

# STRUCTURAL GENERAL NOTES

(THESE NOTES SUPPLEMENT THE TECHNICAL SPECIFICATIONS)

## DESIGN PARAMETERS

DOCK LIVE LOAD: ASSHTO H20 TRUCK (2 MONTH DURATION, Cd= 1.15)  
 250 PSF UNIFORM LOAD  
 50,000 lb. FORK LIFT AXLE LOAD (2 MONTH DURATION, Cd= 1.15)  
 VEHICLE ACCESS CORRIDOR: 200,000 lb. TRUCK CRANE (7 DAY DURATION, Cd= 1.25), OUT RIGGER LOAD WHILE IN OPERATION MUST BE SPREAD OVER A MIN OF 5 STRINGERS AND THE LIFTING PLAN SHALL BE APPROVED BY A REGISTERED P.E. IN THE STATE OF ALASKA.

## MATERIALS AND CONSTRUCTION

**CONCRETE**  
 CONCRETE SHALL BE A DENSE, WORKABLE MIX THAT WHEN PLACED IS FREE OF EXCESS SURFACE WATER. CONCRETE SHALL HAVE A 28-DAY STRENGTH (fc') OF 4000 PSI AND BE ENTRAINED WITH AIR. SEAL EXTERIOR COLORED CONCRETE SLABS WITH EUCLID CHEMICAL COMPANY LUSTERSEAL 300. SEAL EXTERIOR NON-COLORED CONCRETE SLABS WITH ASHFORD FORMULA. APPLY SEALER PER MANUFACTURER'S RECOMMENDATION. SEE SPECS FOR FIBER REINFORCEMENT AND SEALER.

CONCRETE REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60. FABRICATE AND PLACE STEEL REINFORCEMENT IN ACCORDANCE WITH CRSI'S "MANUAL OF STANDARD PRACTICE". REINFORCING SHALL BE SUPPORTED ON WELL-CURED BLOCKS OR APPROVED METAL ACCESSORIES. WELDING OF REINFORCING IS PROHIBITED. SUBMIT FABRICATION SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING FABRICATION.

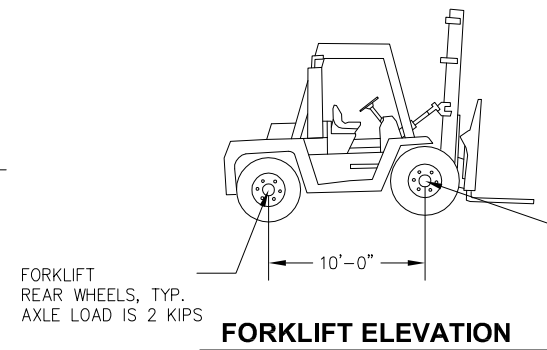
PROVIDE MINIMUM COVER AT REINFORCING BARS AS FOLLOWS: CAST AGAINST EARTH - 3", EXPOSED TO EARTH OR WEATHER - 2", SLABS ON GRADE - 1.5".

ALL ANCHOR BOLTS SHALL BE CAST IN PLACE. DO NOT POST INSTALL. AT WALL AND FOOTING CORNERS PROVIDE EITHER CORNER BARS, WITH THE SAME SIZE AND SPACING AS THE HORIZONTAL WALL OR FOOTING STEEL, WITH A 50 DIAMETER LAP IN THE OUTSIDE FACE OF THE WALL OR FOOTING, OR EXTEND HORIZONTAL STEEL WITH 90 DEGREE HOOK AND 50 BAR DIAMETER LAP SPLICE.

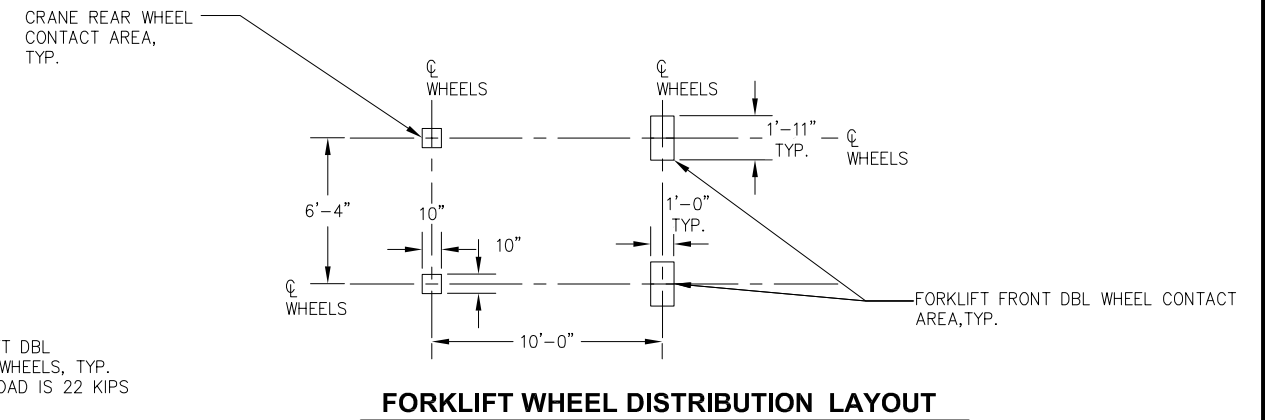
ALL CONCRETE WALL AND FOOTING REINFORCING SHALL BE GALVANIZED, SEE SPECS FOR DETAILS

## ABBREVIATIONS

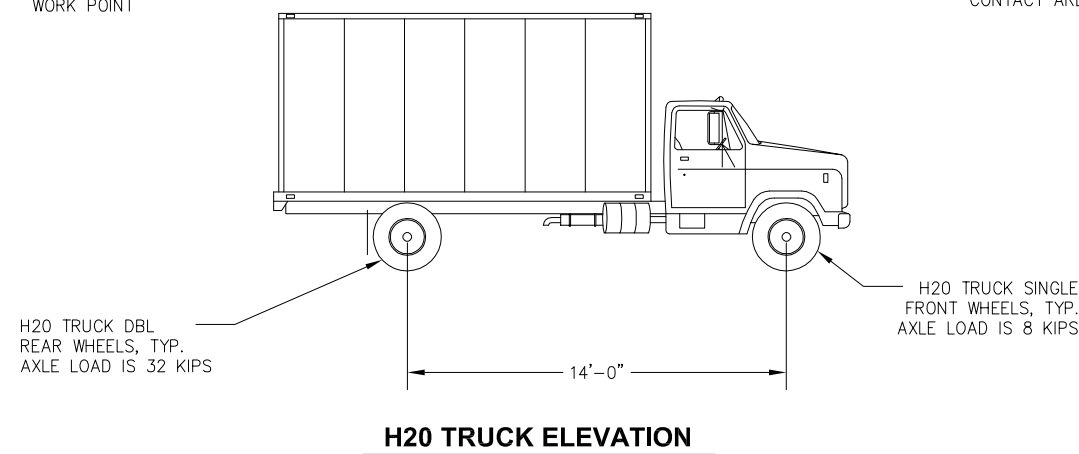
Ø	DIAMETER	EA.	EACH	REG.	REGULATION
@	AT	E.W.	EACH WAY	REQ'D	REQUIRED
ADA	AMERICANS WITH DISABILITIES ACT	FLGS	FLANGES	SIM	SIMILAR
APPROX	APPROXIMATELY	FTG	FOOTING	STD	STANDARD
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	GALV	GALVANIZED	TRTD	TREATED
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	TYP.	TYPICAL	UNO	UNLESS NOTED OTHERWISE
BTM	BOTTOM	HORZ.	HORIZONTAL	VERT.	VERTICAL
CJ	CONSTRUCTION JOINT	HDPE	HIGH-DENSITY POLYETHYLENE	W/	WITH
CL	CENTERLINE	MI	MALLEABLE IRON	WP	WORK POINT
CON	CONNECTION	MIN	MINIMUM		
CONC.	CONCRETE	MLLW	MEAN LOW WATER		
CP	COMPLETE PENETRATION	NO.	NUMBER		
CRNRS	CORNERS	O.C.	ON CENTER		
DBL	DOUBLE	OPP.	OPPOSITE		
E	EXISTING	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
		PL	PLATE		



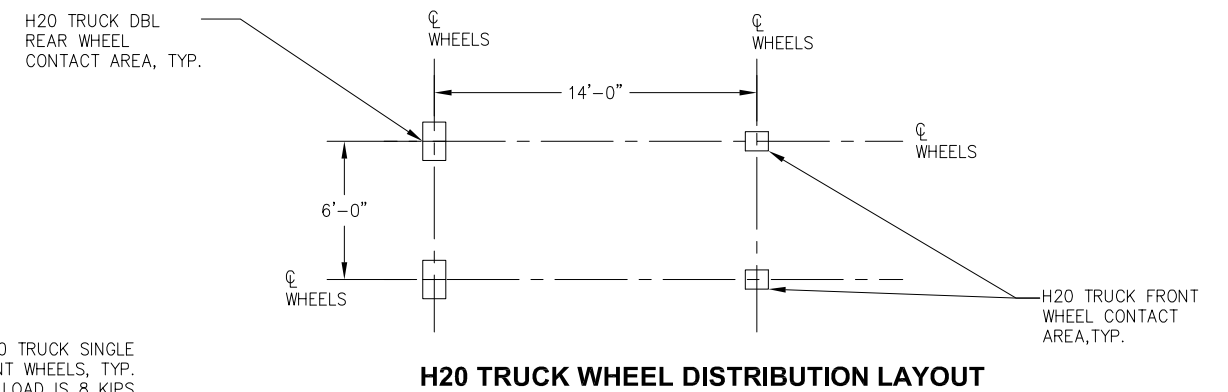
**FORKLIFT ELEVATION**



**FORKLIFT WHEEL DISTRIBUTION LAYOUT**

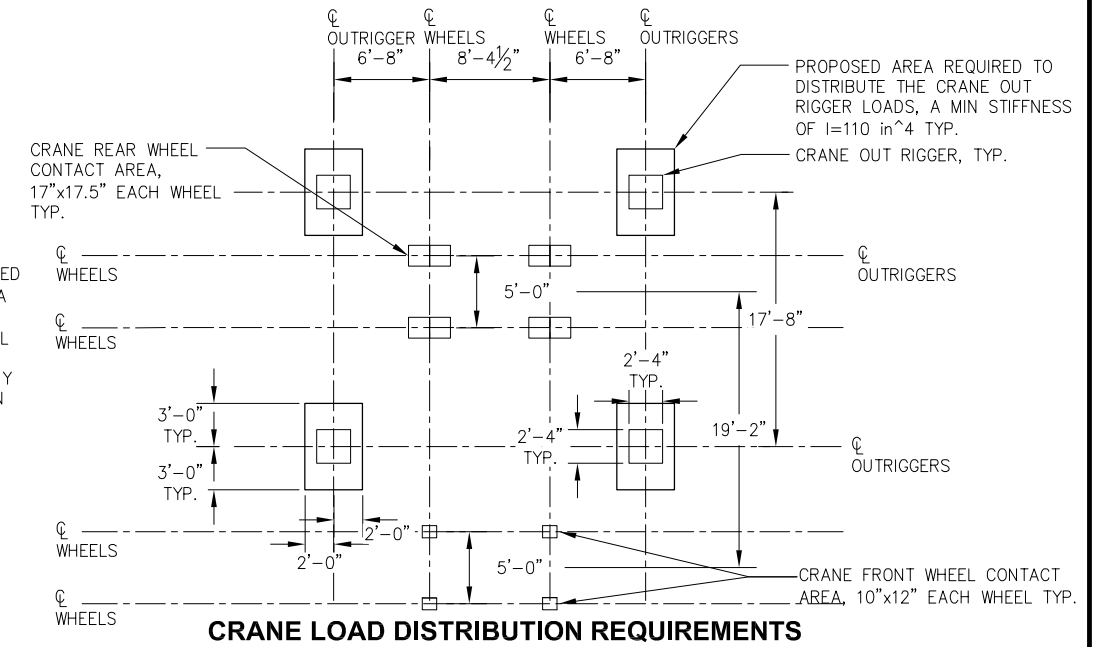


**H20 TRUCK ELEVATION**



**H20 TRUCK WHEEL DISTRIBUTION LAYOUT**

NOTE: CRANE LOADING IS BASED ON 100' OF BOOM ON A P&H/9125 TC TRUCK CRANE. A REVIEW SHALL BE COMPLETED BY A REGISTERED PE FOR ANY CHANGE TO THE DESIGN TRUCK CRANE



**CRANE LOAD DISTRIBUTION REQUIREMENTS**



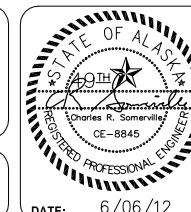
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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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 DRAWN: KLL APPROVED: CRS

SCALE: SCALE IN FEET  
 0 10 20 FT.



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

SHEET TITLE: **SOUTH FERRY DOCK STRUCTURAL NOTES**

PND PROJECT NO.: 102081 DWG. FILE: 3.01.dwg

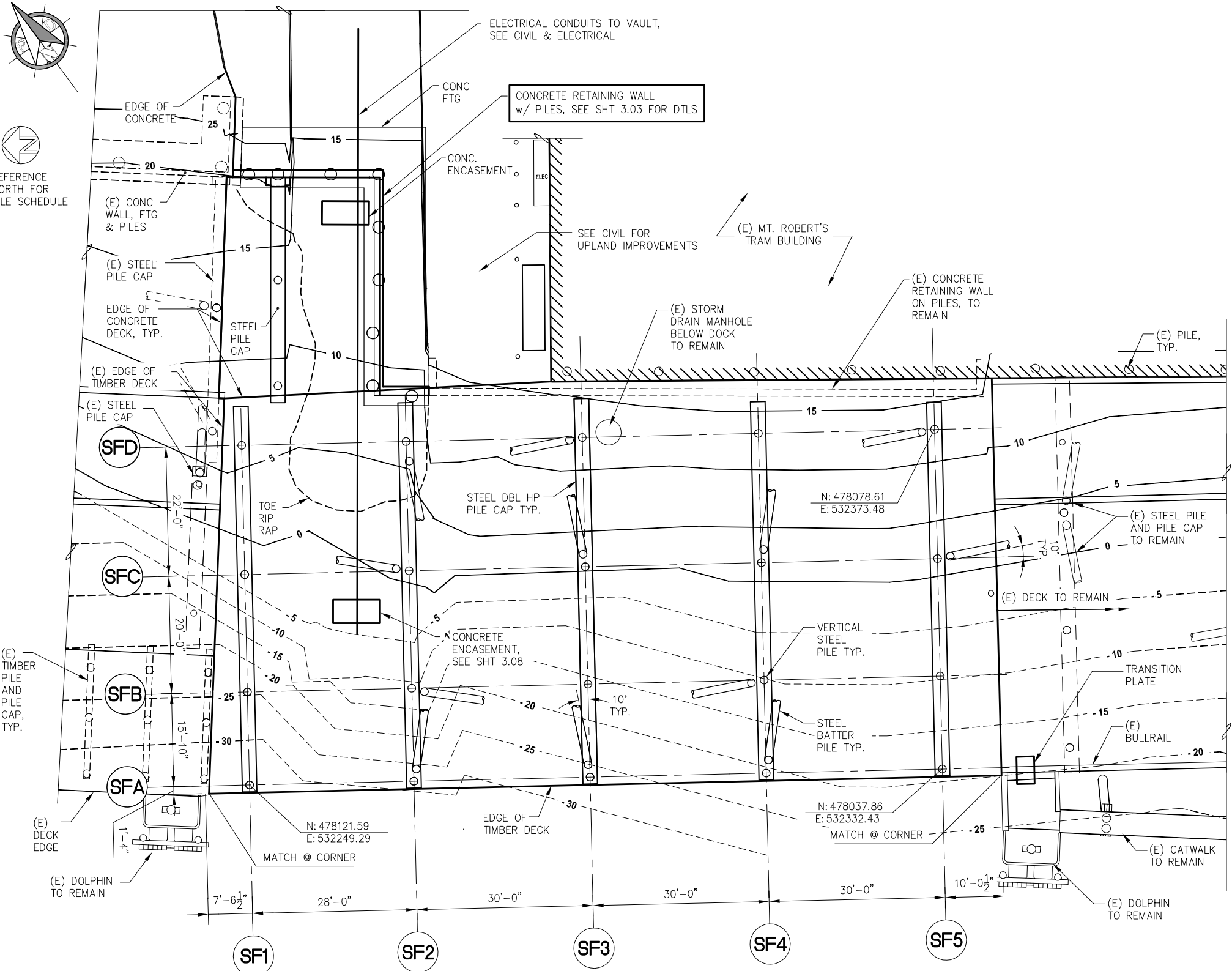
**3.01**

SHEET 19 OF 38

DATE: 6/06/12



REFERENCE NORTH FOR PILE SCHEDULE



**SOUTH FERRY DOCK FOUNDATION PLAN**

NOTE: ORIGINAL GRADE CONTOUR INTERVALS SHOWN.

PILE SCHEDULE						
PILE GRID	ORIENTATION	ULTIMATE REQUIRED CAPACITY (KIP=1000 POUNDS)		PILE SIZE		FURNISHED LENGTH
		COMPRESSION (KIPS)	TENSION (KIPS)	DIAMETER (IN)	WALL THICKNESS (IN)	
SFA-SF1	VERT	130	-	16.000	0.500	90
SFA-SF2	VERT	150	40	16.000	0.500	90
	EAST BATTER	60	60	16.000	0.500	90
SFA-SF3	VERT	170	20	16.000	0.500	100
	EAST BATTER	35	35	16.000	0.500	90
SFA-SF4	VERT	170	45	16.000	0.500	90
	EAST BATTER	70	70	16.000	0.500	90
SFA-SF5	VERT	140	-	16.000	0.500	90
SFB-SF1	VERT	260	-	16.000	0.500	90
SFB-SF2	VERT	300	45	16.000	0.500	90
	SOUTH BATTER	80	80	16.000	0.500	100
SFB-SF3	VERT	330	-	16.000	0.500	80
SFB-SF4	VERT	330	45	16.000	0.500	80
	NORTH BATTER	80	80	16.000	0.500	100
SFB-SF5	VERT	300	-	16.000	0.500	80
SFC-SF1	VERT	290	-	16.000	0.500	80
SFC-SF2	VERT	330	10	16.000	0.500	80
	NORTH BATTER	50	50	16.000	0.500	90
SFC-SF3	VERT	360	-	16.000	0.500	70
	EAST BATTER	35	35	16.000	0.500	80
SFC-SF4	VERT	360	10	16.000	0.500	70
	EAST BATTER	70	70	16.000	0.500	80
SFC-SF5	VERT	300	-	16.000	0.500	70
	SOUTH BATTER	50	50	16.000	0.500	80
SFD-SF1	VERT	270	-	16.000	0.500	70
SFD-SF2	VERT	300	25	16.000	0.500	70
	WEST BATTER	60	60	16.000	0.500	90
SFD-SF3	VERT	330	10	16.000	0.500	60
	NORTH BATTER	50	50	16.000	0.500	80
SFD-SF4	VERT	330	30	16.000	0.500	60
SFD-SF5	VERT	280	15	16.000	0.500	60
	NORTH BATTER	40	40	16.000	0.500	80
SFD.5-SF9.5	VERT	490	-	24.000	0.500	60
SFE-SF7	VERT	260	-	16.000	0.500	70
SFE-SF8.5	VERT	490	-	24.000	0.500	60
SFF-S8.5	VERT	490	-	24.000	0.500	60
SFG-S9	VERT	490	-	24.000	0.500	60
SFG-SF7	VERT	260	-	16.000	0.500	60
SFH-SF9	VERT	490	-	24.000	0.500	50
SFI-SF6	VERT	490	-	24.000	0.500	50
SFI-SF7	VERT	490	-	24.000	0.500	50
SFI-SF8	VERT	490	-	24.000	0.500	50
SFI-SF9	VERT	490	-	24.000	0.500	50

PILE NOTE: ALL PILES SHALL HAVE VERSA STEEL INSIDE OR OUTSIDE FLANGE CUTTING SHOE WELDED w/ 3/16" FILLET ALL AROUND OR APPROVED EQUAL.

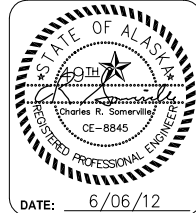


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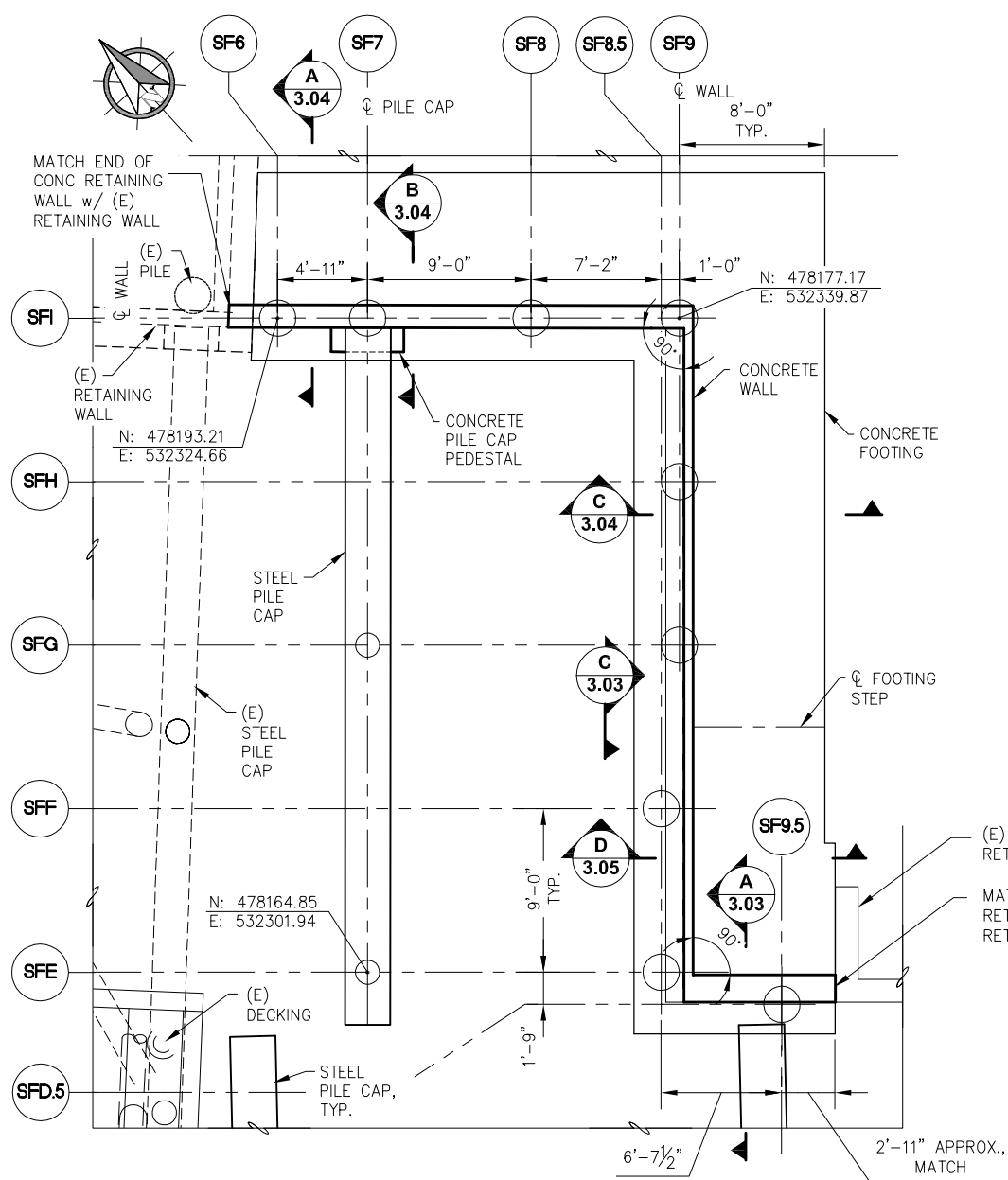
**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

SHEET TITLE: **SOUTH FERRY DOCK FOUNDATION PLAN**

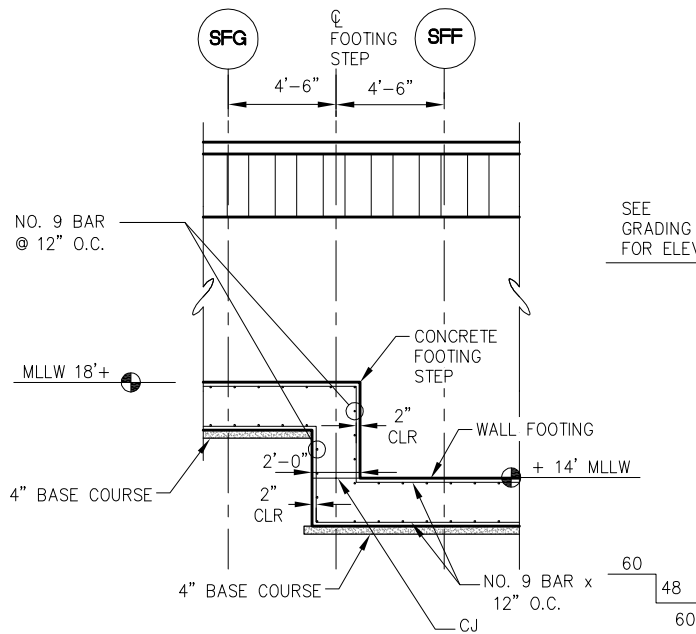
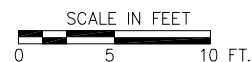
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DATE: 6/06/12

**3.02**  
SHEET 20 OF 38

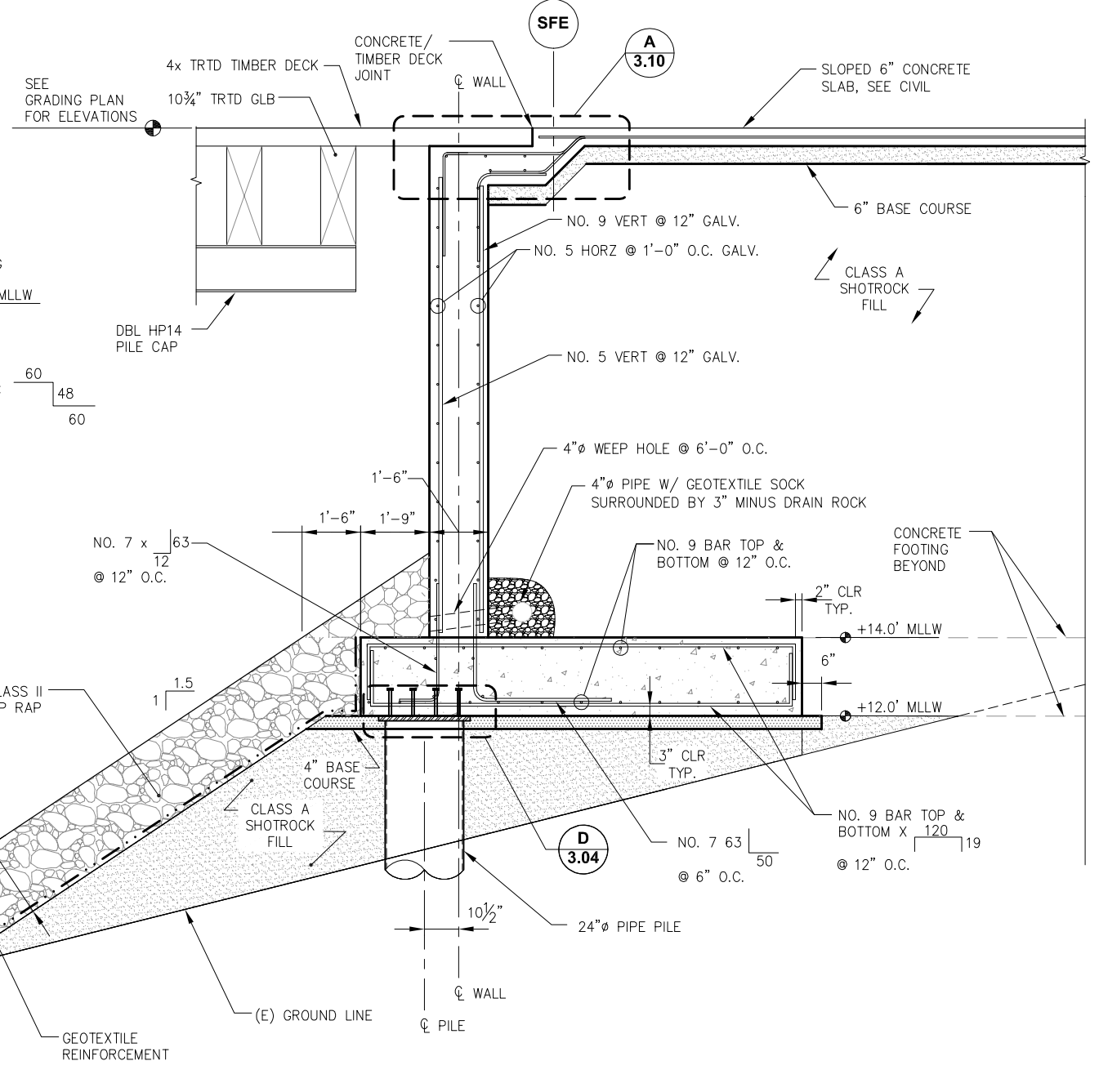


**RETAINING WALL FOUNDATION PLAN**



**C 3.03 FOOTING STEP**

NOTE: PILES NOT SHOWN



**A 3.04 RETAINING WALL SECTION**



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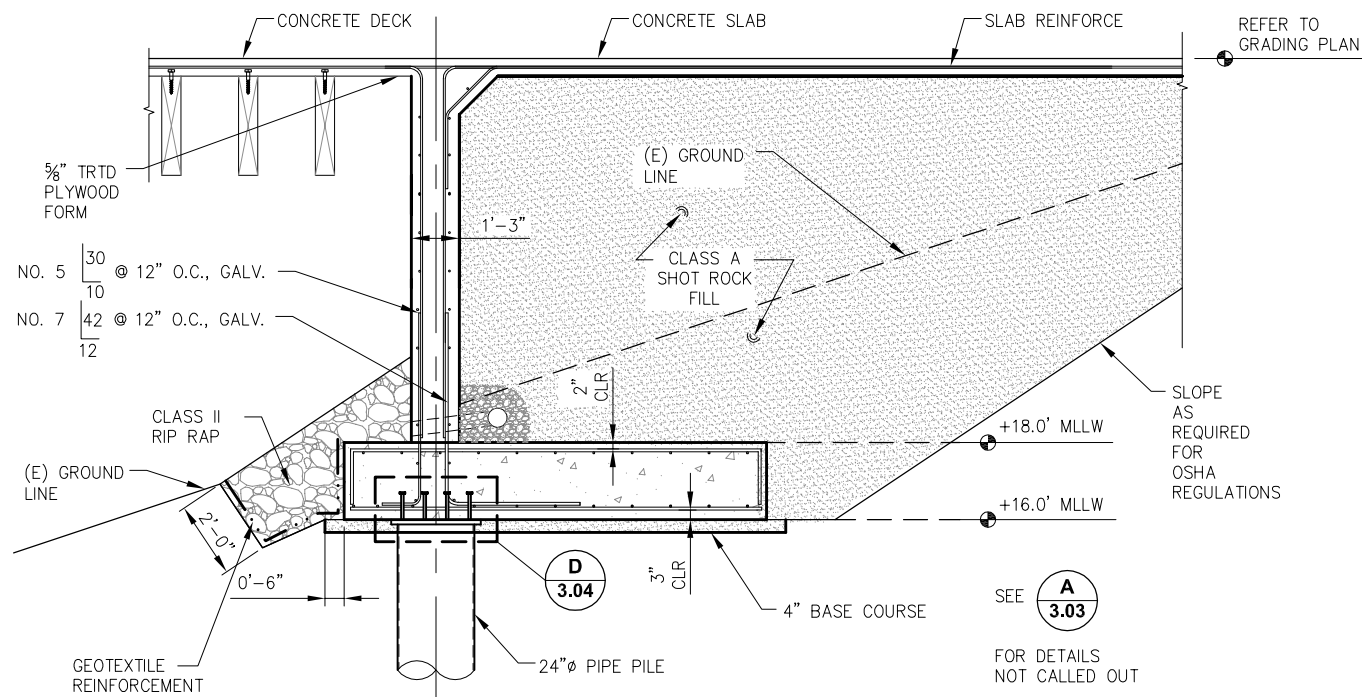


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
CONTRACT NO. DH12-002

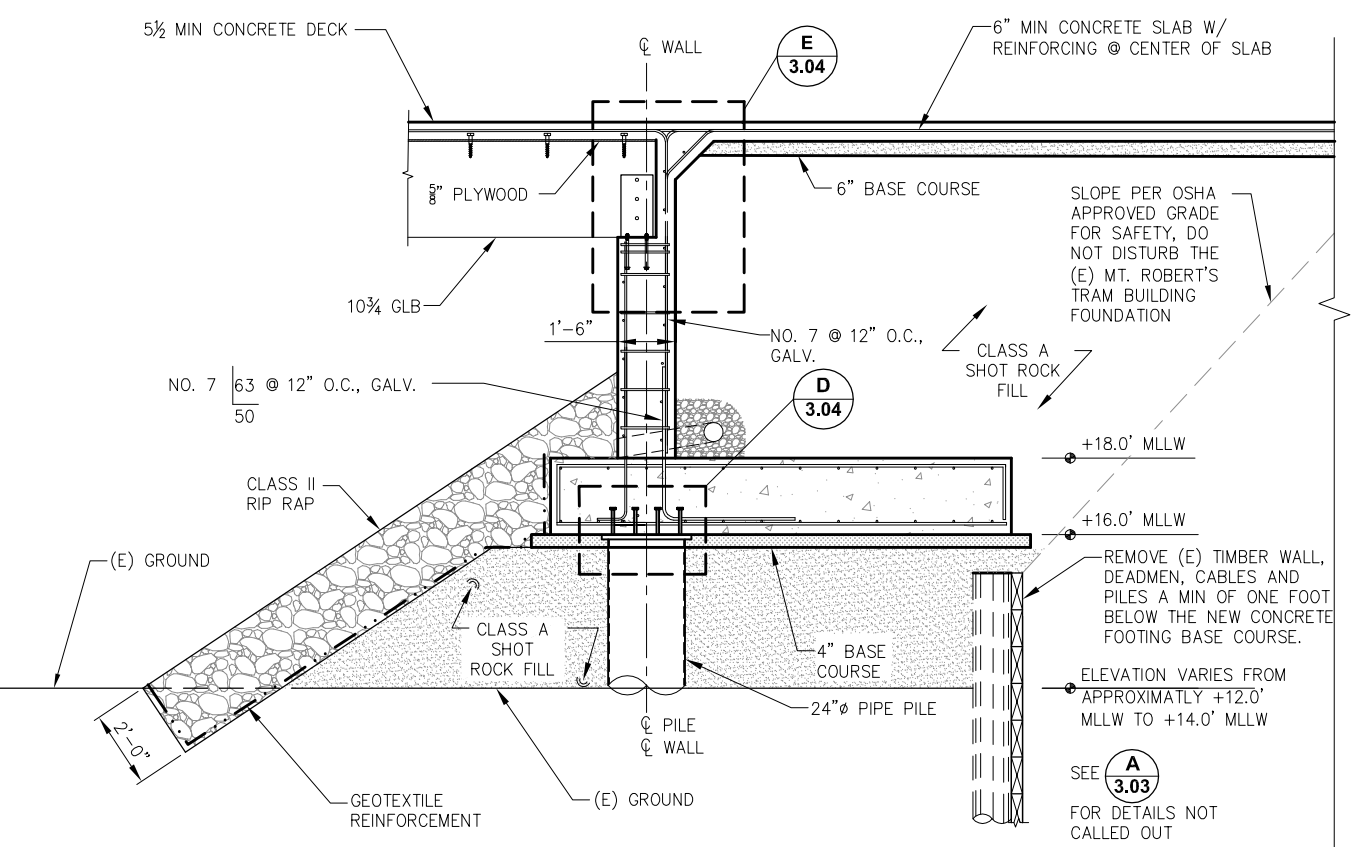
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PND PROJECT NO.: 102081    DWG. FILE: 3.03.dwg

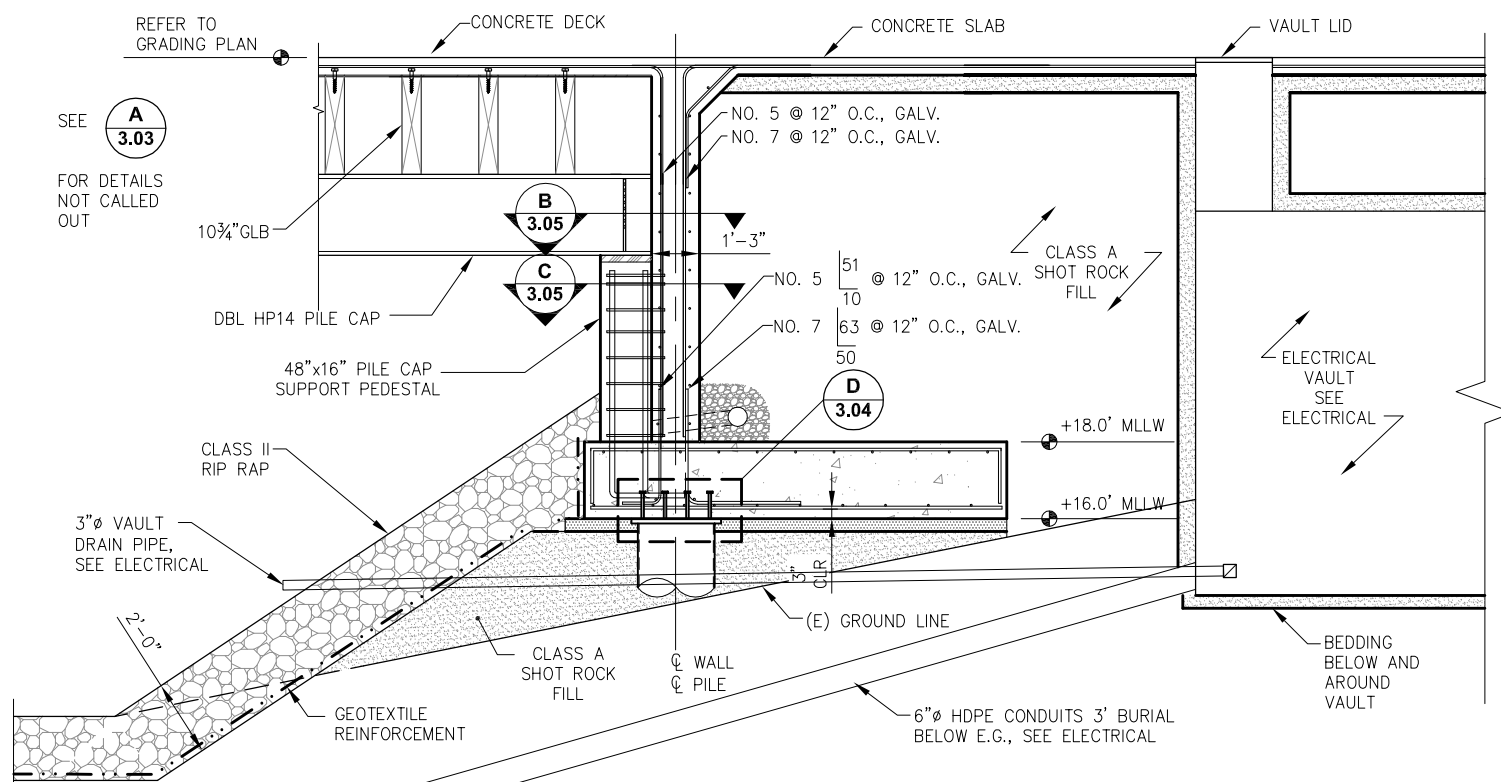
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SHEET 21 OF 38



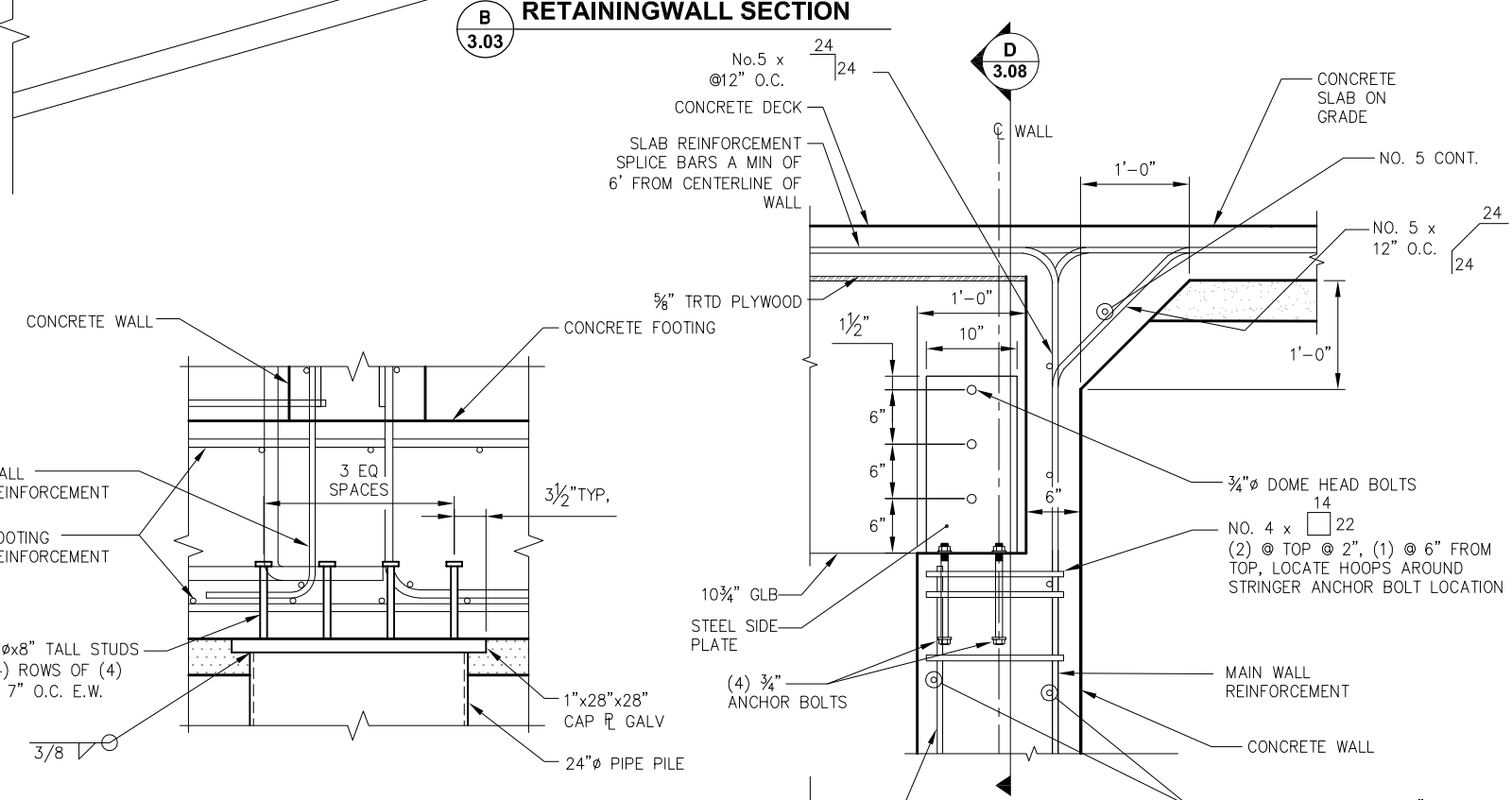
**A**  
3.03  
**RETAININGWALL SECTION**



**C**  
3.03  
**RETAININGWALL SECTION**



**B**  
3.03  
**RETAININGWALL SECTION**



**D**  
3.04  
**PILE CONNECTION TO FOOTING DETAIL**

**E**  
3.04  
**BEAM SEAT DETAIL**

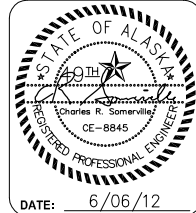


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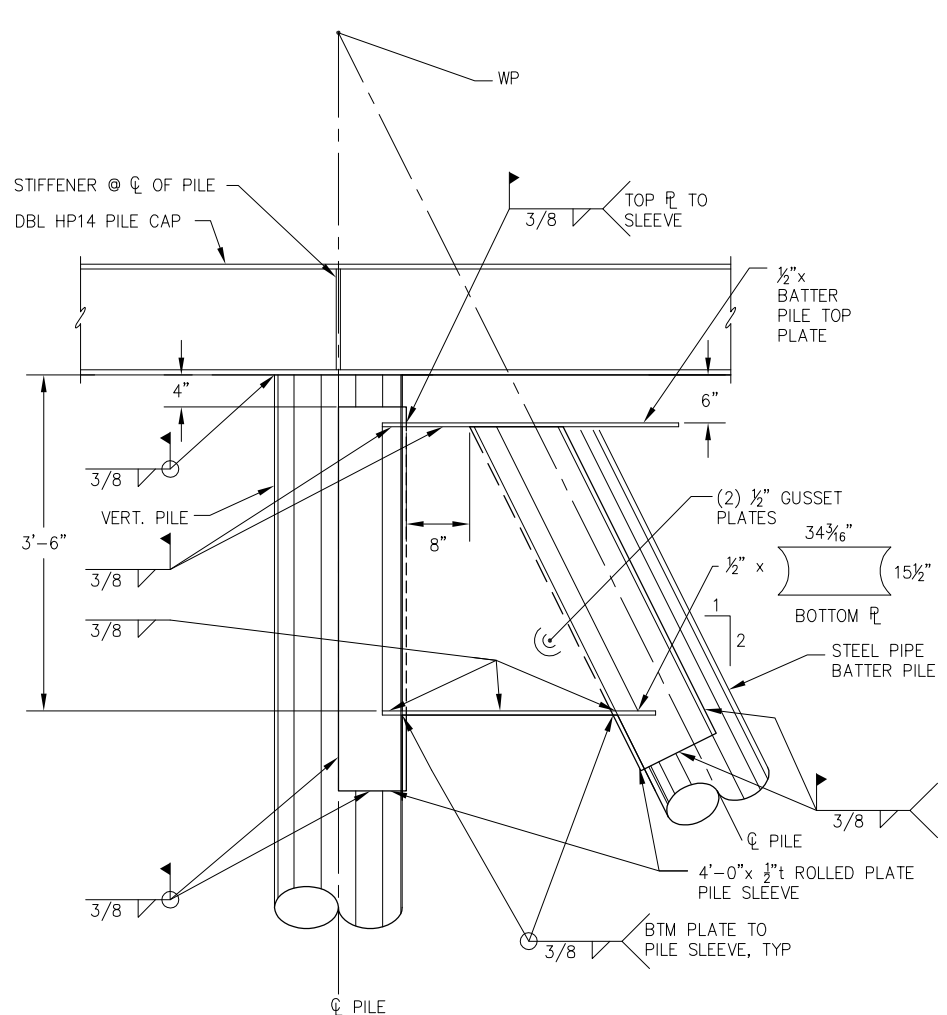


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
CONTRACT NO. DH12-002

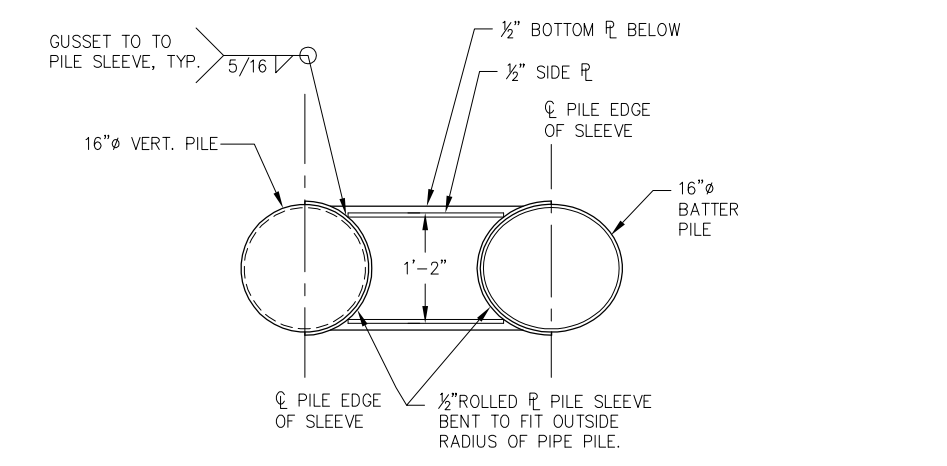
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PND PROJECT NO.: 102081    DWG. FILE:

**3.04**  
SHEET  
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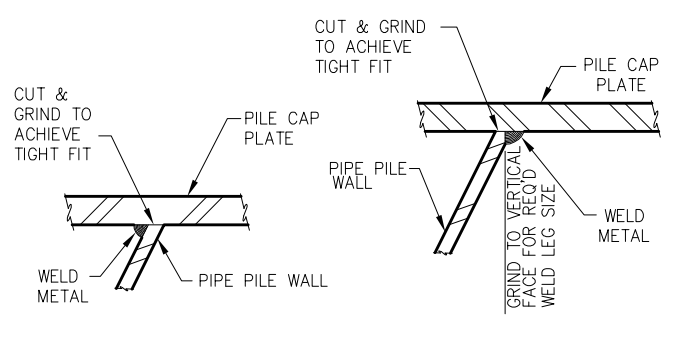


**ELEVATION**

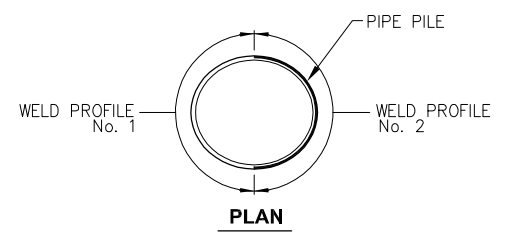


**SECTION**

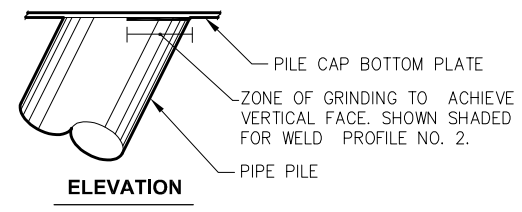
**A TYPICAL SIDE BATTER PILE CONNECTION**  
3.08



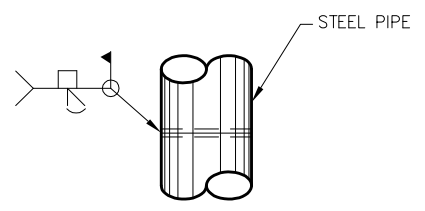
**WELD PROFILE No. 1**      **WELD PROFILE No. 2**



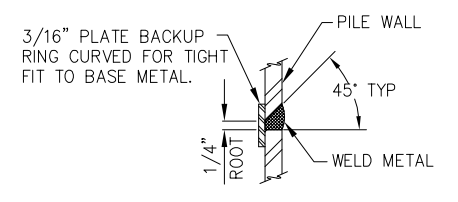
**PLAN**



**ELEVATION**

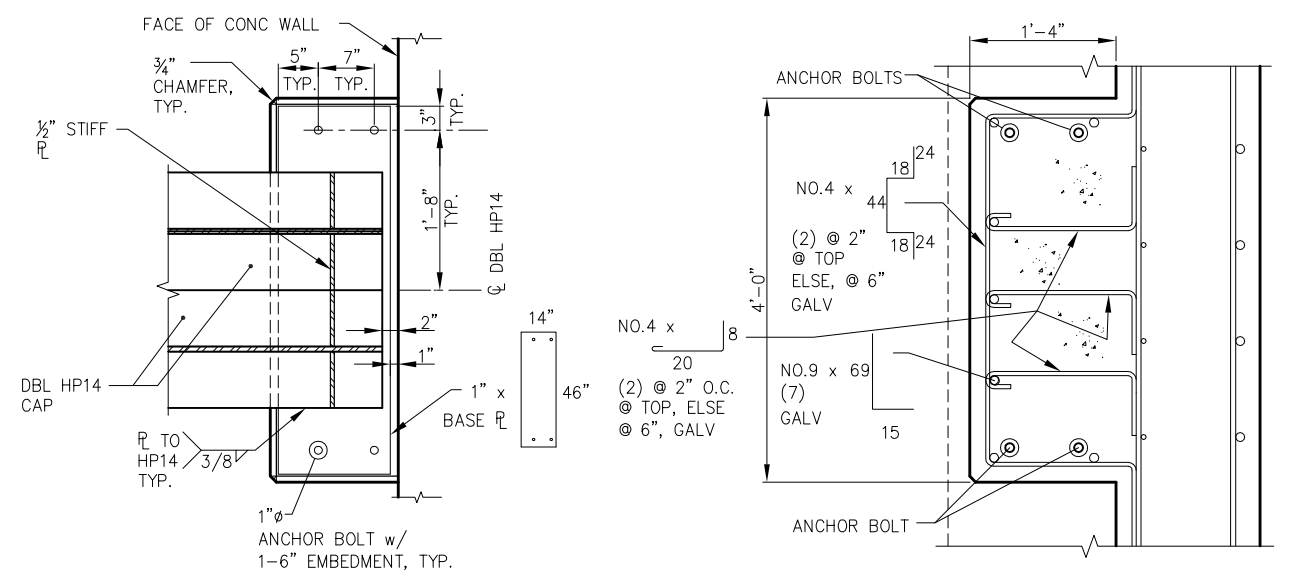


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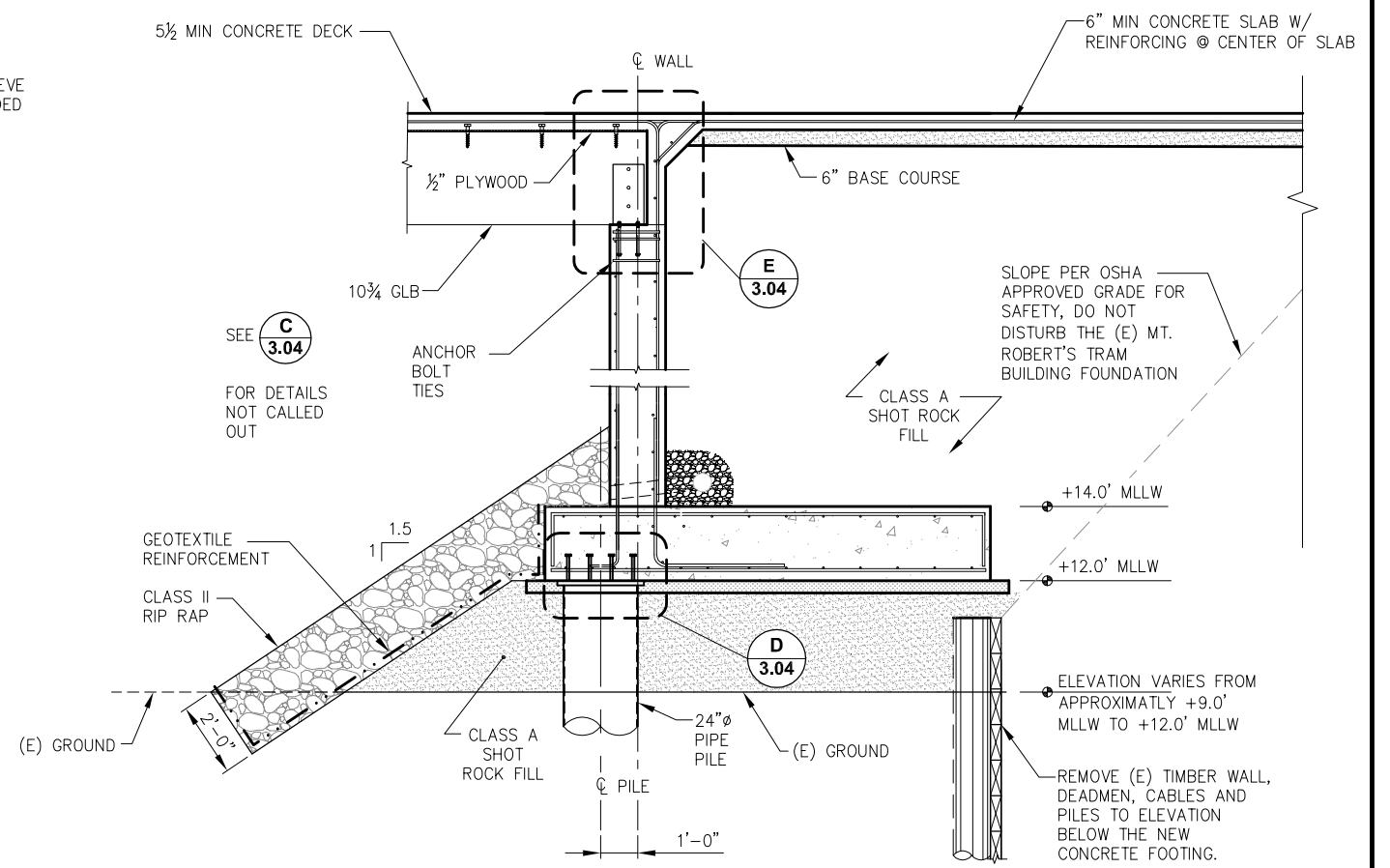
**TYPICAL SECTION**

**TYPICAL PILE CONNECTION DETAILS**



**B PILE CAP SUPPORT PEDESTAL**  
3.04

**C PILE CAP SUPPORT PEDESTAL**  
3.04



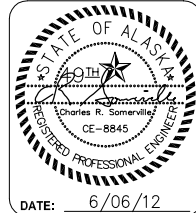
**D RETAINING WALL SECTION**  
3.03 AT PILE GRIDS SFF AND SFG



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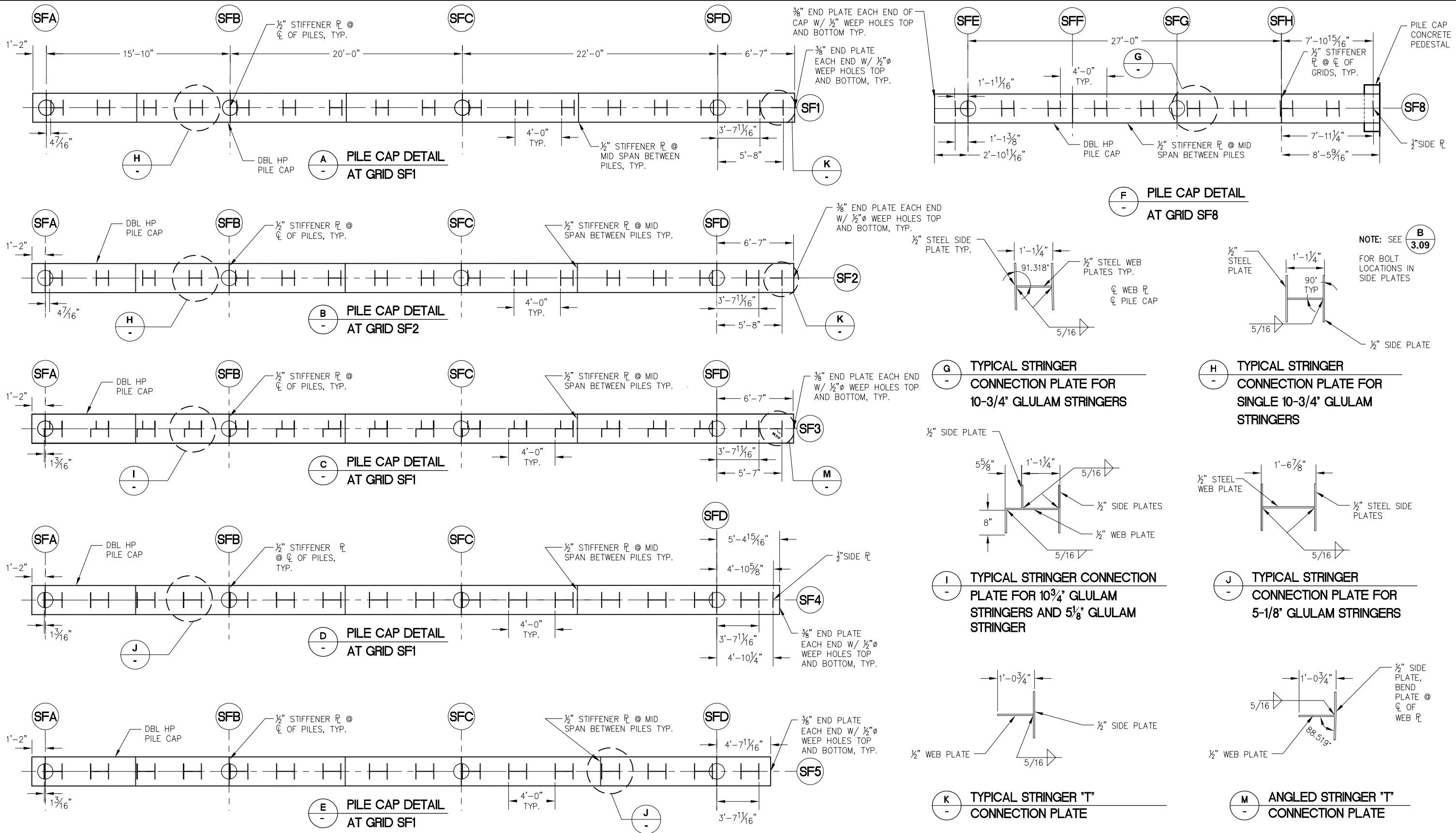


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
CONTRACT NO. DH12-002

SHEET TITLE: **SOUTH FERRY DOCK BATTER PILE CONNECTION & WALL SECTION**

PND PROJECT NO.: 102081    DWG. FILE: 3.05.dwg

**3.05**  
SHEET 23 OF 38



NOTE: ALL PLATES ARE DIMENSIONED TO OUTSIDE OF SIDE PLATES.

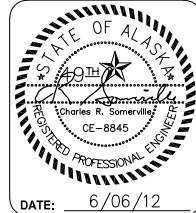


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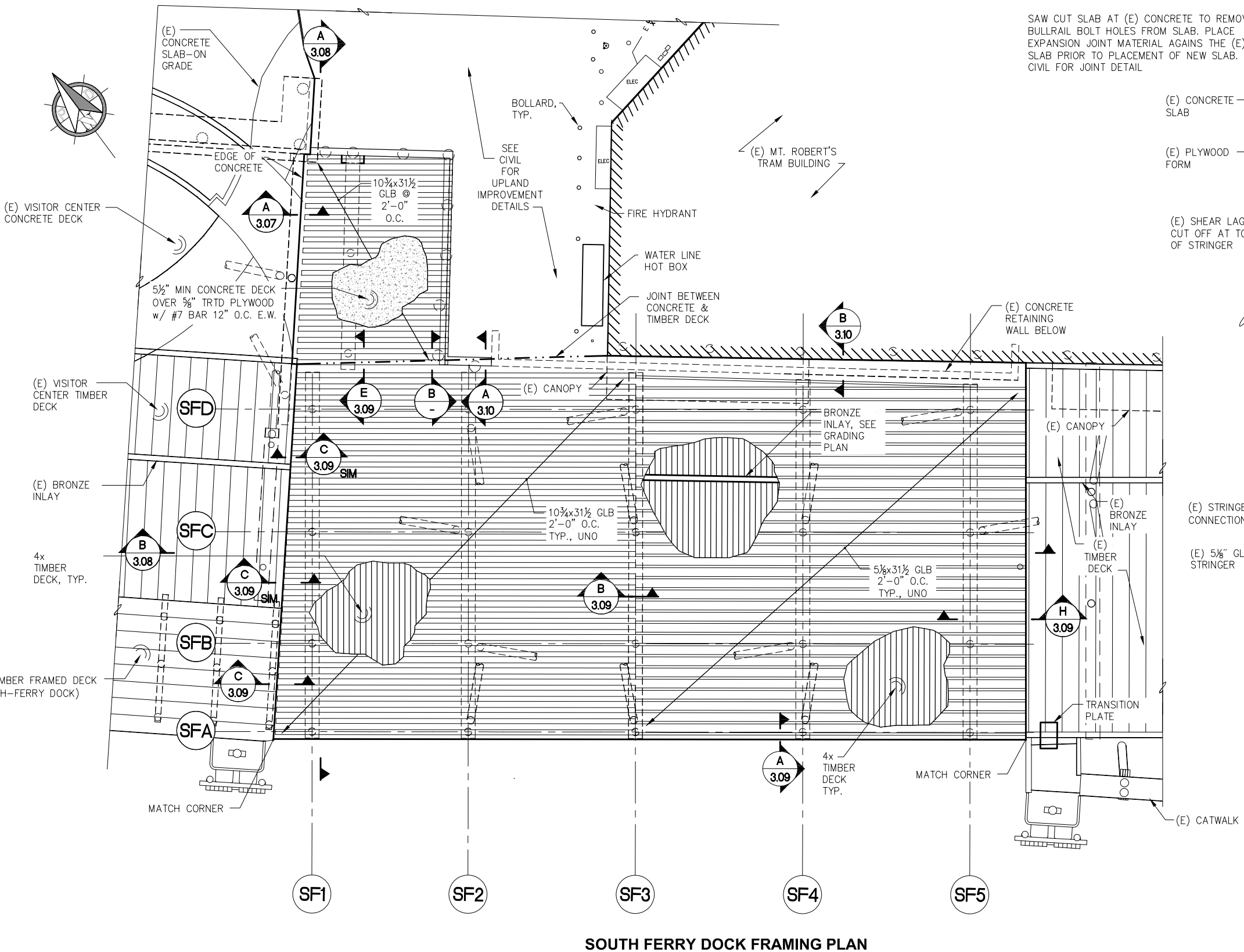


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
CONTRACT NO. DH12-002

SHEET TITLE: **SOUTH FERRY DOCK PILE CAP DETAIL**

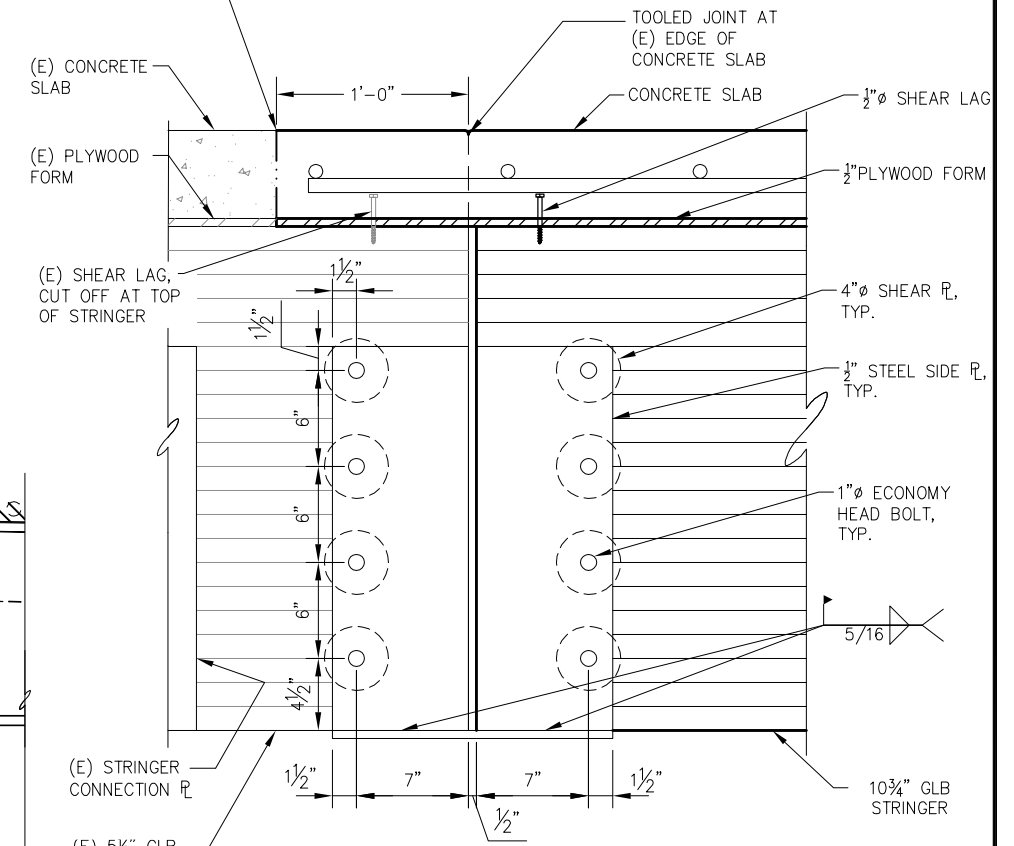
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**3.06**  
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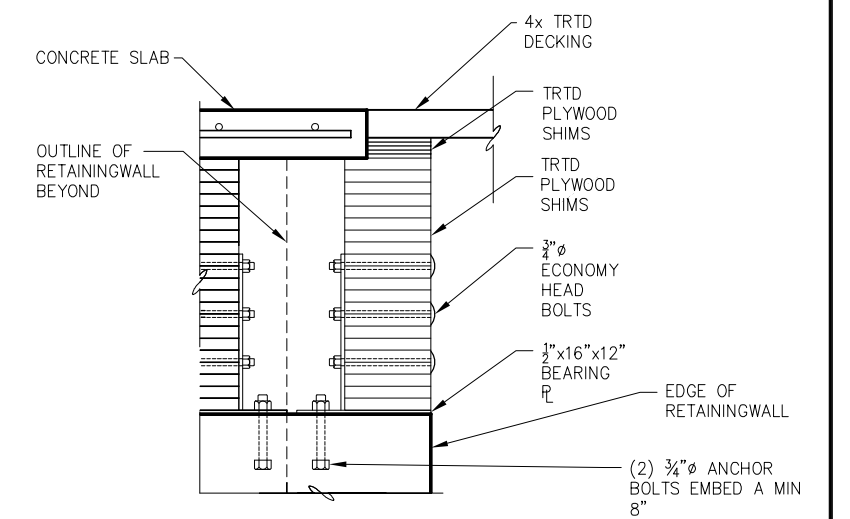


**SOUTH FERRY DOCK FRAMING PLAN**

SAW CUT SLAB AT (E) CONCRETE TO REMOVE BULLRAIL BOLT HOLES FROM SLAB. PLACE EXPANSION JOINT MATERIAL AGAINST THE (E) SLAB PRIOR TO PLACEMENT OF NEW SLAB. SEE CIVIL FOR JOINT DETAIL



**A DOCK CONNECTION DETAIL**  
 NOTE: FIELD LOCATE, FIT UP AND FABRICATE AS REQUIRED, DO NOT WELD AGAINST TIMBERS, REPAIR ALL GALVANIZED COATINGS.



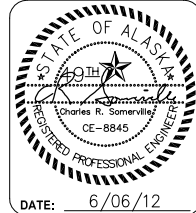
**B STRINGER CONNECTION DETAIL AT EDGE OF CONCRETE WALL**



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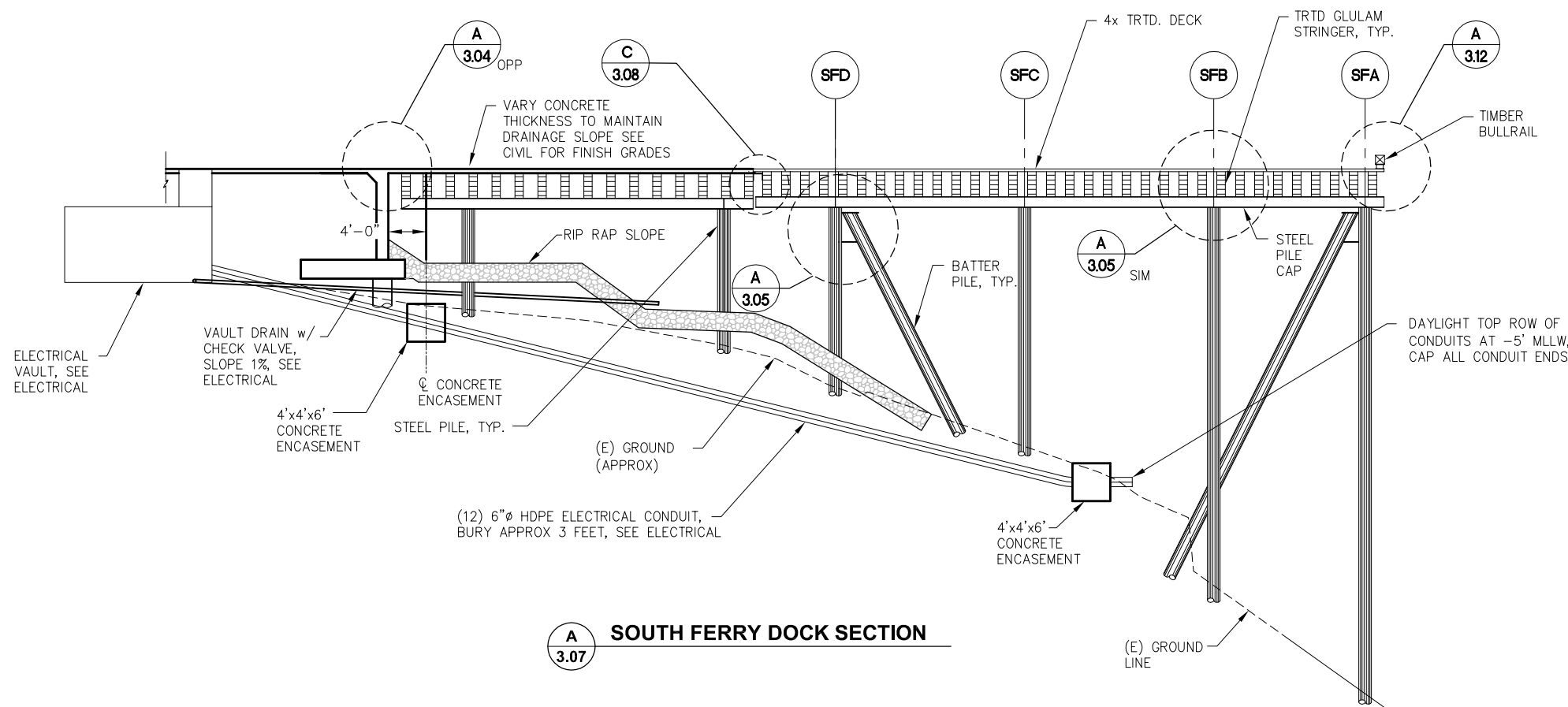


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

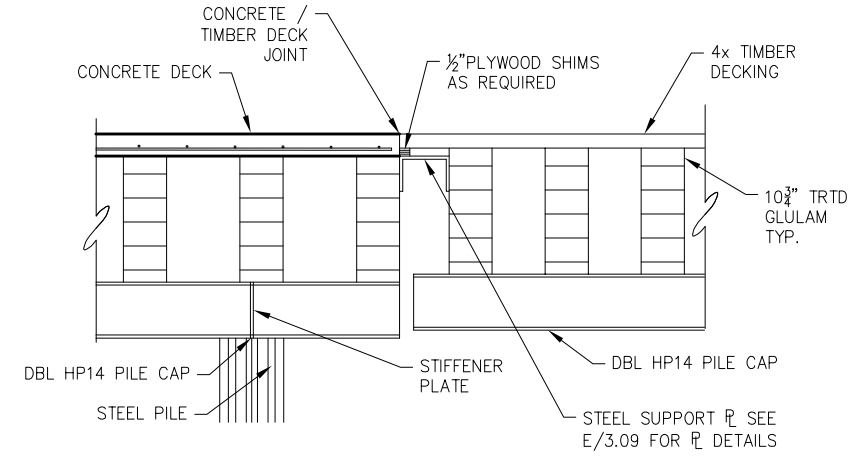
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PND PROJECT NO.: 102081 DWG. FILE: 3.07.dwg

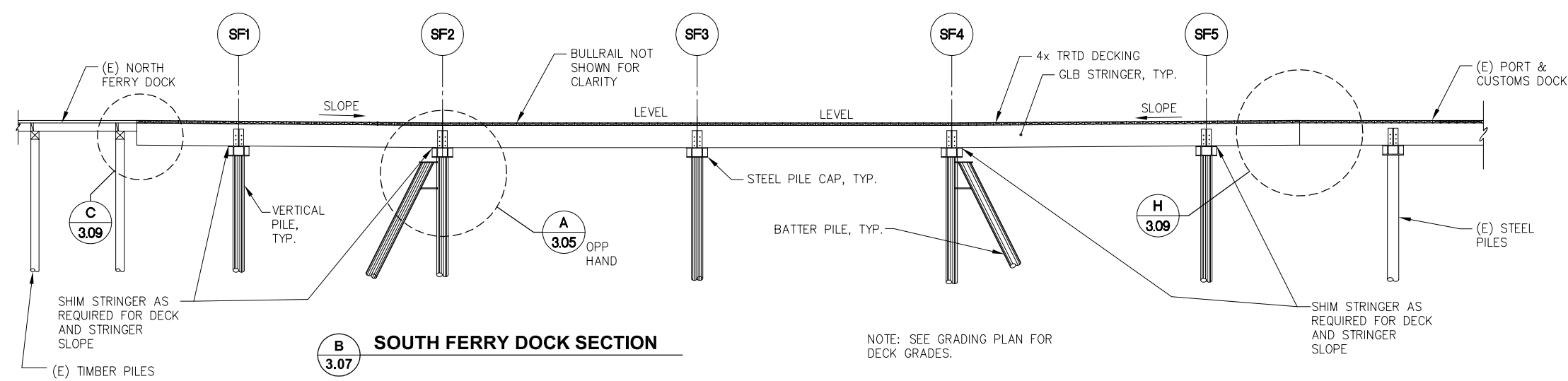
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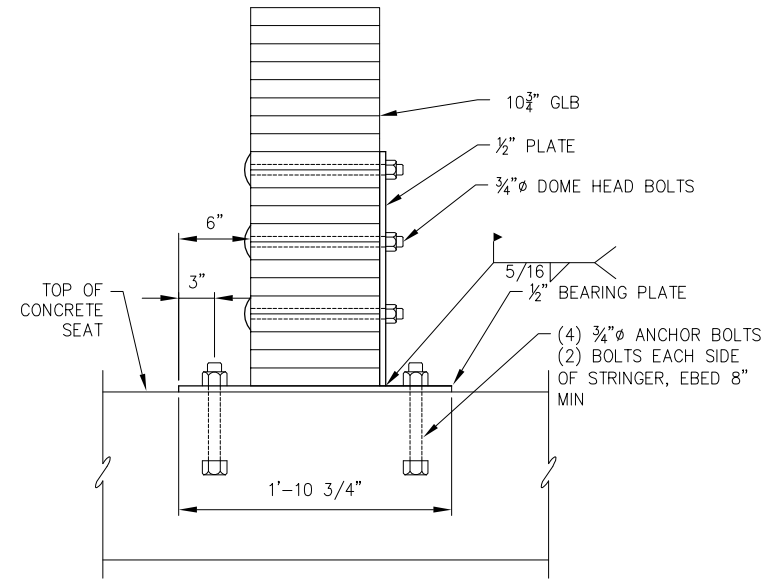
**A 3.07 SOUTH FERRY DOCK SECTION**



**C 3.08 CONCRETE AND TIMBER DECK JOINT DETAIL**



**B 3.07 SOUTH FERRY DOCK SECTION**



**D 3.04 STRINGER TO CONCRETE PEDESTAL CONNECTION SECTION**

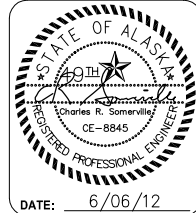


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**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

SHEET TITLE: **SOUTH FERRY DOCK SECTIONS AND DETAILS**

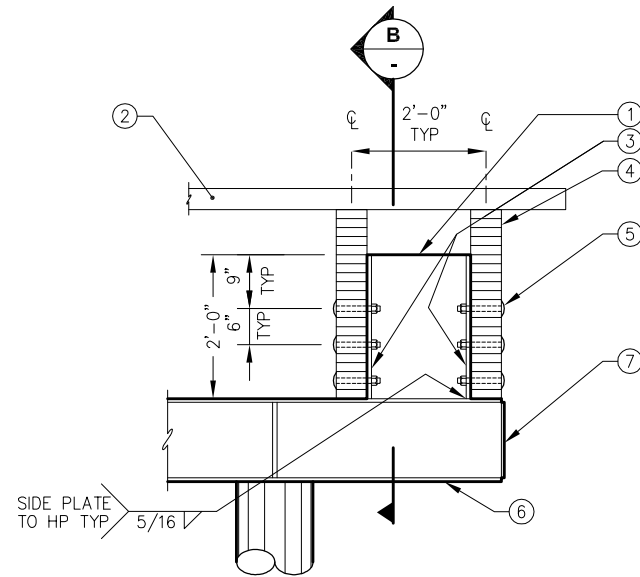
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**3.08**  
 SHEET  
 26 OF 38



- 1) 1/2" WEB PL
- 2) 4x TRTD DECK
- 3) 1/2" SIDE PL
- 4) GLULAM STRINGER, TYP

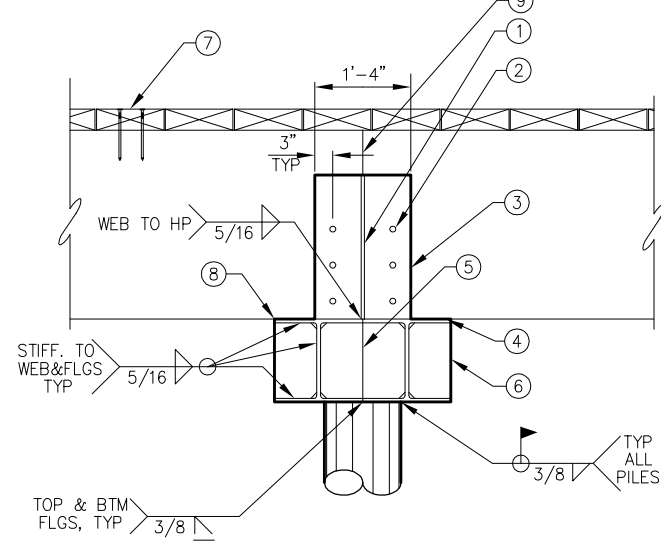
- 5) 3/4" ECONOMY HEAD BOLT, TYP.
- 6) DBL HP14 PILE CAP
- 7) 3/8" END PL



**A** TYPICAL STRINGER CONNECTION  
ELEVATION

- 1) 1/2" WEB PL
- 2) 7/8" HOLE, TYP.
- 3) 1/2" SIDE PL
- 4) DBL HP 14 PILE CAP
- 5) NO WELD

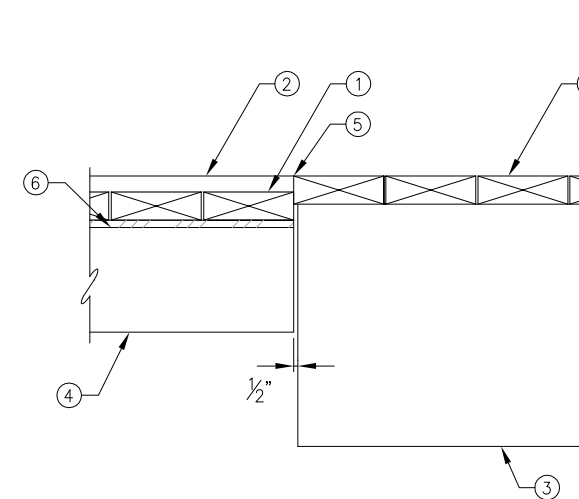
- 6) 1/2" STIFFENER PL @ CL OF PILES.  
CLIP CRNRS
- 7) (2) 3/8"x8 1/2" COMMON WIRE  
SPIKE AT PLANK, TYP.
- 8) SHIM STRINGER AS REQUIRED  
FOR SLOPED SPANS
- 9) SPLICE STRINGER AT CHANGE IN  
SLOPE



**B** TYPICAL PILE CAP SECTION

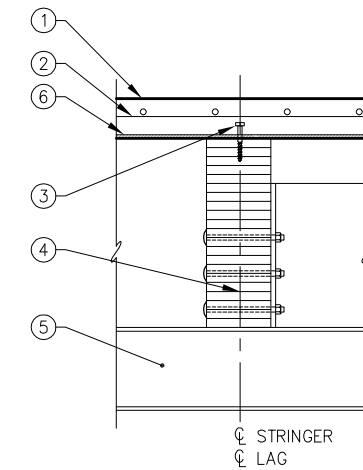
- 1) 4x DECK
- 2) 2x WEAR DECK
- 3) 10 3/4" GLB

- 4) (E) TIMBER STRINGER
- 5) MATCH NEW AND EXISTING DECK SEE  
GRADE PLAN FOR GRADES.
- 6) TRTD PLYWOOD DECK SHIM AS REQUIRED  
OVER A 10' MIN TRANSITION



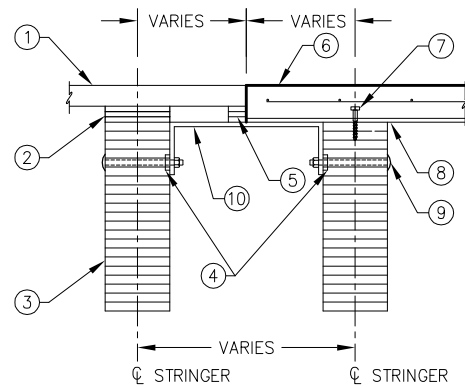
**C** STRINGER CONNECTION  
@ EXISTING NORTH FERRY DOCK

- 1) CONCRETE DECK
- 2) SLAB REINFORCING
- 3) 1/2"x6" GALV. LAG @ 2'-0" O.C. W/  
2" PROJECTION INTO CONCRETE
- 4) GLULAM STRINGERS
- 5) DBL HP14 PILE CAP
- 6) 3/8" TRTD PLYWOOD



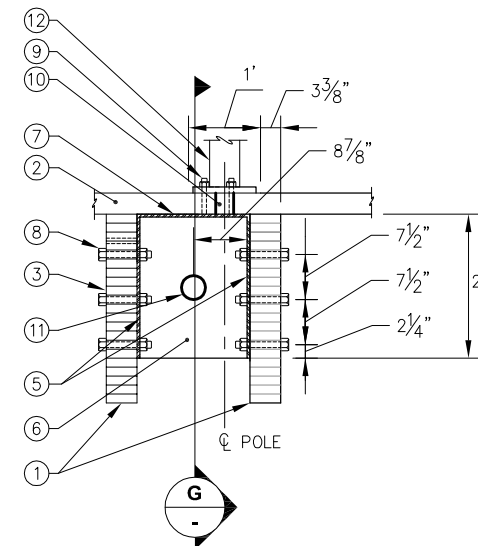
**D** TYPICAL SHEAR  
STUD AT CONCRETE DECK

- 1) 4x DECKING
- 2) 1/2" PLYWOOD TRTD SPACERS  
AS REQUIRED
- 3) 10 3/4" GLULAM STRINGERS
- 4) 4" SHEAR PLATE
- 5) 1/2" PLYWOOD TRTD SPACERS  
AS REQUIRED W/ MIN DECK  
BEARING = 3"
- 6) CONCRETE DECK
- 7) 1/2"x6" GALV. LAG @ 2'-0"  
O.C. W/ 2" PROJECTION  
INTO CONCRETE
- 8) 5/8" TRTD PLYWOOD
- 9) 3/4" BOLT @ 4" O.C. W/ 4"  
SHEAR PLATE  
VARIES
- 10) 3/4" x 8" BENT PLATE



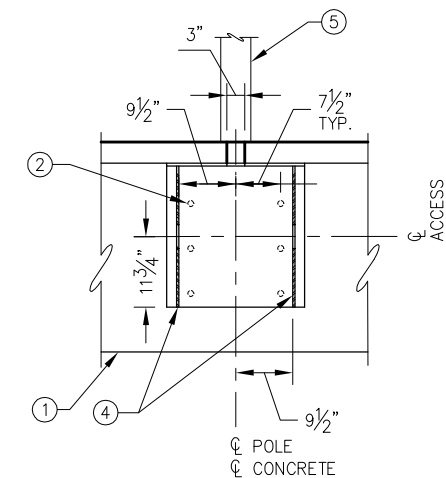
**E** CONCRETE EDGE SUPPORT  
BRACKET

- 1) GLULAM STRINGERS
- 2) 4x DECKING
- 3) MI WASHER
- 4) NOT USED
- 5) 1/2"x24"x23" PL
- 6) (2) 3/8"x17 3/4"x23 1/2" PL
- 7) 1/2"x17 3/4"x23" PL
- 8) 1" BOLTS EA SIDE OF  
CENTER PL 7 1/2" FROM CL POLE
- 9) 3/4" STUD CP WELD TO PL
- 10) 3" ACCESS HOLE
- 11) 4" ACCESS HOLE
- 12) LIGHT POLE



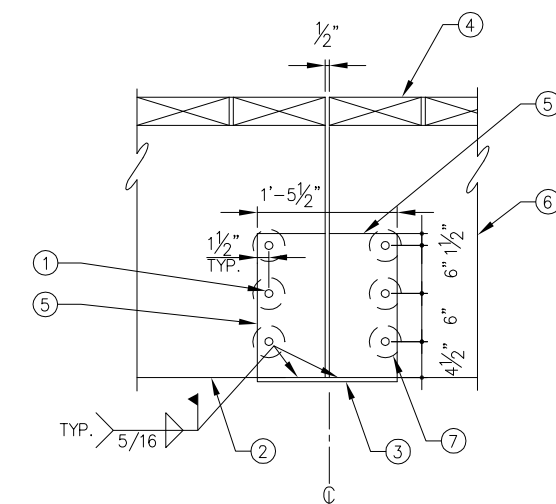
**F** TYPICAL LIGHT POLE  
BRACKET SECTION

- 1) 5/8" GLULAM
- 2) 1" BOLTS, TYP.
- 3) NOT USED
- 4) 3/8"x17 3/4"x23 1/2" PL
- 5) LIGHT POLE



**G** TYPICAL LIGHT POLE  
BRACKET ELEVATION

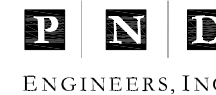
- 1) (3) 1" BOLTS EACH GLB
- 2) 5/8" GLB STRINGER
- 3) 1/2" BENT BOTTOM PL TO MATCH  
GLB SLOPE
- 4) 4x DECKING
- 5) 1/2" CONNECTION PL EACH  
SIDE OF GLB
- 6) (E) 5/8" GLB
- 7) 4" SHEAR PLATES, TYP.



**H** STRINGER CONNECTION TO  
EXISTING CBJ PORT DOCK



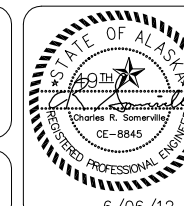
REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



9360 Glacier Highway, Ste. 100  
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Fax: 907-586-2099  
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DESIGN: MDS CHECKED: CMG  
DRAWN: KLL APPROVED: CRS

SCALE:



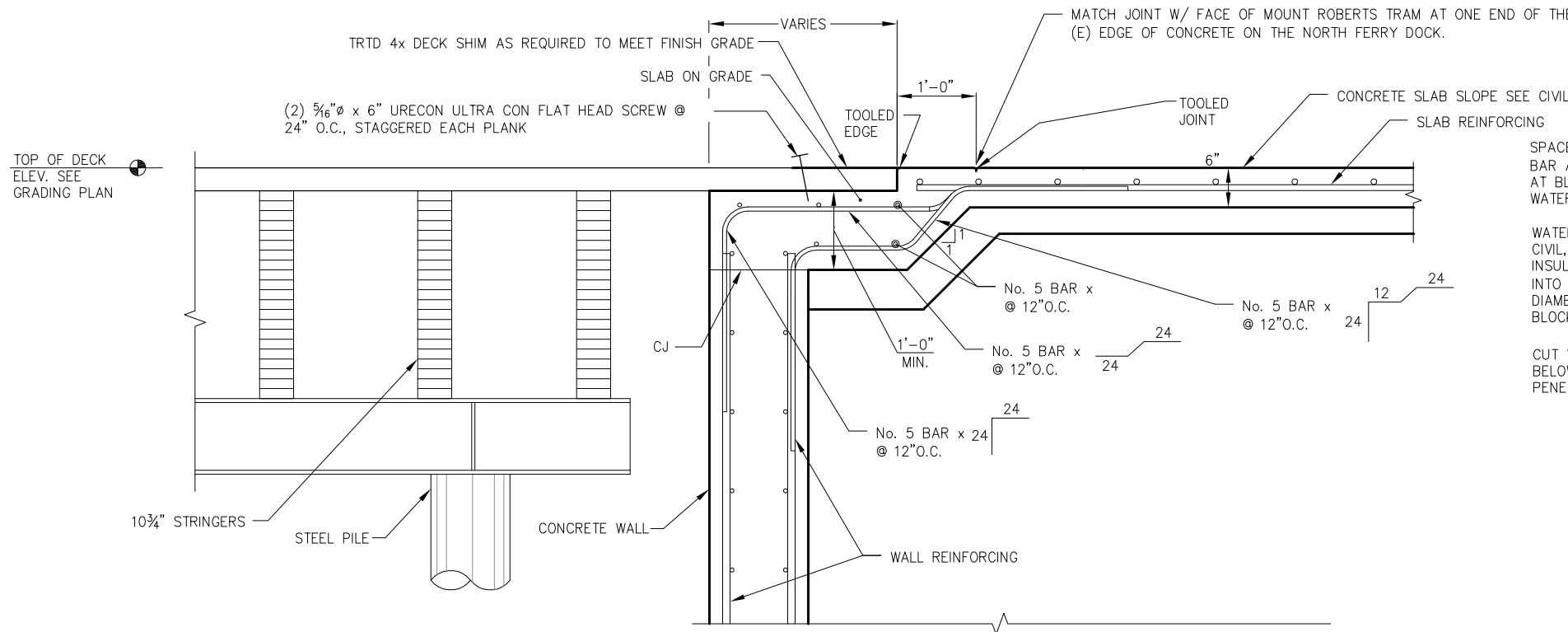
**CRUISE SHIP TERMINAL STAGING AREA  
IMPROVEMENTS  
CONTRACT NO. DH12-002**

SHEET TITLE:  
**SOUTH FERRY DOCK  
STRUCTURAL DETAILS**

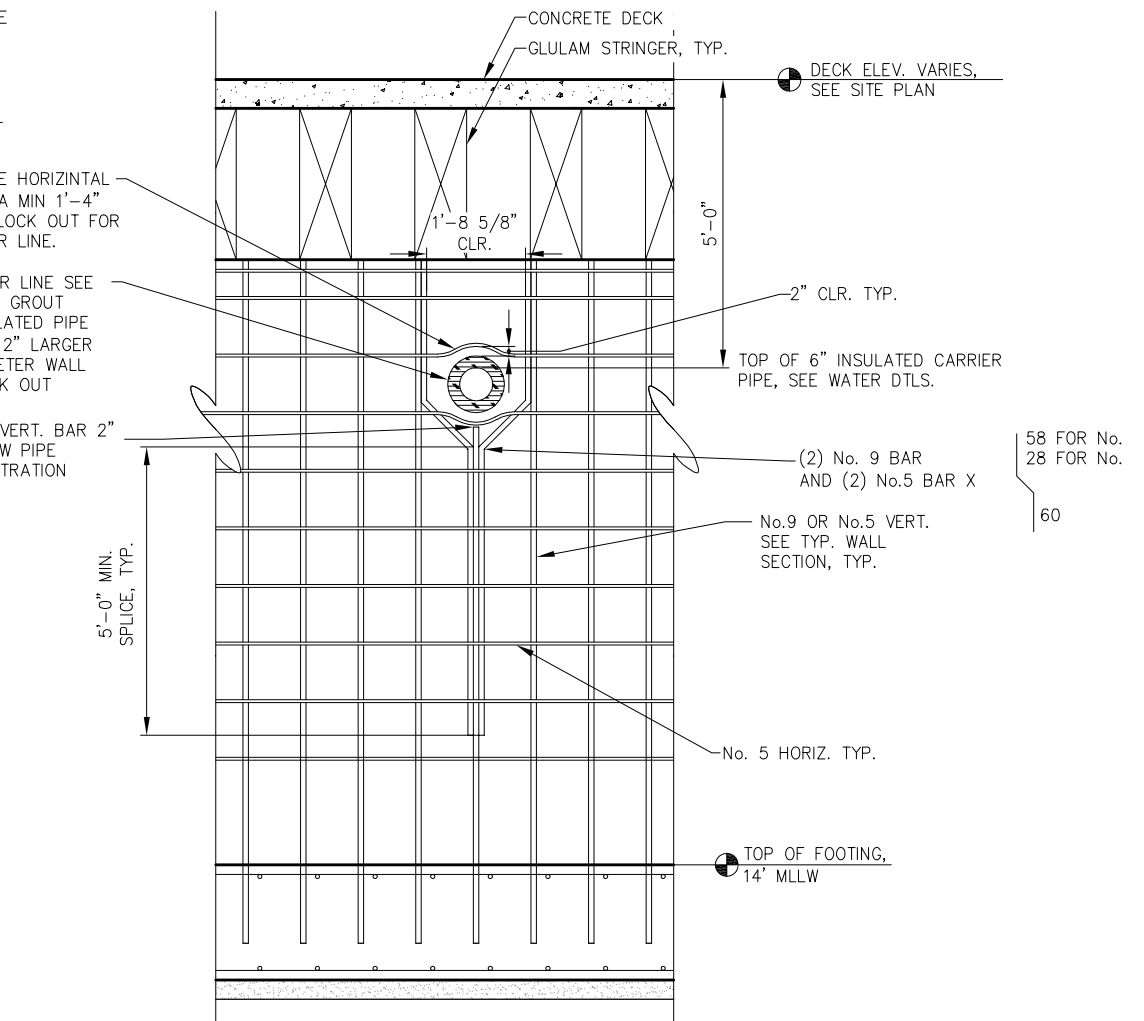
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**3.09**  
SHEET  
27 OF 38

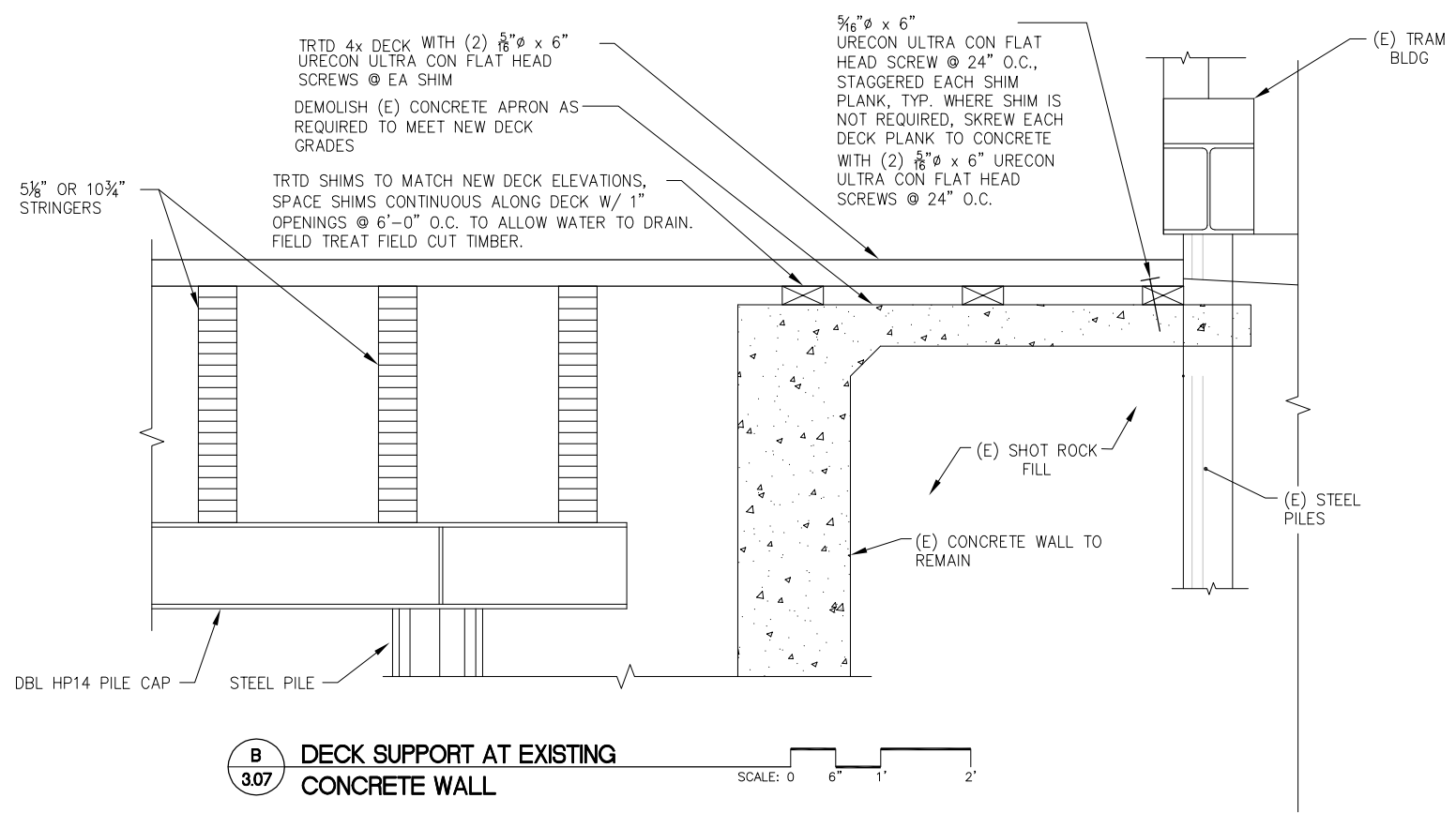
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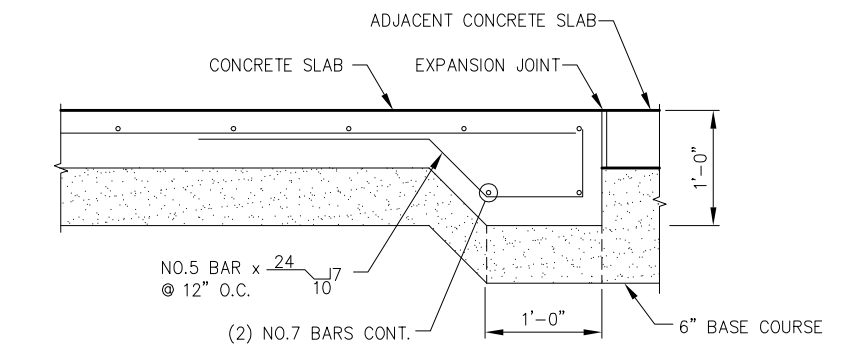
**A**  
SECTION AT NEW CONCRETE WALL  
SCALE: 0 6" 1' 2'



**TYPICAL WALL PENETRATION REBAR LAYOUT**



**B**  
DECK SUPPORT AT EXISTING CONCRETE WALL  
SCALE: 0 6" 1' 2'



**C**  
CONCRETE SLAB JOINT AT THICKENED SLAB EDGE SECTION AT CONCRETE WATER METER SLAB, (E) ELECTRICAL PADS, AND (E) SLAB ON GRADE



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DESIGN: MDS    CHECKED: CMG    SCALE:  
 DRAWN: KLL    APPROVED: CRS

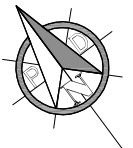


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

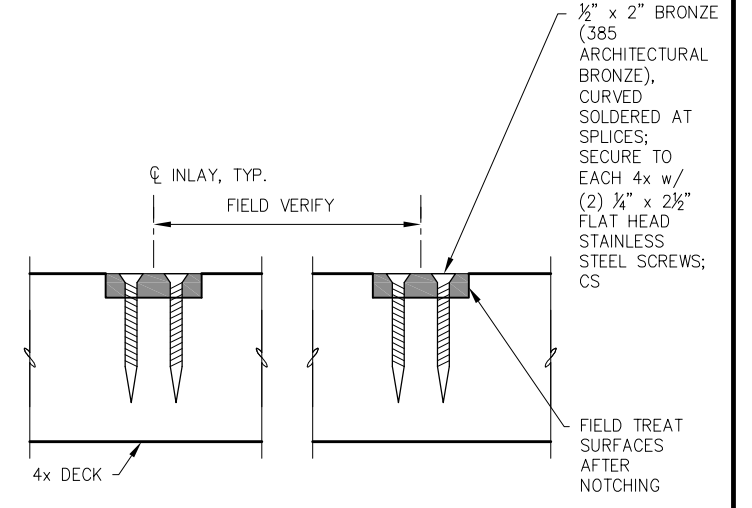
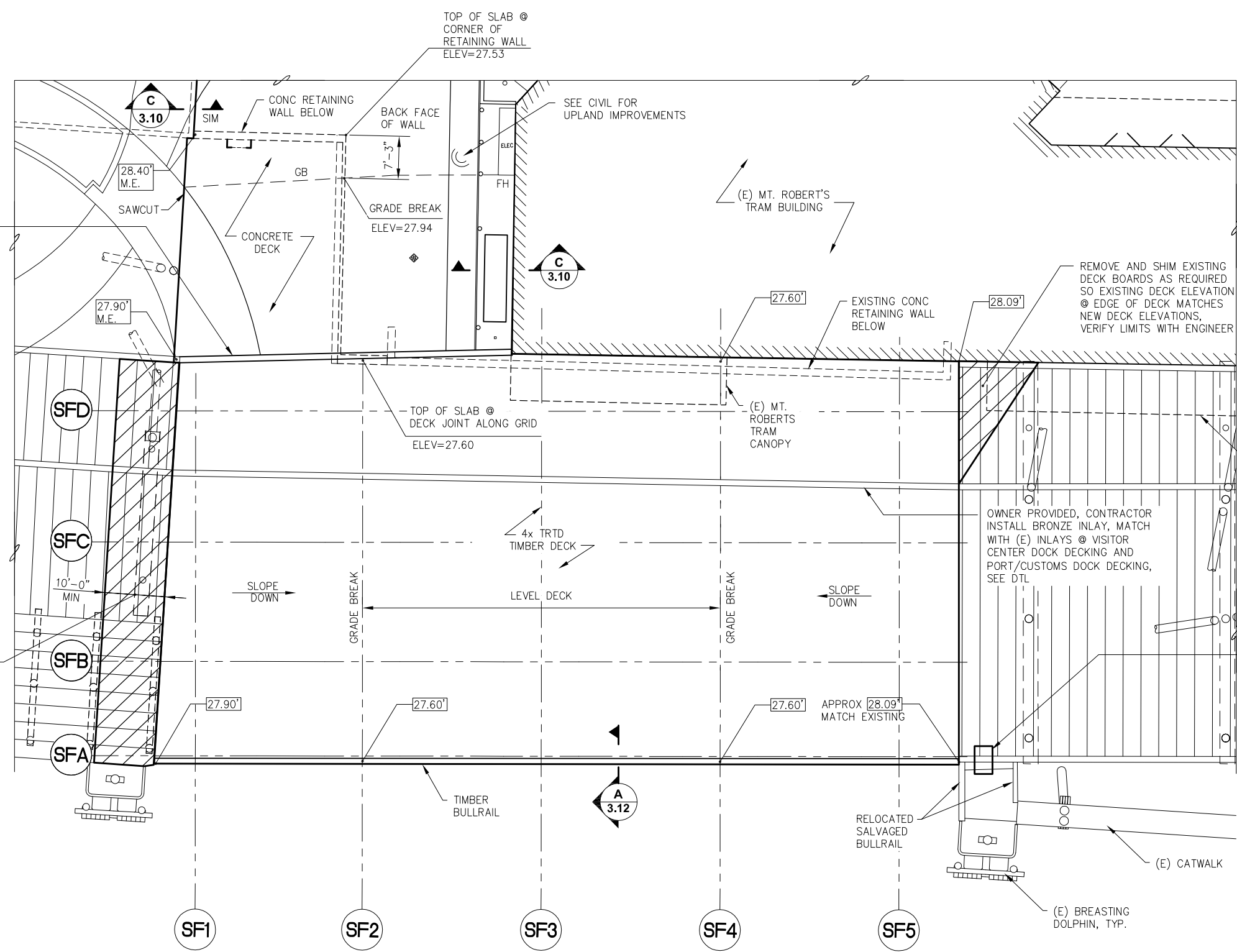
SHEET TITLE: **SOUTH FERRY DOCK STRUCTURAL DETAILS**

PND PROJECT NO.: 102081    DWG. FILE: 3.10.dwg

**3.10**  
SHEET  
28 OF 38



TOOLED CONCRETE EDGE, MATCH WITH EDGE ON THE VISITOR CENTER DOCK, USE DETAIL (E/3.09) TO SUPPORT EDGE OF CONCRETE AND TIMBER DECK THAT DOES NOT BEAR ON GLB STRINGERS.



**A** BRONZE INLAY DETAIL

REMOVE AND REPLACE (E) 4x DECK; SHIM NEW DECK TO MEET ADA REQ'D. 2% SLOPE; REMOVE & REPLACE BRONZE INLAY AS REQ'D.

1/4" THICK x4'-8"x3' DIAMOND PLATE TRANSITION PLATE. SCREW TO TIMBER DECKING WITH 1/4" SDS WOOD SCREWS WITH A MIN OF 3 1/2" OF EMBED IN TIMBER @ 6" O.C. 2" FROM PLATE EDGE. BEVEL PLATE EDGES W/ 1/4" RADIUS ON ALL SIDES. REMOVE AND SALVAGE EXISTING BULLRAIL ALONG EAST SIDE OF PLATFORM AND REINSTALL SALVAGED BULLRAIL ALONG NORTH SIDE OF PLATFORM. REMOVE THE EXISTING BULLRAIL ON THE PORT AND CUSTOMS DOCK AS REQUIRED TO FIT THE ACCESS PLATE. FIELD VERIFY CONFIGURATION WITH ENGINEER PRIOR TO INSTALLATION

**SOUTH FERRY DOCK GRADING PLAN**

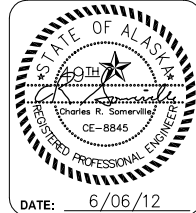


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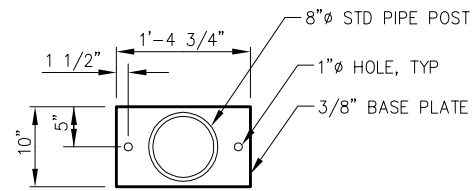


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS CONTRACT NO. DH12-002**

SHEET TITLE: **SOUTH FERRY DOCK GRADING PLAN**

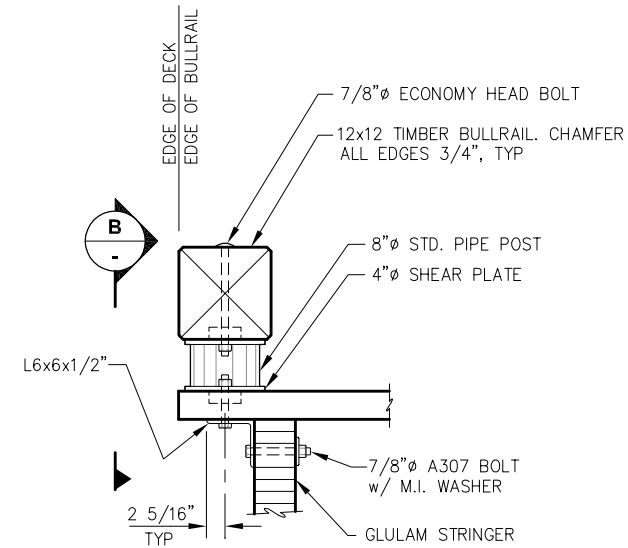
PND PROJECT NO.: 102081 DWG. FILE:

**3.11**  
SHEET 29 OF 38



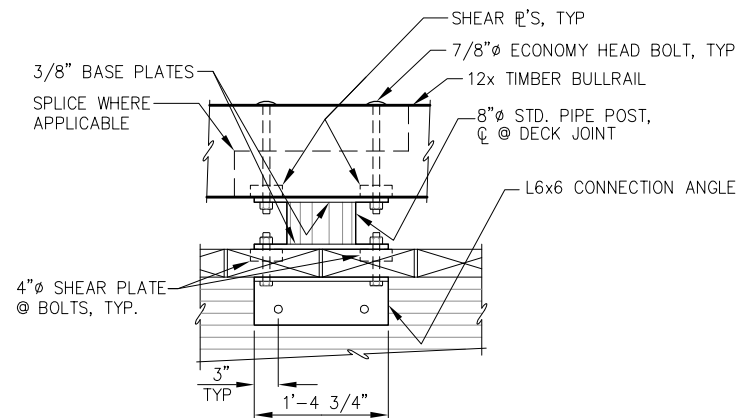
**1 POST BASE PLATE - PLAN**

NOTE:  
PROVIDE AT 6-FT O.C. MAX AND  
2-FT MAX FROM BULLRAIL ENDS.  
MIN. 2 POST BASE PER 12x12 PIECE.



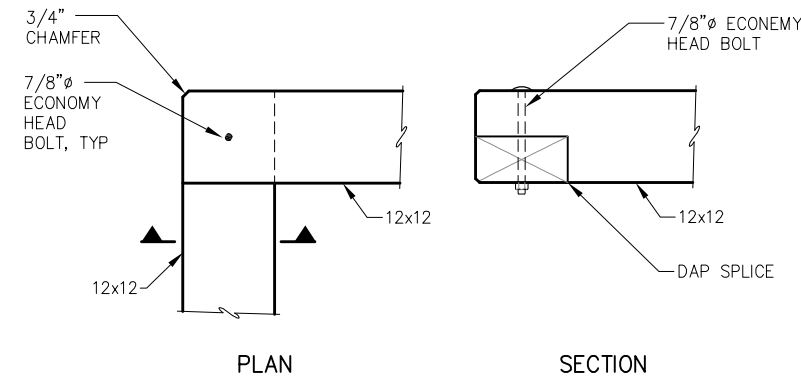
**A BULLRAIL SECTION**

- 3.11 NOTES:
1. ALL BULLRAIL CONNECTION BOLTS SHALL BE 7/8"Ø UNLESS OTHERWISE NOTED.
  2. DETAILS NOT SHOWN SIMILAR TO SECTION B.



**B BULLRAIL ELEVATION**

NOTE: DETAILS NOT SHOWN SIMILAR TO ELEVATION A.



**C TYPICAL BULLRAIL CORNER DETAIL**



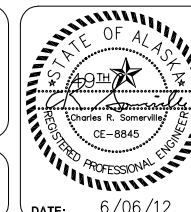
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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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DESIGN: MDS CHECKED: CRS  
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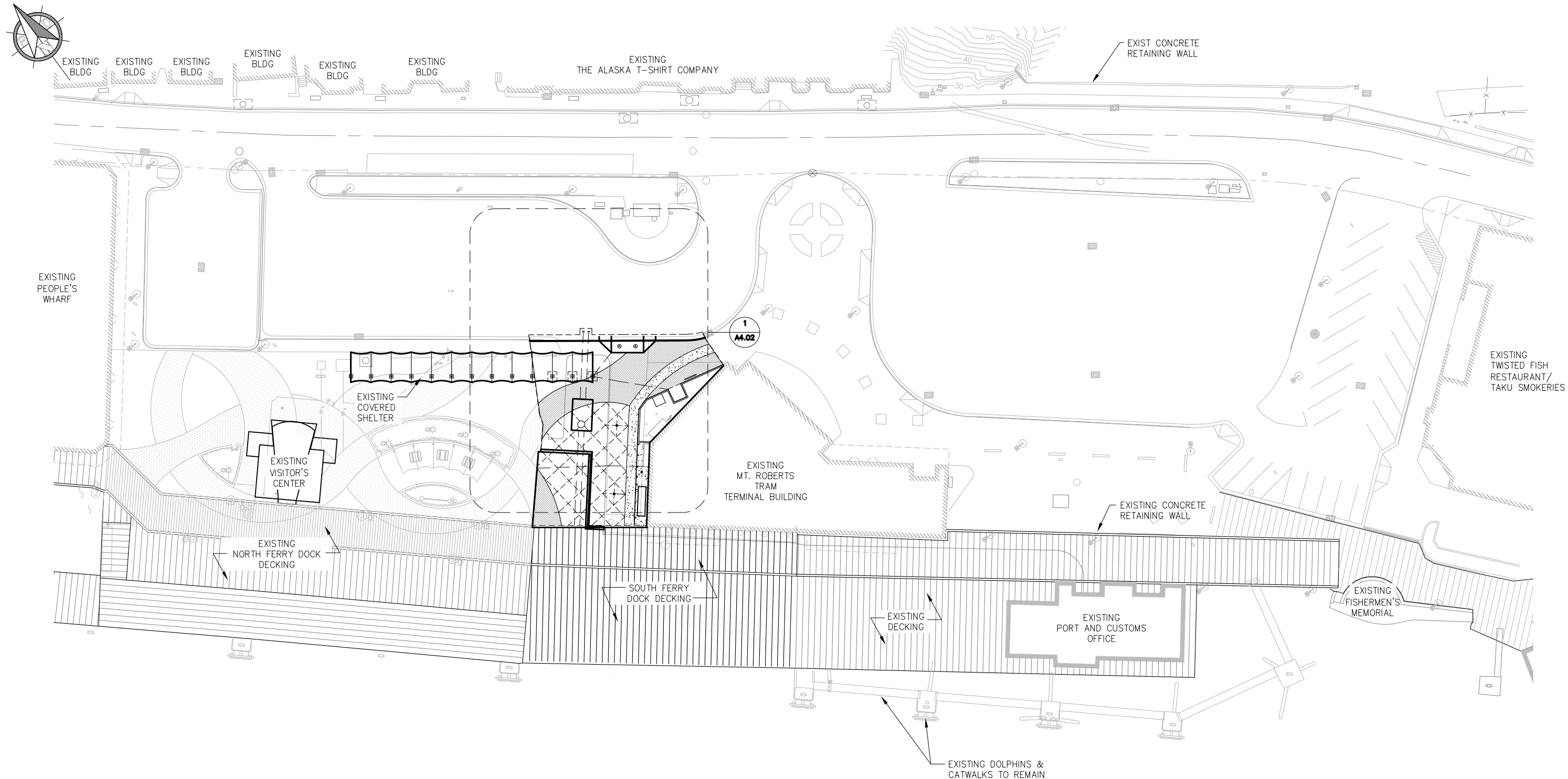
**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
CONTRACT NO. DH12-002

SHEET TITLE: SOUTH FERRY DOCK BULLRAIL DETAILS

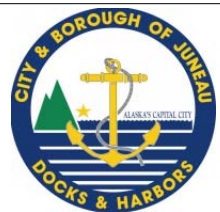
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DATE: 6/06/12

3.12 SHEET 30 OF 38



**1 OVERALL SITE PLAN**



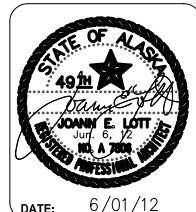
**Jensen Yorba Lott** ARCHITECTURE  
 INTERIORS  
 CONSTRUCTION  
 MANAGEMENT  
 Inc. 522 West 10th Street, Juneau, Alaska 99801  
 Phone 907-586-1070 www.jensenyorbalo.com

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

DESIGN: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_

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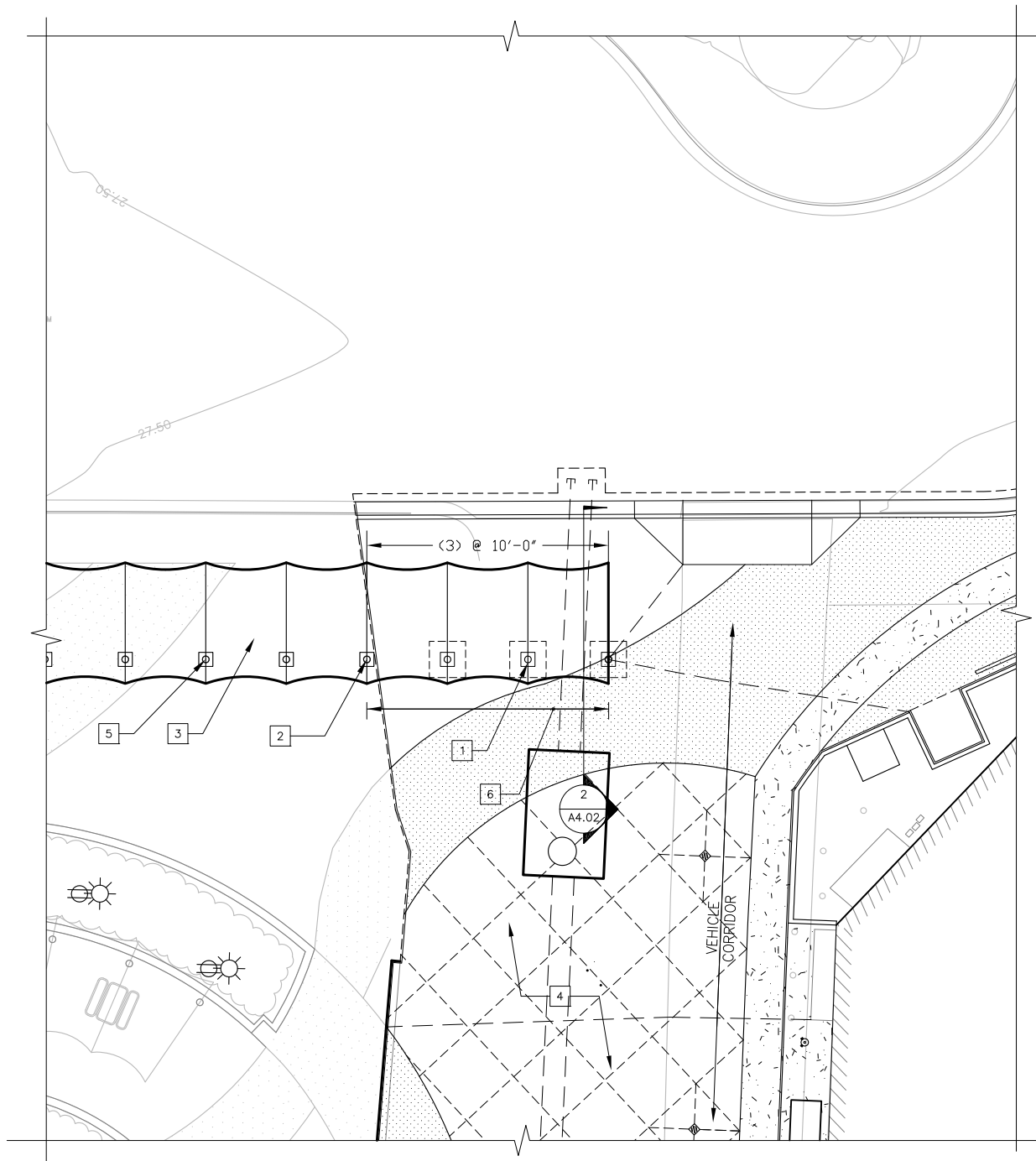
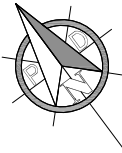


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
**CONTRACT NO. DH12-002**

SHEET TITLE:  
**OVERALL SITE PLAN**

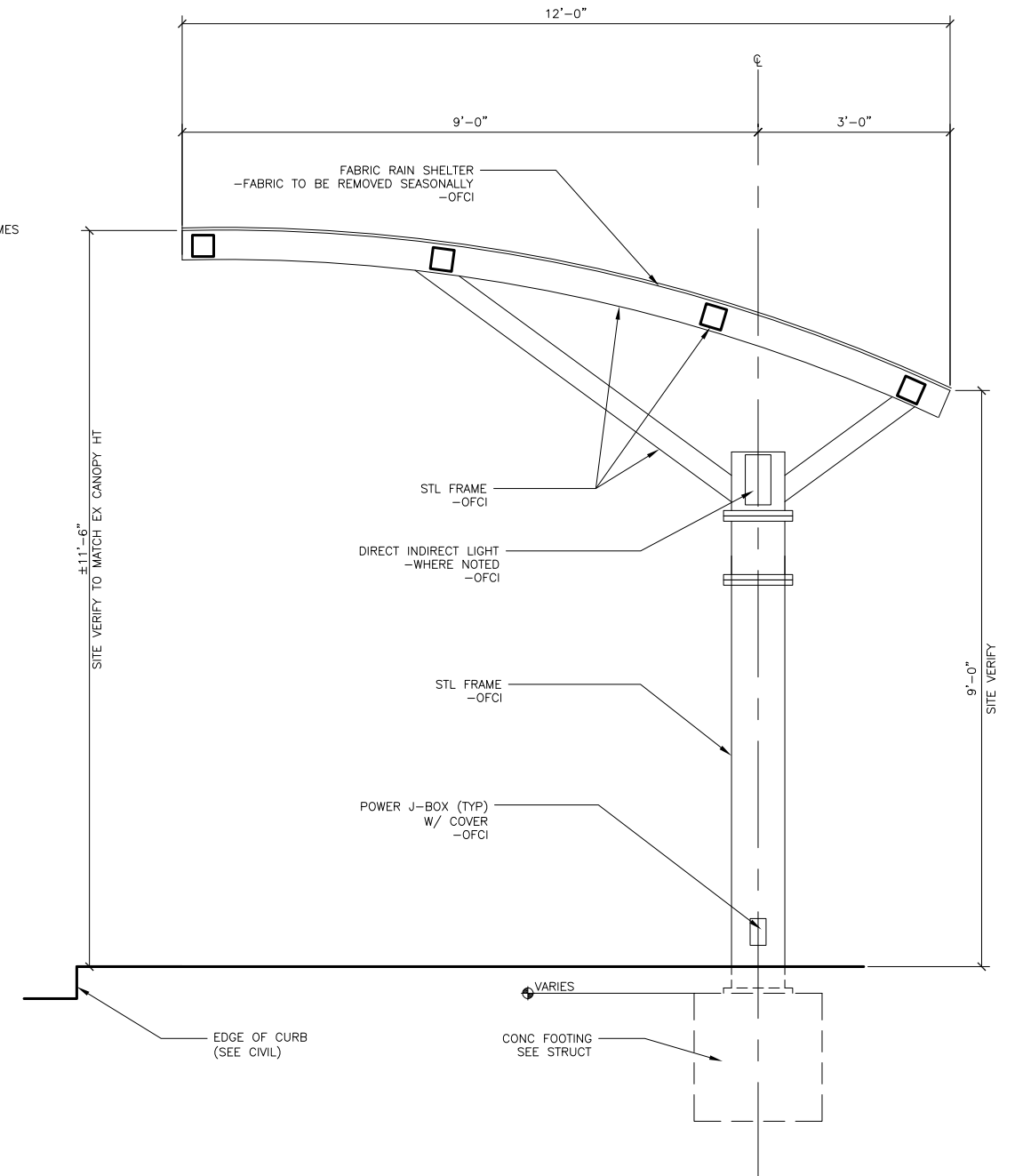
PND PROJECT NO.: 102081 DWG. FILE:

**A4.01**  
 SHEET  
 31 OF 38



**KEY NOTES**

- 1 LIGHTS  
-1 EACH POST (SEE ELEC)
- 2 ALIGN CANOPY FRAME WITH EXISTING CANOPY FRAME
- 3 INSTALL FABRIC RAIN SHELTER OVER EXISTING & NEWLY INSTALLED BUS CANOPY FRAME  
-12 BAYS  
-OFCI
- 4 CONCRETE DECK
- 5 EXISTING BUS CANOPY FRAME
- 6 EXTEND BUS CANOPY FRAME  
-INSTALL (3) FOOTINGS & (3) STEEL CANOPY FRAMES  
-STEEL FRAMES OFCI



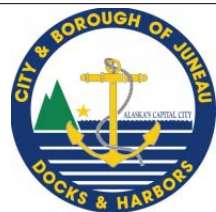
1 ENLARGED SITE PLAN - BUS CANOPY

SCALE: 0' 5' 10' 20'



2 BUS CANOPY SECTION

SCALE: 0 1' 2' 4'



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 INTERIORS  
 CONSTRUCTION MANAGEMENT  
 Inc. 522 West 10th Street, Juneau, Alaska 99801  
 Phone 907-586-1070 www.jensenyorbaltott.com

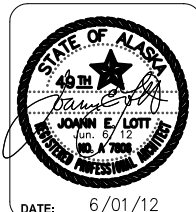
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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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SCALE: \_\_\_\_\_

DATE: 6/01/12

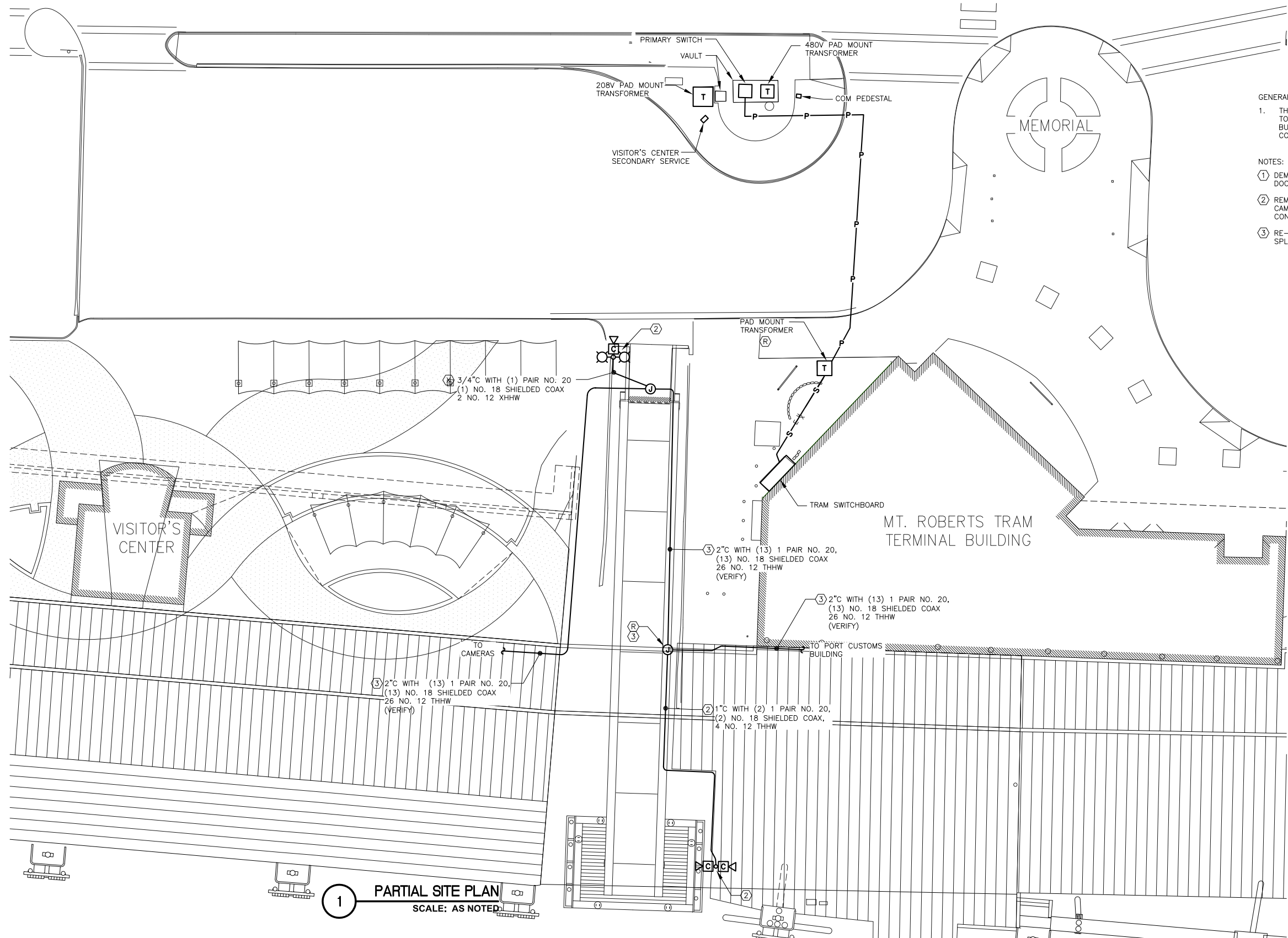
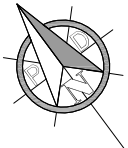


**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
**CONTRACT NO. DH12-002**

SHEET TITLE: **BUS CANOPY ENLARGED PLAN AND SECTION**

PND PROJECT NO.: 102081 DWG. FILE: \_\_\_\_\_

**A4.02**  
 SHEET 32 OF 38



- GENERAL NOTES:
1. THE UTILITY COMPANY IS RESPONSIBLE FOR ALL WORK REQUIRED TO RELOCATE THE PAD MOUNTED TRANSFORMER NEAR THE TRAM BUILDING. THE WORK WILL BE ACCOMPLISHED UNDER SEPARATE CONTRACT BETWEEN THE CBJ AND THE UTILITY COMPANY.
- NOTES:
- 1 DEMOLISH POLE AND LUMINAIRES. REMOVE CAMERA AND DELIVER TO CBJ DOCKS AND HARBORS.
  - 2 REMOVE POLE AND DELIVER TO CBJ DOCKS AND HARBORS. RELOCATE CAMERAS TO LIGHT POLE AS INDICATED ON DRAWING E6.02. RE-ROUTE CONDUIT AND WIRING AS REQUIRED.
  - 3 RE-ROUTE CONDUIT UNDER NEW DECK AS SHOWN ON DRAWING E6.02. SPLICE EXISTING CABLES IN RELOCATED JUNCTION BOX.

1 PARTIAL SITE PLAN  
SCALE: AS NOTED

**LEGEND**

UON	UNLESS OTHERWISE NOTED
XFMR	TRANSFORMER
(R)	RELOCATE
●	EXTERIOR POLE MOUNTED LUMINAIRE
T	TRANSFORMER
□	LIGHTING CONTACTOR
⊙	JUNCTION BOX
—P—	PRIMARY POWER
—S—	SECONDARY POWER

Jun 05, 2012 9:37am F:\Projects\1317 PND\00 CBJ Cruise Ship Terminal Uploads\Drawings\Working\E6.01.dwg (Layout tab)



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

**REVISIONS**

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DESIGN: PEL/BJB CHECKED: BJB  
DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_

SCALE: SCALE IN FEET  
0 15 30 FT.

**ELECTRONIC**

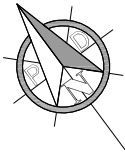
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**CRUISE SHIP TERMINAL STAGING AREA IMPROVEMENTS**  
CONTRACT NO. DH12-002

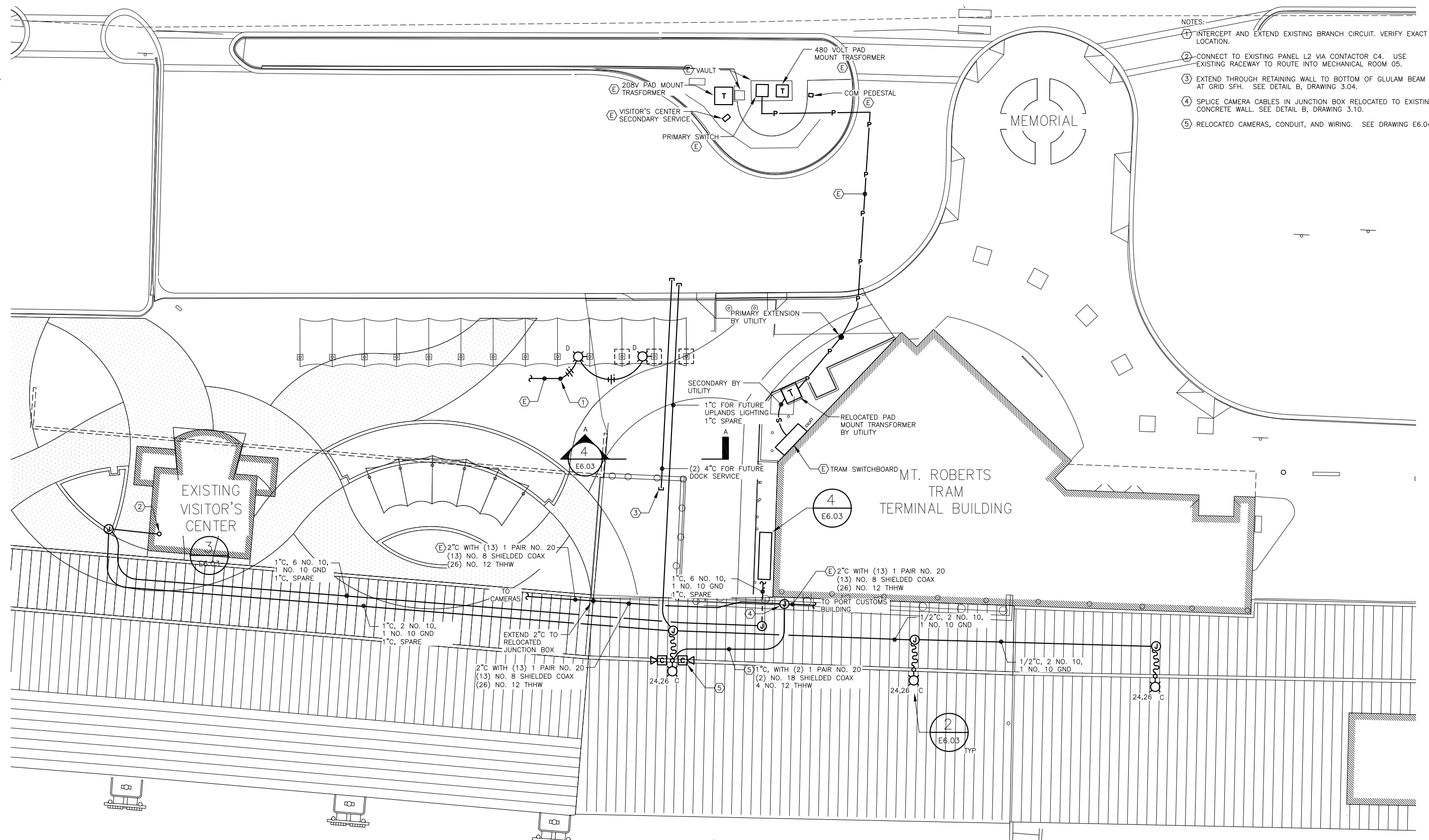
SHEET TITLE: **EXISTING PARTIAL SITE PLAN**

PND PROJECT NO.: 102081 DWG. FILE: \_\_\_\_\_

**E6.01**  
SHEET X OF 38



- NOTES:
- 1 INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT. VERIFY EXACT LOCATION.
  - 2 CONNECT TO EXISTING PANEL L2 VIA CONTACTOR C4. USE EXISTING RACEWAY TO ROUTE INTO MECHANICAL ROOM 05.
  - 3 EXTEND THROUGH RETAINING WALL TO BOTTOM OF GLULAM BEAM AT GRID SFH. SEE DETAIL B, DRAWING 3.04.
  - 4 SPLICE CAMERA CABLES IN JUNCTION BOX RELOCATED TO EXISTING CONCRETE WALL. SEE DETAIL B, DRAWING 3.10.
  - 5 RELOCATED CAMERAS, CONDUIT, AND WIRING. SEE DRAWING E6.04.



1 PARTIAL SITE PLAN  
SCALE: AS NOTED

Jun 05, 2012 9:35am F:\Projects\1317 PND\000 CBU Cruise Ship Terminal Uplands\Drawings\Working\E6.02.dwg (Layout tab)



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Fax: 907-586-2099  
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DESIGN: PEL/BJB CHECKED: BJB  
DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_

SCALE: SCALE IN FEET  
0 15 30 FT.

**ELECTRONIC**  
STATE OF ALASKA  
49th  
Brydon  
REGISTERED PROFESSIONAL  
SIGNATURE  
DATE: 6/6/12

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

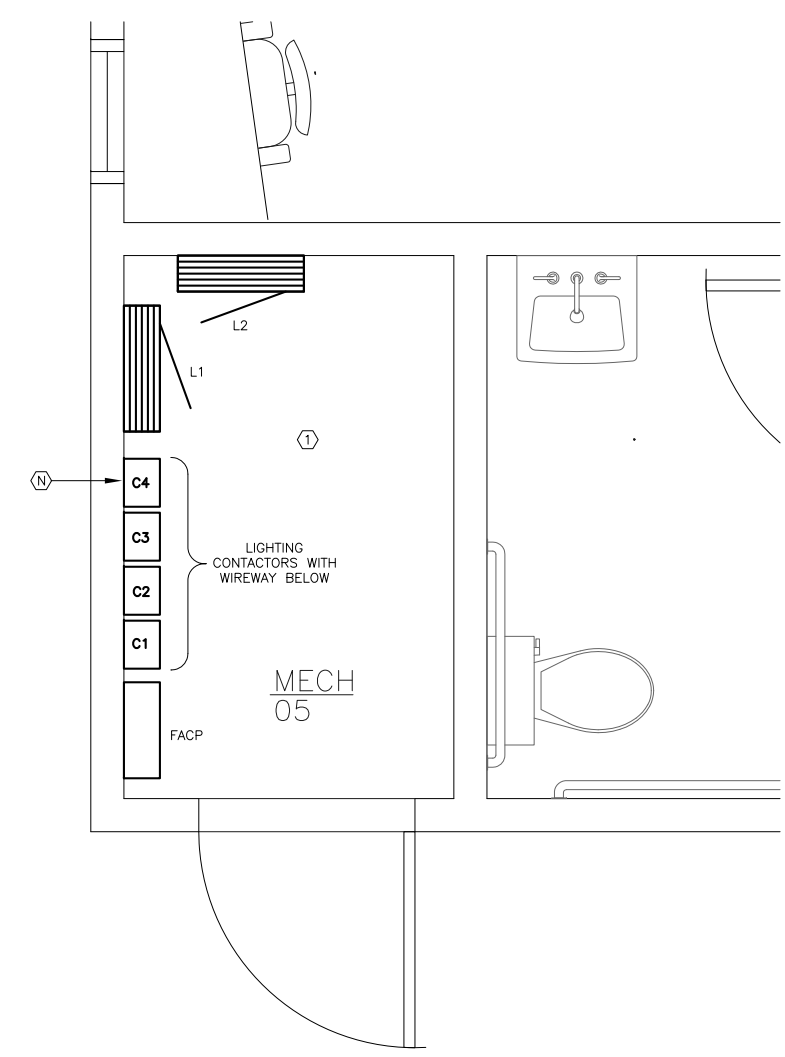
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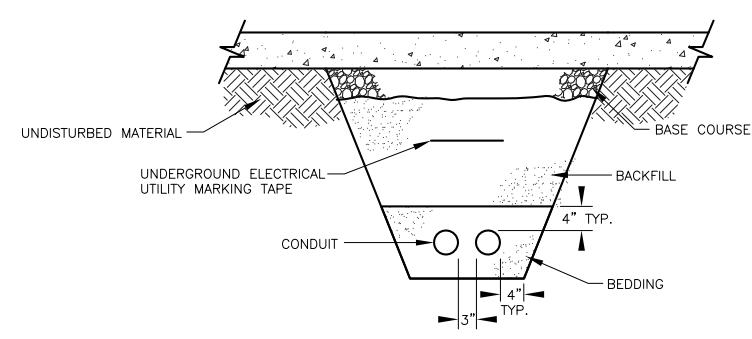
**E6.02**  
SHEET X OF 38



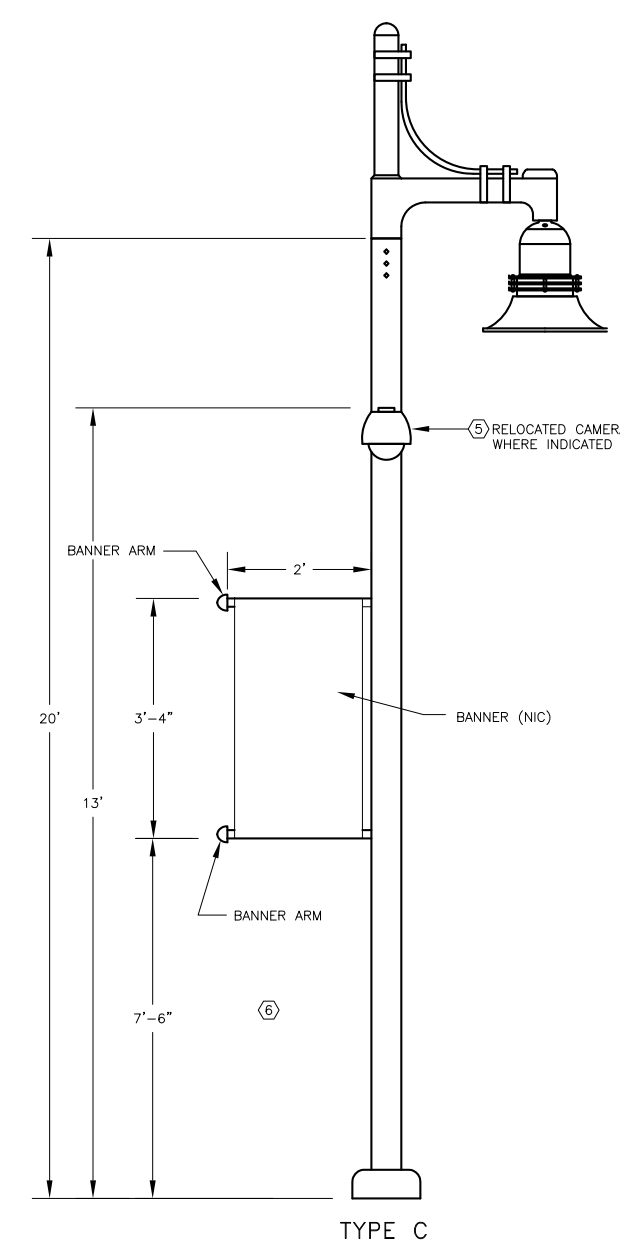
- NOTES:
- EQUIPMENT IN MECHANICAL 05 IS EXISTING, UON.
  - ELECTRIC HEATER: 208V, 1 PHASE, 1.9KW. PROVIDED WITH DOMESTIC WATER METER ENCLOSURE.
  - 1/2" CONDUIT TO REMOTE METER READER POST FOR FUTURE HEAT TRACE AMBIENT SENSOR WIRING. SEE DRAWING 2.05.
  - 1/2" CONDUIT TO REMOTE METER READER POST FOR METER CONTROL WIRING. SEE DRAWING 2.05.
  - OBTAIN MOUNTING INSTRUCTIONS FROM OWNER.
  - TYPE C LUMINAIRE IS SPECIFIED TO MATCH EXISTING UNITS. VERIFY EXACT CATALOG NUMBER WITH DISTRIBUTOR.



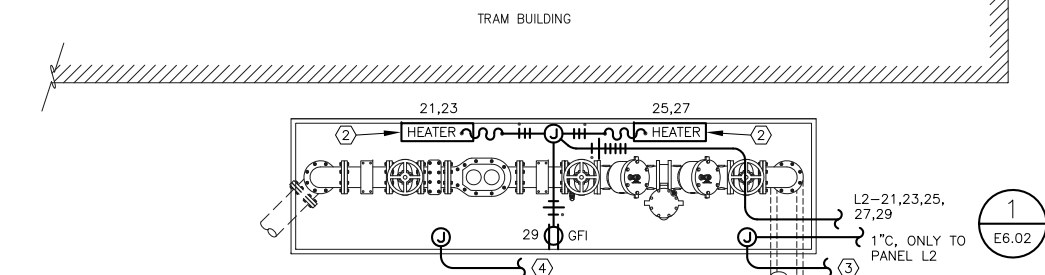
**3 ENLARGED MECHANICAL 05**  
SCALE IN FEET  
0 1 2 FT.



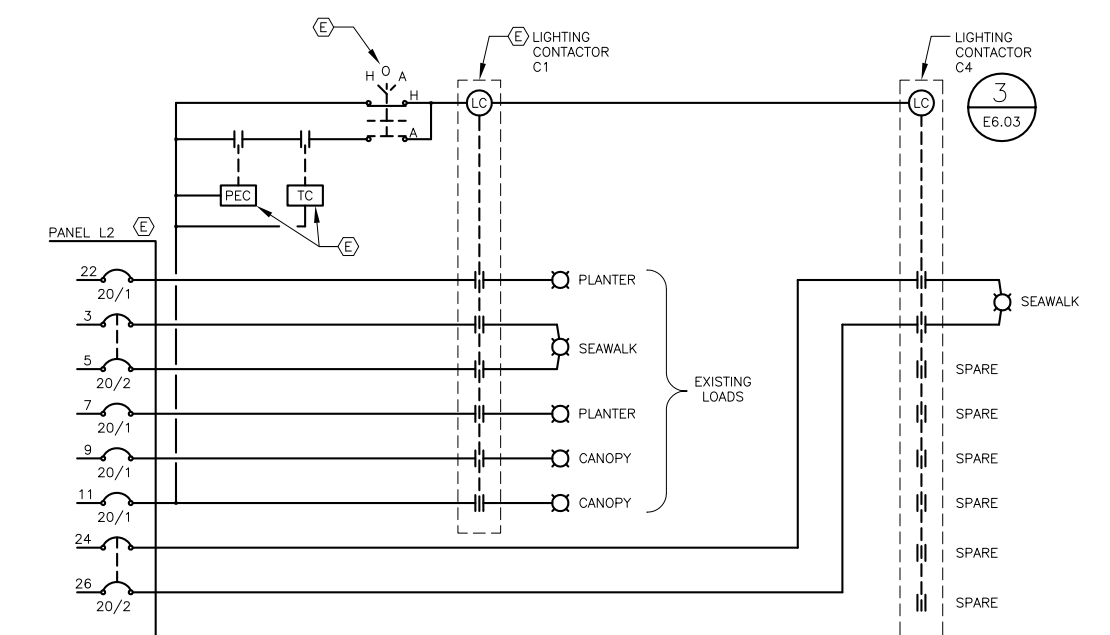
**4 TRENCH - SECONDARY**  
NO SCALE



**2 DETAIL - TYPE C LUMINAIRE**  
NO SCALE



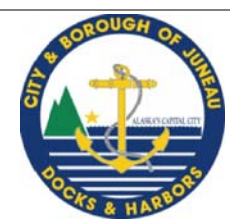
**4 DETAIL - DOMESTIC WATER METER ENCLOSURE**  
NO SCALE



**1 SCHEMATIC - EXTERIOR LIGHTING CONTROLS**  
NO SCALE

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
C	POLE MOUNTED DECORATIVE HID AREA LIGHT, CAST ALUMINUM TOP HOUSING, SOLID RINGS MID SECTION, FLUTE ALUMINUM SHADE, FLAT FROSTED GLASS LENS, TYPE II DISTRIBUTION, TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED UPPER BAR, 20"x4" DIA ROUND STRAIGHT ALUMINUM POLE WITH POWDER COAT FINISH TO MATCH, BLACK FINISH, WITH BANNER ARM	INVUE EML-150-HPS-208-2S-SG-SR-FL-BK VA6110-BK ARM ARX-ST12-NGN4 POLE	(1) 150W HPS 1900K, CRI 22	SEE DETAIL 2, DRAWING E6.03. PROVIDE ADDITIONAL HANDHOLE FOR CAMERA.
D	DECORATIVE POST MOUNTED LIGHT			PROVIDED BY CANOPY MANUFACTURER

Jun 05, 2012 10:25am F:\Projects\1317\_PND\00\_CBU\_Cruise\_Ship\_Terminal\_Uploads\Drawings\Working\E6.03.dwg (Layout1.tab)



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

DESIGN: PEL/BJB CHECKED: BJB  
DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_

SCALE: **AS NOTED**

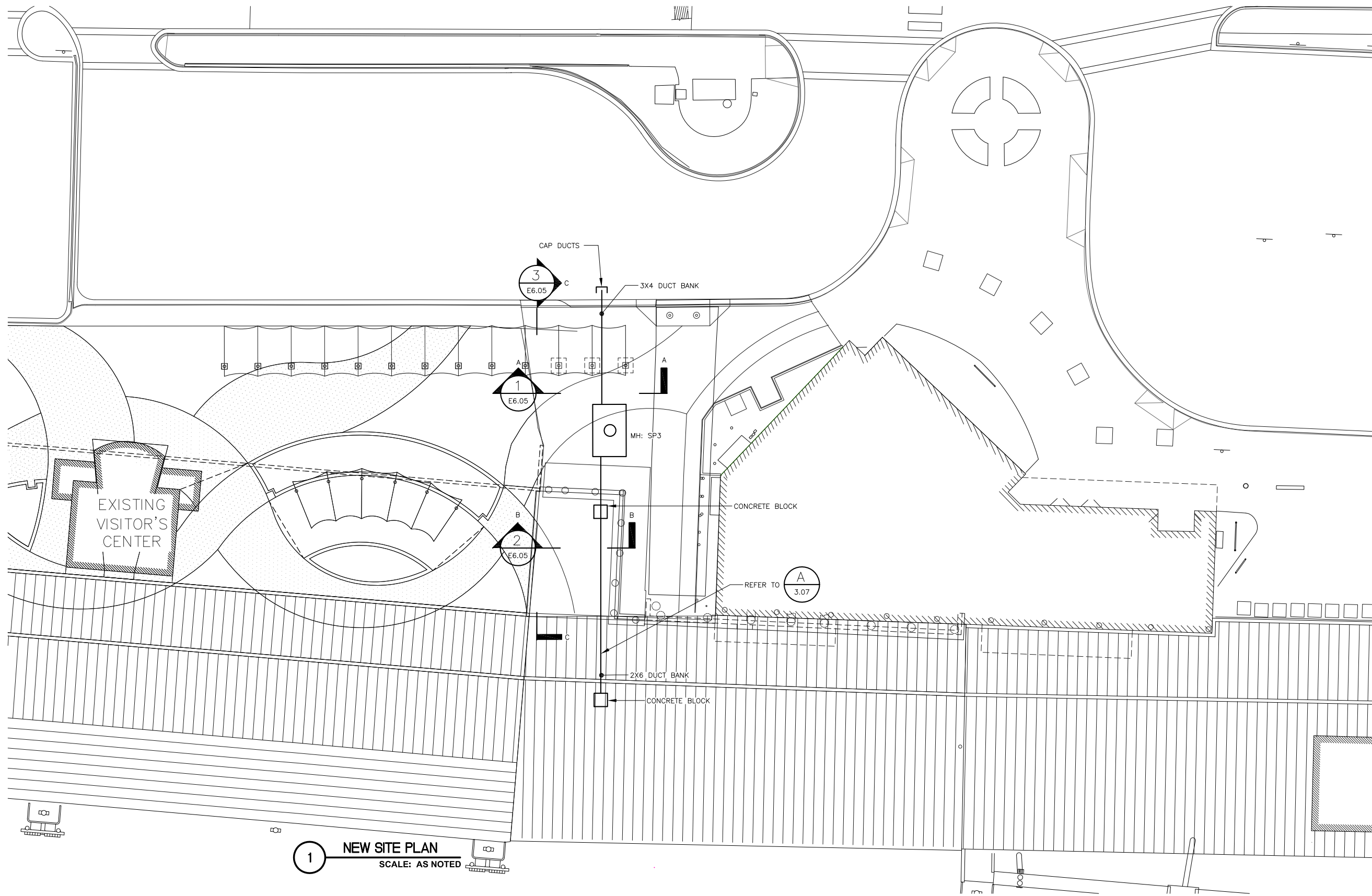
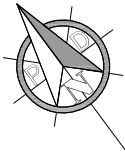
**ELECTRONIC**  
STATE OF ALASKA  
49th  
Professional Engineer  
No. 10453  
DATE: 6/6/12

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

SHEET TITLE: **DETAILS**

PND PROJECT NO.: 102081 DWG. FILE:

**E6.03**  
SHEET X OF 38



1 NEW SITE PLAN  
SCALE: AS NOTED

Jun 05, 2012 3:35pm F:\Projects\1317 PND\00 CBU Cruise Ship Terminal Upgrades\Drawings\Working\E6.04.dwg (Layout tab)



**HAIGHT & ASSOCIATES**  
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(907) 586-9788

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DESIGN: PEL/BJB CHECKED: BJB  
DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_

SCALE: SCALE IN FEET  
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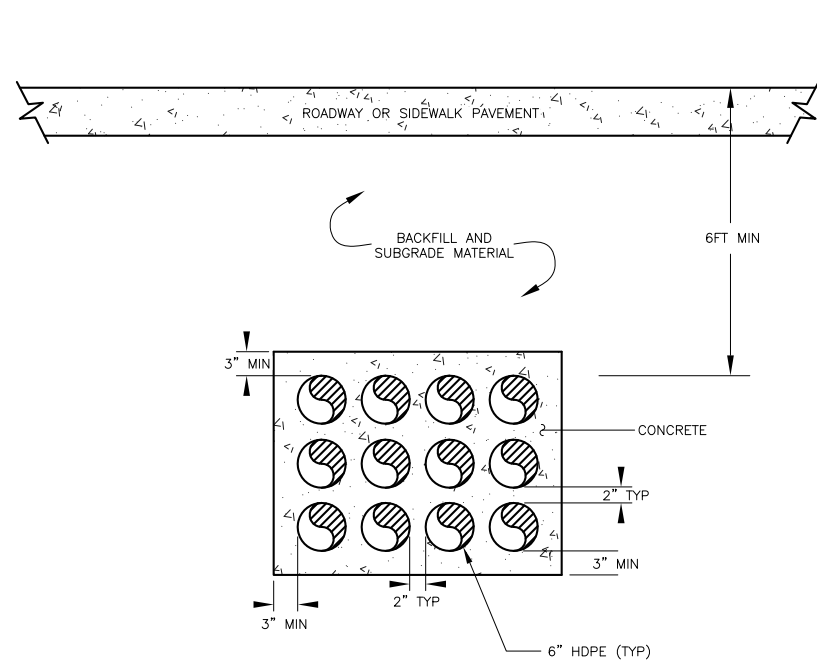
**ELECTRONIC**  
STATE OF ALASKA  
B.C. HAIGHT  
EE 4800  
SIGNATURE  
DATE: 6/6/12

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

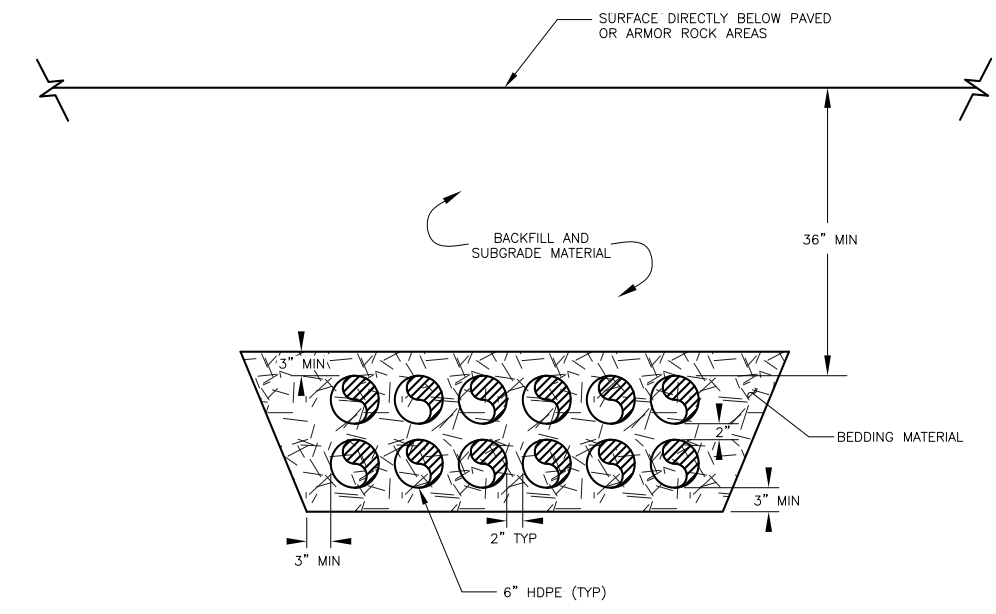
SHEET TITLE:  
**PRIMARY RACEWAY SITE PLAN**

PND PROJECT NO.: 102081 DWG. FILE:

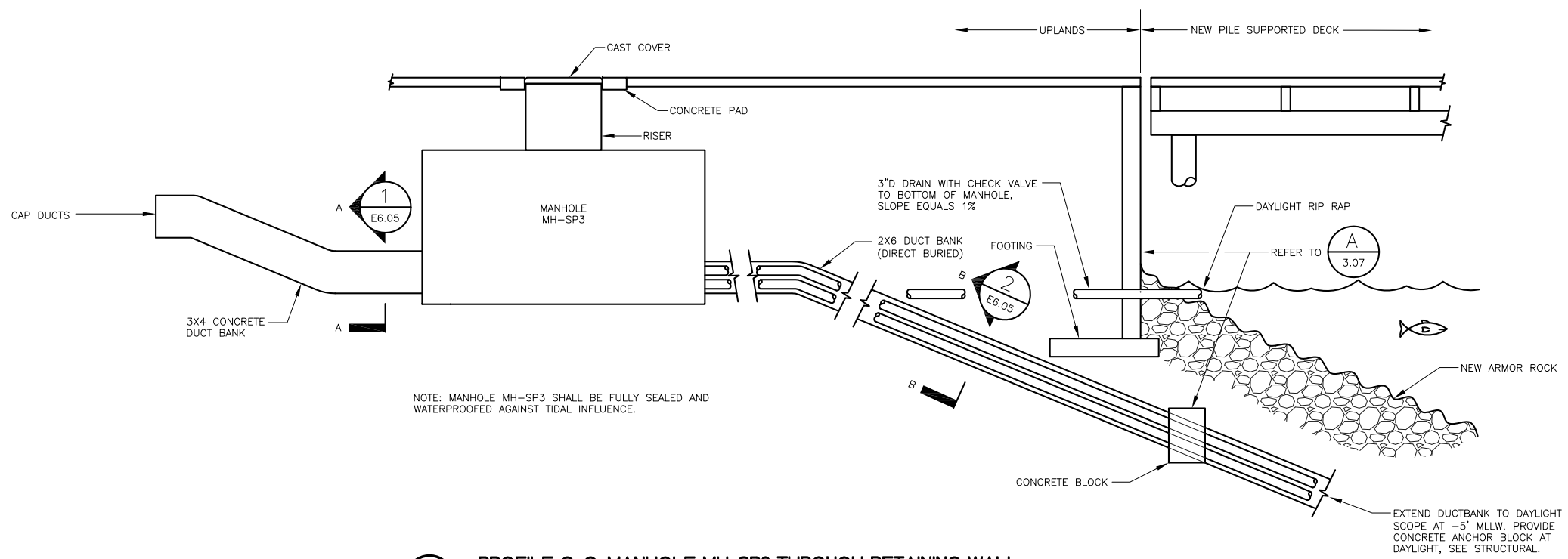
**E6.04**  
SHEET X OF 38



**1** SECTION A-A: CONCRETE 3x4 DUCTBANK  
NO SCALE

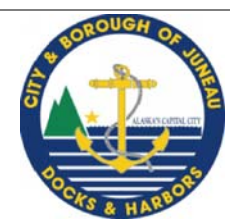


**2** SECTION B-B: CONCRETE 2x6 DUCTBANK  
NO SCALE



**3** PROFILE C-C: MANHOLE MH-SP3 THROUGH RETAINING WALL  
NO SCALE

Jun 05, 2012 3:41pm F:\Projects\1317 PND\00 CBU Cruise Ship Terminal Uplands\Drawings\Working\E6.05.dwg (Layout1.tab)



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DESIGN: PEL/BJB CHECKED: BJB  
DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_

SCALE: **AS NOTED**

**ELECTRONIC**  
SIGNATURE  
DATE: 6/6/12

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

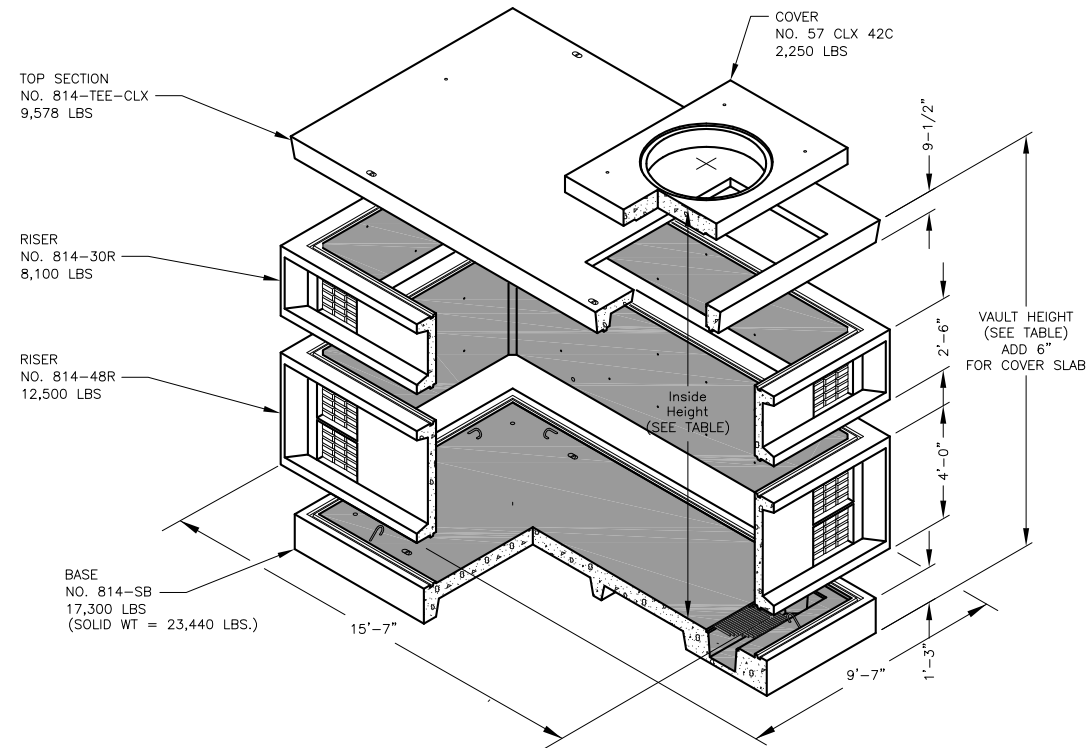
SHEET TITLE: **DUCTBANK DETAILS**

PND PROJECT NO.: 102081 DWG. FILE:

**E6.05**  
SHEET X OF 38

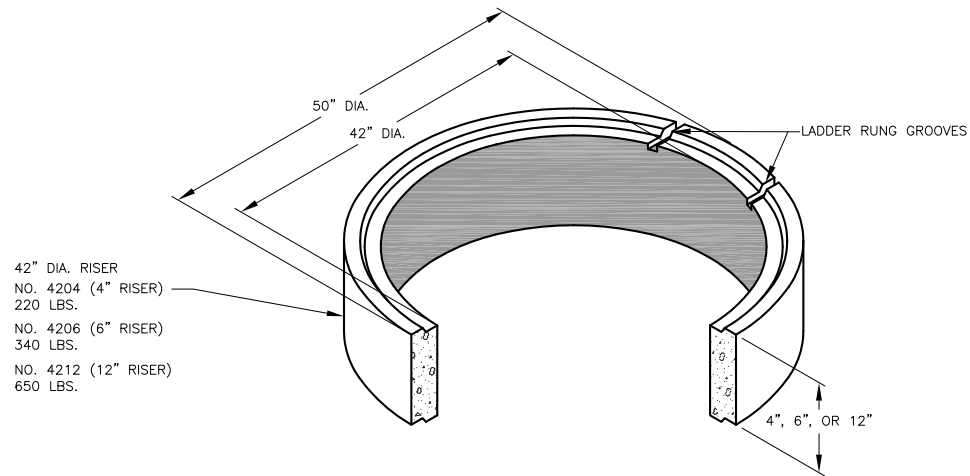
VAULT NO.	INSIDE HEIGHT	814-30R RISERS	814-48R RISERS	*OUTSIDE HEIGHT	*VAULT WEIGHT
814-8-LA	8'-0"		2	10'-0 1/2"	51,700 LBS.

\* 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

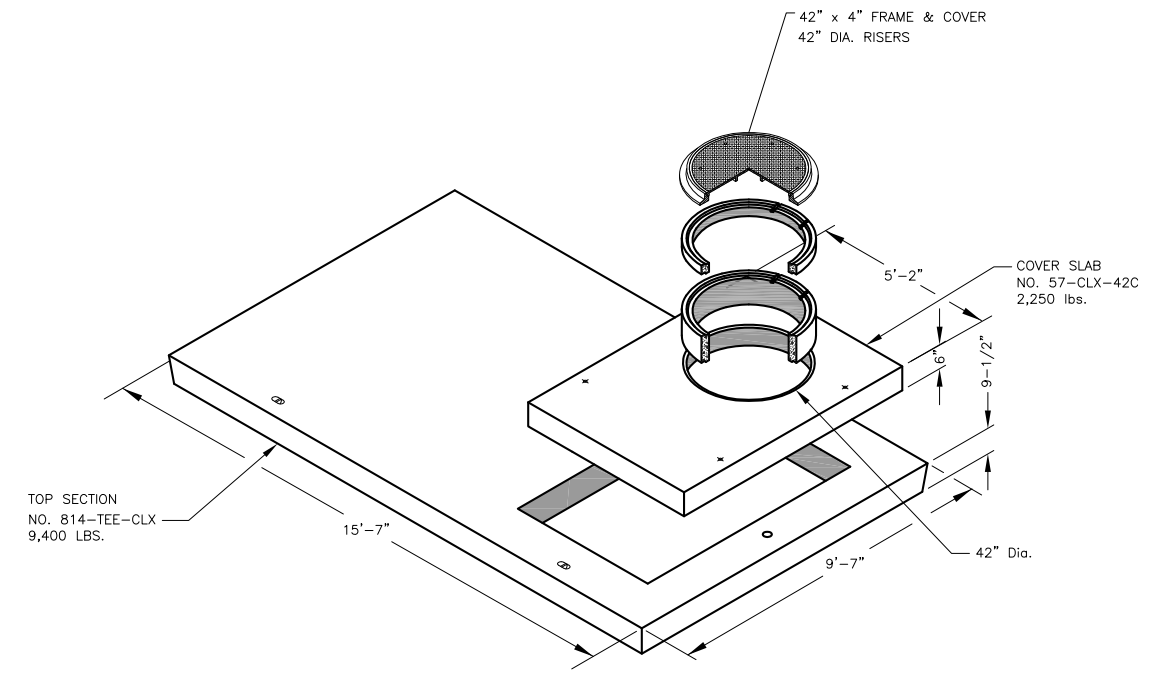


1 MANHOLE MH-SP3 NO SCALE

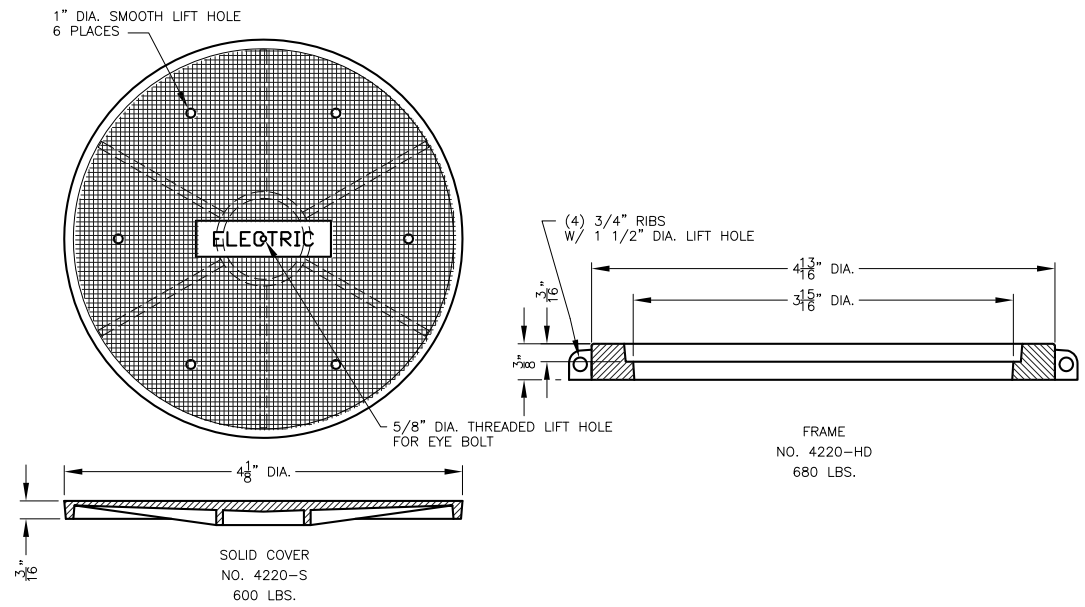
NOTE: PROVIDE FULLY SEALED AND WATERPROOFED ASSEMBLY WITH 3"D DRAIN AND CHECK VALVE.



4 ROUND RISER FOR MH-SP3 NO SCALE



2 MANHOLE MH-SP3 COVER NO SCALE



3 SOLID COVER FOR MH-SP3 NO SCALE

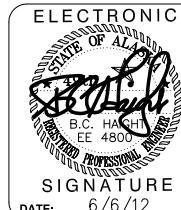
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DESIGN: PEL/BJB CHECKED: BJB SCALE: AS NOTED  
 DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_



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

SHEET TITLE: MANHOLE DETAILS  
 SHEET NO. E6.06 OF 38  
 PND PROJECT NO.: 102081 DWG. FILE: