, RAMP
75	478051.64	532491.66	27.04	BOL
76	478045.94	532497.27	27.04	BOL
77	478047.76	532502.27	26.80	GB, EP
78	478069.78	532511.07	27.15	PT, EP
79	478063.07	532517.81	27.15	GB, EP
80	478056.11	532524.67	27.15	PC, EP
81	478056.03	532535.98	27.21	PCC, EP
82	478061.69	532536.02	27.25	PT, EP
83	478071.69	532526.57	27.40	GB, EP
84	478080.92	532517.07	27.25	PC, EP
85	478080.96	532511.41	27.13	PCC, EP
86	478149.06	532564.10	28.00	PT, EP
87	478128.51	532584.18	28.53	GB, EP
88	478106.02	532606.52	28.45	PC, EP
89	478109.40	532613.33	28.54	PCC, EP
90	478124.48	532605.84	28.62	PT, EP
91	478148.10	532582.56	28.31	PC, EP
92	478155.81	532567.58	28.09	PCC, EP
93	478022.12	532527.54	26.50	PC, EP
94	478019.16	532552.32	26.30	PT, EP
95	478044.46	532593.13	27.20	EP
96	477998.04	532491.15	27.86	RIM, VAULT
97	477999.57	532503.81	27.65	RIM, SSMH
98	478013.31	532505.74	27.50	RIM, JBOX
99	478058.64	532642.58	29.36	FG, COLUMN

- NOTE:
- 1. ELEV. ON MATCH POINTS GIVEN FOR REFERENCE PURPOSES ONLY, MATCHING EXISTING SURFACES AT ALL MATCH POINTS SHALL TAKE PRECEDENCE.
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 - 3. ALL POINTS GIVEN AT ACP PROJECT LIMITS ARE INITIAL SAWCUT POINTS. CUT BACK ACP MIN 1' PRIOR TO PLACEMENT OF NEW ACP.

LAYOUT POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	478048.11	532625.59	28.81	FG, COLUMN
101	478037.58	532608.59	28.25	FG, COLUMN
102	478027.04	532591.60	27.74	FG, COLUMN
103	478016.51	532574.60	27.31	FG, COLUMN
104	478005.98	532557.61	27.07	FG, COLUMN
105	478030.87	532667.76	28.70	CL VG
106	477977.25	532702.67	29.00	CL VG
107	477968.01	532597.08	26.80	PC, EP
108	477969.02	532590.57	26.70	POC, EP
109	477962.74	532588.58	26.50	PT, EP
110	477951.50	532595.54	26.80	GB, EP
111	477939.54	532602.96	26.60	PC, EP
112	477938.05	532609.76	26.80	POC, EP
113	477944.81	532611.46	26.91	PT, EP
114	477956.17	532604.42	27.11	GB, EP
115	478113.36	532554.40	27.95	RIM, VAULT
116	477936.11	532562.80	26.83	RIM, JBOX
117	477934.83	532578.07	26.67	RIM, JBOX
118	477965.23	532683.84	28.20	GB, VG



REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.

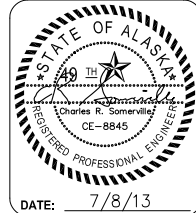
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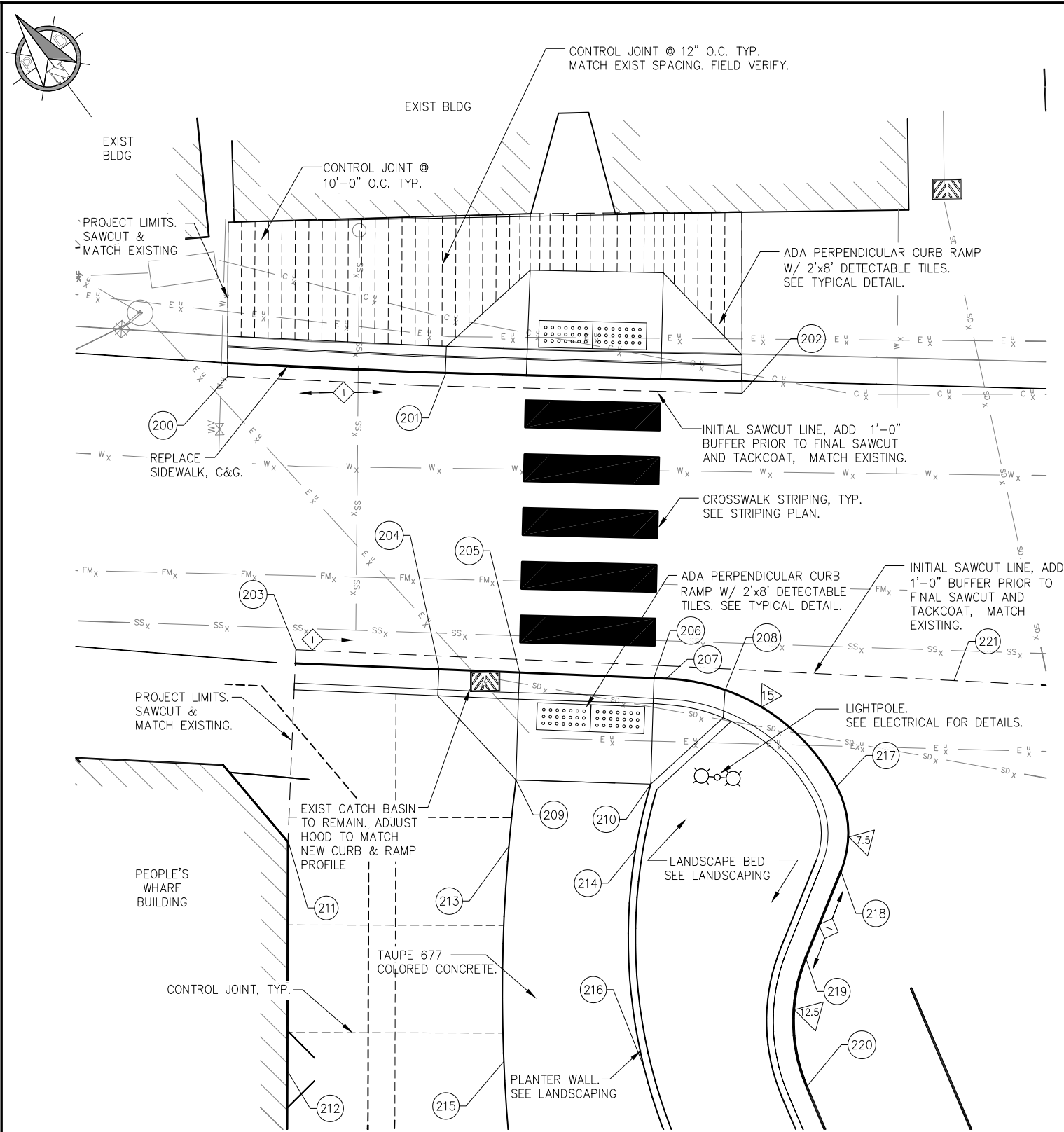


**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

SHEET TITLE:
PARTIAL SITE PLAN

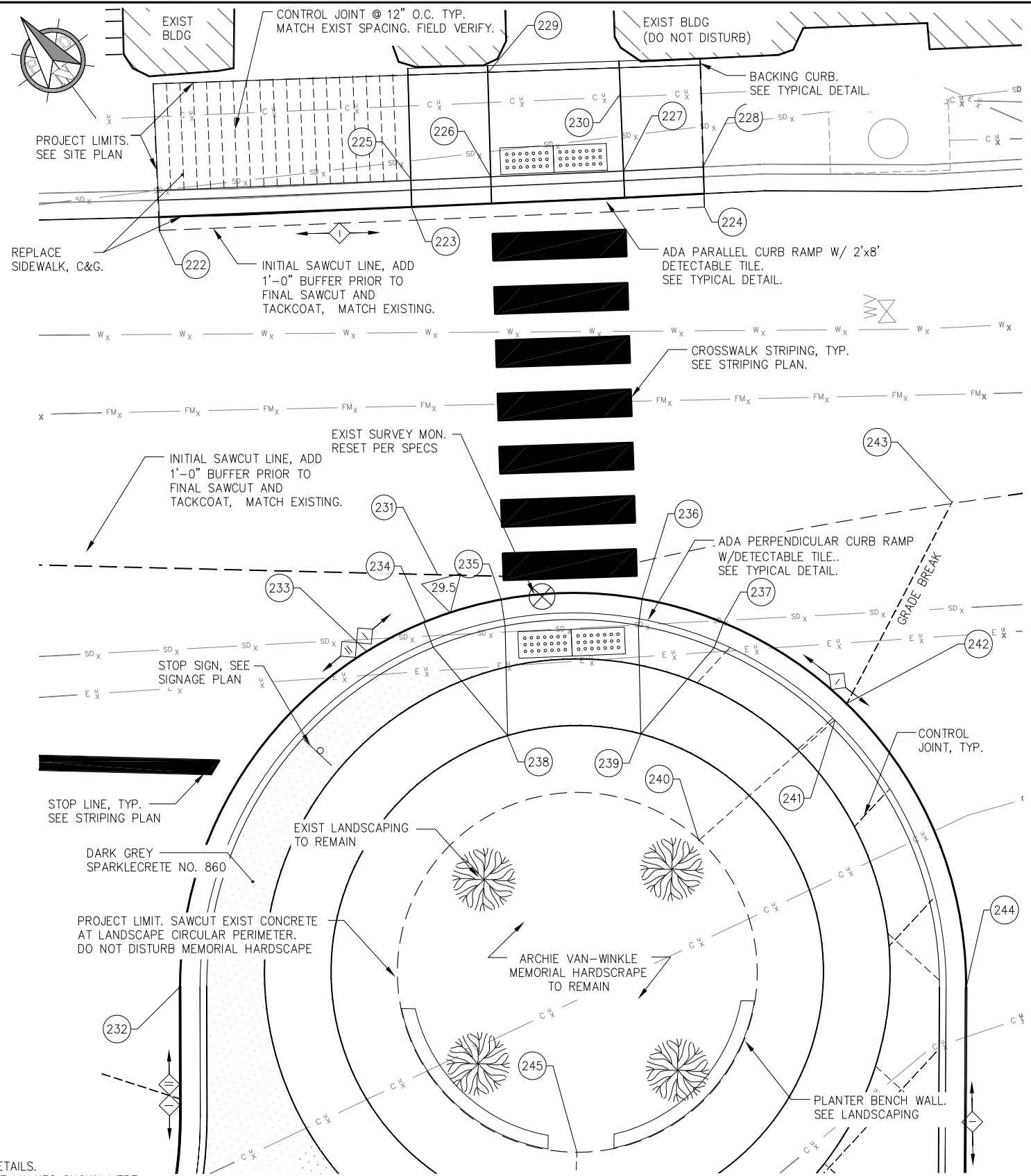
PND PROJECT NO.: 102081

2.02
SHEET
11 OF 52



1
2.01
PEOPLE'S WHARF CROSSWALK
PLAN DETAIL

NOTE:
1. SEE LANDSCAPE SHEETS FOR ALL LANDSCAPE DETAILS.
2. SEE POINT LAYOUT TABLE SHEETS FOR ALL POINT VALUES SHOWN HERE.
3. SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL DETAILS.
4. CONCRETE SHALL BE STANDARD COLOR UNLESS OTHERWISE NOTED.



2
2.01
MEMORIAL CROSSWALK
PLAN DETAIL



REVISIONS				
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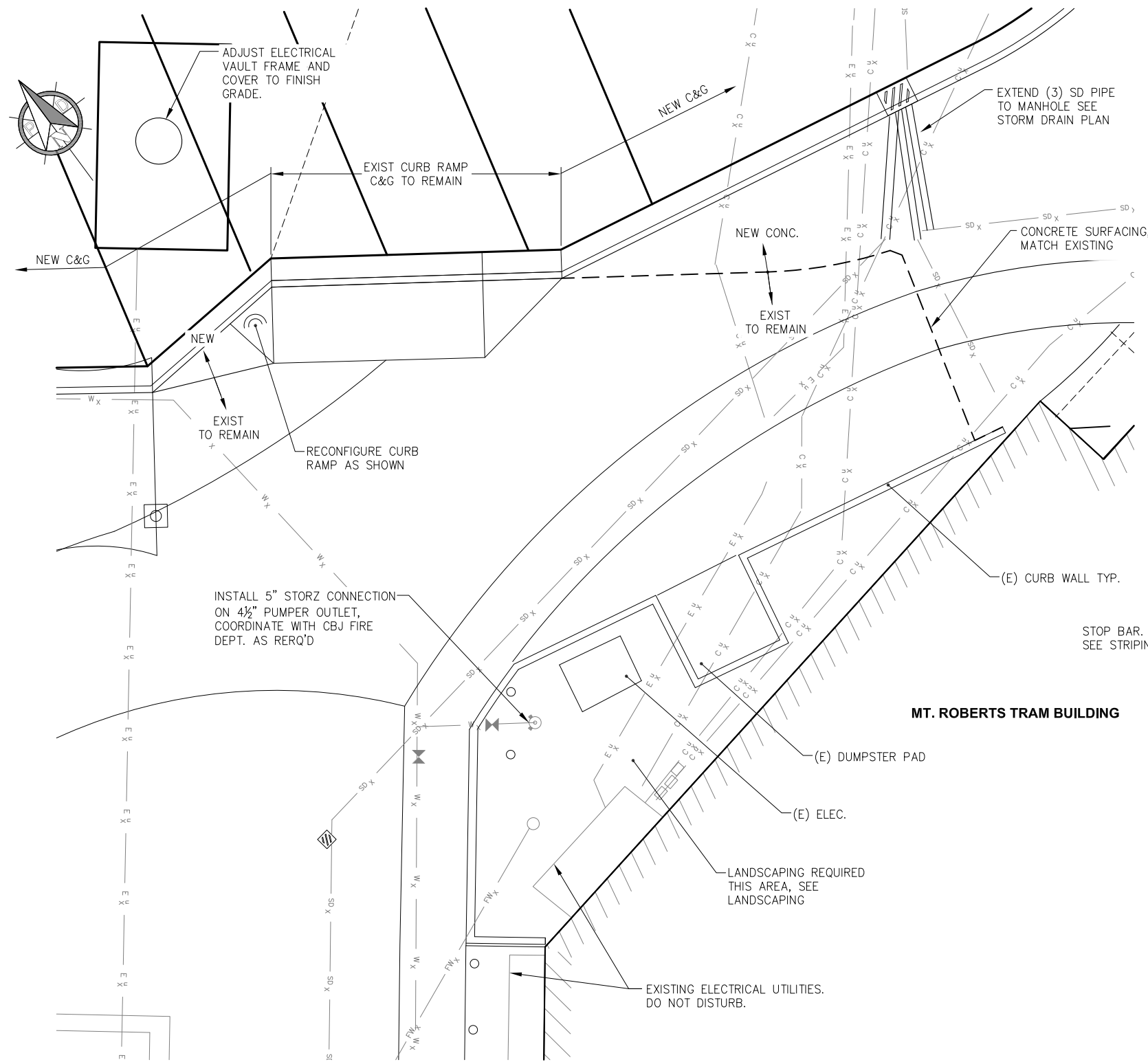


CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
ENLARGED PLAN DETAILS

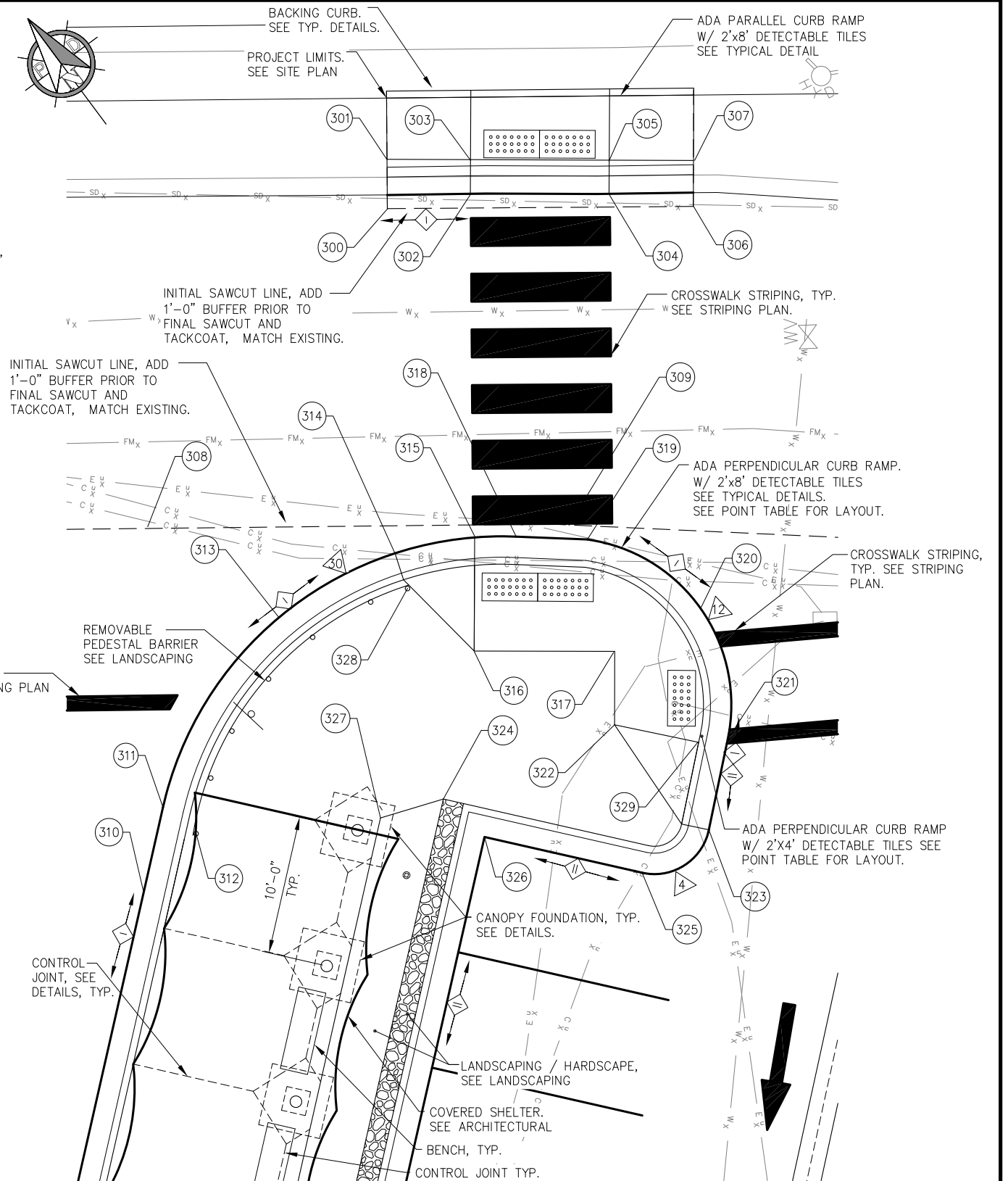
PND PROJECT NO.: 102081

2.03
SHEET
12 OF 52



1
2.01
EMERGENCY VEHICLE ACCESS
PLAN DETAIL

- NOTE:**
1. SEE LANDSCAPE SHEETS FOR ALL LANDSCAPE DETAILS.
 2. SEE POINT LAYOUT TABLE SHEETS FOR ALL POINT VALUES SHOWN HERE.
 3. SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL DETAILS.



2
2.02
COVERED SHELTER CROSSWALK
PLAN DETAIL



REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.

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APPROVED: CRS

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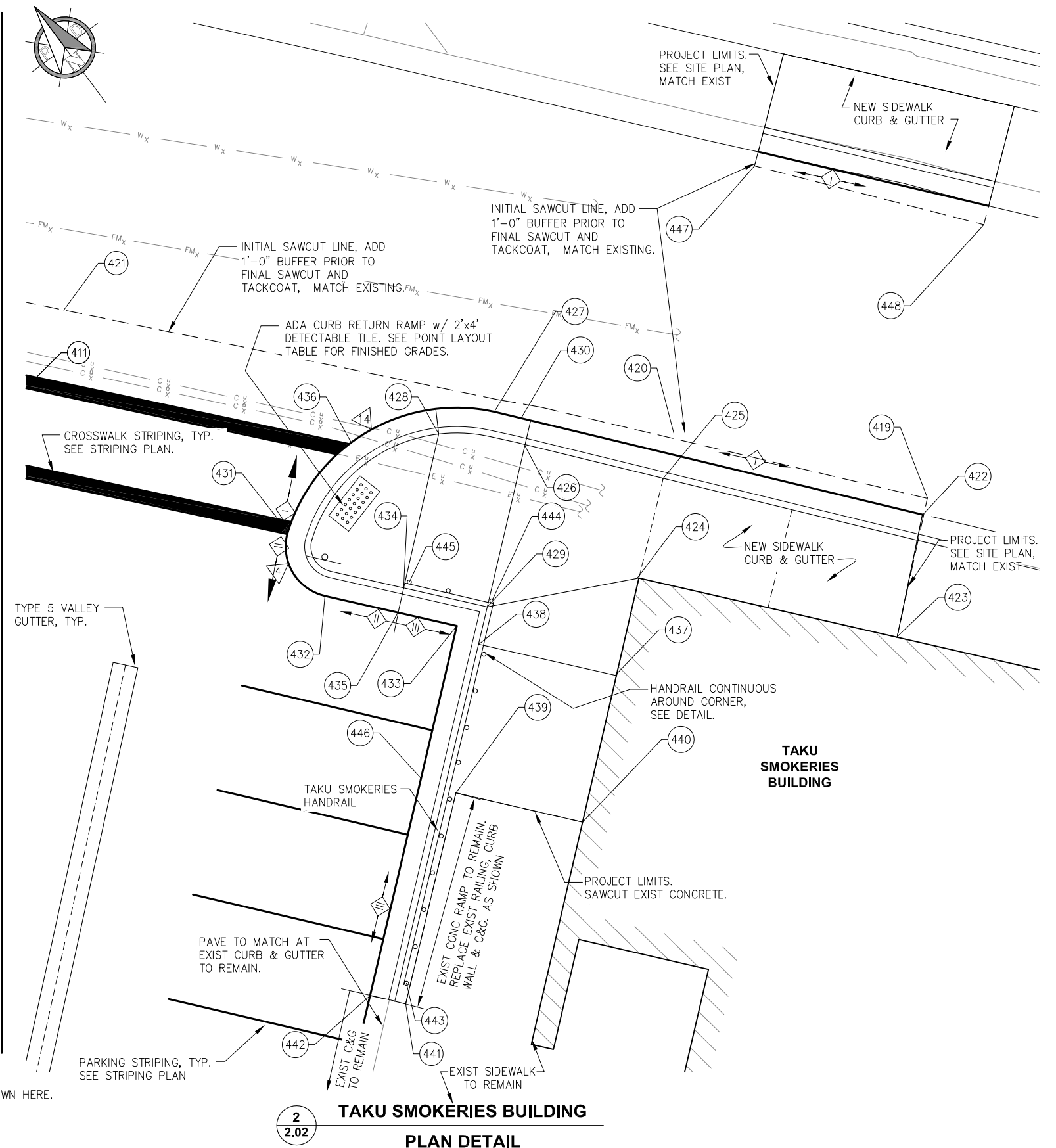
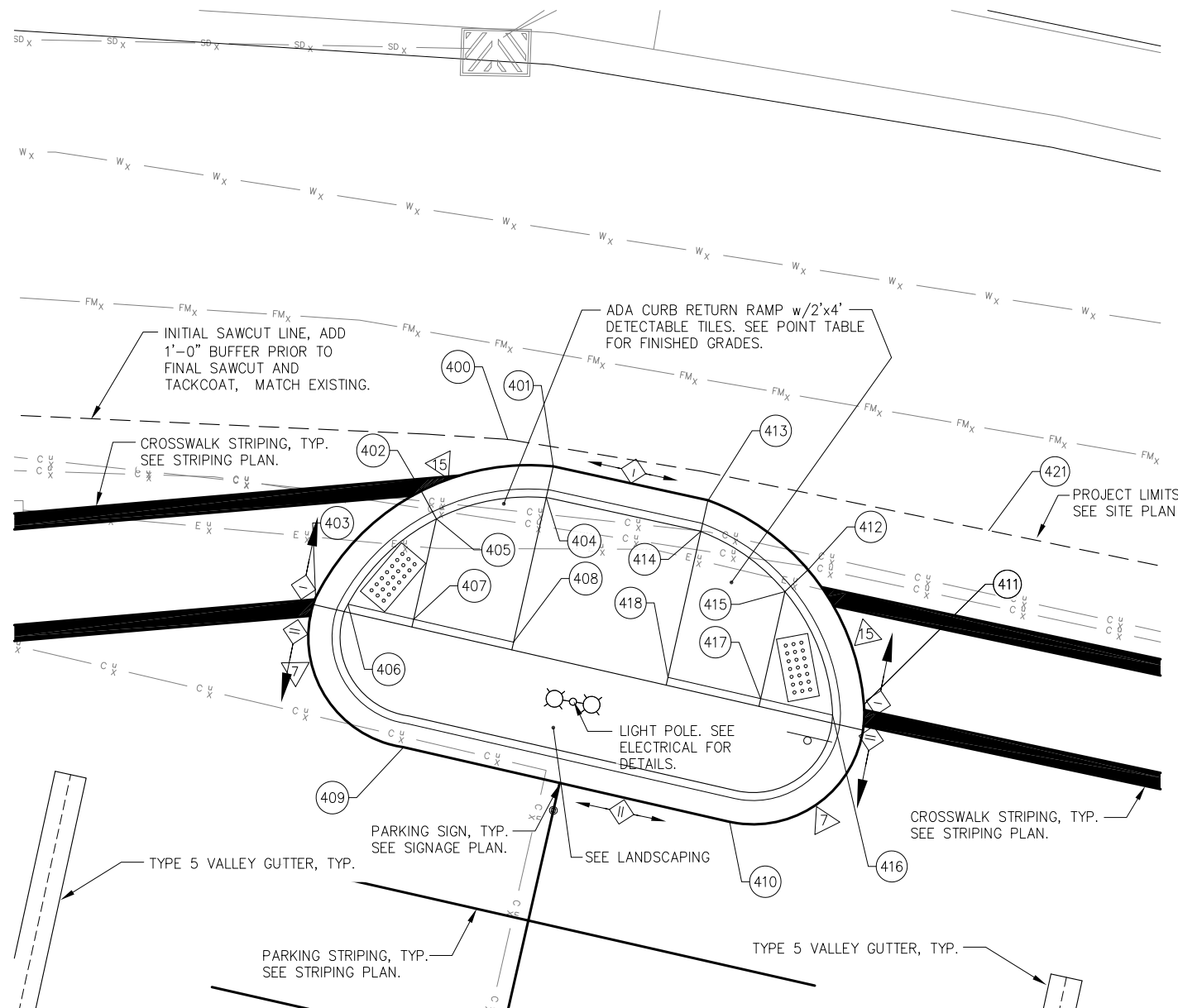


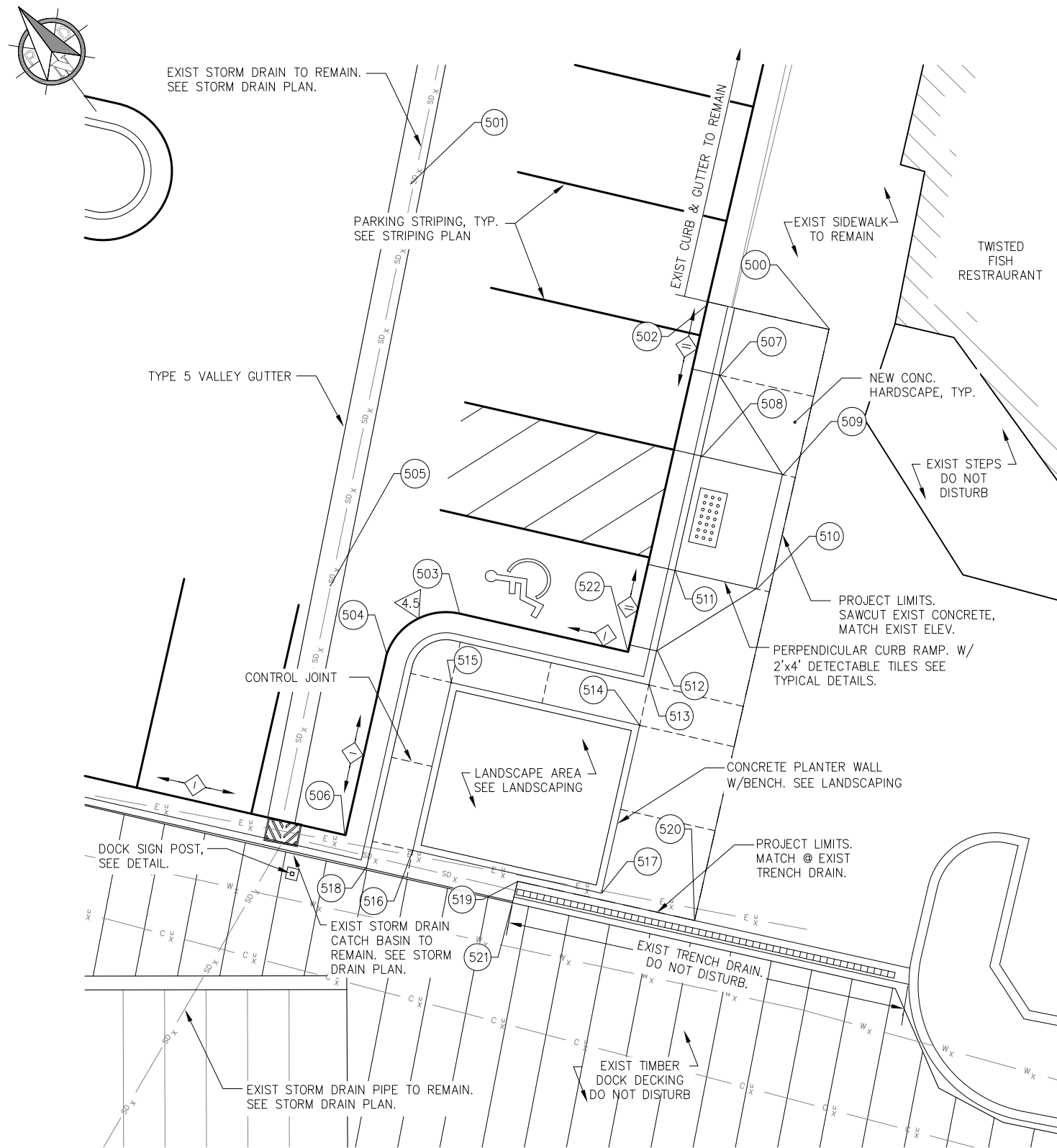
CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
ENLARGED PLAN DETAILS

PND PROJECT NO.: 102081

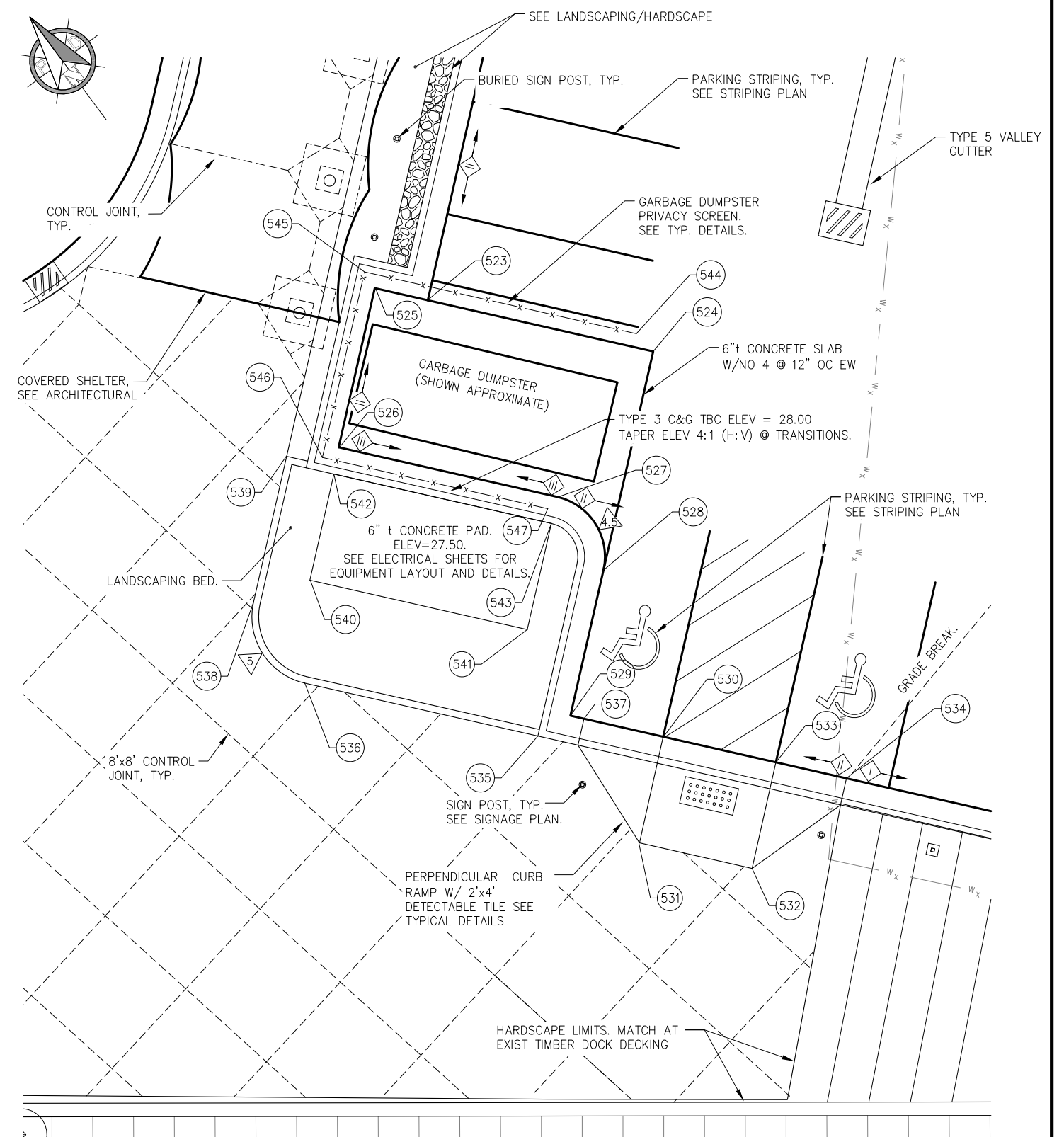
2.04
SHEET
13 OF 52





1
2.02
TWISTED FISH ENTRANCE
PLAN DETAIL

NOTE:
1. SEE LANDSCAPE SHEETS FOR ALL LANDSCAPE DETAILS.
2. SEE POINT LAYOUT TABLE SHEETS FOR ALL POINT VALUES SHOWN HERE.
3. SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL DETAILS.



2
2.02
DUMPSTER & ELECTRICAL EQUIPMENT
PLAN DETAIL



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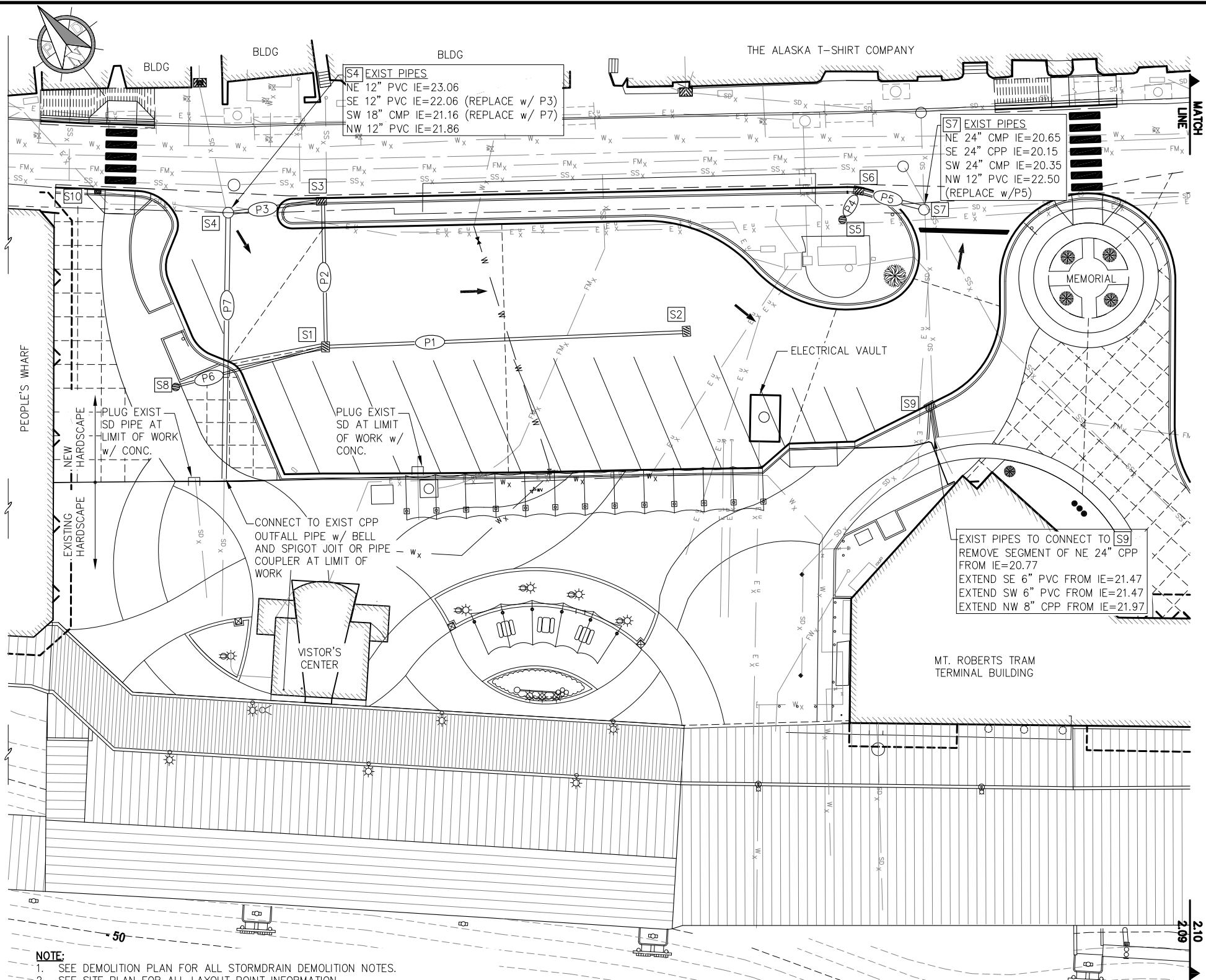


CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
ENLARGED PLAN DETAILS

PND PROJECT NO.: 102081

2.06
SHEET
15 OF 52



NOTE:

1. SEE DEMOLITION PLAN FOR ALL STORMDRAIN DEMOLITION NOTES.
2. SEE SITE PLAN FOR ALL LAYOUT POINT INFORMATION.
3. ALL EXISTING UTILITIES ARE SHOWN APPROXIMATE. FIELD VERIFY.
4. SEE ELECTRICAL AND WATERLINE SHEETS FOR OTHER PROJECT UTILITIES NOT SHOWN HERE.
5. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO DOT&PF ROW TO OBTAIN APPROVAL PRIOR TO ANY CONSTRUCTION WITHIN THE DOT&PF ROW.
6. ALL STORM DRAIN STRUCTURES WITHIN CURB & GUTTER SHALL BE CONSTRUCTED TO MATCH CURB TYPES AS SHOWN. SEE TYPICAL CURB DETAILS.
7. EXIST. STORM SEWER PIPES SHALL REMAIN UNO.

PARTIAL SITE PLAN

STORM DRAIN PIPING

PIPE NO.	DIA. (IN)	TYPE	LENGTH (FT)	FROM	PIPE IE	TO	PIPE IE	SLOPE
P1	12	CPP-S	125	S2	23.50	S1	22.20	1.0%
P2	12	CPP-S	50	S1	22.10	S3	21.60	1.0%
P3	12	CPP-S	40	S3	21.50	S4	21.20	0.75%
P4	8	CPP-S	15	S5	23.65	S6	23.35	2.0%
P5	12	CPP-S	20	S6	22.90	S7	22.50	2.0%
P6	8	CPP-S	60	S8	23.20	S1	22.30	1.67%
P7	18	CPP-S	100	S4 (MATCH EXIST KNOCK OUT)	21.16*	OUTFALL PIPE	MATCH EXIST, APPROX. 19.00	MATCH EXIST, APPROX. 19.00

CPP = CORRUGATED POLYETHYLENE PIPE
S = SMOOTH INNER WALL

*AN OWS STANDPIPE SHALL BE INSTALLED w/IN S4 IAW CBJ STD DTL 305 EXCEPT TEE SHALL BE A TAPPING TEE TO ALLOW FOR INSTALLATION THROUGH MANHOLE FRAME, SEE SPECIFICATIONS FOR ADDITIONAL DESCRIPTION OF WORK.

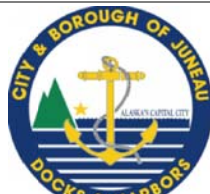
STORM DRAIN STRUCTURES

STRCT NO.	NORTHING	EASTING	RIM ELEV.	STRUCT/CAST TYPE	REMARKS
S1	478345.69'	532301.04'	25.50	CBFTI	SEE CATCH BASIN TYP. DETAIL
S2	478262.70'	532389.08'	26.50	CBFTI	SEE CATCH BASIN TYP. DETAIL
S3	4478381.07'	532334.93'	26.80	CBCI	IN CURB, SEE CATCH BASIN TYP. DETAIL
S4	478400.81'	532310.05'	26.65	EXIST MHFSL	EXIST MH TO REMAIN. ADJUST RIM TO GRADE
S5	478251.14'	532453.71'	27.15	AD/CSTI	SEE AREA DRAIN TYP. DETAIL
S6	478255.05'	532464.10'	26.85	CBCI	IN CURB, SEE CATCH BASIN TYP. DETAIL
S7	478234.88'	532474.94'	26.95	EXIST MHFSL	EXIST MH TO REMAIN. ADJUST RIM TO GRADE.
S8	478372.03'	532256.35'	26.50	AD/CSTI	SEE AREA DRAIN TYP. DETAIL
S9	478186.92'	532429.36'	26.90	MHCI	48IN MANHOLE IN CURB, SEE DTL. CONNECT PIPES FROM EXST CB AS SHOWN
S10	478437.03'	532284.28'	26.50	EXIST CBFW	EXIST SDCB IN CURB TO REMAIN. ADJUST HOOD TO MATCH SLOPE OF NEW CURB RAMP. RIM ELEV TO REMAIN.

SDCB = STORMDRAIN CATCHBASIN
OWS = OIL/WATER SEPARATOR
CBFTI = CATCHBASIN FRAME w/ TOP INTAKE
MHFSL = MANHOLE FRAME w/ SOLID LID
MHCI = MANHOLE FRAME w/CURB INLET, FRAME GRATE & HOOD
CBCI = CATCH BASIN w/CURB INLET, FRAME, GRATE & HOOD
AD = AREA DRAIN
CSTI = CAST IRON

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COMMUNICATIONS, WATER AND SEWER LINES
ARE IN THE AREA. UTILITIES SHOWN HERE DO
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SCALE: SCALE IN FEET
0 20 40 FT.



CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
STORM DRAIN PLAN

PND PROJECT NO.: 102081

2.09
SHEET
18 OF 52

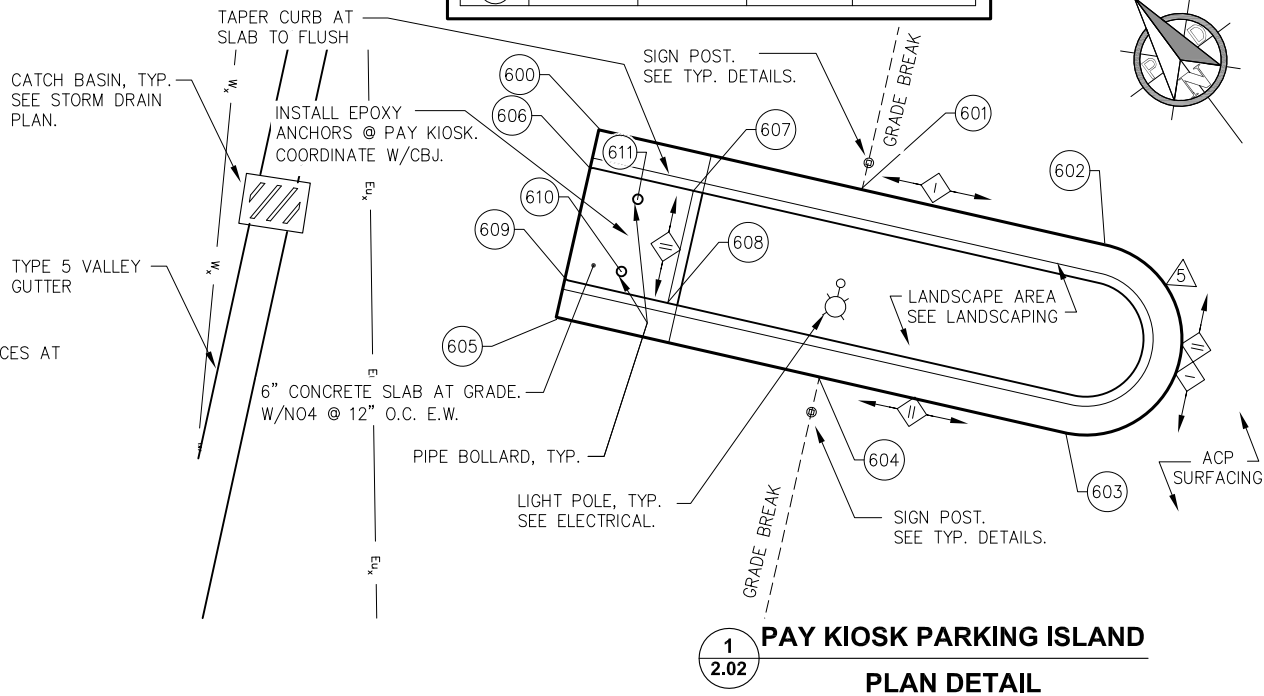
LAYOUT POINT TABLE 2205				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
419	477942.09	532757.46	29.94	EP, MATCH
420	477959.21	532746.28	29.92	EP, MATCH
421	478000.49	532719.28	29.84	EP, MATCH
422	477940.62	532755.54	29.89	EP, MATCH
423	477935.28	532747.08	30.37	BLDG, MATCH
424	477953.21	532736.13	30.40	BLDG, MATCH
425	477957.29	532743.02	30.30	BCC, GB
426	477966.84	532737.26	30.14	GB
427	477970.53	532737.49	29.85	PC, EP
428	477972.43	532733.14	29.80	ECC, GB
429	477960.07	532726.08	29.81	GB
430	477968.67	532738.68	29.85	EP
431	477975.50	532719.24	29.60	PCC, EP
432	477969.84	532717.67	29.45	PT, EP
433	477960.73	532723.32	29.20	COR, EP
434	477965.81	532722.45	29.65	GB
435	477964.81	532720.84	29.31	EP
436	477976.89	532727.79	29.76	POC, EP
437	477949.03	532729.35	29.75	BLDG, MATCH
438	477958.47	532723.50	29.70	GB
439	477951.49	532713.84	29.73	EC
440	477942.71	532719.23	29.85	BLDG, MATCH
441	477942.59	532699.13	28.92	EC
442	477945.06	532697.62	28.40	COR, EP, MATCH
443	477943.68	532700.34	28.98	PT, RAIL
444	477960.14	532726.68	29.85	COR, RAIL
445	477965.86	532723.15	29.67	PT, RAIL
446	477954.28	532712.72	28.90	EP
447	477969.52	532765.85	30.06	EP, MATCH
448	477953.30	532775.29	30.00	EP, MATCH

LAYOUT POINT TABLE 1206				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
500	477896.82	532635.90	27.95	EC
501	477925.78	532622.10	26.65	VG, GB
502	477904.36	532630.76	27.35	EP
503	477901.41	532602.44	26.60	PC, EP
504	477903.13	532596.67	26.40	PT, EP
505	477909.49	532597.29	26.45	VG, GB
506	477896.19	532585.27	25.80	COR, EP
507	477900.07	532627.94	27.70	BCC
508	477896.90	532622.81	27.15	ECC
509	477891.79	532625.99	27.65	BCC
510	477887.34	532618.84	27.50	BCC
511	477892.44	532615.58	27.00	ECC
512	477889.32	532610.58	27.30	BCC
513	477887.98	532608.37	27.20	COR, EC
514	477886.40	532605.82	27.00	EC
515	477898.28	532598.44	26.85	EC
516	477891.80	532587.85	26.40	EC
517	477879.87	532595.26	26.40	EC
518	477893.33	532584.62	26.30	COR, EC
519	477884.84	532591.60	26.40	DRAIN, EC MATCH
520	477873.72	532598.56	26.40	BLDG, MATCH
521	477884.07	532590.31	26.40	EC, MATCH
522	477890.97	532609.12	26.80	COR, EP

LAYOUT POINT TABLE 2206				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
523	477994.67	532556.41	26.60	COR, EP
524	477980.20	532565.37	26.52	COR, EP
525	477998.01	532554.34	26.65	EC
526	477991.69	532544.14	26.70	EC
527	477977.68	532552.82	26.60	PC, EC
528	477971.51	532551.35	26.70	PT, EP
529	477965.73	532542.02	27.00	COR, EP
530	477959.77	532545.68	27.20	ECC, EP
531	477955.57	532538.88	27.70	BCC, JOINT
532	477948.32	532543.40	27.70	BCC, JOINT
533	477952.56	532550.18	27.20	ECC, EP
534	477948.03	532552.99	27.25	BCC, EP, GB
535	477966.38	532539.27	27.30	COR, EC
536	477981.33	532530.00	27.40	PC, EC
537	477964.87	532542.56	27.03	BCC, EP
538	477988.21	532531.62	27.25	PT, EC
539	477994.01	532540.94	27.00	COR, EC
540	477986.35	532535.68	27.50	COR, EC
541	477972.44	532544.30	27.50	COR, EC
542	477990.60	532542.46	27.50	COR, EC
543	477976.66	532551.10	27.50	COR, EC
544	477982.01	532565.43	26.52	FENCE
545	477999.43	532554.63	27.00	FENCE
546	477992.06	532542.73	27.19	FENCE
547	477977.61	532551.69	27.21	FENCE

LAYOUT POINT TABLE 1208				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
600	477994.24	532639.15	27.75	COR, EP
601	477982.30	532646.55	27.95	EP, GB
602	477971.31	532653.41	27.75	PC, EP
603	477965.74	532644.89	27.70	PT, EP
604	477976.92	532637.92	27.85	EP, GB
605	477988.83	532630.52	27.60	COR, EP
606	477993.10	532637.35	27.68	EC
607	477988.45	532640.26	27.38	GB
608	477985.32	532635.19	28.10	GB
609	477989.94	532632.36	27.68	EC
610	477988.17	532634.65	27.99	BOL
611	477990.21	532637.93	28.01	BOL

- NOTE:
- ELEV. ON MATCH POINTS GIVEN FOR REFERENCE PURPOSES ONLY, MATCHING EXISTING SURFACES AT ALL MATCH POINTS SHALL TAKE PRECEDENCE .
 - CONTRACTOR SHALL VERIFY AND RECORD ALL MATCH POINTS PRIOR TO DEMO ACTIVITIES.



REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

P**N****D**

ENGINEERS, INC.

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CHECKED: TCB

DRAWN: NAM

APPROVED: CRS

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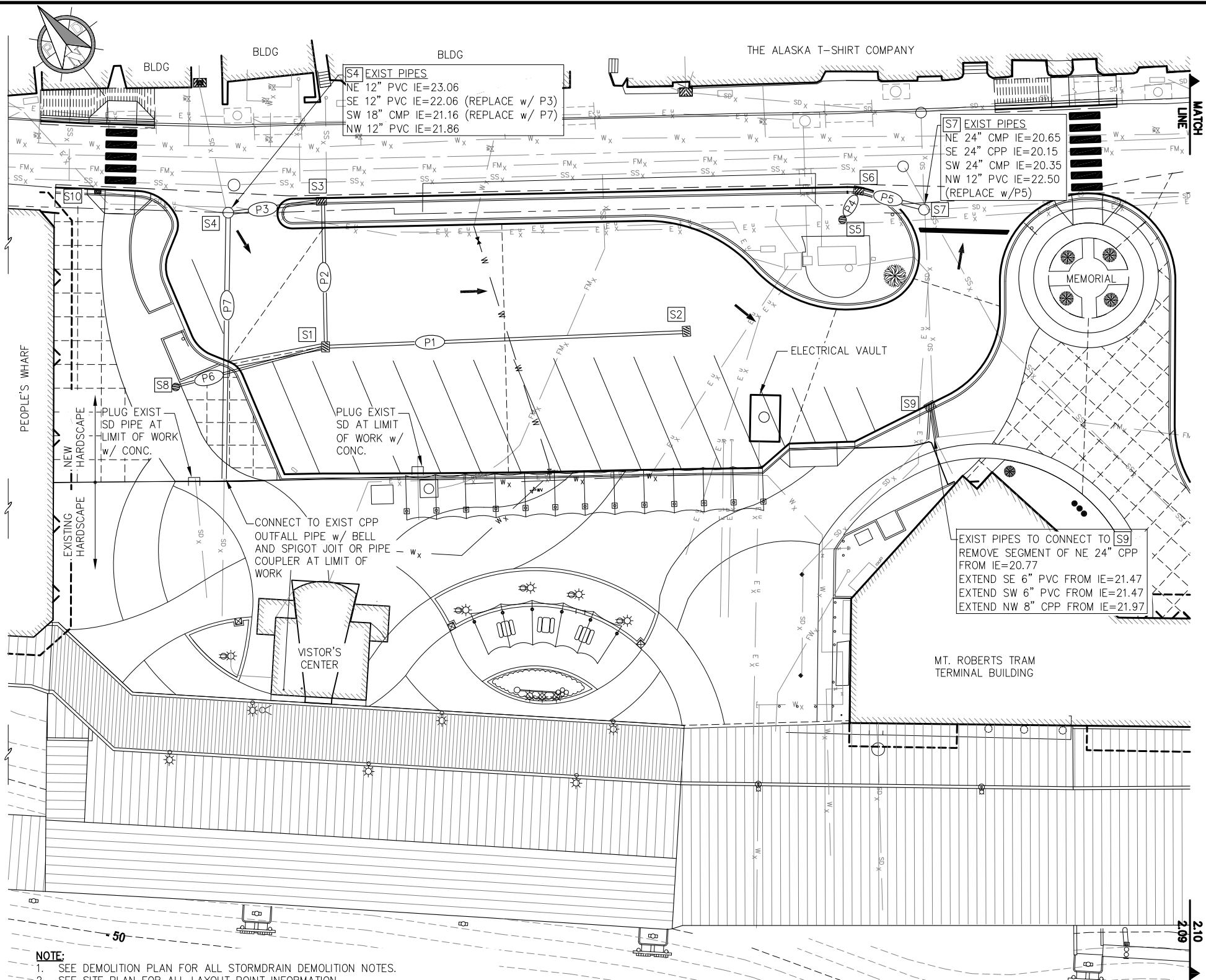
CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
POINT LAYOUT TABLES

SHEET
17 OF 52

PND PROJECT NO.: 102081

DATE: 7/8/13



NOTE:

1. SEE DEMOLITION PLAN FOR ALL STORMDRAIN DEMOLITION NOTES.
2. SEE SITE PLAN FOR ALL LAYOUT POINT INFORMATION.
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4. SEE ELECTRICAL AND WATERLINE SHEETS FOR OTHER PROJECT UTILITIES NOT SHOWN HERE.
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6. ALL STORM DRAIN STRUCTURES WITHIN CURB & GUTTER SHALL BE CONSTRUCTED TO MATCH CURB TYPES AS SHOWN. SEE TYPICAL CURB DETAILS.
7. EXIST. STORM SEWER PIPES SHALL REMAIN UNO.

PARTIAL SITE PLAN

STORM DRAIN PIPING

PIPE NO.	DIA. (IN)	TYPE	LENGTH (FT)	FROM	PIPE IE	TO	PIPE IE	SLOPE
P1	12	CPP-S	125	S2	23.50	S1	22.20	1.0%
P2	12	CPP-S	50	S1	22.10	S3	21.60	1.0%
P3	12	CPP-S	40	S3	21.50	S4	21.20	0.75%
P4	8	CPP-S	15	S5	23.65	S6	23.35	2.0%
P5	12	CPP-S	20	S6	22.90	S7	22.50	2.0%
P6	8	CPP-S	60	S8	23.20	S1	22.30	1.67%
P7	18	CPP-S	100	S4 (MATCH EXIST KNOCK OUT)	21.16*	OUTFALL PIPE	MATCH EXIST, APPROX. 19.00	MATCH EXIST, APPROX. 19.00

CPP = CORRUGATED POLYETHYLENE PIPE
S = SMOOTH INNER WALL

*AN OWS STANDPIPE SHALL BE INSTALLED w/IN S4 IAW CBJ STD DTL 305 EXCEPT TEE SHALL BE A TAPPING TEE TO ALLOW FOR INSTALLATION THROUGH MANHOLE FRAME, SEE SPECIFICATIONS FOR ADDITIONAL DESCRIPTION OF WORK.

STORM DRAIN STRUCTURES

STRCT NO.	NORTHING	EASTING	RIM ELEV.	STRUCT/CAST TYPE	REMARKS
S1	478345.69'	532301.04'	25.50	CBFTI	SEE CATCH BASIN TYP. DETAIL
S2	478262.70'	532389.08'	26.50	CBFTI	SEE CATCH BASIN TYP. DETAIL
S3	4478381.07'	532334.93'	26.80	CBCI	IN CURB, SEE CATCH BASIN TYP. DETAIL
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S6	478255.05'	532464.10'	26.85	CBCI	IN CURB, SEE CATCH BASIN TYP. DETAIL
S7	478234.88'	532474.94'	26.95	EXIST MHFSL	EXIST MH TO REMAIN. ADJUST RIM TO GRADE.
S8	478372.03'	532256.35'	26.50	AD/CSTI	SEE AREA DRAIN TYP. DETAIL
S9	478186.92'	532429.36'	26.90	MHCI	48IN MANHOLE IN CURB, SEE DTL. CONNECT PIPES FROM EXST CB AS SHOWN
S10	478437.03'	532284.28'	26.50	EXIST CBFW	EXIST SDCB IN CURB TO REMAIN. ADJUST HOOD TO MATCH SLOPE OF NEW CURB RAMP. RIM ELEV TO REMAIN.

SDCB = STORMDRAIN CATCHBASIN
OWS = OIL/WATER SEPARATOR
CBFTI = CATCHBASIN FRAME w/ TOP INTAKE
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CBCI = CATCH BASIN w/CURB INLET, FRAME, GRATE & HOOD
AD = AREA DRAIN
CSTI = CAST IRON

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



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APPROVED: CRS

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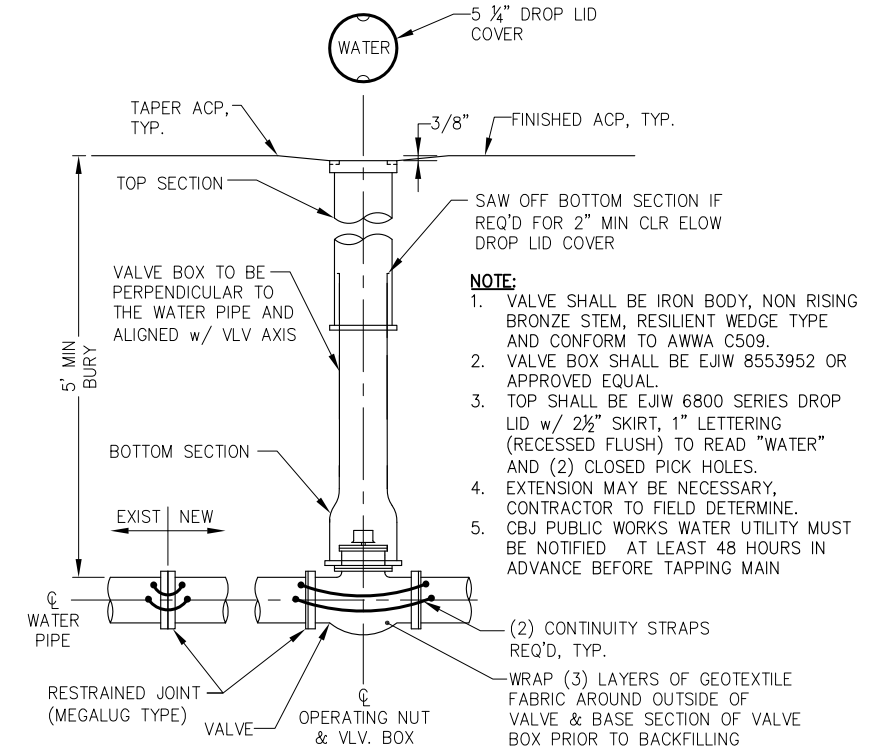
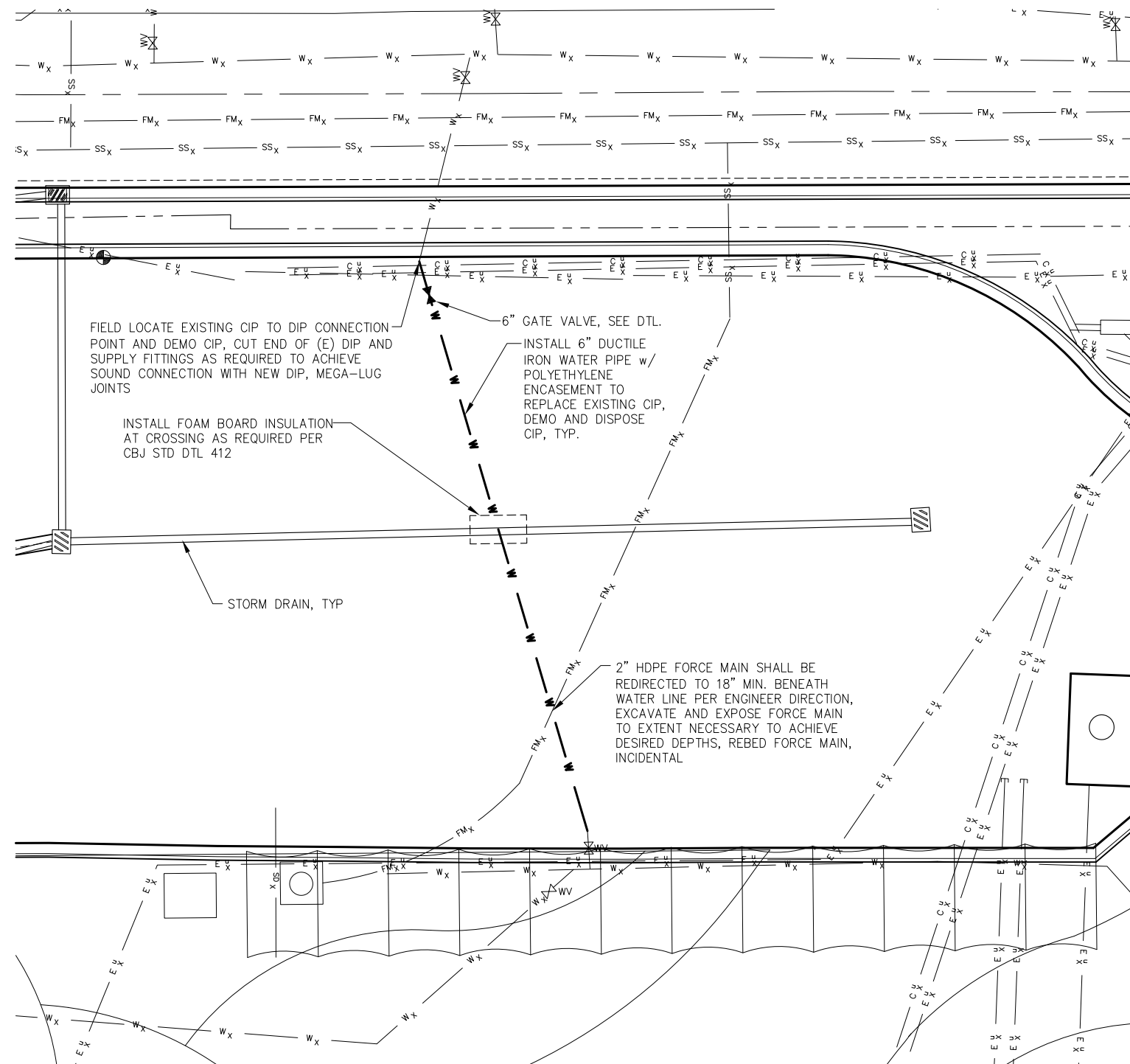


CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

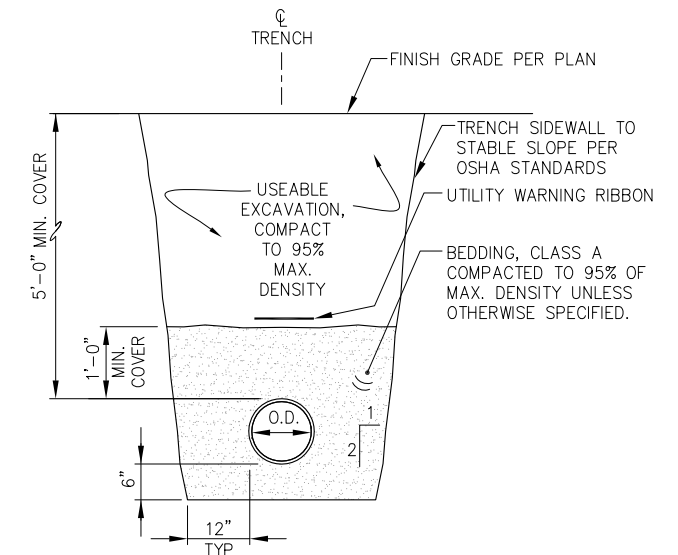
SHEET TITLE:
STORM DRAIN PLAN

PND PROJECT NO.: 102081

2.09
SHEET
18 OF 52



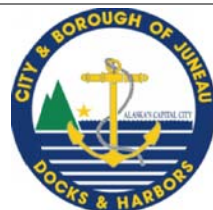
VALVE BOX



WATERLINE TRENCH

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UNDERGROUND POWER, TELEPHONE, T.V.,
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SCALE:
NTS



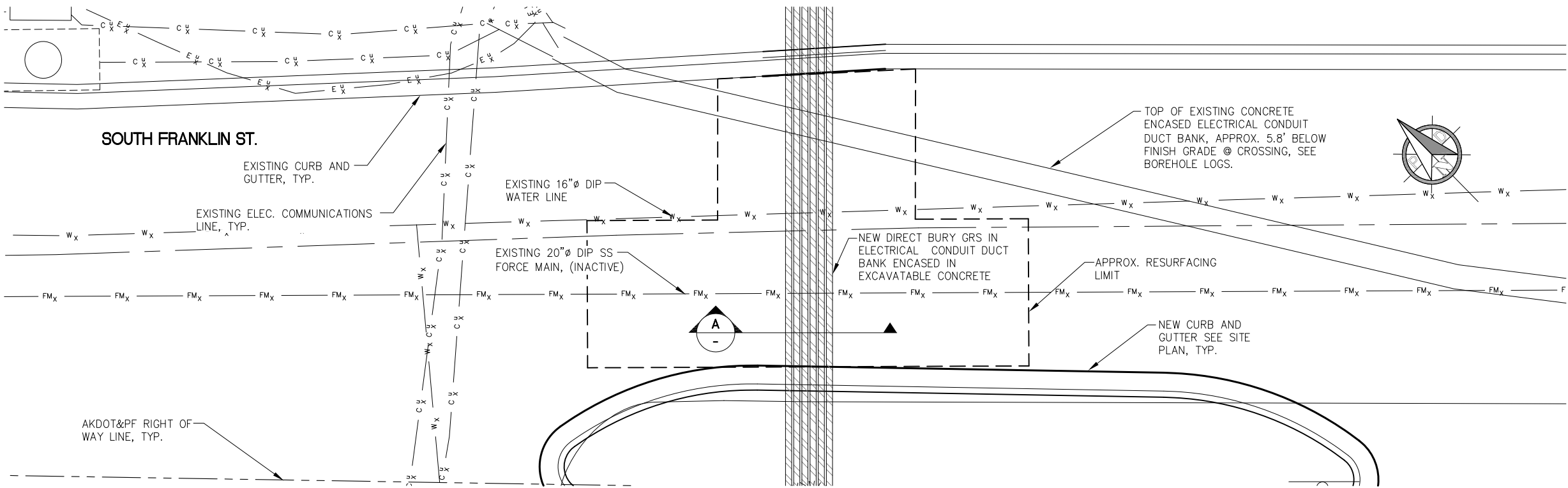
**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

SHEET TITLE:
WATERLINE PLAN AND DETAILS

PND PROJECT NO.: 102081

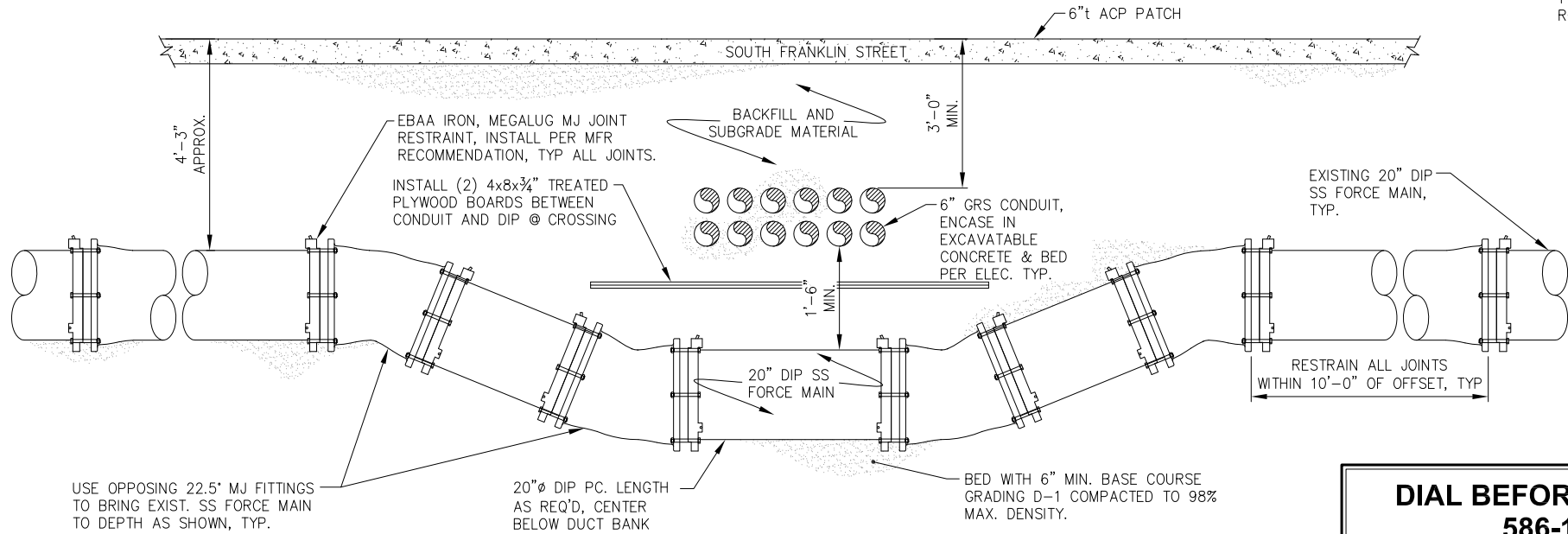
2.11
SHEET
20 OF 52

- NOTE:**
- ADDITIONAL UTILITIES NOT SHOWN MAY EXIST. CONTRACTOR SHALL VERIFY ALL UTILITIES IN THE AREA PRIOR TO BEGINNING WORK.
 - EXISTING 20"Ø SS FORCE MAIN IS AN INACTIVE BACKUP PER CBJ WASTEWATER DEPT. VERIFY FM STATUS W/ CBJ PRIOR TO BEGINNING ACP DEMOLITION.
 - DIP SHALL BE CLASS 51, FITTINGS AND GASKETS SHALL CONFORM TO AWWA C110/C111.
 - CONNECTIONS SHALL BE MECHANICAL JOINT TYPE WITH EBAA IRON MEGALUG SERIES 1100 JOINT RESTRAINTS.
 - EXISTING DIP JOINTS WITHIN 10'-0" OF OFFSET SHALL BE RESTRAINED AS SHOWN WITH APPROPRIATE MEGALUG JOINT RESTRAINT, FIELD VERIFY EXISTING CONNECTION TYPE.
 - CENTER FORCE MAIN OFFSET ON DUCT BANK.
 - REPLACE ALL DISMANTLED DIP JOINT GASKETS.
 - CBJ WASTEWATER DEPT. SHALL PERFORM A VISUAL INSPECTION OF THE 20" SS FORCE MAIN EXPOSED FOR THIS WORK AND SHALL SCOPE THE PIPE IN BOTH DIRECTIONS TO THE EXTENT PRACTICABLE PRIOR TO THE INSTALLATION OF THE NEW SEGMENT OF PIPE. COORDINATE WITH TONY STONICH, CBJ WASTEWATER DEPT. 48 HOURS MIN. PRIOR TO BEGINNING ACP DEMOLITION. (907) 790-2525. CONTRACTOR SHALL ENSURE AMPLE TIME IS ALLOTTED FOR INSPECTIONS TO BE PERFORMED, INCIDENTAL.
 - PRESSURE TESTING SHALL NOT BE REQUIRED ON THE NEWLY INSTALLED SEGMENT OF PIPE. THE CONTRACTOR SHALL MAKE THE PIPE AVAILABLE FOR VISUAL INSPECTIONS BY THE ENGINEER AND THE CBJ WASTEWATER DEPARTMENT THROUGHOUT THE WORK.
 - THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO AKDOT&PF ROW & OBTAIN APPROVAL PRIOR TO BEGINNING ANY DEMOLITION ACTIVITIES.

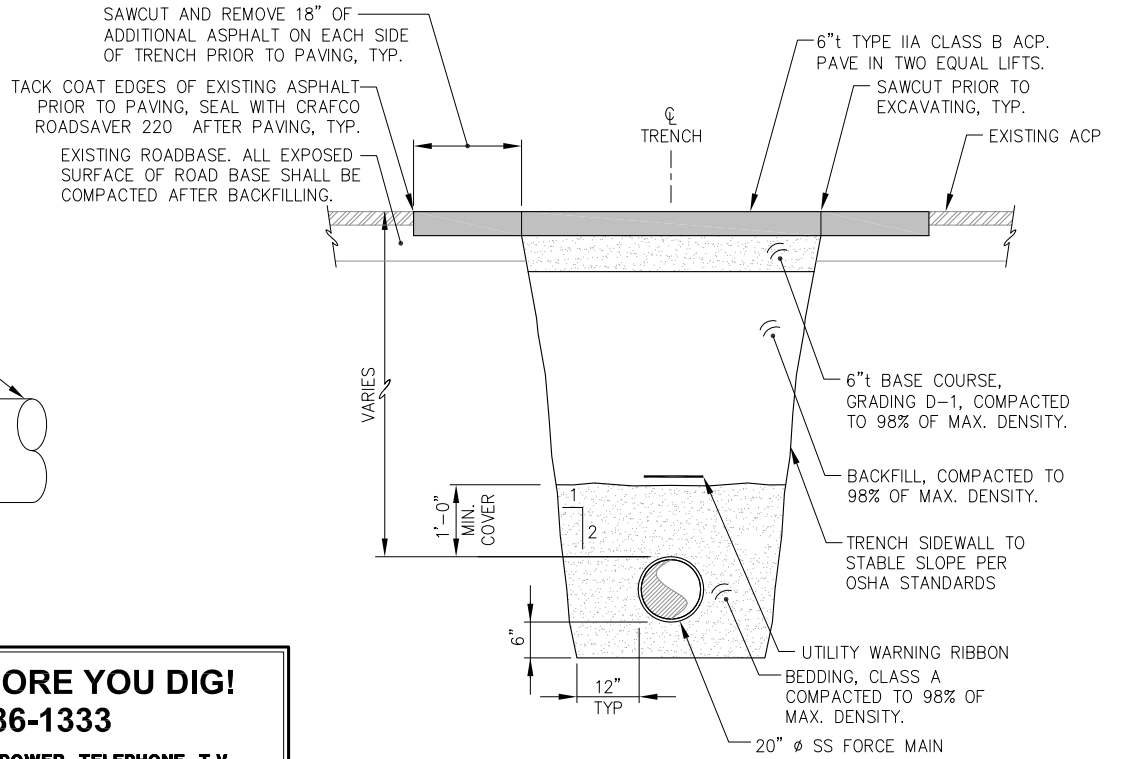


NOTE:
ACP RESURFACING AREA IN SOUTH FRANKLIN ST. SHALL BE FIELD DETERMINED BASED ON TRENCH REQUIREMENTS. CUTBACK EXISTING ACP 18" MIN. AND TACK COAT IMMEDIATELY PRIOR TO NEW ACP PLACEMENT SEAL ALL JOINTS WITH CRAFTCO ROADSAVER 220.

CONDUIT S.S. CROSSING PLAN



A FORCE MAIN CROSSING



TRENCH AND PATCH DETAIL

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586-1333
UNDERGROUND POWER, TELEPHONE, T.V., COMMUNICATIONS, WATER AND SEWER LINES ARE IN THE AREA. UTILITIES SHOWN HERE DO NOT SUBSTITUTE FOR FIELD LOCATES.



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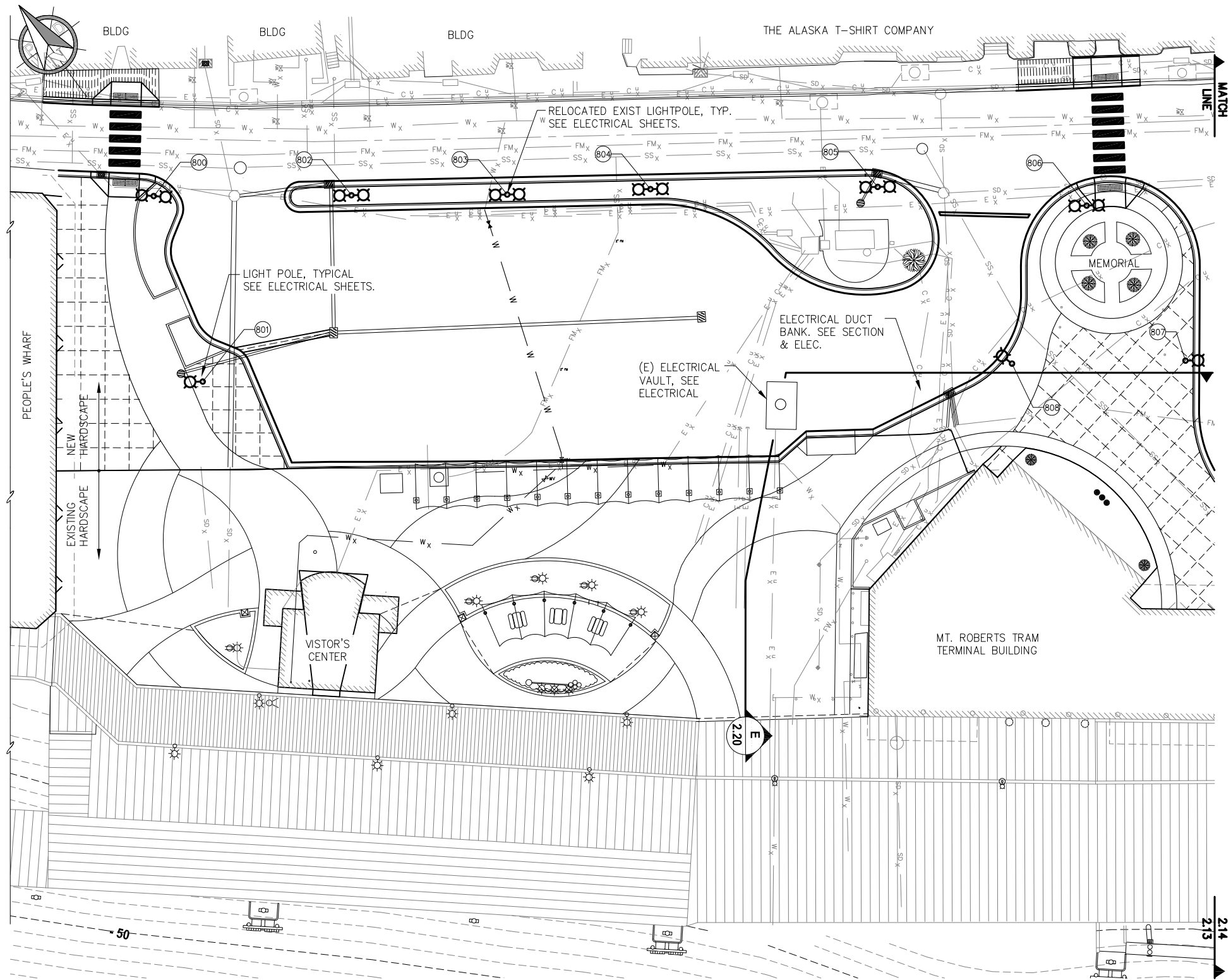


CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE: **SANITARY SEWER CROSSING**

PND PROJECT NO.: 102081

2.12
SHEET 21 OF 52



LAYOUT POINT SUMMARY TABLE				
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
(800)	478419.74'	532291.33'	—	SALVAGED, MODIFIED AND RELOCATED EXIST LIGHT POLE
(801)	478365.26'	532259.09'	—	NEW LIGHT POLE
(802)	478373.51'	532337.96'	—	SALVAGED, MODIFIED AND RELOCATED EXIST LIGHT POLE
(803)	478337.04'	532373.52'	—	SALVAGED, MODIFIED AND RELOCATED EXIST LIGHT POLE
(804)	478304.66'	532407.96'	—	SALVAGED, MODIFIED AND RELOCATED EXIST LIGHT POLE
(805)	478251.79'	532461.11'	—	SALVAGED, MODIFIED AND RELOCATED EXIST LIGHT POLE
(806)	478198.3'	532505.10'	—	SALVAGED, MODIFIED AND RELOCATED EXIST LIGHT POLE
(807)	478139.26'	532491.54'	—	NEW LIGHT POLE
(808)	478179.31'	532450.68'	—	NEW LIGHT POLE
(809)	478191.76'	532401.08'	—	NEW LIGHT POLE

- NOTE:
1. SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL UTILITY INFORMATION NOT SHOWN HERE.
 2. ALL EXISTING UTILITIES ARE SHOWN APPROXIMATE. FIELD VERIFY.
 3. SEE STORM DRAIN AND WATERLINE SHEETS FOR OTHER PROJECT UTILITIES NOT SHOWN HERE.
 4. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO DOT&PF ROW TO OBTAIN APPROVAL PRIOR TO ANY CONSTRUCTION WITHIN THE DOT&PF ROW.

PARTIAL SITE PLAN



REVISIONS				
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SCALE: SCALE IN FEET
0 20 40 FT.

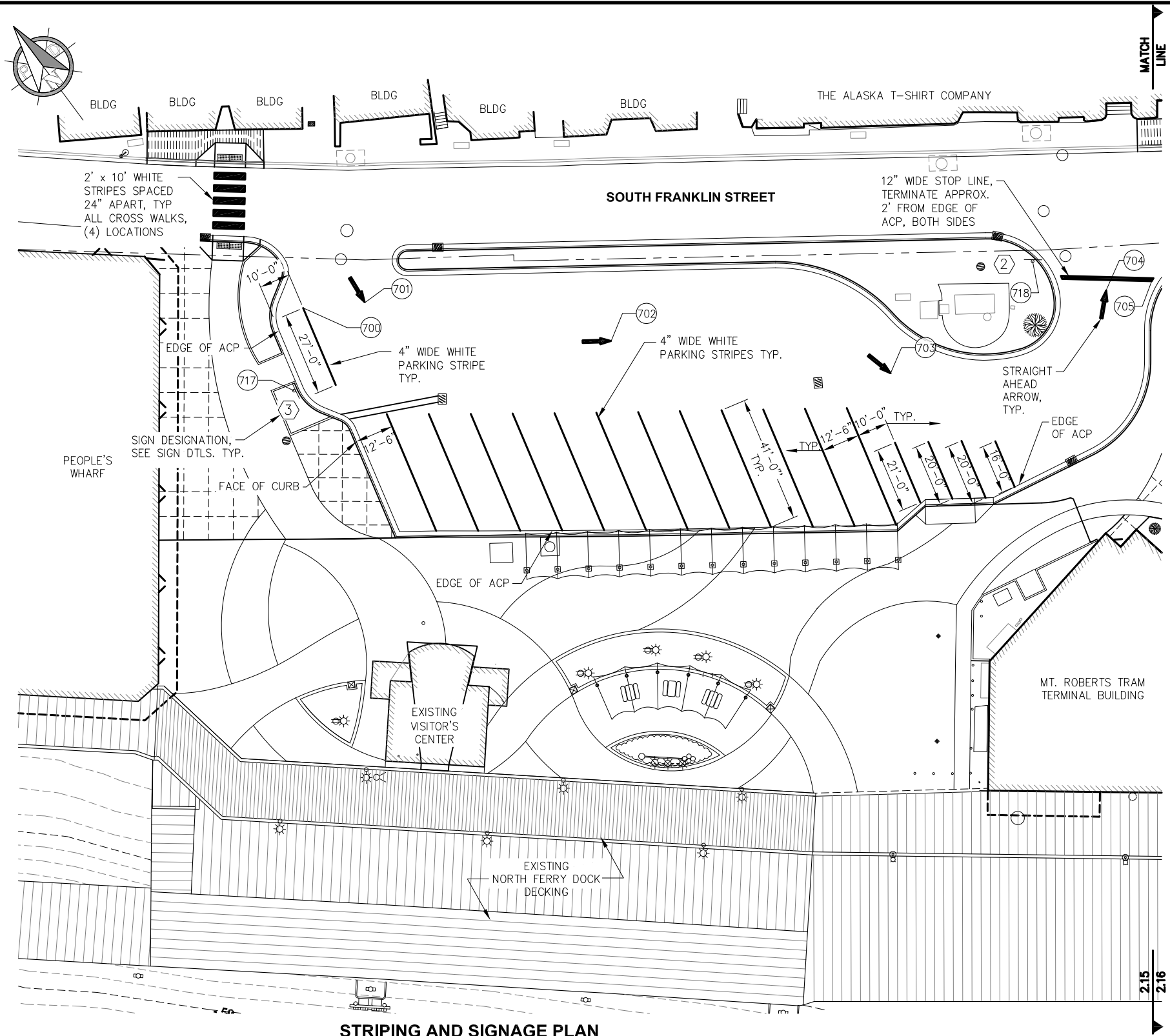


CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
LIGHT POLE AND ELECTRICAL VAULT
LOCATIONS

PND PROJECT NO.: 102081

2.13
SHEET
22 OF 52



STRIPING AND SIGNAGE PLAN

STRIPING LAYOUT POINT SUMMARY TABLE				
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
(700)	478398.49'	532290.28'	-	END 4" WHITE STRIPE
(701)	478385.62'	532305.55'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
(702)	478320.20'	532352.46'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
(703)	478248.58'	532408.41'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
(704)	478217.80'	532476.32'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
(705)	478209.63'	532489.20'	-	12" WHITE STOP LINE
(717)	478381.80'	532269.21'	-	SIGN. SEE SIGNING SCHEDULE
(718)	478241.33'	532466.34'	-	SIGN. SEE SIGNING SCHEDULE

- NOTES:
1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO DOT&PF ROW AND OBTAIN APPROVAL PRIOR TO ANY CONSTRUCTION WITHIN THE DOT&PF ROW.
 2. REPLACE CENTERLINE ON S.FRANKLIN STREET PER ADOT&PF STANDARDS, AS REQUIRED.
 3. SEE SIGNAGE AND STRIPING DETAILS SHEET.
 4. CONTRACTOR SHALL INVENTORY, SALVAGE AND RESET ALL EXISTING SIGNS AS DIRECTED BY THE ENGINEER.
 5. STRIPING PLAN SUBJECT TO CHANGE. REVIEW STRIPING PLAN IMMEDIATELY PRIOR TO PAINTING WITH OWNER AND ENGINEER. FAILURE TO COMPLY WITH THIS STIPULATION MAY RESULT IN REMOVAL OF STIPES AND REPAINTING AT THE EXPENSE OF THE CONTRACTOR.



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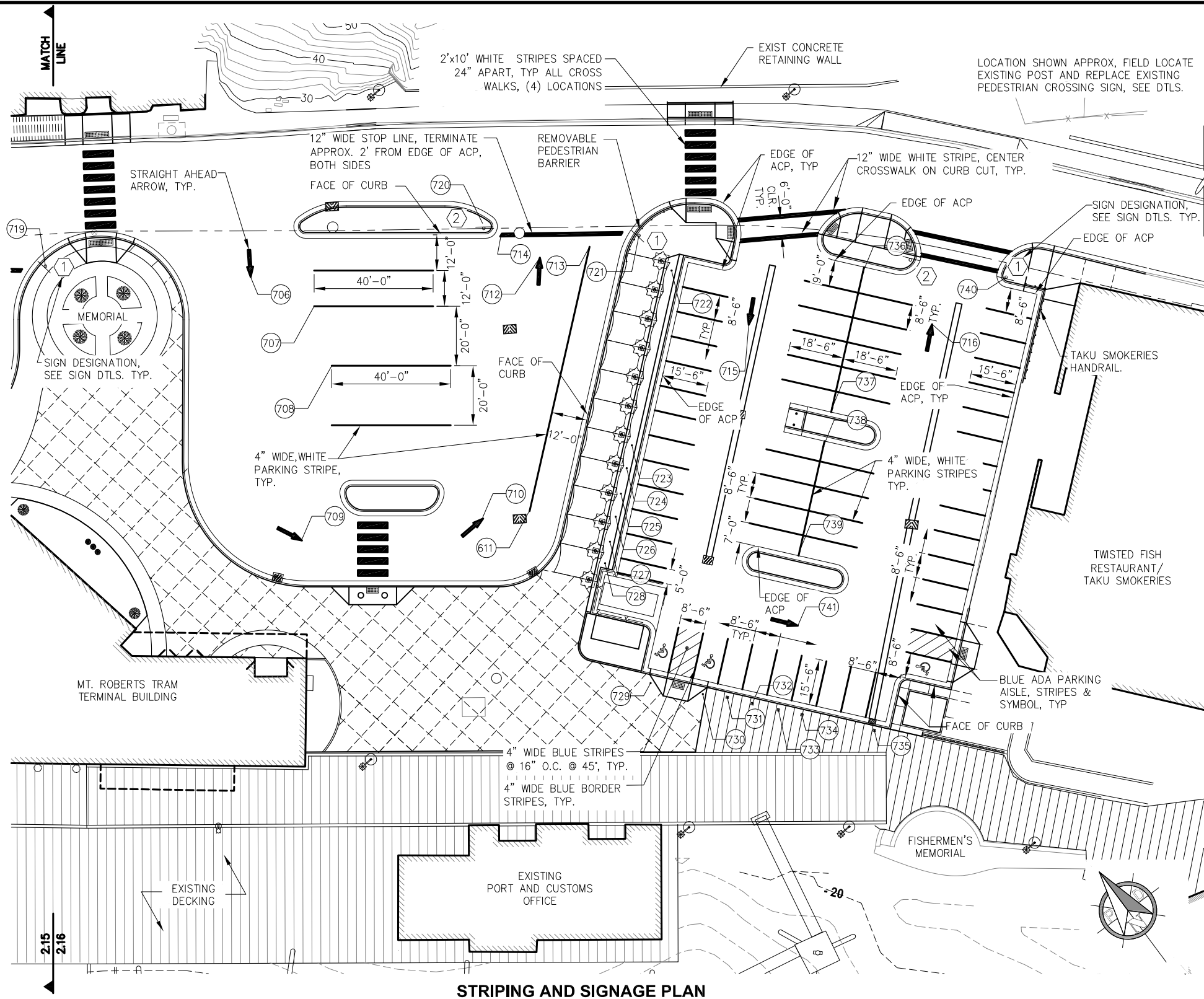


CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
PARTIAL STRIPING AND
SIGNAGE PLAN

PND PROJECT NO.: 102081

2.15
SHEET
24 OF 52



STRIPING LAYOUT POINT SUMMARY TABLE				
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
706	478153.08'	532541.83'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
707	478131.02'	532549.82'	-	END 4" WHITE STRIPE
708	478112.76'	532539.73'	-	END 4" WHITE STRIPE
709	478078.61'	532490.89'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
710	478040.46'	532538.90'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
711	478031.07'	532551.61'	-	END 4" WHITE STRIPE
712	478088.46'	532614.75'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
713	478079.09'	532629.08'	-	END 4" WHITE STRIPE
714	478103.06'	532610.90'	-	END 12" WHITE STOP LINE
715	478024.30'	532646.63'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
716	477979.05'	532691.43'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS
717	478381.80'	532269.21'	-	SIGN. SEE SIGNING SCHEDULE
718	478241.33'	532466.34'	-	SIGN. SEE SIGNING SCHEDULE
719	478204.79'	532495.98'	-	SIGN. SEE SIGNING SCHEDULE
720	478110.24'	532609.43'	-	SIGN. SEE SIGNING SCHEDULE
721	478069.94'	532643.42'	-	SIGN. SEE SIGNING SCHEDULE
722	478053.86'	532642.75'	-	SIGN POST
723	478022.11'	532591.50'	-	SIGN POST
724	478017.96'	532584.80'	-	SIGN POST
725	478013.34'	532577.35'	-	SIGN POST
726	478009.15'	532570.60'	-	SIGN POST
727	478004.61'	532563.26'	-	SIGN POST
728	478000.70'	532556.97'	-	SIGN POST
729	477961.53'	532529.02'	-	SIGN POST
730	477948.63'	532548.98'	-	SIGN POST
731	477939.80'	532553.68'	-	SIGN POST
732	477932.31'	532558.06'	-	SIGN POST
733	477924.59'	477924.59'	-	SIGN POST
734	477917.80'	532567.13'	-	SIGN POST
735	477896.81'	532580.50'	-	SIGN POST
736	478007.64'	478007.64'	-	SIGN POST
737	477982.97'	532647.73'	-	SIGN POST
738	477975.98'	532636.39'	-	SIGN POST
739	477957.04'	532605.83'	-	SIGN POST
740	477972.15'	532720.08'	-	SIGN. SEE SIGNING SCHEDULE
741	477939.78'	532587.44'	-	STRAIGHT AHEAD ARROW, TIP. SEE DETAILS

- NOTES:
1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO DOT&PF ROW AND OBTAIN APPROVAL PRIOR TO ANY CONSTRUCTION WITHIN THE DOT&PF ROW.
 2. REPLACE CENTERLINE ON S.FRANKLIN STREET PER ADOT&PF STANDARDS, AS REQUIRED.
 3. SEE SIGNAGE AND STRIPING DETAILS SHEET.
 4. CONTRACTOR SHALL INVENTORY, SALVAGE AND RESET ALL EXISTING SIGNS AS DIRECTED BY THE ENGINEER.
 5. STRIPING PLAN SUBJECT TO CHANGE. REVIEW STRIPING PLAN IMMEDIATELY PRIOR TO PAINTING WITH OWNER AND ENGINEER. FAILURE TO COMPLY WITH THIS STIPULATION MAY RESULT IN REMOVAL OF STIPES AND REPAINTING AT THE EXPENSE OF THE CONTRACTOR.



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CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II CONTRACT NO. DH13-017

SHEET TITLE:
PARTIAL STRIPING AND SIGNAGE PLAN

PND PROJECT NO.: 102081

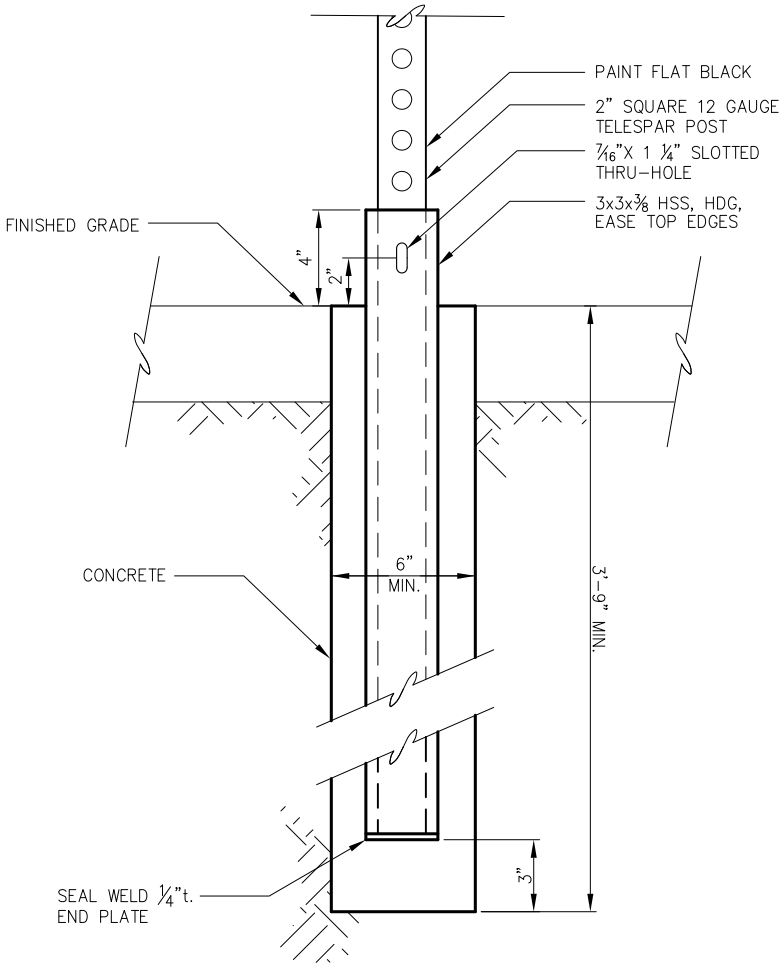
DATE: 7/8/13

2.16
SHEET
25 OF 52

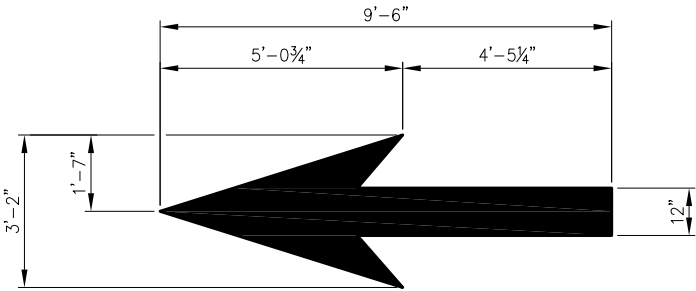
SIGN SCHEDULE					
SIGN NO.	* CODE NO.	DESCRIPTION	QTY.	SIGN SIZE (INCH)	POST SIZE (INCH)
①	R1-1	STOP SIGN	3	30 x 30	2.0 SQ., TYP.
②	R5-1	DO NOT ENTER	3	30 x 30	2.0 SQ., TYP.
③	R8-3GP	LOADING ZONE	1	12 x 18	2.0 SQ., TYP.
④	W11-2	PEDESTRIAN CROSSING	1	30 x 30	2.0 SQ., TYP.
⑤	W16-9P	AHEAD	1	36 x 18	2.0 SQ., TYP.

NOTES:

- * CODES FROM U.S. DOT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
1. NEW PEDESTRIAN CROSSING AND "AHEAD" SIGNS SHALL BE MOUNTED TO THE EXISTING POLE SUBSEQUENT TO THE REMOVAL OF THE EXISTING SIGN, SEE SITE PLAN.



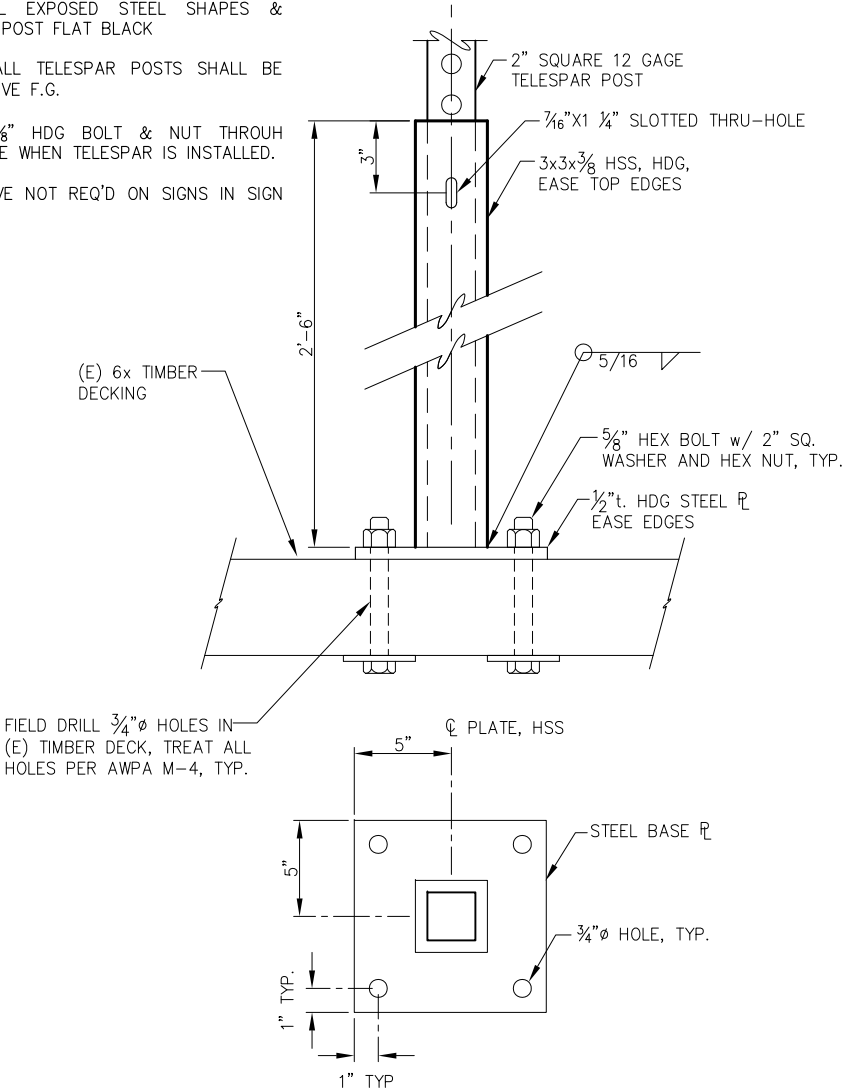
2 BURIED SIGN BASE SECTION



1 STRAIGHT AHEAD ARROW

NOTE:

1. PAINT ALL EXPOSED STEEL SHAPES & TELESAR POST FLAT BLACK
2. TOP OF ALL TELESAR POSTS SHALL BE 8'-0" ABOVE F.G.
3. INSTALL 3/8" HDG BOLT & NUT THRU THRU-HOLE WHEN TELESAR IS INSTALLED.
4. HSS SLEEVE NOT REQ'D ON SIGNS IN SIGN SCHEDULE.



3 SIGN BASE ON DOCK SECTION



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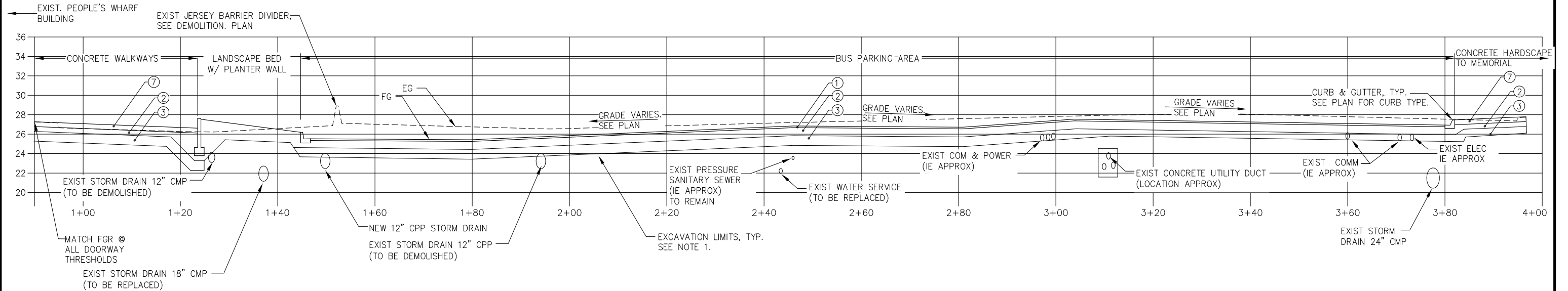


CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

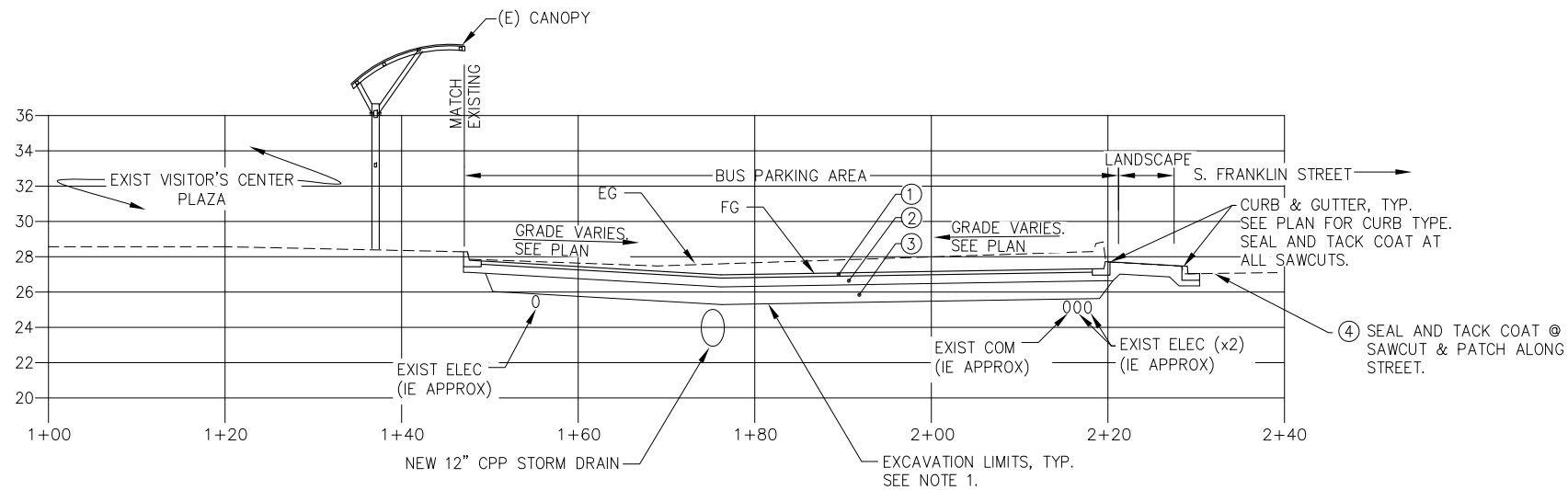
SHEET TITLE:
STRIPING & SIGNAGE DETAILS

PND PROJECT NO.: 102081

2.17
SHEET
26 OF 52



A
2.01
TYPICAL SECTION
NOTE: SHOWN 1:2 (H:V) EXAGGERATION



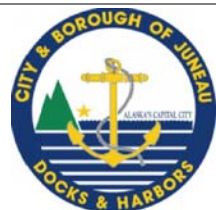
B
2.01
TYPICAL SECTION
NOTE: SHOWN 1:2 (H:V) EXAGGERATION

MATERIAL SCHEDULE	
SYMBOL	MATERIAL DESCRIPTION
①	4"t ACP (2 LAYERS @ 2"t w/TACK COAT)
②	6"t LAYER BASE COURSE GRADING D-1
③	12"t. CLASS A SRB (SEE NOTE 1)
④	6"t ACP(2 LAYERS @ 3"t w/TACK COAT)
⑤	12"t LAYER BASE COURSE GRADING D-1
⑥	24"t. CLASS A SHOT ROCK BORROW
⑦	6"t CONCRETE W/NO.4 @ 12" OC EW
⑧	GEOTEXTILE

- NOTE:
- 12"t. CLASS A SHOT ROCK BORROW REQ'D ONLY WHERE MATERIAL IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. COMPACT PER SPECIFICATIONS.
 - SEE SITE PLAN FOR PROJECT LIMITS
 - SEE POINT LAYOUT FOR FINAL GRADES
 - SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL VAULT DETAILS AND ELECTRICAL UTILITY DUCT SECTIONS.
 - REMOVE AND DISPOSE OF UNSUITABLE EXCAVATED MATERIAL INCLUDING EXISTING PILES, ORGANICS AND OTHER WASTE AS DIRECTED BY ENGINEER.
 - SEE PLAN FOR UTILITIES.
 - UTILITIES ENCOUNTERED W/ IN FILL PRISM SHALL BE REBEDDED W/ CLASS A BEDDING MATERIAL PER BEDDING DTLs, INCIDENTAL.
 - SEE LANDSCAPE FOR REQUIREMENTS @ PLANTING BEDS.

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586-1333

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



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**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

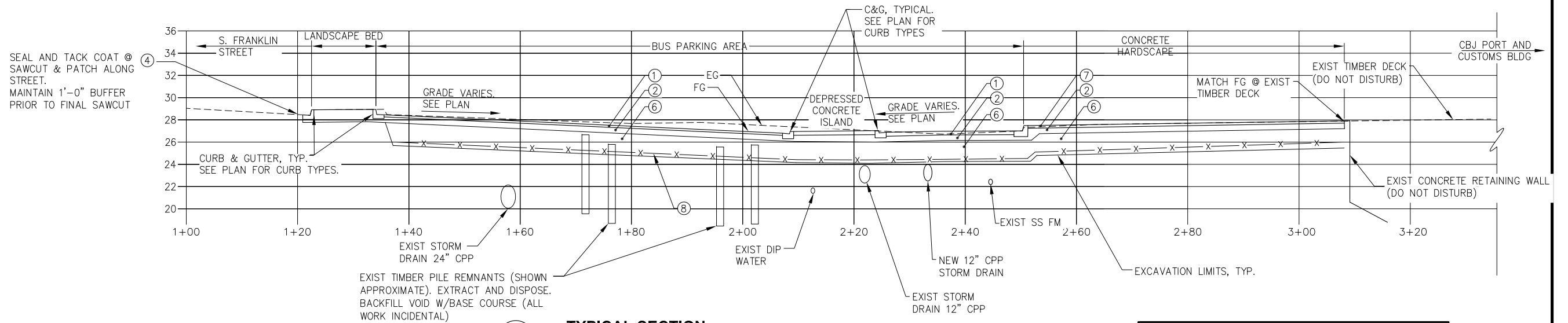
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TYPICAL SECTIONS

PND PROJECT NO.: 102081

2.18.DWG

2.18

SHEET
27 OF 52



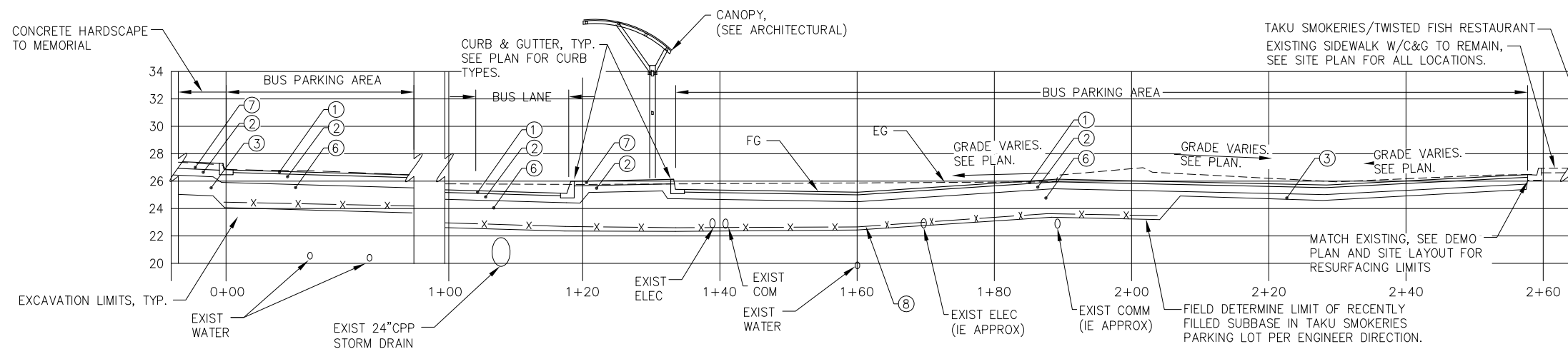
TYPICAL SECTION

NOTE: SHOWN 1:2 (H:V) EXAGGERATION

MATERIAL SCHEDULE	
SYMBOL	MATERIAL DESCRIPTION
①	4"t ACP (2 LAYERS @ 2"t w/TACK COAT)
②	6"t LAYER BASE COURSE GRADING D-1
③	12"t. CLASS A SRB (SEE NOTE 1)
④	6"t ACP(2 LAYERS @ 3"t w/TACK COAT)
⑤	12"t LAYER BASE COURSE GRADING D-1
⑥	24"t. CLASS A SHOT ROCK BORROW
⑦	6"t CONCRETE W/NO.4 @ 12" OC EW
⑧	GEOTEXTILE

NOTES:

- 24"t. LAYER OF CLASS A SHOT ROCK BORROW SHALL BE REQ'D AS SHOWN. SUB EXCAVATE AS REQ'D BY ENGINEER.
- 12"t. CLASS A SHOT ROCK BORROW ONLY REQ'D WHERE MATERIAL IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. COMPACT PER SPECIFICATIONS.
- UTILITIES WITHIN FILL PRISM SHALL BE REBEDDED WITH CLASS A BEDDING MATERIAL PER BEDDING DETAILS, INCIDENTAL.
- SEE SITE PLAN FOR PROJECT LIMITS
- SEE POINT LAYOUT FOR FINAL GRADES
- SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL VAULT DETAILS AND ELECTRICAL UTILITY DUCT SECTIONS.
- REMOVE AND DISPOSE OF UNSUITABLE EXCAVATED MATERIAL INCLUDING EXISTING PILES, ORGANICS AND OTHER WASTE WITHIN FILL PRISM & AS DIRECTED BY ENGINEER.
- SEE PLAN PLAN VIEW FOR UTILITIES.
- SEE LANDSCAPE FOR REQUIREMENTS @ PLANTING BEDS.



TYPICAL SECTION

NOTE: SHOWN 1:2 (H:V) EXAGGERATION

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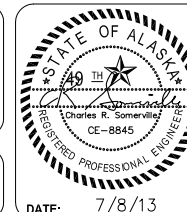
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REV.	DATE	DESCRIPTION	DWN.	CKD.

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SCALE: SCALE IN FEET
0 10 20 FT.



DATE: 7/8/13

CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:

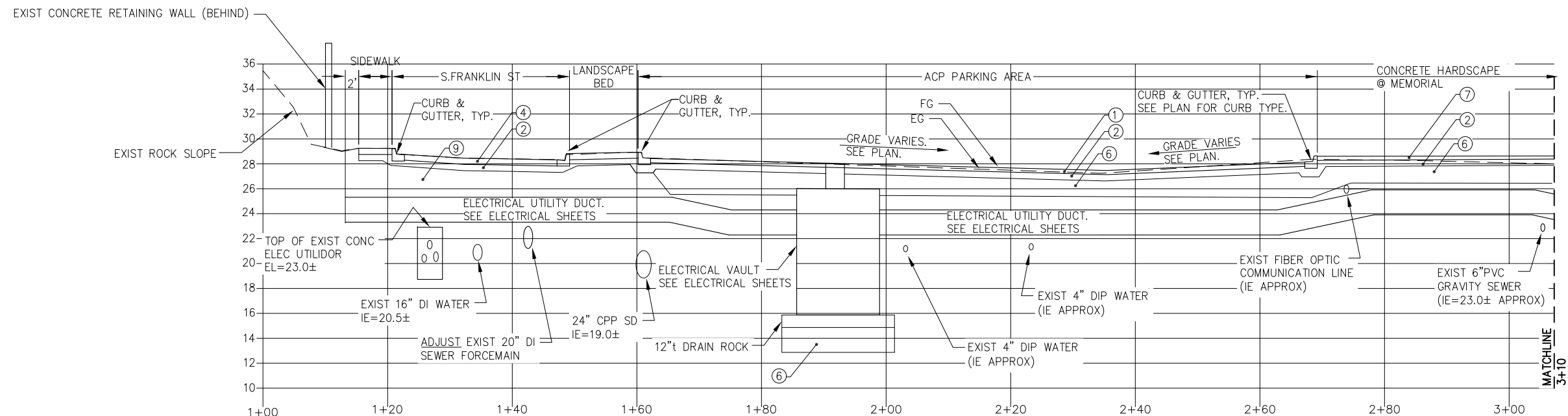
TYPICAL SECTIONS

PND PROJECT NO.: 102081

2.19.DWG

2.19

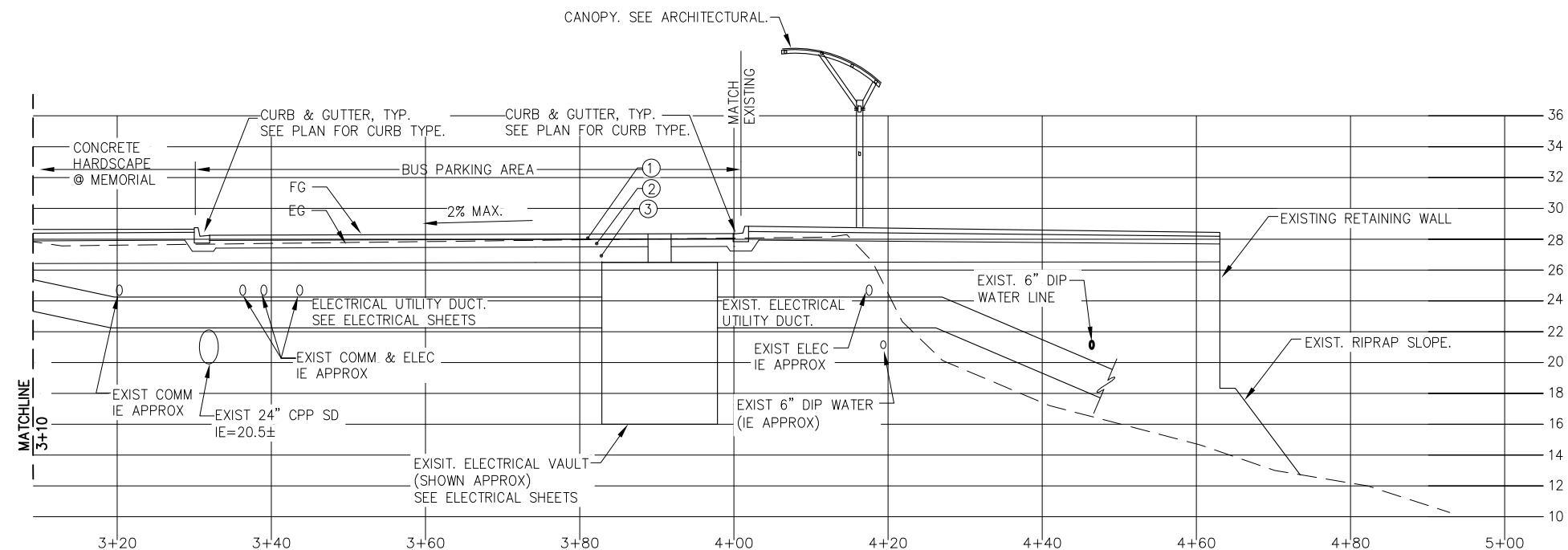
SHEET
28 OF 52



F
2.14 **TYPICAL SECTION**
NOTE: SHOWN 1:2 (H:V)

MATERIAL SCHEDULE	
SYMBOL	MATERIAL DESCRIPTION
①	4"t ACP (2 LAYERS @ 2"t w/TACK COAT)
②	6"t LAYER BASE COURSE GRADING D-1
③	12"t. CLASS A SRB (SEE NOTE 1)
④	6"t ACP(2 LAYERS @ 3"t w/TACK COAT)
⑤	12"t LAYER BASE COURSE GRADING D-1
⑥	24"t. CLASS A SHOT ROCK BORROW
⑦	6"t CONCRETE W/NO.4 @ 12" OC EW
⑧	GEOTEXTILE
⑨	SUITABLE BACKFILL

- NOTE:
- 12"t. CLASS A SHOT ROCK BORROW ONLY REQ'D WHERE MATERIAL IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. COMPACT PER SPECIFICATIONS.
 - SEE SITE PLAN FOR PROJECT LIMITS
 - SEE POINT LAYOUT FOR FINAL GRADES
 - MATERIAL THICKNESS VARIES WITHIN ROW. SEE SCHEDULE.
 - SEE FORCEMAIN SEWER CROSSING SHEETS FOR ADJUSTMENT TO EXIST 20" DI FORCEMAIN AT ELECTRICAL UTILITY CROSSING.
 - SEE ELECTRICAL SHEETS FOR ALL ELECTRICAL VAULT DETAILS AND ELECTRICAL UTILITY DUCT SECTIONS.
 - REMOVE AND DISPOSE OF UNSUITABLE EXCAVATED MATERIAL INCLUDING EXISTING PILES, ORGANICS AND OTHER WASTE WITHIN FILL PRISM & AS DIRECTED BY ENGINEER.
 - UTILITIES ENCOUNTERED W/ IN FILL PRISM SHALL REBEDDED W/ CLASS A BEDDING MATERIAL PER BEDDING DTLs, INCIDENTAL.



E
2.13 **TYPICAL SECTION**
NOTE: SHOWN 1:2 (H:V)

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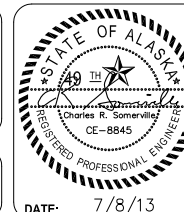
REVISIONS				
REV.	DATE	DESCRIPTION	DWN.	CKD.

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SCALE: SCALE IN FEET
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**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

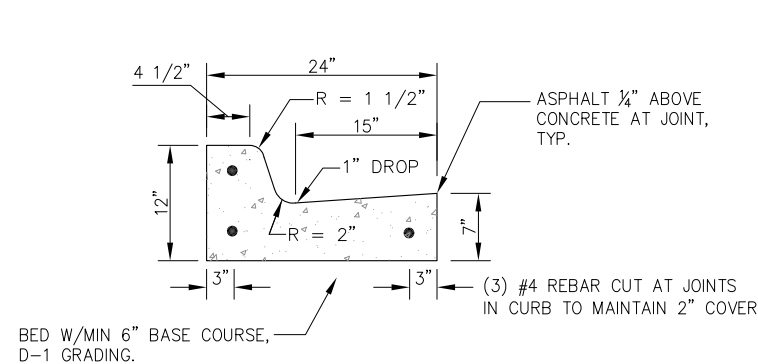
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PND PROJECT NO.: 102081

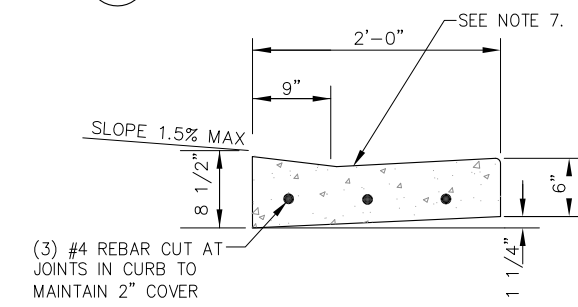
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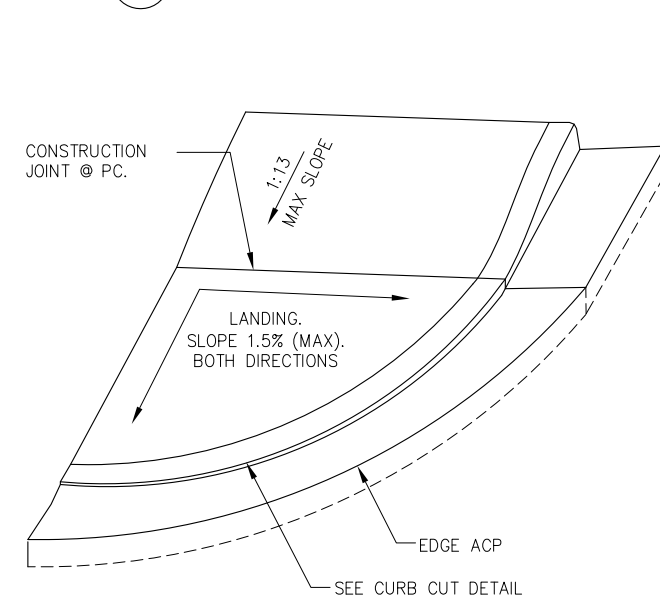
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29 OF 52



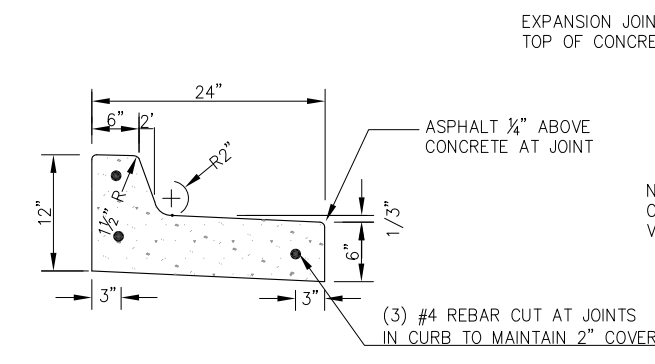
1 TYPE I STANDARD CURB



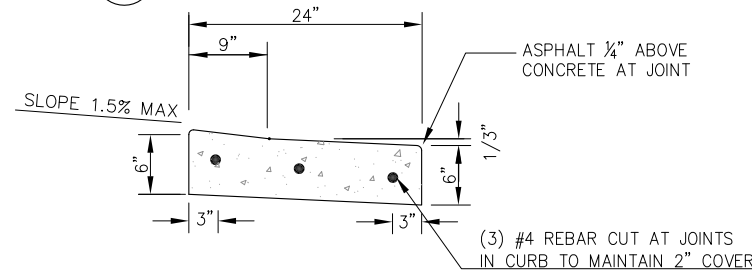
6 TYPE VI DEPRESSED CURB



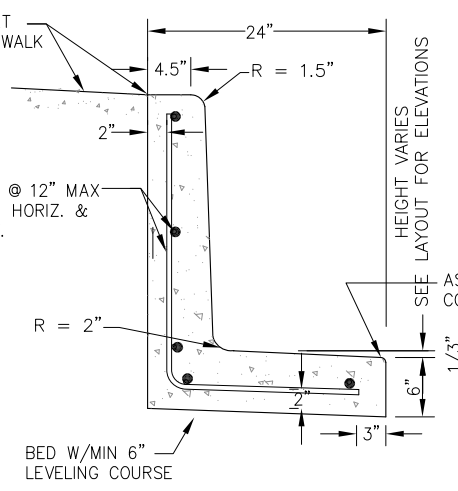
9 ADA CURB RETURN RAMP
NOTES:
1. INSTALL DETECTABLE TILES. TILES SHALL BE BLACK VERSATILE "REPLACEABLE TILES" AS MANUFACTURED BY ACO, NO SUBSTITUTIONS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE SITE PLANS FOR SIZES REQ'D.



2 TYPE II SPILL CURB

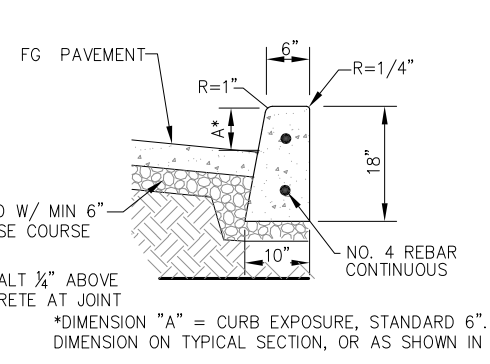


7 TYPE VII DEPRESSED SPILL CURB

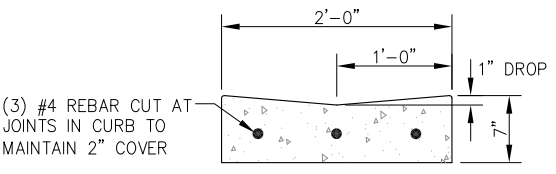


3 TYPE III CURB WALL

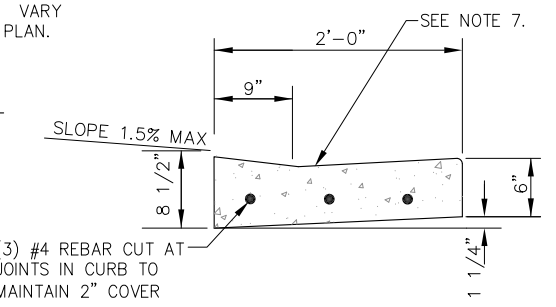
GENERAL CURB & GUTTER NOTES:
1. CURB AND GUTTER TRANSITION DESIGN TO BE APPROVED BY THE ENGINEER.
2. ALL STEEL MUST HAVE A MINIMUM OF 2" OF CONCRETE COVER.
3. ALL JOINTS AND SEAMS SHALL BE EDGED.
4. EXPANSION JOINTS SHALL BE MAX 1/2", MIN 1/4", WITH NO GAPS FOR WATER INTRUSION. JOINTS SHALL BE A MAXIMUM OF 30' O.C.
5. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING OF ALL SURFACES.
6. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
7. TRANSITION AT ADA CURB CUTS SHALL BE FLUSH (LEVEL) AND FREE OF ABRUPT CHANGES, AS SHOWN.



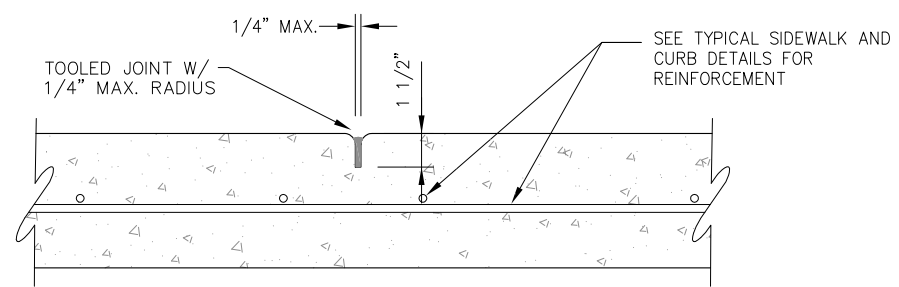
4 TYPE IV VERTICAL CURB



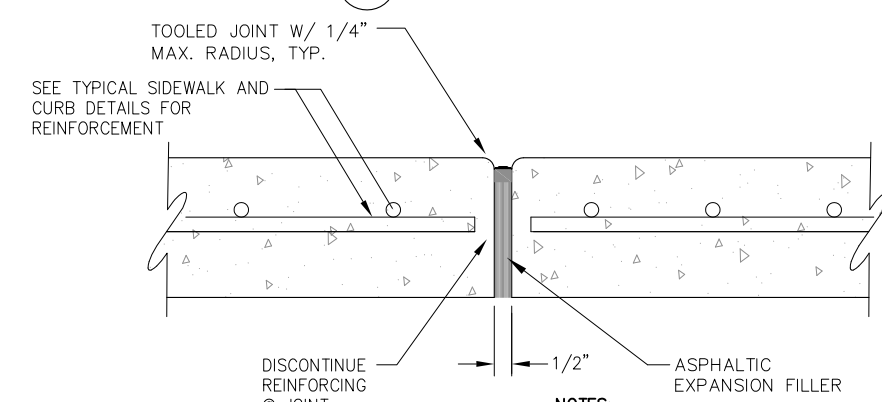
5 TYPE V VALLEY GUTTER



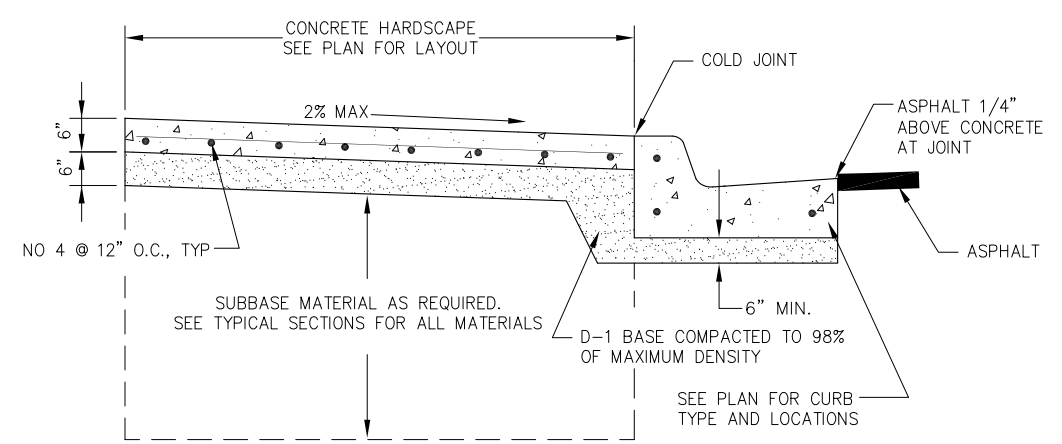
8 ADA CURB CUT



10 CONTROL JOINT

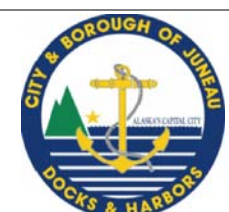


11 EXPANSION JOINT



NOTE:
1. ALL STEEL MUST HAVE A MINIMUM OF 2" OF CONCRETE COVER.
2. ALL JOINTS AND SEAMS SHALL BE EDGED.
3. EXPANSION JOINTS SHALL BE MAX 1/2", MIN 1/4", WITH NO GAPS FOR WATER INTRUSION.
4. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
5. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

12 CONCRETE SIDEWALK AND HARDSCAPE DETAIL



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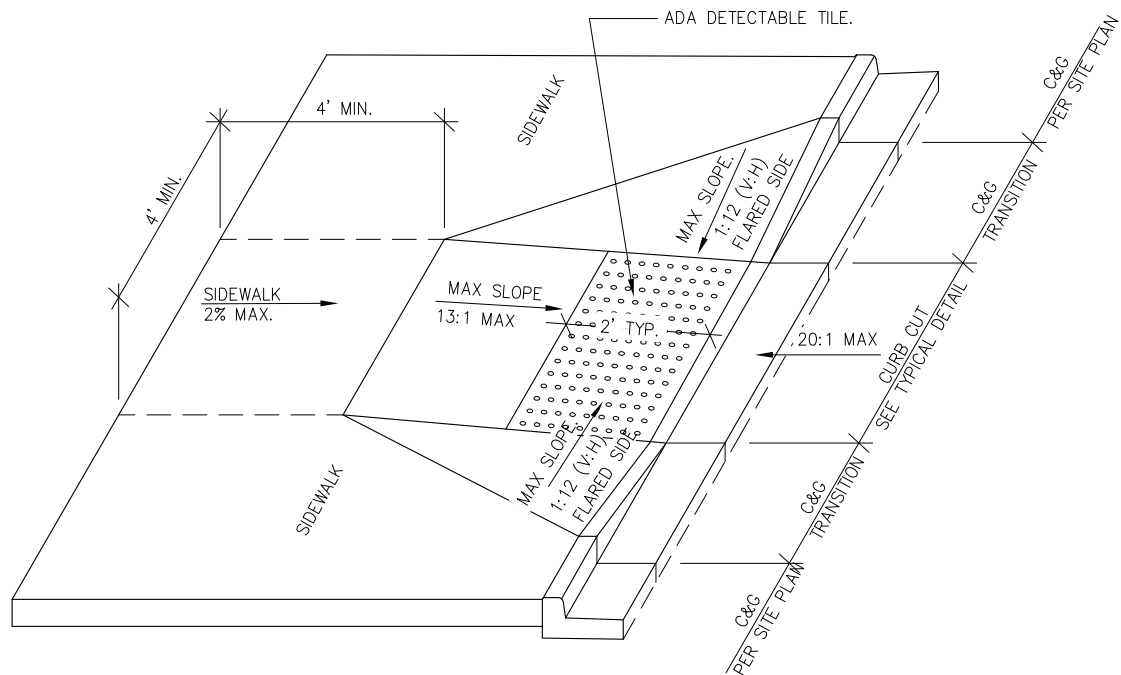
CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE: TYPICAL DETAILS

PND PROJECT NO.: 102081

DATE: 7/8/13

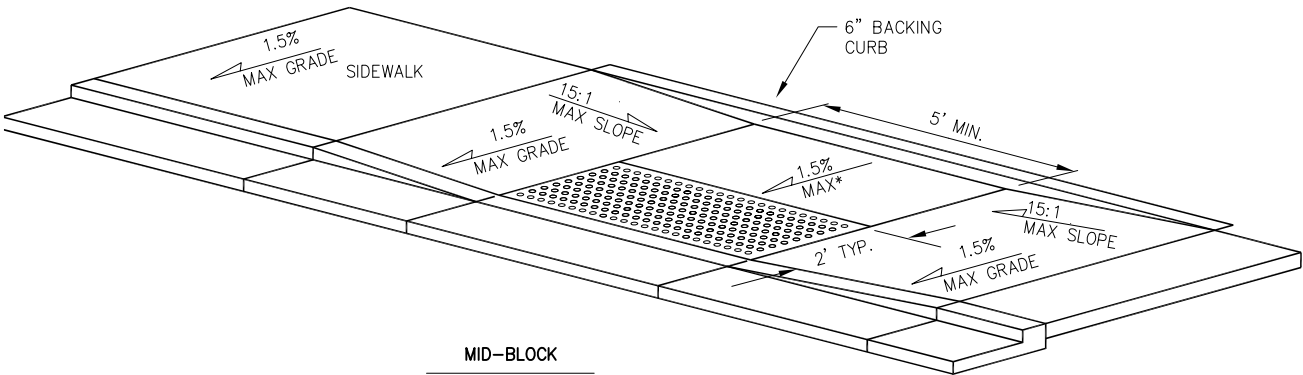
2.21
SHEET
30 OF 52



1 PERPENDICULAR CURB RAMP

NOTE:

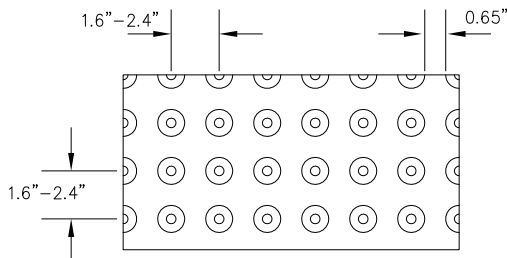
1. INSTALL DETECTABLE TILES. TILES SHALL BE BLACK VERSATILE "REPLACEABLE TILES" AS MANUFACTURED BY ACO, NO SUBSTITUTIONS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE SITE PLANS FOR SIZES REQ'D.
2. TILES SHALL BE SIZED AS SPECIFIED IN THE SITE PLANS.



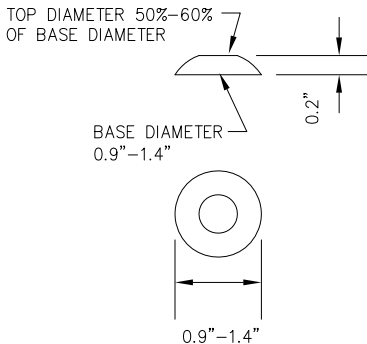
2 PARALLEL CURB RAMP

NOTE:

1. INSTALL DETECTABLE TILES. TILES SHALL BE BLACK VERSATILE "REPLACEABLE TILES" AS MANUFACTURED BY ACB, NO SUBSTITUTIONS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE SITE PLANS FOR SIZES REQ'D.
2. TILES SHALL BE 2'x4' OR 2'x8' AS SHOWN ON SITE PLANS.
3. * IN AREAS WHERE BACK OF PARALLEL CURB RAMP MUST MATCH EXISTING CONC. ELEV. CONCRETE RAMP SHALL BE EXTENDED TO EXTENT PRACTICABLE TO ALLOW FOR MINIMIZED RAMP GRADES

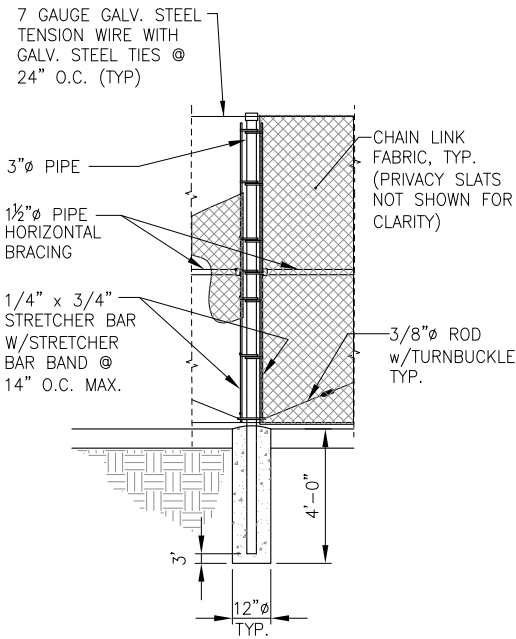


TEXTURE PATTERN DETAIL

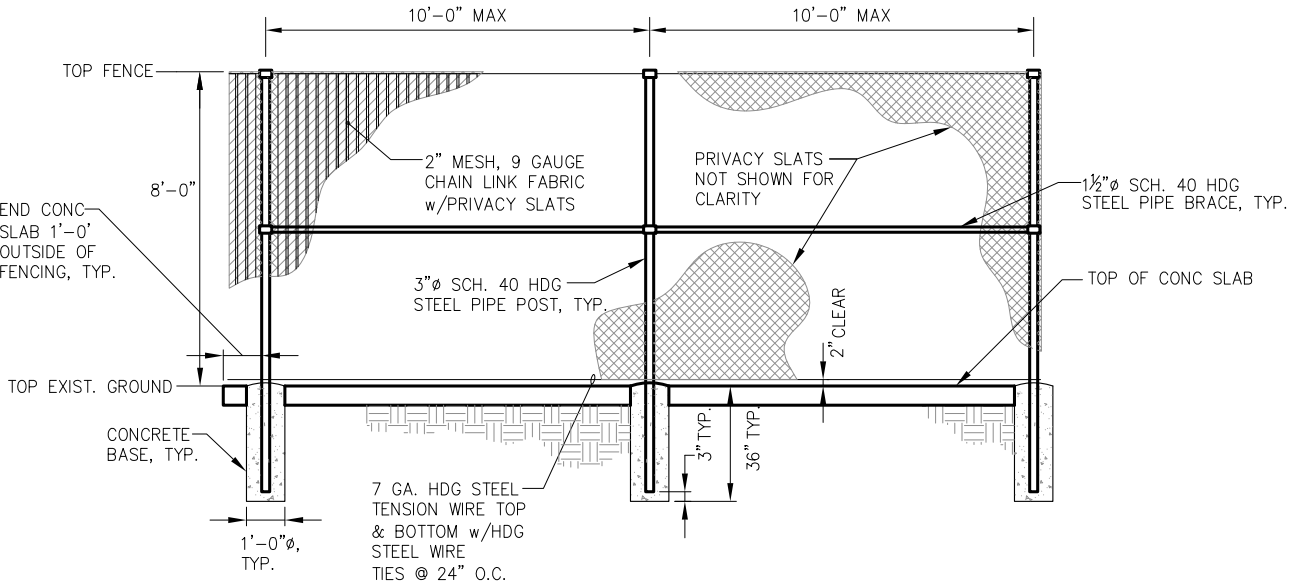


TRUNCATED DOME DETAIL

3 TACTILE STRIP



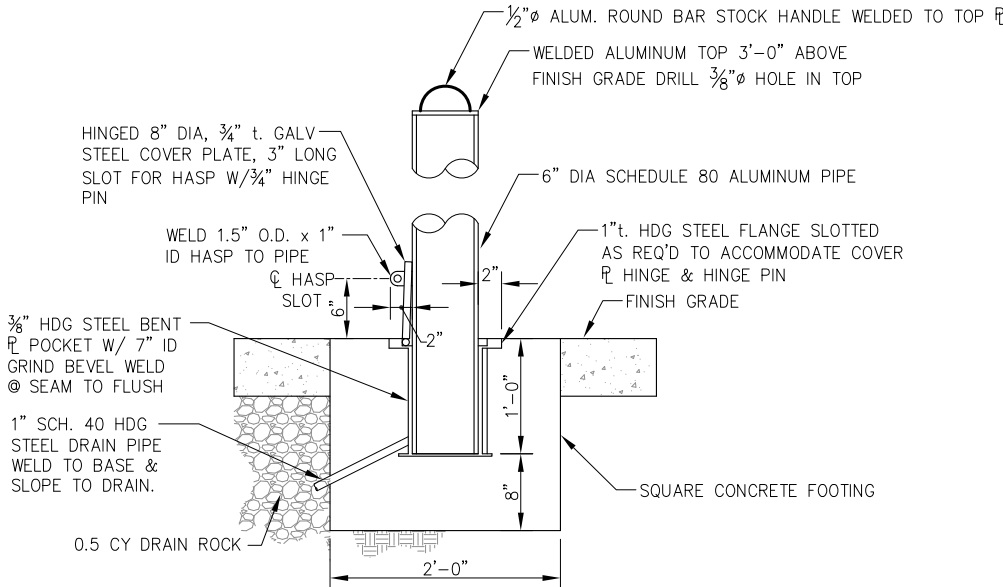
4 CORNER FENCE POST



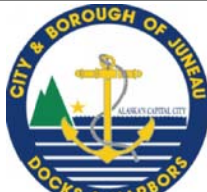
5 DUMPSTER SCREEN ELEVATION

NOTE:

1. POSTS AND BRACES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE OUTSIDE DIAMETER.
2. ALL FENCING MATERIAL SHALL BE BLACK POWDER COATED STEEL.
3. TOP OF CONCRETE FOOTING SHALL BE CROWNED TO SHED WATER.



6 REMOVABLE BOLLARD



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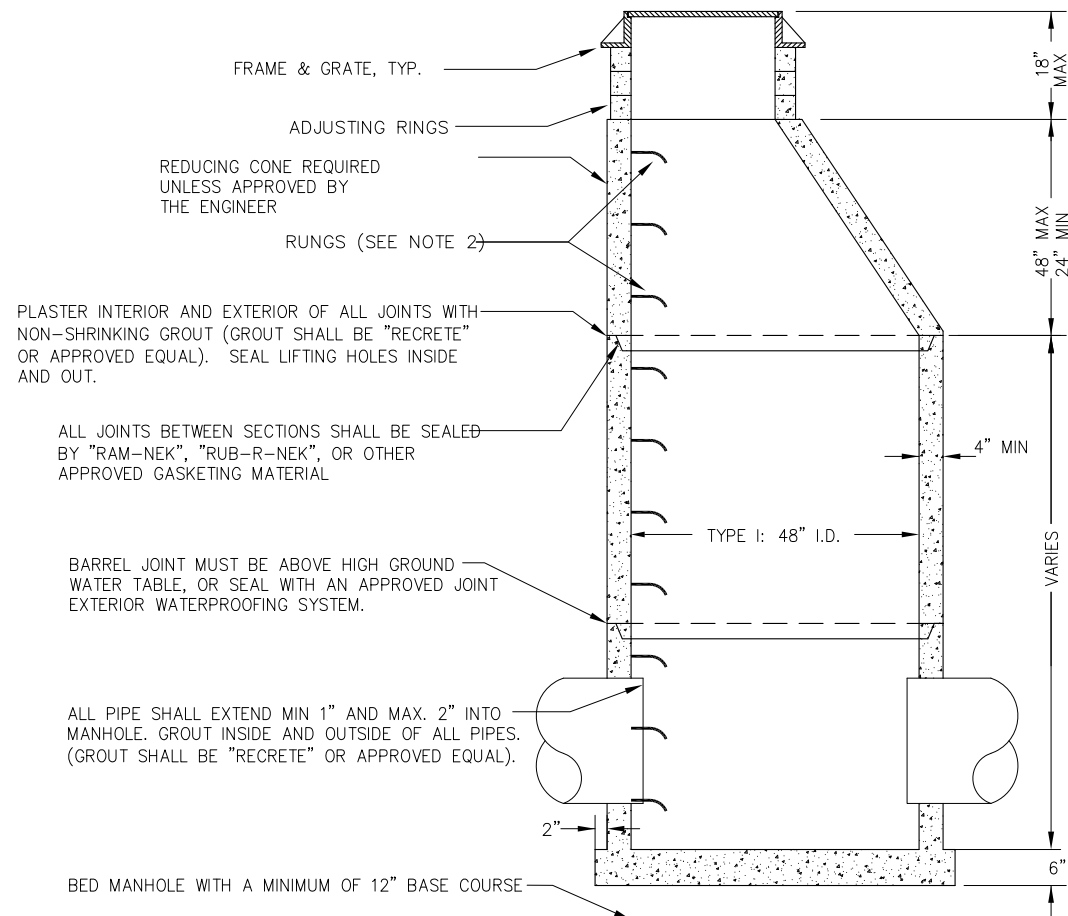
**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

SHEET TITLE: **TYPICAL DETAILS**

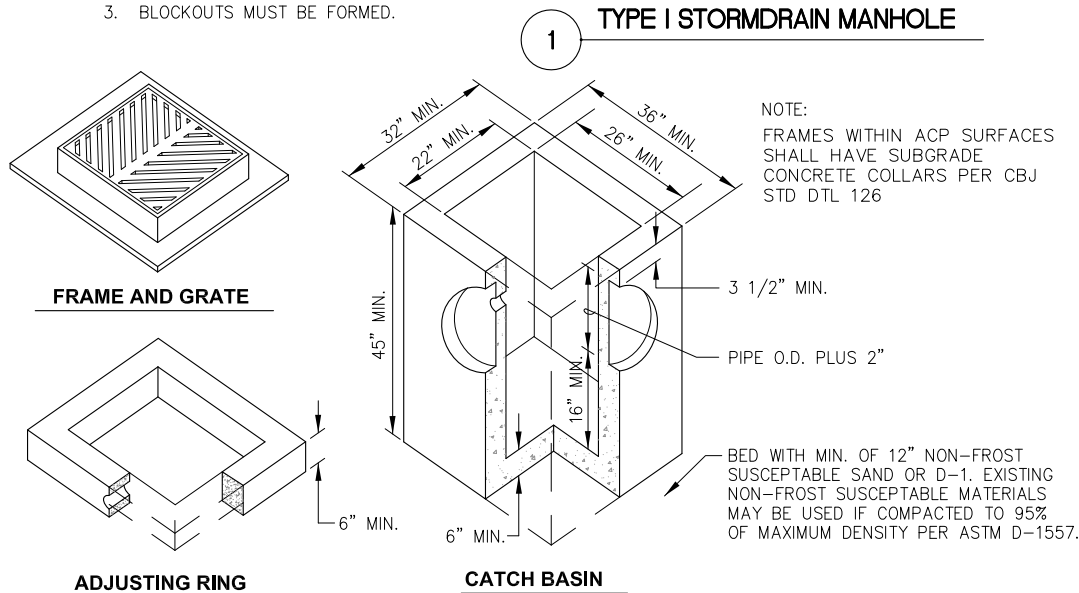
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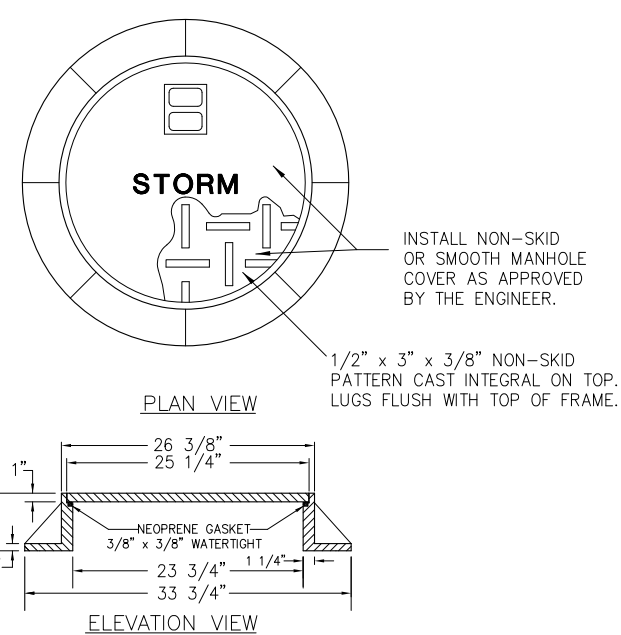
SHEET
31 OF 52



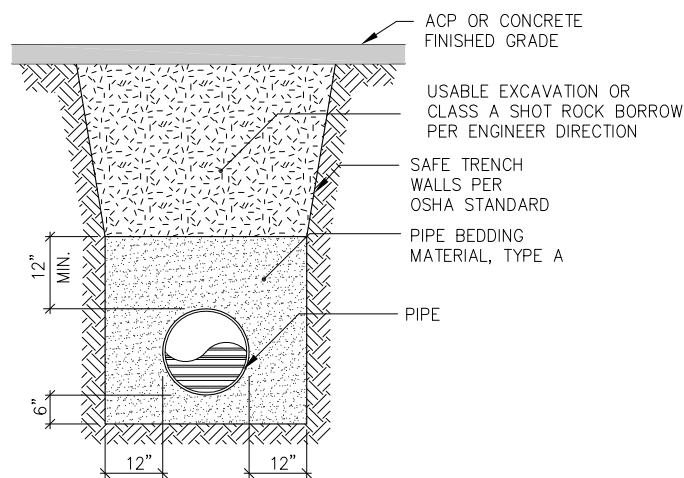
- NOTE:
- RUNGS PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE. LAST RUNG 18" MAX FROM BOTTOM OF MANHOLE, AND TOP RUNG 6" MAX FROM TOP OF CONE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, LAST RUNG PLACED 6" OVER SMALLEST PIPE.
 - REFER TO A.S.T.M. C-478 FOR DESIGN REQUIREMENTS AND C-478-69 FOR MINIMUM STEEL FOR BARREL. BARREL SHALL BE IMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE.
 - BLOCKOUTS MUST BE FORMED.



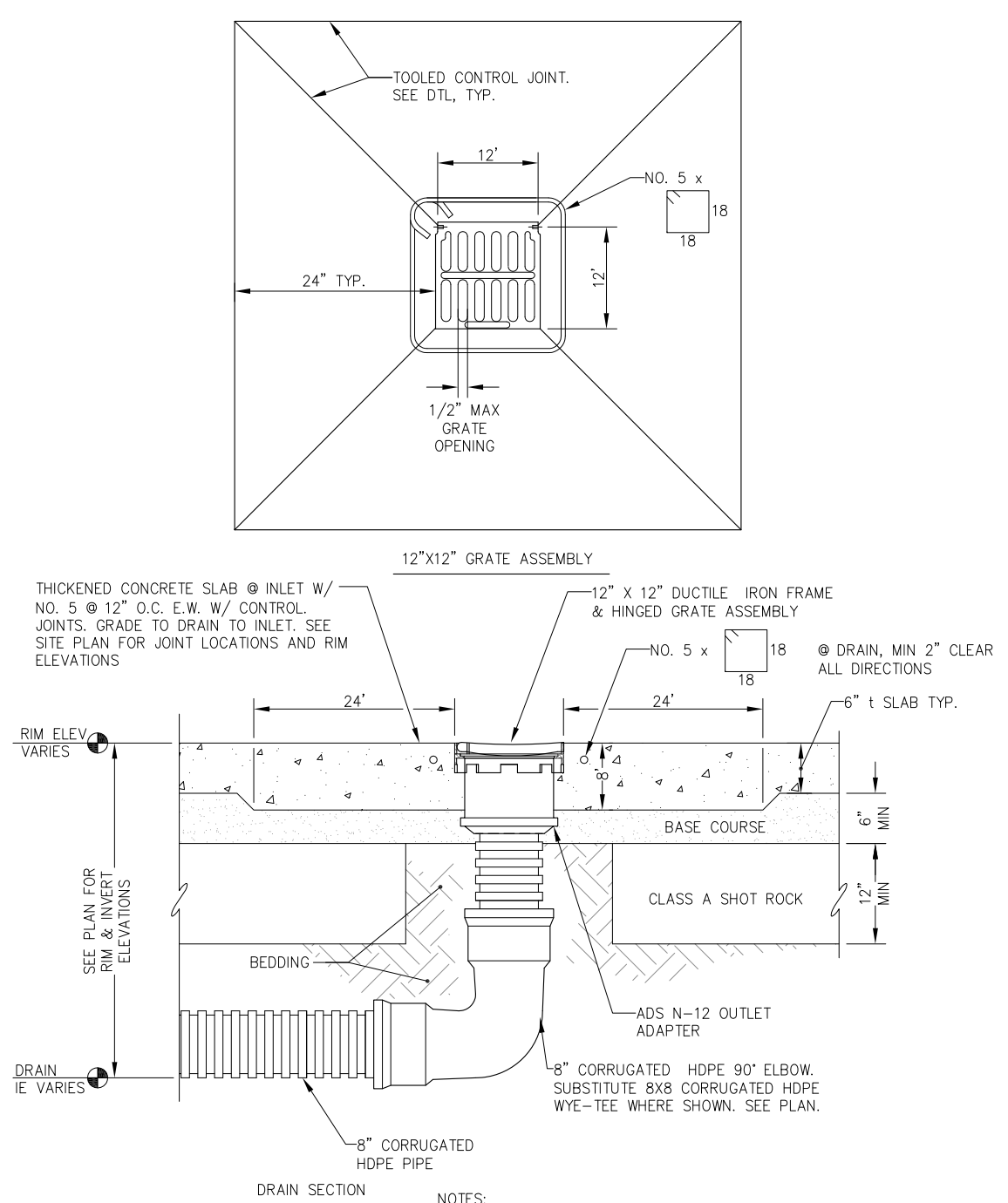
3 TYPE III CATCH BASIN



- 2 STORMDRAIN MAHOLE
SOLID LID AND FRAME
- NOTE:
- FRAME MUST BE MACHINED TO FIT WATERTIGHT NEOPRENE GASKET.
 - COVER SHALL BE WATER TIGHT WITH NO HOLES, SHALL HAVE THE WORD "STORM" CAST IN AND SHALL BE PROVIDED WITH AN INTEGRAL POCKET LIFT HANDLE.
 - FRAME AND COVER SHALL BE DUCTILE IRON AND SHALL CONFORM TO AASHTO M-306

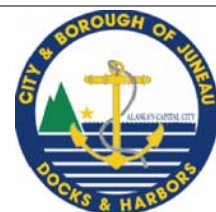


4 TYPICAL PIPE BEDDING SECTION



- NOTES:
- AREA 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.
 - INSTALL DRAIN PER MANUFACTURER'S RECOMMENDATIONS.
 - SEE SITE PLAN FOR DRAIN LAYOUT, LOCATIONS AND ELEVATIONS.
 - SEE PIPE BEDDING SECTION FOR PIPE INSTALLATION.
 - MODIFY TYPICAL SECTION WHERE DRAIN IS LOCATED ADJACENT A CURB OR IN LANDSCAPE AREA. SEE LANDSCAPE SHEETS FOR TYPICAL SECTION IN THESE AREAS.

5 AREA DRAIN



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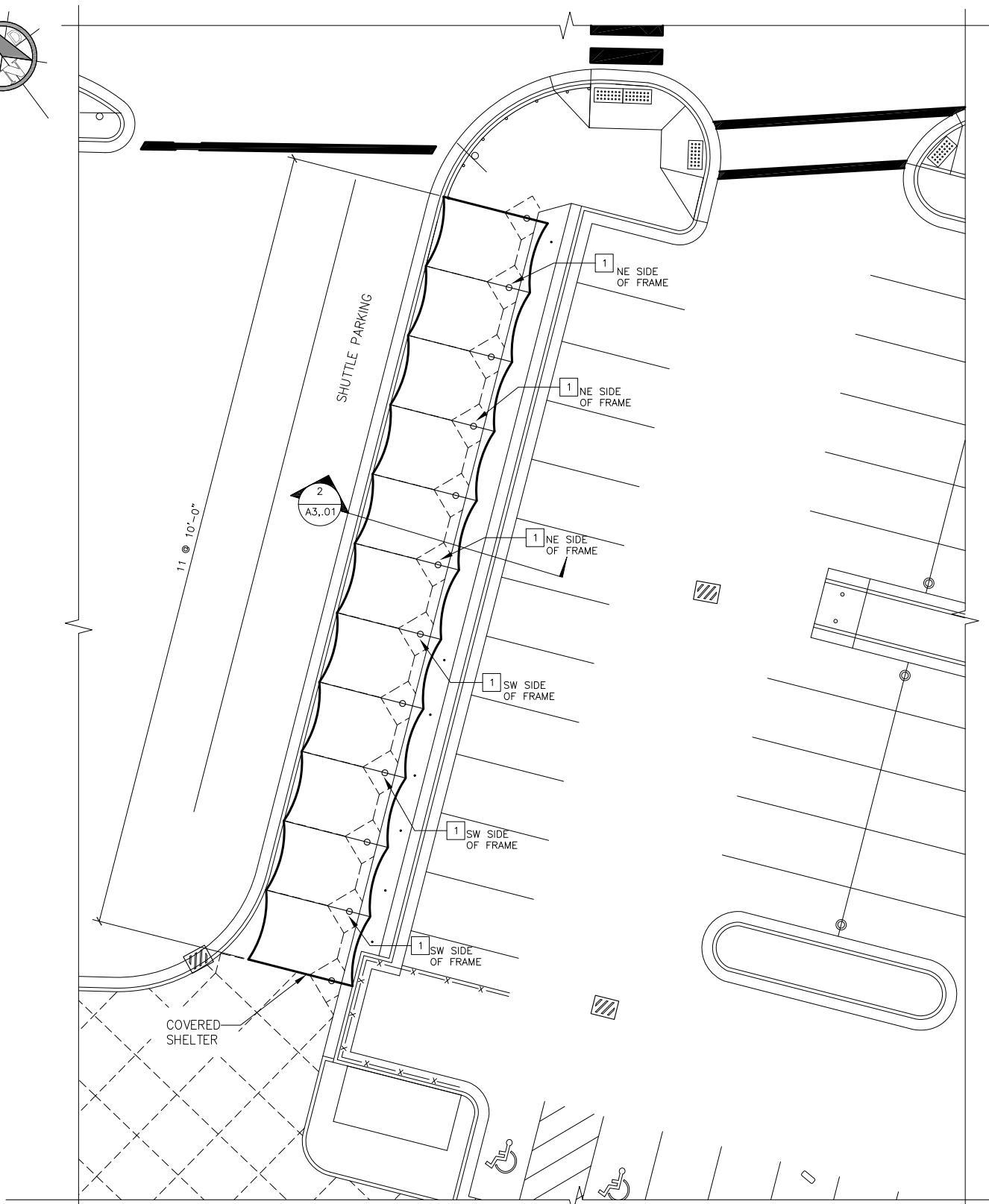
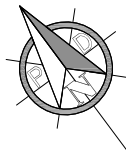
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CONTRACT NO. DH13-017**

SHEET TITLE: **TYPICAL DETAILS**

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2.23
SHEET
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SHEET
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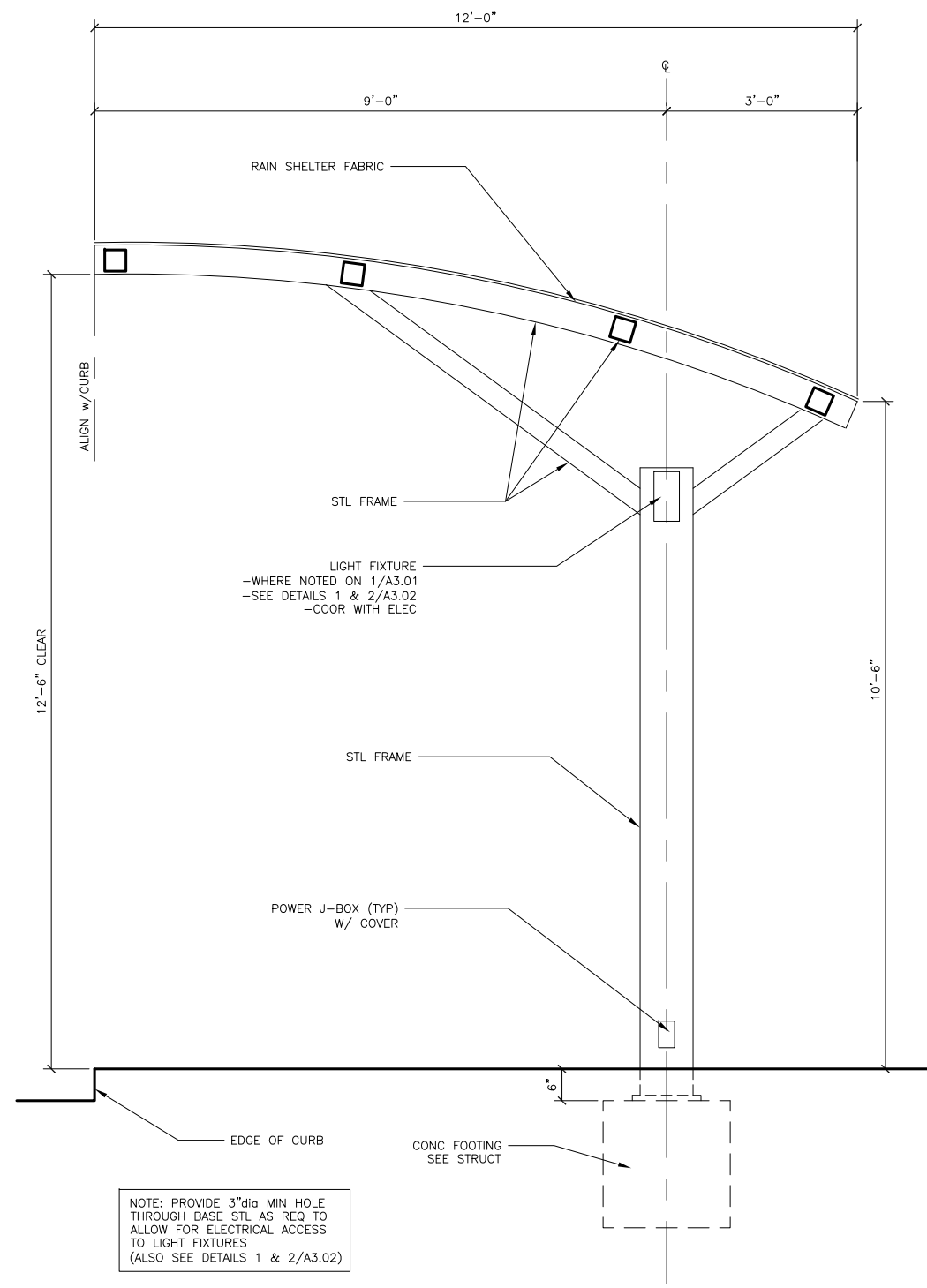


1 ENLARGED SITE PLAN - SHUTTLE PARKING CANOPY

SCALE: 0' 5' 10' 20'

KEY NOTES

1 LIGHTS



2 SHUTTLE PARKING CANOPY SECTION

10089/X_A4.2-2

SCALE: 0 1' 2' 4'



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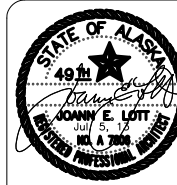
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SCALE:



DATE: 7/8/13

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CONTRACT NO. DH13-017

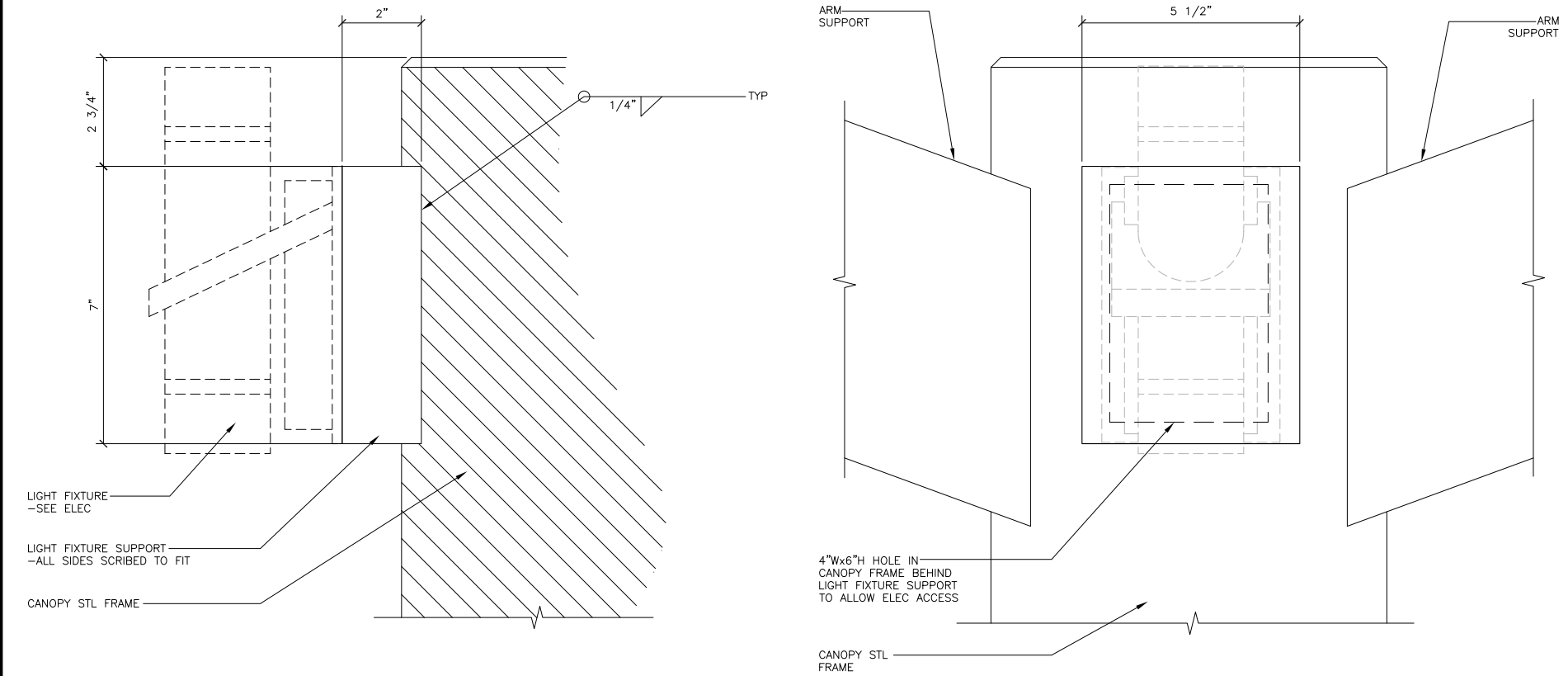
SHEET TITLE:

SHUTTLE PARKING CANOPY
ENLARGED PLAN AND SECTION

PND PROJECT NO.: 102081

DWG. FILE:

A3.01
SHEET
34 OF 52



1

LIGHT FIXTURE SUPPORT (SIDE)
10089/X_A4.03-1

SCALE: 0 3" 6"

2

LIGHT FIXTURE SUPPORT (FRONT)
10089/X_A4.03-2

SCALE: 0 3" 6"



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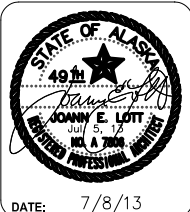
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DESIGN: JL
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APPROVED: JL

SCALE: SCALE IN FEET
0 25 50 FT.

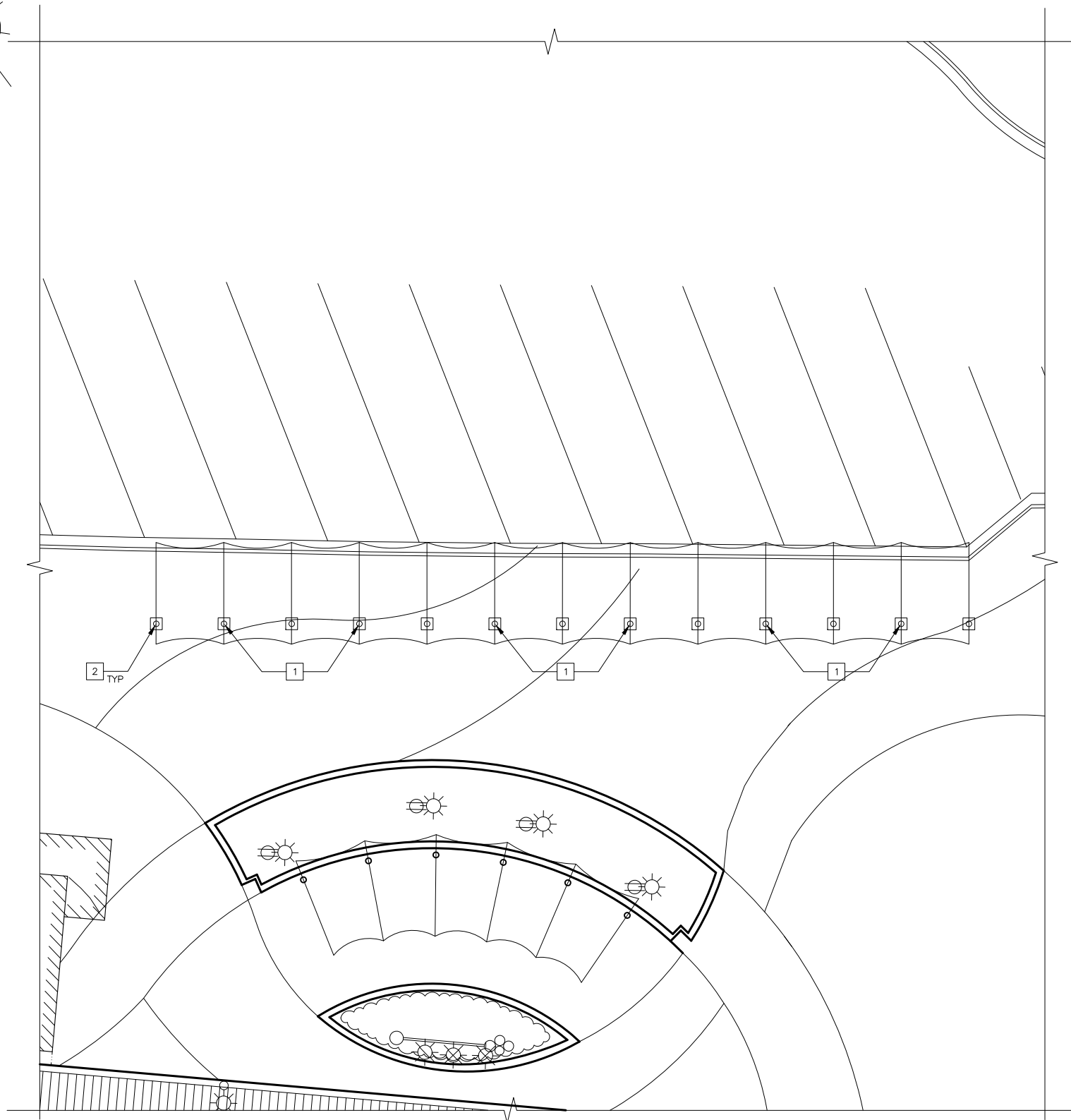
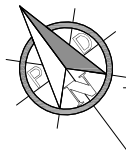


**CRUISE SHIP TERMINAL STAGING AREA
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CONTRACT NO. DH13-017**

SHEET TITLE:
CANOPY DETAILS

PND PROJECT NO.: 102081 DWG. FILE:

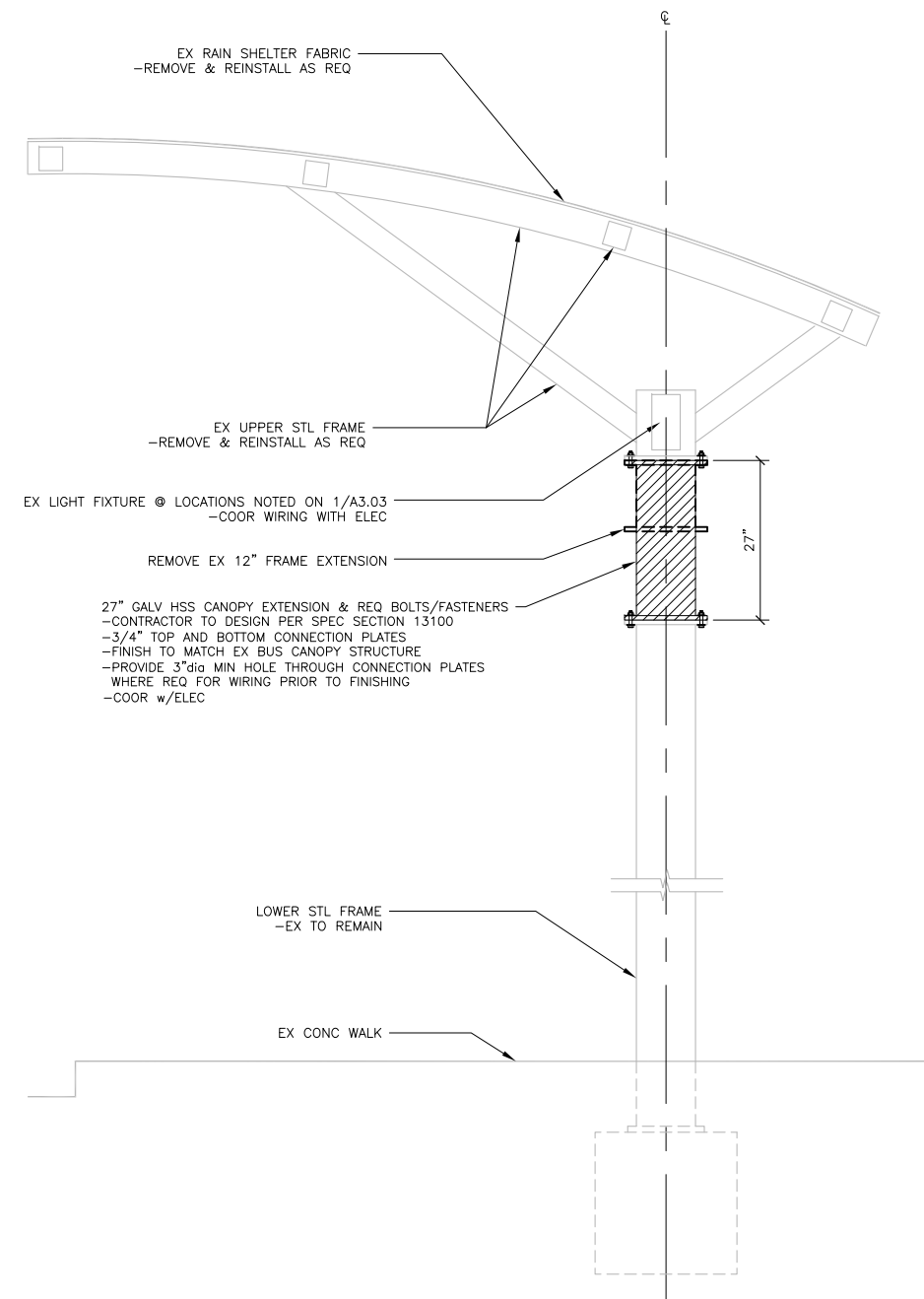
A3.02
SHEET
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1 ENLARGED SITE PLAN - BUS CANOPY

KEY NOTES

- 1 EX LIGHT ON CANOPY FRAME
-(6) LOCATIONS
- 2 EX BUS CANOPY FRAME TO
RECEIVE REVISED EXTENSION
-(13) LOCATIONS
-SEE 2/A3.03



2 BUS CANOPY SECTION
10089/X_A3.03-2

SCALE: 0 1' 2' 4'



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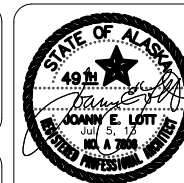
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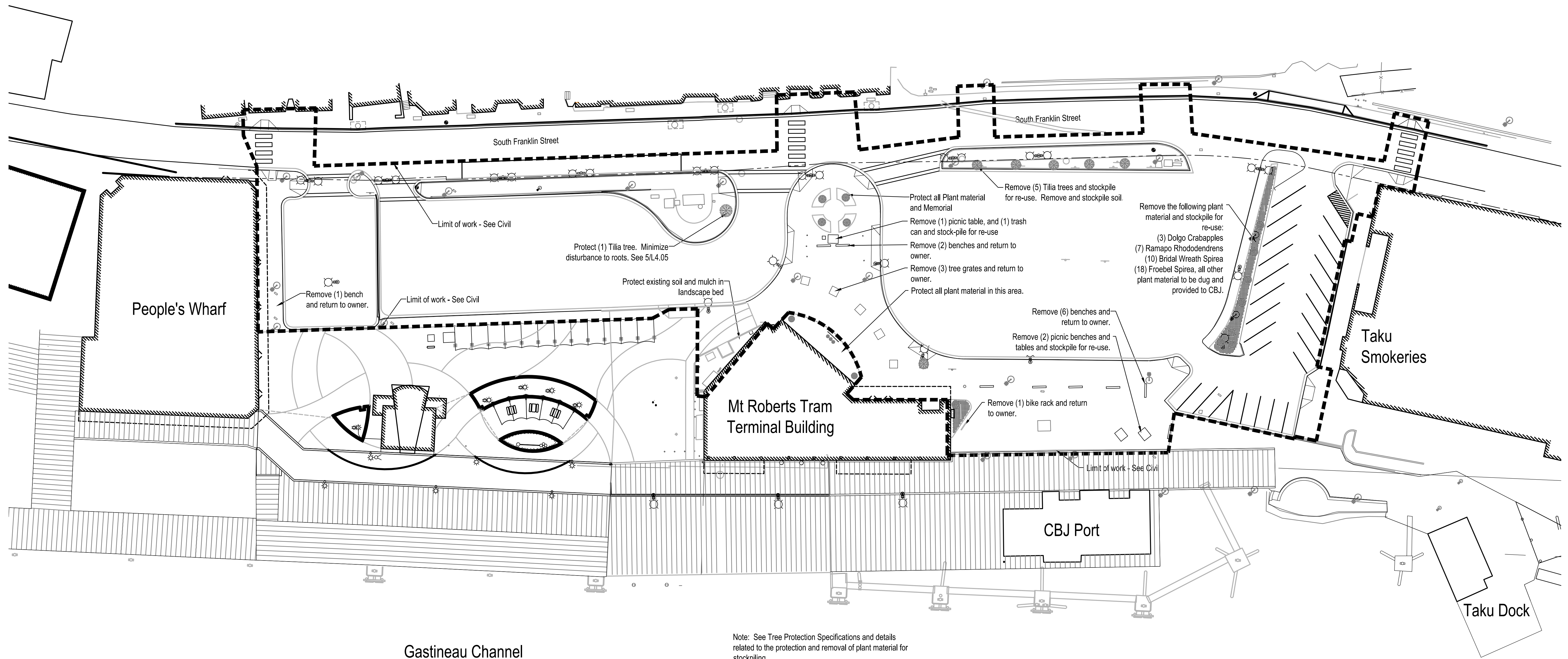
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**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
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SHEET TITLE:
**BUS CANOPY
ENLARGED PLAN AND SECTION**

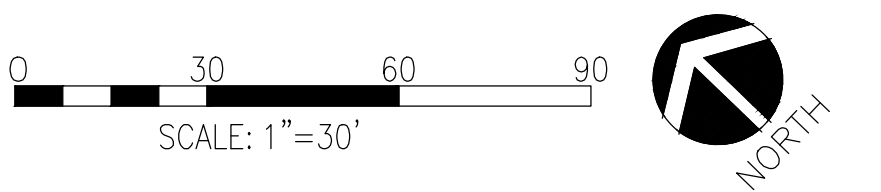
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A3.03
SHEET
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Note: See Tree Protection Specifications and details related to the protection and removal of plant material for stockpiling.

See Civil Demo for additional items, coordination and location of utilities.



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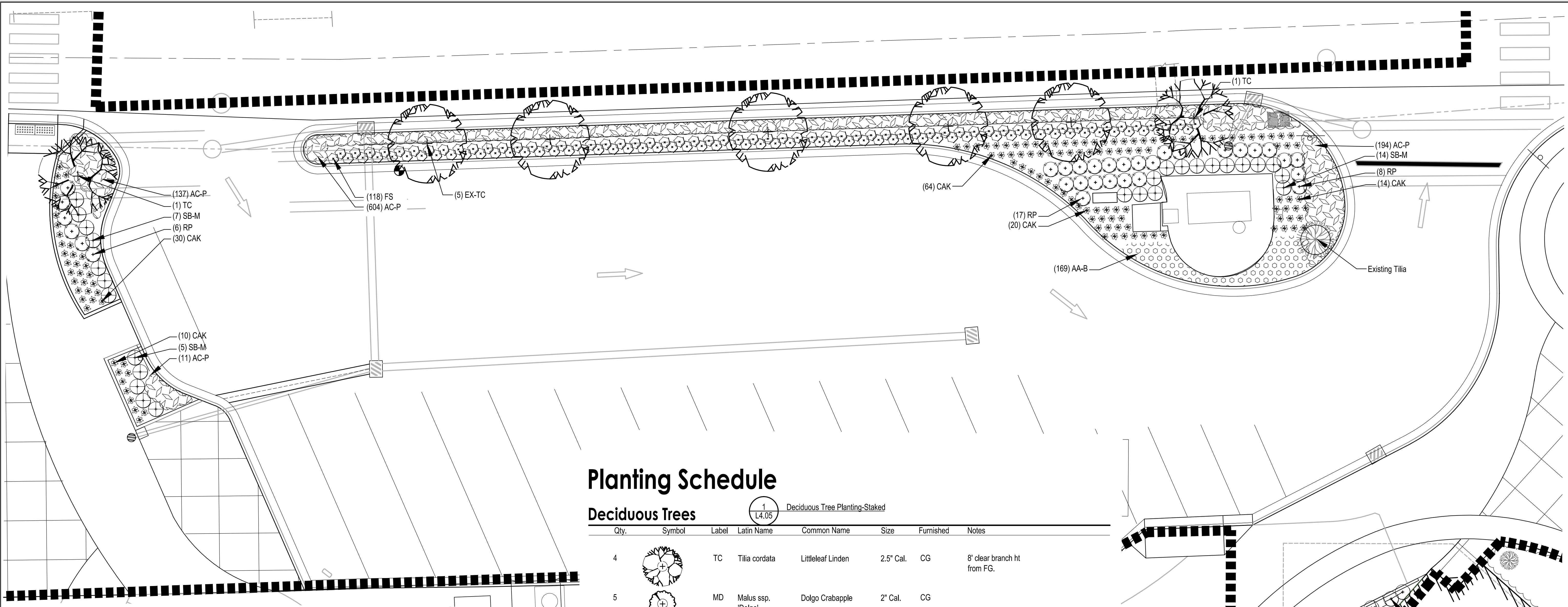


CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
LANDSCAPE DEMO PLAN

PN&D PROJECT NO.: 102081 DWG. FILE:

L4.01
SHEET
37 OF 52



Planting Schedule

Deciduous Trees

1 L4.05 Deciduous Tree Planting-Staked

Qty.	Symbol	Label	Latin Name	Common Name	Size	Furnished	Notes
4		TC	Tilia cordata	Littleleaf Linden	2.5" Cal.	CG	8' clear branch ht from FG.
5		MD	Malus ssp. 'Dolgo'	Dolgo Crabapple	2" Cal.	CG	

Shrubs

2 L4.05 Shrub Planting

Qty.	Symbol	Label	Latin Name	Common Name	Size	Furnished	Spacing
239		FS	Fagus sylvatica	European Beech	#7	CG	Per plans *requires regular pruning
38		RP	Rhododendron 'Ramapo'	Ramapo Rhododendron	#7	CG	Per plans
26		SB-M	Spirea bumalda 'Shirobana'	Shirobana Spirea	#7	CG	Per plans

Perennials and Grasses

3 L4.05 Perennial Planting

Qty.	Symbol	Label	Latin Name	Common Name	Size	Furnished	Notes
661		AA-B	Astilbe 'Washington'	Washington Astilbe	#1	CG	1' o.c.
1643		AC-P	Astilbe chinensis 'Vision in Red'	Dwarf Red Astilbe	#1	CG	1' o.c.
226		CAK	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#1	CG	Per plans

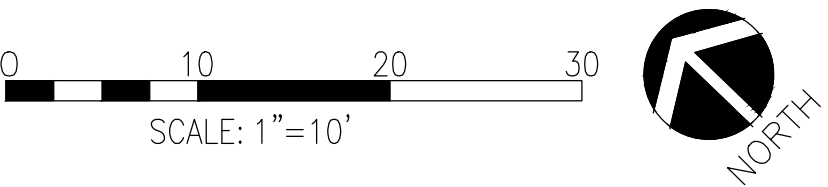
Planting Schedule - Stockpiled materials - for reuse

Deciduous Trees

Qty.	Symbol	Label	Latin Name	Common Name	Size	Furnished	Notes
3		EX-M	Malus ssp. 'Dolgo'	Dolgo Crabapple			Existing Stockpiled Tree
5		EX-T	Tilia ssp.	Linden			Existing Stockpiled Tree

Shrubs

Qty.	Symbol	Label	Latin Name	Common Name	Size	Furnished	Notes
3		EX-RC	Rhododendron 'Catawbiense'	Catawbiense Rhodies			Existing Stockpiled Shrubs
9		EX-RR	Rhododendron 'Ramapo'	Ramapo Rhodies			Existing Stockpiled Shrubs
8		EX-SB	Spirea 'Bridal Wreath'	Bridal Wreath Spirea			Existing Stockpiled Shrubs
17		EX-SF	Spirea 'Froebel'	Froebel Spirea			Existing Stockpiled Shrubs



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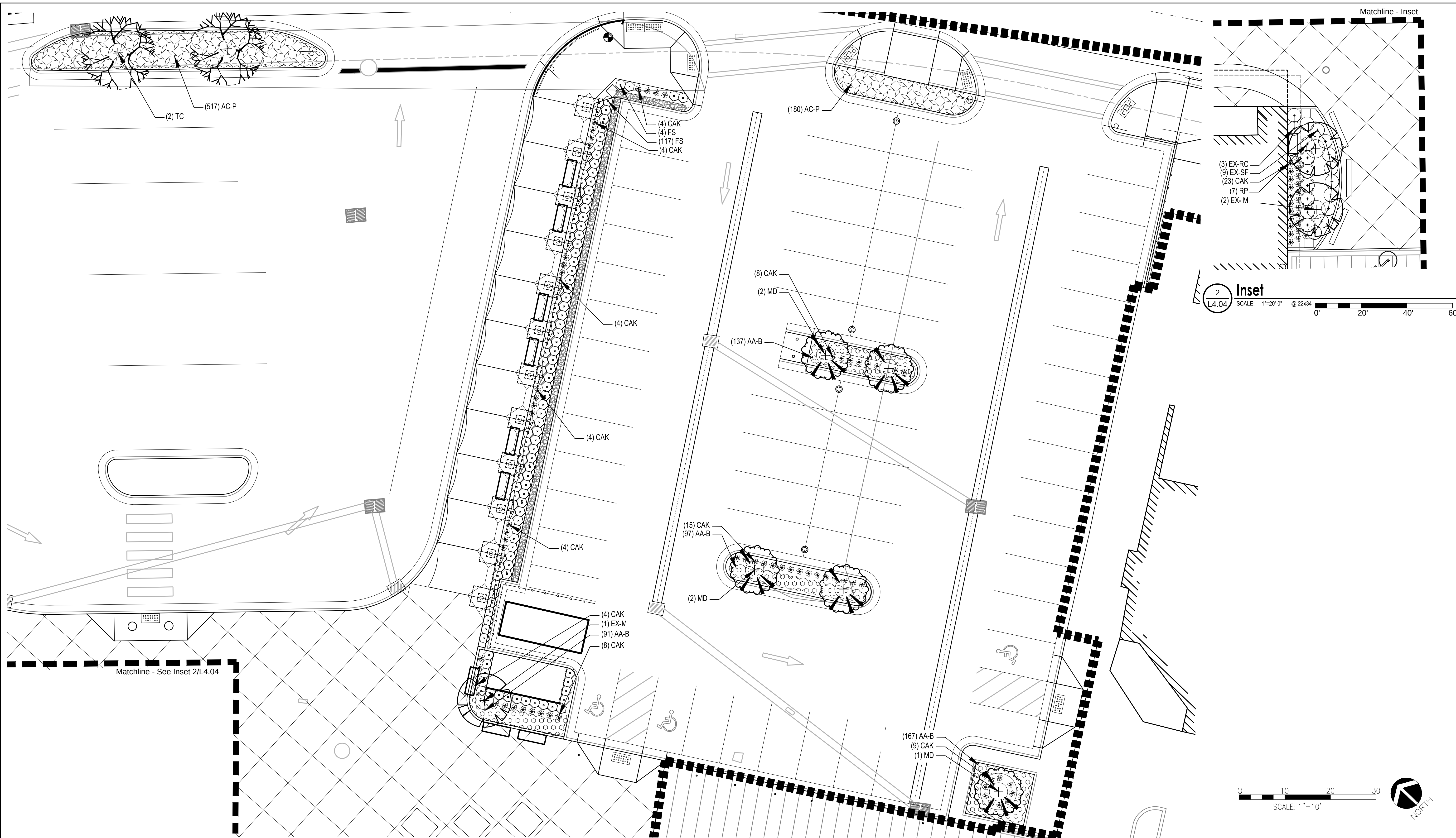


CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017

SHEET TITLE:
PLANTING PLAN

PN&D PROJECT NO.: 102081
DWG. FILE:

L4.03
SHEET
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2
L4.04
SCALE: 1"=20'-0" @ 22x34
0' 20' 40' 60'

0 10 20 30
SCALE: 1"=10'
NORTH



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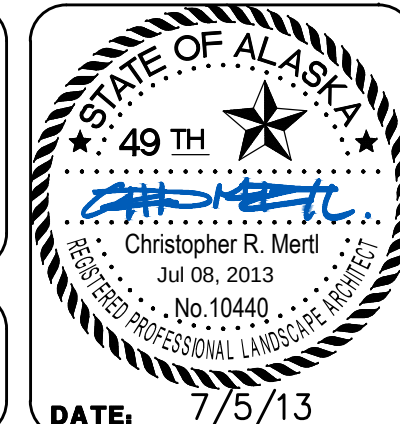
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SCALE:

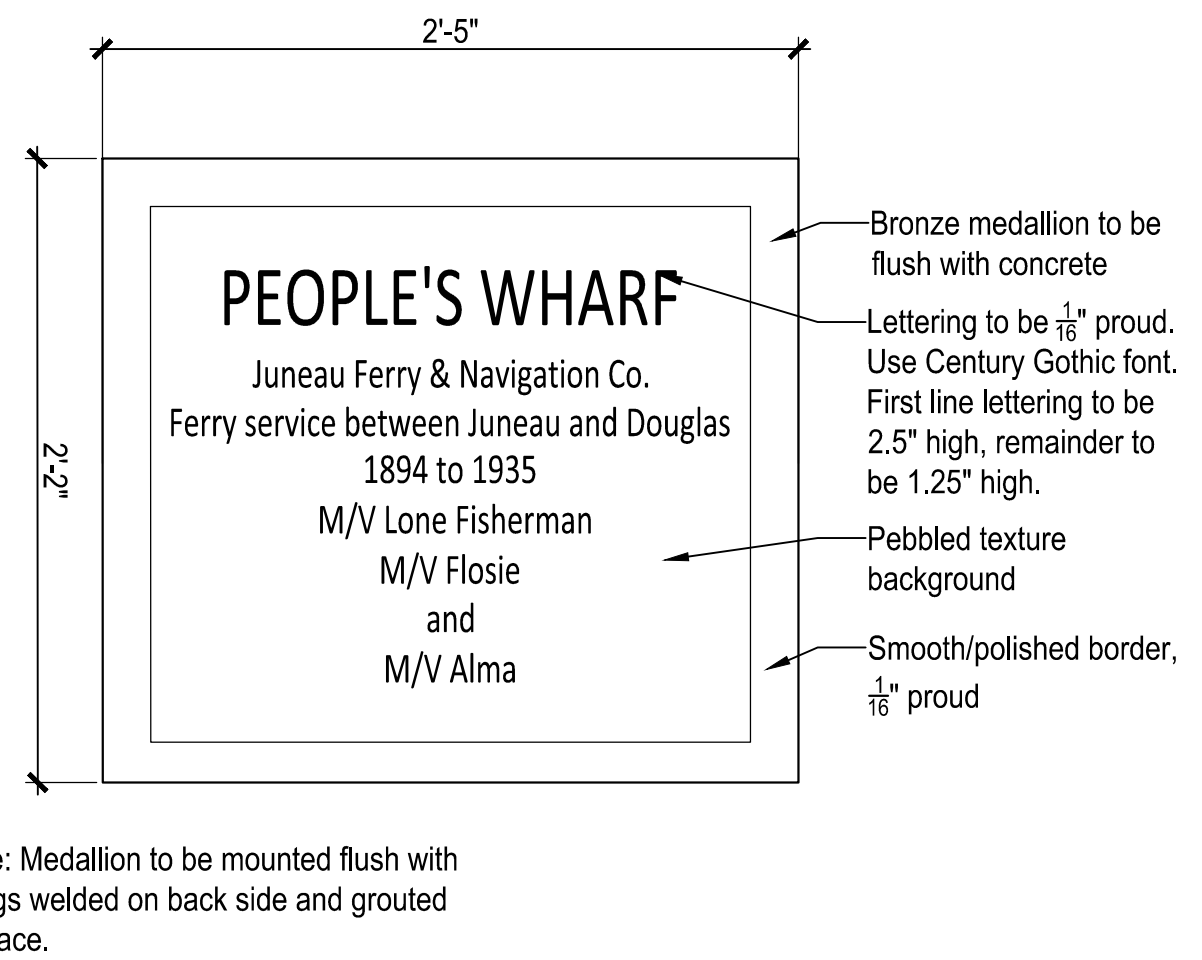


**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

SHEET TITLE: **PLANTING PLAN**

PN&D PROJECT NO.: 102081 DWG. FILE:

L4.04
SHEET
40 OF 52

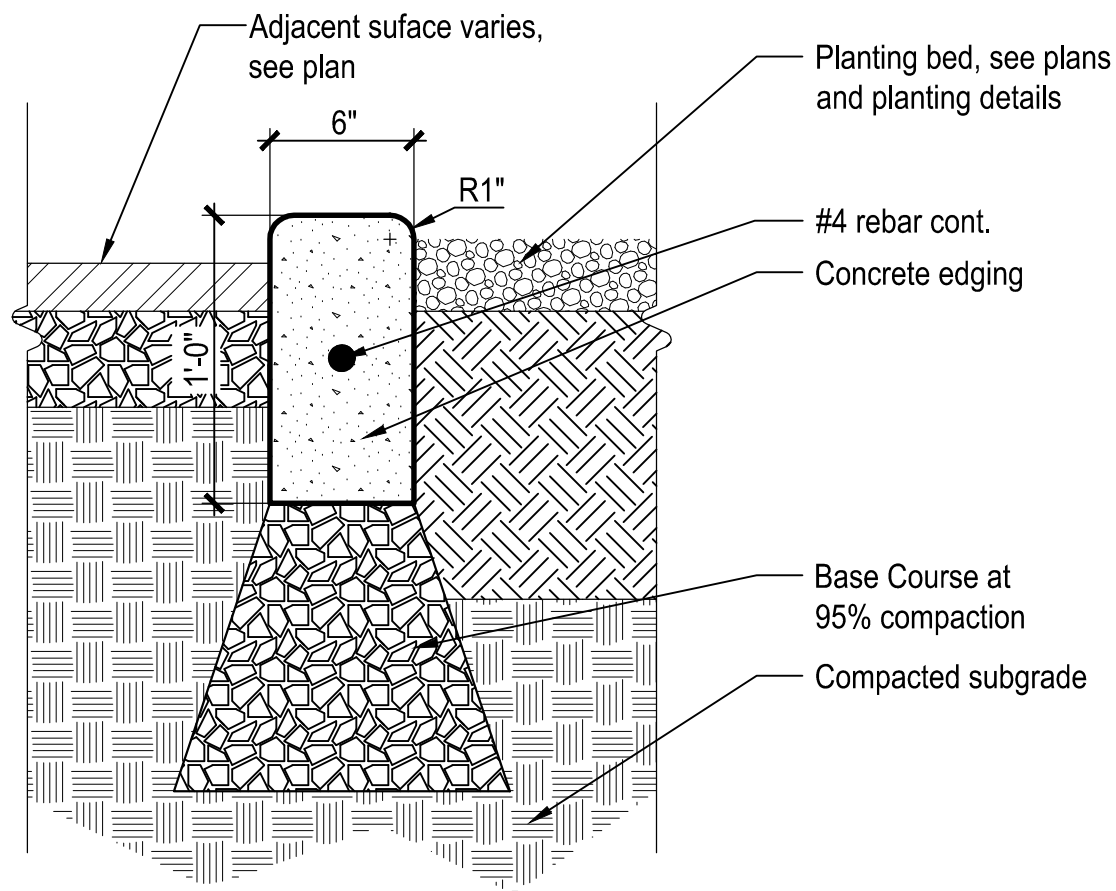


7
L4.05

People's Wharf Medallion

SCALE: 1-1/2"=1'-0"

dt-warf-plaq.dwg

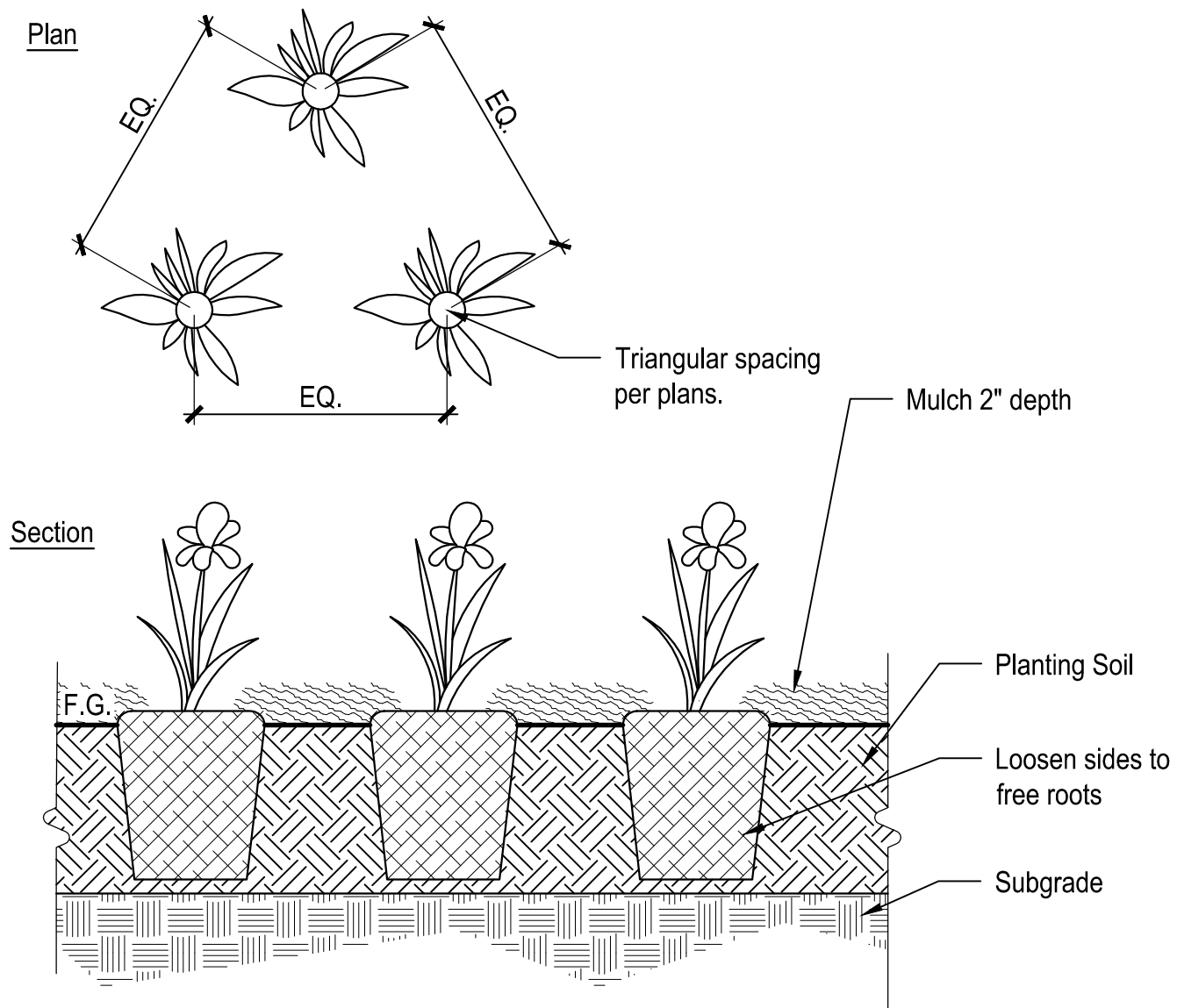


5
L4.05

Concrete Edging - 6"x1'

SCALE: 1-1/2"=1'-0"

dt-edge-conc-1ft.dwg

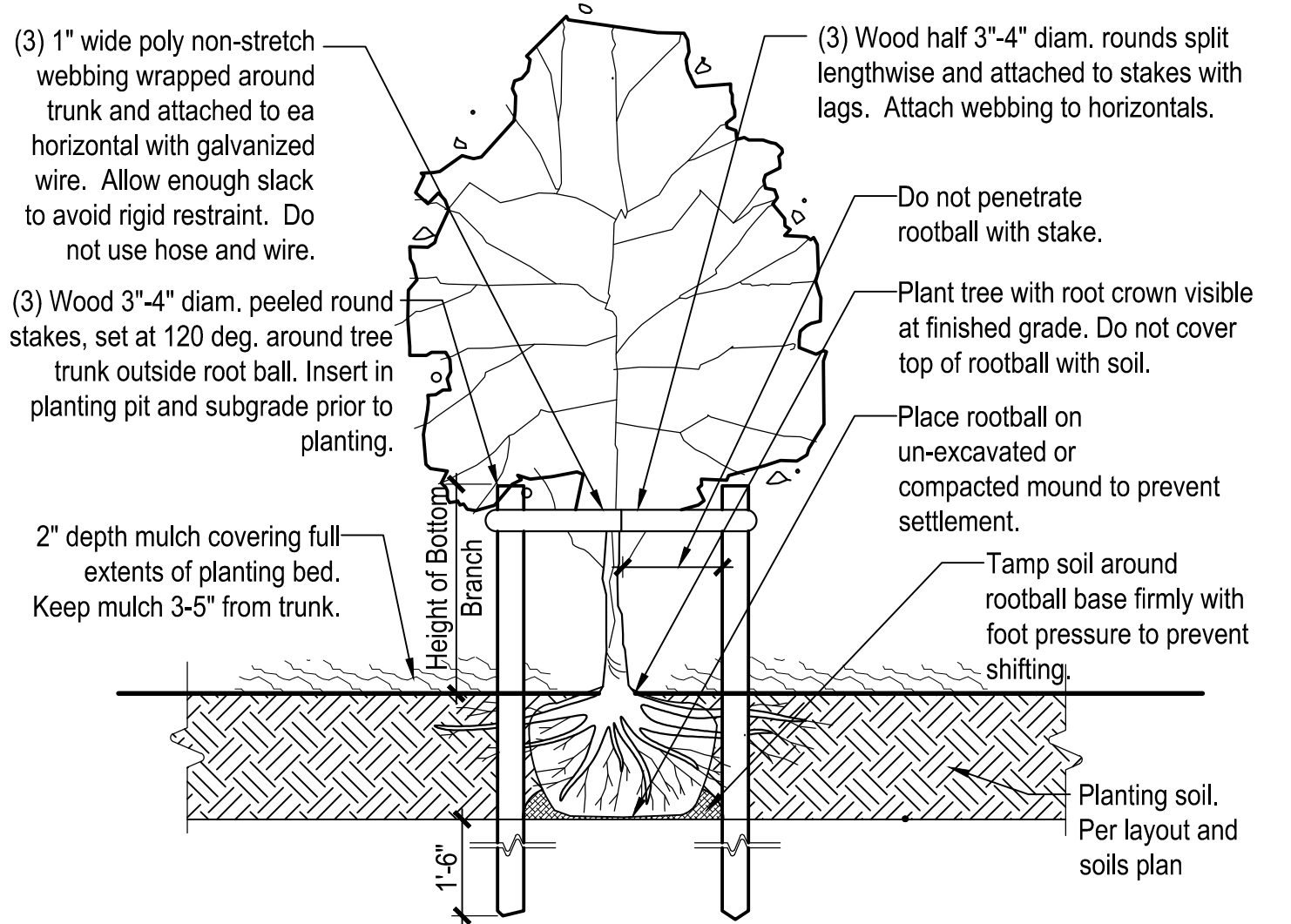


3
L4.05

Perennial Planting

SCALE: 1"=1'-0"

dt-plant-pere.dwg

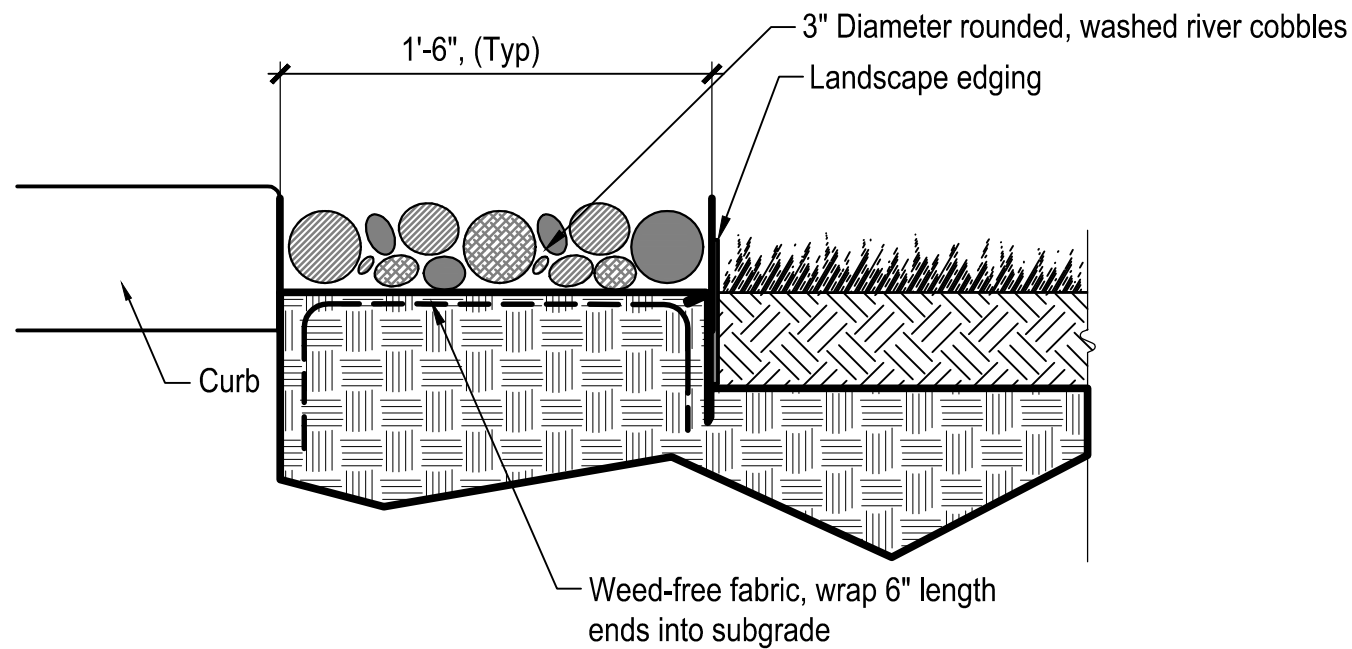


1
L4.05

Deciduous Tree Planting - Staked

SCALE: 3/4"=1'-0"

dt-tree-decod-stak.dwg



Notes: 1) install edging per manufacturer's specifications

6
L4.05

Rock Mulch

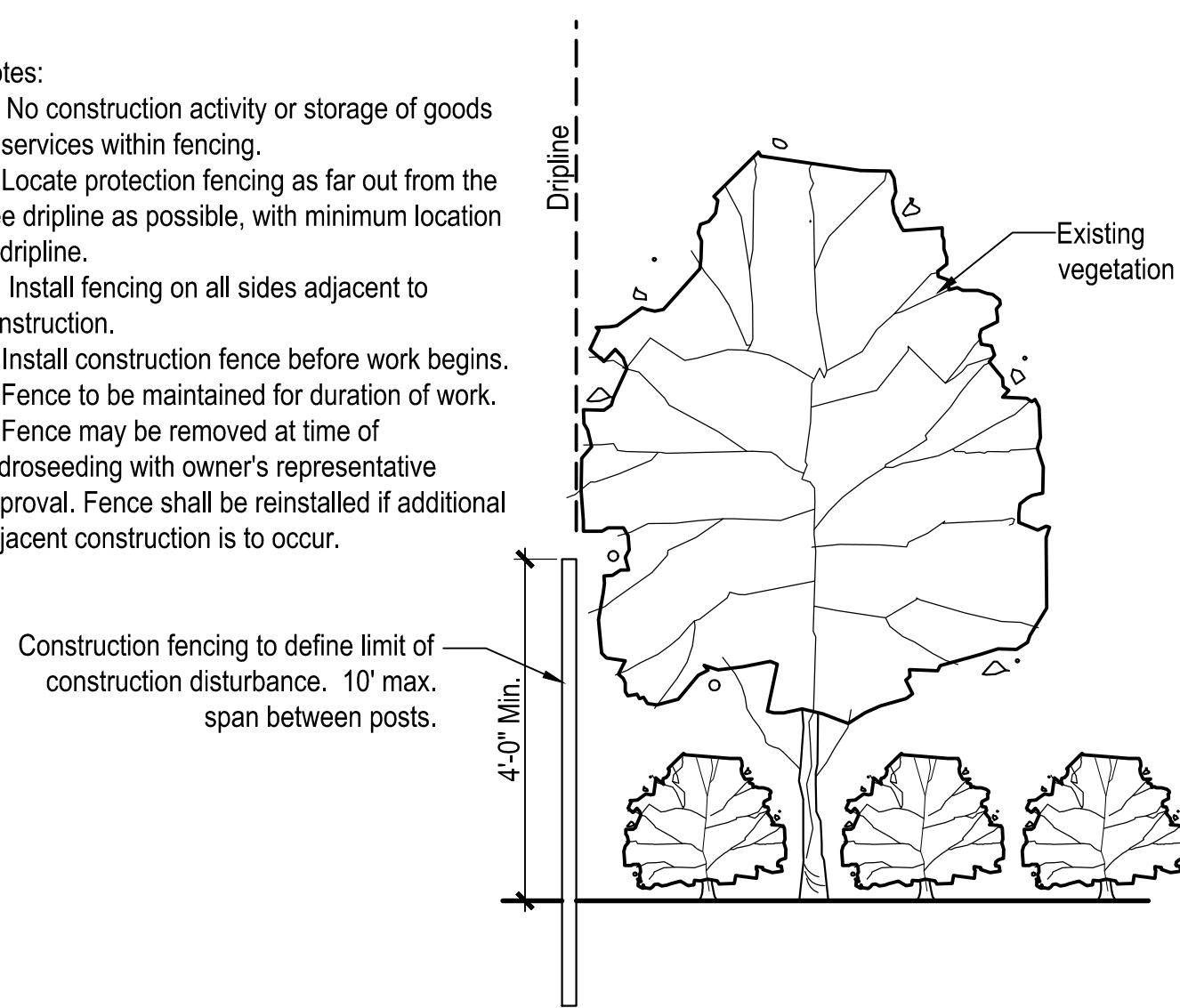
SCALE: 1-1/2"=1'-0"

dt-rock-mulch.dwg

Notes:

- 1) No construction activity or storage of goods or services within fencing.
- 2) Locate protection fencing as far out from the tree dripline as possible, with minimum location at dripline.
- 3) Install fencing on all sides adjacent to construction.
- 4) Install construction fence before work begins.
- 5) Fence to be maintained for duration of work.
- 6) Fence may be removed at time of hydroseeding with owner's representative approval. Fence shall be reinstalled if additional adjacent construction is to occur.

Construction fencing to define limit of construction disturbance. 10' max. span between posts.

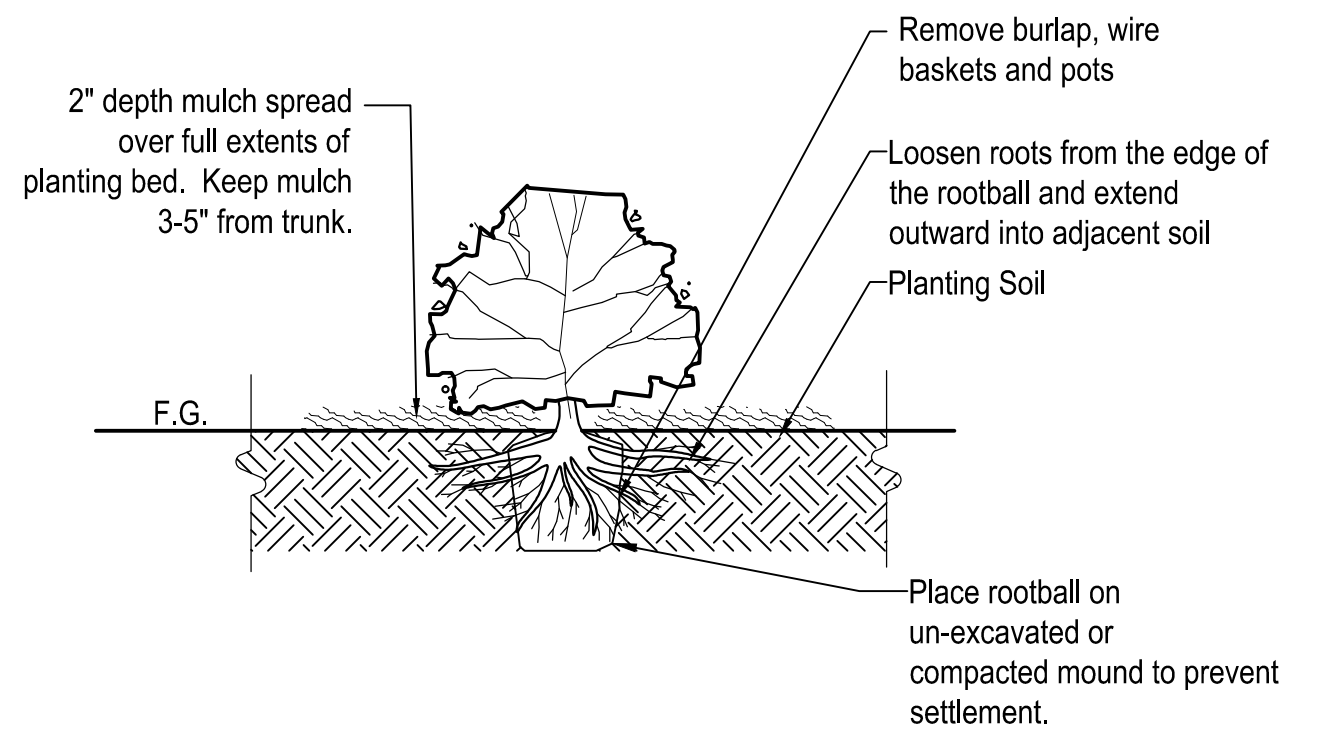


4
L4.05

Vegetation Protection - Limit of Work

SCALE: NTS

dt-plant-prot-limit.dwg



2
L4.05

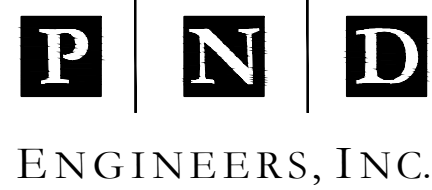
Shrub Planting

SCALE: NTS

dt-shrb.dwg



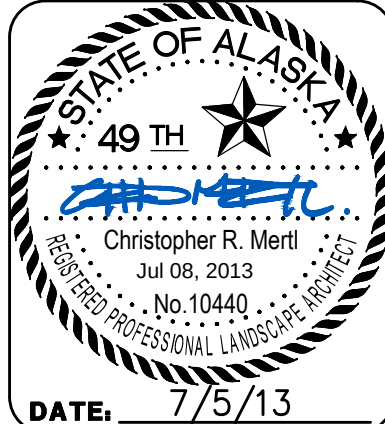
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DRAWN: SB APPROVED:

SCALE:



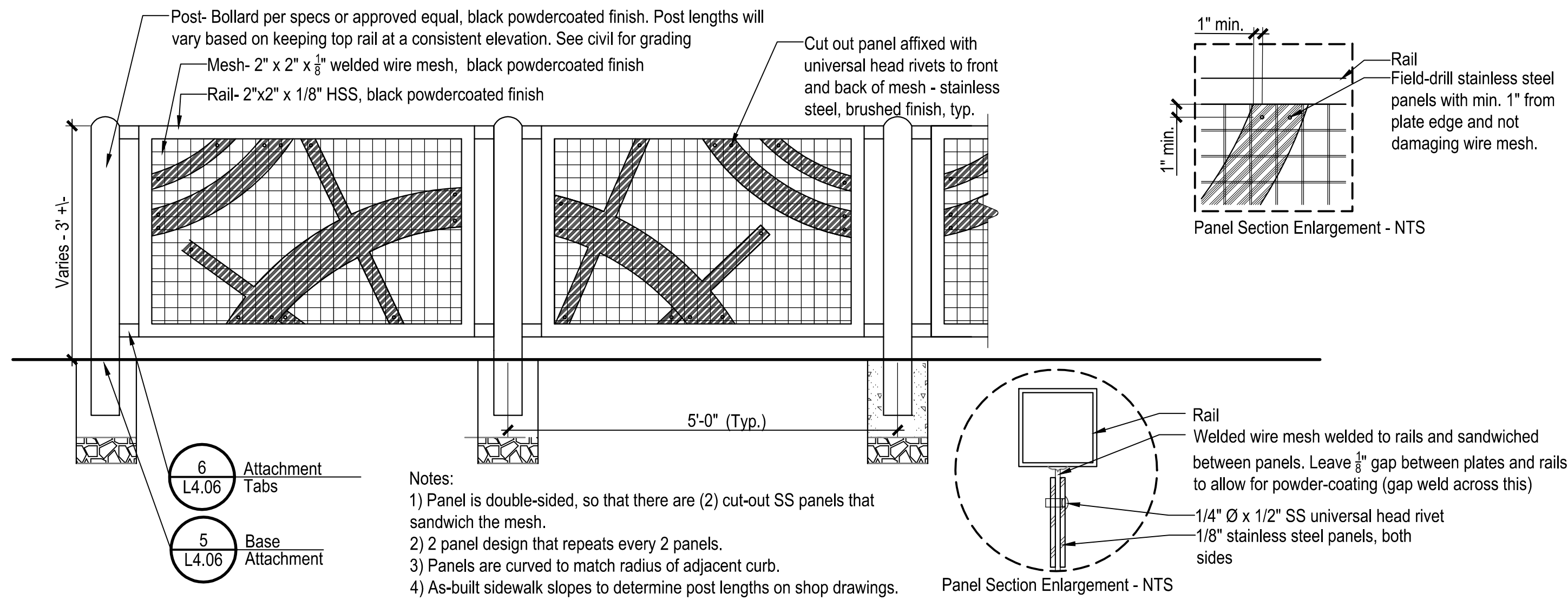
**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS PHASE II
CONTRACT NO. DH13-017**

SHEET TITLE:
LANDSCAPE DETAILS

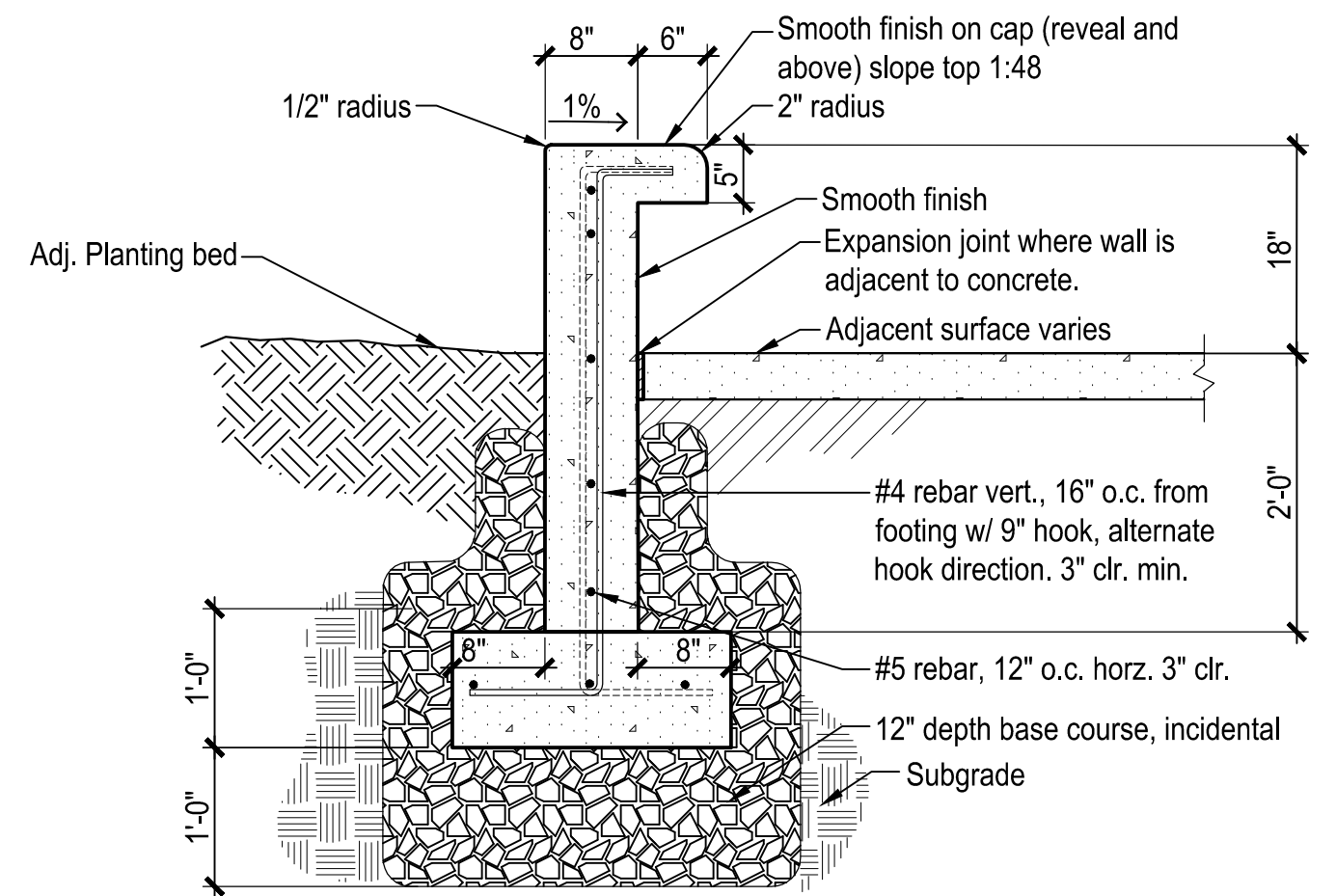
PN&D PROJECT NO.: 102081

DWG. FILE:

L4.05
SHEET
41 OF 52



Note: TOW elevation constant, unless otherwise indicated on plans



3 Pedestrian Barrier

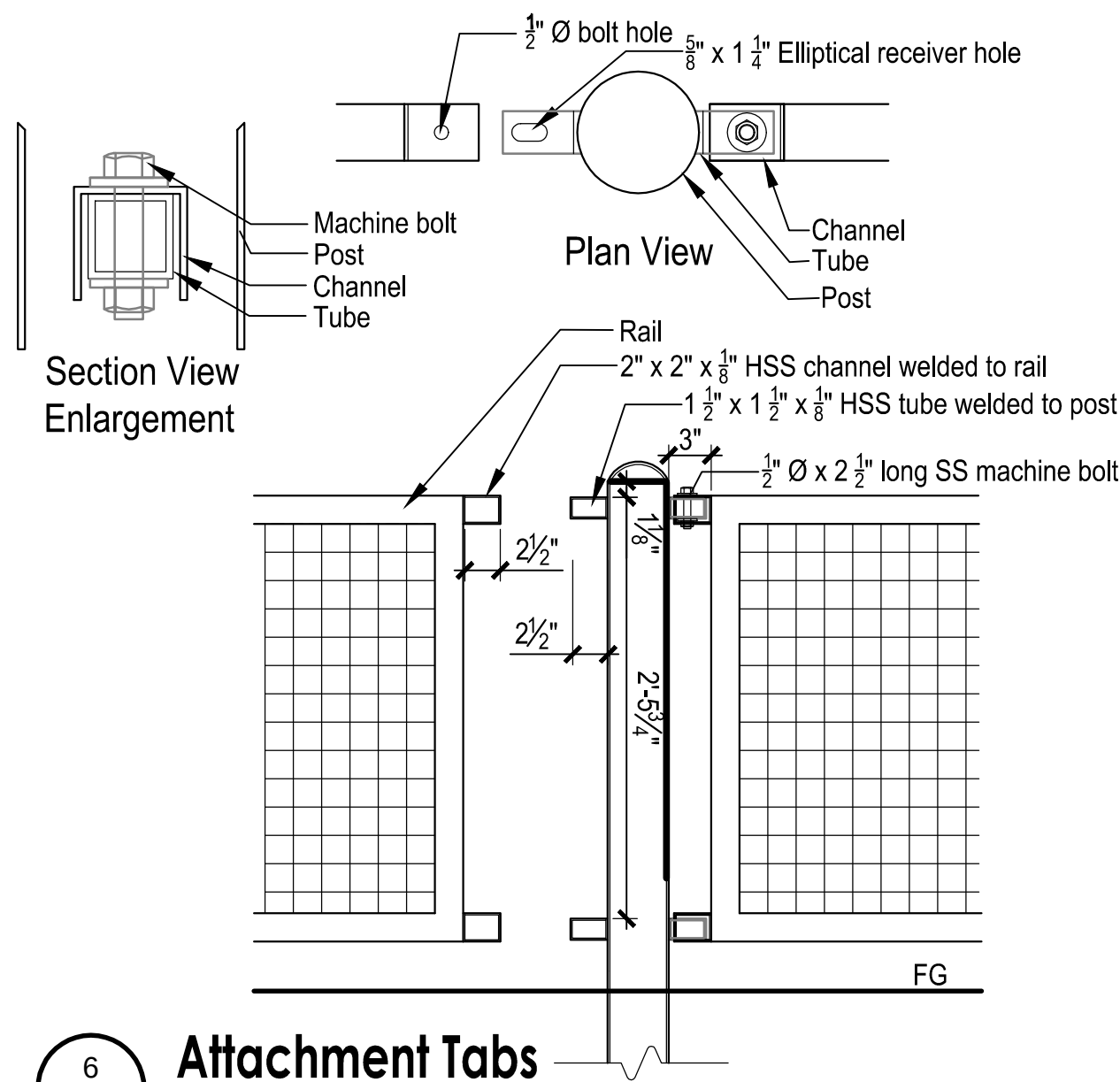
SCALE: 3/4"=1'-0"

dt-rail-guard.dwg

1 Seat Wall

SCALE: 3/4"=1'-0"

dt-wall-sect.dwg

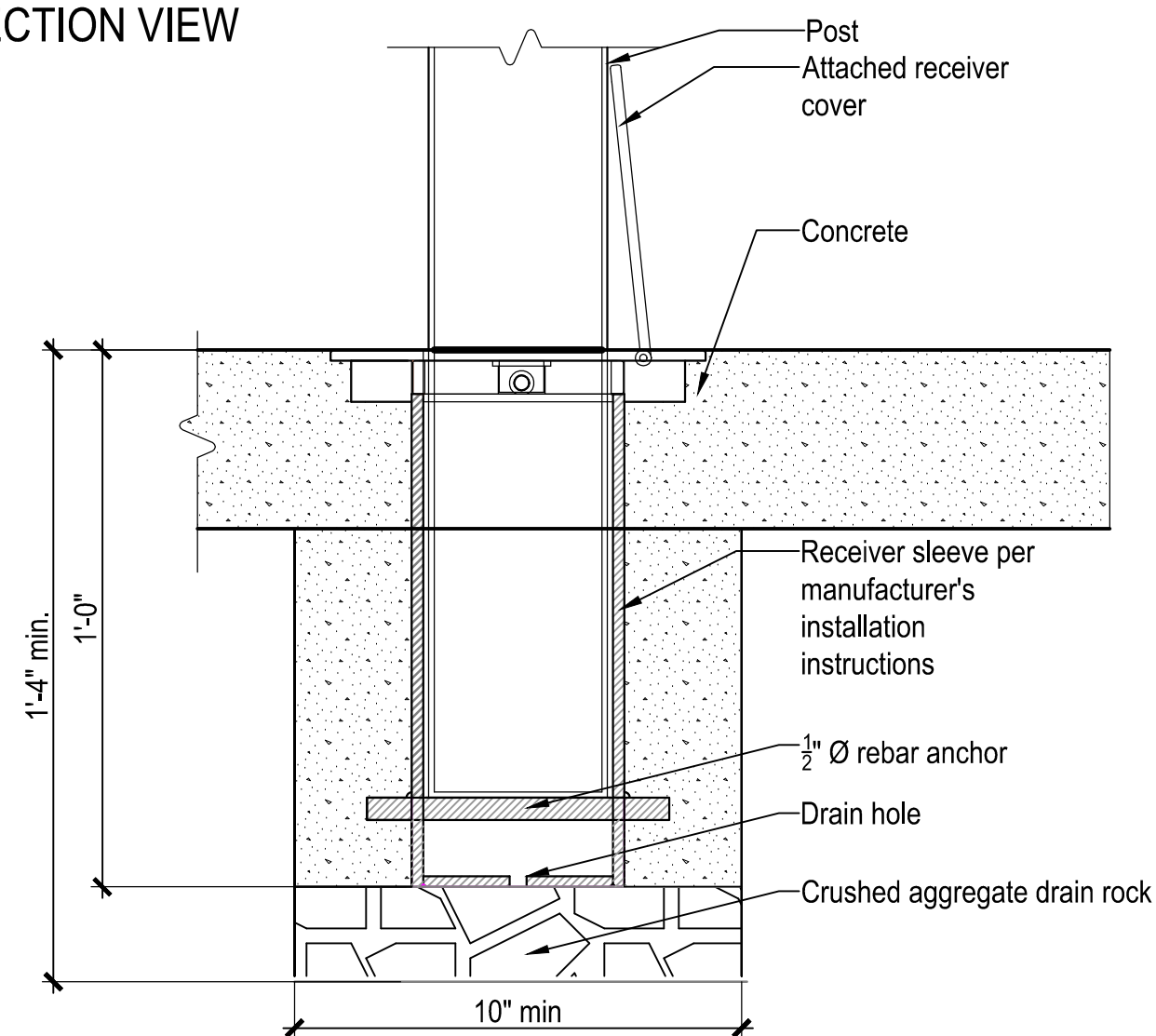


6 Attachment Tabs

SCALE: 1"=1'-0"

dt-guard-rail-atc
©Corvus Design, Inc.

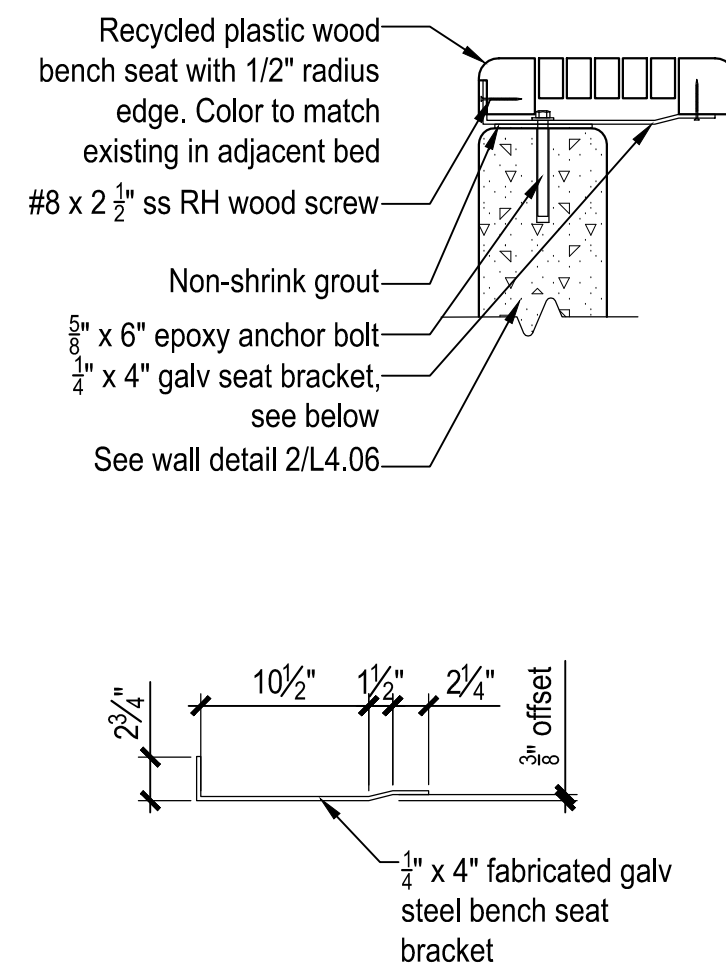
SECTION VIEW



5 Base Attachment

SCALE: 3"=1'-0"

dt-guard-base-atc.dwg



4 Plastic Wood Bench

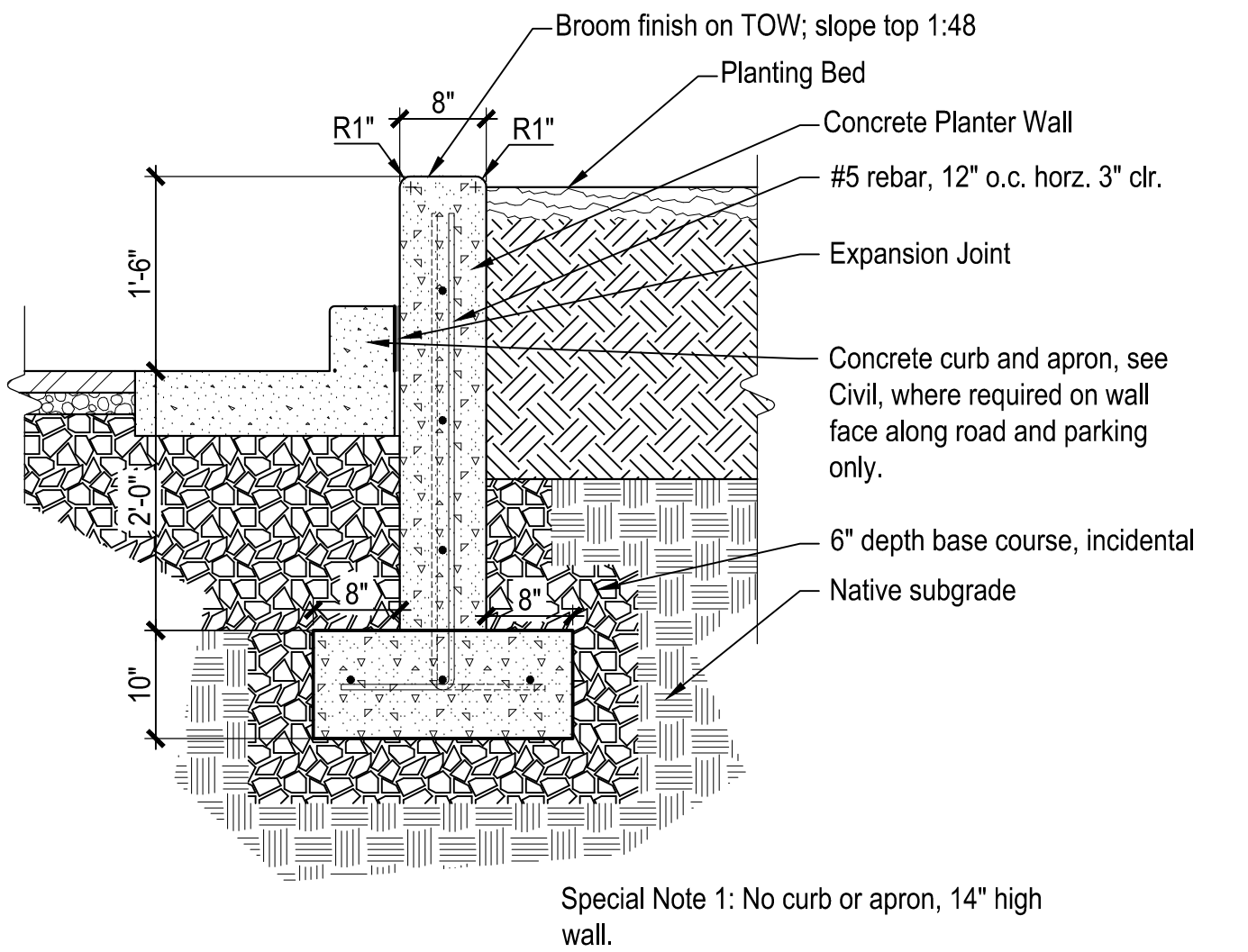
SCALE: 1"=1'-0"

dt-bench-CSTSA.dwg
©Corvus Design, Inc.

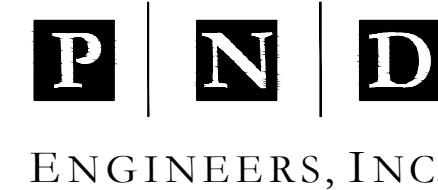
2 Planter Wall and Curb

SCALE: 3/4"=1'-0"

dt-wall-plntr.dwg



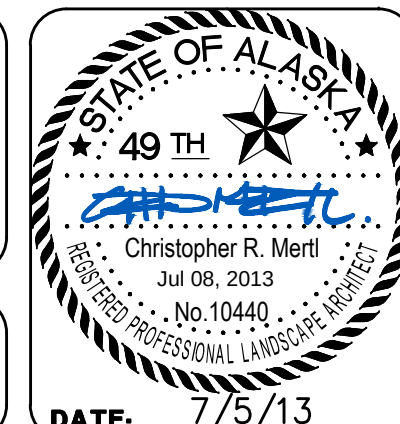
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SCALE:



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CONTRACT NO. DH13-017

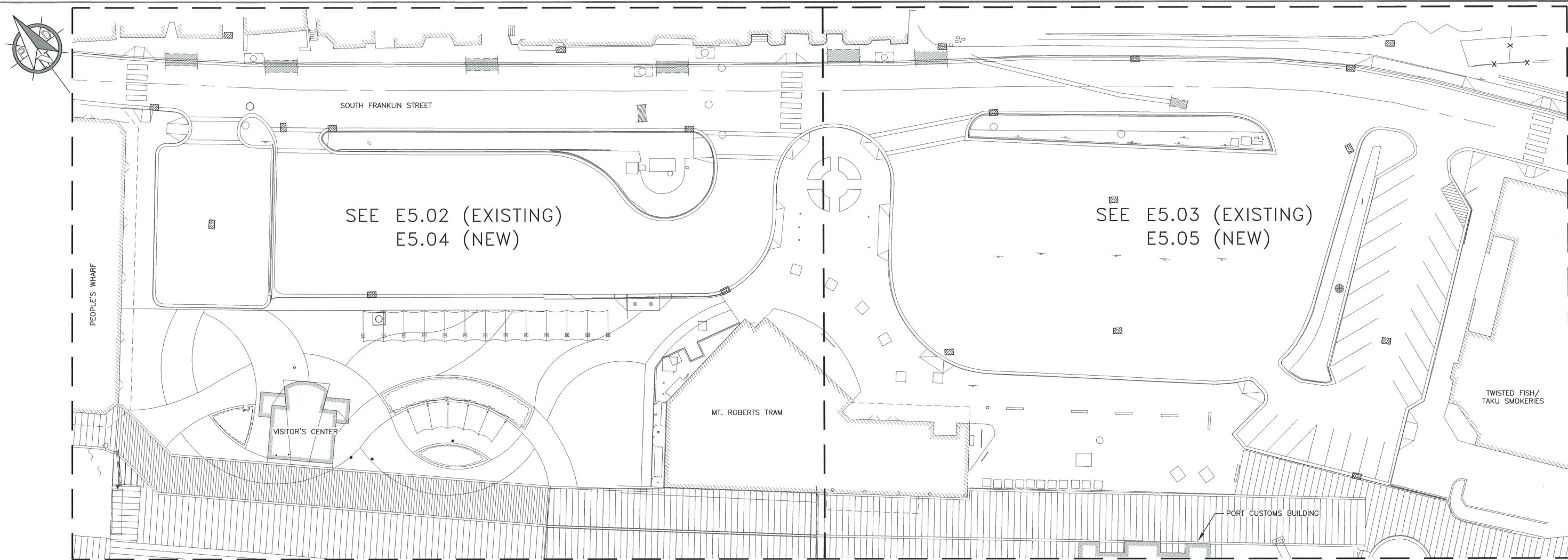
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LANDSCAPE DETAILS

PN&D PROJECT NO.: 102081

DWG. FILE:

L4.06
SHEET
42 OF 52

Jul 08, 2013 - 2:27pm
F:\Projects\137 PNAD 800 Cruise Ship Terminal Upgrades Ph 1\Drawings\Working\E5.01.dwg (E6.01 tab)



1 EXISTING OVERALL SITE PLAN
SCALE: AS NOTED

LEGEND

ABBREVIATIONS:	
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UGE	UNDERGROUND ELECTRIC
XFMR	TRANSFORMER
(E)	EXISTING TO REMAIN
(N)	NEW
(R)	RELOCATE EXISTING
(X)	REMOVE
LIGHTING:	
	EXTERIOR POLE MOUNTED LUMINAIRE
	EXTERIOR WALL MOUNTED LUMINAIRE
(LC)	LIGHTING CONTACTOR
POWER:	
(T)	TRANSFORMER
(J)	JUNCTION BOX
(H)	HANDHOLE
	BREAKER
	CONTACT
	PANEL

LOW VOLTAGE:	
	SECURITY CAMERA
GENERAL:	
	HOME RUN
	CONDUIT: 1/2" UON.
	UNGROUND CONDUCTORS (#12 AWG)
	NEUTRAL: #10 WITH DOT #12 OTHERWISE
	GROUND CONDUCTOR
CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED	



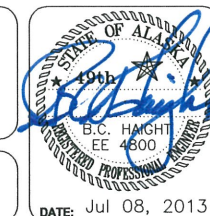
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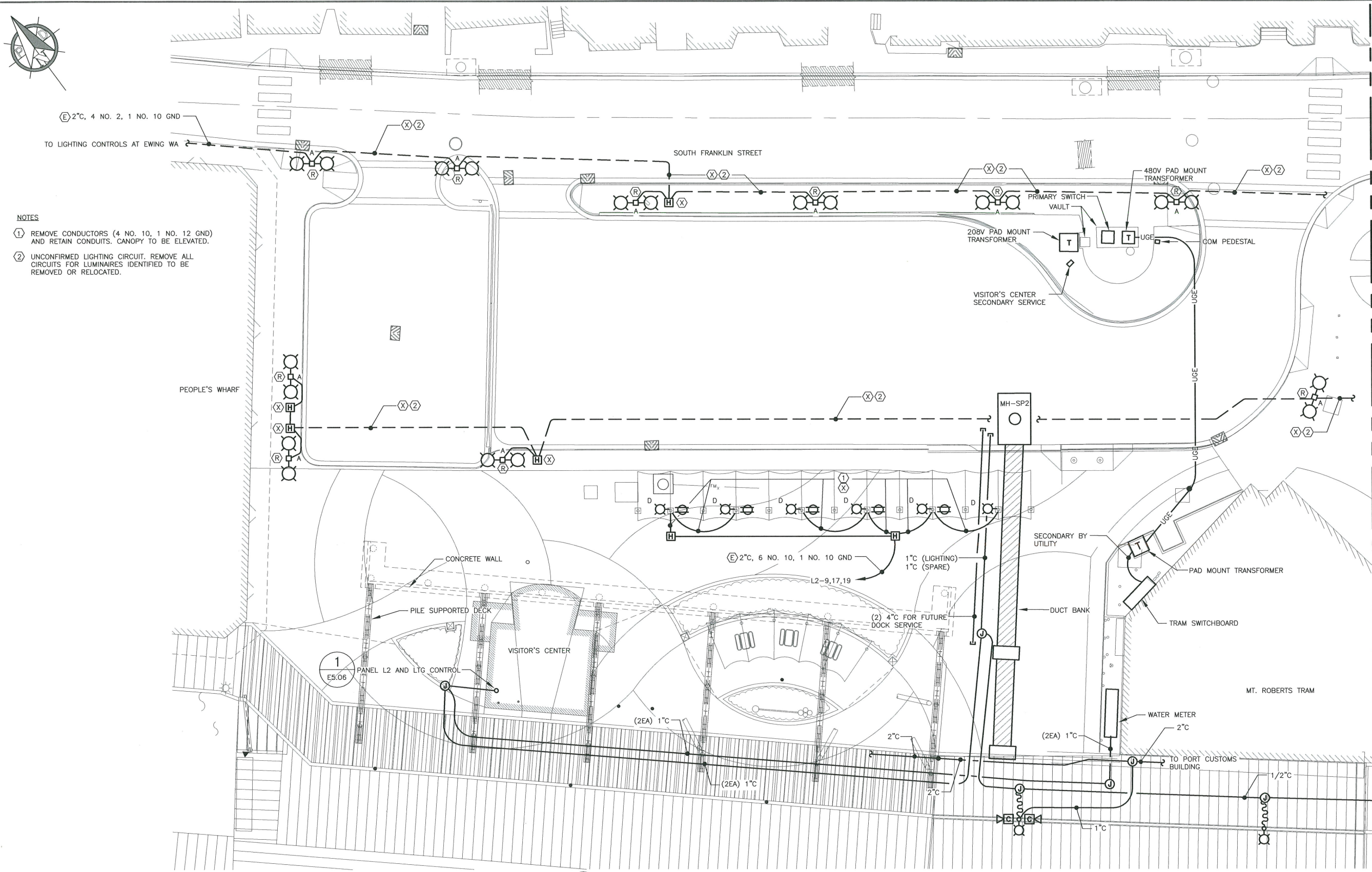
CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS
CONTRACT NO. DH13-017

SHEET TITLE:
EXISTING OVERALL SITE PLAN

PND PROJECT NO.: 102081 DWG. FILE:

E5.01
SHEET
43 OF 52

Jul 08, 2013 - 3:47pm
F:\Projects\137 PR&D 80a Cruise Ship Terminal Upgrades Ph. I\Drawings\Working\E5.02.dwg (E5.02 tab)



1 EXISTING PARTIAL SITE PLAN
SCALE: AS NOTED



HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
525 Main Street, Juneau, AK 99801
(907) 586-9788

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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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DRAWN: KHD
CHECKED: BCH
APPROVED: BCH

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CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS
CONTRACT NO. DH13-017

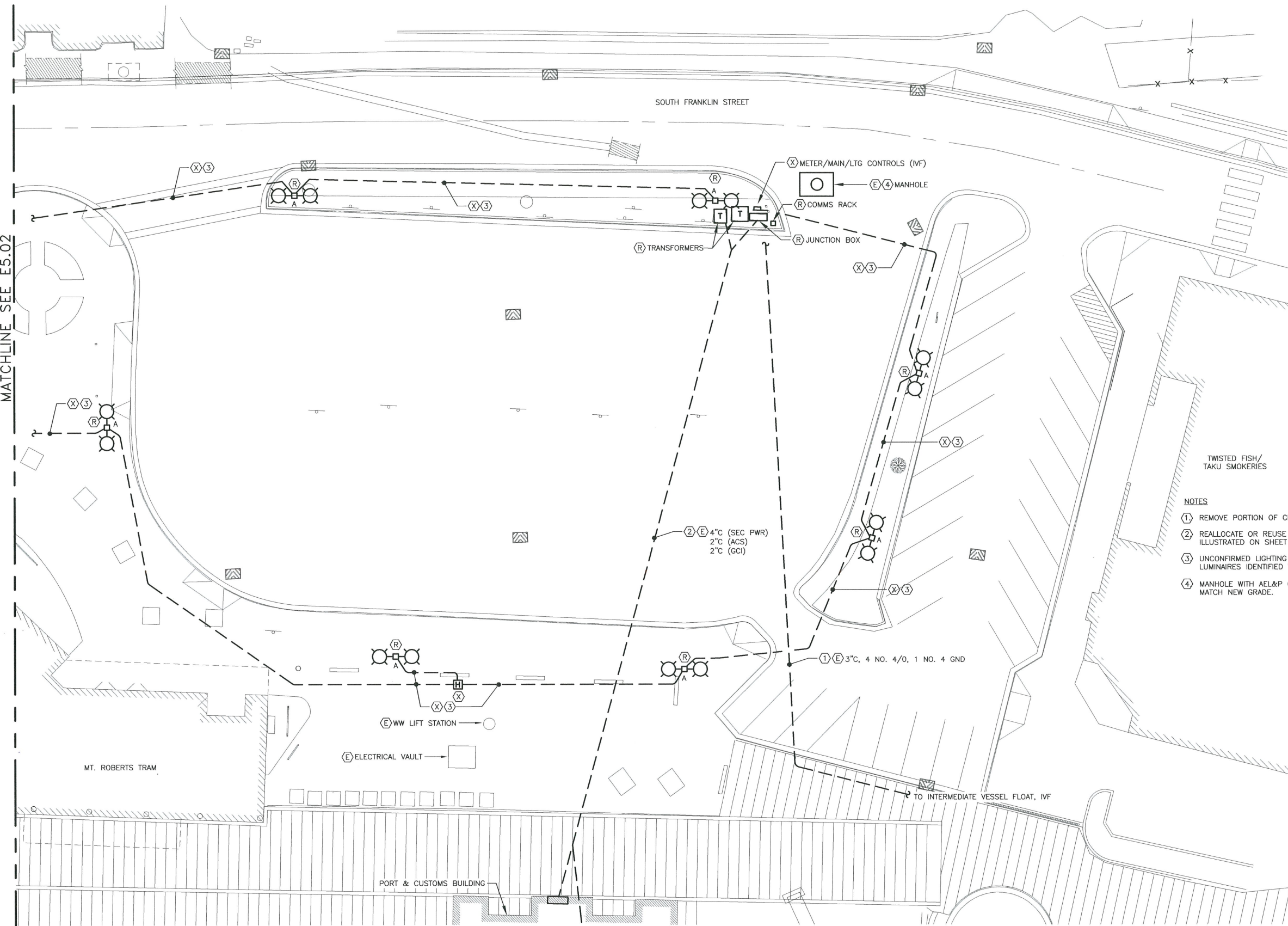
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PND PROJECT NO.: 102081
DWG. FILE:

E5.02
SHEET 44 OF 52

Jul 08, 2013 - 3:47pm
P:\Projects\137 PND\800 Cruise Ship Terminal Upgrade Ph 1\Drawings\Working\E5.03.dwg (E5.03 tab)



MATCHLINE SEE E5.02



TWISTED FISH/
TAKU SMOKERIES

NOTES

- 1 REMOVE PORTION OF CIRCUIT AND REFEED IVF PER SHEET E5.05.
- 2 REALLOCATE OR REUSE CONDUITS TO COMPLETE INSTALLATION ILLUSTRATED ON SHEET E5.05 WHERE POSSIBLE.
- 3 UNCONFIRMED LIGHTING CIRCUIT. REMOVE ALL CIRCUITS FOR LUMINAIRES IDENTIFIED TO BE REMOVED OR RELOCATED.
- 4 MANHOLE WITH AEL&P CABLES: ADJUST ACCESS LID/RISERS TO MATCH NEW GRADE.

1

EXISTING PARTIAL SITE PLAN

SCALE: AS NOTED



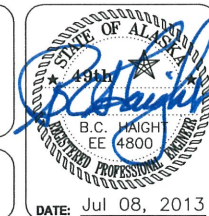
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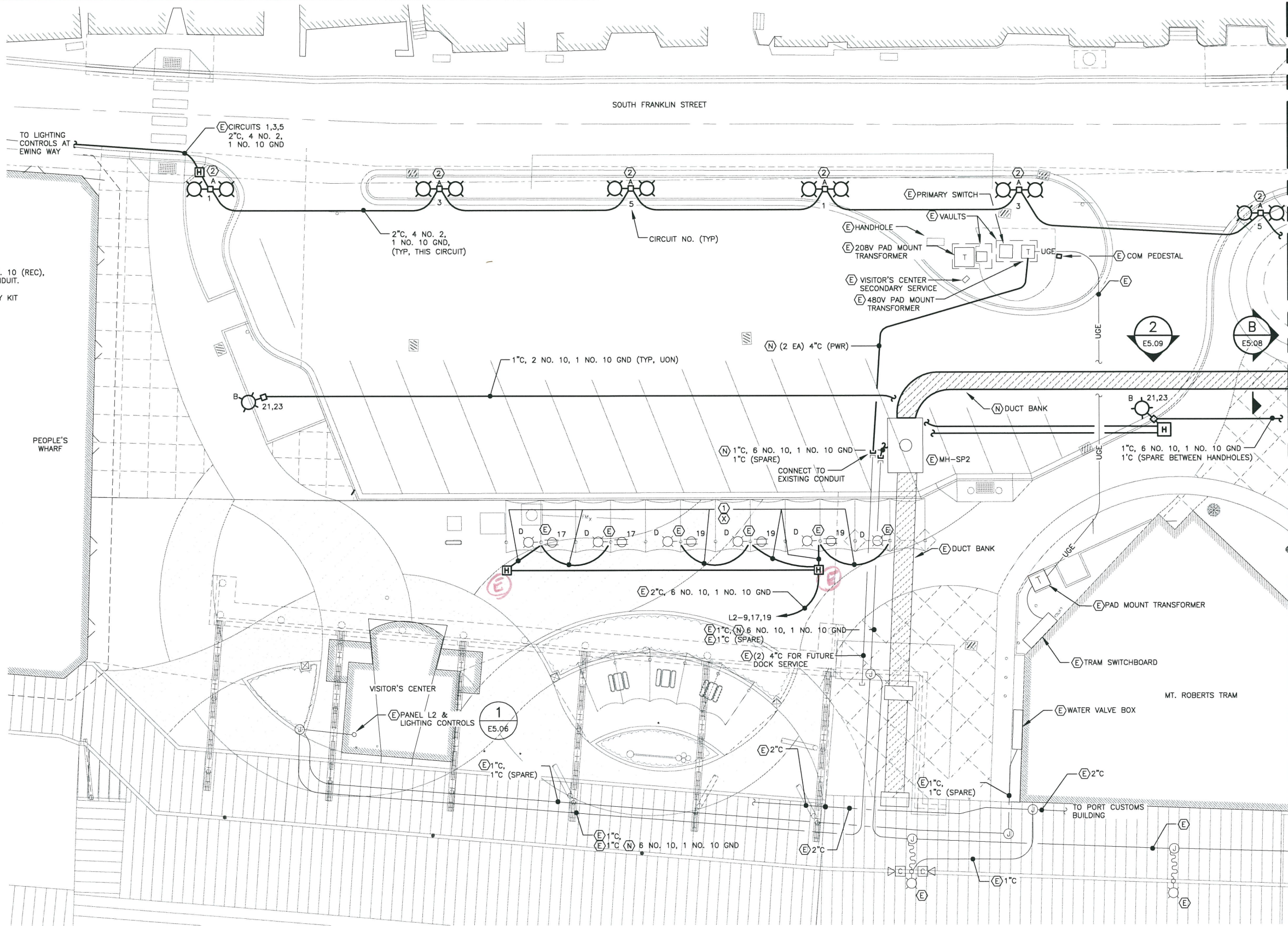


CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS
CONTRACT NO. DH13-017

SHEET TITLE:
EXISTING PARTIAL SITE PLAN

PND PROJECT NO.: 102081 DWG. FILE:

E5.03
SHEET
45 OF 52



1 NEW PARTIAL SITE PLAN

SCALE: AS NOTED

Jul 08, 2013 - 2:28pm
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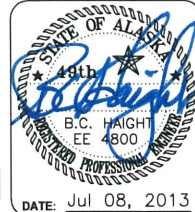
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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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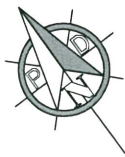
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IMPROVEMENTS
CONTRACT NO. DH13-017

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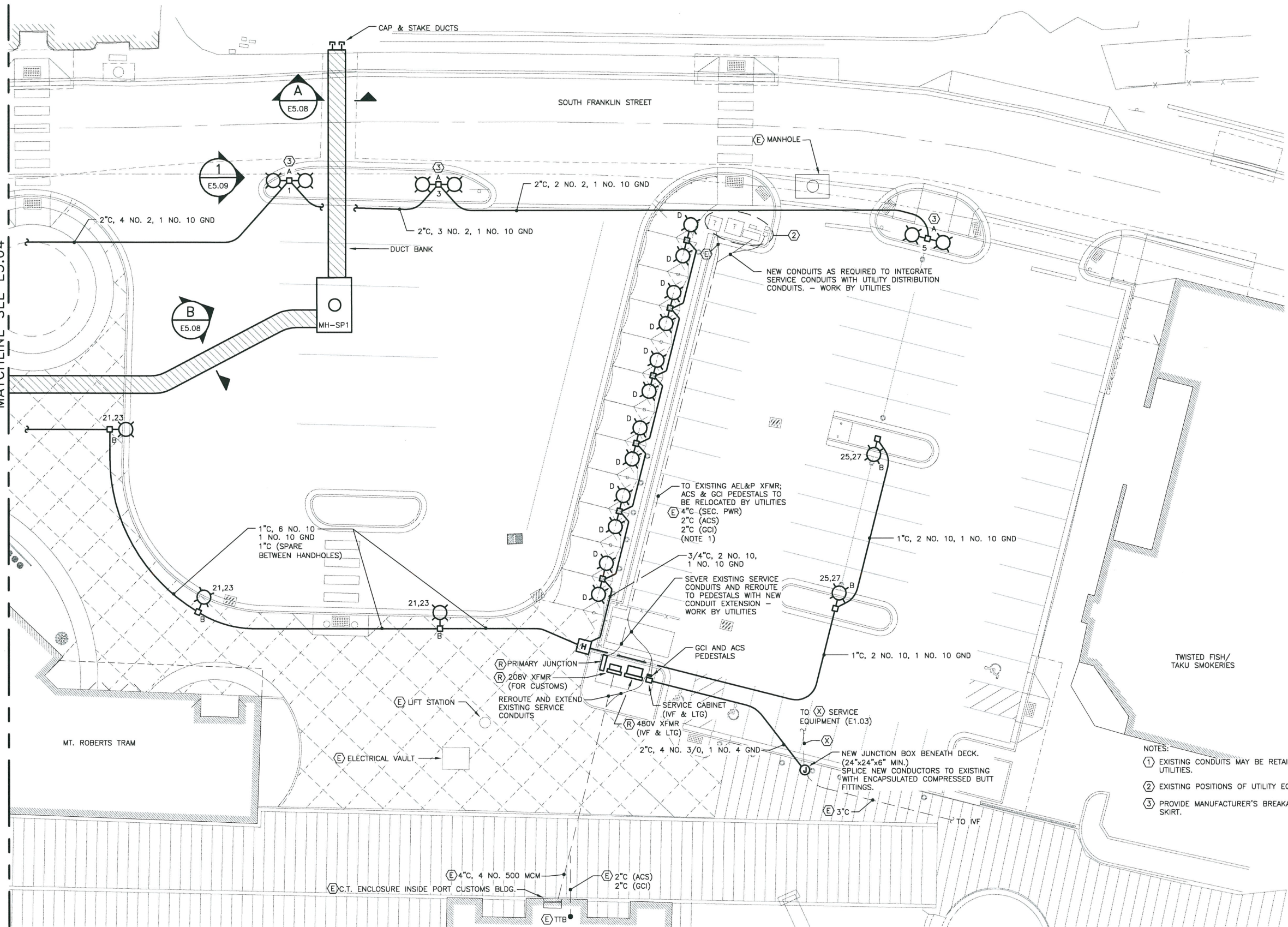
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E5.04
SHEET
46 OF 52

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MATCHLINE SEE E5.04



1 NEW PARTIAL SITE PLAN

SCALE: AS NOTED



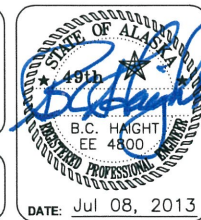
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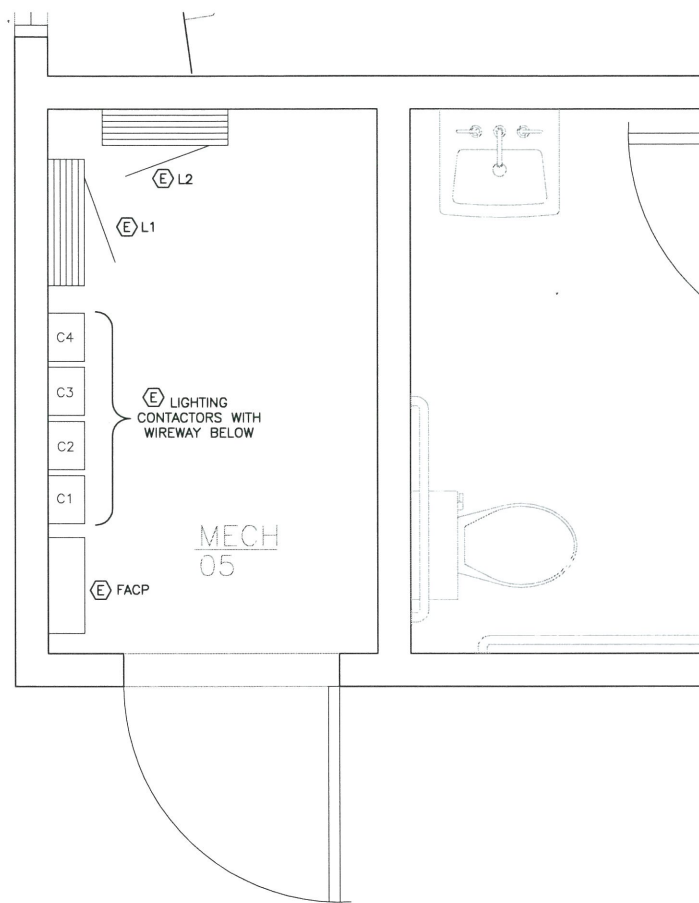


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IMPROVEMENTS
CONTRACT NO. DH13-017

SHEET TITLE:
NEW PARTIAL SITE PLAN

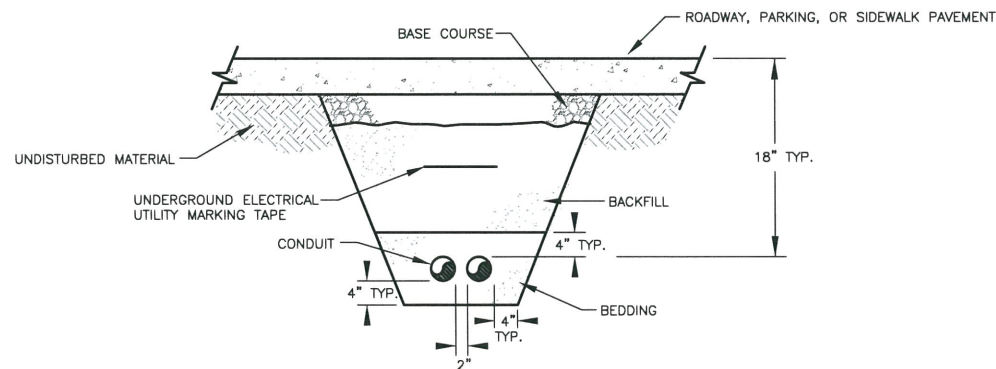
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E5.05
SHEET
47 OF 52

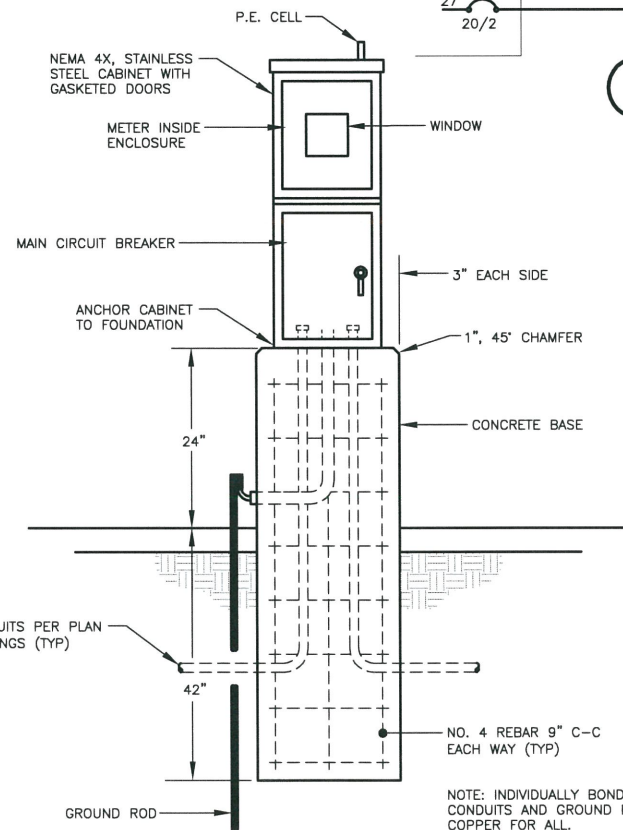


1 ENLARGED PLAN - VISITOR'S CENTER MECHANICAL 05

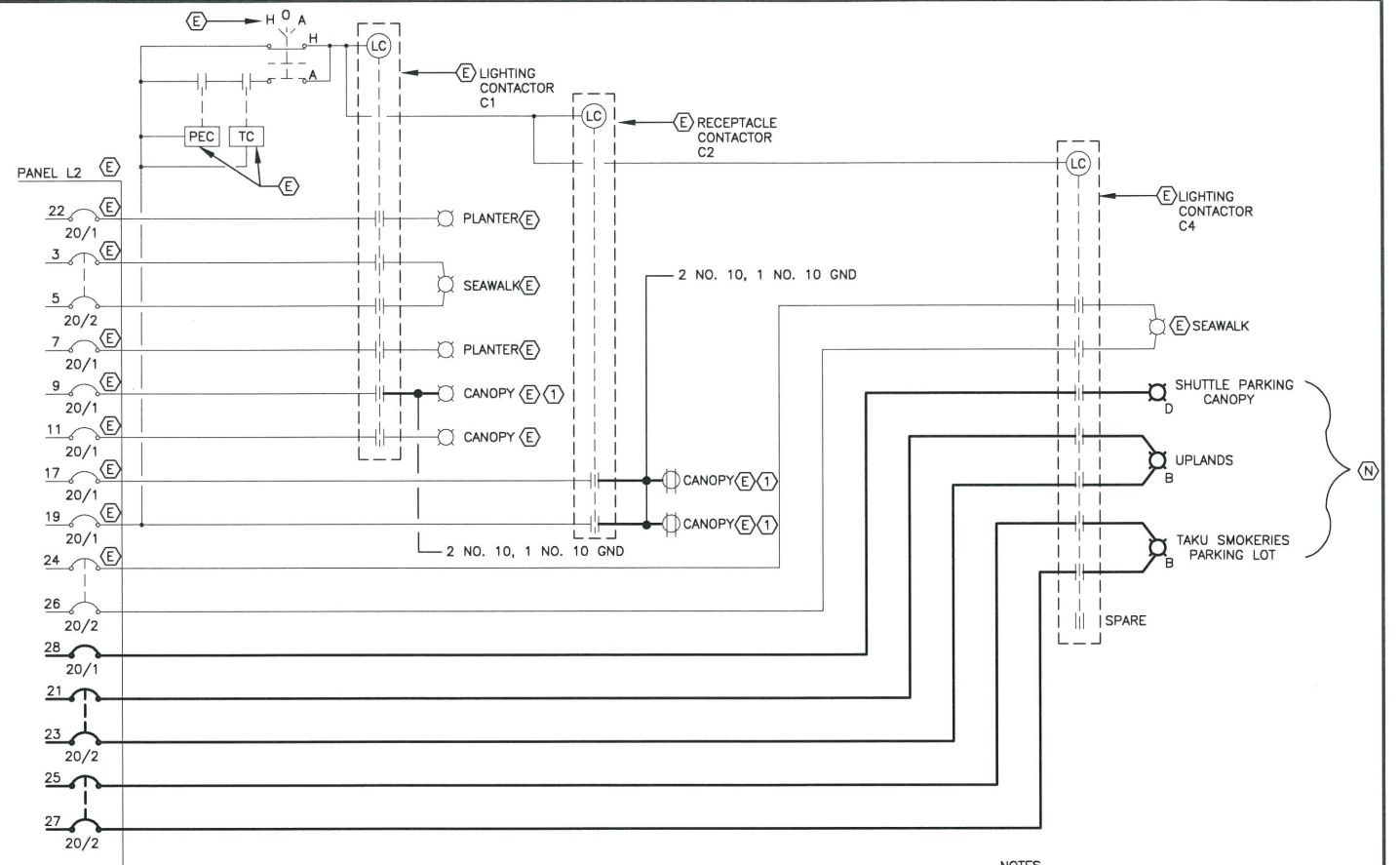
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3 TRENCH - SECONDARY
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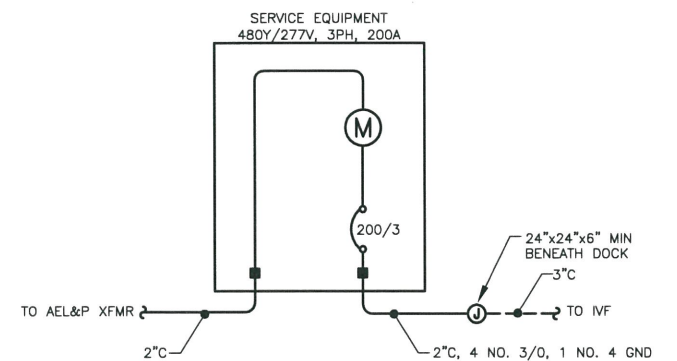


4 DETAIL - IVF SERVICE EQUIPMENT
NO SCALE



2 SCHEMATIC DIAGRAM - EXTERIOR LIGHTING CONTROLS
NO SCALE

NOTES
(1) REPLACE CIRCUITS AS REQUIRED TO ELEVATE THE CANOPY.



5 SINGLE LINE DIAGRAM - IVF SERVICE
NO SCALE



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CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS
CONTRACT NO. DH13-017

SHEET TITLE:

DETAILS

PND PROJECT NO.: 102081

DWG. FILE:

E5.06
SHEET
48 OF 52

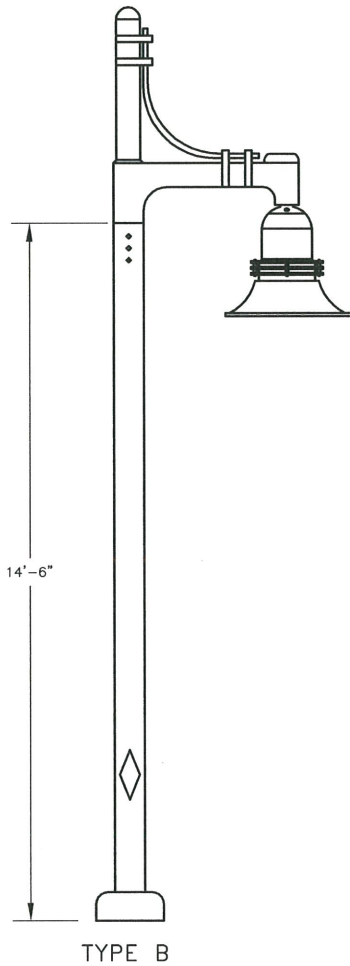
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LUMINAIRE SCHEDULE

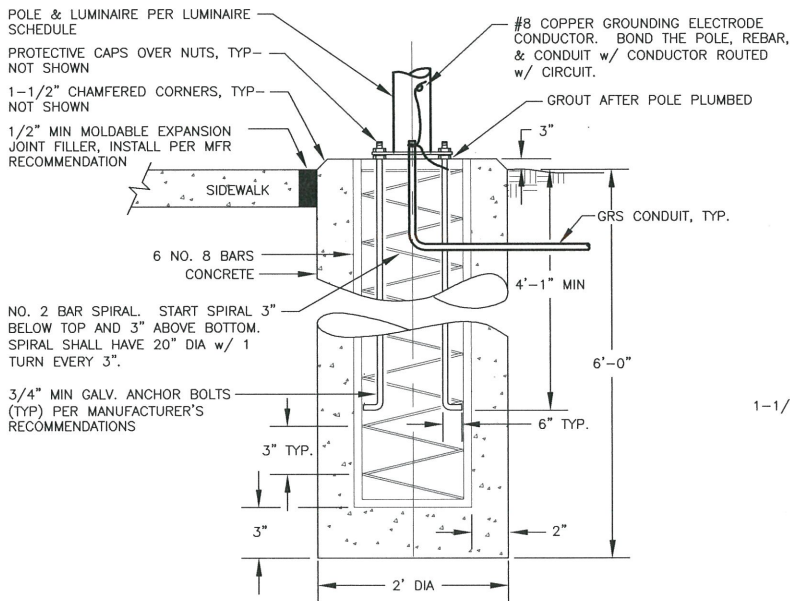
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	EXISTING DECORATIVE AREA LIGHT, WITH STEEL HOUSING, POLYCARBONATE GLOBE, BRASS FILIGREE RING,, TYPE III DISTRIBUTION, STEEL BANNER BRACKET, 9'-6" CAST IRON POLE BASE, WITH 6'-0" STEEL POLE EXTENSION, "JUNEAU BLUE" FINISH.	VISCO VI-B-A2-F/9'-6"	(2) 70W HPS 1900K, CRI 22	SEE NOTES
B	POLE MOUNTED DECORATIVE LED AREA LIGHT, CAST ALUMINUM TOP HOUSING, SOLID RINGS MID SECTION, FLUTE ALUMINUM SHADE, FLAT FROSTED GLASS LENS, TYPE III DISTRIBUTION, ELECTRONIC DRIVER, TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED UPPER BAR, 14.5'x4"DIA ROUND STRAIGHT ALUMINUM POLE WITH POWDER COAT FINISH TO MATCH, BLACK FINISH	INVUE EMM-B02-LED-E1-T3-SR-FL-BK VA6110-BK ARM ARX-ST12-NGN4 POLE	51W LED 4000K, CRI 75	
D	DECORATIVE POST MOUNTED LIGHT, DIRECT/INDIRECT LIGHTING, MACHINED ALUMINUM HOUSING, GASKETED TOP AND BOTTOM LIGHT HOUSINGS, INTEGRAL ELECTRONIC BALLAST, BLACK POWDERCOAT FINISH	ARCHITECTURAL LIGHTING WORKS CAS-MR16-ID-INT-120-BK	37W LED	COORDINATE INSTALLATION REQUIREMENTS WITH CANOPY MANUFACTURER

NOTES

1. REMOVE TYPE A LUMINAIRE AND POLES. SELECT UNITS THAT ARE IN THE BEST CONDITION AND RE-INSTALL IN NEW LOCATIONS INDICATED. DELIVER SPARE UNITS TO OWNER.
2. PROVIDE NEW BREAKAWAY KITS FOR POLE BASES PER LUMINAIRE MANUFACTURER.

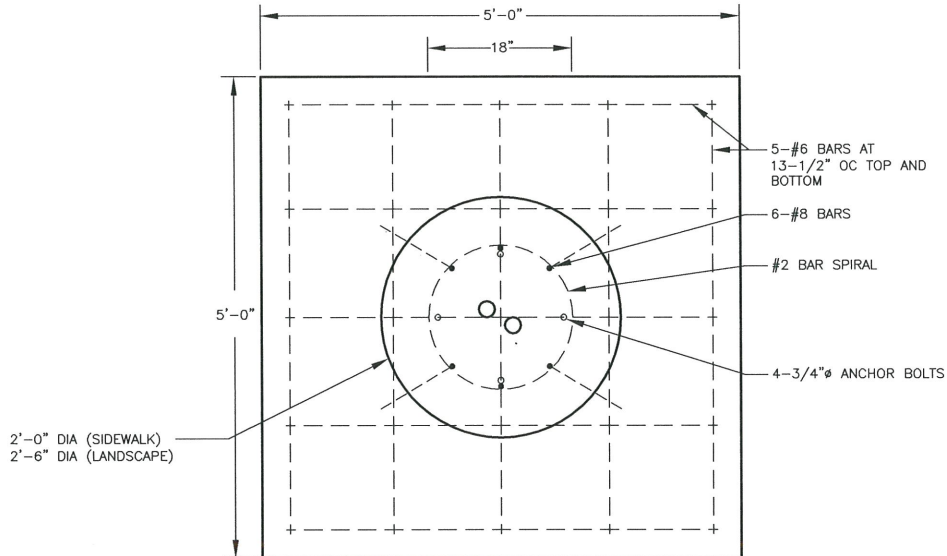


TYPE B

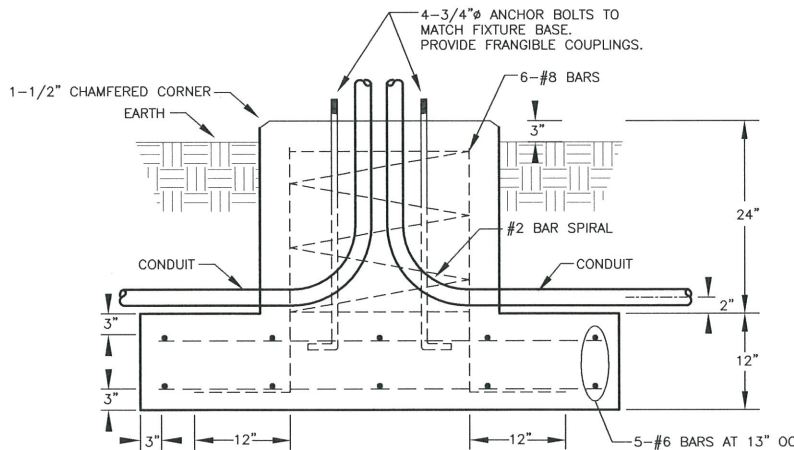


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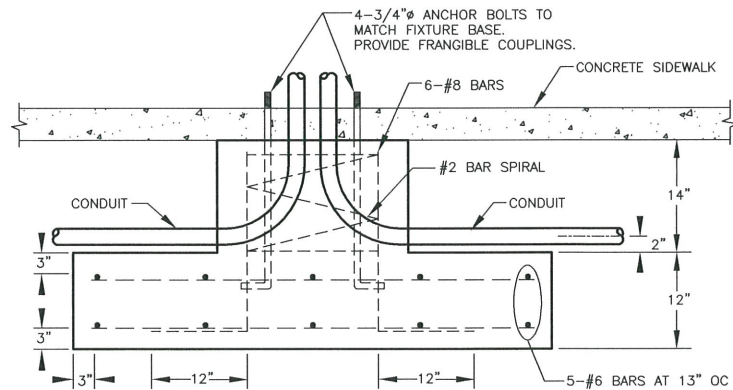
1. BACKFILL w/ N.F.S. SAND & GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. ANCHOR BOLTS TO MEET ATSM-A36 w/ MINIMUM YIELD STRESS OF 36.0 KSI.



PLAN VIEW



LANDSCAPE INSTALLATION



SIDEWALK INSTALLATION

1

DETAIL - TYPE B LUMINAIRES

NO SCALE

2

DETAIL - TYPE B FOUNDATION

NO SCALE

3

DETAIL - TYPE A FOUNDATION

NO SCALE



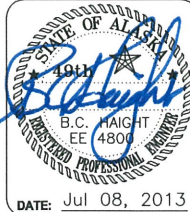
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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DRAWN: KHD
APPROVED: BCH

SCALE:
AS NOTED



DATE: Jul 08, 2013

**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS
CONTRACT NO. DH13-017**

SHEET TITLE:

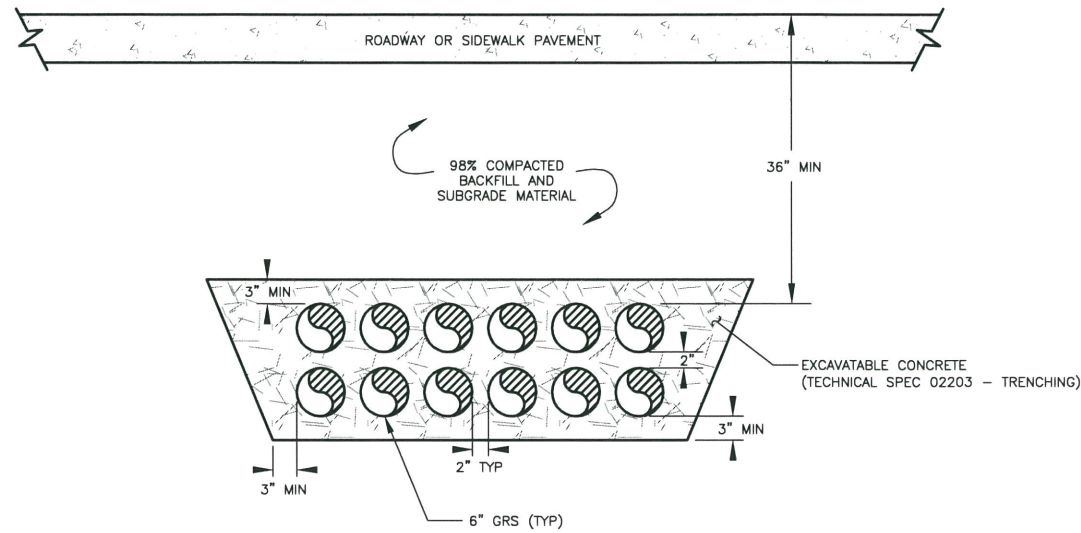
DETAILS

PND PROJECT NO.: 102081

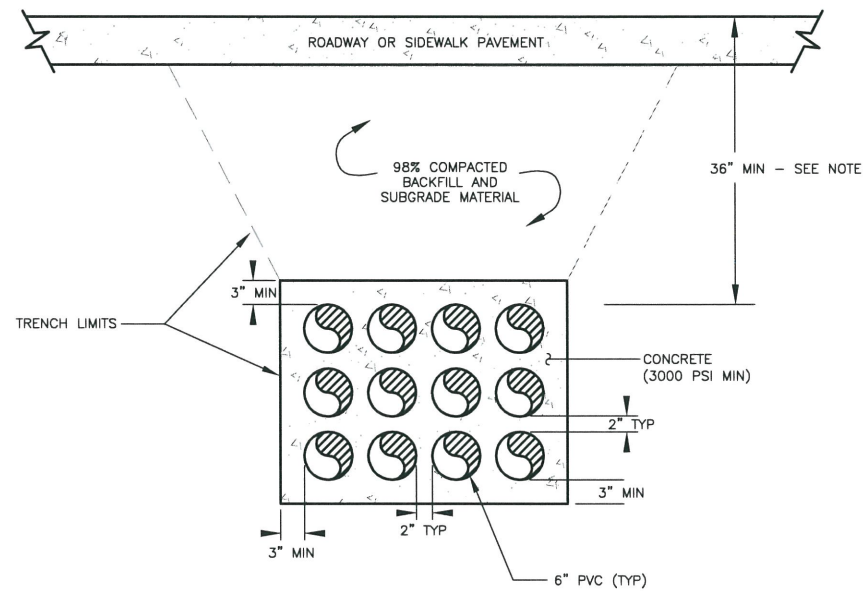
DWG. FILE:

E5.07

SHEET
49 OF 52



A SECTION: DUCTBANK
NO SCALE



B SECTION: CONCRETE 3x4 DUCTBANK
NO SCALE

NOTE: ADJUST PROFILE AS REQUIRED TO AVOID CONFLICTS W/ EXISTING UTILITIES. REVIEW WITH ENGINEER.

Jul 08, 2013 - 2:29pm
F:\Projects\37 PM&D\B00 Cruise Ship Terminal Uplands Ph II\Drawings\Working\E5.08.dwg (Layout1 tab)



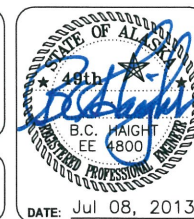
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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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DRAWN: KHD, APPROVED: BCH

SCALE:
AS NOTED

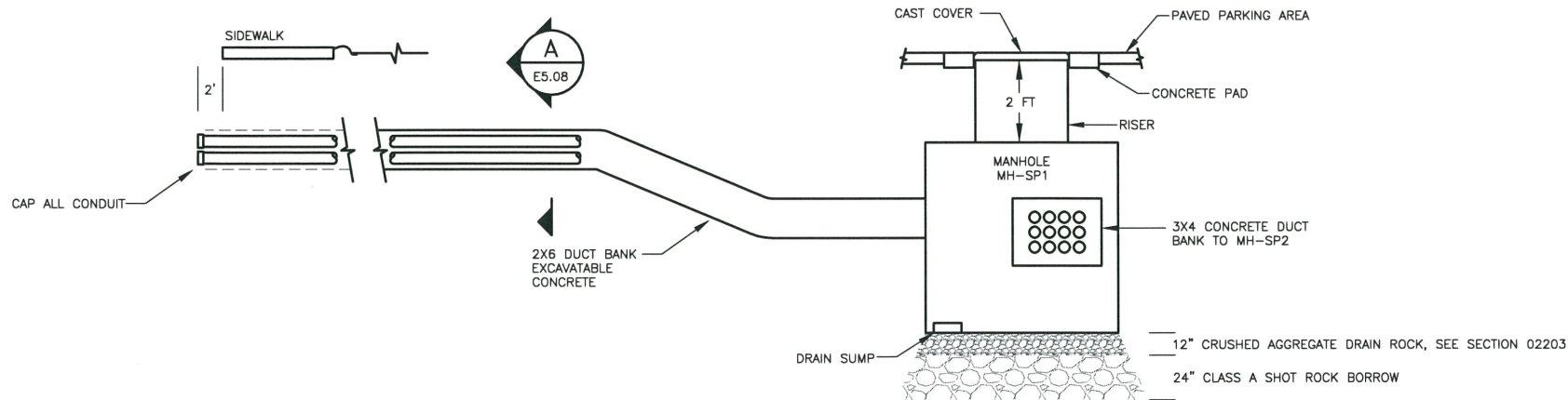


CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS
CONTRACT NO. DH13-017

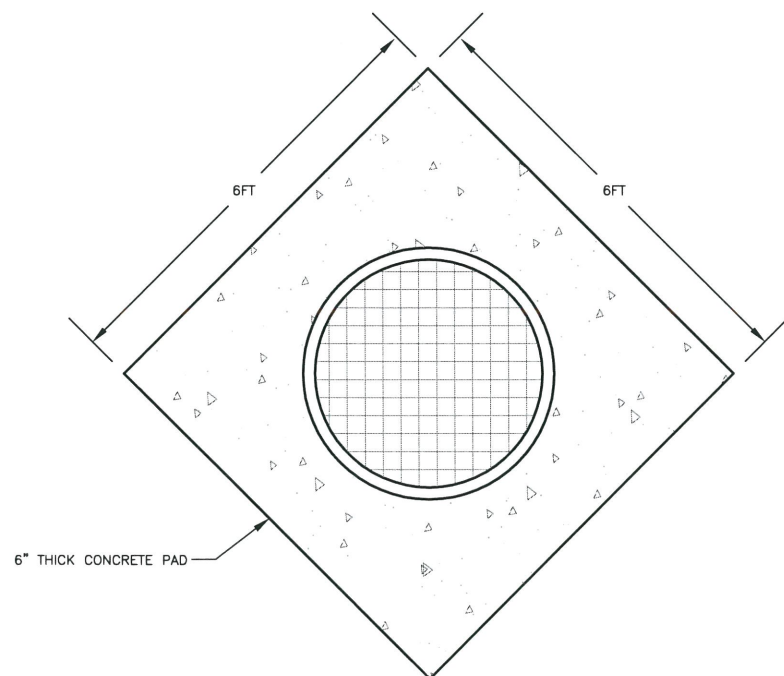
SHEET TITLE:
DUCTBANK DETAILS

PND PROJECT NO.: 102081 DWG. FILE:

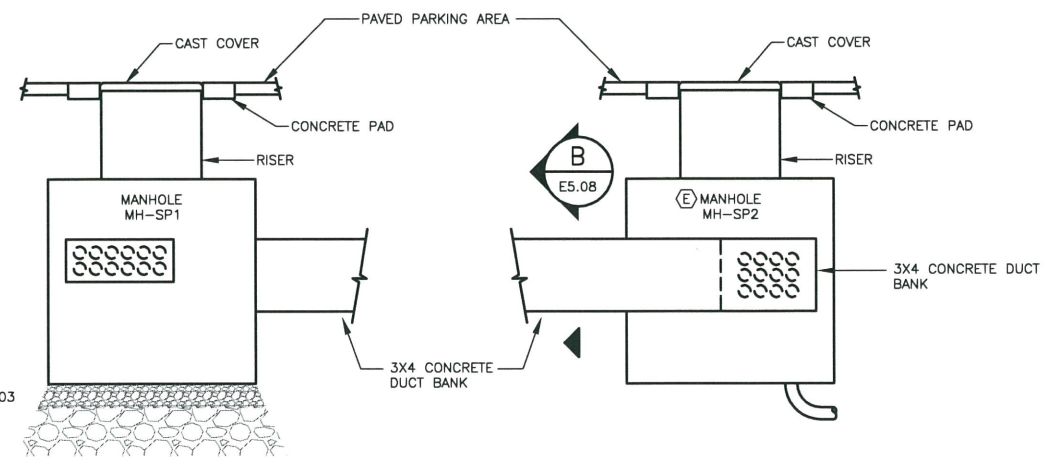
E5.08
SHEET
50 OF 52



1 PROFILE: NORTH SIDE OF SOUTH FRANKLIN ST. TO MANHOLE MH-SP1
NO SCALE



3 DETAIL - MANHOLE COVER PAD
NO SCALE



2 PROFILE: MANHOLE MH-SP1 TO MANHOLE MH-SP2
NO SCALE

NOTES

1. PROVIDE SHORING AS REQUIRED TO STABILIZE EXCAVATIONS AND PROTECT ADJACENT UTILITIES AND OTHER FEATURES DURING MANHOLE AND CONDUIT INSTALLATIONS. REPAIR DAMAGED UTILITIES AT NO COST TO THE OWNER.
2. PROVIDE MINIMUM OF 12" THICK BEDDING, D-1 BASE COURSE, AROUND ALL SIDES AND TOP OF VAULT DURING BACKFILL OPERATIONS. COMPACT TO MIN. 95% RELATIVE STD DENSITY.
3. ADJUST DUCT BANK ELEVATIONS AS REQUIRED TO COORDINATE WITH OTHER UTILITIES. REVIEW WITH THE ENGINEER.

Jul 08, 2013 - 2:29pm
F:\Projects\137 PH&D\00a Cruise Ship Terminal Uplands Ph II\Drawings\Working\E5.09.dwg (Layout1 tab)



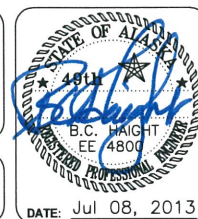
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



9360 Glacier Highway, Ste. 100
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DESIGN: BCH/KHD CHECKED: BCH
DRAWN: KHD APPROVED: BCH

SCALE:
AS NOTED



**CRUISE SHIP TERMINAL STAGING AREA
IMPROVEMENTS
CONTRACT NO. DH13-017**

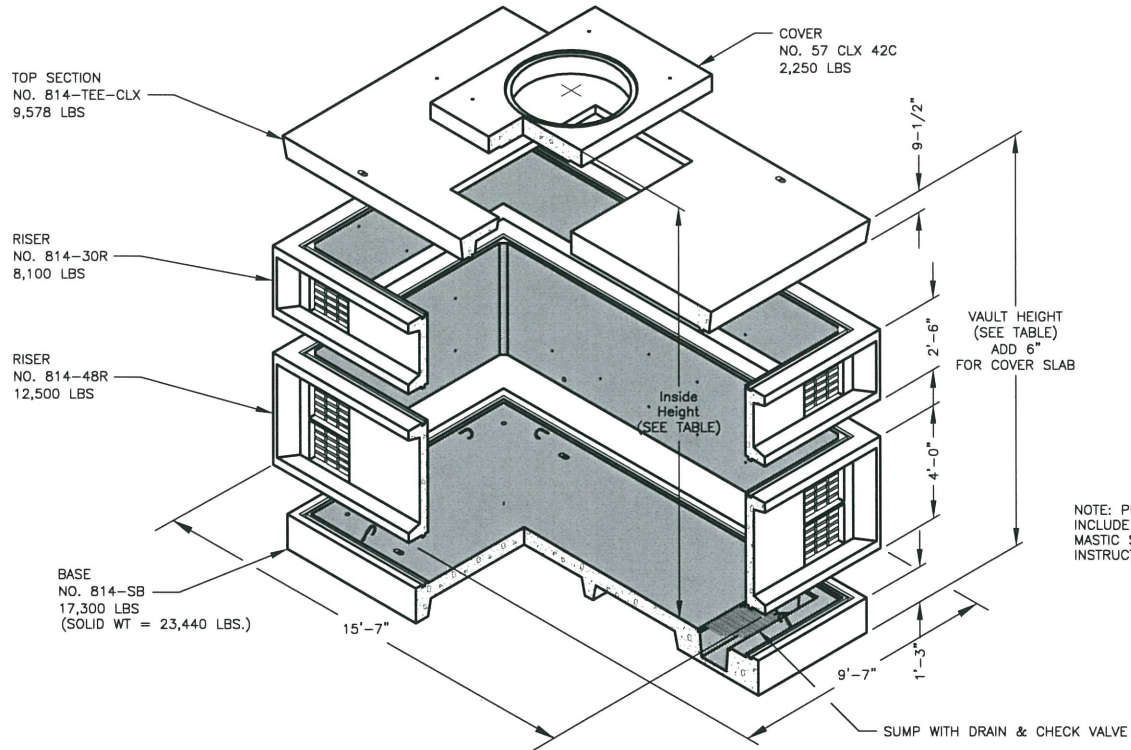
SHEET TITLE:
MANHOLE DETAILS

PND PROJECT NO.: 102081 DWG. FILE:

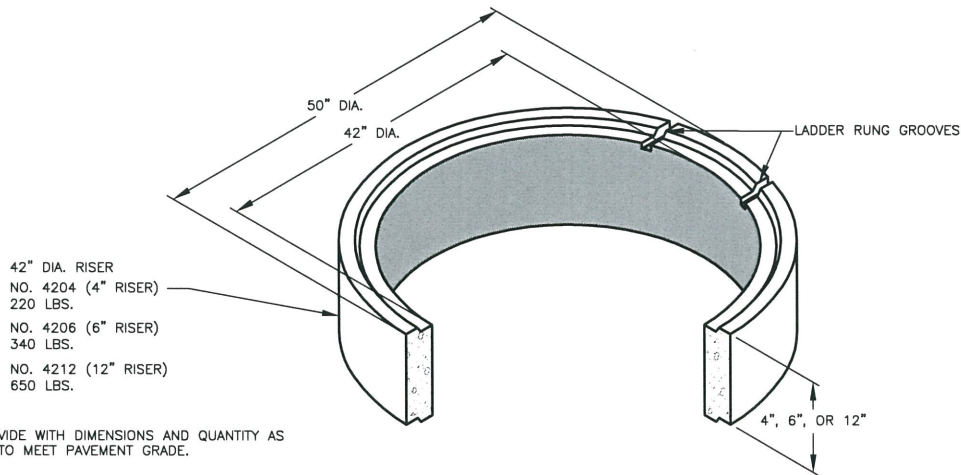
E5.09
SHEET
51 OF 52

VAULT NO.	INSIDE HEIGHT	814-30R RISERS	814-48R RISERS	*OUTSIDE HEIGHT	*VAULT WEIGHT
814-B-LA	8'-0"		2	10'-0 1/2"	51,700 LBS.

* HEIGHT AND WEIGHTS DO NOT INCLUDE 6" 57 CLX COVER SLAB
 ANY COMBINATION OF 30" RISERS OR 48" RISERS
 MAY BE USED TO ACHIEVE DESIRED HEIGHT

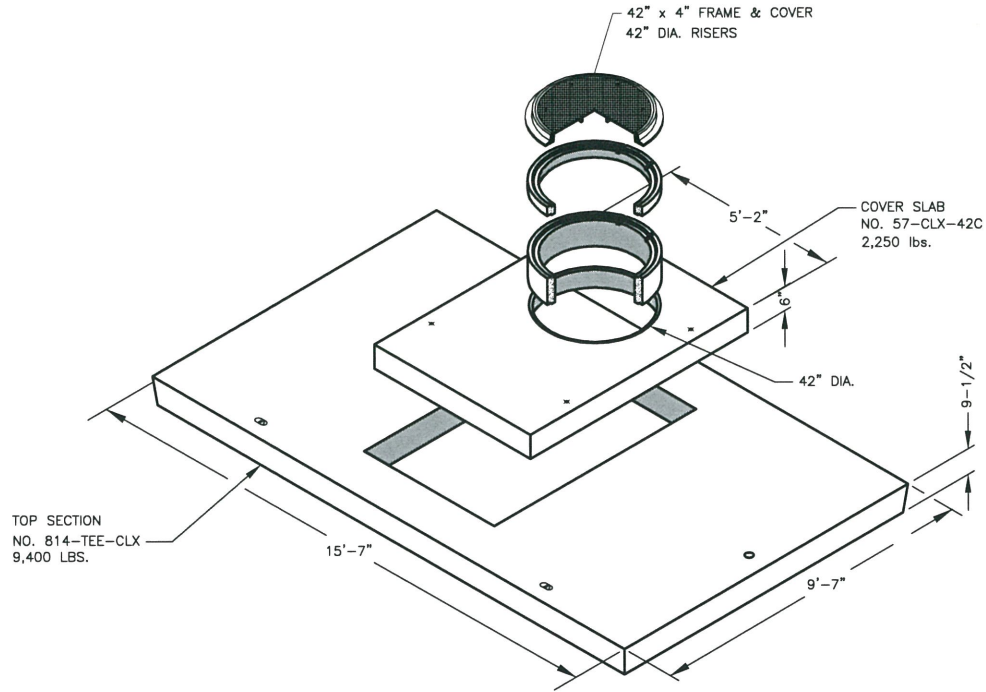


1 MANHOLE MH-SP1 NO SCALE



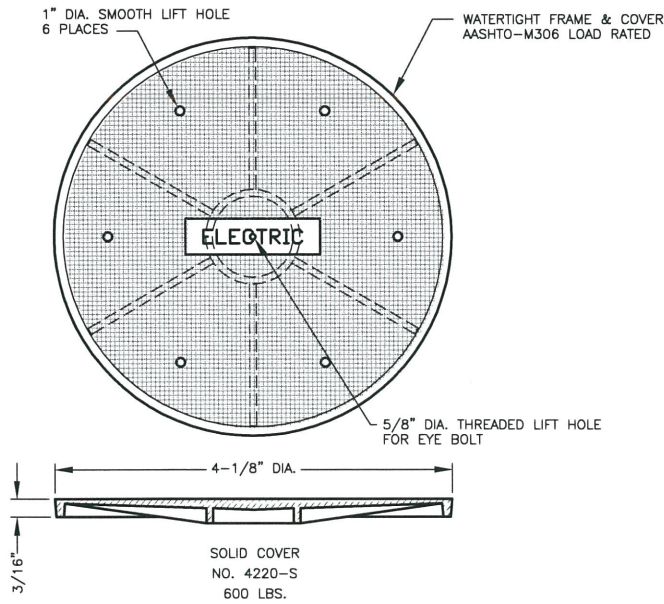
NOTE: PROVIDE WITH DIMENSIONS AND QUANTITY AS REQUIRED TO MEET PAVEMENT GRADE.

4 ROUND RISER FOR MH-SP1 NO SCALE



NOTE: ADJUST RISERS AND COVER TO MEET FINISH GRADES PER CIVIL DRAWINGS.

2 MANHOLE MH-SP1 COVER NO SCALE



3 SOLID COVER FOR MH-SP1 NO SCALE

Jul 08, 2013 - 2:29pm
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REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

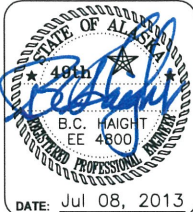
ENGINEERS, INC.

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DESIGN: BCH/KHD
 DRAWN: KHD

CHECKED: BCH
 APPROVED: BCH

SCALE:
AS NOTED



CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS
 CONTRACT NO. DH13-017

SHEET TITLE:
MANHOLE DETAILS

PND PROJECT NO.: 102081 DWG. FILE:

E5.10
 SHEET 52 OF 52