

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S O U T H E A S T R E G I O N



LOCATION MAP



**PROJECT SUMMARY**  
**HAINES FERRY**  
**TERMINAL IMPROVEMENTS**

PROJECT NO. 68433 / 0955014

COVER SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES
3	PROJECT LAYOUT
4	SURVEY CONTROL
5	PROPERTY EXHIBIT

AS-BUILTS  
CONTRACTOR: WESTERN MARINE CONSTRUCTION  
START DATE: MARCH 30, 2015  
COMPLETION DATE: AUGUST 2, 2016  
PROJECT ENGINEER: KERI WILLIAMSON

The Following Standard Drawings  
Apply To This Project:

A-1	D-23.01	G-10.01	S-00.11
C-03.10	D-26.02	G-13.00	S-05.01
C-04.12	D-35.00	G-25.21W	S-20.10
D-01.02	E-13.00	I-20.14	S-30.03
D-04.21	G-00.02	I-22.02	T-20.03
D-22.01	G-04.10W	I-30.10	T-21.03
	G-04.10S	L-23.01	T-22.03



VICINITY MAP



EXISTING TERMINAL SITE

TIDAL DATA	
EHW	+22.5'
HTL	+21.2'
MHW	+15.8'
MLLW	0.0'
ELW	-6.0'

**PROJECT CONSISTS OF:**

**Planset A - Ferry Terminal Uplands & Dredging**

WORK SUMMARY: This portion of the project shall consist of the excavation of retained fill material & removal of sheet pile cells, dredging & disposal of marine sediments, embankment construction, retaining wall construction, riprap slope protection, and reconfiguring existing paved staging & parking areas.

**Planset B - Marine Structures**

WORK SUMMARY: This portion of the project shall consist of the construction of five (5) new mooring dolphins and seven (7) new access catwalks.

**Planset C - Generator & Storage Buildings**

WORK SUMMARY: This portion of the project shall consist of the removal & replacement of the Generator & Storage Buildings.

**Planset E - Electrical Systems (Uplands & Marine)**

WORK SUMMARY: This portion of the project shall consist of improvements to the electrical systems at the uplands and marine facilities including replacement of the electrical and telephone utility services, electrical for a new generator building including a new standby generator, relocation of the synchro lift control panel and equipment, new feeders to the terminal building, new lighting in the uplands, electrical for a new storage building, and other improvements.

Record Drawings have been reviewed  
by the Project Engineer, and represent  
to the best of my knowledge, the  
project as constructed.

PE *Keri Williamson* Date 12/13/16

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	
APPROVED <i>[Signature]</i> REGIONAL PRECONSTRUCTION ENGINEER L. PAT CARROLL, P.E.	Date 1/24/14
APPROVED <i>[Signature]</i> DIRECTOR, S.E. REGION ALBERT H. CLOUGH, CPG	Date 1.24.2014
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:	
CONSTRUCTION PROJECT MANAGER	
PROJECT NUMBER: 68433/0955014	
DATE: JANUARY, 2014	
SHEET 1 OF 5	

1.24.14

ESTIMATE OF QUANTITIES			
ITEM #	ITEM DESCRIPTION	PAY UNIT	QTY.
BASIC BID			
201 (3A)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202 (13)	TERMINAL CLOSURE PRICE WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
202 (14)	REMOVAL OF EXISTING SHEET PILE COFFER DAMS	LUMP SUM	ALL REQUIRED
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	53,000
203 (6)	BORROW, TYPE B	CUBIC YARD	8,000
203 (19)	DREDGING EXCAVATION	CUBIC YARD	14,000
203 (20)	REGRADE EXISTING UPLANDS	LUMP SUM	ALL REQUIRED
203 (21)	EPS GEOFOAM	CUBIC FOOT	14,750
208 (1)	GROUND ANCHORS	EACH	21
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	7,250
401 (1)	ASPHALT CONCRETE, TYPE II, CLASS B	TON	2,500
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	TON	155
401 (6)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	5
404 (3)	CSS-1H ASPHALT FOR FOG SEAL	TON	50
405 (2)	AGGREGATE FOR SURFACE TREATMENT, GRADING F	TON	280
405 (3)	CRS-2P ASPHALT FOR SURFACE TREATMENT	TON	10
501 (1)	PCC PAVEMENT	CUBIC YARD	130
501 (2)	BULKHEAD CAP RECONSTRUCTION	CUBIC YARD	68
504 (1)	4-PILE MOORING DOLPHIN CAP (W3-6)	EACH	4
504 (2)	4-PILE MOORING DOLPHIN FENDER SYSTEM (W3-6)	EACH	4
504 (3)	RELOCATE EXISTING 3.5' X 32' STEEL CATWALK	EACH	1
504 (4)	3.5' X 44' STEEL CATWALK	EACH	1
504 (5)	3.5' X 57' STEEL CATWALK	EACH	3
504 (6)	3.5' X 97' STEEL CATWALK	EACH	1
504 (7)	TERMINAL BUILDING RETAINING WALL	LUMP SUM	ALL REQUIRED
504 (8)	BULKHEAD RETAINING WALL	LUMP SUM	ALL REQUIRED
504 (9)	APRON FINGER AND TRANSITION PLATE HINGE REPLACEMENT	LUMP SUM	ALL REQUIRED
505 (1)	30" X 1/2" WALL PIPE PILE, FURNISHED	LINEAR FOOT	1,649
505 (2)	30" X 1/2" WALL PIPE PILE, DRIVEN	EACH	16
505 (3)	24" X 1/2" WALL PIPE PILE, FURNISHED	LINEAR FOOT	630
505 (4)	24" X 1/2" WALL PIPE PILE, DRIVEN	EACH	12
505 (7)	150 LB PILE ANODE	EACH	51
505 (8)	DRILLED ROCK SOCKET	EACH	7
515 (1)	CATHODIC PROTECTION SYSTEM DESIGN	LUMP SUM	ALL REQUIRED
515 (2)	CATHODIC PROTECTION SYSTEM	LUMP SUM	ALL REQUIRED
518 (1)	TENSION PILE ANCHORS	EACH	16
603 (9)	24 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	160
603 (10)	3'-9" X 5'-2" CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	8
603 (21)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	117
603 (22)	4" PVC PIPE	LINEAR FOOT	49
604 (4)	ADJUST EXISTING MANHOLE	EACH	2
604 (5A)	INLET, TYPE A	EACH	4
604 (5B)	INLET, TYPE 1	EACH	1
604 (8)	REPLACE EXISTING INLET FRAME & GRATE	EACH	2
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	1635
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	630
606 (9)	CONTROLLED RELEASE TERMINAL (CRT)	EACH	1
606 (13)	RECONSTRUCT END TREATMENT	EACH	5
607 (3)	8' CHAIN LINK FENCE	LINEAR FOOT	60
607 (6)	WALK GATE	EACH	3
607 (7)	20' WIDE SNOW GATE	EACH	3
608 (1A)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	1250
608 (1B)	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	160
608 (7)	CURB RAMPS	LUMP SUM	ALL REQUIRED
609 (2A)	CURB AND GUTTER, TYPE A	LINEAR FOOT	850
609 (2B)	CURB AND GUTTER, TYPE B	LINEAR FOOT	255
609 (2C)	CURB AND GUTTER, TYPE C	LINEAR FOOT	175
611 (1A)	RIPRAP, CLASS I	CUBIC YARD	4,600
611 (1B)	RIPRAP, CLASS IV	CUBIC YARD	12,500
615 (7)	STANDARD SIGNS	LUMP SUM	ALL REQUIRED
618 (4)	SEEDING	LUMP SUM	ALL REQUIRED
620 (2)	TOPSOIL	LUMP SUM	ALL REQUIRED
625 (2)	SAFETY HAND RAIL	LINEAR FOOT	140
625 (3)	PEDESTRIAN HAND RAIL	LINEAR FOOT	350
628 (1)	UNDERGROUND FUEL TANK REMOVAL	LUMP SUM	ALL REQUIRED
628 (2)	1000 GAL ABOVEGROUND FUEL TANK	LUMP SUM	ALL REQUIRED
628 (3)	CONTAMINATED SOIL REMOVAL/REMEDIATION	CONTINGENT SUM	ALL REQUIRED
640 (1)	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640 (4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (5)	TEMPORARY EROSION SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES (CONTD.)			
ITEM #	ITEM DESCRIPTION	PAY UNIT	QTY.
BASIC BID (CONTINUED)			
641 (6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641 (7A)	SILT CONTAINMENT BOOM - EAST	LUMP SUM	ALL REQUIRED
641 (7B)	SILT CONTAINMENT BOOM - WEST	LUMP SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING (UPLANDS)	LUMP SUM	ALL REQUIRED
642 (2)	CONSTRUCTION SURVEYING (MARINE)	LUMP SUM	ALL REQUIRED
642 (3A)	THREE PERSON SURVEY PARTY	CONTINGENT SUM	ALL REQUIRED
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
645(1)	TRAINING PROGRAM	LABOR HOUR	500
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
682 (1)	ELECTRICAL SYSTEM (UPLANDS)	LUMP SUM	ALL REQUIRED
682 (2)	ELECTRICAL SYSTEM (MARINE)	LUMP SUM	ALL REQUIRED
682 (3)	ELECTRICAL GENERATOR	LUMP SUM	ALL REQUIRED
670 (1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
695 (1)	STORAGE BUILDING	LUMP SUM	ALL REQUIRED
695 (2)	GENERATOR BUILDING	LUMP SUM	ALL REQUIRED
695 (3)	COVERED WALKWAY #1	LUMP SUM	ALL REQUIRED
695 (4)	COVERED WALKWAY #2	LUMP SUM	ALL REQUIRED
695 (5)	PURSUERS SHELTER	LUMP SUM	ALL REQUIRED
695 (6)	WAITING SHELTER	LUMP SUM	ALL REQUIRED

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABUT	ABUTMENT
ACZA	AMMONIACAL COPPER ZINC ARSENATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALUM	ALUMINUM
AST	ABOVE GROUND FUEL STORAGE TANK
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ATS	ALASKA TIDELAND SURVEY
AWS	AMERICAN WELDING SOCIETY
BF	FLANGE WIDTH
BOP	BEGINNING OF PROJECT
BRG	BEARING
BTM	BOTTOM
BTWN	BETWEEN
C	STRUCTURAL STEEL CHANNEL
C-BORE	COUNTERBORE
C/C	CENTER TO CENTER
CF	CROSS FRAME
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CL	CENTERLINE
CLR	CLEAR
CNTR	CENTER
CONC	CONCRETE
CONN	CONNECTION
CS	CONTINGENT SUM
CTSK	COUNTERSINK
CU	CUBIC
CVN	CHARPY V-NOTCH
D	WEB DEPTH
DBL	DOUBLE
DESC	DESCRIPTION
DL	DEAD LOAD
EA	EACH
ECON HD	ECONOMY HEAD
EHW	EXTREME HIGH WATER
ELEV	ELEVATION
ELW	EXTREME LOW WATER
EQ	EQUAL
EST	ESTIMATED
FB	FLAT BAR
FLNG	FLANGE
FS	FAR SIDE

**ABBREVIATIONS**

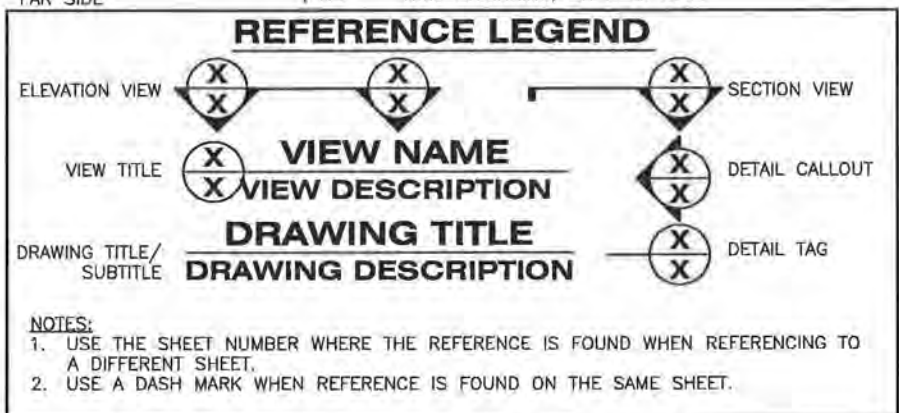
FF	FINISHED FLOOR ELEVATION	OC	ON CENTER	STD	STANDARD
GA	GAGE	OD	OUTSIDE DIAMETER	SYMM	SYMMETRIC
GALV	GALVANIZED	O/O	OUT TO OUT	T	THICK
GR	GRADE	OPP	OPPOSITE	T&B	TOP AND BOTTOM
H	GIRDER DEPTH	OR	OUTSIDE RADIUS	TF	FLANGE THICKNESS
HD	HEAD	ORTHO	ORTHOGONAL	TW	WEB THICKNESS
HDPE	HIGH DENSITY POLYETHYLENE PLASTIC	PEN	PENETRATION	TYP	TYPICAL
HP	STRUCTURAL STEEL H-SHAPED MEMBERS	PL	PLATE	UHMW	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
HRZ	HORIZONTAL	PLCS	PLACES	UON	UNLESS OTHERWISE NOTED
HSS	HOLLOW STRUCTURAL SECTION	QTY	QUANTITY	USS	UNITED STATES SURVEY
HT	HEIGHT	R	RADIUS	UST	UNDERGROUND FUEL STORAGE TANK
ID	INSIDE DIAMETER	REQ	REQUIRED	REQ'D	REQUIRED
IR	INSIDE RADIUS	RND	ROUND	S	STRUCTURAL STEEL H-SHAPED MEMBERS, OR SPACING
L	LENGTH OR STRUCTURAL STEEL ANGLE	SAE	SOCIETY OF AUTOMOTIVE ENGINEERS	WT	WEIGHT
LE	END DISTANCE	SEC	SECTION	SHT	SHEET
LF	LINEAR FOOT	MFR	MANUFACTURER	SP	SPACE
LW	LOAD INDICATING WASHER	MHHW	MEAN HIGHER HIGH WATER	SPCS	SPACES
LL	LIVE LOAD, OR LANE LOAD	MHW	MEAN HIGH WATER	SPCS	SPECIFICATIONS
LOA	LENGTH OVER ALL	MI	MALLEABLE IRON	SQR	SQUARE
LOC.	LOCATION(S)	MLLW	MEAN LOWER LOW WATER	SS	STAINLESS STEEL
LRFD	LOAD & RESISTANCE FACTOR DESIGN	MLW	MEAN LOW WATER	ST	STRUCTURAL STEEL TEES MADE FROM RESPECTIVE H-SHAPED MEMBERS
LS	LUMP SUM	MRK'D	MARKED	STA	STATION
M	STRUCTURAL STEEL H-SHAPED MEMBER	MT	STRUCTURAL STEEL TEES MADE FROM RESPECTIVE H-SHAPED MEMBERS		
MC	STRUCTURAL STEEL CHANNEL	MTL	MEAN TIDE LINE		
MFR	MANUFACTURER	NAD	NORTH AMERICAN DATUM		
MHHW	MEAN HIGHER HIGH WATER	NO	NUMBER		
MHW	MEAN HIGH WATER	NS	NON-SHRINKING, OR NEAR SIDE		

BASIS OF ESTIMATE		
ITEM #	ITEM DESCRIPTION	EST. FACTOR
401 (1)	ASPHALT CONCRETE, TYPE II; CLASS B	117 LBS / S.Y. / INCH
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	6% OF ITEM 401 (1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	3% OF ITEM 401 (2)
404 (3)	CSS-1H ASPHALT FOR FOG SEAL	0.1 GAL / S.Y.
405 (2)	AGGREGATE FOR SURFACE TREATMENT, GRADING F	25 LBS/S.Y.
405 (3)	CRS-2P ASPHALT FOR SURFACE TREATMENT	0.5 GAL / S.Y.
	AREA OF STAGING AREA 1 & PARKING LOT	20,500 S.Y.

ESTIMATE OF QUANTITIES (CONTD.)			
ITEM #	ITEM DESCRIPTION	PAY UNIT	QTY.
ALTERNATE A			
504 (10)	3-PILE MOORING DOLPHIN CAP (E5)	EACH	1
504 (11)	3.5' X 79' STEEL CATWALK	EACH	1
505 (5)	24" X 1/2" WALL PIPE PILE, FURNISHED	LINEAR FOOT	389
505 (6)	24" X 1/2" WALL PIPE PILE, DRIVEN	EACH	3
505 (7)	150 LB PILE ANODE	EACH	3
ALTERNATE B			
607 (3)	8' CHAIN LINK FENCE	LINEAR FOOT	2,610
607 (6)	WALK GATE	EACH	2
607 (8)	7' WIDE SWING GATE	EACH	2
607 (9)	22' WIDE SWING GATE	EACH	3
607 (10)	30' WIDE SWING GATE	EACH	2
607 (11)	60' WIDE DOUBLE SLIDE GATE	EACH	3

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16



DO NOT SCALE FROM THESE DR.

DESIGNED BY: STAFF

CHECKED BY: D. LOWELL

DRAWN BY: STAFF

PATH: Q:\MIS\68433\PLANSET\COVER SHEETS\12 - EST OF QTY.DWG

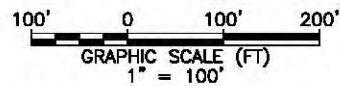
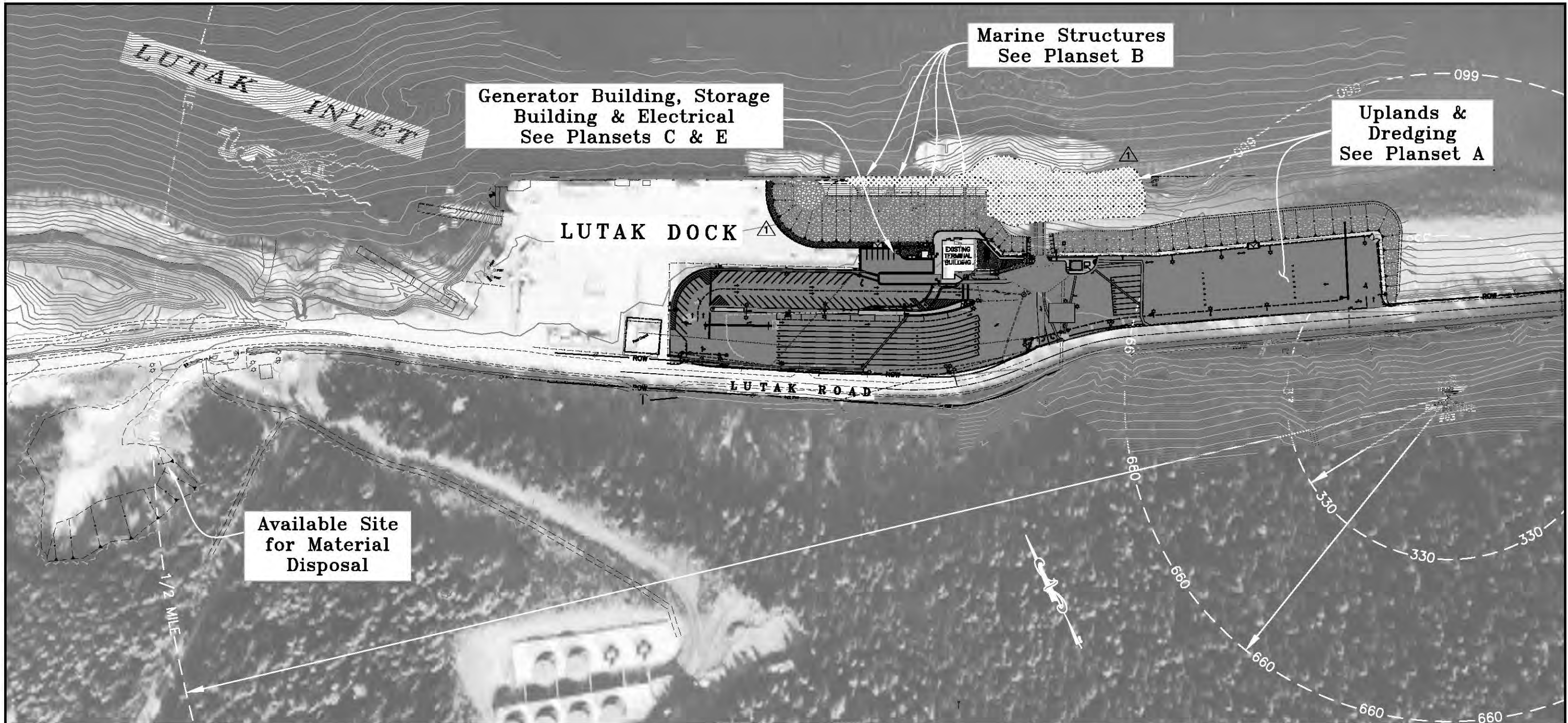
TAB: 2 Friday, April 04, 2014 12:29:24 PM LOWELL, DAVID H (DOT)

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

HAINES FERRY TERMINAL IMPROVEMENTS  
**COVER SHEETS**

**ESTIMATE OF QUANTITIES AND GENERAL NOTES**

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/10/14	UPDATED ESTIMATE	68433 / 0955014	2014	2	5



**PROJECT OVERVIEW**

**LEGEND**

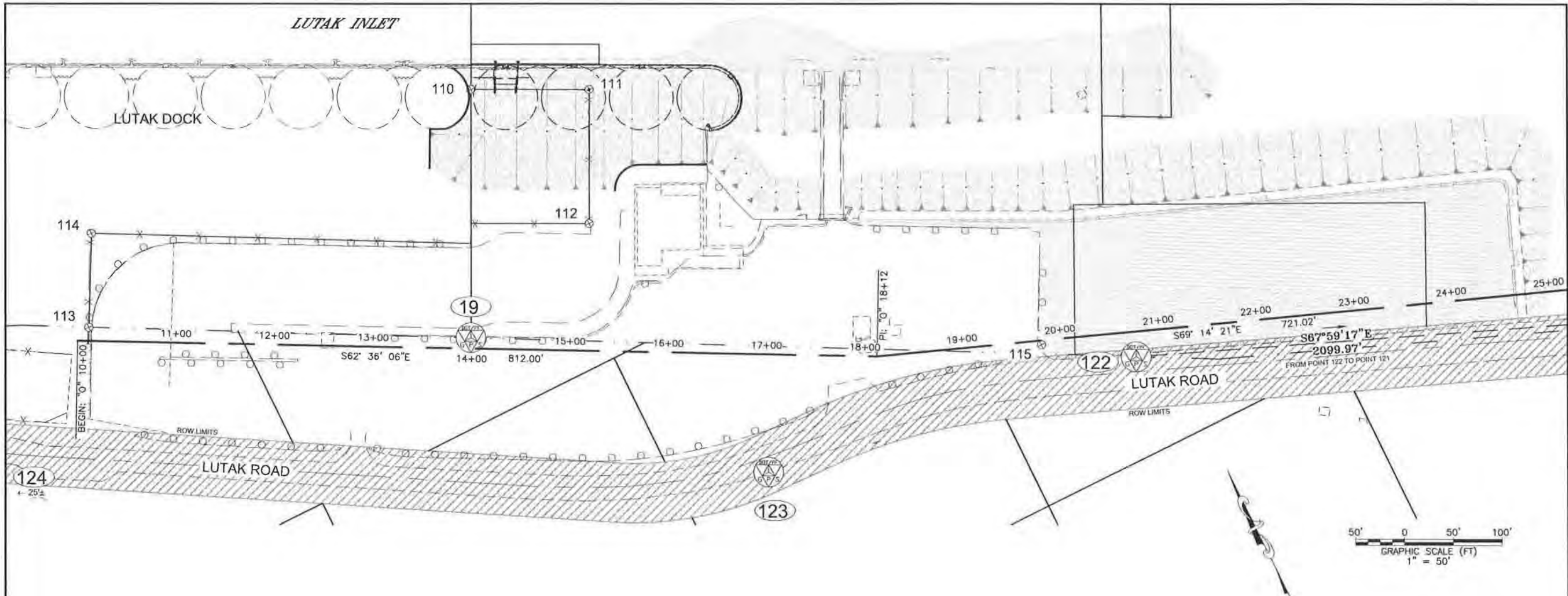
- SHEET PILE CELL EXCAVATION
- DREDGE AREA
- EXISTING TERMINAL PARKING & STAGING AREAS
- NEW FERRY TERMINAL STAGING AREA EXPANSION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

<p>DESIGNED BY: STAFF</p> <p>CHECKED BY: D. LOWELL DRAWN BY: STAFF</p> <p>PATH: G:\INS\88433\WF\CONSTRUCTION\REVISED PLANSET DWGS\COVER SHEETS_REV\T3 - PROJECT OVERVIEW_R1.DWG TAB: T3 Monday, April 06, 2015 4:09:25 PM OSBURN, JOEL D (DOT)</p>	<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION &amp; PUBLIC FACILITIES SOUTHEAST REGION</p> <p><b>HAINES FERRY TERMINAL IMPROVEMENTS COVER SHEETS</b></p> <p><b>PROJECT OVERVIEW</b></p>																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">3/11/15</td> <td>CELL EX. &amp; DREDGING UPDATES</td> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">5</td> </tr> </tbody> </table>	REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION				1	3/11/15	CELL EX. & DREDGING UPDATES		3	5	<p>68433 / 0955014</p> <p>2014</p>
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS														
NO.	DATE	DESCRIPTION																	
1	3/11/15	CELL EX. & DREDGING UPDATES		3	5														



"O" LINE ALIGNMENT TABLE					
POINT DATA			TANGENT DATA		
DESC	STATION	NORTHING	EASTING	BEARING	DISTANCE
BEGIN	10+00	32885.26	50832.39	S 62° 36' 06" E	812.00
PI	18+12.00	32511.59	51553.31	S 69° 14' 21.44" E	721.02
END	25+33.02	32256.02	52227.52		

RECOVERED MONUMENT TABLE				
POINT #	NORTHING	EASTING	DESCRIPTION	
110	32935.6848'	51302.7786'	3 1/4" ALCAP TR-A, C3 TR C, C6 TR E	
111	32882.4693'	51410.2984'	3 1/4" ALCAP C4-TR-C, C5 TR E, ATS 1464	
112	32761.4772'	51350.3927'	3 1/4" ALCAP C1 TR C, C4 TR E, ATS 1464	
113	32892.4390'	50848.8556'	3 1/4" ALCAP C6 TR A, C2 TR B, ATS 1464	
114	32976.3653'	50893.0335'	3 1/4" ALCAP C5 TR A,C3 TR B, ATS 1464	
115	32448.0721'	51708.7338'	3 1/4" ALCAP RM-20, ATS 1464	

**HORIZONTAL CONTROL**

HORIZONTAL CONTROL IS A LOCAL SYSTEM. THE BASIS OF BEARING FOR THIS PROJECT IS THE OBSERVED BEARING BETWEEN STATE HIGHWAY MONUMENT 122 AND STATE HIGHWAY MONUMENT 121, BEING SOUTH 64°59'17" EAST.

CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
19	32711.5433'	51191.8661'	33.99'	HNS-5_ALCAP3.25"
121	31607.7283'	53736.7310'	35.12'	GPS_SH_MON_ALCAP2.5"
122	32394.7925'	51789.8353'	28.70'	GPS_SH_MON_ALCAP2.5"
123	32455.5964'	51402.7659'	32.38'	GPS_SH_MON_ALCAP2.5"
124	32809.1288'	50697.4652'	33.18'	GPS_SH_MON_ALCAP2.5"

**VERTICAL CONTROL**

DATUM IS MLLW BASED ON STATIC GPS TIES TO NOAA BENCHMARKS 2434 A & B LOCATED IN TIAYASANKA HARBOR. STATIC TIES REFER TO POINT NO. 19, HNS-5, A 3 1/4" ALUMINUM CAP FOR ATS-1464 LOCATED IN A MONUMENT CASED IN THE TOE OF THE CURB ALONG THE MEDIAN WITHIN THE FERRY TERMINAL PARKING LOT. MLLW ELEVATION FOR HNS-5 IS 33.99'.

**GENERAL NOTES**

1. SURVEY CONTROL FOR THIS PROJECT SHALL BE BASED ON THE POINTS SHOWN IN THE CONTROL TABLES. MONUMENTS SHOWN IN THE MONUMENT TABLES ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR SHALL VERIFY THE RELATIVE POSITION OF ALL CONTROL POINTS.
3. ALL MONUMENTS AND PROPERTY MARKERS, WHETHER LISTED OR NOT, THAT WILL BE DISTURBED, DESTROYED, OR BURIED SHALL BE REFERENCED PRIOR TO DISRUPTION, DESTRUCTION, OR BEING BURIED, AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH A.S. 34.65.040 SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT TO BE USED TO RESET MONUMENTS.
4. USE THE MONUMENTS IN THE CONTROL TABLE FOR PROJECT SURVEYING. IF ANY PAIR OF CONTROL POINTS DISAGREE FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.

**LEGEND**

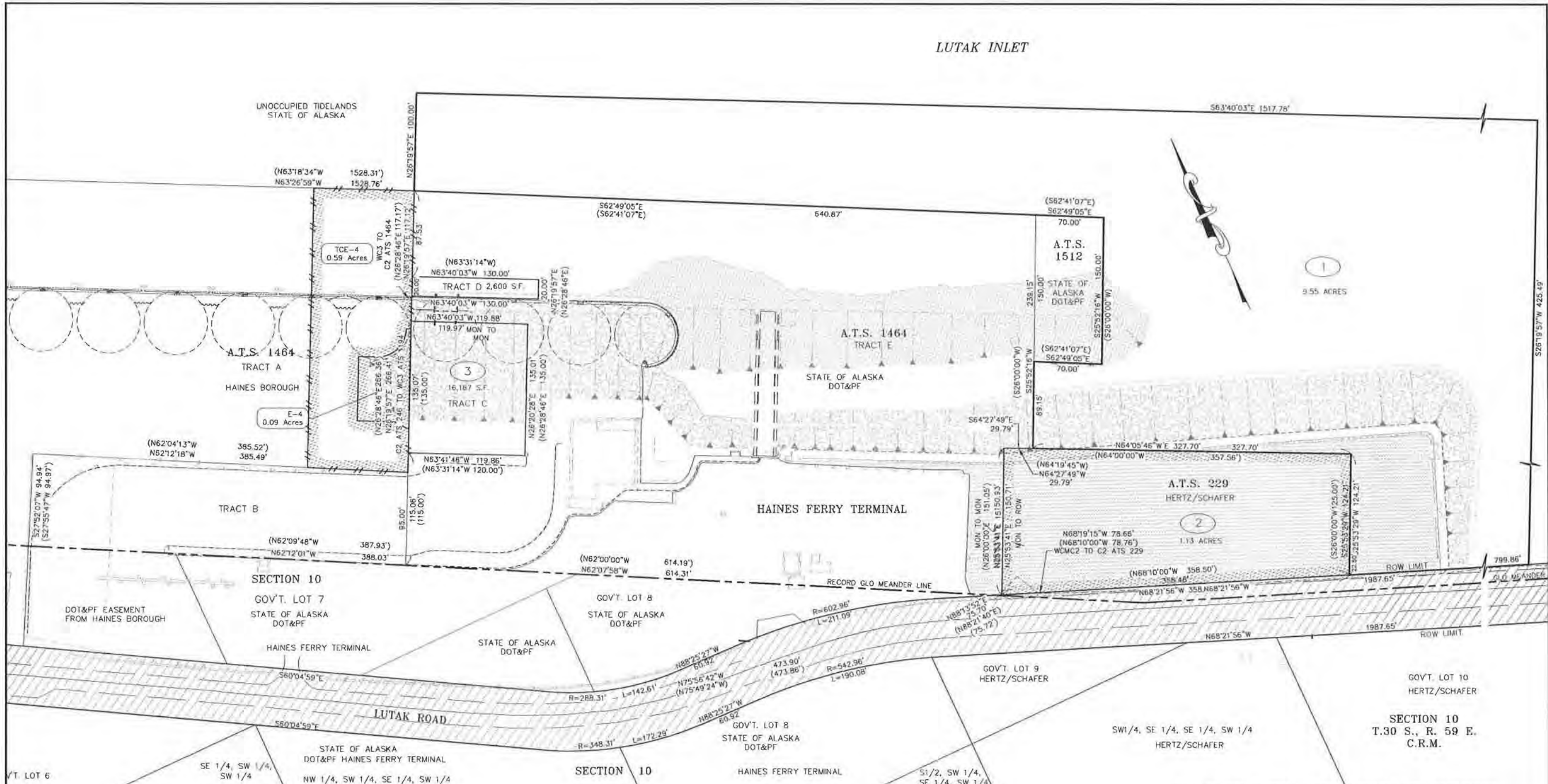
	CELL EXCAVATION AREA
	DREDGE AREA
	EXISTING RIGHT OF WAY
	NEW FILL AREA

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kullb* Date 12/13/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: DRAWN BY:		<b>HAINES FERRY TERMINAL IMPROVEMENTS          COVER SHEETS</b>	
PATH: g:\hns\68433\0955014\HAINES_FERRY_TERMINAL.dwg TAB: 4 Thursday, December 12, 2013 3:33:33 BURMILLER, RICHARD J (DOT)		<b>SURVEY CONTROL</b>	
REVISIONS NO. DATE DESCRIPTION	PROJECT DESIGNATION <b>68433/0955014</b>	YEAR <b>2013</b>	SHEET NO. <b>4</b>
			TOTAL SHEETS <b>5</b>

LUTAK INLET



TEMPORARY CONSTRUCTION EASEMENT			
TCE NO.	OWNER	AREA	PURPOSE
TCE-4	HAINES BOROUGH	0.59 AC	ACCESS FOR GRADING

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
1	STATE OF ALASKA DNR	9.55 AC	0	
2	HERTZ / SCHAFER	1.13 AC	0	
3	HAINES BOROUGH	16,187 S.F.	0	
4	HAINES BOROUGH	0.09 AC	11.65 AC	

- LEGEND**
- CELL EXCAVATION AREA
  - DREDGE AREA
  - EXISTING RIGHT OF WAY
  - NEW FILL AREA

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kell* Date 12/13/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R DAVIS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS  
COVER SHEETS**

**PROPERTY EXHIBIT**

DESIGNED BY: STAFF  
DRAWN BY: R GERMILLER

PATH: g:\hvs\68433\HAINES\_FERRY\_TERMINAL\_2011.dwg  
TAB: 5 Thursday, December 12, 2013 3:42:33 BERMILLER, RICHARD J (DOT)

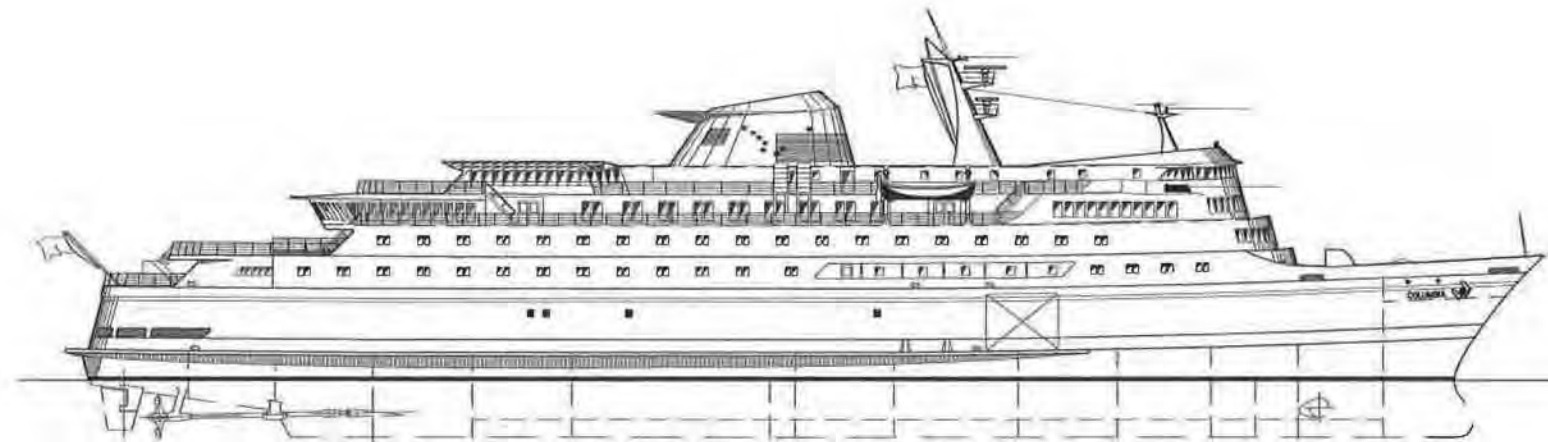
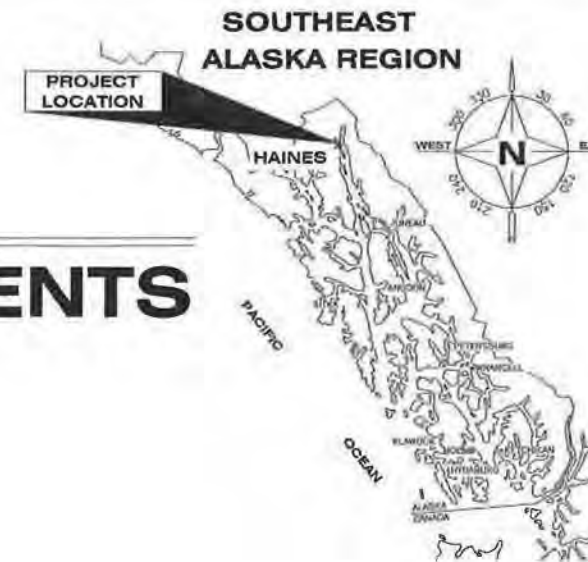
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68433/0955014	2013	5	5

# State of Alaska

Department of Transportation & Public Facilities  
SOUTHEAST REGION

## HAINES FERRY TERMINAL IMPROVEMENTS HAINES, ALASKA

PROJECT No. 68433/0955014



### PLANSET A: FERRY TERMINAL UPLANDS & DREDGING

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kull* Date 12/13/16

#### SHEET INDEX

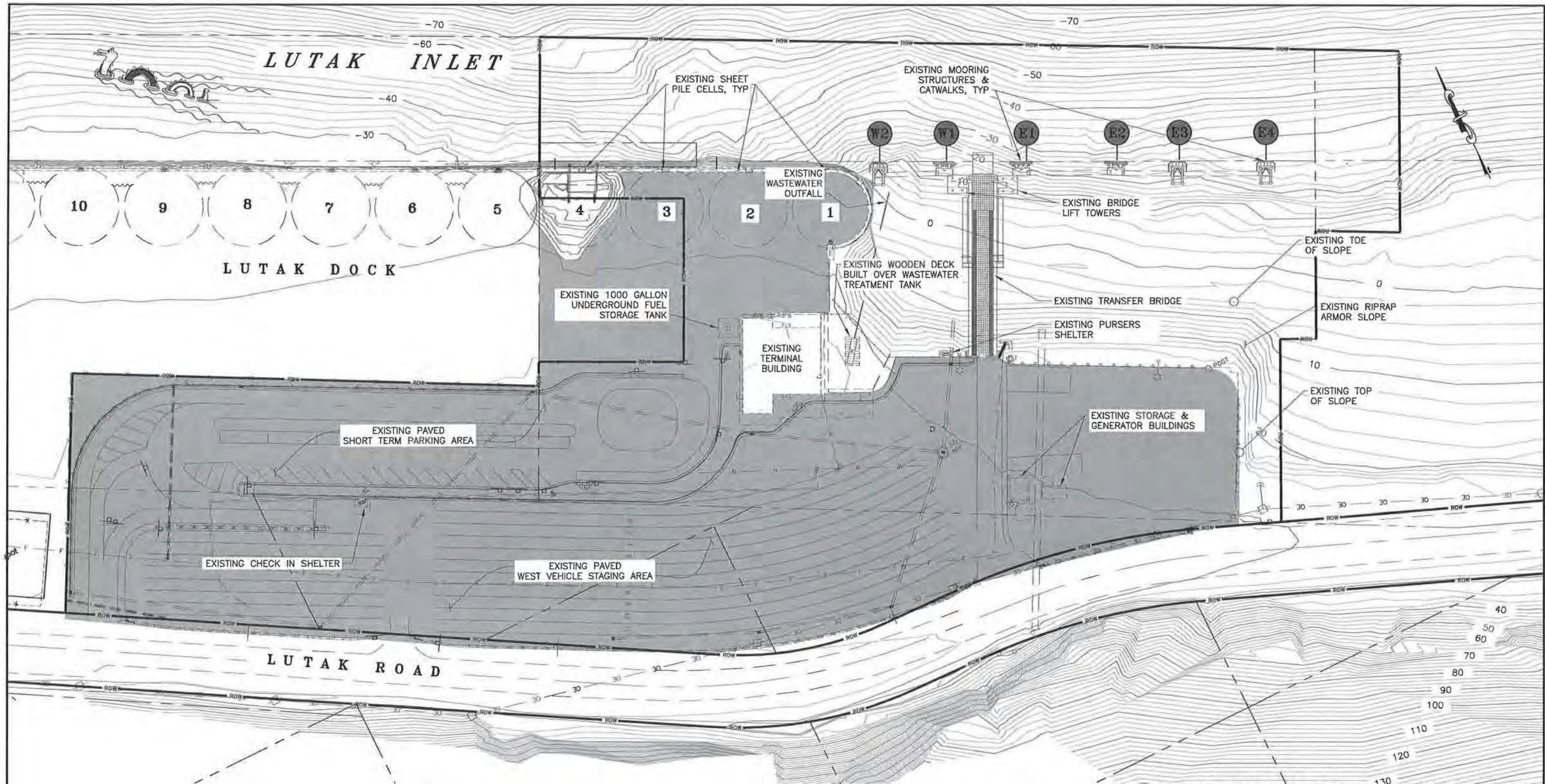
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING SITE PLAN
3	NEW SITE PLAN
4	CONSTRUCTION SEQUENCING PLAN
5-7	UPLANDS DEMOLITION
8-13	UPLANDS IMPROVEMENTS
14	DREDGING PLAN
15-18	TYPICAL SECTIONS
19	LAYOUT POINT TABLE
20	SUMMARY TABLES
21	HEATING OIL TANK REPLACEMENT
22-24	COVERED WALKWAY #1
25	COVERED WALKWAY #2
26	PURSEERS SHELTER
27-31	MISCELLANEOUS DETAILS
32-34	FENCE & GATE DETAILS
35-50	DOCK MODIFICATIONS
51-54	SIGNING & STRIPING PLANS
55-56	MATERIAL DISPOSAL SITE PLAN & SECTIONS
57	EROSION & SEDIMENT CONTROL PLAN

PATH: Q:\HNS\68433\PLANSET\MF\PLANSET A\01 - TITLE SHEET.DWG TAB:1  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION



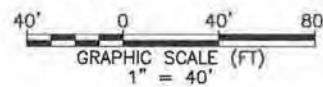
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68433/0955014	2014	1	57



**LEGEND**

- EXISTING PROPERTY LINE
- ROW- RIGHT OF WAY LINE
- █ EXISTING PAVED STAGING & PARKING AREAS


**EXISTING SITE PLAN**



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

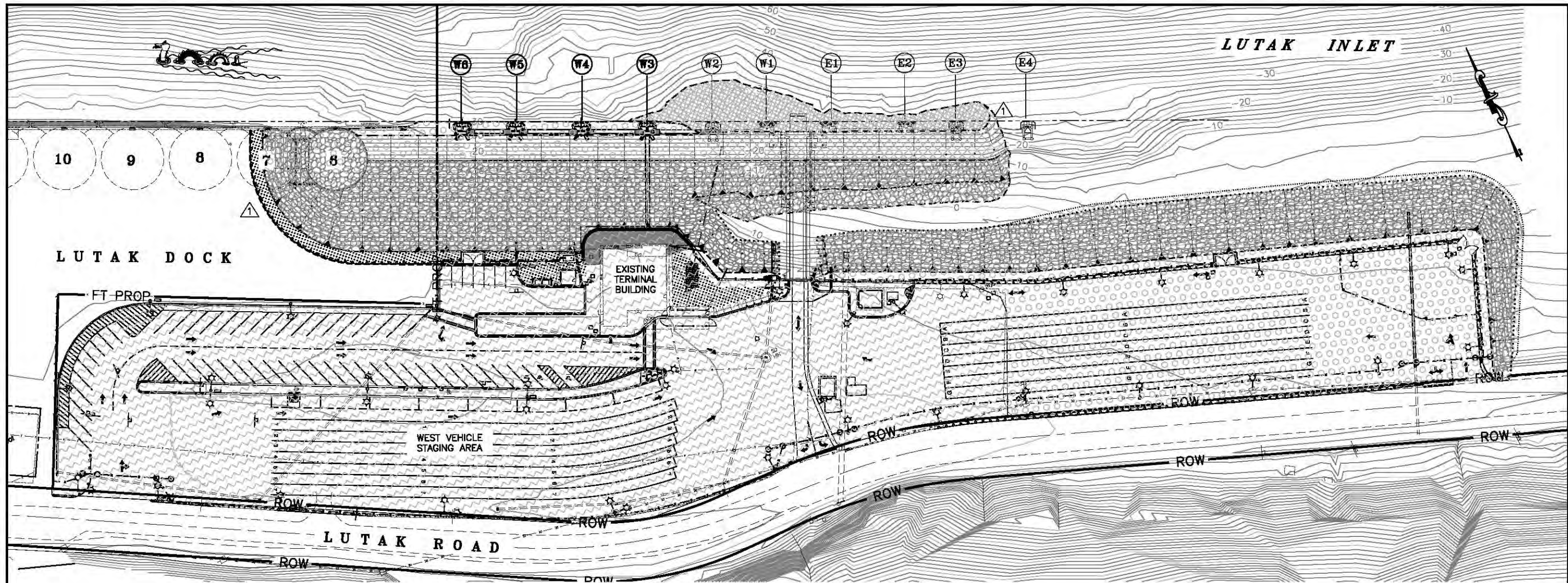
PE *K Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

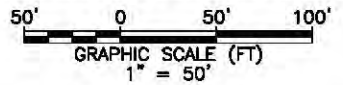
DESIGNED BY: J. OSBURN 	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET A</b> <b>EXISTING SITE PLAN</b>																								
CHECKED BY: K. MILLER DRAWN BY: STAFF PATH: Q:\HNS\68433\PLANSET\WF\PLANSET A\02 - EXISTING SITE PLAN.DWG TAB: 2 Tuesday, January 21, 2014 11:19:00 AM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">REVISIONS</th> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> <tr> <td>NO.</td> <td>DATE</td> <td>DESCRIPTION</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3"></td> <td><b>68433 / 0955014</b></td> <td><b>2014</b></td> <td><b>2</b></td> </tr> <tr> <td colspan="3"></td> <td></td> <td><b>2</b></td> <td><b>57</b></td> </tr> </table>	REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION							<b>68433 / 0955014</b>	<b>2014</b>	<b>2</b>					<b>2</b>	<b>57</b>
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																				
NO.	DATE	DESCRIPTION																							
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				<b>2</b>	<b>57</b>																				













**CONSTRUCTION STAGING PLAN**



**STAGING LEGEND**

-  STAGE 1 - DREDGING & OFFSHORE DISPOSAL WORK
-  STAGE 2 - CELL EXCAVATION & DEMOLITION; CONSTRUCTION OF NEW FILL EMBANKMENT FOR EAST STAGING AREA
-  STAGE 3 - CONSTRUCTION OF NEW TERMINAL BUILDING RETAINING WALL
-  STAGE 4 - BUILD NEW STORAGE & GENERATOR BUILDINGS; RELOCATE ELECTRICAL CONTROL PANEL TO NEW GEN. BUILDING
-  STAGE 5 - CONSTRUCTION OF MARINE STRUCTURES
-  STAGE 6 - UPLANDS MODIFICATIONS TO EXISTING PARKING & WEST STAGING AREA.


NOTE: CONSTRUCTION STAGES SHOWN ON THIS SHEET ARE FOR CONCEPTUAL VIEW ONLY. ACTUAL CONSTRUCTION SEQUENCING SHALL BE PROVIDED BY THE CONTRACTOR IN THE CPM SCHEDULE PER SECTION 646.

**CONSTRUCTION LIMITATIONS AND STAGING NOTES:**

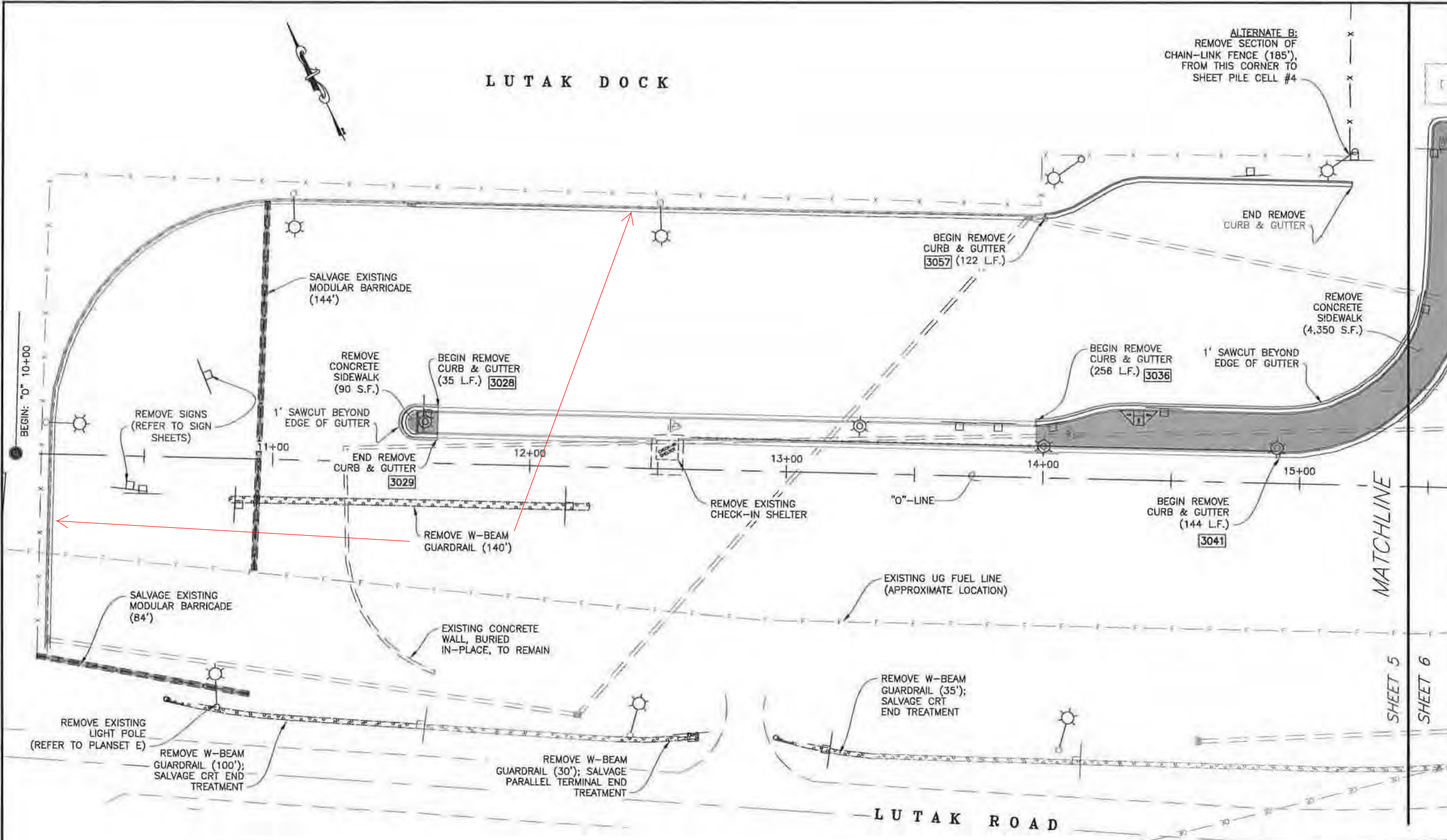
1. **CONSTRUCTION STAGING PLAN & CPM SCHEDULING** - THE CONTRACTOR SHALL DEVELOP A DETAILED CONSTRUCTION STAGING PLAN & MAINTAIN A CPM SCHEDULE FOR ALL WORK ON THE PROJECT PER THE PLAN NOTES & ASSOCIATED SPECIFICATIONS. INCLUDE DETAILED SEQUENCE AND METHODS FOR CONDUCTING WORK WHILE MAINTAINING SCHEDULED FERRY SERVICE & TERMINAL OPERATIONS. COORDINATE WITH AMHS FOR THE LATEST FERRY SCHEDULES AND UPDATES, AND THE HAINES TERMINAL MANAGER WHEN SCHEDULING CONSTRUCTION ACTIVITIES. NO WORK MAY COMMENCE ON SITE UNTIL THE STAGING PLAN & ASSOCIATED CPM SCHEDULE HAS BEEN APPROVED BY THE ENGINEER.
  2. **ENVIRONMENTAL COMMITMENTS** - REFERENCE APPENDIX B AND SECTION 641 OF THE SPECIFICATIONS FOR ALL PERTINENT ENVIRONMENTAL WORK RESTRICTIONS. NO IN-WATER WORK IS ALLOWED BETWEEN APRIL 15 AND JUNE 30.
  3. **UNAUTHORIZED TERMINAL CLOSURES** - REFERENCE SECTION 202 OF THE SPECIAL PROVISIONS. A TERMINAL CLOSURE PRICE WITHHOLDING (DEDUCTION IN CONTRACT PAYMENTS) WILL BE ASSESSED UNDER BID ITEM 202(13) FOR EACH OCCURRENCE THAT A SCHEDULED AMHS VESSEL IS PREVENTED FROM USING THE FACILITY AS A RESULT OF THE CONTRACTORS OPERATIONS.
  4. **CLEAR ACCESS TO BERTH** - PRIOR TO SCHEDULED AMHS FERRY ARRIVALS, THE CONTRACTORS EQUIPMENT AND MATERIALS SHALL BE MOVED OR STORED IN LOCATIONS THAT WILL NOT AFFECT SAFE VESSEL ACCESS, BERTHING AND VEHICLE AND PEDESTRIAN TRANSFER OPERATIONS.
  5. **ELECTRICAL POWER COORDINATION** - COORDINATE ALL POWER DISRUPTIONS TO THE BRIDGE LIFT SYSTEM WHEN VESSELS ARE NOT SCHEDULED TO BE IN PORT. INSURE THAT PERMANENT OR TEMPORARY POWER IS RESTORED TO THE BRIDGE LIFT MOTORS AND THAT THE TRANSFER BRIDGE IS FULLY FUNCTIONAL A MINIMUM OF ONE-HOUR BEFORE SCHEDULED VESSEL ARRIVALS.
- THE CONTRACTOR SHALL CONTACT WARD MACE - AMHS FACILITIES MANAGER (907-228-6820) 5 CALENDAR DAYS PRIOR TO RE-ENERGIZING THE BRIDGE LIFT SYSTEM, FOR OVERSIGHT & TECHNICAL ASSISTANCE.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET A</b>							
CHECKED BY: K. MILLER DRAWN BY: STAFF		<b>CONSTRUCTION STAGING PLAN</b>							
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<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3/11/15</td> <td>MISC. CHANGES</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	1	3/11/15	MISC. CHANGES	PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2015</b>
NO.	DATE	DESCRIPTION							
1	3/11/15	MISC. CHANGES							
SHEET NO. <b>4</b>		TOTAL SHEETS <b>57</b>							

LUTAK DOCK

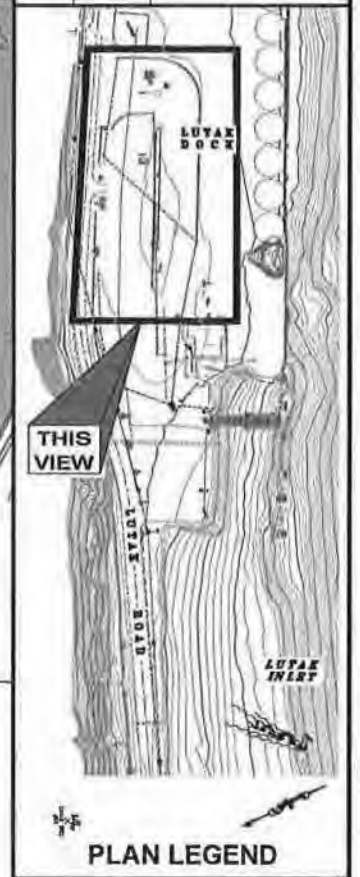


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FROM THIS CORNER TO  
SHEET PILE CELL #4

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OSBURN, JOEL D (DOT)

TAB: 5 Thursday, January 23, 2014  
1:34:45 PM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER

DRAWN BY: STAFF

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

HAINES FERRY TERMINAL  
IMPROVEMENTS  
PLANSET A

UPLANDS  
IMPROVEMENTS

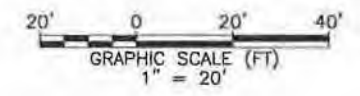
WEST STAGING &  
PARKING AREAS

PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
5	57

LEGEND

- CONCRETE SIDEWALK TO REMOVE
- LAYOUT POINT NUMBERS

DEMOLITION PLAN

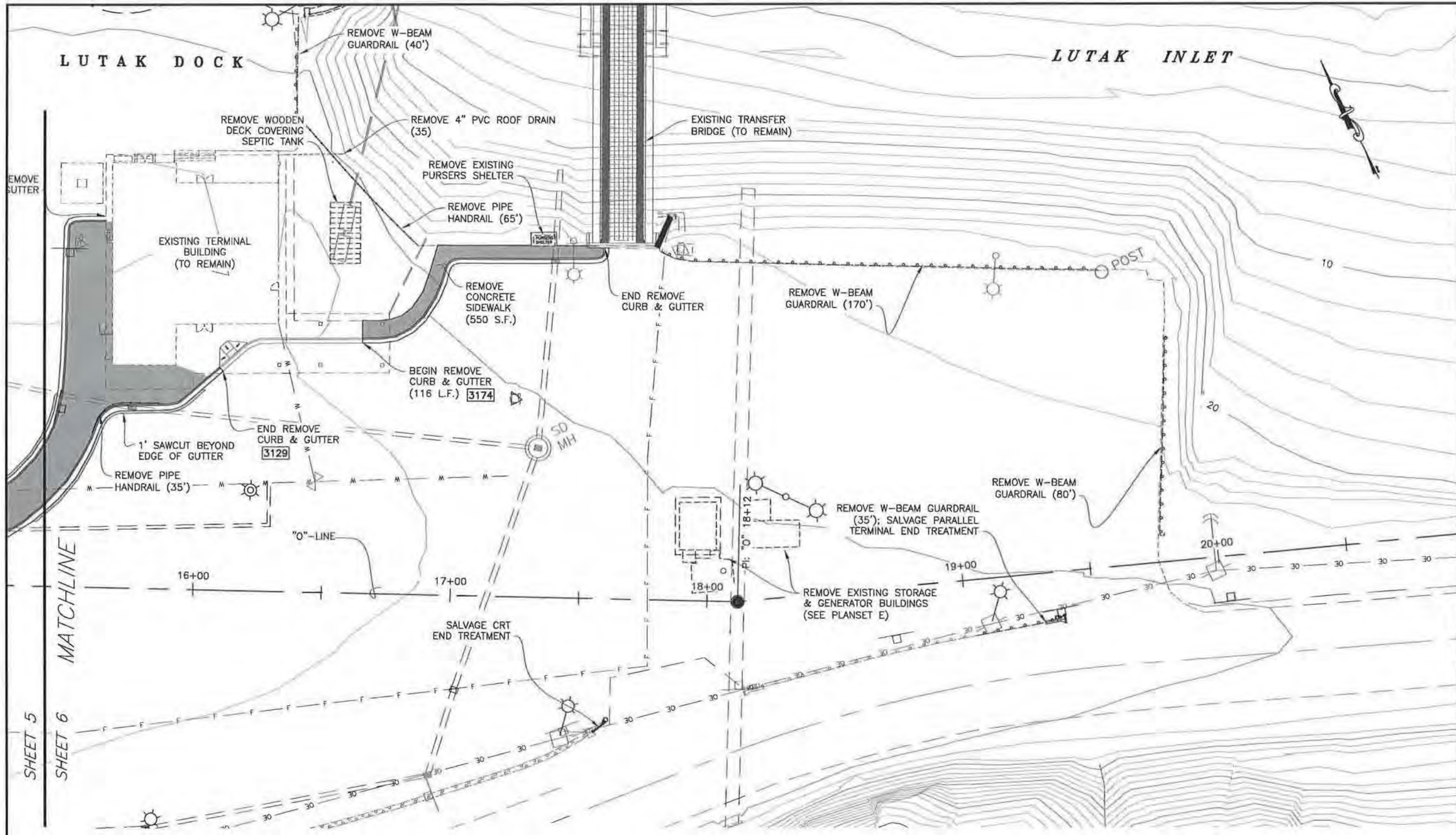


Record Drawings have been reviewed  
by the Project Engineer, and represent  
to the best of my knowledge, the  
project as constructed.

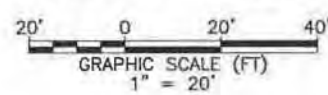
PE *K Miller* Date 12/13/16

- GENERAL DEMOLITION NOTES:**
1. REFER TO THE CONSTRUCTION STAGING PLAN FOR LIMITATIONS ON SCHEDULING DEMOLITION ACTIVITIES.
  2. STRIPING & SIGNING NOT SHOWN FOR CLARITY.
  3. SEE PLANSET E FOR ELECTRICAL WORK & LIGHT POLE LAYOUTS.
  4. REFER TO SHEET 19 FOR LAYOUT POINT TABLE.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.



**DEMOLITION PLAN**



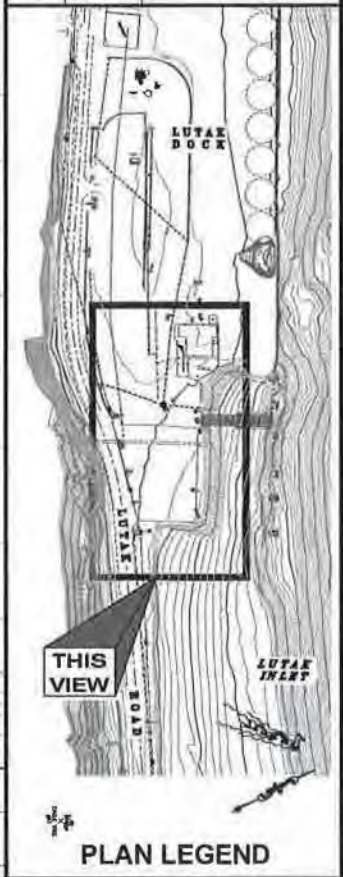
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- CONCRETE SIDEWALK TO REMOVE
- LAYOUT POINT NUMBERS

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OSBURN, JOEL D (DOT)

TAB: 6 Thursday, January 23, 2014 1:36:35 PM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER  
DRAWN BY: STAFF

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**UPLANDS DEMOLITION**

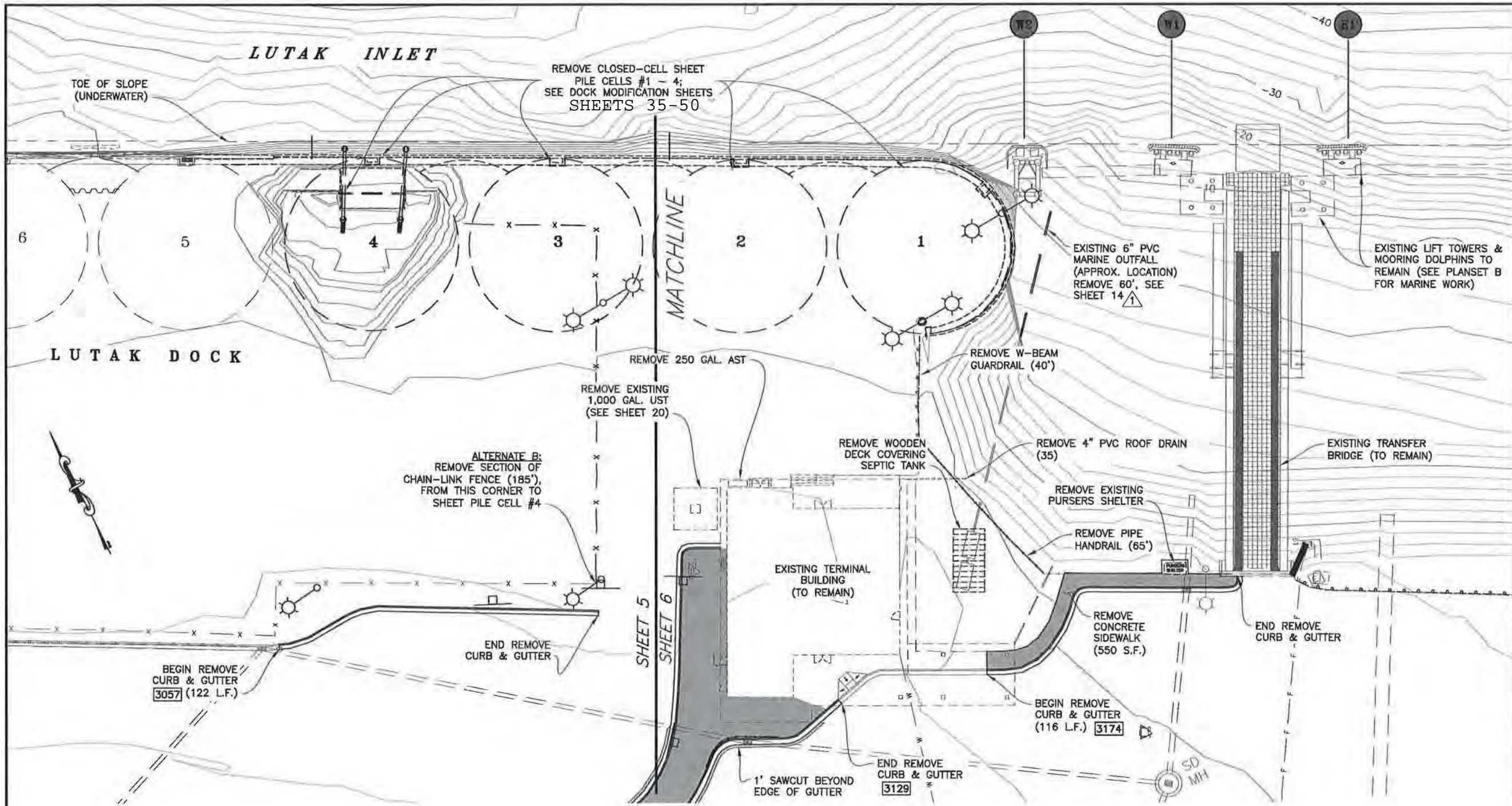
**VESSEL LOADING AREA**

PROJECT DESIGNATION	
<b>68433 / 0955014</b>	
STATE	YEAR
<b>ALASKA</b>	<b>2014</b>
SHEET NUMBER	TOTAL SHEETS
<b>6</b>	<b>57</b>

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

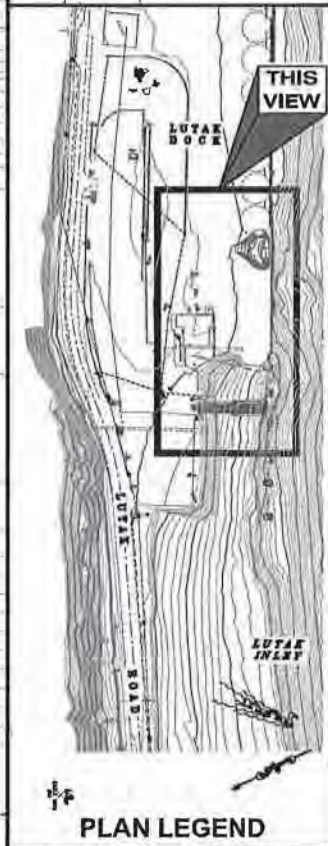
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.



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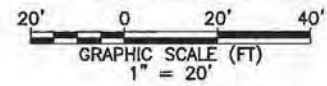
DESIGNED BY: J. OSBURN  
  
 CHECKED BY: K. MILLER  
 DRAWN BY: STAFF

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**HAINES FERRY TERMINAL  
 IMPROVEMENTS  
 PLANSET A  
 UPLANDS  
 DEMOLITION**  
**TERMINAL  
 BUILDING AREA &  
 CELL REMOVAL**  
 PROJECT DESIGNATION  
**68433 / 0955014**  

STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
7	57

**LEGEND**  
 CONCRETE SIDEWALK TO REMOVE  
 LAYOUT POINT NUMBERS

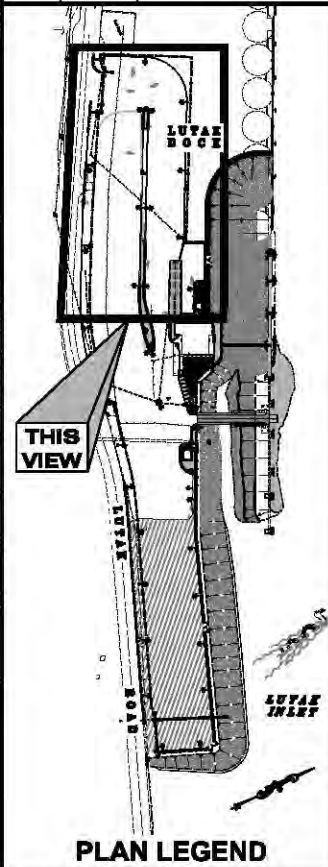
**DEMOLITION PLAN**



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER  
 DRAWN BY: STAFF

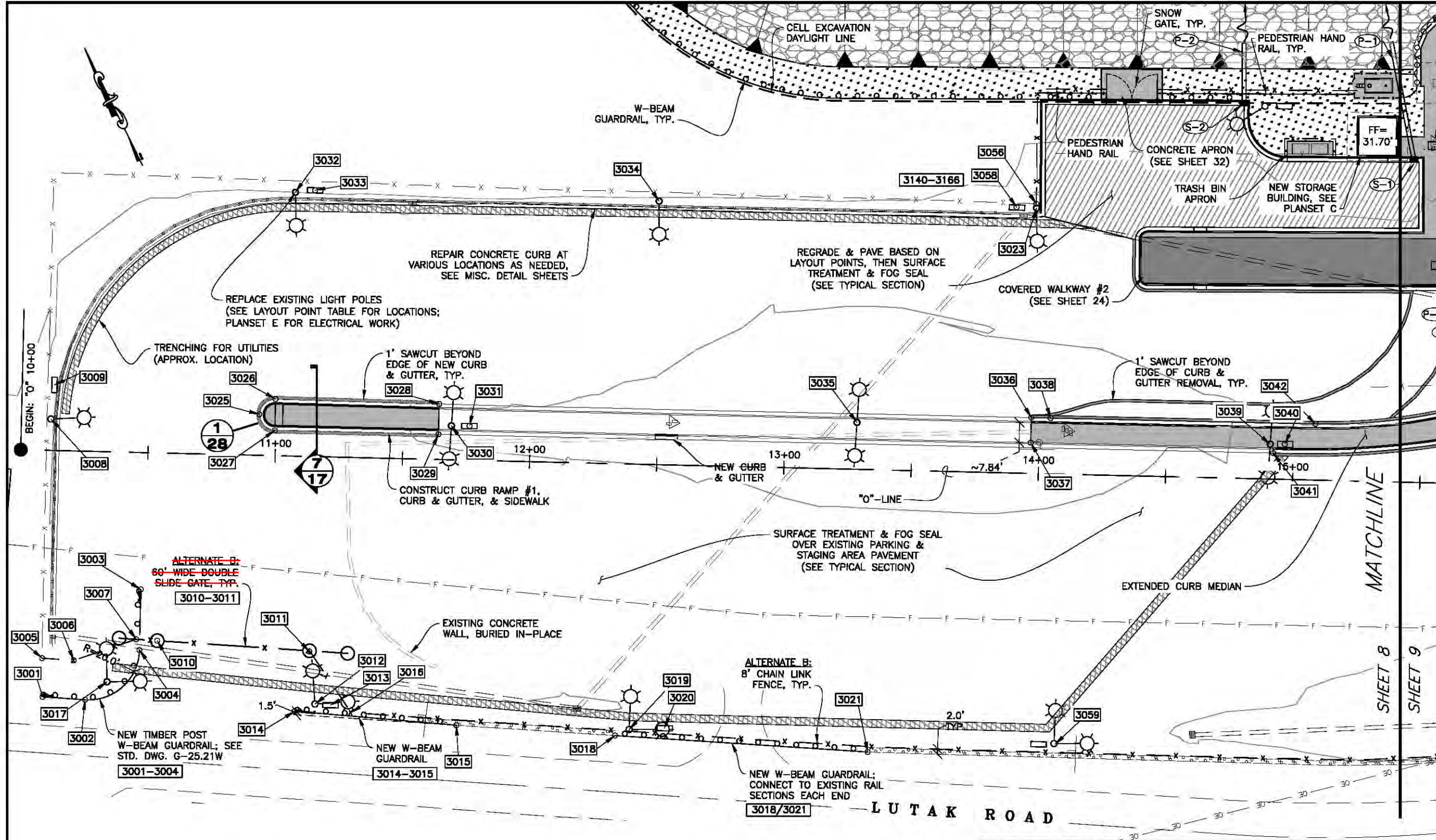
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**UPLANDS IMPROVEMENTS**

**WEST STAGING & PARKING AREAS**

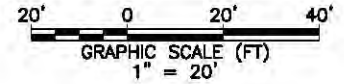
PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
8	57



**LEGEND**

	ARMOR ROCK		NEW COVERED WALKWAY
	LANDSCAPING - GRASS		LIMITS OF FILL
	NEW ASPHALT PAVEMENT		LIMITS OF CUT
	NEW 4" CONCRETE SIDEWALK		LAYOUT POINT NUMBERS
	TRENCHING FOR UTILITIES (ESTIMATING PURPOSES ONLY)		MISC. PAVEMENT SAWCUTS (ESTIMATING PURPOSES ONLY)

**IMPROVEMENTS PLAN**



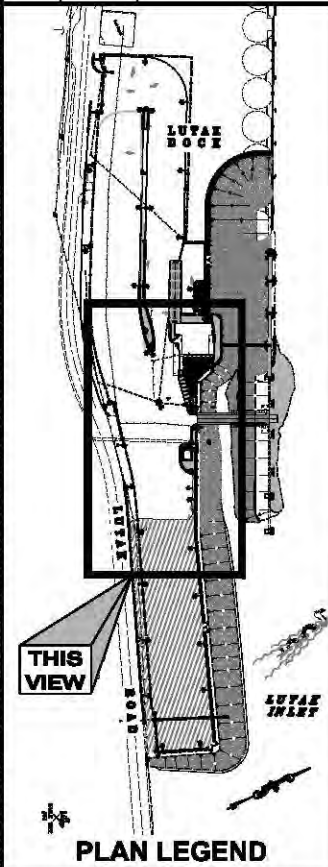
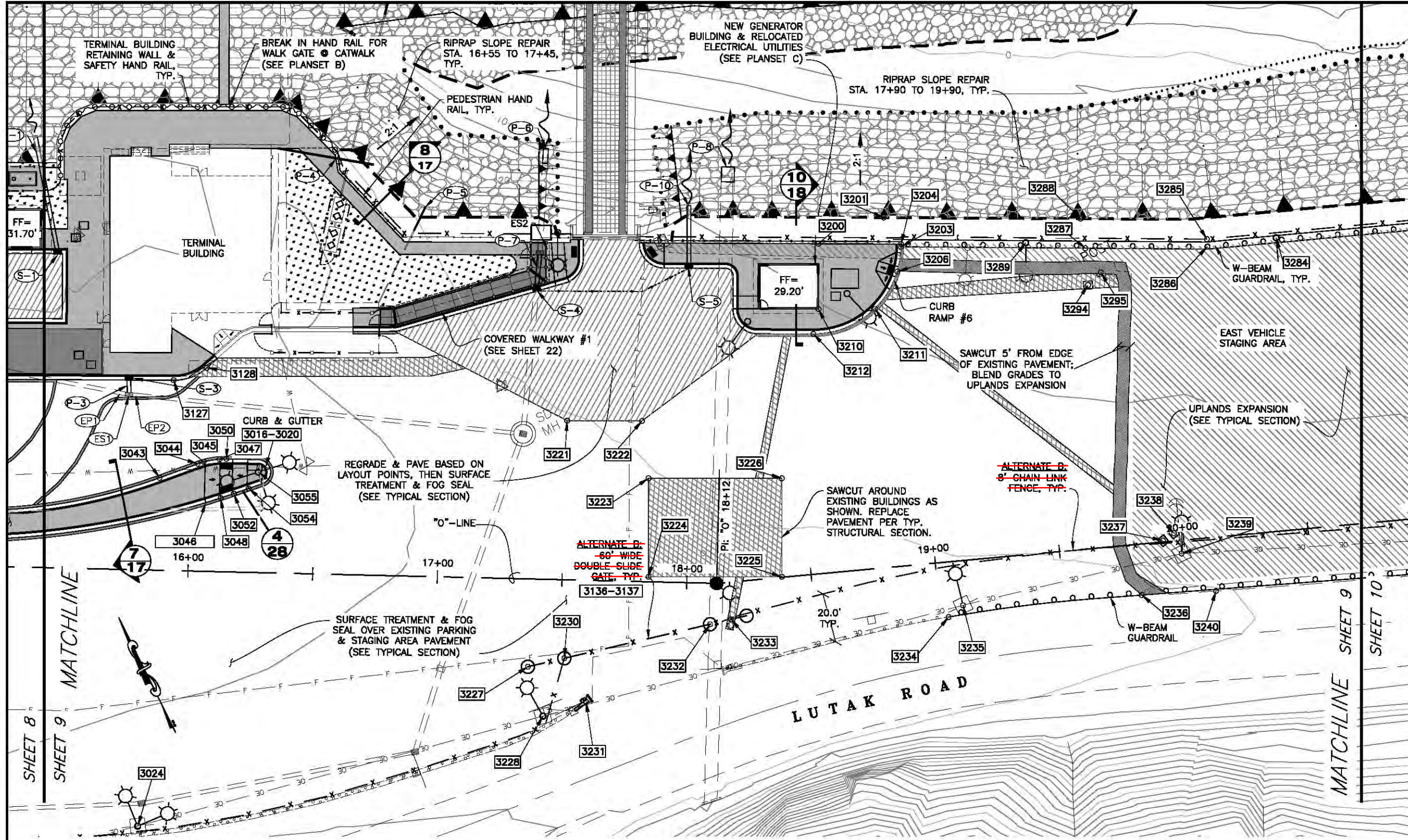
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

**GENERAL NOTES**

- REFER TO THE CONSTRUCTION STAGING PLAN FOR LIMITATIONS & COORDINATION ON SCHEDULING CONSTRUCTION ACTIVITIES.
- PROVIDE TEMPORARY PAVEMENT PATCHING WITHIN 24 HOURS OF ANY BREAKS IN THE EXISTING PAVED STAGING/PARKING AREAS. SEE TYPICAL SECTION FOR TEMPORARY PATCHING INFORMATION.
- STRIPING & SIGNING NOT SHOWN FOR CLARITY.
- SEE PLANSET C FOR THE GENERATOR BUILDING & STORAGE SHED. SEE PLANSET E FOR ELECTRICAL WORK.
- REFER TO SHEET 19 FOR LAYOUT POINT TABLE.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



DESIGNED BY: J. OSBURN  
  
 4/6/15

CHECKED BY: K. MILLER  
 DRAWN BY: STAFF

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**UPLANDS IMPROVEMENTS**  
**EAST STAGING AREA**

PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
9	57

**LEGEND**

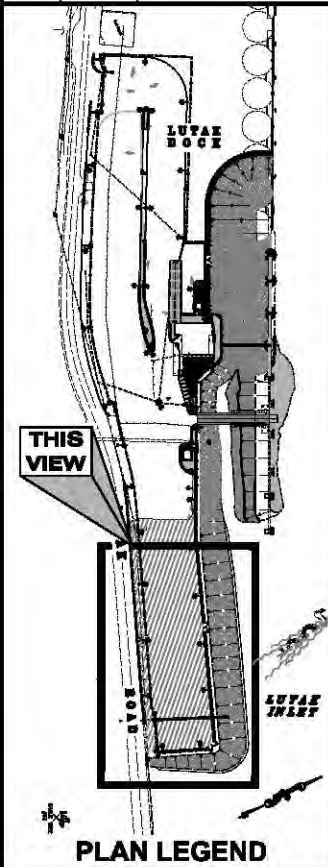
- ARMOR ROCK
- LANDSCAPING - GRASS
- NEW ASPHALT PAVEMENT
- NEW 4" CONCRETE SIDEWALK
- TRENCHING FOR UTILITIES (ESTIMATING PURPOSES ONLY)
- NEW COVERED WALKWAY
- LIMITS OF FILL
- LIMITS OF CUT
- LAYOUT POINT NUMBERS
- MISC. PAVEMENT SAWCUTS (ESTIMATING PURPOSES ONLY)

**IMPROVEMENTS PLAN**



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



DESIGNED BY: J. OSBURN

4/6/15

CHECKED BY: K. MILLER  
DRAWN BY: STAFF

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**UPLANDS IMPROVEMENTS**

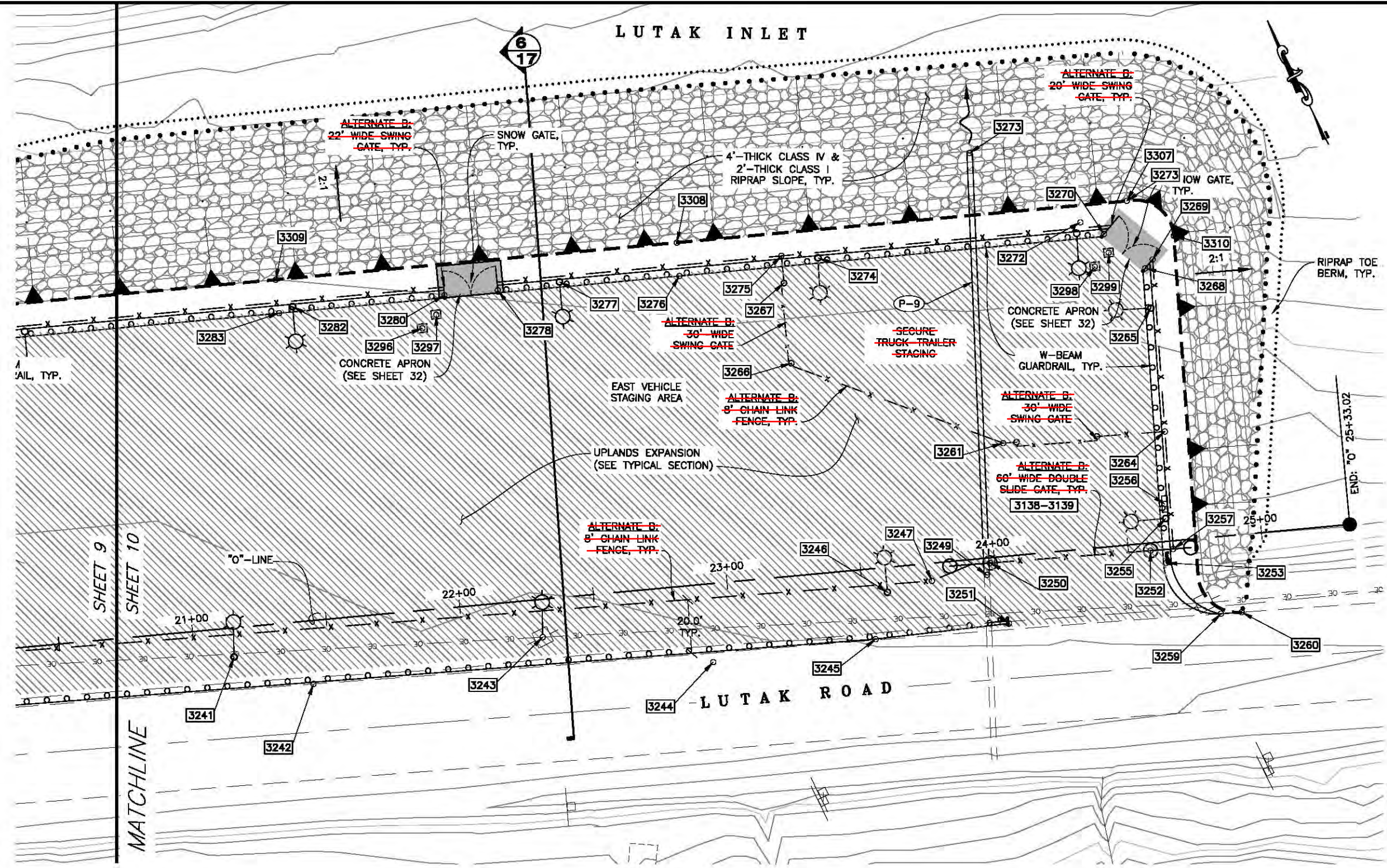
**EAST STAGING AREA**

PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
10	57

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K Miller* Date 12/13/16

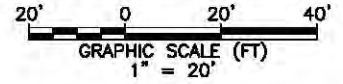
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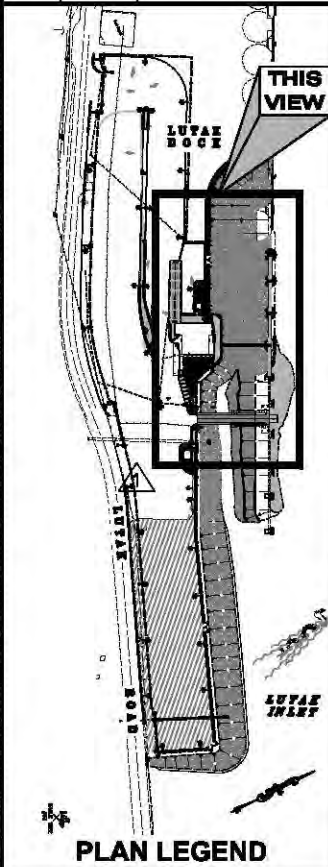
**LEGEND**

- ARMOR ROCK
- LANDSCAPING - GRASS
- NEW ASPHALT PAVEMENT
- NEW 4" CONCRETE SIDEWALK
- NEW COVERED WALKWAY
- LIMITS OF FILL
- LIMITS OF CUT
- LAYOUT POINT NUMBERS

**IMPROVEMENTS PLAN**



RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



DESIGNED BY: J. OSBURN



CHECKED BY: K. MILLER

DRAWN BY: STAFF

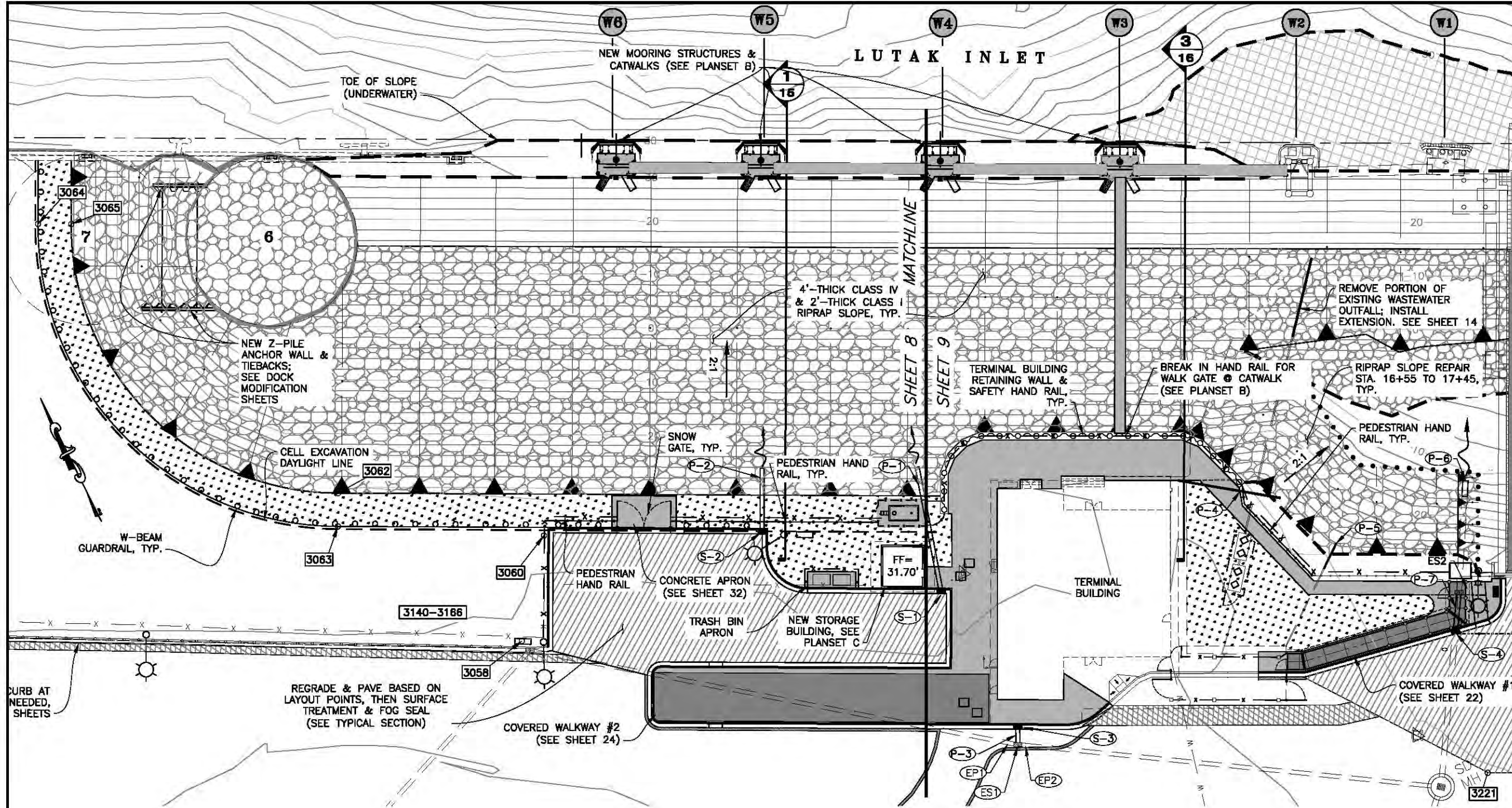
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A UPLANDS IMPROVEMENTS**

**TERMINAL BUILDING & CELL REMOVAL AREAS**

PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
11	57

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16



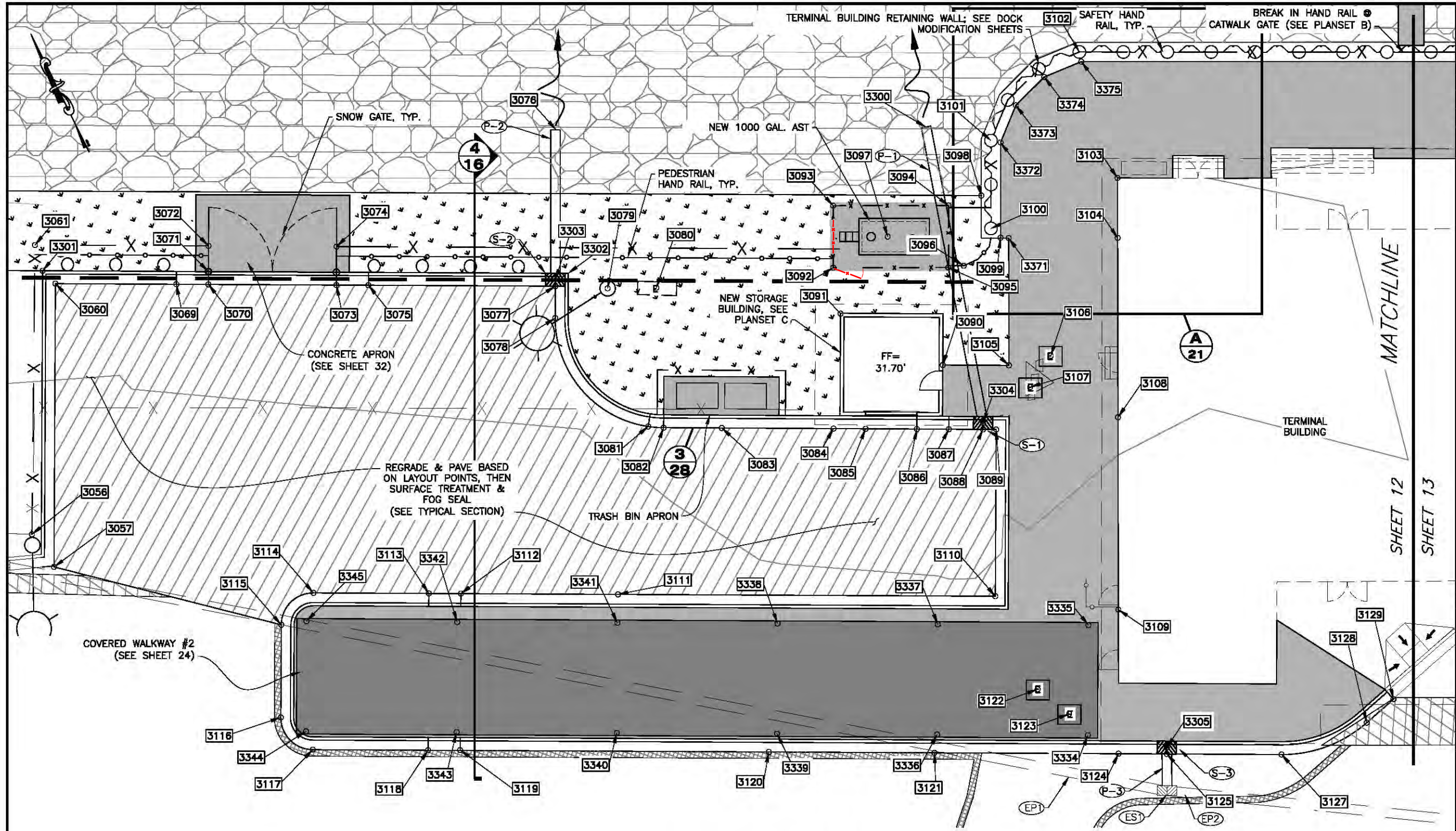
REGRADE & PAVE BASED ON LAYOUT POINTS, THEN SURFACE TREATMENT & FOG SEAL (SEE TYPICAL SECTION)

**IMPROVEMENTS PLAN**  
GRAPHIC SCALE (FT)  
1" = 20'

LEGEND			
	ARMOR ROCK		NEW COVERED WALKWAY
	LANDSCAPING - GRASS		LIMITS OF FILL
	NEW ASPHALT PAVEMENT		LIMITS OF CUT
	NEW 4" CONCRETE SIDEWALK		LAYOUT POINT NUMBERS
	TRENCHING FOR UTILITIES (ESTIMATING PURPOSES ONLY)		MISC. PAVEMENT SAWCUTS (ESTIMATING PURPOSES ONLY)

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

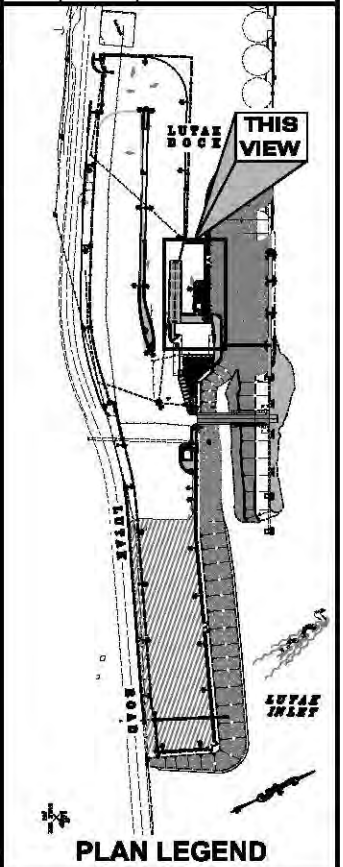




PATH: O:\HNS\68433\MF\CONSTRUCTION\REVISED PLANSET DWG\PLANSET A\_REV\08-13 - UPLANDS IMPROVEMENTS BY DWG OSBURN, DEL D (DOT)

TAB: 12 Monday, April 06, 2015 12:12:57 PM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER  
DRAWN BY: STAFF

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**UPLANDS IMPROVEMENTS**

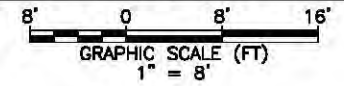
**TERMINAL BUILDING WEST**

PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
12	57

**LEGEND**

- ARMOR ROCK
- LANDSCAPING - GRASS
- NEW ASPHALT PAVEMENT
- NEW 4" CONCRETE SIDEWALK
- TRENCHING FOR UTILITIES (ESTIMATING PURPOSES ONLY)
- NEW COVERED WALKWAY
- LIMITS OF FILL
- LIMITS OF CUT
- LAYOUT POINT NUMBERS
- MISC. PAVEMENT SAWCUTS (ESTIMATING PURPOSES ONLY)

**IMPROVEMENTS PLAN**

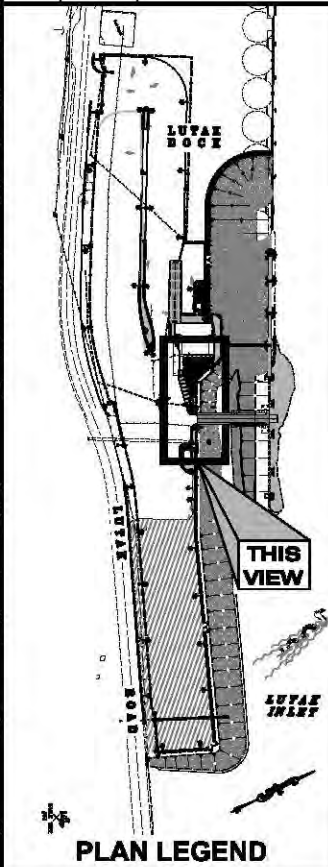


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER  
DRAWN BY: STAFF

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

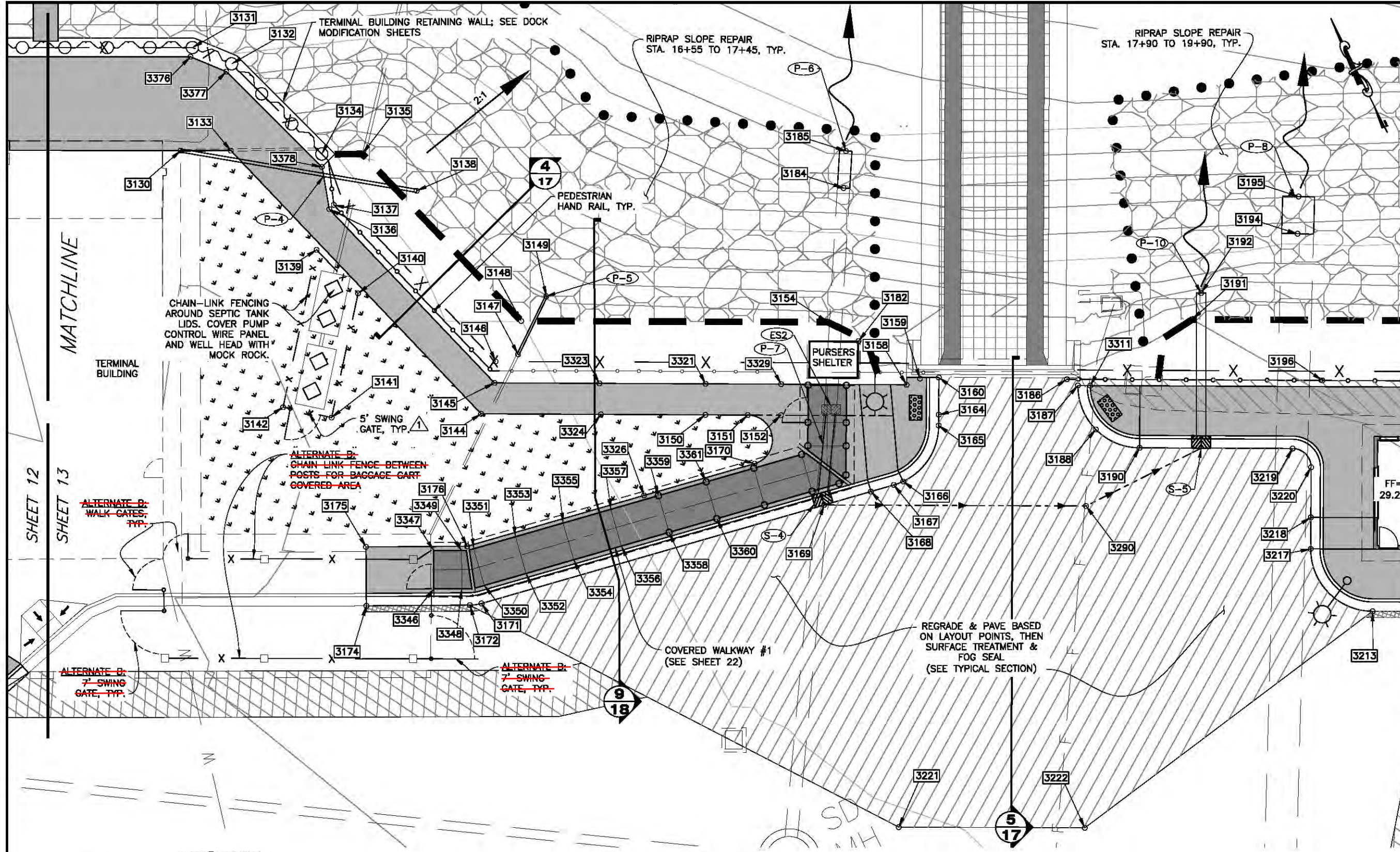
**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**UPLANDS IMPROVEMENTS**

**TERMINAL BUILDING EAST**

PROJECT DESIGNATION	
68433 / 0955014	
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
13	57

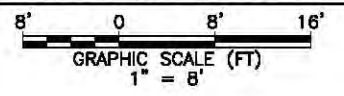
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16



**LEGEND**

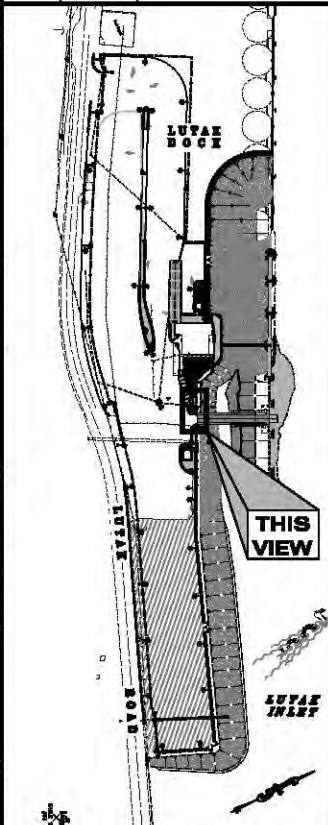
- ARMOR ROCK
- NEW COVERED WALKWAY
- LANDSCAPING - GRASS
- LIMITS OF FILL
- NEW ASPHALT PAVEMENT
- LIMITS OF CUT
- NEW 4" CONCRETE SIDEWALK
- LAYOUT POINT NUMBERS
- TRENCHING FOR UTILITIES (ESTIMATING PURPOSES ONLY)
- MISC. PAVEMENT SAWCUTS (ESTIMATING PURPOSES ONLY)
- PAVED DRAINAGE SWALE

**IMPROVEMENTS PLAN**



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
2	3/14/15	ADDED LAYOUT POINTS; NEW DREDGING & CELL EX. LIMITS



PLAN LEGEND

DESIGNED BY: J. OSBURN



CHECKED BY: K. MILLER

DRAWN BY: STAFF

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

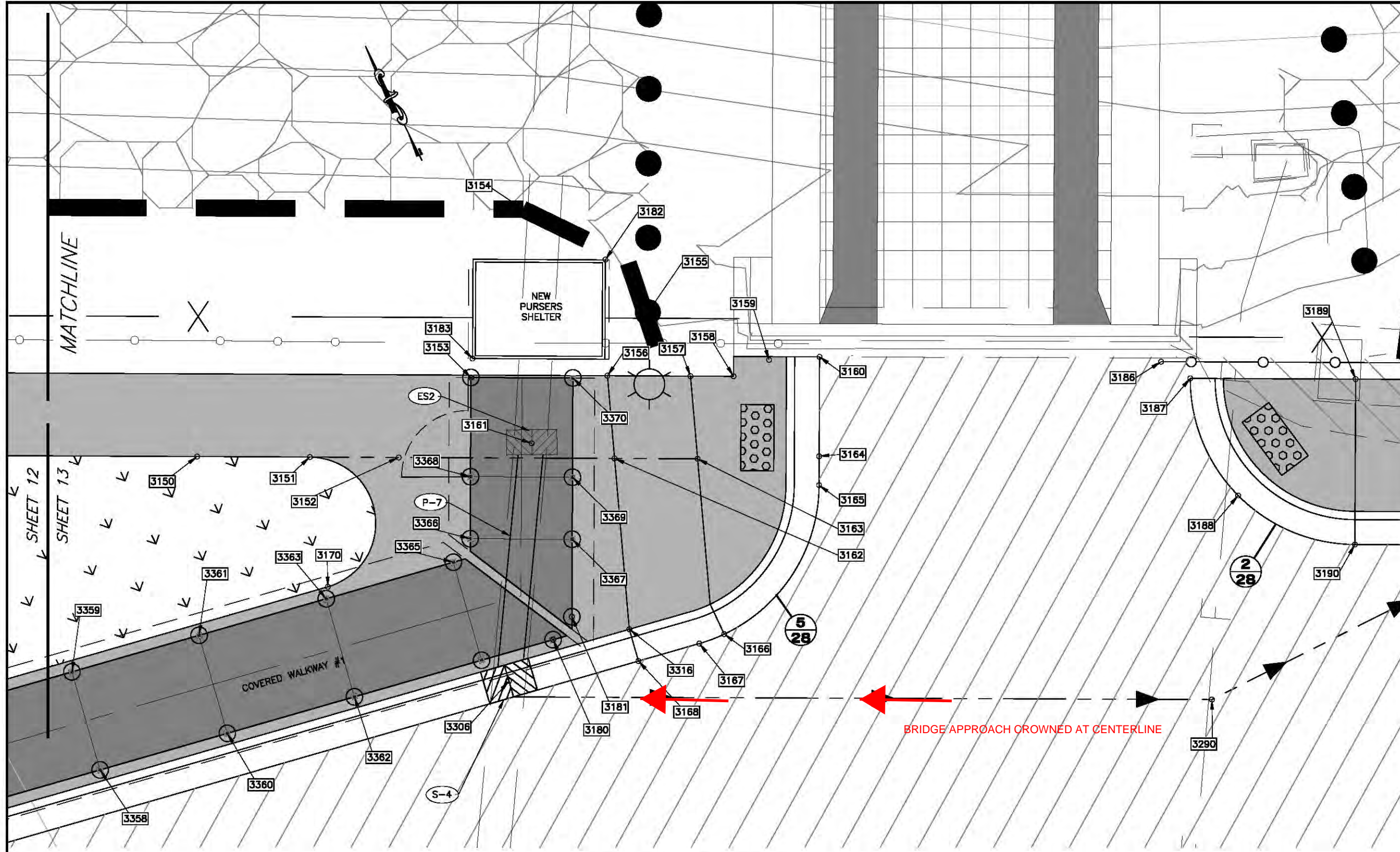
**HAINES FERRY TERMINAL  
 IMPROVEMENTS  
 PLANSET A**

**UPLANDS  
 IMPROVEMENTS**

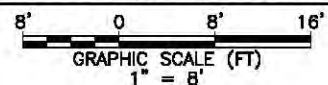
**WEST OF  
 BRIDGE**

PROJECT DESIGNATION  
**68433 / 0955014**

STATE	YEAR
<b>ALASKA</b>	<b>2014</b>
SHEET NUMBER	TOTAL SHEETS
<b>13A</b>	<b>57</b>



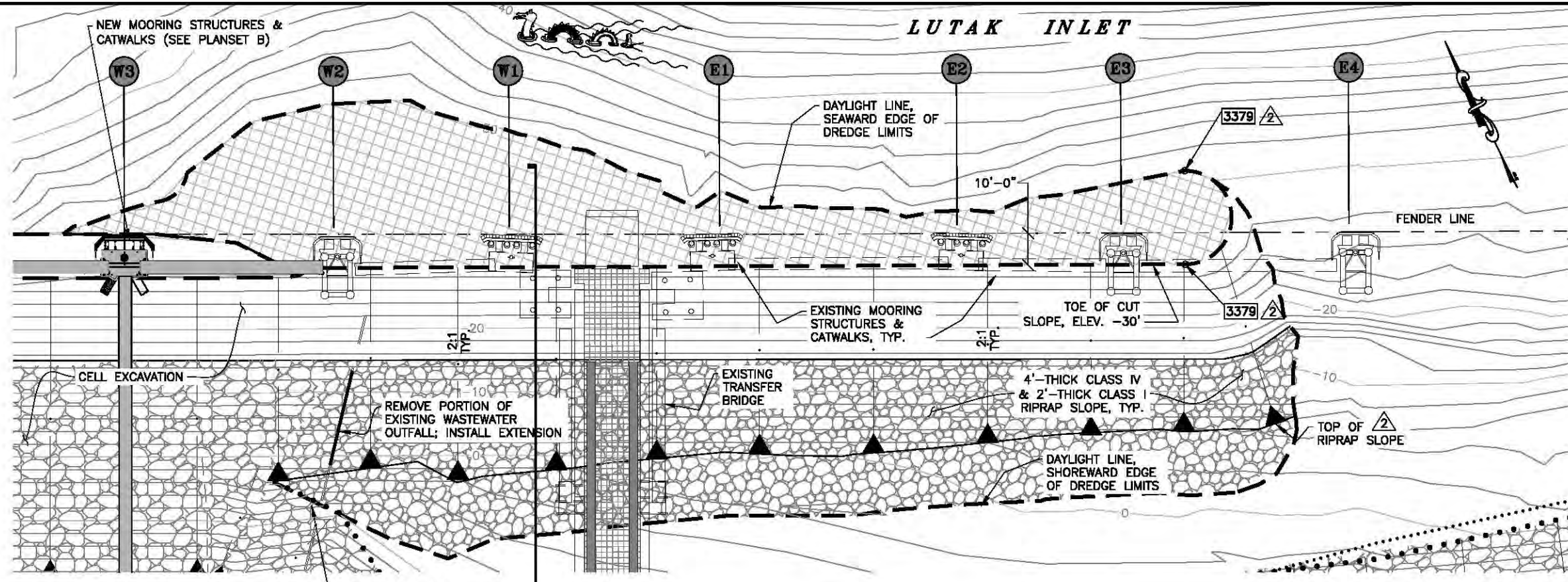
**IMPROVEMENTS PLAN**



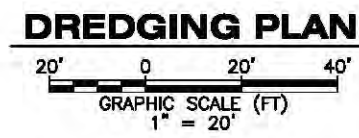
**LEGEND**

ARMOR ROCK	NEW COVERED WALKWAY
LANDSCAPING - GRASS	PAVED DRAINAGE SWALE
NEW ASPHALT PAVEMENT	LAYOUT POINT NUMBERS
NEW 4" CONCRETE SIDEWALK	

Record Drawings have been reviewed  
 by the Project Engineer, and represent  
 to the best of my knowledge, the  
 project as constructed.  
 PE *K. Miller* Date 12/13/16

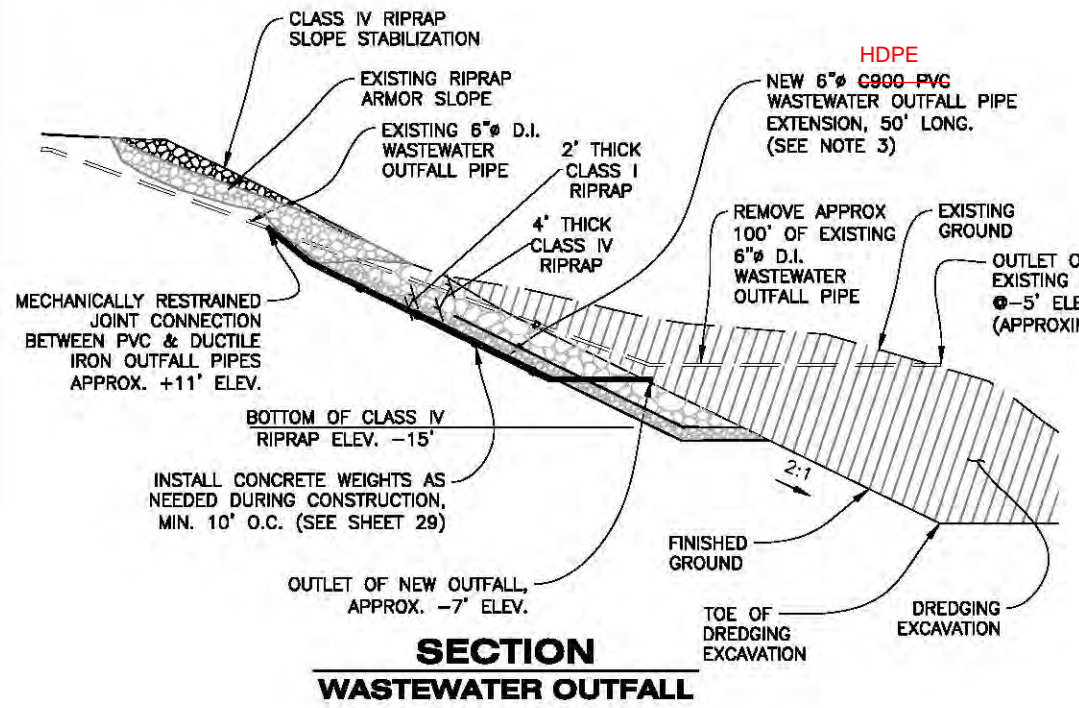


DREDGING DATA	
DREDGING AREA	0.8 ACRE
ESTIMATED DREDGE VOLUME	12,000 C.Y.

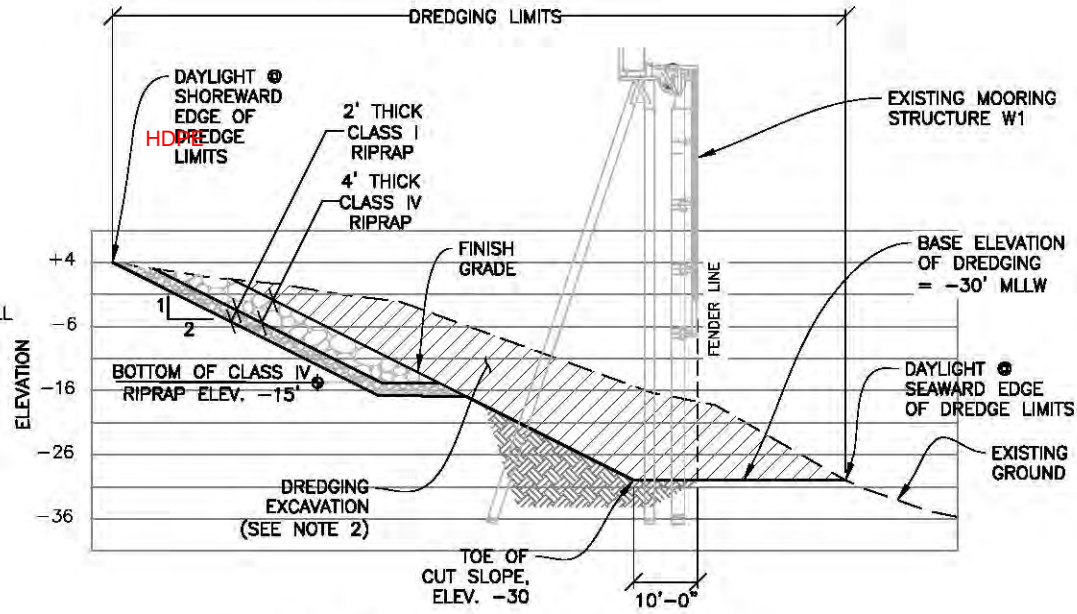


**LEGEND**

	DREDGE AREA
	CELL EXCAVATION AREA
	LAYOUT POINT NUMBERS



**SECTION WASTEWATER OUTFALL**



**1 TYPICAL SECTION DREDGING**

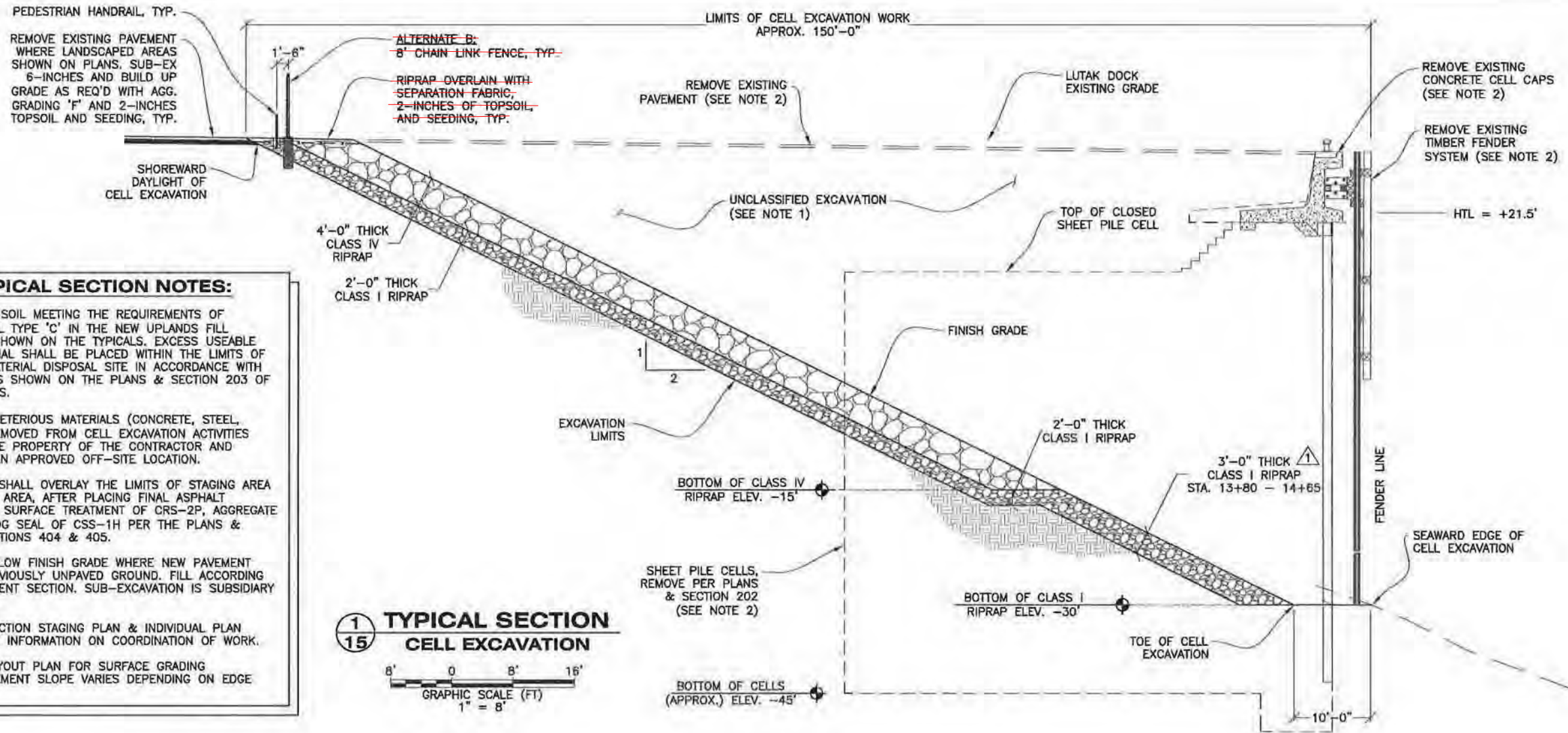
- NOTES:**
- CONSTRUCTION SHALL BE DONE IN STAGES IN ORDER TO MAINTAIN OPERATION OF THE HAINES FERRY TERMINAL & LUTAK DOCK DURING DURATION OF THE PROJECT. REFER TO THE CONSTRUCTION STAGING PLAN FOR LIMITATIONS ON SCHEDULING DREDGING ACTIVITIES.
  - DISPOSE OF DREDGING EXCAVATION MATERIAL WITHIN THE LIMITS OF THE APPROVED OFFSHORE DISPOSAL SITE. SEE APPENDIX B & SECTION 203 OF THE SPECIFICATIONS.
  - PHASE WORK FOR WASTEWATER OUTFALL REMOVAL & EXTENSION TO MAINTAIN SERVICE TO THE SANITARY SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES TO PROTECT NEW OUTFALL EXTENSION DURING PLACEMENT OF RIPRAP. REFER TO SECTION 626 AND THE CONTRACTOR'S CONSTRUCTION SEQUENCING PLAN.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

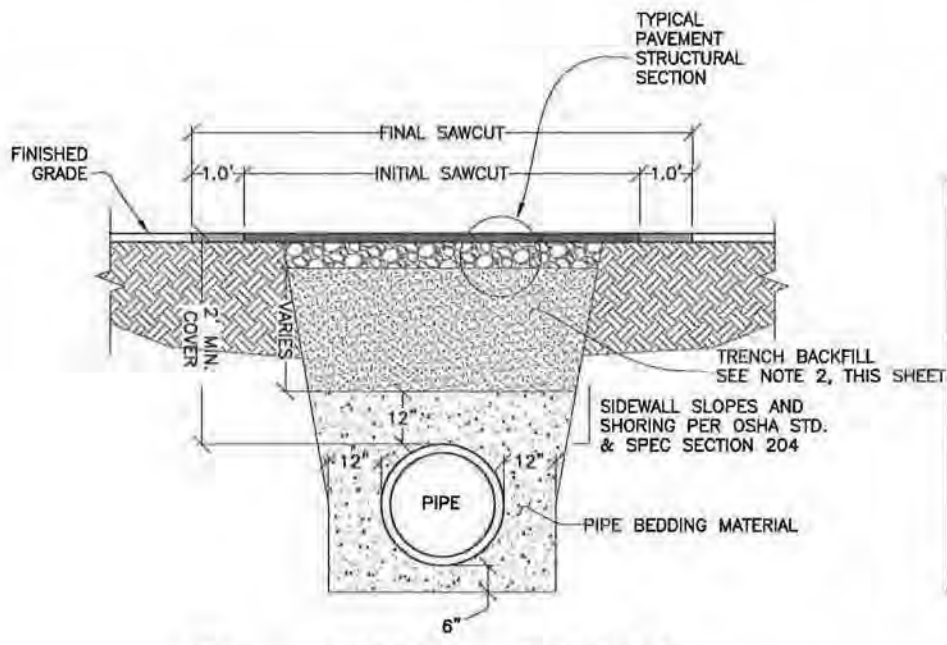
DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A
CHECKED BY: K. MILLER	<b>DREDGING PLAN &amp; WASTEWATER OUTFALL</b>
DRAWN BY: STAFF	PROJECT DESIGNATION: 68433 / 0955014
PATH: G:\HNS\88433\WFC\CONSTRUCTION\REVISED PLANSET DWGS\PLANSET A_REV14 - DREDGING PLAN_R2.DWG	YEAR: 2015
TAB: 14	SHEET NO.: 14
Monday, April 06, 2015 4:14:55 PM	TOTAL SHEETS: 57
OSBURN, JOEL D (DOT)	
REVISIONS	
NO. DATE DESCRIPTION	
2 4/1/15 REVISED DREDGING LIMITS	



- GENERAL TYPICAL SECTION NOTES:**
1. PLACE EXCAVATED SOIL MEETING THE REQUIREMENTS OF SELECTED MATERIAL TYPE 'C' IN THE NEW UPLANDS FILL EMBANKMENT AS SHOWN ON THE TYPICALS. EXCESS USEABLE EXCAVATION MATERIAL SHALL BE PLACED WITHIN THE LIMITS OF THE APPROVED MATERIAL DISPOSAL SITE IN ACCORDANCE WITH THE REQUIREMENTS SHOWN ON THE PLANS & SECTION 203 OF THE SPECIFICATIONS.
  2. UNUSEABLE & DELETERIOUS MATERIALS (CONCRETE, STEEL, ASPHALT, ETC.) REMOVED FROM CELL EXCAVATION ACTIVITIES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION.
  3. THE CONTRACTOR SHALL OVERLAY THE LIMITS OF STAGING AREA 1 & THE PARKING AREA, AFTER PLACING FINAL ASPHALT PAVEMENT, WITH A SURFACE TREATMENT OF CRS-2P, AGGREGATE GRADING 'F', & FOG SEAL OF CSS-1H PER THE PLANS & SPECIFICATION SECTIONS 404 & 405.
  4. SUB-EXCAVATE BELOW FINISH GRADE WHERE NEW PAVEMENT WILL OVERLAY PREVIOUSLY UNPAVED GROUND. FILL ACCORDING TO TYPICAL PAVEMENT SECTION. SUB-EXCAVATION IS SUBSIDIARY TO ITEM 203 (3).
  5. SEE THE CONSTRUCTION STAGING PLAN & INDIVIDUAL PLAN SHEETS FOR MORE INFORMATION ON COORDINATION OF WORK.
  6. REFER TO SITE LAYOUT PLAN FOR SURFACE GRADING INFORMATION. PAVEMENT SLOPE VARIES DEPENDING ON EDGE LAYOUT POINTS.

**1**  
**15**  
**TYPICAL SECTION**  
**CELL EXCAVATION**

GRAPHIC SCALE (FT)  
1" = 8"



**2**  
**TYPICAL SECTION**  
**PIPE TRENCH/PAVEMENT BREAK**

- TRENCHING NOTES:**
1. PATCH ALL PAVEMENT BREAKS IN THE EXISTING PARKING OR STAGING AREAS WITH COLD-MIX ASPHALT CONCRETE, CONCRETE, OR D-1 BASE COURSE SURFACING IF FINAL PAVEMENT CANNOT BE PLACED WITHIN 3-WEEKS OF EXISTING PAVEMENT REMOVAL. PLACE TEMPORARY SURFACING WITHIN 24 HOURS OF PAVEMENT REMOVAL. ALL TEMPORARY PAVEMENT PATCHES SHALL BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER UNTIL FINAL PAVEMENT IS PLACED.
  2. CONTRACTOR SHALL INCORPORATE USEABLE EXCAVATED MATERIALS IN TRENCH BACKFILL EXCEPT WHERE EXISTING MATERIALS ARE DETERMINED TO BE UNSUITABLE BY THE ENGINEER FOR RE-USE. IMPORT OF SELECTED MATERIALS FOR TRENCH BACKFILL SHALL ONLY BE UTILIZED AND PAID FOR WHEN AUTHORIZED BY THE ENGINEER. TRENCH BACKFILL SHALL MEET GRADATION REQUIREMENTS FOR SELECTED MATERIAL, TYPE B.
  3. EXCAVATION LIMITS SHALL NOT EXTEND INTO THE LUTAK ROAD PAVEMENT SECTION.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER

DRAWN BY: STAFF

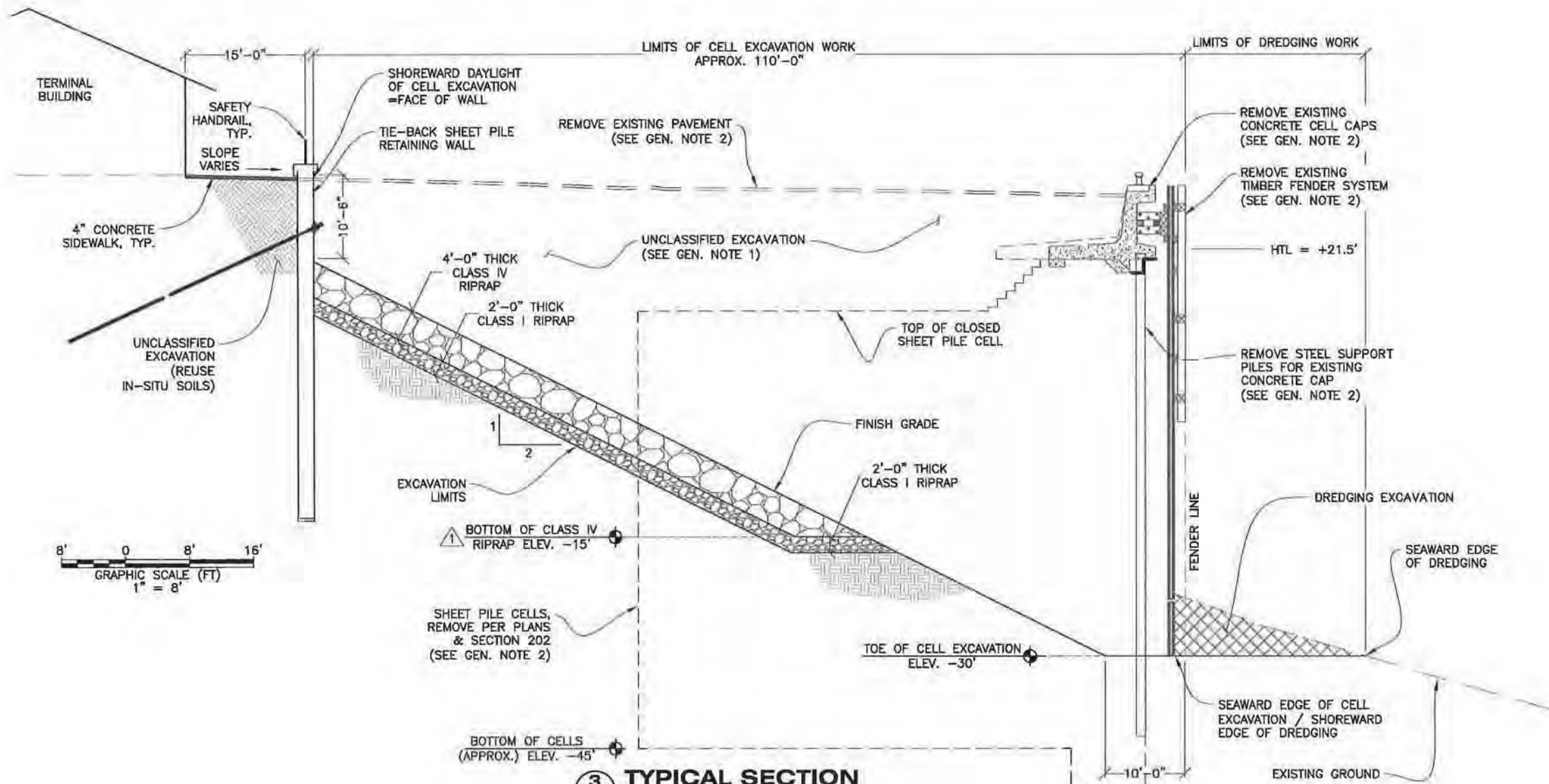
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

HAINES FERRY TERMINAL IMPROVEMENTS  
PLANSET A

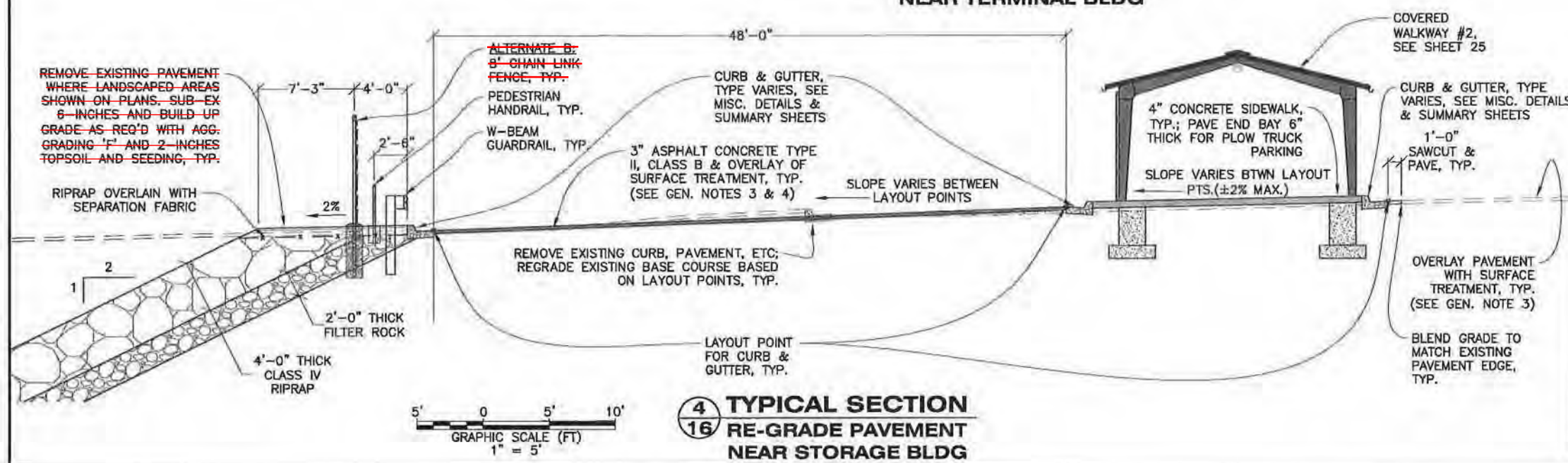
**TYPICAL SECTIONS**

PATH: D:\HNS\88433\PLANSET A\15-18 - TYPICAL SECTIONS\_R1.DWG  
TAB: 15 Wednesday, March 12, 2014 8:48:04 AM OSBURN, JOEL D. (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/10/14	RIPRAP STATIONING	68433 / 0955014	2014	15	57



**3**  
**16** **TYPICAL SECTION**  
**CELL EXCAVATION**  
**NEAR TERMINAL BLDG**



**4**  
**16** **TYPICAL SECTION**  
**RE-GRADE PAVEMENT**  
**NEAR STORAGE BLDG**

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

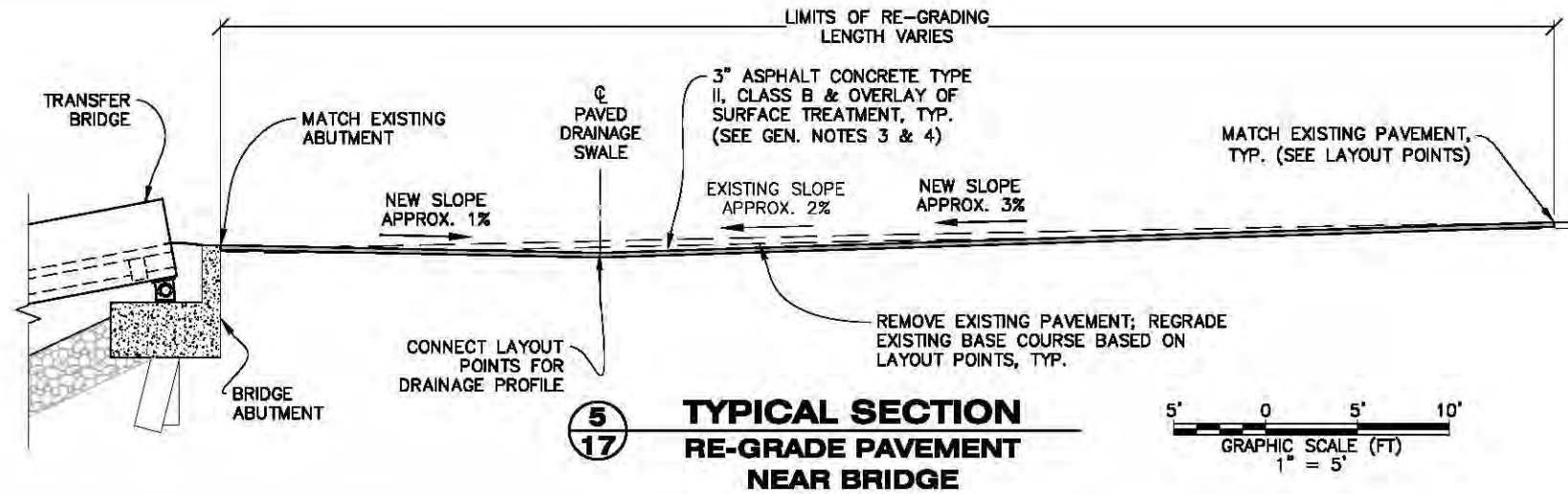


STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

**HAINES FERRY TERMINAL IMPROVEMENTS**  
**PLANSET A**

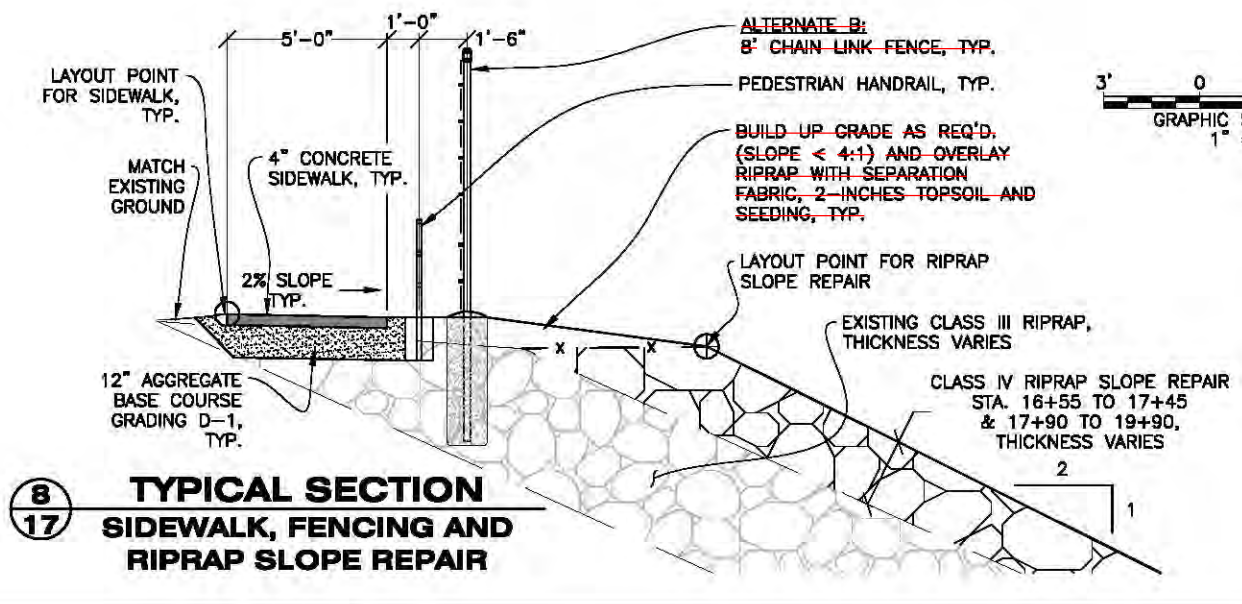
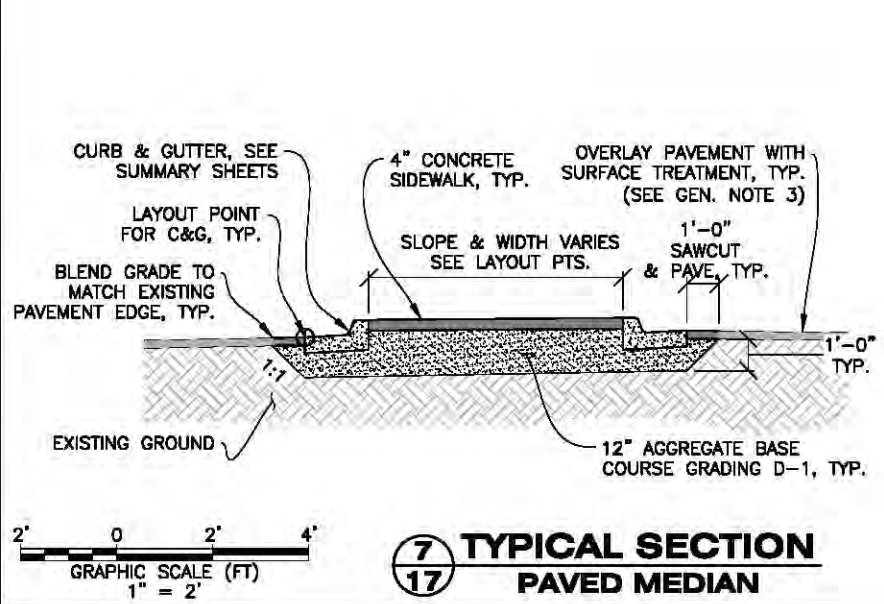
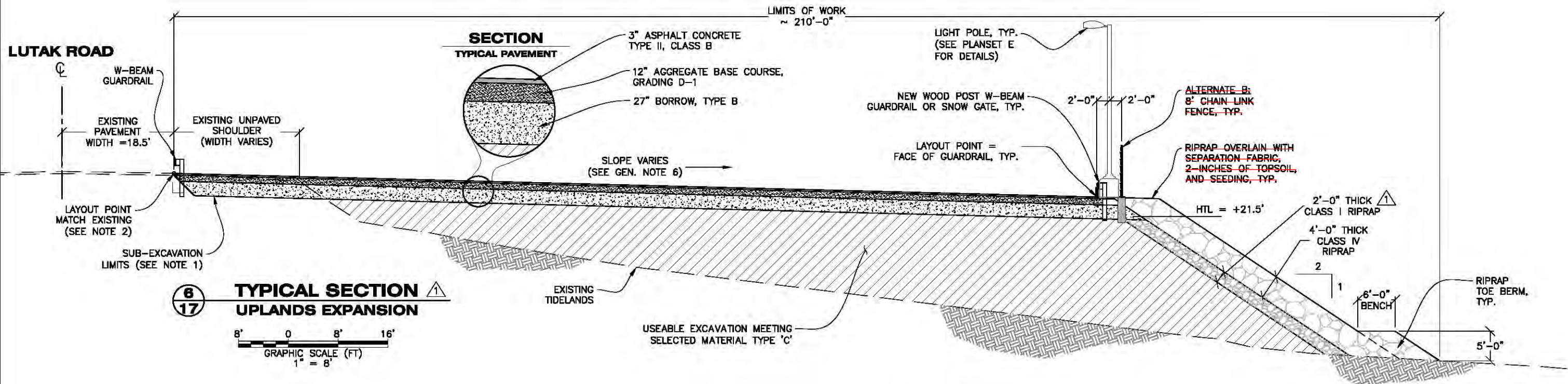
**TYPICAL SECTIONS**

DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: K. MILLER	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A			
DRAWN BY: STAFF	TYPICAL SECTIONS			
PATH: 0:\HNS\08423\PLANSET\MF\PLANSET A\15-16 - TYPICAL SECTIONS_R1.DWG	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
TAB: 16	68433 / 0955014	2014	16	57
REVISIONS				
NO. DATE DESCRIPTION				
1 3/10/14 NEW LOWER LIMIT OF CLASS I RIPRAP				



**NOTES:**

- SUB-EX. BELOW FINISH GRADE AS SHOWN ALONG THE UNPAVED SHOULDER NEXT TO LUTAK ROAD. SUB-EXCAVATION IS SUBSIDIARY TO ITEM 203 (3).
- DO NOT DAMAGE LUTAK ROAD PAVEMENT.

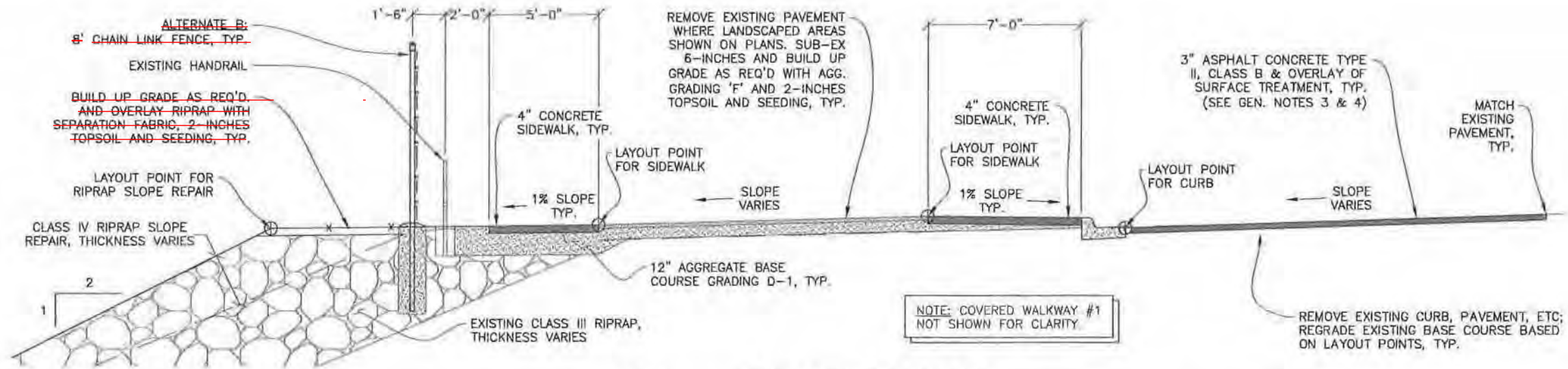


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

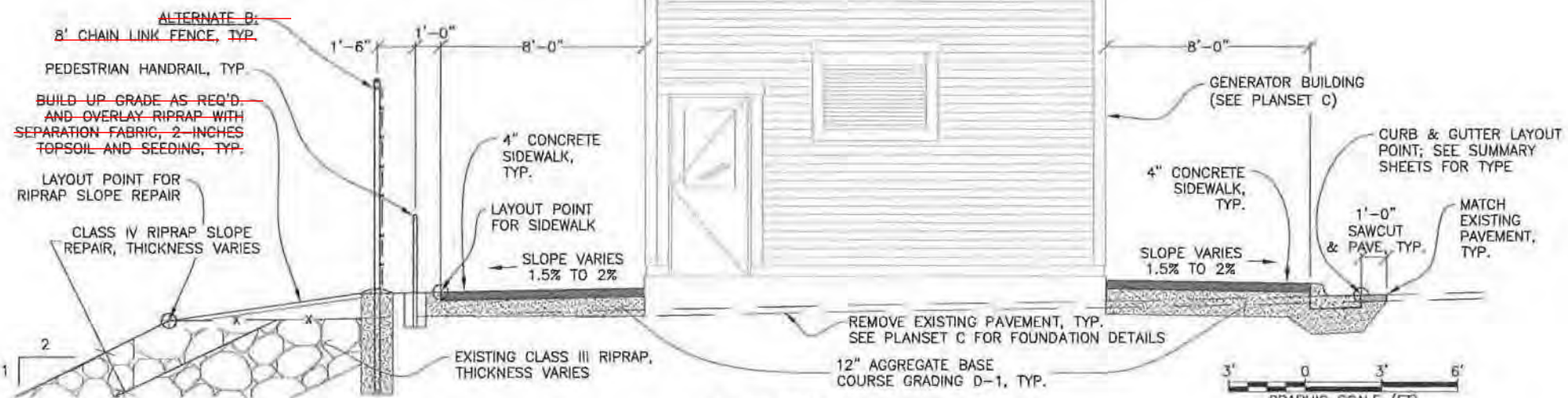
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

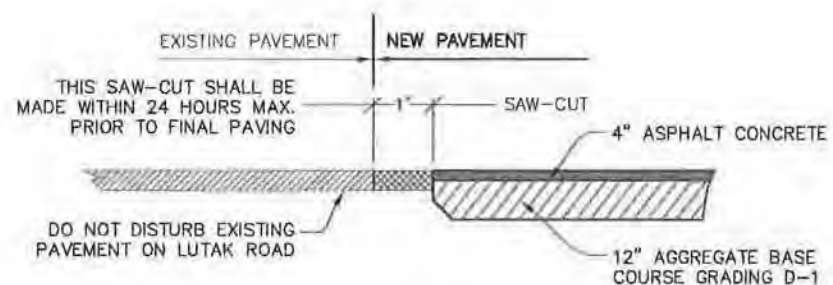
DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
CHECKED BY: K. MILLER	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A	
DRAWN BY: STAFF	TYPICAL SECTIONS	
DATE: 4/6/15	PROJECT DESIGNATION: 68433 / 0955014	
YEAR: 2014	SHEET NO.: 17	TOTAL SHEETS: 57



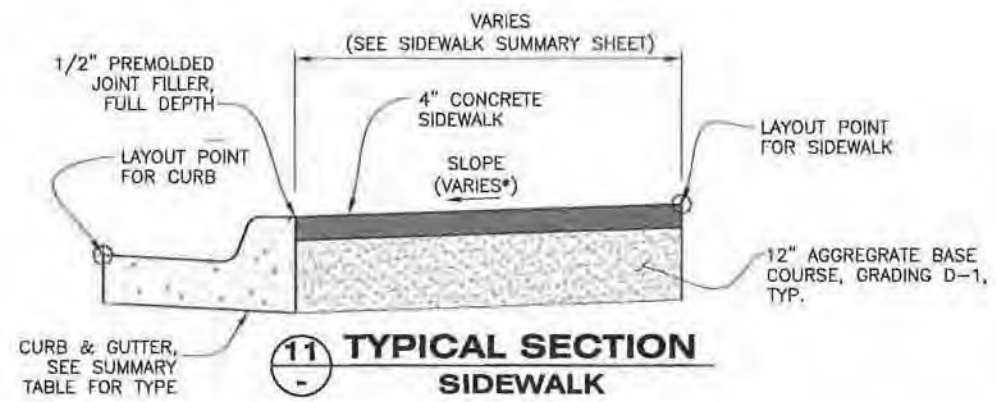
**9**  
**18** **TYPICAL SECTION**  
**SIDEWALKS & LANDSCAPED AREA**  
**NEAR TERMINAL BUILDING**



**10**  
**18** **TYPICAL SECTION**  
**UPLANDS @**  
**GENERATOR BUILDING**



**12** **TYPICAL SECTION**  
**PAVEMENT MATCH JOINT**



**11** **TYPICAL SECTION**  
**SIDEWALK**

\*SIDEWALK SLOPES SHALL BE A MAXIMUM OF ±2% AND CONNECTED BETWEEN LAYOUT POINTS OF CURB & SIDEWALKS.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS</b> <b>PLANSET A</b>	
CHECKED BY: K. MILLER DRAWN BY: STAFF		<b>TYPICAL SECTIONS</b>	
PATH: G:\HNS\68433\PLANSET\WP\PLANSET A\15-18 - TYPICAL SECTIONS.DWG TAB: 18 Tuesday, January 21, 2014 11:26:41 AM OSBURN, JOEL D (007)		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2014</b>
SHEET NO. <b>18</b>	TOTAL SHEETS <b>57</b>		



LAYOUT POINT TABLE				
#	STA	OFF	ELV	DESC
3001	10+10.87	96.88 RT	0.00	GRDRL BEGIN
3002	10+27.58	97.63 RT	0.00	GRDRL PC
3003	10+48.42	53.76 RT	0.00	GRDRL END
3004	10+48.48	77.60 RT	0.00	GRDRL PT
3005	10+10.35	81.69 RT	0.00	FENCE
3006	10+22.75	82.24 RT	0.00	FENCE
3007	10+47.11	73.41 RT	0.00	FENCE
3008	10+11.57	12.34 LT	0.00	LIGHT_POLE_L5
3009	10+12.60	25.74 LT	0.00	JBOX
3010	10+55.39	73.76 RT	0.00	60' GATE_POST
3011	11+15.33	76.33 RT	0.00	60' GATE_POST
3012	11+17.92	97.16 RT	0.00	LIGHT_POLE_L10
3013	11+24.03	97.45 RT	0.00	JBOX
3014	11+10.05	100.21 RT	0.00	GRDRL END
3015	11+73.67	104.21 RT	0.00	GRDRL BEGIN
3016	11+32.19	100.21 RT	0.00	FENCE
3017	10+36.03	90.38 RT	0.00	LIGHT_POLE_L32
3018	12+36.12	106.80 RT	0.00	GRDRL_MATCH
3019	12+41.61	104.30 RT	0.00	LIGHT_POLE_L11
3020	12+55.45	103.42 RT	0.00	JBOX
3021	13+35.56	110.92 RT	0.00	GRDRL_MATCH
3023	13+96.88	104.29 LT	0.00	LIGHT_POLE_L2
3024	15+82.22	102.68 LT	0.00	LIGHT_POLE_L13
3025	10+93.45	16.10 RT	0.00	CURB-RAMP_1
3026	10+99.64	22.30 LT	33.92	C&G_PC
3027	10+99.65	9.91 LT	34.00	C&G_PT
3028	11+63.95	21.84 LT	33.85	C&G_BEGIN
3029	11+63.96	9.90 LT	34.00	C&G_END
3030	11+68.98	13.39 LT	0.00	LIGHT_POLE_L6
3031	11+76.10	13.50 LT	0.00	JBOX
3032	11+05.56	103.66 LT	0.00	LIGHT_POLE_L4
3033	11+13.27	104.60 LT	0.00	JBOX
3034	12+48.51	103.53 LT	0.00	LIGHT_POLE_L3
3035	13+28.31	18.41 LT	0.00	LIGHT_POLE_L7
3036	13+96.74	21.95 LT	34.60	C&G_END
3037	13+96.75	12.08 LT	34.80	SDWK
3038	14+04.34	21.95 LT	34.60	C&G_END_TYPE-B
3039	14+90.87	13.65 LT	0.00	LIGHT_POLE_L8
3040	14+96.59	13.85 LT	0.00	JBOX
3041	14+92.04	10.21 LT	33.75	C&G_BEGIN_R=345'
3042	15+08.49	22.07 LT	33.85	C&G_PT
3043	15+87.72	37.07 LT	33.20	C&G_PC_R=218'
3044	16+02.92	43.02 LT	33.10	C&G_PT
3045	16+05.32	43.85 LT	33.07	C&G_TYPE-B
3046	16+06.52	27.57 LT	33.33	C&G_END_TYPE-A
3047	16+11.72	45.09 LT	33.05	C&G_END_TYPE-C
3048	16+12.57	29.57 LT	33.27	C&G_TYPE-C
3049	16+14.40	37.79 LT	0.00	CURB-RAMP_2
3050	16+14.54	45.22 LT	0.00	C&G_PC_R=32'
3051	16+16.89	45.23 LT	33.05	C&G_TYPE-C
3052	16+17.66	31.39 LT	33.25	C&G_PT
3053	16+22.89	45.24 LT	33.05	C&G_END_TYPE-A
3054	16+23.58	33.57 LT	33.15	C&G_PC_R=6'
3055	16+27.25	40.25 LT	0.00	LIGHT_POLE_L9
3056	13+96.76	105.97 LT	0.00	FENCE
3057	13+98.53	100.91 LT	32.80	C&G_BEGIN
3058	13+89.03	104.45 LT	0.00	JBOX
3059	14+08.65	105.92 RT	32.28	LIGHT_POLE_L12
3060	13+99.52	145.12 RT	31.85	C&G
3061	13+96.18	151.05 LT	0.00	FENCE
3062	13+18.87	157.99 LT	30.00	RIPRAP_EDGE
3063	13+19.11	145.58 LT	30.50	GRDRL_PC_R=112.41
3064	12+04.54	255.80 LT	28.50	GUARDRAIL_PT
3065	12+16.95	256.04 LT	28.50	RIPRAP_EDGE
3066	12+16.50	279.72 LT	28.50	RIPRAP_EDGE
3067	12+04.08	279.48 LT	28.50	END_GUARDRAIL
3069	14+18.37	145.46 LT	31.54	C&G_END_TYPE-A
3070	14+23.65	145.56 LT	31.60	C&G_BEGIN_TYPE-C
3071	14+23.33	147.56 LT	0.00	GRDRL
3072	14+23.26	151.56 LT	0.00	FENCE
3073	14+43.34	145.93 LT	31.27	C&G_END_TYPE-C
3074	14+43.23	151.93 LT	0.00	FENCE
3075	14+48.34	146.02 LT	31.20	C&G_BEGIN_TYPE-A
3076	14+76.94	170.92 LT	26.53	P2_END
3077	14+77.50	146.56 LT	30.80	C&G_S2
3078	14+77.60	141.58 LT	31.30	C&G_PC_R=10'
3079	14+85.66	146.40 LT	0.00	LIGHT_POLE_L1
3080	14+93.25	146.66 LT	0.00	JBOX
3081	14+92.50	125.03 LT	31.65	C&G_TYPE-A
3082	14+94.90	124.90 LT	31.75	C&G_PT_TYPE-C
3083	15+03.90	125.06 LT	0.00	CURB-RAMP_3

LAYOUT POINT TABLE				
#	STA	OFF	ELV	DESC
3084	15+21.41	125.37 LT	31.50	C&G_END_TYPE-A
3085	15+26.41	125.46 LT	31.46	C&G_BEGIN_TYPE-C
3086	15+34.41	125.61 LT	31.35	C&G_END_TYPE-C
3087	15+39.40	125.70 LT	31.32	C&G_BEGIN_TYPE-A
3088	15+44.74	125.80 LT	31.30	S1
3090	15+38.22	135.68 LT	31.72	SDWK
3091	15+22.08	143.40 LT	31.00	STORAGE_BLDG
3092	15+20.78	150.44 LT	0.00	FENCE
3093	15+20.53	160.11 LT	0.00	FENCE
3094	15+38.53	160.56 LT	0.00	FENCE
3095	15+38.71	150.90 LT	0.00	FENCE
3096	15+41.13	151.24 LT	0.00	FENCE
3097	15+29.30	155.48 LT	0.00	1000-GAL_AST
3098	15+43.61	162.23 LT	30.60	RIPRAP_EDGE
3099	15+46.73	155.70 LT	30.60	EDGE_PAVEMENT
3100	15+45.23	157.14 LT	31.77	WALL_CENTERLINE
3101	15+44.91	170.84 LT	31.77	WALL_CENTERLINE
3102	15+58.38	184.96 LT	31.77	WALL_CENTERLINE
3103	15+64.80	165.47 LT	31.00	SDWK
3104	15+65.03	156.13 LT	31.05	SDWK
3105	15+48.54	135.87 LT	31.72	SDWK
3106	15+55.03	137.51 LT	0.00	VAULT_V2
3107	15+51.92	132.56 LT	0.00	VAULT_V1
3108	15+65.74	128.18 LT	31.85	SDWK
3109	15+66.50	98.20 LT	32.60	SDWK
3110	15+47.26	99.84 LT	32.10	C&G
3111	14+88.39	98.75 LT	32.90	C&G
3112	14+63.89	98.30 LT	33.24	C&G_END_TYPE-A
3113	14+58.89	98.21 LT	33.20	C&G_BEGIN_TYPE-C
3114	14+40.89	97.87 LT	33.05	C&G_PC_R=5'
3115	14+35.99	92.78 LT	33.15	C&G_PT
3116	14+36.26	78.35 LT	33.45	C&G_PC_R=5'
3117	14+41.35	73.44 LT	33.45	C&G_PT
3118	14+59.35	73.78 LT	33.60	C&G_END_TYPE-C
3119	14+64.35	73.87 LT	33.64	C&G_BEGIN_TYPE-A
3120	15+12.50	74.76 LT	32.87	C&G
3121	15+38.34	75.24 LT	32.81	C&G
3122	15+54.19	85.51 LT	0.00	VAULT_V3
3123	15+59.21	81.79 LT	0.00	VAULT_V4
3124	15+67.05	75.77 LT	32.40	C&G
3125	15+74.56	75.91 LT	32.20	S3
3126	15+74.80	69.44 LT	32.40	ES1
3127	15+92.49	76.24 LT	32.50	C&G_PC_R=20'
3128	16+05.65	81.51 LT	32.50	C&G_PT
3129	16+09.74	85.27 LT	32.48	C&G_END
3130	16+32.28	170.07 LT	0.00	P4_BEGIN_6
3131	16+33.76	186.73 LT	31.77	WALL_CENTERLINE
3132	16+40.15	184.25 LT	31.77	WALL_CENTERLINE
3133	16+40.35	170.26 LT	30.65	SDWK
3134	16+55.03	170.06 LT	31.77	WALL_CENTERLINE
3135	16+61.56	170.23 LT	30.60	RIPRAP_REPAIR
3136	16+56.45	161.19 LT	30.45	SDWK
3137	16+57.16	161.89 LT	0.00	FENCE
3138	16+70.46	164.48 LT	0.00	P4_END
3139	16+54.55	154.59 LT	0.00	FENCE
3140	16+61.40	147.72 LT	0.00	FENCE
3141	16+57.60	127.62 LT	0.00	FENCE
3142	16+49.74	129.10 LT	0.00	FENCE
3143	16+70.09	147.50 LT	30.10	SDWK
3144	16+81.69	128.78 LT	29.90	SDWK
3145	16+83.73	133.82 LT	29.85	SDWK
3146	16+83.82	137.27 LT	0.00	FENCE
3147	16+87.43	138.53 LT	28.82	BEGIN-P5
3148	16+87.80	143.90 LT	29.80	RIPRAP_REPAIR
3149	16+91.76	147.97 LT	28.60	P5_END
3150	17+17.86	129.47 LT	29.70	SDWK
3151	17+24.68	129.60 LT	29.55	SDWK_PC-R=4'
3152	17+30.05	129.70 LT	29.45	BREAKLINE
3153	17+34.30	134.63 LT	29.31	WW1_BASE_13N
3154	17+37.22	144.87 LT	29.30	RIPRAP_REPAIR
3155	17+45.01	138.96 LT	0.00	LIGHT_POLE_L22
3156	17+42.55	134.93 LT	29.15	SDWK
3157	17+47.57	135.03 LT	28.70	SDWK
3158	17+50.17	135.08 LT	28.70	SDWK
3159	17+52.30	136.12 LT	0.00	FENCE
3160	17+55.35	136.37 LT	28.60	C&G_END
3161	17+38.07	130.74 LT	29.32	ES2
3162	17+43.10	129.94 LT	29.20	BREAKLINE
3163	17+48.12	130.04 LT	28.68	SDWK
3164	17+55.46	130.37 LT	28.56	CURB-RAMP_4
3165	17+55.50	128.62 LT	28.55	C&G_PT

LAYOUT POINT TABLE				
#	STA	OFF	ELV	DESC
3166	17+49.98	119.48 LT	28.48	C&G_BEGIN_TYPE-C
3167	17+48.49	118.88 LT	28.47	C&G_PC_R=5'
3168	17+44.83	117.73 LT	28.44	C&G_END_TYPE-A
3169	17+37.33	115.39 LT	28.40	S4
3170	17+25.95	121.78 LT	29.31	SDWK-PT
3171	16+82.48	98.22 LT	30.60	C&G_PT
3172	16+80.60	97.90 LT	30.60	C&G_PC_R=7'
3173	16+74.35	97.72 LT	30.74	C&G
3174	16+63.92	97.41 LT	31.00	C&G_BEGIN
3175	16+63.64	106.90 LT	31.60	SDWK
3176	16+79.95	107.38 LT	31.12	SDWK
3180	17+39.64	118.90 LT	29.00	WW1_BASE_10C
3181	17+40.74	120.32 LT	28.94	WW1_BASE_11C
3182	17+42.26	141.93 LT	29.30	FF-PURS-SHLTR
3184	17+39.26	166.55 LT	15.34	BEGIN-P6
3185	17+39.47	172.55 LT	15.20	P6_END
3186	17+76.00	136.57 LT	0.00	FENCE
3187	17+77.79	135.60 LT	28.60	C&G_BEGIN_R=10'
3188	17+80.85	128.59 LT	28.42	CURB-RAMP_5
3189	17+87.79	135.79 LT	28.52	SDWK
3190	17+87.98	125.79 LT	28.25	C&G_PT
3191	17+95.96	146.68 LT	28.00	RIPRAP_REPAIR
3192	17+97.31	150.97 LT	23.60	P10_END
3193	17+97.91	125.98 LT	28.00	S5
3194	18+31.22	159.74 LT	18.74	P8_BEGIN
3195	18+31.94	165.70 LT	18.57	P8_END
3196	18+28.28	135.29 LT	28.62	SDWK
3197	18+41.12	134.04 LT	28.62	SDWK
3198	18+40.35	126.08 LT	28.78	SDWK
3199	18+64.55	123.72 LT	28.70	SDWK
3200	18+65.18	131.70 LT	28.54	SDWK
3201	18+92.17	139.75 LT	27.00	RIPRAP_REPAIR
3202	18+98.38	130.98 LT	0.00	FENCE
3203	18+98.42	131.41 LT	0.00	FENCE
3204	18+98.13	128.50 LT	27.30	C&G_PT
3205	18+98.02	127.43 LT	27.30	C&G-END GRDRL-BEGIN
3206	18+95.55	117.44 LT	27.44	CURB-RAMP_6
3207	18+74.46	116.94 LT	0.00	TRANSFORMER
3208	18+70.20	110.11 LT	0.00	PHONE_PEDESTAL
3209	18+74.71	110.77 LT	0.00	LIGHT_POLE_L24
3210	18+62.79	105.64 LT	29.00	SDWK
3211	18+85.43	103.72 LT	27.82	C&G_MIDPOINT
3212	18+59.82	95.90 LT	28.30	C&G_PC_R=32'
3213	18+37.64	98.04 LT	28.50	C&G_PT
3214	18+34.02	103.32 LT	0.00	LIGHT_POLE_L23
3215	18+38.59	107.99 LT	29.11	SDWK
3216	18+39.08	113.05 LT	28.81	SDWK
3217	18+28.84	108.95 LT	28.45	C&G_PC_R=7'
3218	18+29.14	114.02 LT	2	

**606 GUARDRAIL SUMMARY** <sup>1</sup>

SECTION	START POINT	END TERMINAL	END POINT	END TERMINAL	LENGTH	REMARKS
1	3001	RECONSTRUCTED CRT	3003	RECONSTRUCTED CRT	65	BREAK GUARDRAIL @ FENCE GATE
2	3014	RECONSTRUCTED CRT	3015	(CONNECT TO EXISTING)	65	
3	3018	(CONNECT TO EXISTING)	3021	(CONNECT TO EXISTING)	100	
4	3231	RECONSTRUCTED PET	-	-	-	
5	3234	(CONNECT TO EXISTING)	3251	RECONSTRUCTED PET	500	
6	3254	CRT	3268	-	105	
7	3270	-	3278	-	230	
8	3280	-	3205	-	310	
9	3302	-	3383	-	35	
10	3071	-	3066	-	305	

TOTAL= 1715

**608(1A) 4"-THICK SIDEWALK SUMMARY**

SECTION	START POINT	END POINT	WIDTH	LENGTH	AREA (S.Y.)	REMARKS
1	3028	3029	8.0	43	40	
2	3036	3037	VARIES	105	265	
3	3109	3113	20.5	130	300	
4	3109	3103	17.0	58	110	
5	3090	3105	8.0	10	10	
6	3101	3136	VARIES	VARIES	200	
7	3136	3162	5.0	110	65	
8	3175	3162	7.0	95	90	
9	3187	3205	VARIES	VARIES	165	

TOTAL = 1250

**608 (6) CURB RAMPS SUMMARY**

RAMP#	POINT #	TYPE	ENTER C&G	EXIT C&G
1	3025	RAMPED ISLAND END	A	A
2	3049	THRU SIDEWALK	B	B
3	3083	TRASH BIN APRON	A	C
4	3164	TWO-WAY	A	-
5	3188	TRAVERSABLE	-	C
6	3206	PERPENDICULAR	C	-

**NOTES:**

- ALL CURB & GUTTER LOCATIONS ARE REFERENCED TO THE EDGE OF PAVEMENT/EDGE OF GUTTER PAN.
- LOCATIONS FOR CURB INLETS ARE REFERENCED TO THE EDGE OF PAVEMENT. LOCATIONS FOR FIELD INLETS ARE REFERENCED TO CENTER OF GRATE/LID.
- INLET ELEVATIONS ARE REFERENCED TO THE EDGE OF PAVEMENT WITHOUT THE STANDARD DEPRESSION.
- PIPE INVERT ELEVATIONS ARE REFERENCED TO THE BOTTOM OF PIPE I.D.
- GUARDRAIL LOCATIONS ARE REFERENCED TO THE INTERSECTION OF PAVEMENT ELEVATION AND FACE OF GUARDRAIL.
- ALL STORM DRAIN MANHOLES ARE REQUIRED TO HAVE AN 18-INCH SUMP. MANHOLES WITH PETROLEUM SEPARATORS SHALL HAVE A 24-INCH SUMP.
- SEE THE MISCELLANEOUS DETAIL SHEETS FOR PLAN, SECTION & ELEVATION VIEWS OF UPLAND FEATURES REFERENCED ON THIS SHEET.

**609 CURB & GUTTER SUMMARY**

SECTION	START POINT	END POINT	TYPE	LENGTH	REMARKS
1	3028	3026	A	50	
2	3027	3029	B	50	
3	3089	3129	A	380	
4	3089	3081	C	55	
5	3081	3073	A	60	
6	3073	3070	C	20	
7	3070	3057	A	70	
8	3038	3045	B	205	
9	3045	3053	C	20	
10	3053	3054	A	20	
11	3054	3046	C	20	
12	3046	3041	A	120	
13	3174	3160	A	110	
14	3187	3217	C	60	
15	3217	3204	A	90	

**608(1B) 6"-THICK SIDEWALK SUMMARY**

SECTION	START POINT	END POINT	WIDTH	LENGTH	AREA (S.Y.)	REMARKS
1	3113	3115	21	21	46	6"-THICK APRON @ END BAY OF COVERED WALKWAY #2
2	3072	3074	12	24	32	6"-THICK APRON @ SNOW GATE
3	3281	3279	12	24	32	6"-THICK APRON @ SNOW GATE
4	3271	3269	12	24	32	6"-THICK APRON @ SNOW GATE
5	3083	-	6	18	14	6"-THICK APRON FOR TRASH BINS

TOTAL = 160

**603 PIPE SUMMARY** <sup>1</sup>

PIPE LABEL	PIPE & SIZE	FROM	INLET INV.	TO	OUTLET INV.	CEN-CEN LENGTH	PIPE SLOPE	REMARKS
EP1	18" CMP	EXISTING MH	24.8	ES1	22.9	185.0	1.0%	EXISTING PROVIDED FOR INFORMATIONAL PURPOSES ONLY
EP2	18" CMP	ES1	22.6	EXISTING MH	20.6	155.0	1.3%	
EP3	18" CMP	EXISTING MH	17.2	ES2	16.4	71.0	1.1%	
P-1	18" CPP	PT #3304	27.0	PT #3300	26.0	47.0	2.0%	
P-2	18" CPP	PT #3303	27.0	PT #3076	26.5	24.0	2.0%	
P-3	18" CPP	PT #3305	26.5	PT #3381	26.2	7.0	4.3%	
P-4	4" PVC	EXISTING	N/A	PT #3138	TBD	39.0	2.0%	CONNECT TO EXISTING EAVE DOWNSPOUT
P-5	4" PVC	EXISTING	28.8	PT #3149	28.6	10.0	2.0%	CONNECT TO EXISTING 4" EAVE DRAIN PIPE OUTLET
P-6	24" CMP	EXISTING	15.3	PT #3185	15.2	6.0	2.0%	CONNECT TO EXISTING PIPE
P-7	18" CPP	PT #3306	24.1	ES2	23.8	14.0	2.1%	KNOCKOUT IN ES2
P-8	3'-9"x-5'-2" CAP	PT #3194	18.7	PT #3195	18.6	8.0	2.0%	CONNECT TO EXISTING ARCH PIPE
P-9	24" CMP	PT #3249	22.1	PT #3273	18.9	160.0	2.0%	CONNECT TO EXISTING PIPE
P-10	18" CPP	PT #3382	24.1	PT #3192	23.6	25.0	2.0%	

**604 DRAINAGE STRUCTURE SUMMARY**

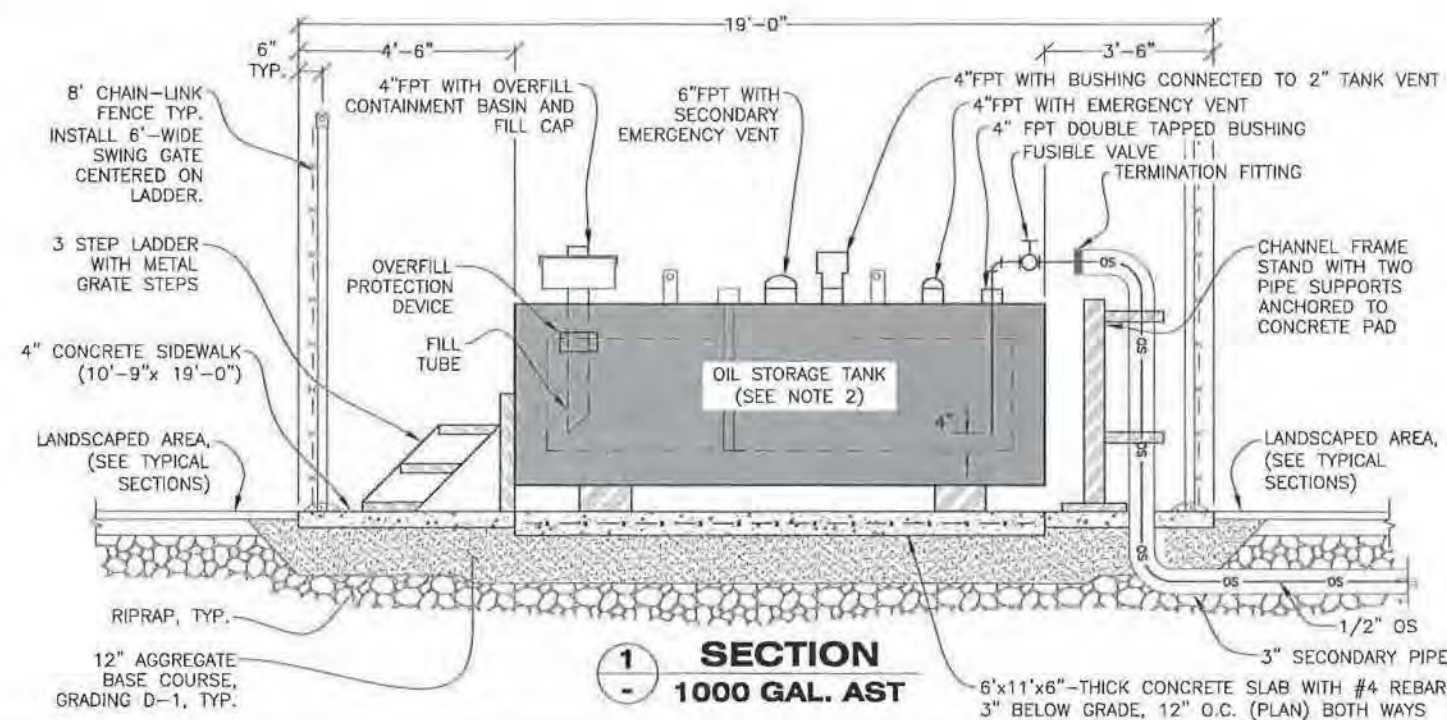
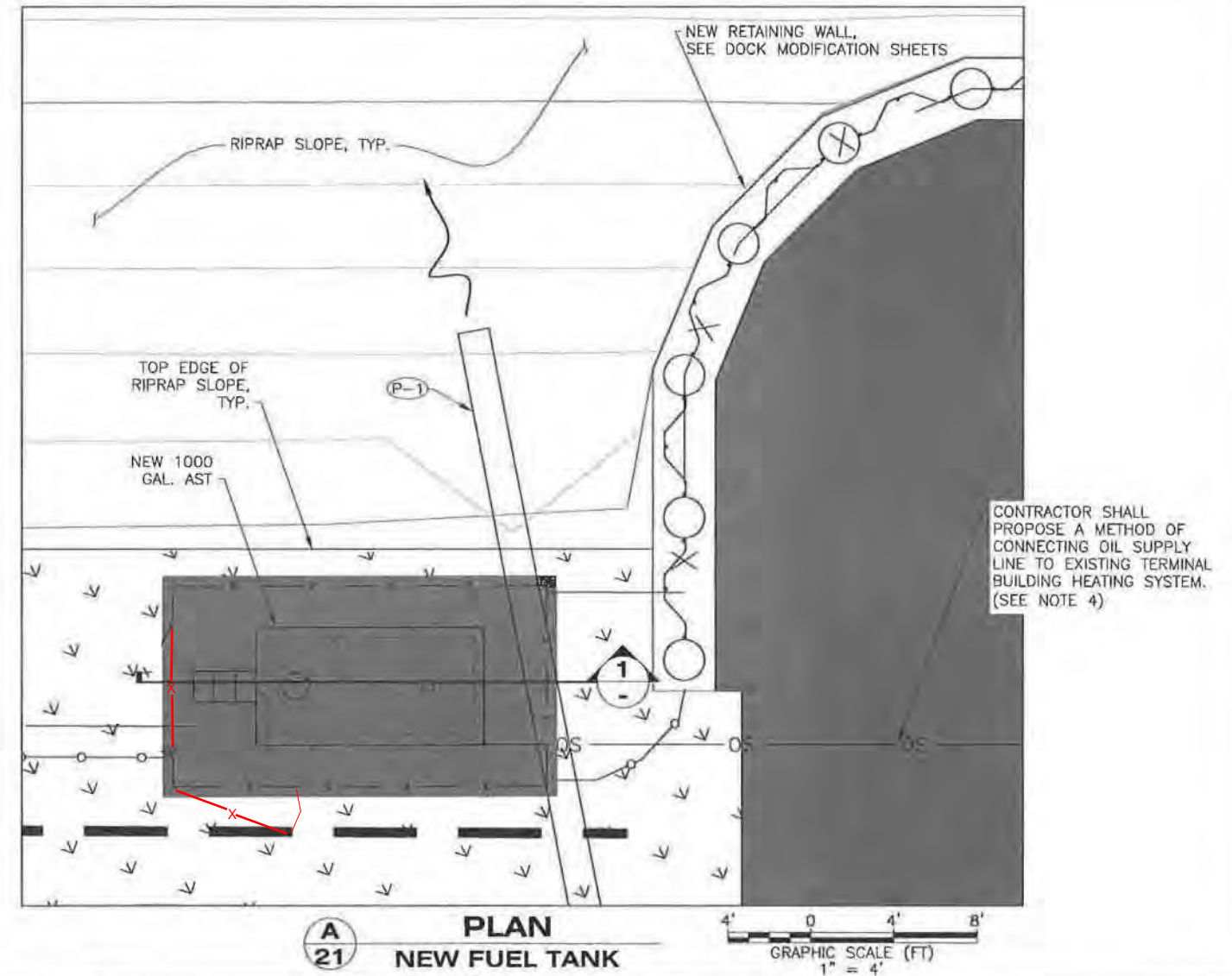
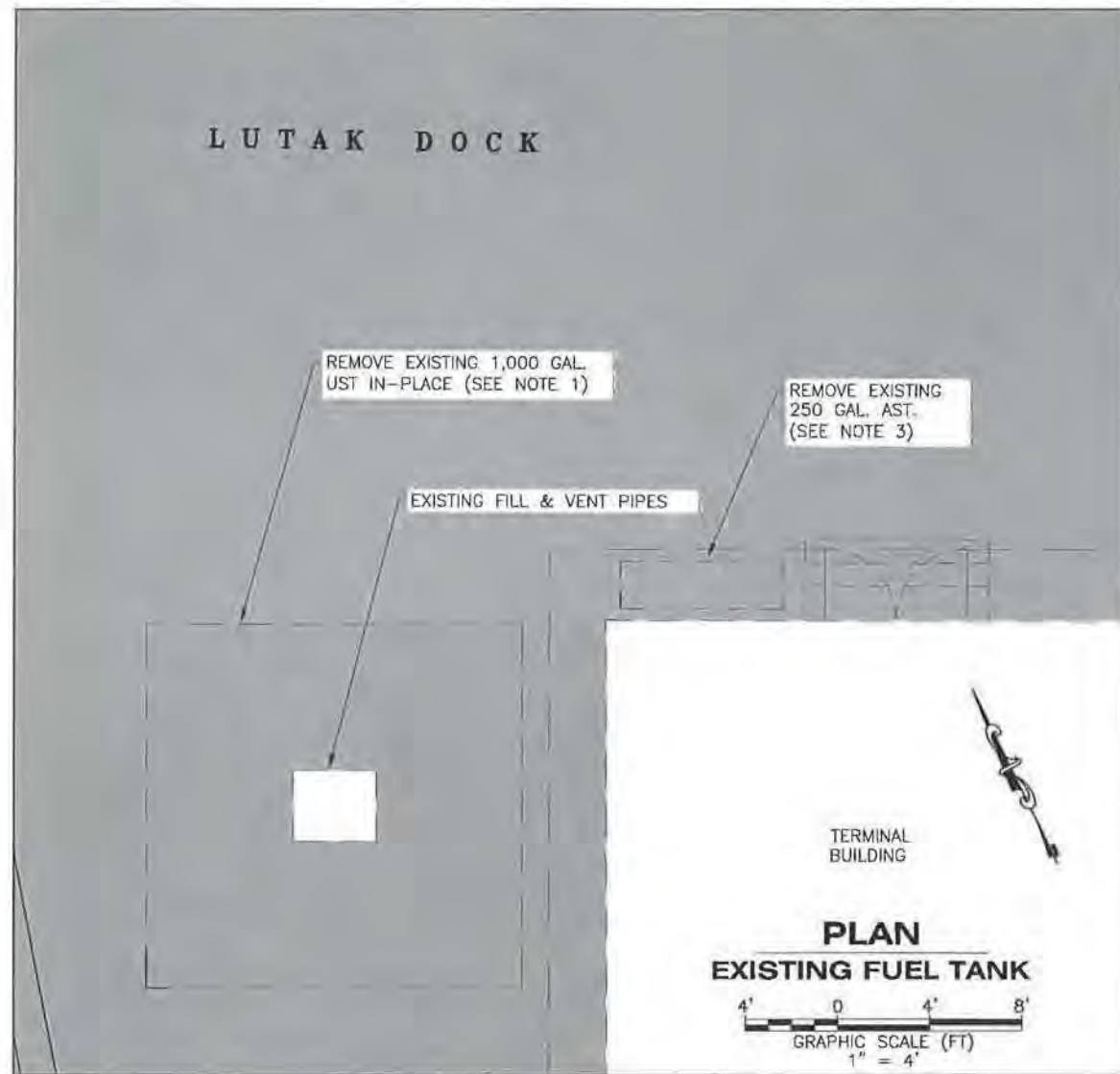
MH #	PNT. #	TYPE	GRATE/LID ELEVATION	REMARKS
ES1	3126	A	32.4	REPLACE FRAME WITH MANHOLE LID & FRAME, NEENAH R-1801 E; INSTALL LID LEVEL WITH NEW PAVEMENT SURFACE
ES2	3161	2	29.3	REPLACE FRAME WITH MANHOLE LID & FRAME, NEENAH R-1801 E; INSTALL LID LEVEL WITH NEW SIDEWALK SURFACE
S-1	3088	A	31.3	OIL/H2O SEPARATOR
S-2	3077	A	30.8	OIL/H2O SEPARATOR
S-3	3125	A	32.3	OIL/H2O SEPARATOR
S-4	3169	1	28.0	OIL/H2O SEPARATOR
S-5	3193	A	27.8	OIL/H2O SEPARATOR

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET A</b>	
CHECKED BY: K. MILLER	<b>SUMMARY TABLES</b>	
DRAWN BY: STAFF	PROJECT DESIGNATION	
PATH: G:\HNS\68433\MF\CONSTRUCTION\REVISED PLANSET DWGS\PLANSET A_REV19-20 - SUMMSHTS_R2.DWG	YEAR	TOTAL SHEETS
TAB: 20 Monday, April 06, 2015 11:18:13 AM OSBURN, JOEL D (DOT)	68433 / 0955014	2015 20 57
NO. DATE DESCRIPTION	UPDATED SUMMARY TABLES	
1 4/1/15		



- GENERAL NOTES**
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL NEARBY UTILITIES PRIOR TO BEGINNING WORK.
  2. THE 1000-GALLON (NOMINAL) ABOVEGROUND OIL STORAGE TANK SHALL BE MANUFACTURED BY CONVAULT, ARMOR CAST, OR APPROVED EQUAL TANK SHALL BE INSULATED, FIRERATED, & MEET UL 2085. TANK SHALL CONSIST OF PRIMARY STEEL TANK AND SECONDARY CONTAINMENT ENCASED IN MINIMUM OF 6 INCHES CONCRETE. TANK SHALL HAVE MINIMUM 30 YEAR WARRANTY. PROVIDE LEG STAND AND SUPPORTS. ALSO PROVIDE CONTAINMENT FILL WITH LOCKING FUEL CAP, T-STYLE OIL VENT, ANALOG FUEL GAGE, DOUBLE TAPPED BUSHING FOR OIL SUPPLY PIPING, AND EMERGENCY VENTS.
  3. SEQUENCE REMOVAL OF EXISTING 250 GAL. AST & INSTALLATION OF NEW 1000 GAL. AST SO THAT FUEL SERVICE TO HEATING SYSTEM IS MAINTAINED THROUGH DURATION OF PROJECT.
  4. INSTALL 1/2" OS INSIDE 3" CONTAINMENT PIPING FROM TANK SUMP TO TERMINAL BUILDING USING REQUIRED CONNECTION AND TERMINATION FITTINGS. EXTEND CONTAINMENT PIPING 6-INCHES INSIDE TERMINAL BUILDING WALL. TEST PRIOR TO BACKFILLING.
  5. SEE SPECIFICATION SECTION 628 FOR ADDITIONAL REQUIREMENTS FOR TANK REMOVAL & INSTALLATION.

**LEGEND**

- ASPHALT PAVEMENT TO REMOVE
- NEW CONCRETE SIDEWALK/SLAB

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS, IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER

DRAWN BY: STAFF

PATH: Q:\VMS\88433\PLANSET\MP\PLANSET A\21 - UST REMOVAL & NEW AST.DWG

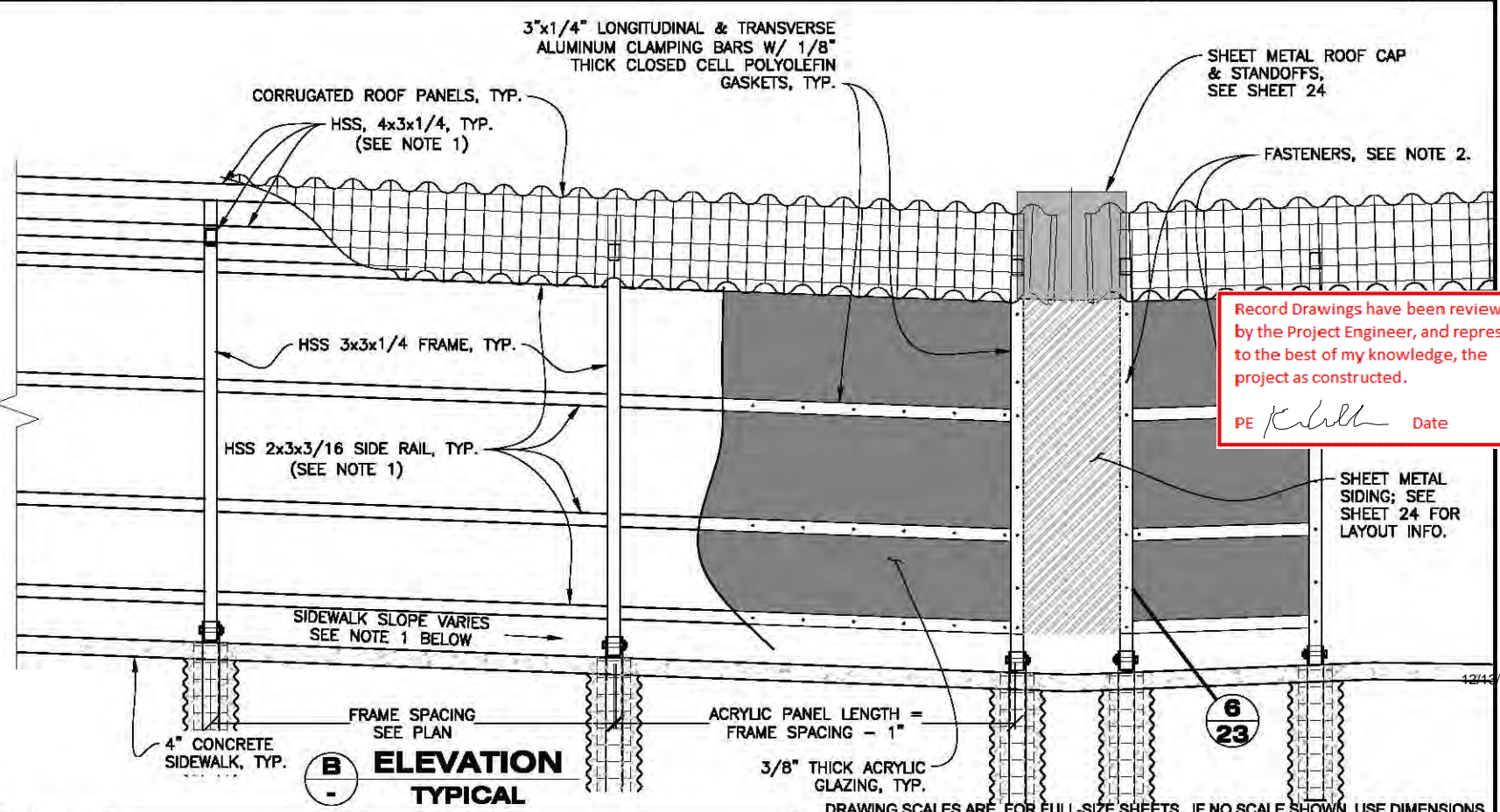
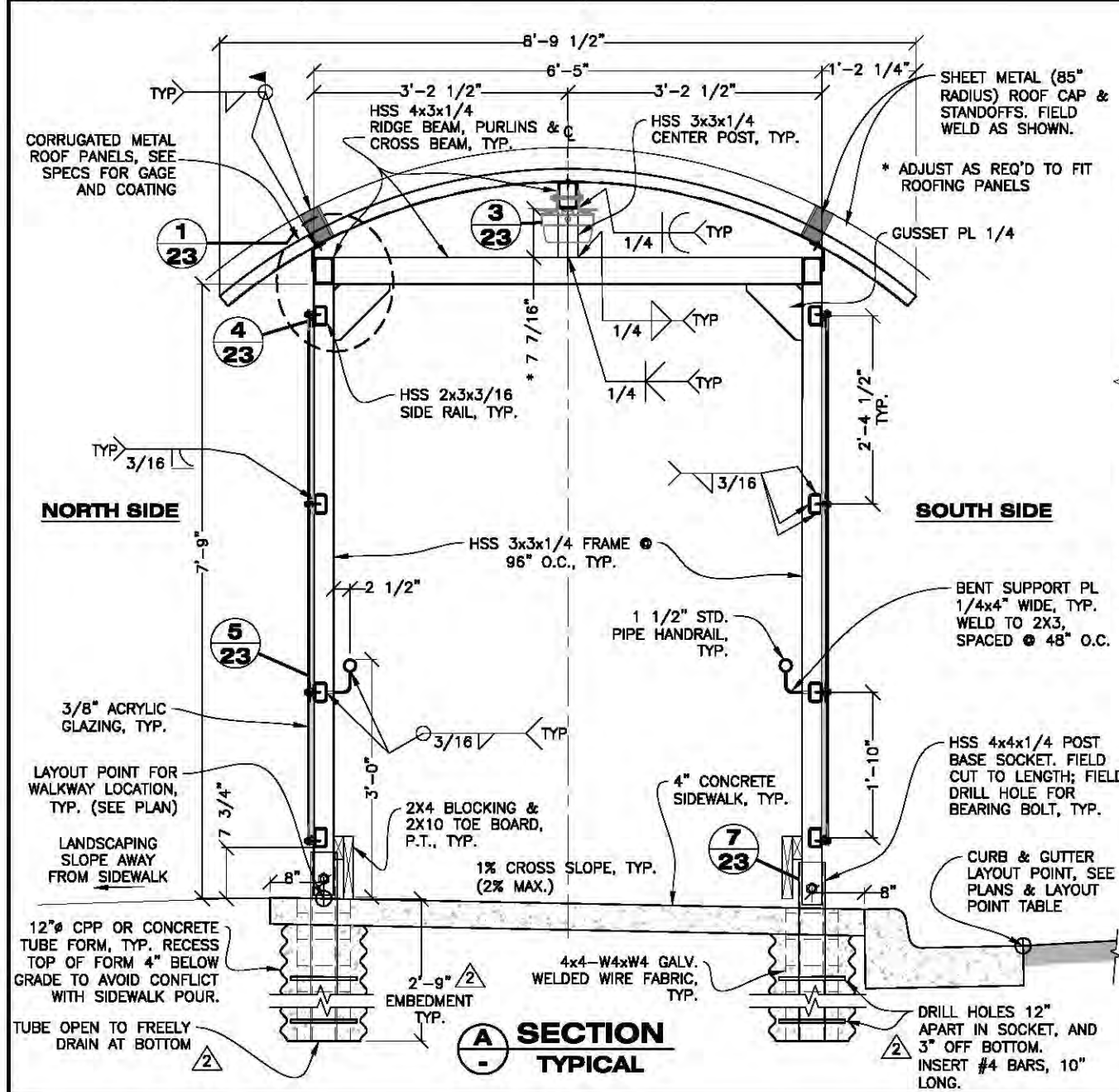
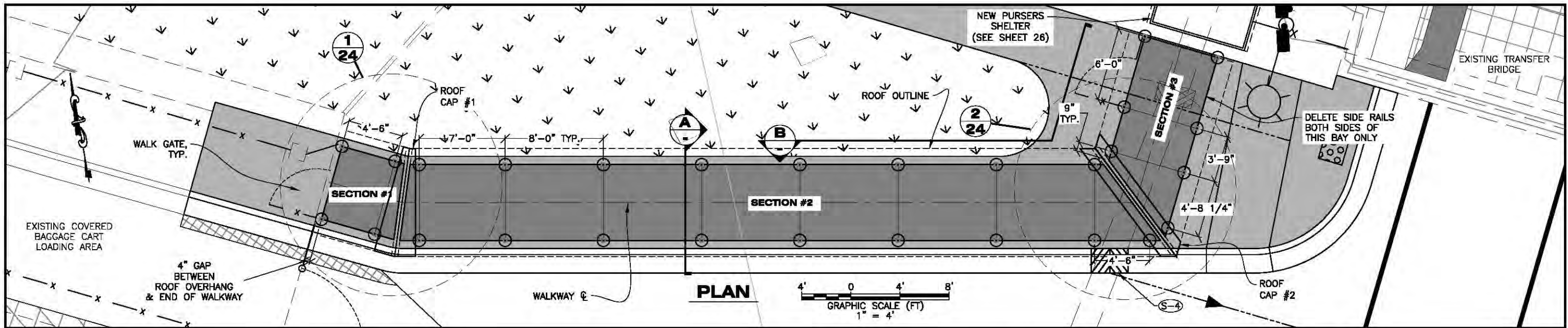
TAB: 21 Tuesday, January 21, 2014 11:29:50 AM OSBURN, JOEL D. (D01)

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

HAINES FERRY TERMINAL IMPROVEMENTS  
**PLANSET A**

**HEATING OIL TANK REPLACEMENT**

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68433 / 0955014	2014	21	57



- NOTES:**
- RIDGE BEAM, PURLINS & SIDE RAILS ARE FRAMED TO MATCH SIDEWALK GRADES. USE THE FOLLOWING GRADES FOR LAYING OUT EACH SECTION FOR WALKWAY #1 (LAID OUT WEST TO EAST):  
SECTION 1 = -2.25%  
SECTION 2 = -3.75%  
SECTION 3 = +3.20%
  - FASTEN THE CLAMPING BARS W/ #14x2" HEX HEAD SELF-THREADING SS SCREW W/EPDM GASKET, TYP @ 12" O.C. VERTICAL & HORIZONTAL AS SHOWN.
  - SEE PLAN & POINT LAYOUT TABLE FOR LOCATIONS OF CONCRETE POST BASES.
  - THE CONTRACTOR SHALL ISOLATE DISSIMILAR METALS BETWEEN SHEET METAL AND WALKWAY FRAME, IF ALUMINUM IS USED.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date

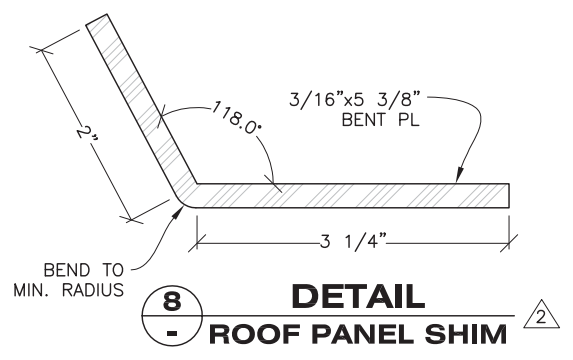
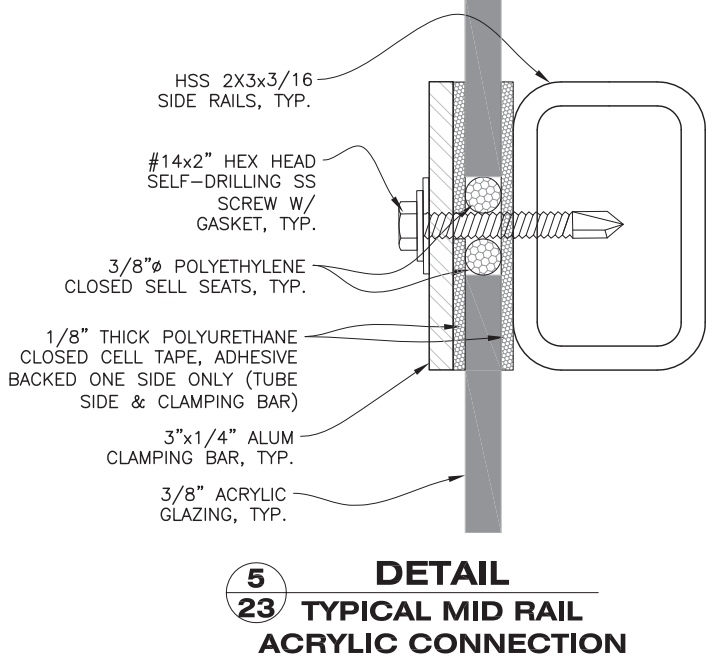
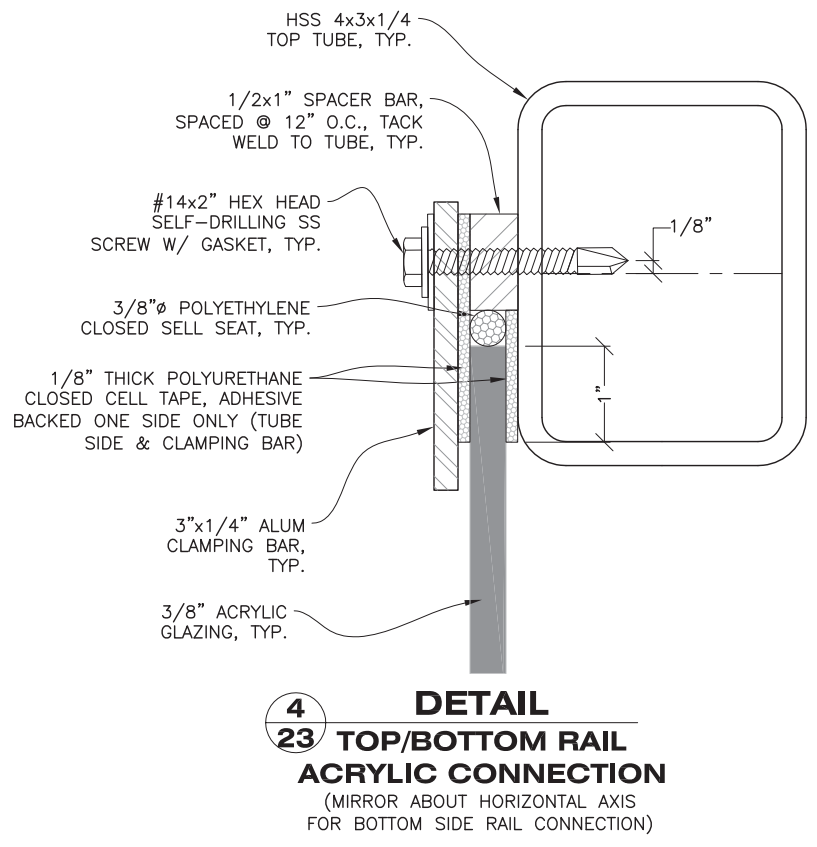
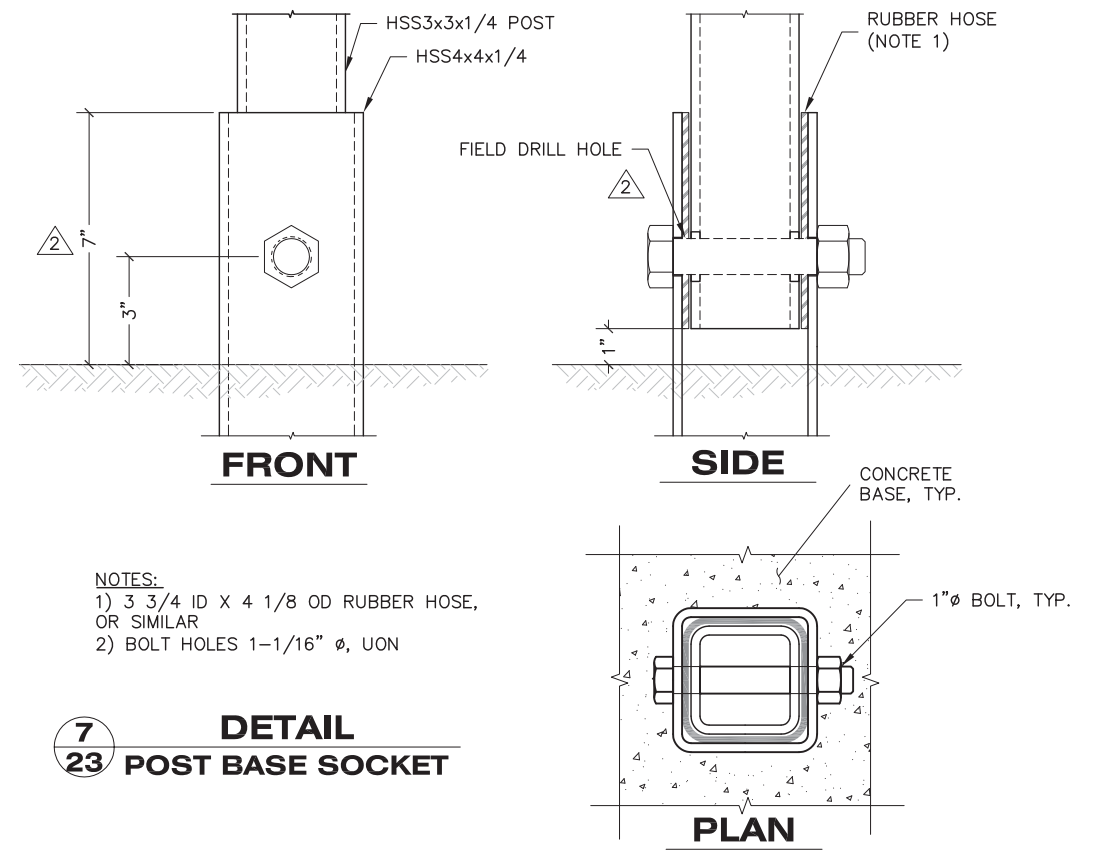
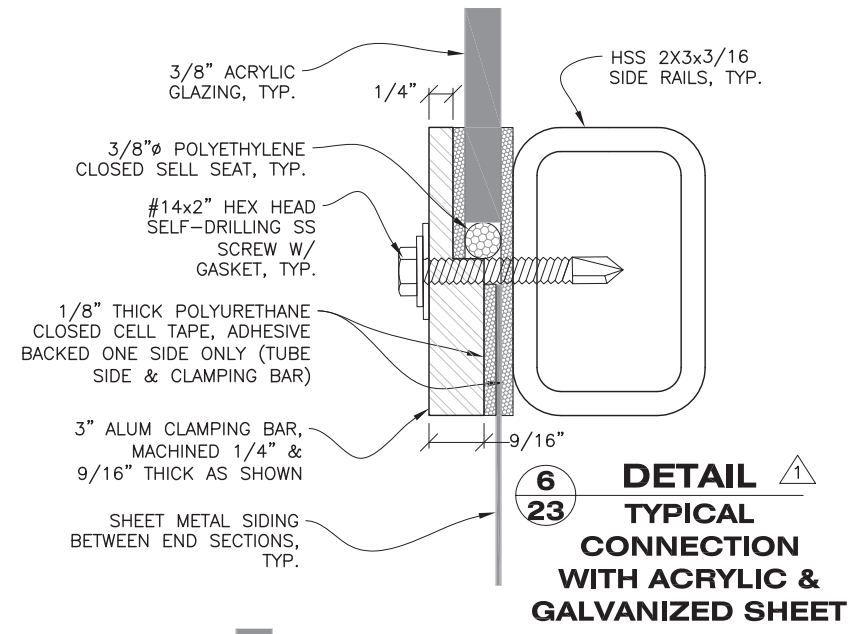
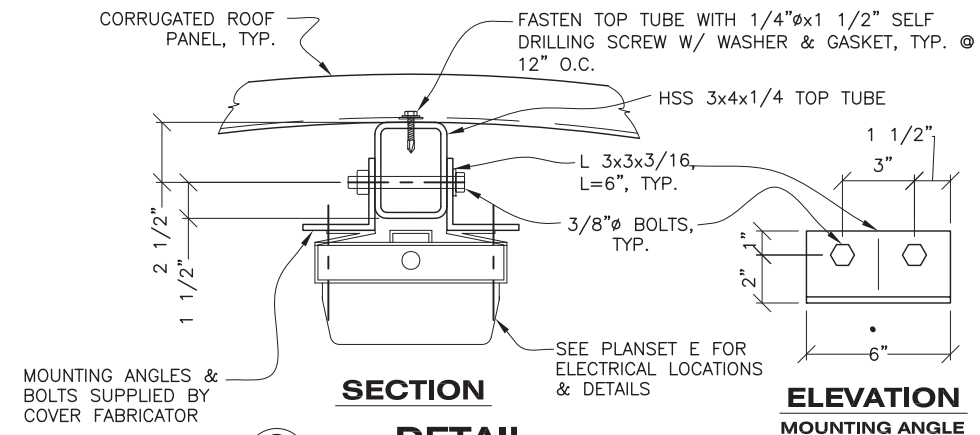
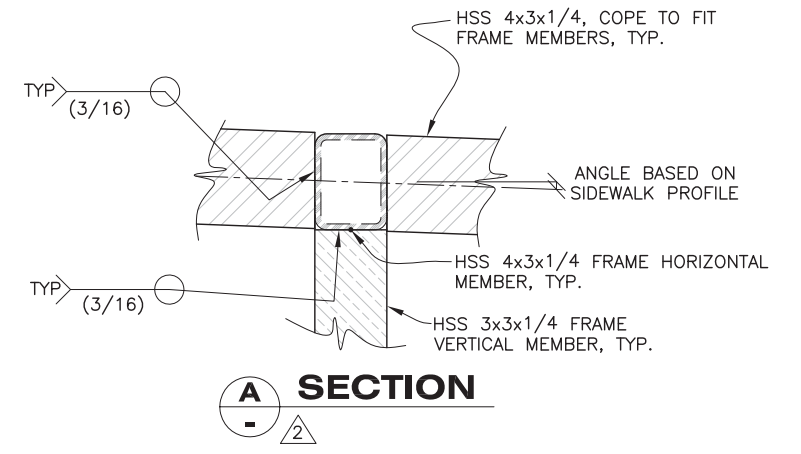
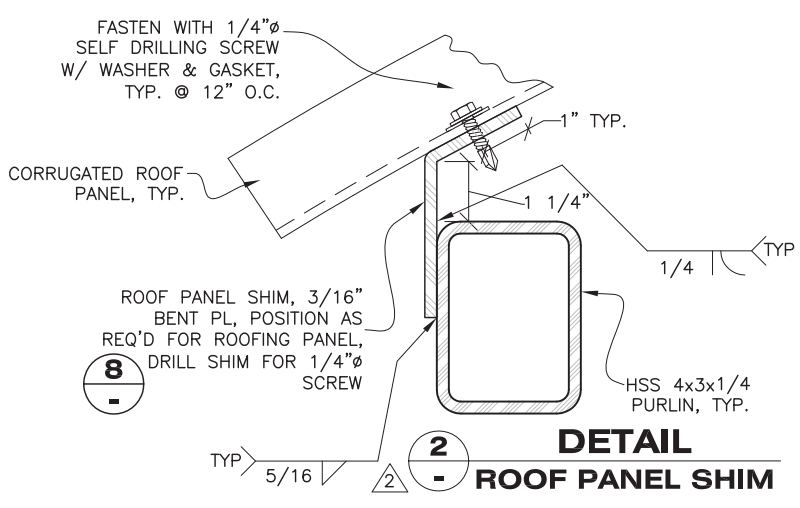
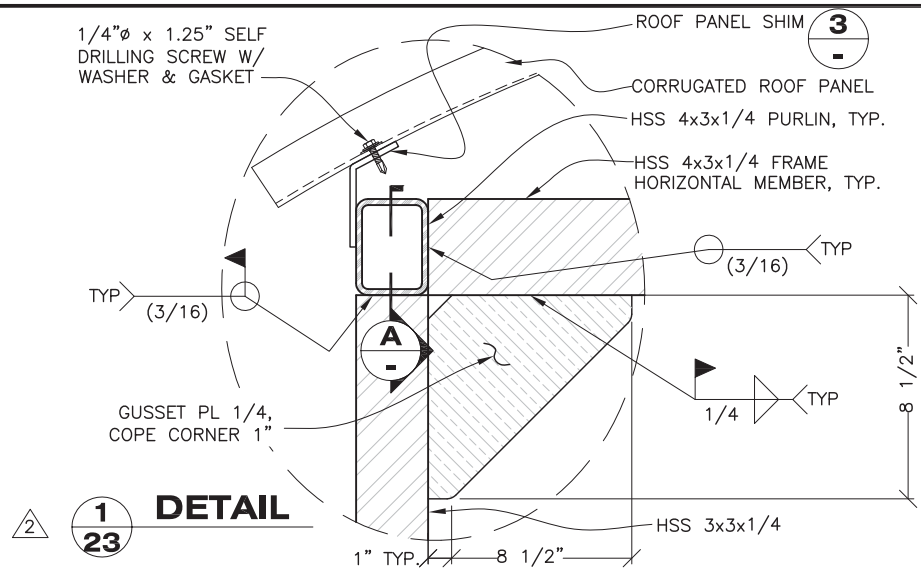
DESIGNED BY: J. OSBURN  
CHECKED BY: K. MILLER  
DRAWN BY: STAFF  
DATE: 4/6/15

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION  
**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A**

**COVERED WALKWAY #1 PLAN, SECTION & ELEVATION**

PROJECT DESIGNATION: 68433 / 0955014  
YEAR: 2014  
SHEET NO.: 22  
TOTAL SHEETS: 57

NO.	DATE	DESCRIPTION
2	1/23/15	MISC. DETAILS



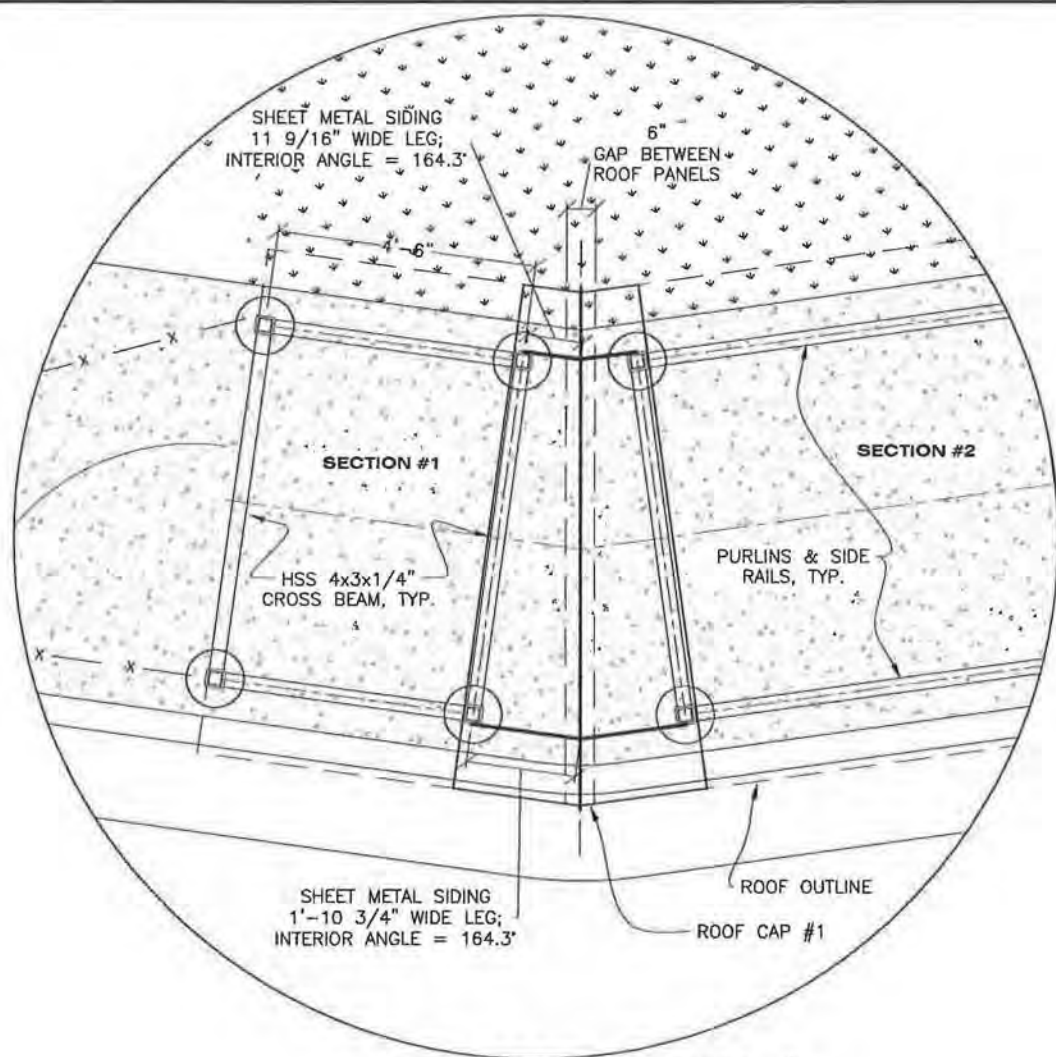
**NOTES:**  
1) 3 3/4 ID X 4 1/8 OD RUBBER HOSE, OR SIMILAR  
2) BOLT HOLES 1-1/16" Ø, UON

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

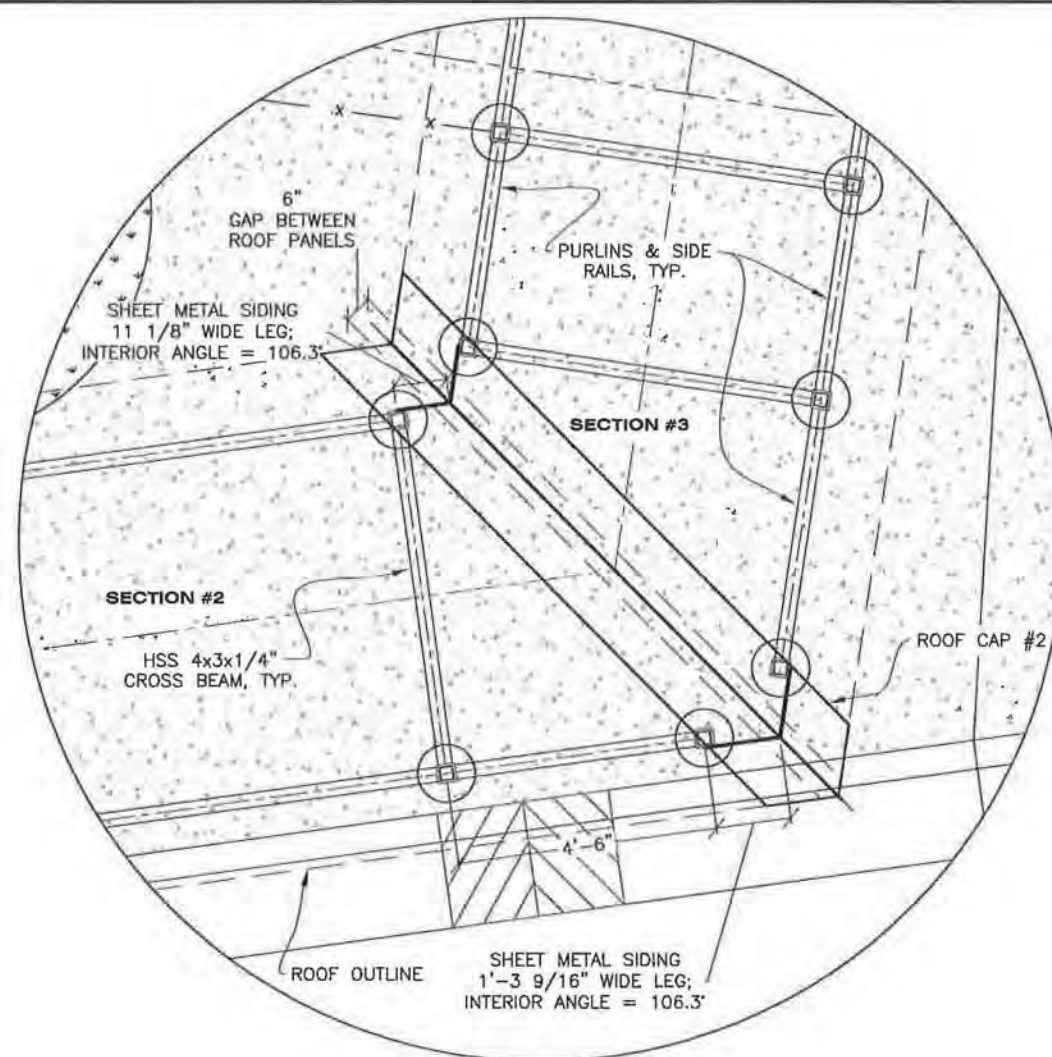
PE *K Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

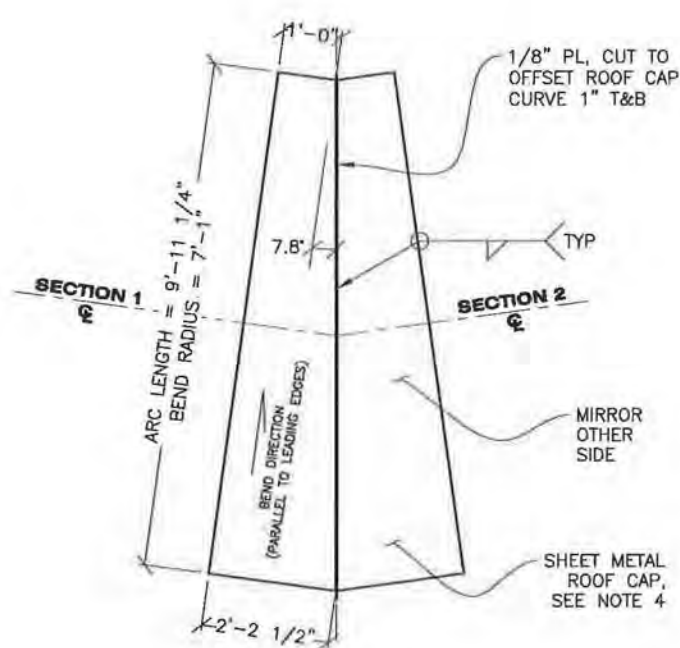
DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>			
CHECKED BY: K. MILLER		<b>COVERED WALKWAY #1 MISC. DETAILS</b>			
DRAWN BY: STAFF					
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REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION		SHEET NO.	
2	1/23/15	MISC. DETAILS		23	57



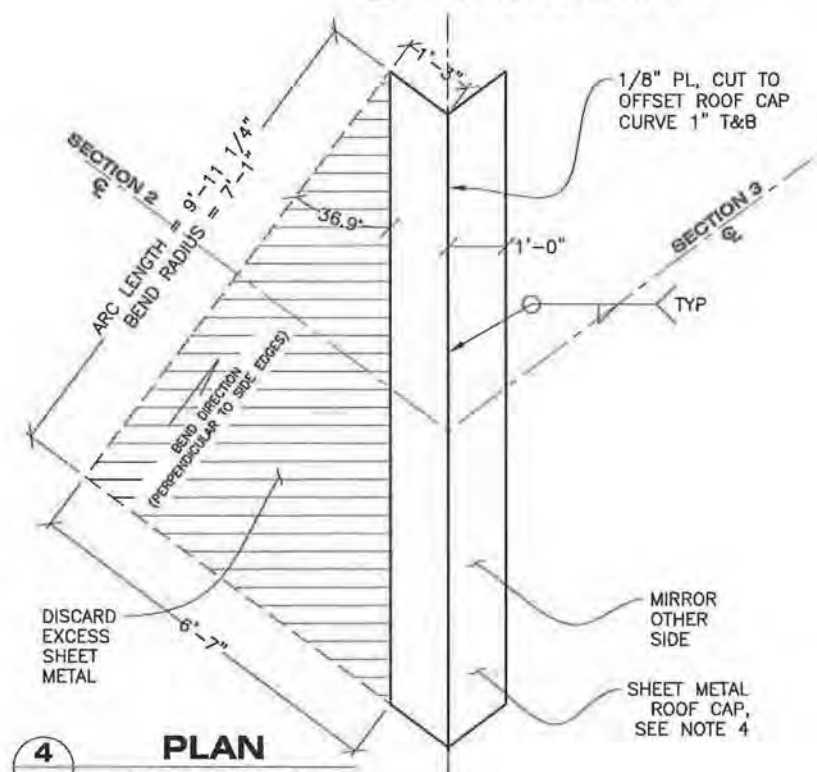
**1** FRAMING PLAN  
24 SECTIONS 1 & 2



**2** FRAMING PLAN  
24 SECTIONS 2 & 3



**3** PLAN  
- ROOF CAP #1



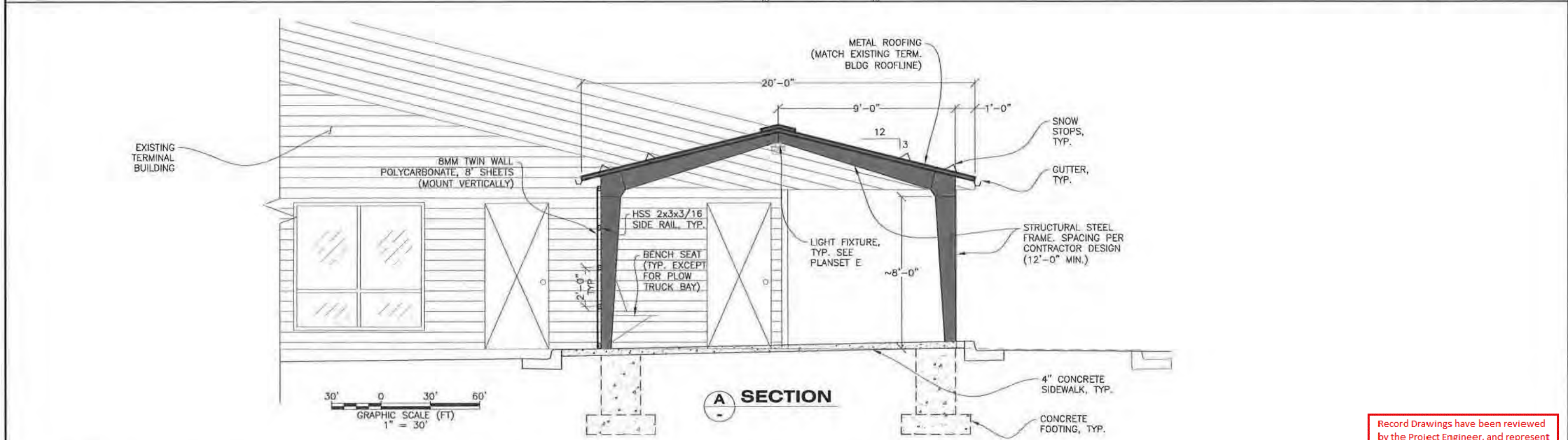
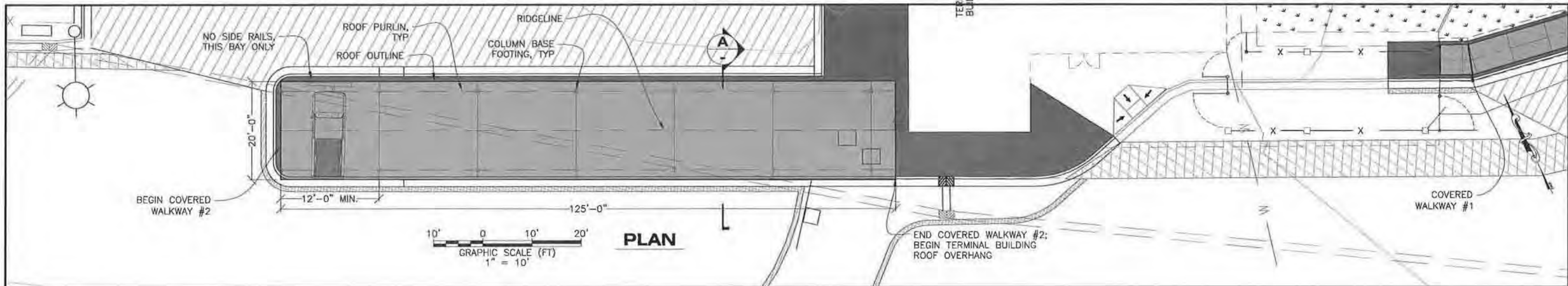
**4** PLAN  
- ROOF CAP #2

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

- NOTES:**
1. EXTEND ROOF PANELS AT WALKWAY ENDS AS SHOWN.
  2. FIELD LOCATE L3x3x1/4 STANDOFFS FOR ROOF CAPS ABOVE NEAREST HSS POST. CUT ANGLES TO FIT CORRUGATIONS IN WALKWAY ROOF. FIELD WELD AS SHOWN ON TYPICAL SECTION.
  3. CONTRACTOR SHALL SUPPLY SHEET METAL SIDING TO JOBSITE. APPROXIMATE BEND ANGLE IS SHOWN ON THE PLANS. BEND TO FIT FINAL LOCATION OF END POSTS.
  4. SHEET METAL ROOFING & SIDING SHALL BE CONTRACTORS OPTION OF 16 GA. GALVANIZED STEEL OR 14 GA. ALUMINUM. STANDOFFS ANGLES SHALL MATCH MATERIAL OF ROOFING.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION																					
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>																					
CHECKED BY: K. MILLER		<b>COVERED WALKWAY #1 END SECTIONS</b>																					
DRAWN BY: STAFF		<b>4/1/14</b>																					
PATH: 0:\HNS\68433\PLANSET\MF\PLANSET A\22-24 - COVERED WALKWAY #1_R1.DWG																							
TAB: 24		OSBURN, JOEL D (DOT)																					
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REVISIONS			PROJECT DESIGNATION	YEAR					SHEET NO.	TOTAL SHEETS													
NO.	DATE	DESCRIPTION																					
1	4/1/14	MODIFIED END SECTION FRAMES	68433 / 0955014	2014	24	57																	



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

**GENERAL NOTES:**

1. COVERED WALKWAY STRUCTURE IS SHOWN SCHEMATICALLY ON THE PLANS. FINAL DESIGN AND CONSTRUCTION DOCUMENTS OF THE FOUNDATION AND SUPERSTRUCTURE SHALL BE FURNISHED BY THE CONTRACTOR. **SEE FOLLOWING TWO SHEETS FOR COVERED WALKWAY DETAILS**
2. DESIGN SHALL BE PREPARED BY A QUALIFIED ENGINEER REGISTERED TO PRACTICE IN THE STATE OF ALASKA, BASED ON THE DIMENSIONS AND GENERAL CONFIGURATION SHOWN ON THE PLANS. ALTERNATE CONFIGURATIONS AND DETAILS MAY BE ACCEPTABLE; HOWEVER, IN NO CASE SHALL THE OVERALL DIMENSIONS OR FEATURES BE LESS THAN THOSE INDICATED.
3. CONTRACTOR SHALL SUBMIT FOR REVIEW:
  - A) CONCEPT DRAWINGS (35%),
  - B) PRELIMINARY PLANSET (80%), AND
  - C) FINAL PLANSET (100%).
 TECHNICAL SPECIFICATIONS SHALL BE PLACED ON THE DRAWINGS. THE FINAL PLANSET SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF ALASKA AFTER REVIEW AND APPROVAL BY THE DEPARTMENT.

4. DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND LOCAL BUILDING CODES, AS MAY BE APPLICABLE. REFER TO PLANSET C AND SECTION 695 OF THE SPECIAL PROVISIONS FOR MINIMUM DESIGN LOADS AND MATERIAL SPECIFICATIONS.
5. ALL FABRICATION, MATERIALS AND FINISHES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ALASKA, STANDARD SPECIFICATIONS.
6. ALL STEEL MEMBERS, FASTENERS, AND HARDWARE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
7. ROOFING MATERIALS SHALL BE HEAVY GAGE STEEL OR ALUMINUM SHEETING THAT IS COATED FOR CORROSION RESISTANCE SPECIFICALLY DESIGNED FOR LONG TERM EXPOSURE IN THE MARINE ENVIRONMENT. ALL ROOF FASTENERS SHALL BE STAINLESS STEEL, UNLESS OTHERWISE PERMITTED. ROOFING SHALL ALSO BE EQUIPPED WITH SNOW DAMS TO PREVENT SNOW FROM SLIDING.
8. UPLAND FEATURES (CURB & GUTTER, SIDEWALKS, ASPHALT PAVING, ETC.) ARE DESIGNED UNDER THIS PLANSET.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>	
		<b>COVERED WALKWAY #2</b>	
CHECKED BY: K. MILLER		YEAR	TOTAL SHEETS
DRAWN BY: STAFF		2014	57
PATH: Q:\HNS\66433\PLANSET\WP\PLANSET A\25 - COVERED WALKWAY #2.DWG		SHEET NO.	25
TAB: 25 Tuesday, January 21, 2014 11:37:07 AM		PROJECT DESIGNATION	68433 / 0955014
REVISIONS		NO.	DATE
DESCRIPTION		DATE	DESCRIPTION

**GENERAL**

**Structural Design:**

Structural Design Code: IRC 2012, ACI 318-11

Design Loads from Metal Building Manufacturer "American Building" March 31, 2015.

The Plans and Specifications are a guide and do not depict or call out every component necessary for completion of the project. All materials used shall be installed according to manufacturer's specifications. Designer will forward plans to Contractor for review prior to construction. The Designer's obligation and/or liability for errors or omissions in these drawings shall be limited to redrawing or redesigning to correct the situation.

**Contractor's Responsibility:**

Design and provide adequate shoring, bracing, formwork, etc., as required for the protection of life and property during construction. Verify all existing conditions and dimensions and structural member sizes prior to construction and notify designer of any discrepancies between existing conditions and these drawings. Obtain approval from designer and owner for proposed field changes prior to effecting modifications.

**SITE WORK**

**General:**

Unless a soils investigation report by a licensed soils engineer is provided, the foundation design is based upon an assumed average soil bearing capacity of 3,000 psf. All subsurface material below footing and slab shall be compacted fill free of organics. Place 6" min of compacted D-1 below all footings and slabs. Wait until concrete has obtained sufficient strength prior to backfilling. Avoid uneven backfill. All back fill material shall comply with State Standards regarding material and compaction.

**CONCRETE**

"Class A" Concrete per Alaska State Highway Specifications, or as follows:

Class and use	f <sub>c</sub>	slump	sacks / c.y.
a. Footings	3000	NA	5-1/2
b. Slabs on grade	3000	NA	5-1/2

1. Air entraining agent (3% to 6%) to be used in all concrete flat work exposed to weather.
2. Possolith 300 series (4 oz. per 100 # of cement) to be used in all concrete.
3. Mix may be designed in accordance with the provisions of the ACI.
4. Water to cement ratio per IBC.

**Reinforcing Steel**

#4 Bars and smaller use ASTM A615 Grade 40.

#5 and larger use ASTM A615 Grade 60.

Reinforcing steel details shall be prepared by an experienced approved detailer and conform to standard practice outlined in ACI report 315.

Lap splice all bars no less than 40 bar diameters, unless otherwise noted. Stagger lap splices

**Concrete Cover of Reinforcing Steel**

3" Concrete cast against and permanently exposed to earth.

1-1/2" Concrete exposed to earth or weather.

1-1/2" Beams and columns not exposed to earth or weather.

3/4" Slabs and walls not exposed to earth or weather.

**Anchor Bolts and Embedments:**

Anchor Bolts ASTM F1554 Gr. 36, or equal. Embed bolt head with round plate washer with minimum embedment as noted on plans

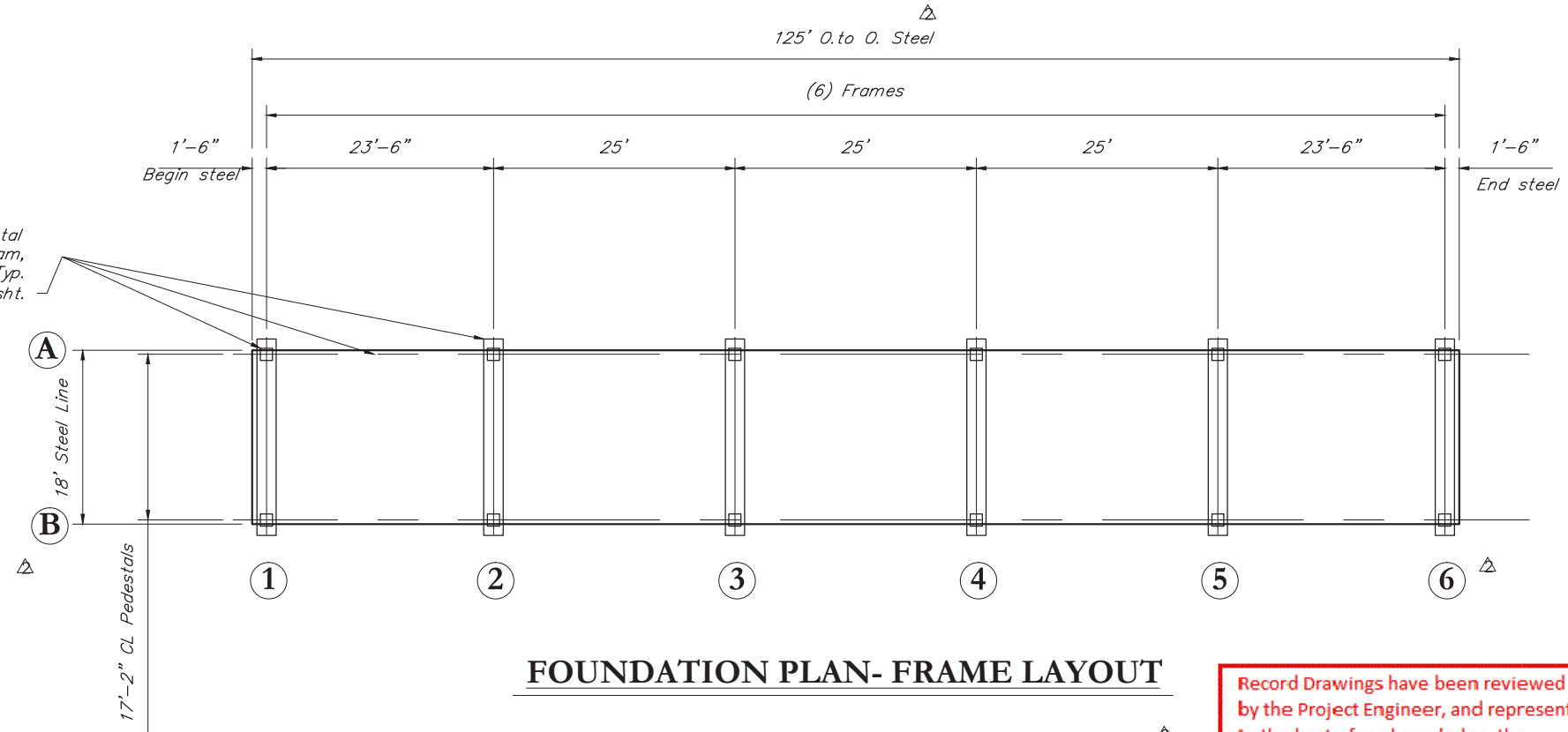
**Grout:**

Non-shrink, non-corrosive, non-metallic, cement based grout meeting ASTM C-1107. Develop a 28-day compressive strength of 10,000 psi.

**Building Reactions at Anchor Bolts (Unfactored)**

	Vertical Loading		Lateral Loading	
	Downward	Uplift	Short Dir (H1 Long Dir (H2)	
Dead	1	0	0.2	0
Coll	0.8	0	0.2	0
Roof Live	5	0	1.3	0
Snow	20.1	0	4.5	0
Wind	2.8	-12.7	4.8	7
EQ	3.9	-3.8	4.3	19.7

Footing and Pedestal Foundation, and Grade Beam, Typ. See "Foundation Details" sht.



**FOUNDATION PLAN- FRAME LAYOUT**

Frame Spacing and layout based on Approved Metal Building Plans- "American Building" March 31, 2015. Frame location on site designed by others. See AKDOT&PF Project No. 68433/ "Walkway Supplement 1-15-2015". Coordinate Frame locations to Match or as otherwise approved by ADOT&PF.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 12/13/16



06/11/2015

Chilkat Engineering, LLC  
 Civil/Structural Engineers  
 PO Box 211044 (907) 321-0219 phone  
 Anake Bay, AK 99821 loren.chilkat@gccr.net

HAINES WALKWAY FOUNDATION  
 GENERAL NOTES

N	r	
1	Repl.	6/6/15 sheet 6/11/15
2	Revised	7/2/15

SHEET TITLE:  
 GENERAL NOTES

DATE: 6/11/2015  
 SCALE:  
 DRAWN: LG  
 CHECKED: LG

SHEET NO. 1 OF 2

7/2/15

*[Signature]*





06/11/2015  
 Chilkat Engineering, LLC  
 Civil/Structural Engineers  
 PO Box 211044 (907) 321-0219 phone  
 Anake Bay, AK 99821 loren.chilkat@gccnet

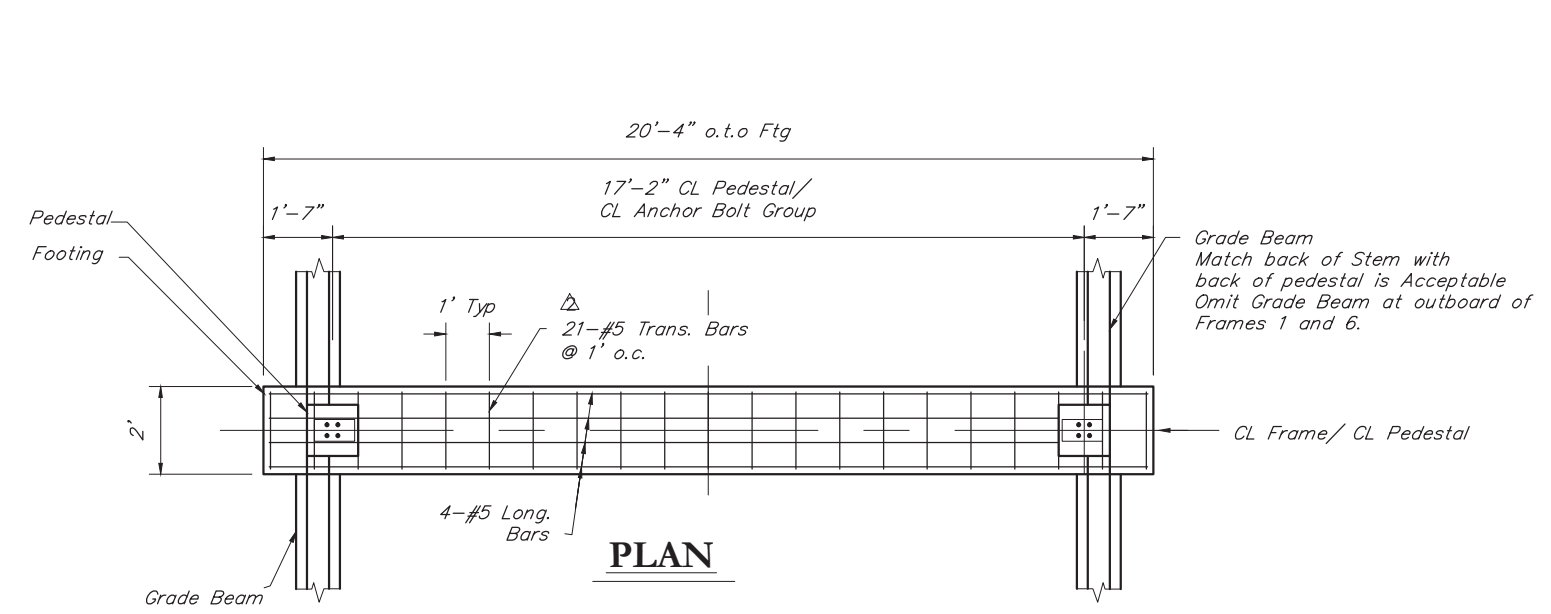
HAINES WALKWAY FOUNDATION  
 FOUNDATION DETAILS

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1	Repl.	6/6/15 sheet 6/11/15
2	Revised	7/2/15

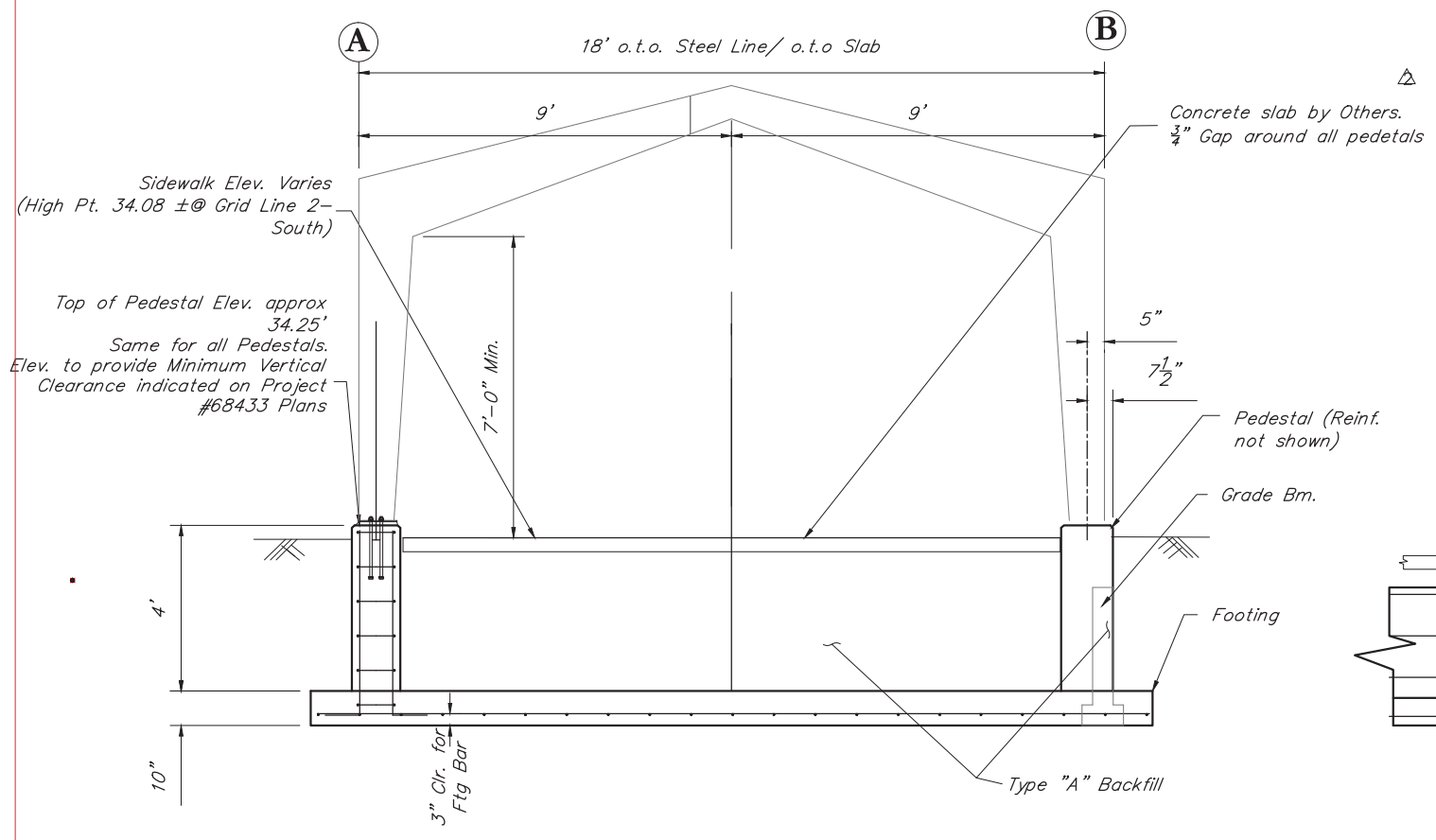
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 CHECKED: LG

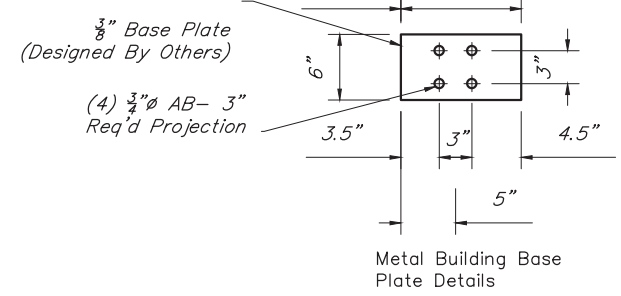
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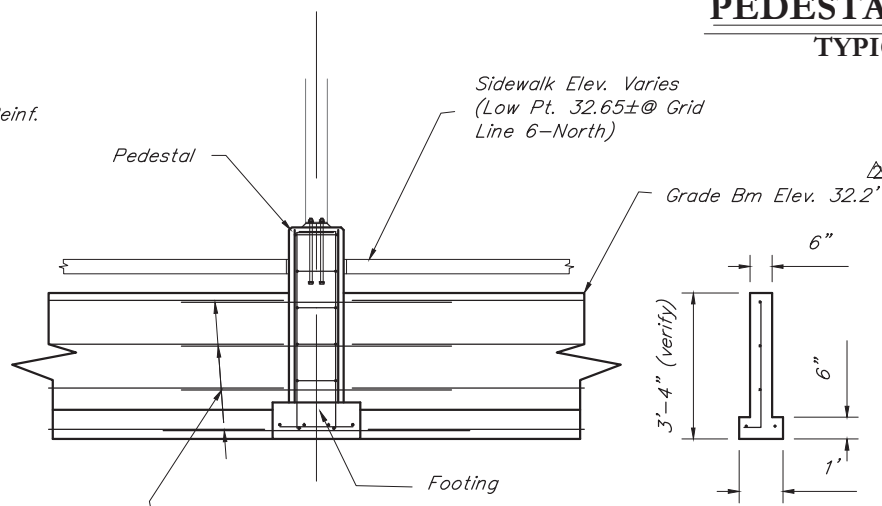
**PLAN**



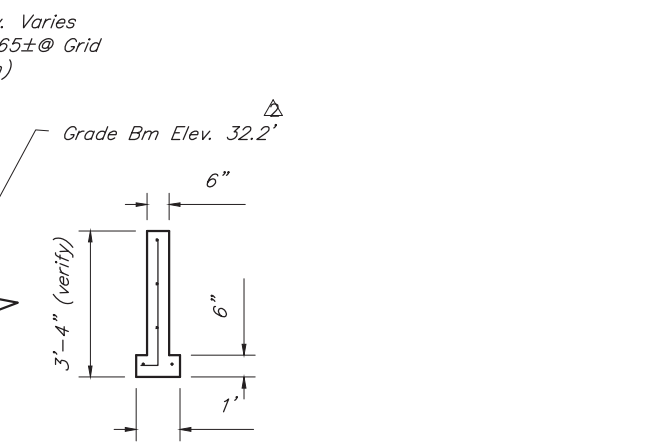
**ELEVATION**



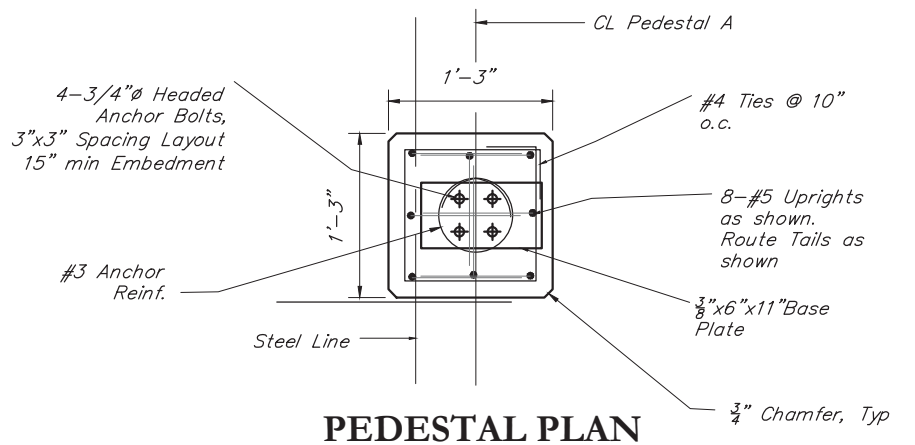
#5 Continuity Bars  
 w/ 30" projection out  
 of pedestal and  
 footing. Lap w/  
 Grade beam bars



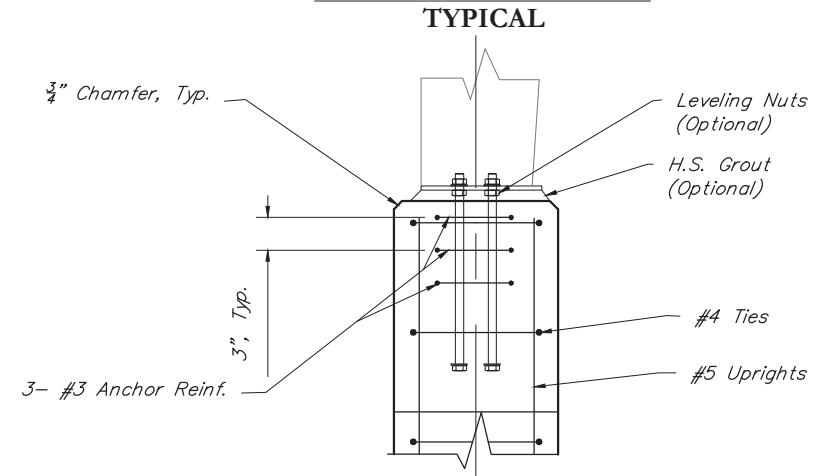
**END VIEW**



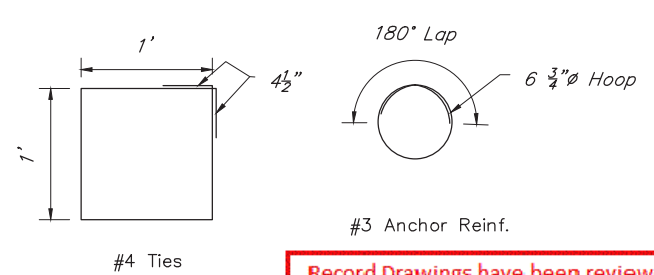
**GRADE BM.  
 SECTION**



**PEDESTAL PLAN  
 TYPICAL**



**PEDESTAL ELEV.  
 TYPICAL**

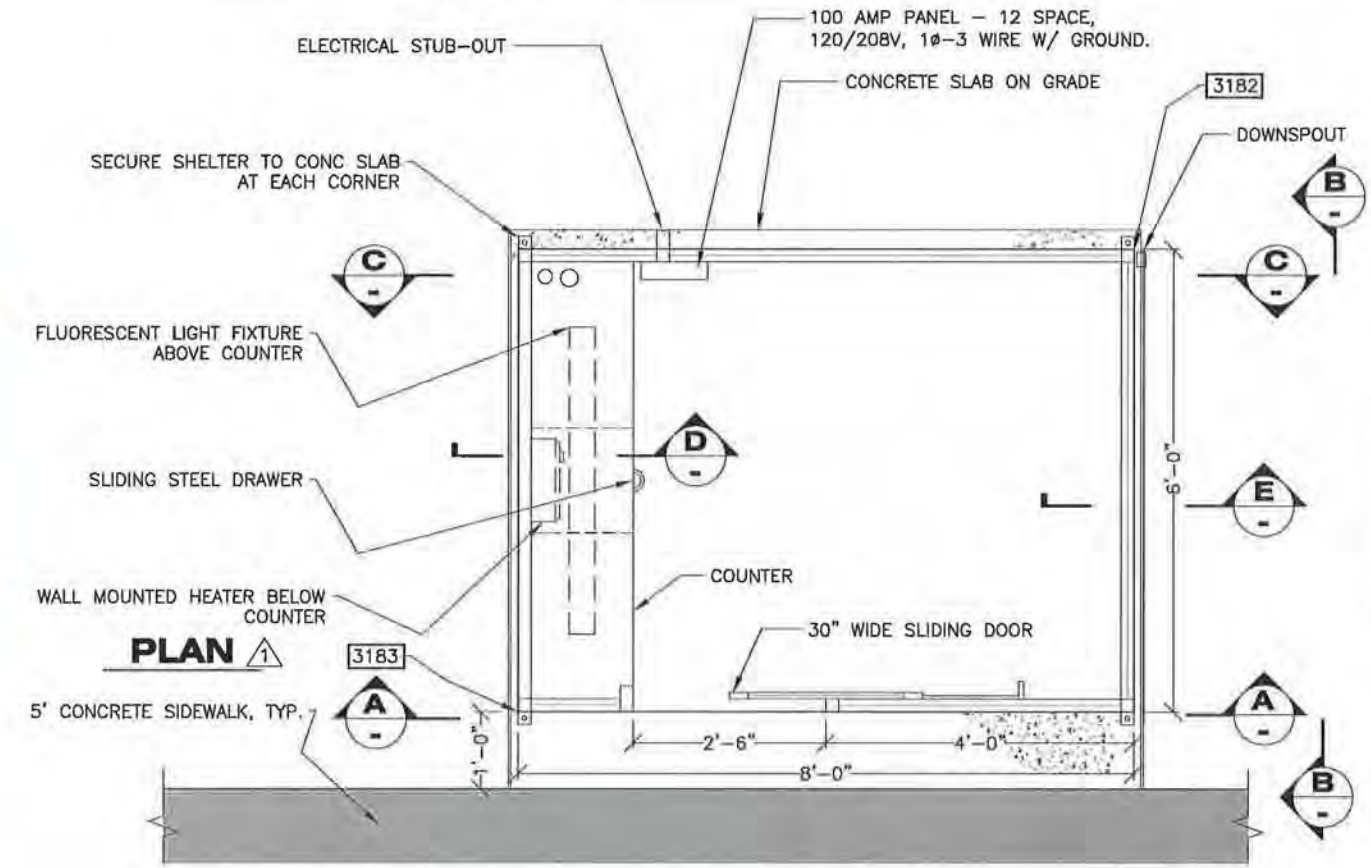


Record Drawings have been reviewed  
 by the Project Engineer, and represent  
 to the best of my knowledge, the  
 project as constructed.  
 PE *K. K. K.* Date 12/13/16

EXISTING WOOD-FRAME PURSER'S SHELTER TO BE REMOVED.

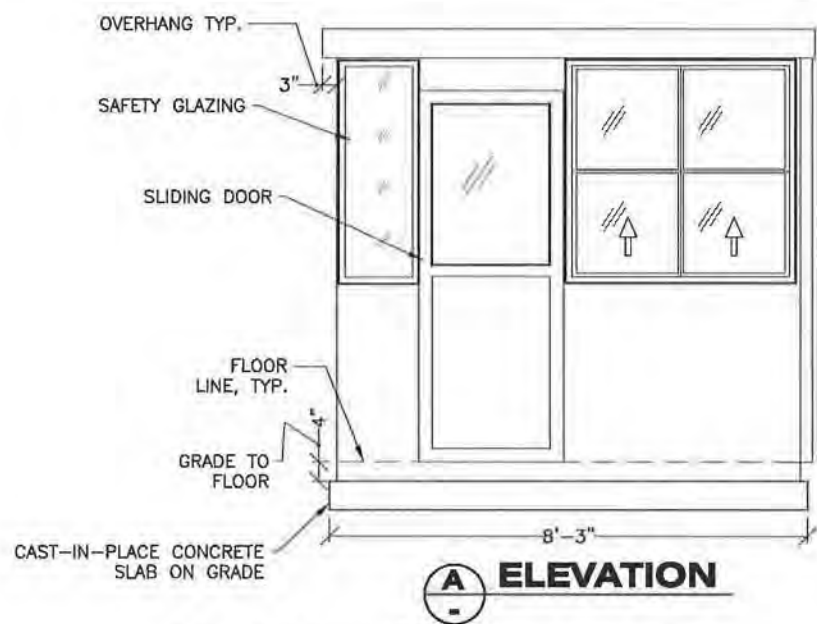


**1**  
- **PHOTO**  
- **EXISTING PURSER'S SHELTER**

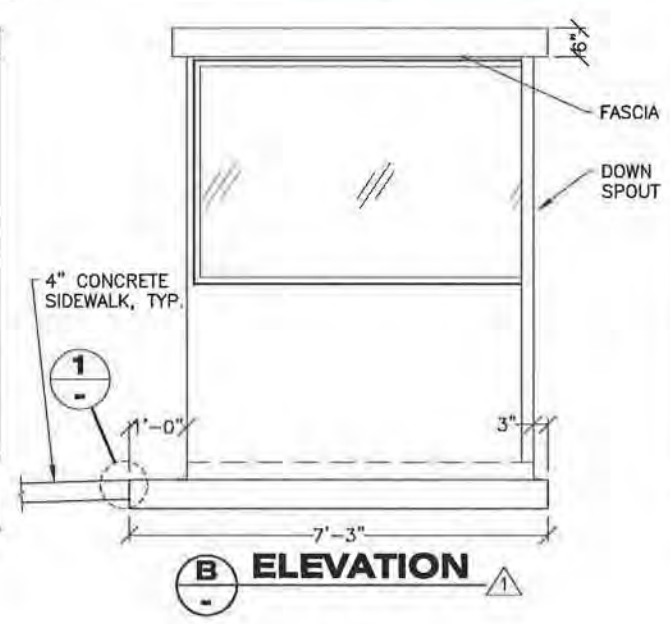


**GENERAL NOTES:** ⚠

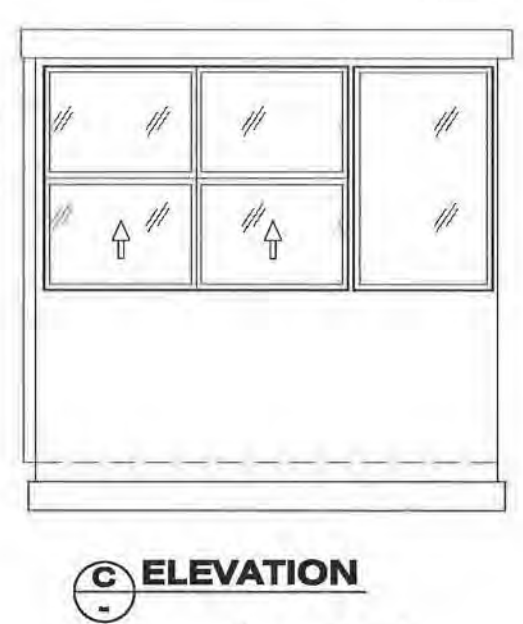
- LAYOUT POINTS SHOWN FOR NEW PURSERS SHELTER ARE REFERENCED TO OUTSIDE CORNERS AS SHOWN. SEE THE LAYOUT POINT TABLE ON SHEET 19 FOR COORDINATE INFORMATION.
- FOR PLAN LOCATIONS OF EXISTING PURSERS SHELTER, REFER TO UPLANDS DEMOLITION SHEETS.



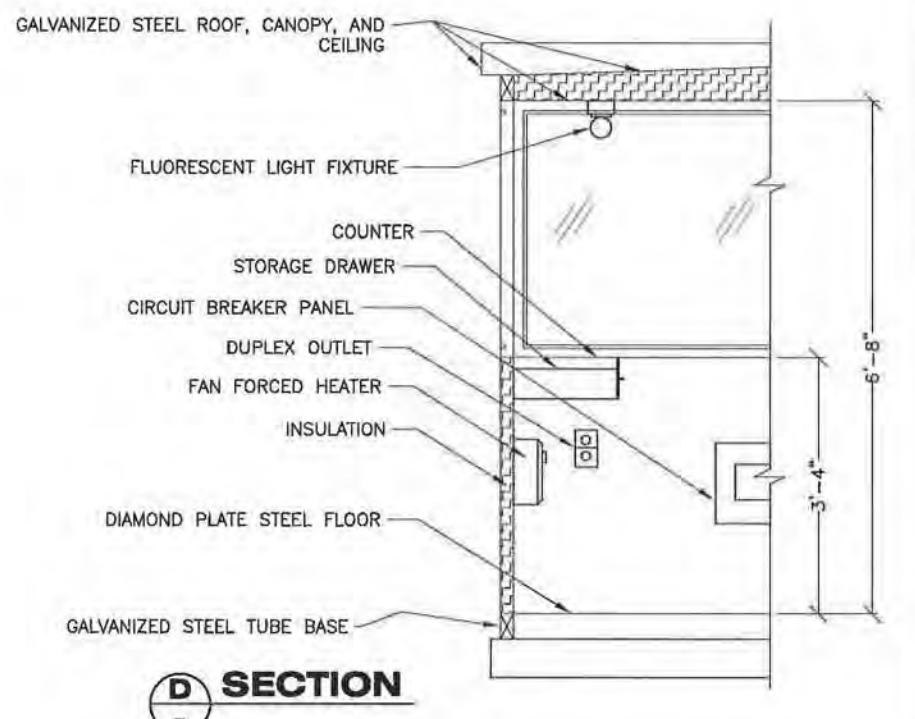
**A**  
- **ELEVATION**



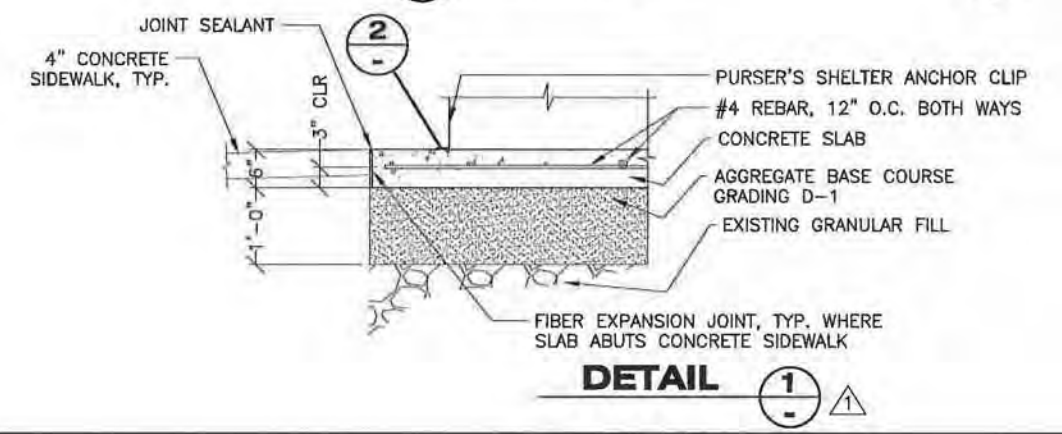
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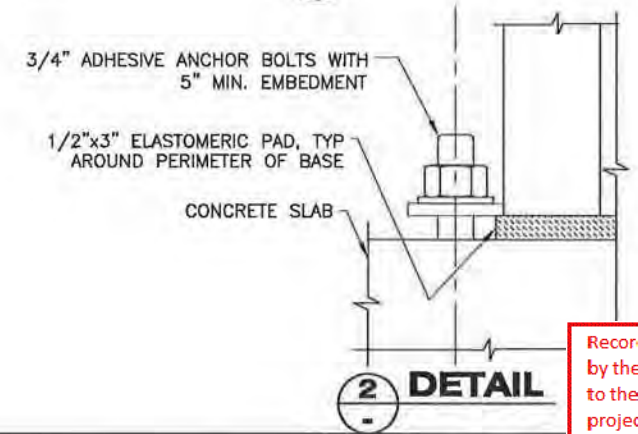
**C**  
- **ELEVATION**



**D**  
- **SECTION**



**1**  
- **DETAIL**

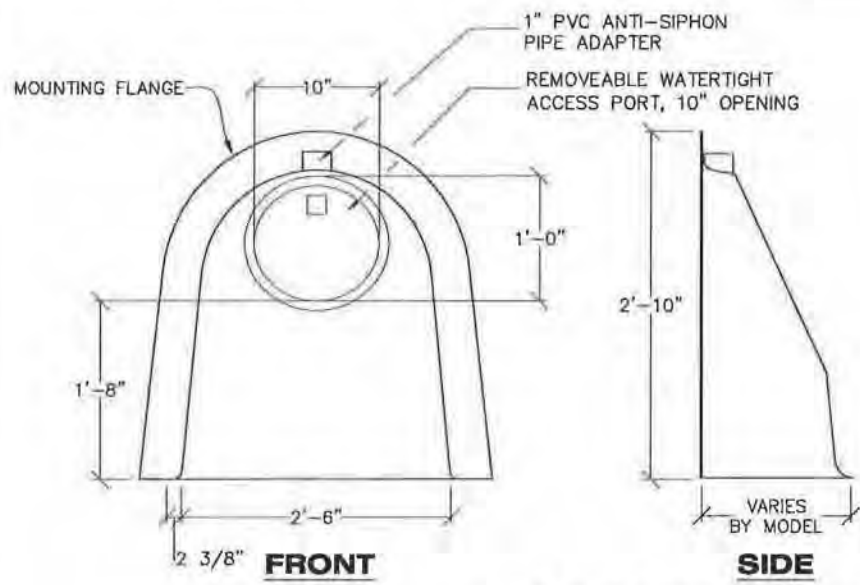


**2**  
- **DETAIL**

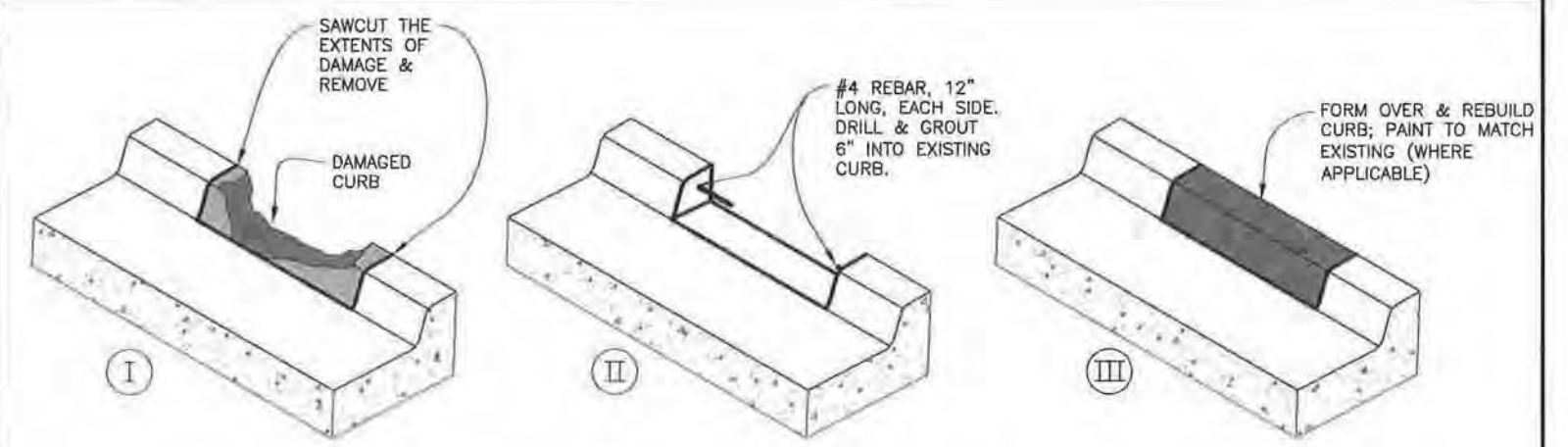
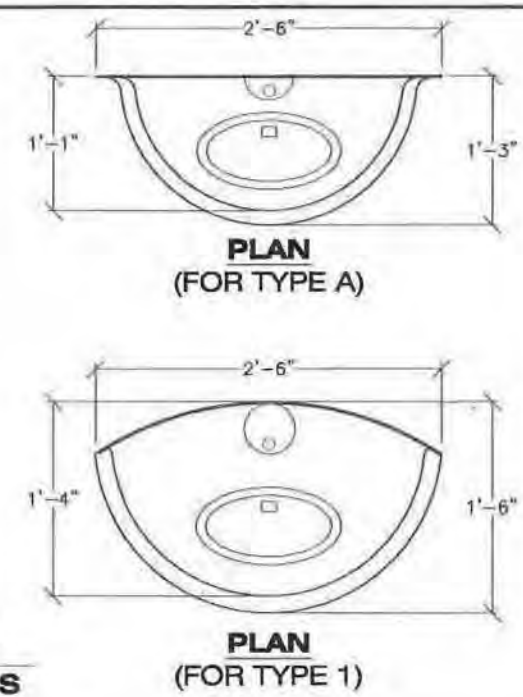
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>	
CHECKED BY: K. MILLER		<b>PURSERS SHELTER</b>	
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NO.	DATE	DESCRIPTION	SHEET NO.
1	3/26/14	MISC. DETAILS	26
		88433 / 0955014	2014
			57

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16



**1**  
 - **TYPICAL DETAILS OIL-WATER SEPARATORS**



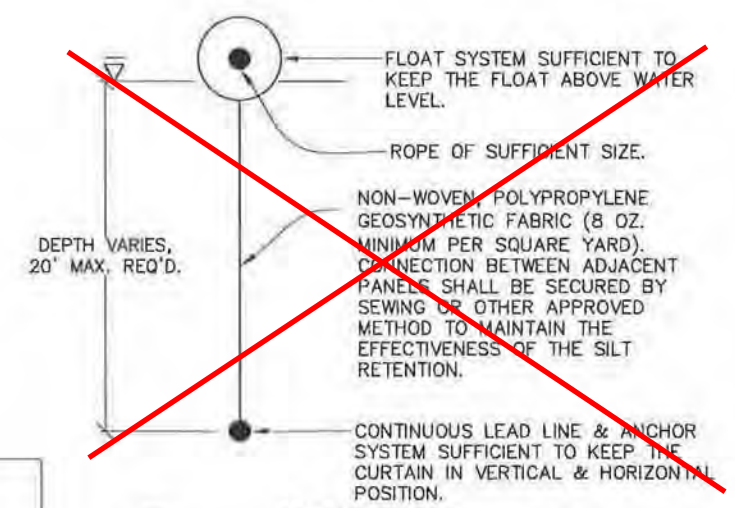
**2**  
 - **DETAIL TYPICAL CURB REPAIR**

**CURB REPAIR LOCATIONS**

STA.	OFF.	LENGTH	REMARKS
13+10	20 LT	8	
12+40	10 LT	8	
13+70	20 LT	4	

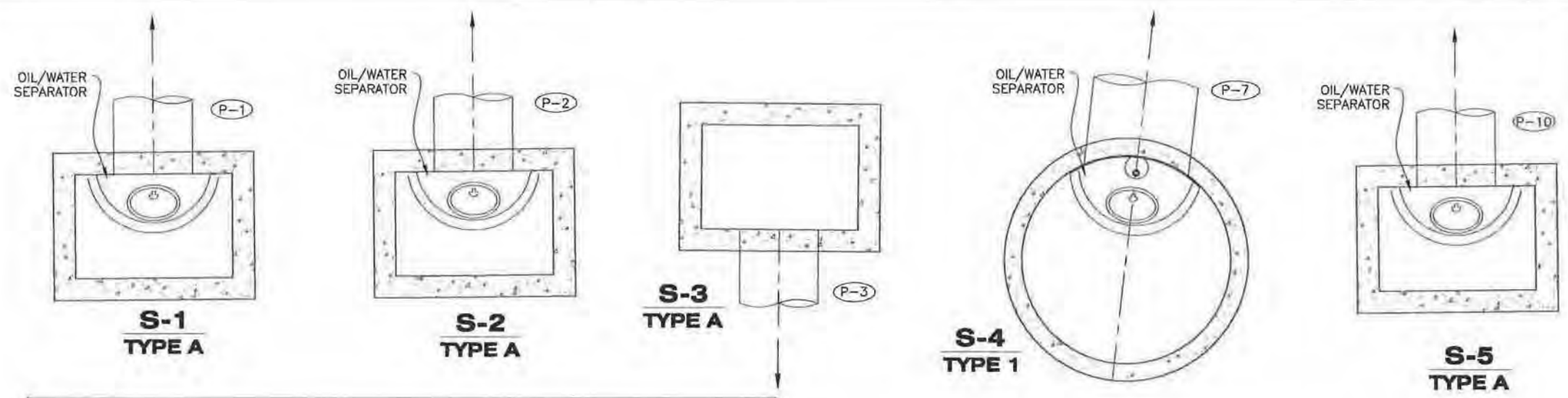
**SILT CONTAINMENT BOOM NOTES:**

- BEFORE GROUND DISTURBING ACTIVITIES, INCLUDING EXCAVATION OR EMBANKMENT WORK, THE CONTRACTOR SHALL INSTALL A SILT CONTAINMENT BOOM TO ISOLATE THE WORKSITE AS DEPICTED ON THE ESCP SHEET.
- THE HORIZONTAL ALIGNMENT OF THE SILT BOOM SHOWN ON THE ESCP SHEET IS APPROXIMATE ONLY. THE CONTRACTOR MAY UTILIZE ANY REASONABLE ALIGNMENT SUCH THAT THE SITE REMAINS ENCLOSED IN ACCORDANCE WITH THE ENVIRONMENTAL COMMITMENTS (REFERENCE SPECIFICATIONS) AND OTHERWISE CONTAINED WITHIN THE PROJECT PROPERTY LIMITS. THE SILT BOOM MAY NOT INTERFERE WITH ACCESS AND USE OF THE BERTHING FACILITIES. ALTERNATIVE SILT BOOM ALIGNMENTS AND LENGTH OF SILT BOOM FROM THAT SHOWN ON THE PLANS MAY THEREFORE BE REQUIRED DEPENDING ON THE CONTRACTORS WORK PLANS.
- THE BOOM SHALL BE MAINTAINED AT ALL TIMES WHILE DEPLOYED BY THE CONTRACTOR AND UPON REMOVAL SHALL BE THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT AN ANCHORING PLAN FOR DEPARTMENT REVIEW. THE BOOM SHALL BE SUFFICIENTLY SECURED TO WITHSTAND WIND, SEAS, PROPELLER WASH, AND TIDAL FORCES REASONABLY EXPECTED AT THE SITE.
- THE BOOM SHALL REMAIN IN PLACE UNTIL ALL EARTH DISTURBING ACTIVITIES ARE COMPLETE AND WATER QUALITY IS DEEMED ACCEPTABLE BY THE ENGINEER.



**3**  
 - **SECTION TYPICAL SILT CONTAINMENT BOOM**

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16



**NOTE:**

- OIL-WATER SEPARATORS SHOWN ARE "SNOUT" MODELS 24F & 24R BY BMP INC. SEE SECTION 604 OF THE SPECIFICATIONS FOR MORE INFORMATION ON OIL-WATER SEPARATORS.

**DRAINAGE STRUCTURE DETAILS**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN

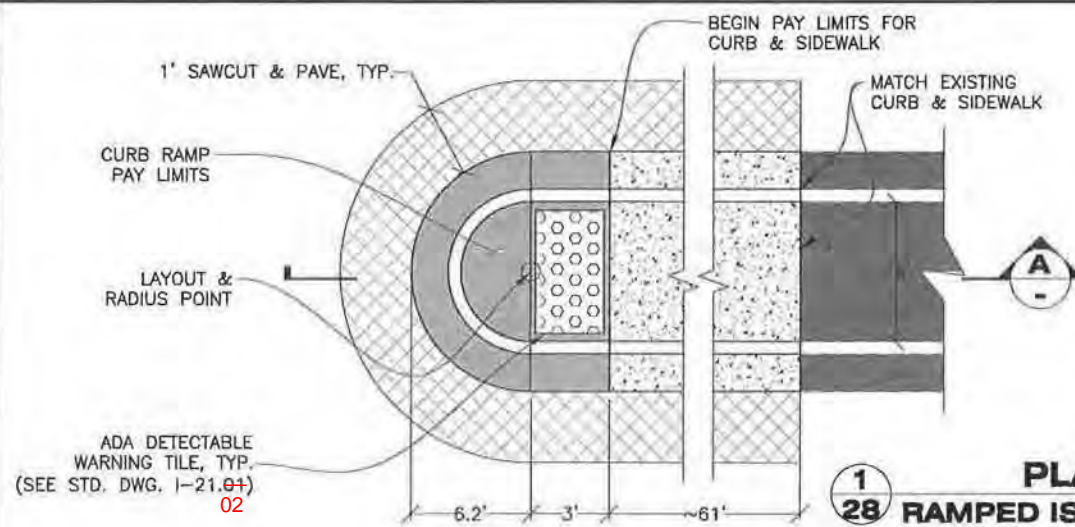
CHECKED BY: K. MILLER  
 DRAWN BY: STAFF

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
 HAINES FERRY TERMINAL IMPROVEMENTS  
 PLANSET A

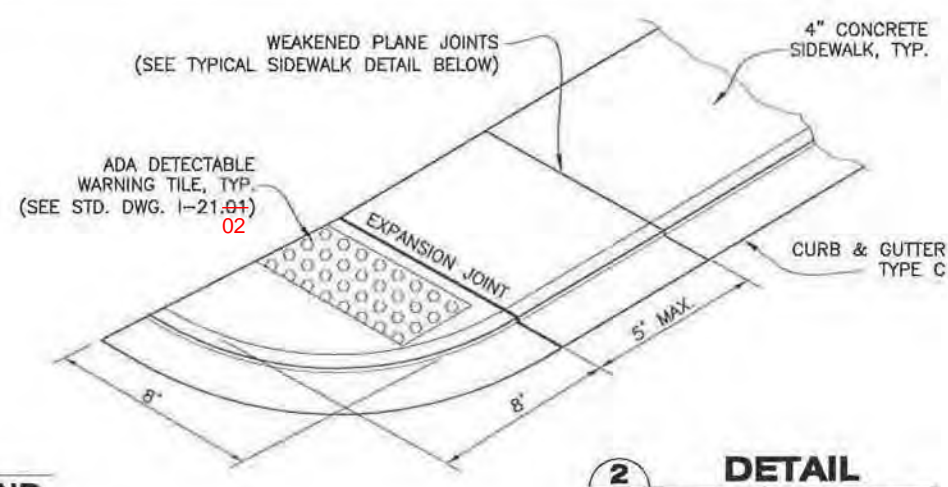
**MISCELLANEOUS DETAILS**

1-24-14

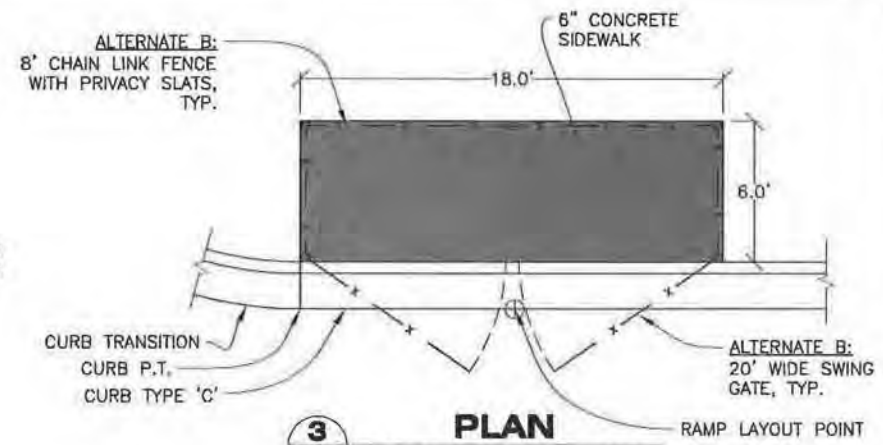
PROJECT DESIGNATION: 68433 / 0955014  
 YEAR: 2014  
 SHEET NO.: 27  
 TOTAL SHEETS: 57



**1**  
**28** **PLAN**  
**RAMPED ISLAND END**  
**CURB RAMP #1**

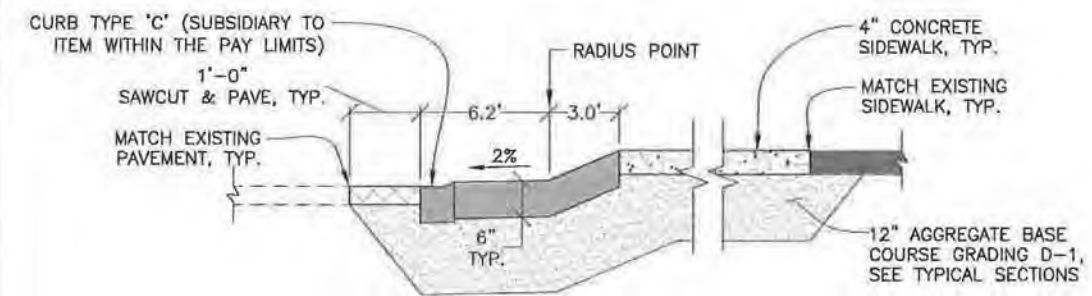


**2**  
**28** **DETAIL**  
**TRAVERSABLE**  
**CURB RAMP #5**

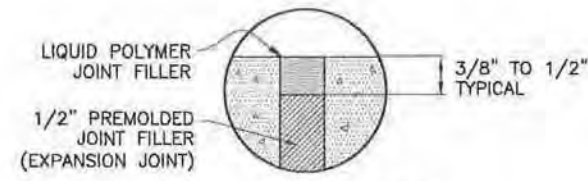


**3**  
**28** **PLAN**  
**TRASH BIN APRON**  
**CURB RAMP #3**

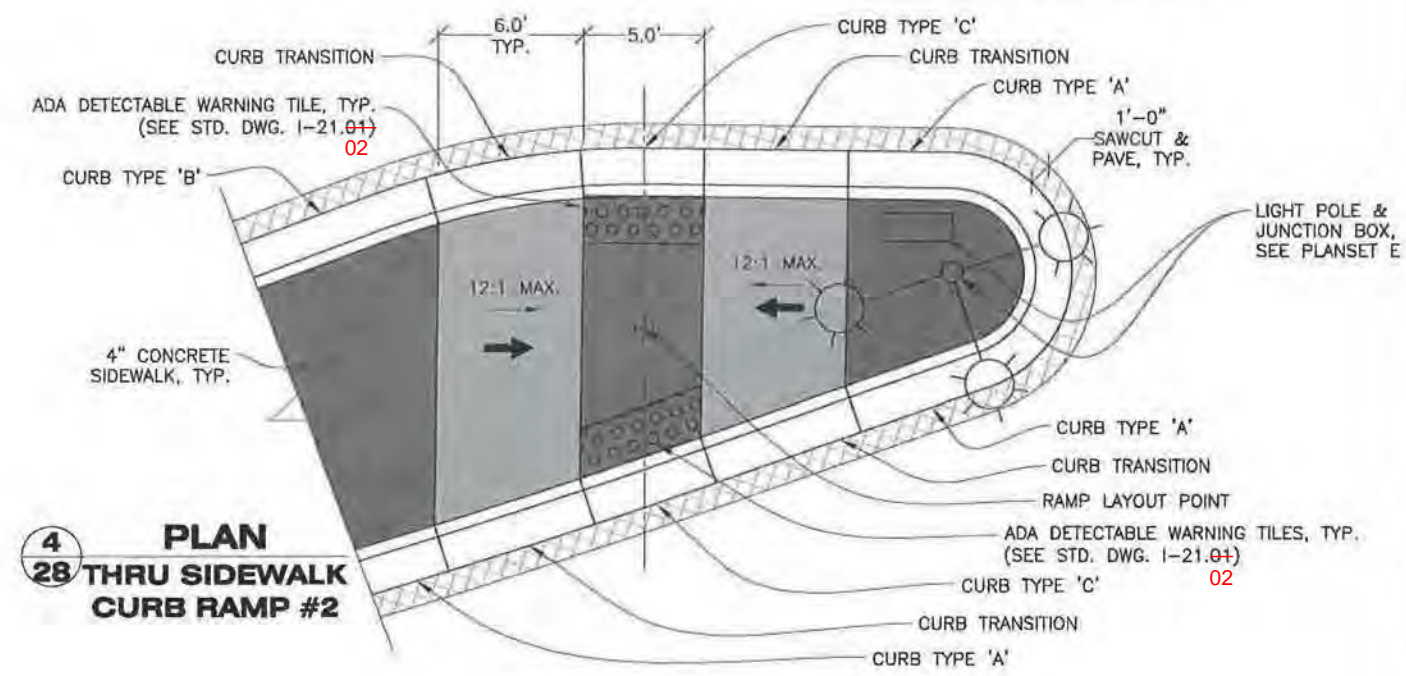
\*THIS RAMP IS DESIGNATED FOR PLACEMENT OF (2) 2-YD. MUNICIPAL TRASH BINS.



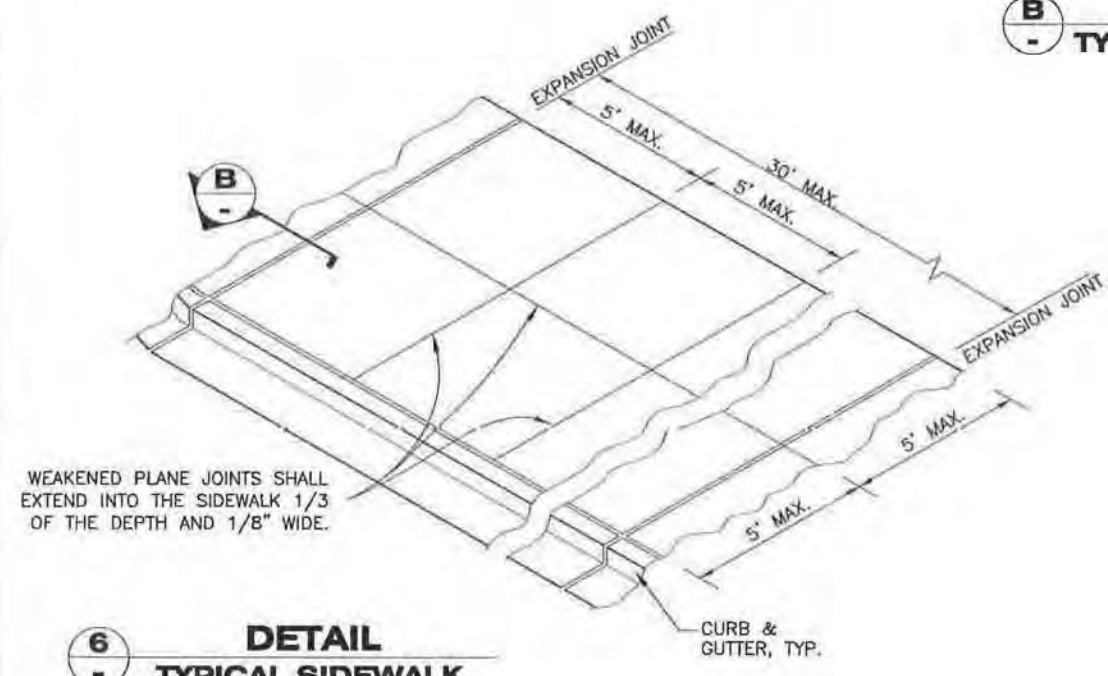
**A**  
**SECTION**  
**RAMPED ISLAND END**



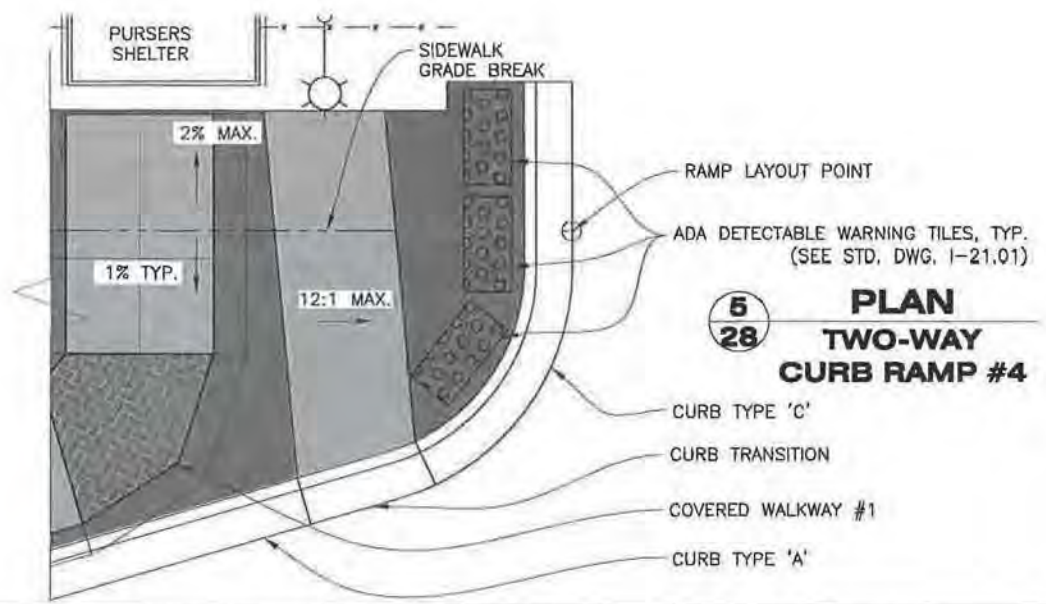
**B**  
**SECTION**  
**TYPICAL EXPANSION JOINT**



**4**  
**28** **PLAN**  
**THRU SIDEWALK**  
**CURB RAMP #2**



**6**  
**DETAIL**  
**TYPICAL SIDEWALK,**  
**CURB & GUTTER JOINTS**

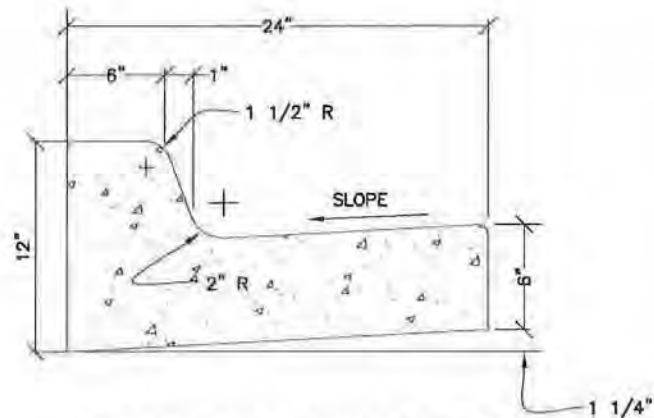


**5**  
**28** **PLAN**  
**TWO-WAY**  
**CURB RAMP #4**

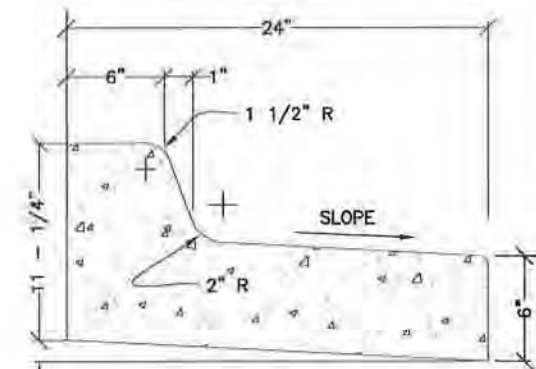
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

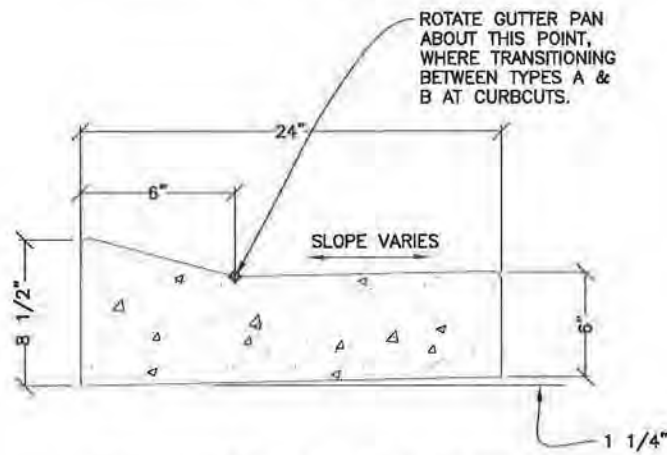
DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A
CHECKED BY: K. MILLER	<b>MISCELLANEOUS DETAILS</b>
DRAWN BY: STAFF	
PATH: G:\VNS\88433\PLANSET\MP\PLANSET A\27-31 - MISC DETS.DWG	
TAB: 28 Tuesday, January 21, 2014 11:56:05 AM	OSBURN, JOEL D (007)
NO.	REVISIONS
DATE	DESCRIPTION
PROJECT DESIGNATION	
YEAR	
SHEET NO.	
TOTAL SHEETS	
88433 / 0955014	
2014	
28	
57	



**STANDARD CURB & GUTTER**  
TYPE A

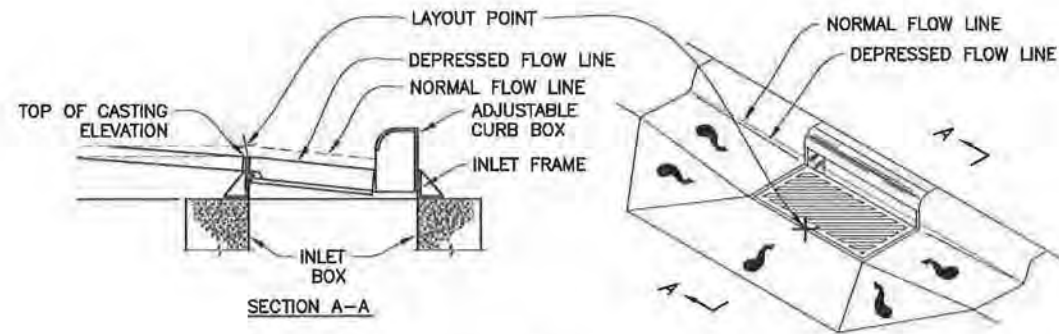


**MODIFIED CURB & GUTTER**  
TYPE B

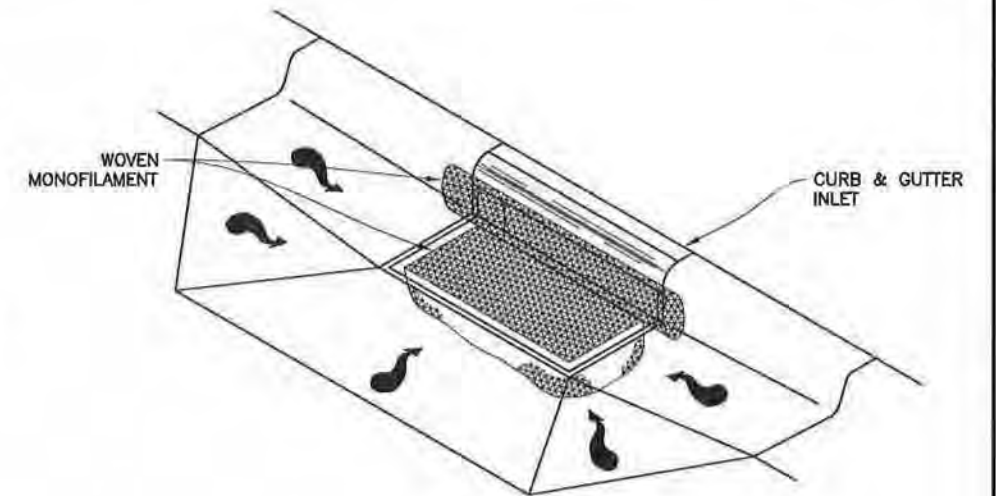


**DEPRESSED CURB & GUTTER**  
TYPE C

USED AT CURB CUTS AND ADA RAMPS  
(SHOWN WITH TYPE A TRANSITION)



**DETAIL**  
TYPICAL CURB INLET

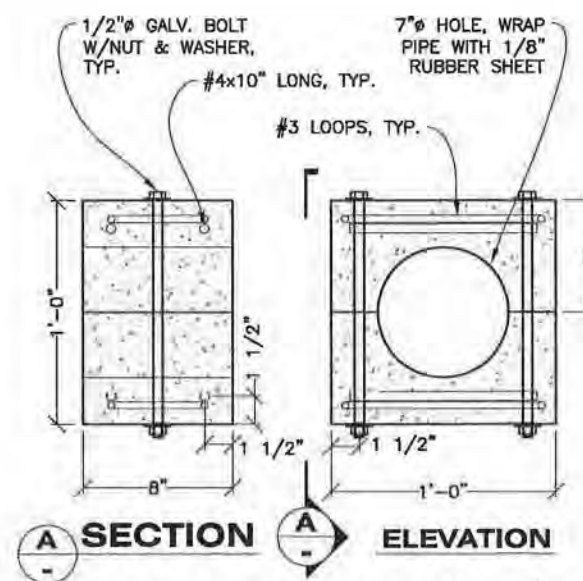


**DETAIL**  
CURB INLET PROTECTION

CATCH BASIN FILTERS SHALL BE USED AT ALL SITES WHERE SEDIMENT IS LIKELY TO BE GENERATED DURING CONSTRUCTION AND WHERE THE FILTERS ARE A REASONABLE MEANS OF TRAPPING IT. REFER TO ESCP SHEET FOR LOCATIONS OF EXISTING & PROPOSED INLETS.

**SIDEWALK, CURB AND GUTTER NOTES**

1. CONCRETE SIDEWALK, CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF CURB RETURNS AND IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30' MAXIMUM.
2. BOTH FRONT AND BACK TOP EDGES OF THE CURB & GUTTER SHALL BE TROWELED TO A RADIUS OF ONE-HALF (1/2) INCH.
3. ALL JOINTS AND SEAMS SHALL BE EDGED. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES. CURING COMPOUND SHALL BE APPLIED TO THE CONCRETE. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
4. REFERENCE STANDARD DRAWINGS FOR ADDITIONAL DETAILS.



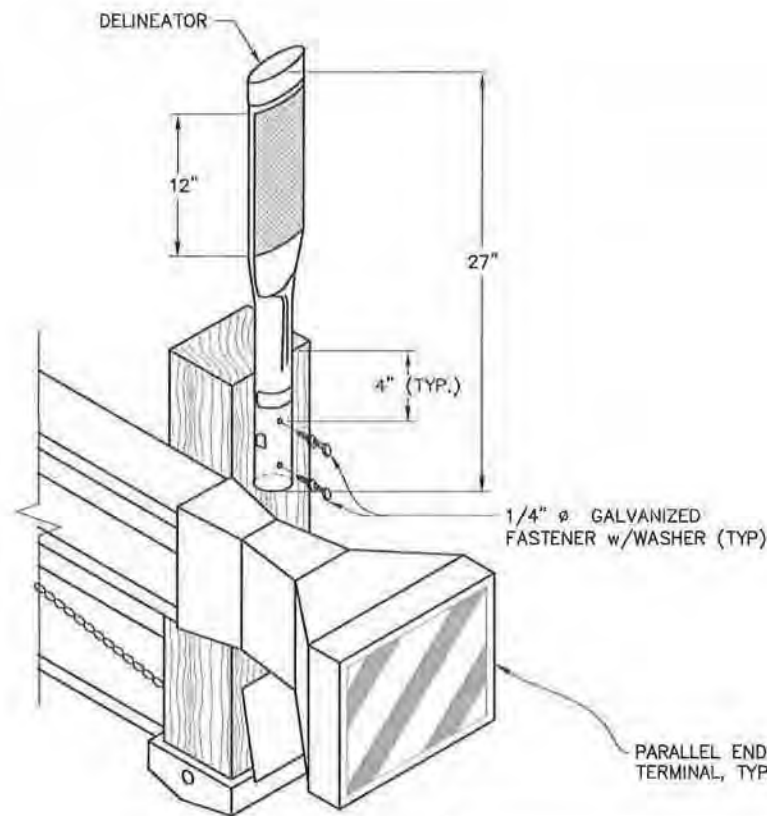
**CONCRETE WEIGHT**  
REFER TO DREDGING EXCAVATION SHEET FOR SEWER  
EXTENSION PLAN & SECTION

Record Drawings have been reviewed  
by the Project Engineer, and represent  
to the best of my knowledge, the  
project as constructed.

PE *K Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

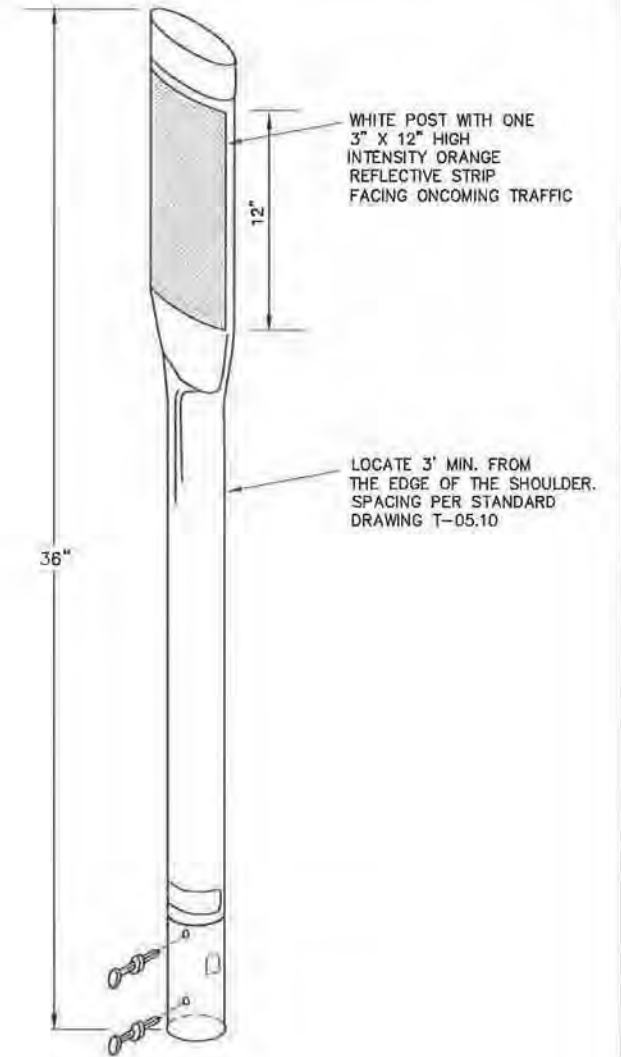
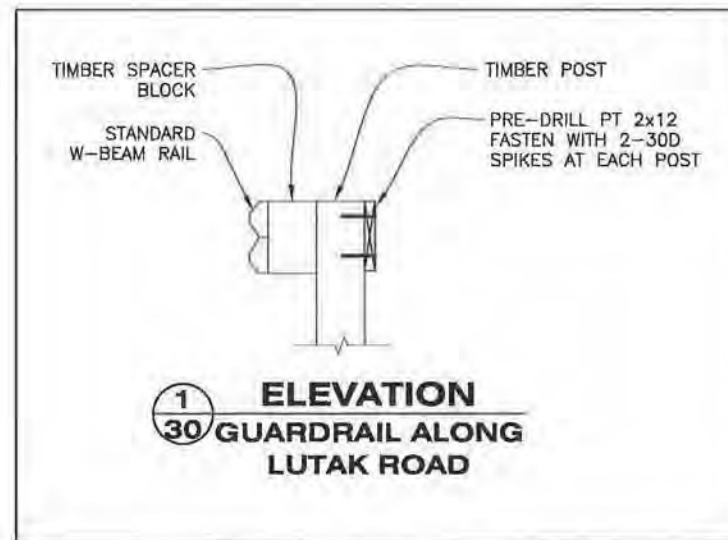
DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION		
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>		
		<b>MISCELLANEOUS DETAILS</b>		
CHECKED BY: K. MILLER		OSBURN, JOEL D. (DOT)		
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REVISIONS		PROJECT DESIGNATION		
NO.	DATE	DESCRIPTION	YEAR	SHEET NO.
1	2/21/14	ADDED CONCRETE WEIGHT DETAILS	2014	29
		68433 / 0955014		57



**DETAIL**  
**GUARDRAIL DELINEATOR**  
NTS

**GUARDRAIL DELINEATOR NOTE:**

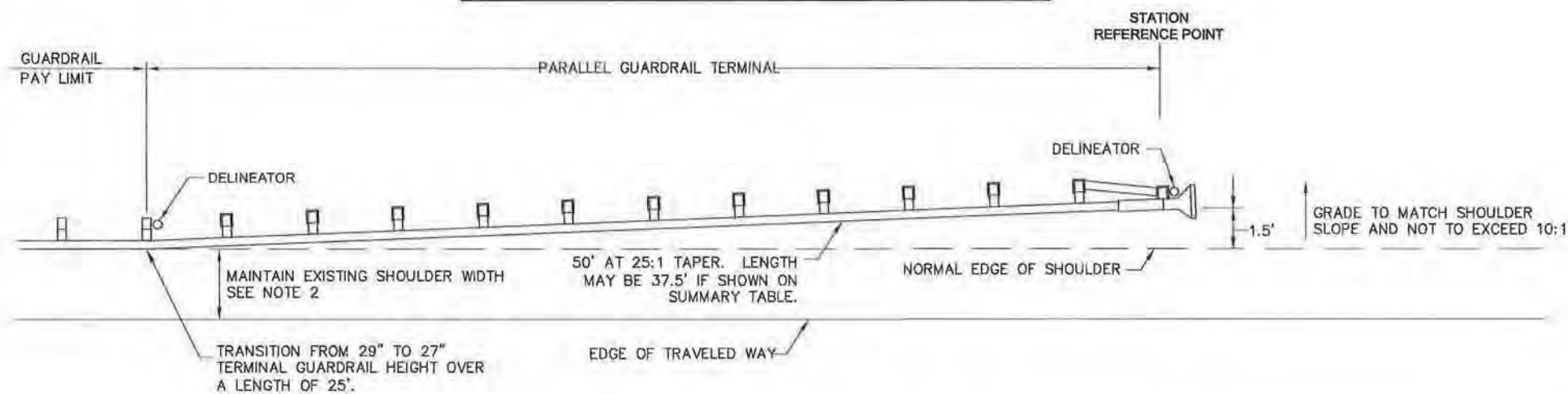
1. EACH PARALLEL GUARDRAIL END SHALL HAVE A DELINEATOR ON THE END POST OF EACH TERMINAL AND WHERE THE TAPER BEGINS.



**FLEXIBLE DELINEATOR**  
NTS

**DELINEATOR NOTES:**

1. DELINEATORS SHALL BE INSTALLED EVERY 50' ON GUARDRAIL ADJACENT TO LUTAK ROAD.
2. DELINEATORS SHALL BE INCIDENTAL TO ITEM 606(1).



**PARALLEL GUARDRAIL TERMINAL INSTALLATION WIDENING DETAILS**  
NTS

**PARALLEL GUARDRAIL NOTES:**

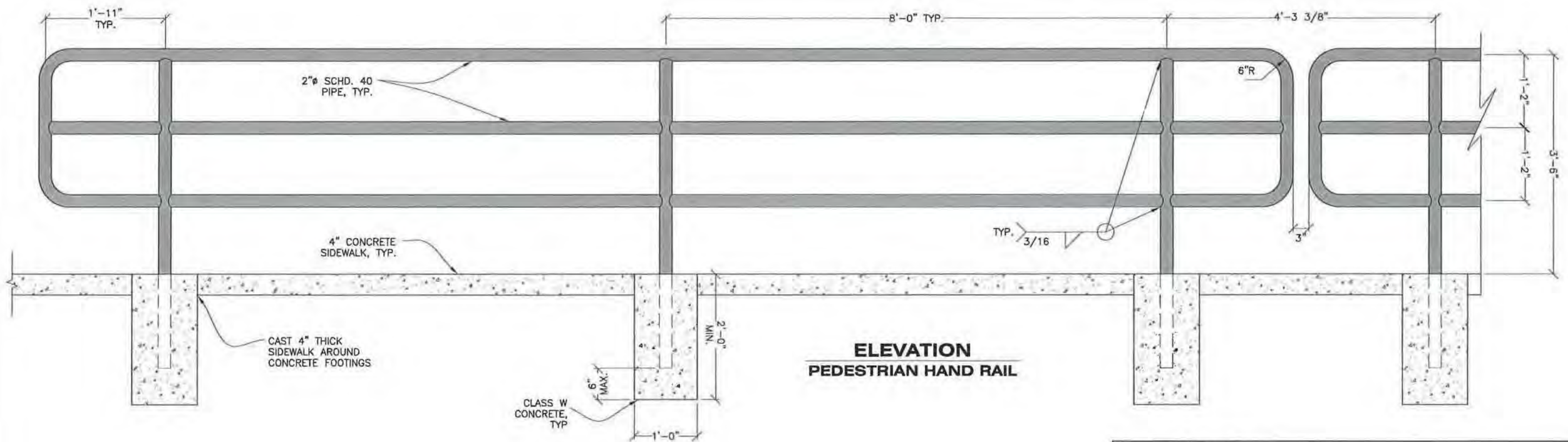
1. THE TERMINAL DETAILS SHOWN ARE FOR ILLUSTRATION ONLY. INSTALL TERMINAL SECTIONS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
2. SEE STD DWG. G-20.10 WIDENING FOR GUARDRAIL END TERMINAL. CONSTRUCT TERMINAL WITH END OFFSET OF 1.5' FROM NORMAL GUARDRAIL FACE.
3. END TERMINALS TO REMAIN AT 27" HEIGHT. TRANSITION FROM 29" TO 27" OVER A LENGTH OF 25'

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

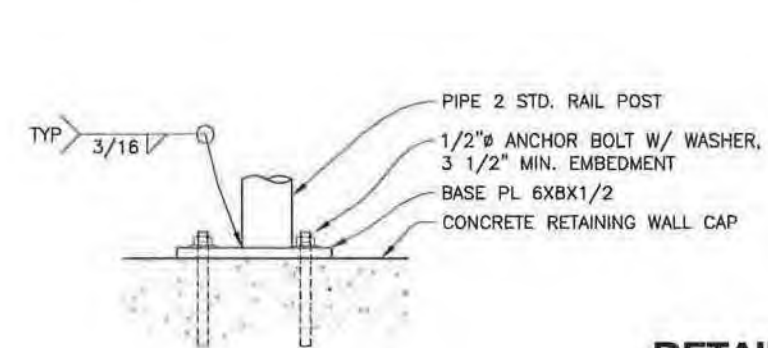
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

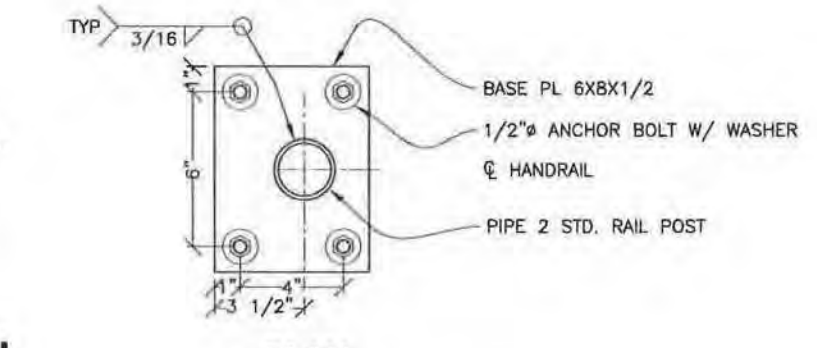
DESIGNED BY: J. OSBURN  CHECKED BY: K. MILLER DRAWN BY: STAFF		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET A</b>  <b>MISCELLANEOUS          DETAILS</b>			
PATH: D:\HNS\68433\PLANSET\WF\PLANSET A\27-31 - MISC DETS.DWG TAB: 30 Tuesday, January 21, 2014 11:56:30 AM OSBURN, JOEL D (DOT)		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		<b>68433 / 0955014</b>	<b>2014</b>	<b>30</b>	<b>57</b>



**ELEVATION  
PEDESTRIAN HAND RAIL**



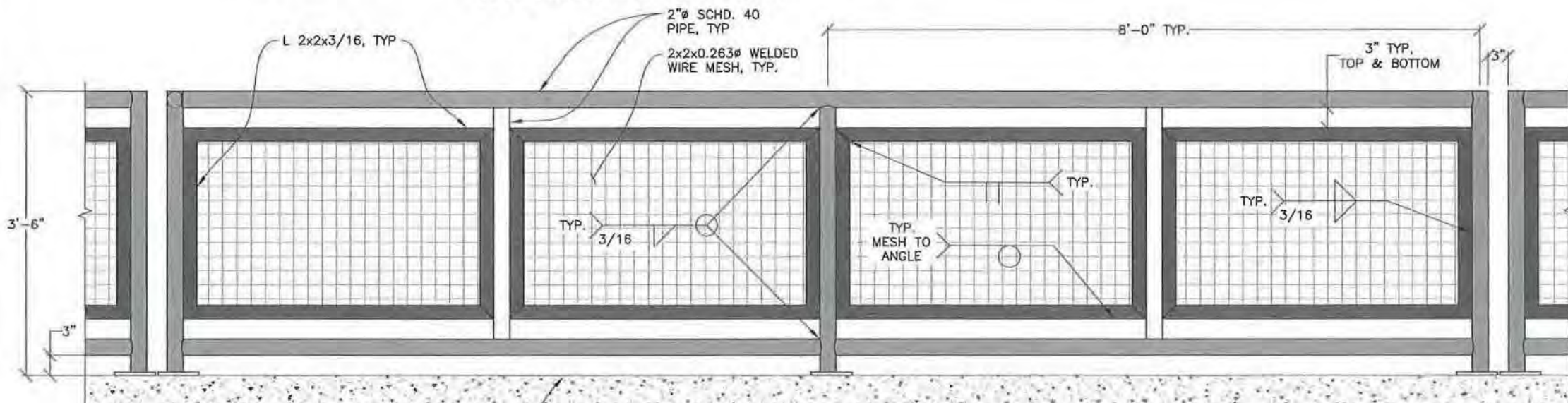
**SECTION**



**PLAN**

**DETAIL  
RAIL BASEPLATE & SOCKET**

- HANDRAIL NOTES:**
1. REFERENCE THE DOCK MODIFICATION SHEETS FOR LAYOUT OF SAFETY HAND RAIL ALONG THE RETAINING WALL CONCRETE CAP. VERIFY ALL RAIL LENGTHS AND OTHER CONTROLLING DIMENSIONS (BREAK IN HANDRAIL AT THE DOLPHIN ACCESS CATWALK/FENCE GATE) IN THE FIELD BEFORE FABRICATION.
  2. ALL RAILING MEMBERS AND ASSOCIATED HARDWARE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
  3. SPACING OF VERTICAL POST MEMBERS SHALL BE UNIFORM AND OF THE TYPICAL SPACING NOTED, BUT THE SPACING MAY VARY IF NEEDED TO FIT THE OVERALL REQUIRED BARRIER LENGTH.
  4. WIRE MESH TO BE WELDED TO INSIDE EDGE OF ANGLES OF SAFETY HANDRAIL. FABRICATE & INSTALL SO THAT FACE OF ANGLES ARE VISIBLE TO PUBLIC.

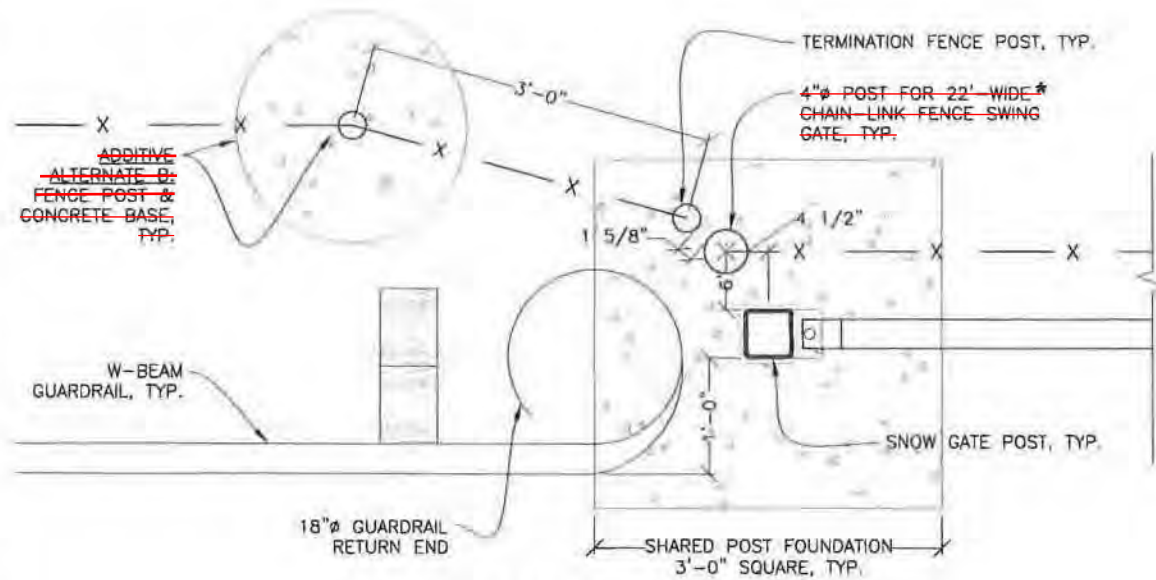


**ELEVATION  
SAFETY HAND RAIL**

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN  CHECKED BY: K. MILLER DRAWN BY: STAFF		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET A</b> <b>MISCELLANEOUS          DETAILS</b>			
PATH: Q:\HNS\68433\PLANSET\MF\PLANSET A\27-31 - MISC DETS.DWG TAB: 31 Monday, January 27, 2014 5:01:33 PM		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2014</b>	SHEET NO. <b>31</b>	TOTAL SHEETS <b>57</b>
OSBURN, JOEL D. (DOT)					



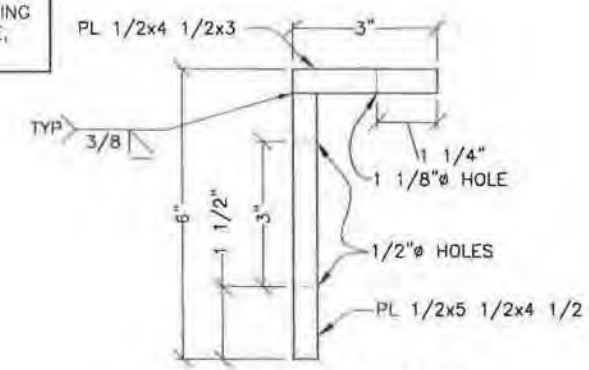
**PLAN**  
**SNOW & SWING GATES, FENCING**  
**& GUARDRAIL LAYOUT**

**\* PROVIDE 22' WIDE SWING GATE BEHIND EACH SNOW GATE FOR SECURE OPENINGS IN THE 6' HIGH CHAIN-LINK PERIMETER FENCE, AS PART OF ADDITIVE ALTERNATE B. REFER TO STD. DWG. F-03.01 FOR SWING GATE DETAILS.**

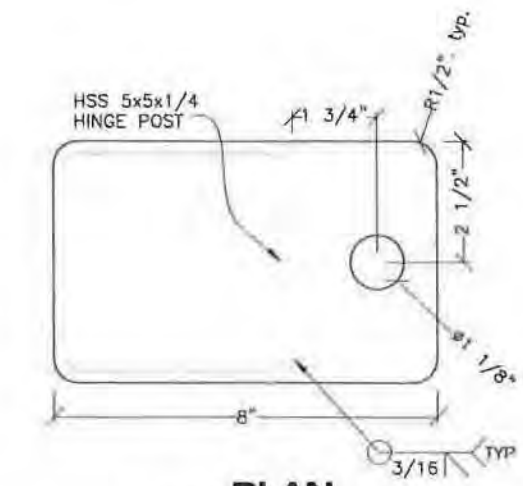
THE CONTRACTOR HAS THE OPTION OF SUBSTITUTING SLIDE GATES FOR SWING GATES IN THIS INSTANCE, WITH THE APPROVAL OF THE ENGINEER.

**SNOW GATE NOTES:**

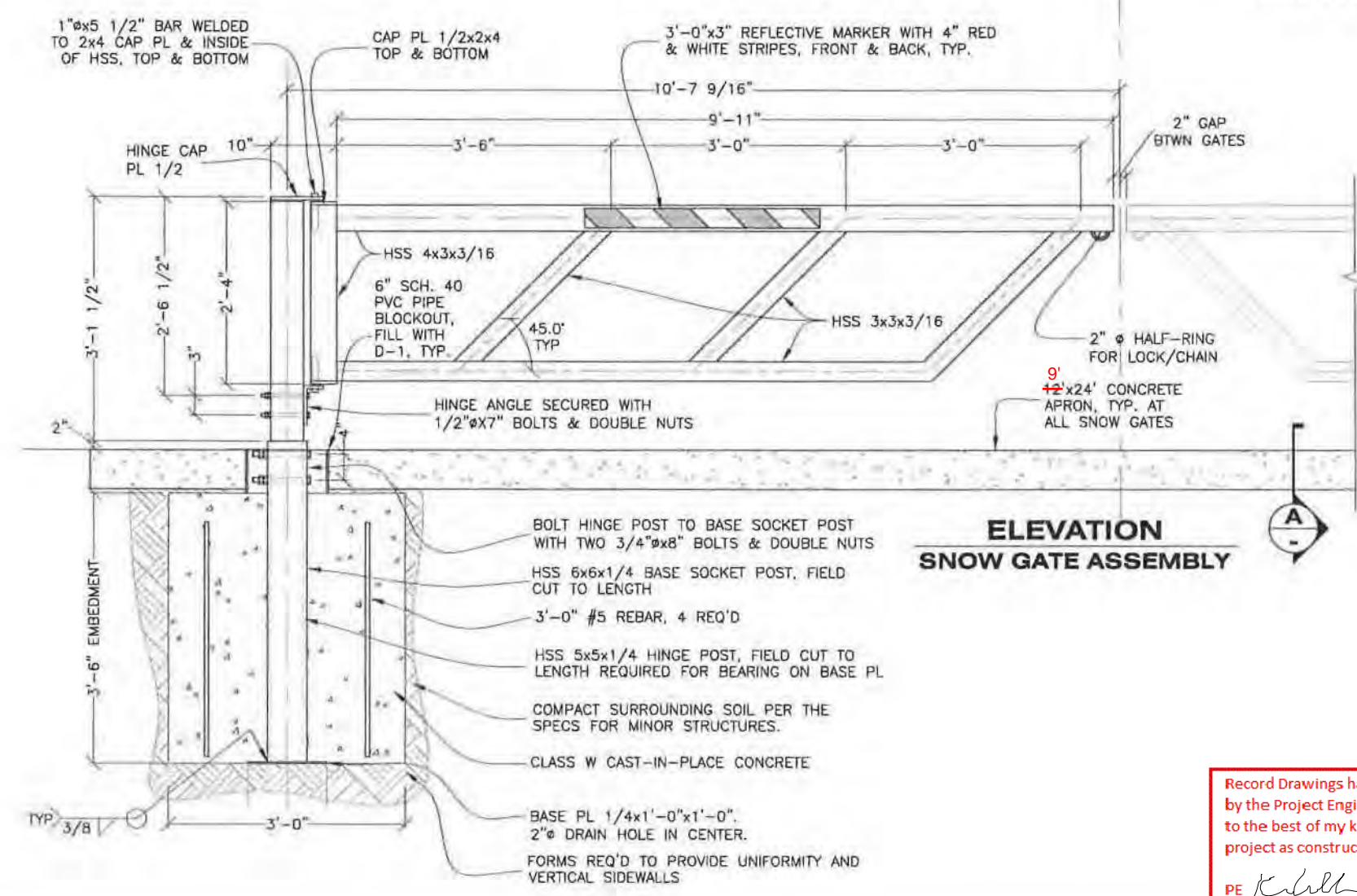
1. PER EACH SNOW GATE INSTALLATION SHOWN ON THE PLANS, PROVIDE FOR A 20' CLEAR WIDTH OPENING AS SHOWN.
2. THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITIES (EXISTING & PROPOSED) PRIOR TO BEGINNING EXCAVATION. REFER TO PLANSET E FOR NEW ELECTRICAL UTILITIES.
3. ALL WELDS ARE 1/4" UNLESS OTHERWISE NOTED ON THIS SHEET.



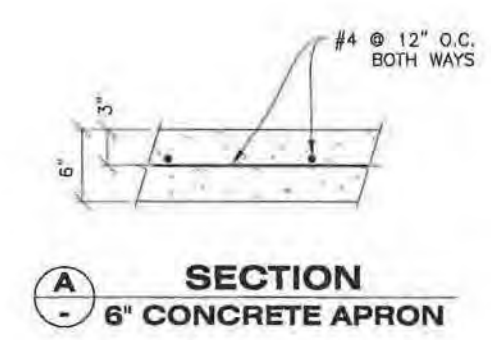
**SIDE ELEVATION**  
**HINGE ANGLE**



**PLAN**  
**HINGE CAP PL 1/2**



**ELEVATION**  
**SNOW GATE ASSEMBLY**



**SECTION**  
**6" CONCRETE APRON**

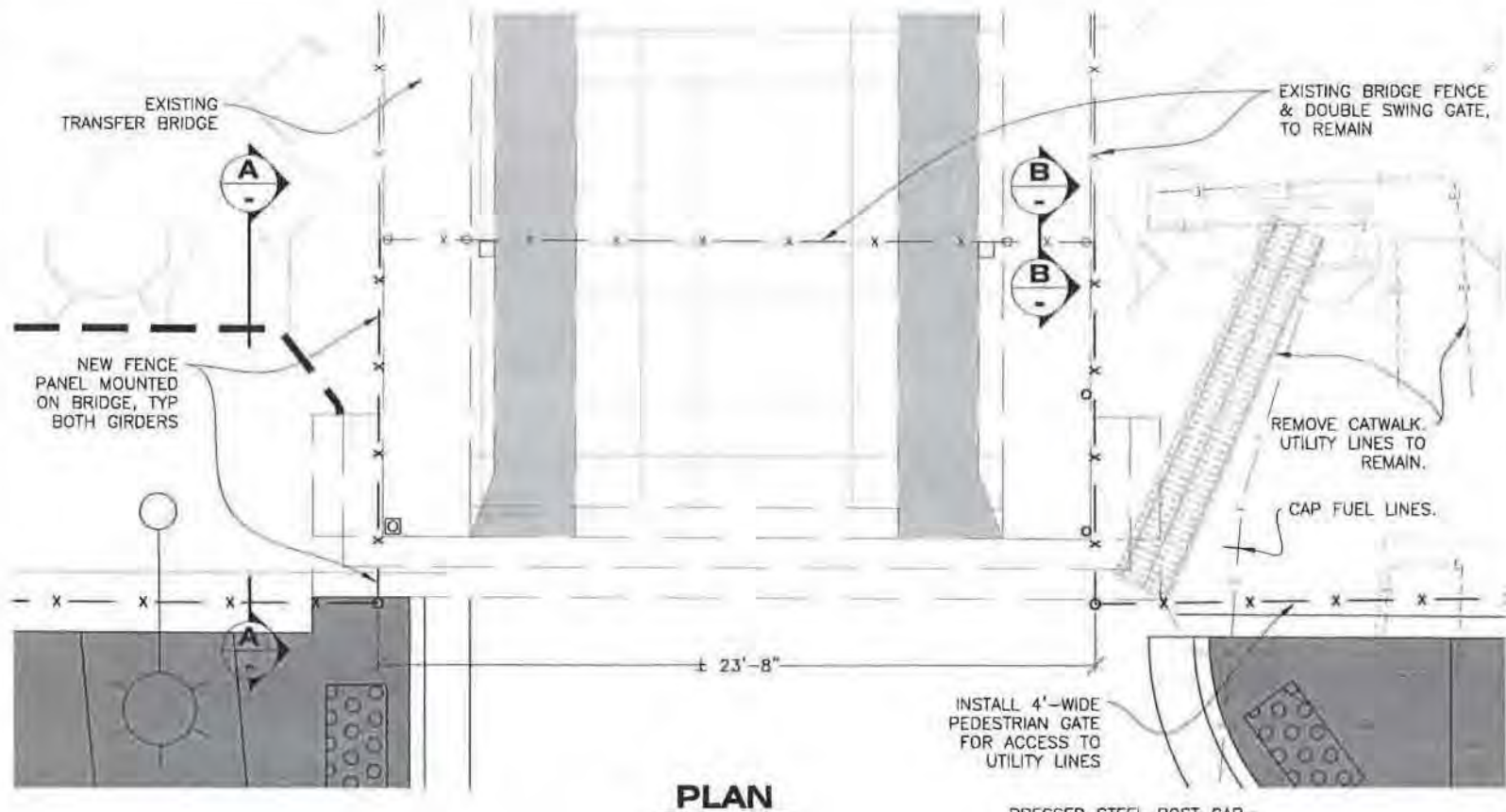
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

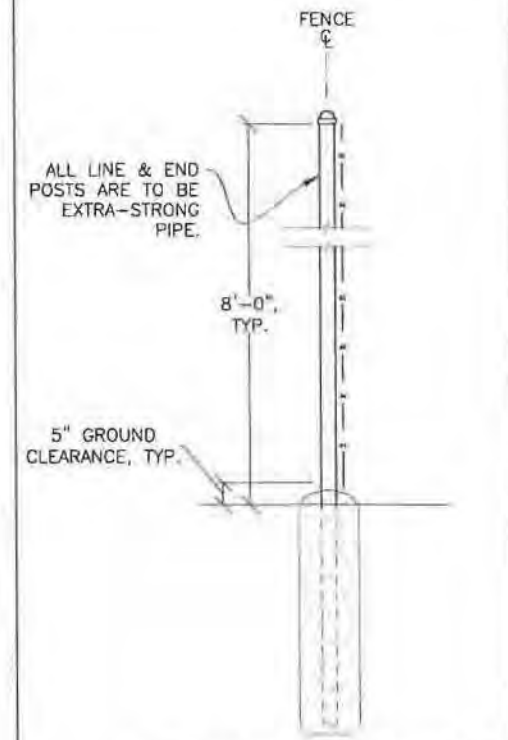
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS

DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION		
CHECKED BY: K. MILLER	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A		
DRAWN BY: STAFF	FENCE & GATE DETAILS SNOW GATE		
PATH: 0:\HNS\68433\PLANSET\MP\PLANSET A\32-34 - FENCE & GATE DETS.DWG	YEAR: 2014	SHEET NO.: 32	TOTAL SHEETS: 57
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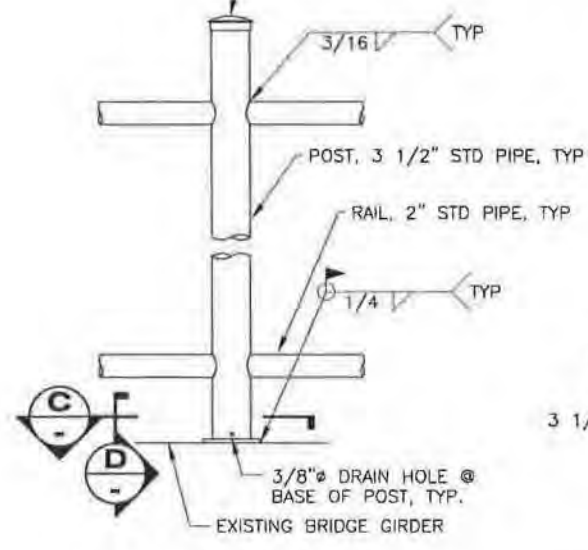
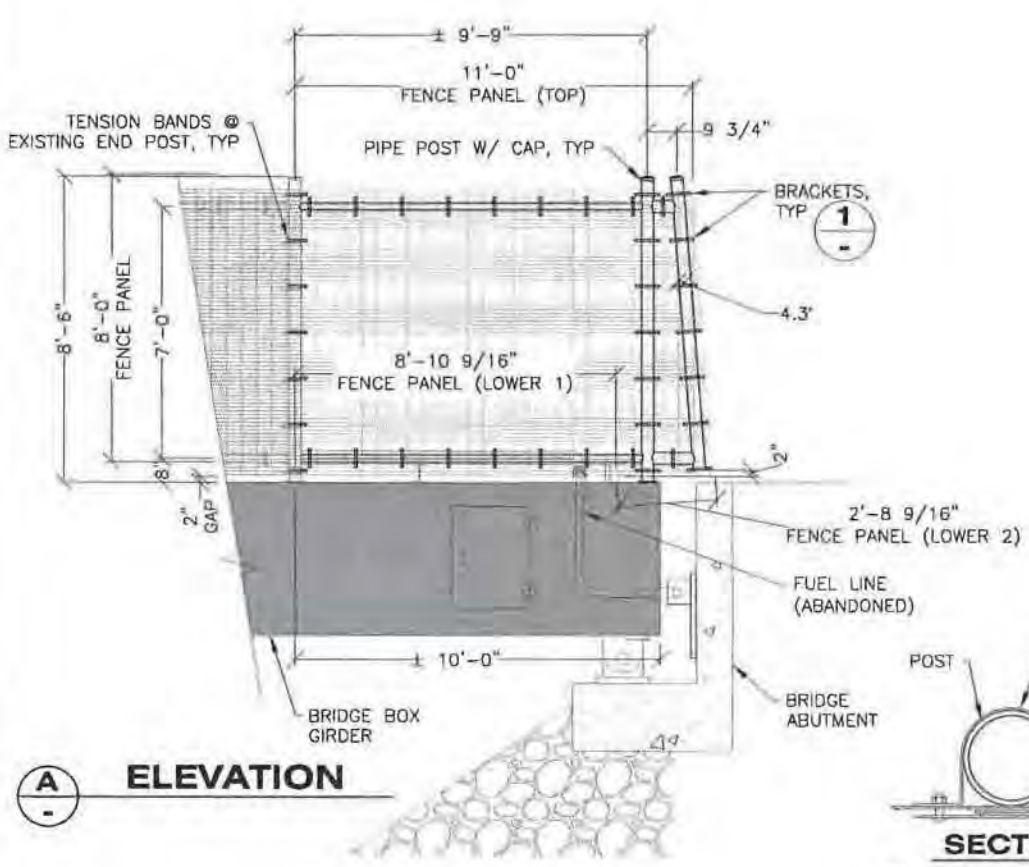




- BRIDGE FENCE NOTES:**
1. FIELD VERIFY ALL GATE AND FENCE DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION. PROVIDE SHOP DRAWINGS & MATERIAL SUBMITTAL FOR APPROVAL PRIOR TO MATERIAL PROCUREMENT.
  2. MODIFY WELDED WIRE FENCING AS REQUIRED TO PROVIDE CLEARANCE & PENETRATIONS FOR EXISTING UTILITIES & STRUCTURES INCLUDING ELECTRICAL CONDUIT, PIPING, RAILINGS, LIGHTING, PLUMBING, ETC.
  3. ALL POSTS, RAILS, AND FRAMES SHALL BE SCHEDULE 40 PIPE OF THE NOMINAL DIAMETER INDICATED ON THE PLANS.
  4. STEEL PIPE FRAMEWORK AND ALL ACCESSORIES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. HARDWARE COATINGS SHALL CONFORM TO ASTM A153.
  5. WELDED WIRE FABRIC SHALL BE FABRICATED FROM PRE-GALVANIZED LOW CARBON STEEL WIRE IN ACCORDANCE WITH ASTM F2453 MESH SIZE: 1/2 IN.X3 IN.X10 GAUGE AFTER WELDING COAT PANEL WITH 4 MIL MINIMUM POLYMER COATING. ALL CUT ENDS SHALL BE COATED WITH VINYL AT THE FACTORY. FABRIC MANUFACTURER: C.E. SHEPARD COMPANY, HOUSTON, TX, OR AN APPROVED EQUAL.
  6. FITTINGS AND ACCESSORIES: POST TOPS ARE PRESSED STEEL FOR TUBULAR POST. TENSION BANDS SHALL BE HEAVY PRESSED STEEL, 3/4 IN.X1/10 IN. NOMINAL FASTENED WITH 5/16" CARRIAGE BOLTS. BRACKETS SHALL BE 1 IN.X10 GAUGE, TWO PIECE BRACKETS FASTENED WITH 5/16" CARRIAGE BOLTS.
  7. SECURE FABRIC TO END, CORNER AND GATE POST WITH TENSION BANDS AT INTERVALS NOT TO EXCEED 15 IN. SECURE FABRIC TO LINE POST AND RAILS WITH BRACKETS AT INTERVALS NOT TO EXCEED 18 IN.
  8. PROVIDE 3/8" Ø WEEP HOLES AT BASE OF ALL POSTS & BRACES.
  9. ATTACH FENCE FABRIC TO EXTERIOR FACE OF POSTS & GATES.
  10. THOROUGHLY REMOVE EXISTING COATINGS AND CLEAN ALL PAINTED AND GALVANIZED STEEL SURFACES PRIOR TO FIELD WELDING. REPAIR ALL COATINGS IN ACCORDANCE WITH SPECIFICATION 504-3.03.

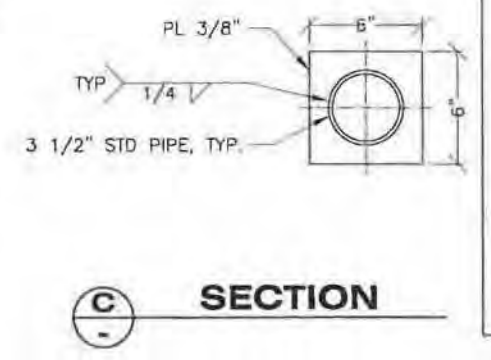


**TYPICAL SECTION CHAIN LINK FENCE**

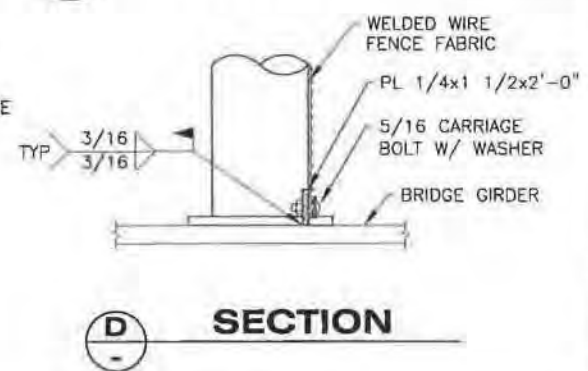
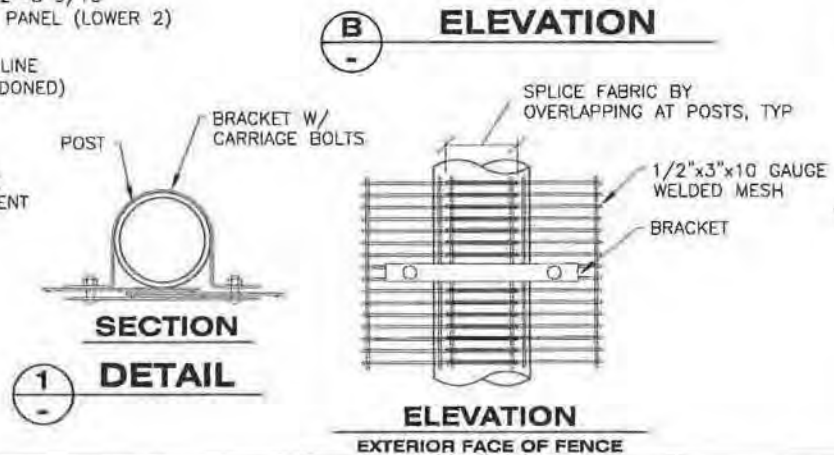


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16



- TYPICAL FENCE & GATE NOTES:**
1. FOR FENCE & SWING GATE DETAILS, REFER TO STANDARD DRAWINGS F-01.01 & F-03.01.
  2. THE CONTRACTOR SHALL VERIFY EXISTING FIELD DIMENSIONS PRIOR TO ORDERING FENCING MATERIALS.
  3. THE CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION WORK. REFER TO PLANSET E FOR NEW ELECTRICAL UTILITIES.
  4. THE CONTRACTOR SHALL PRODUCE 1-FOOT OF 3/8" GALV CHAIN AND KEYED PADLOCK FOR EACH GATE. PADLOCK SHALL BE ALL-WEATHER COMMERCIAL GRADE BRUSHED BRASS ABUS 831C/50 MODEL OR APPROVED EQUAL. LOCKS SHALL HAVE CYLINDERS WITH SEVEN-PIN TUMBLERS AND REMOVABLE CORES WITH 'E' KEY WAY. PROVIDE FOUR COPIES OF KEYS TO HAINES TERMINAL MANAGER. SEE VOLUME II OF THE SPECIFICATIONS FOR COORDINATION WITH AMHS.



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER

DRAWN BY: STAFF

PATH: D:\HNS\08423\PLANSET\WF\PLANSET A\32-54 - FENCE & GATE DETS.DWG

TAB: 33

REVISIONS:

NO	DATE	DESCRIPTION

PROJECT DESIGNATION: 68433 / 0955014

YEAR: 2014

SHEET NO.: 33

TOTAL SHEETS: 57

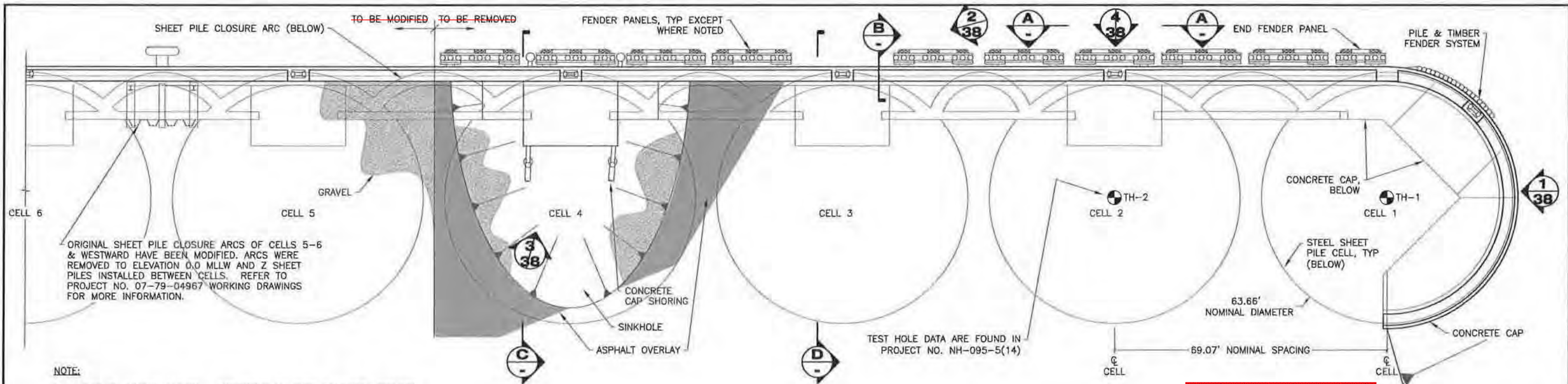
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION

HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A

ADDITIVE ALTERNATE B:

FENCE & GATE DETAILS BRIDGE FENCE

OSBURN, JOEL D (DOT)

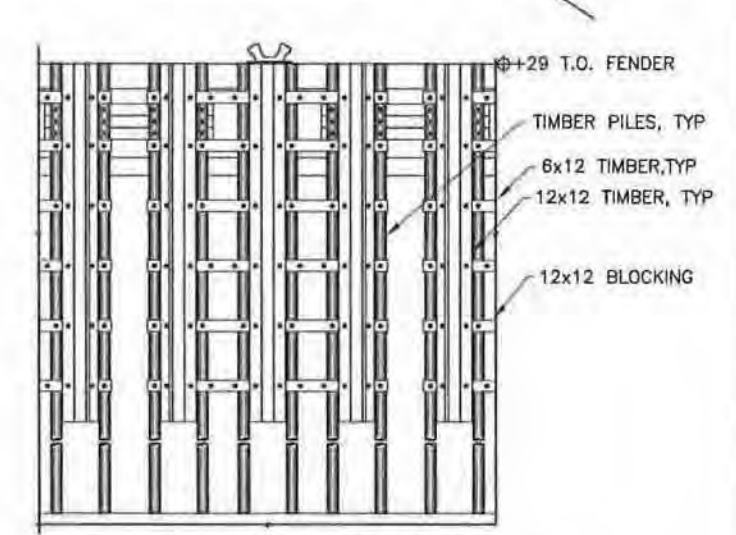
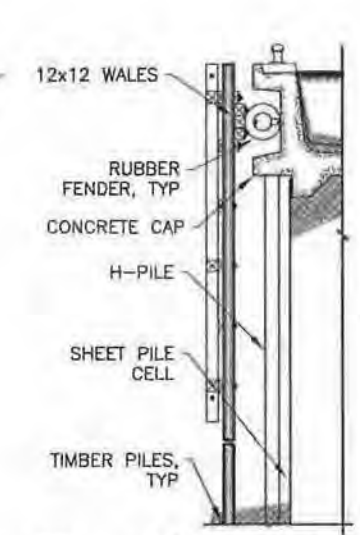
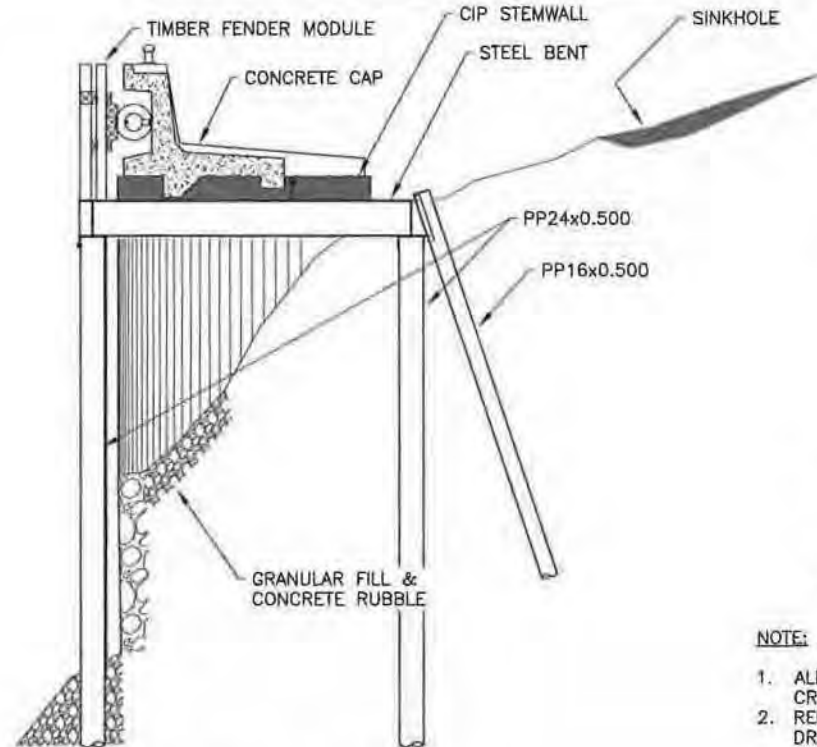
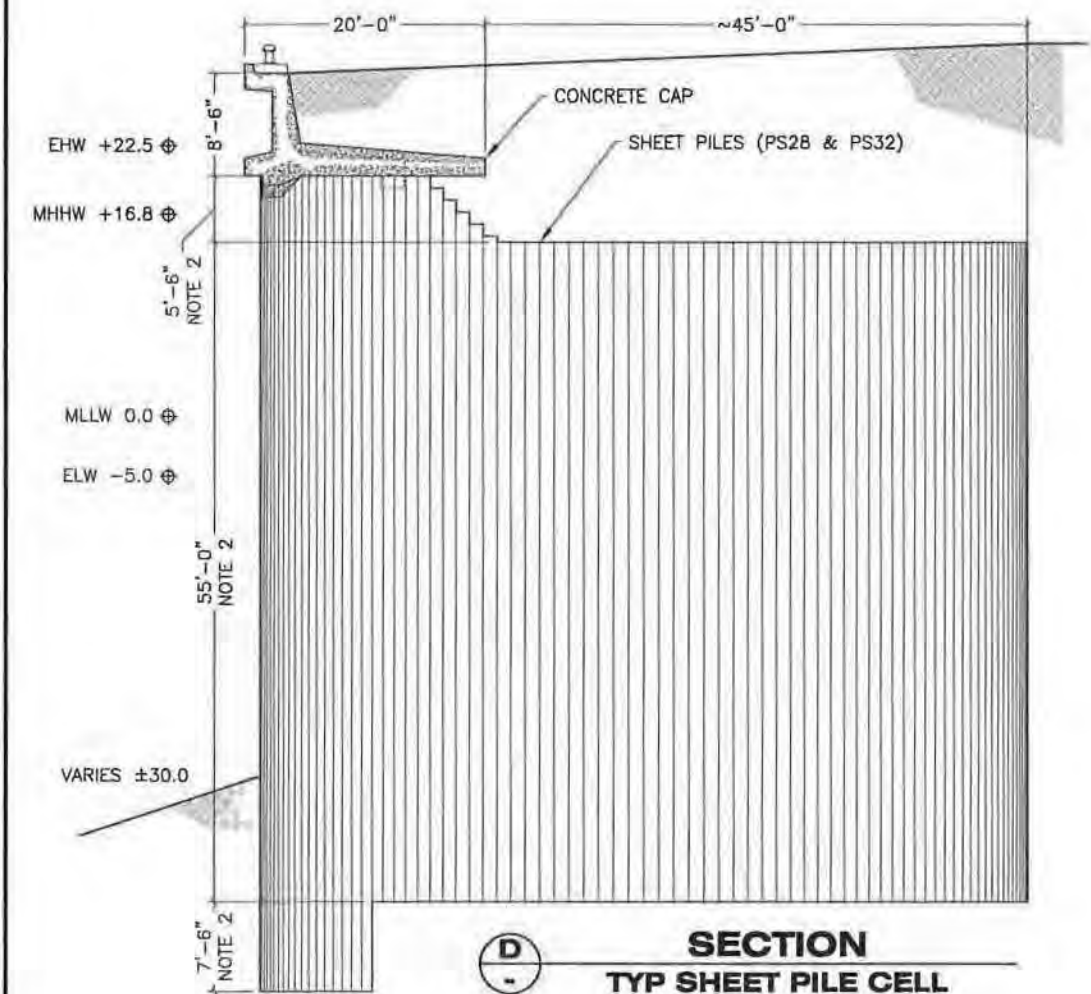


**NOTE:**

1. REFER TO HAINES, ALASKA - EXPANSION OF PORT FACILITIES, PROJECT NO. 88-01-07 WORKING DRAWINGS FOR INFORMATION ABOUT CONSTRUCTION OF CELLS AND CONCRETE CAP.
2. AS-BUILT LENGTH OF SHEET PILES IS UNKNOWN. LENGTHS SHOWN HERE ARE SCALED FROM AVAILABLE DRAWINGS AND ARE APPROXIMATE.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

**PLAN - LUTAK DOCK EXISTING**



**SECTION C CAP SHORING**

**NOTE:**

1. IN 2004, SHEET PILES AT THE FACE OF CELL 4 SEPARATED, PERMITTING EROSION OF THE RETAINED FILL. TWO STEEL BENTS WERE INSTALLED TO STABILIZE THE CONCRETE CAP WHERE IT SPANNED ACROSS THE SINKHOLE. REFER TO PROJECT NO. 75249 WORKING DRAWINGS, SHEET 19 FOR ADDITIONAL INFORMATION ABOUT SHORING OF CONCRETE CAP AT CELL 4.
2. PIPE PILE DATA ARE FOUND IN DRIVING LOGS OF PROJECT NO. 75249.

**NOTE:**

1. ALL PILES AND TIMBERS ARE CREOSOTE PRESSURE TREATED.
2. REFER TO PROJECT 75210 WORKING DRAWINGS FOR ADDITIONAL INFORMATION ABOUT TIMBER FENDER MODULES.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: T. DOGGETT 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>	
CHECKED BY: D. LOWELL DRAWN BY: STAFF		<b>DOCK MODIFICATIONS EXISTING</b>	
PATH: D:\HNS\88433\PLANSET\MP\PLANSET A\35-38 41-47 DOCK MODIFICATIONS.DWG TAB: 35 Thursday, January 30, 2014 1:47:07 PM DOGGETT, TIMOTHY H. (DOT)		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2014</b>
SHEET NO. <b>35</b>	TOTAL SHEETS <b>57</b>		



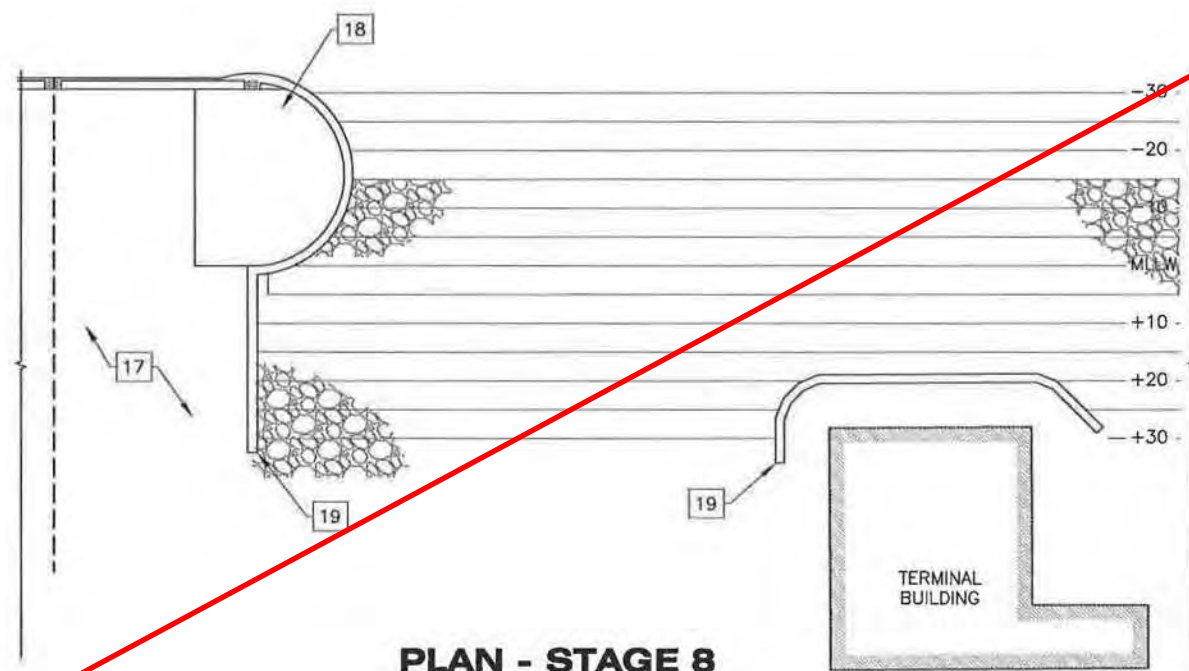
**1**  
**38** LUTAK DOCK - EAST END



**2**  
**38** LUTAK DOCK - DOCK FACE



**3**  
**38** CELL 4 - CONCRETE CAP & SHORING



**PLAN - STAGE 8**

- KEY TO SUGGESTED CONSTRUCTION SEQUENCE (CONTINUED):
- 17. COMPLETE BACKFILL, INSTALLING GEOGRID REINFORCEMENT OVER GEOFOAM.
  - 18. PLACE CONCRETE COPING AT SHEET PILE WALLS.
  - 19. PLACE PORTLAND CEMENT CONCRETE PAVEMENT.



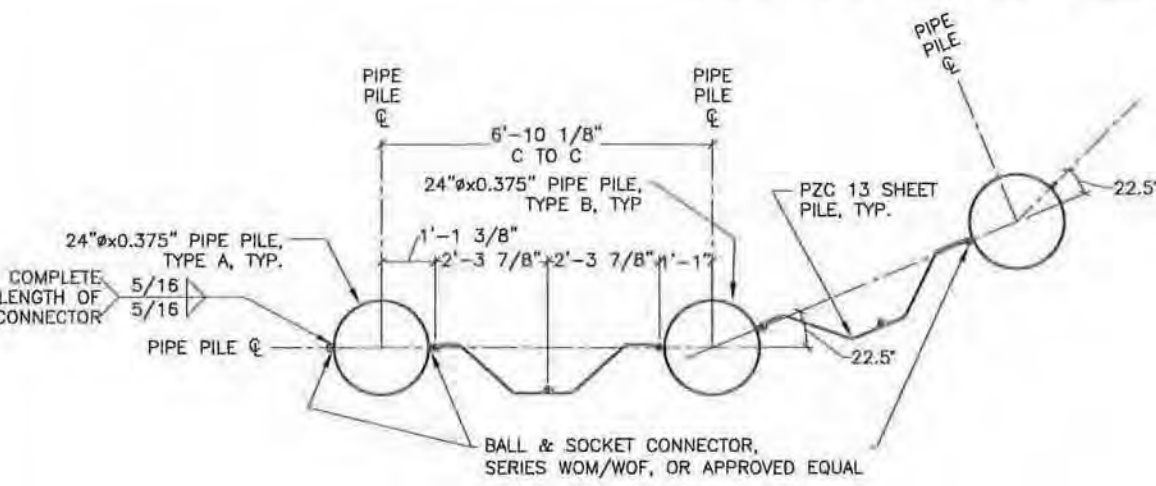
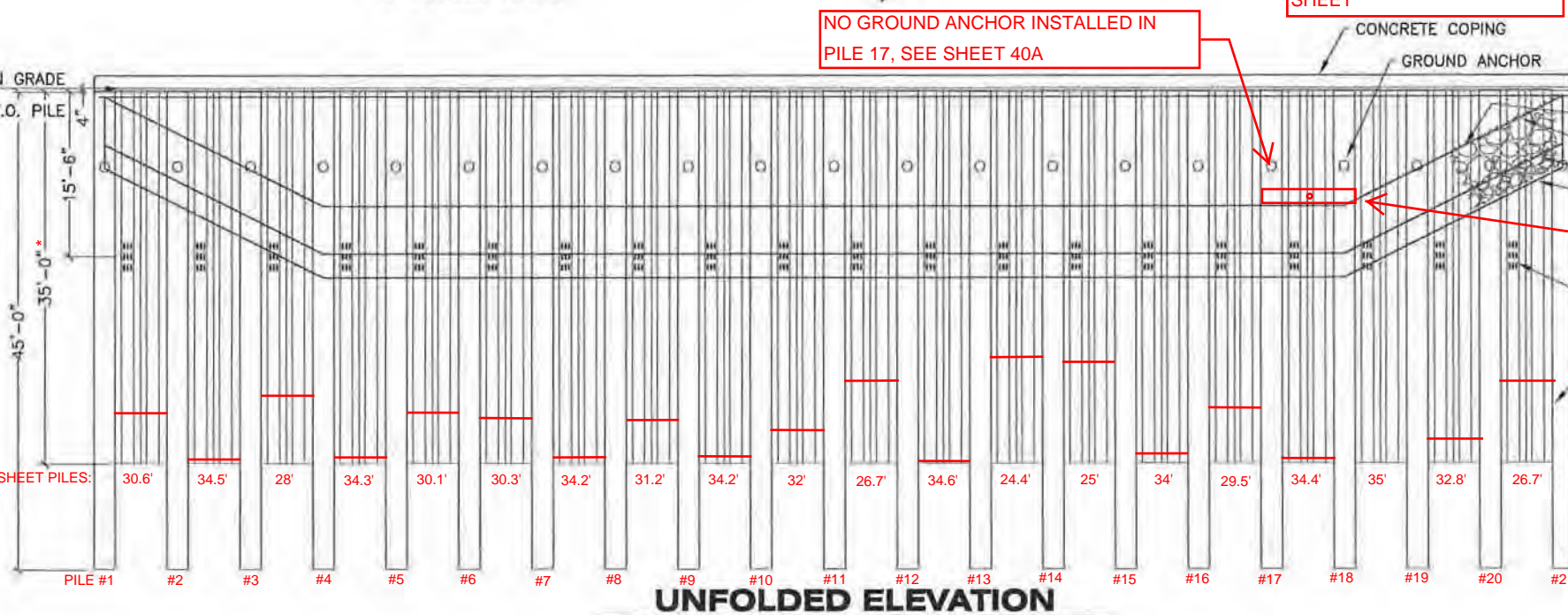
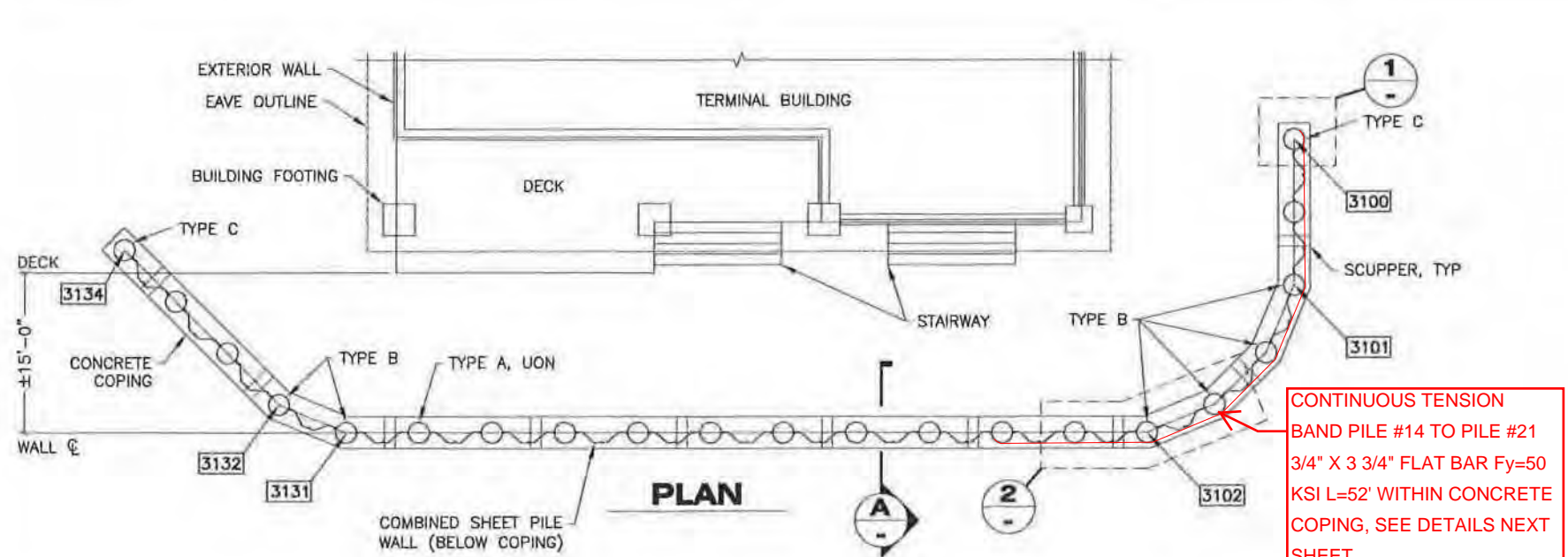
**4**  
**38** TYPICAL FENDER MODULE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

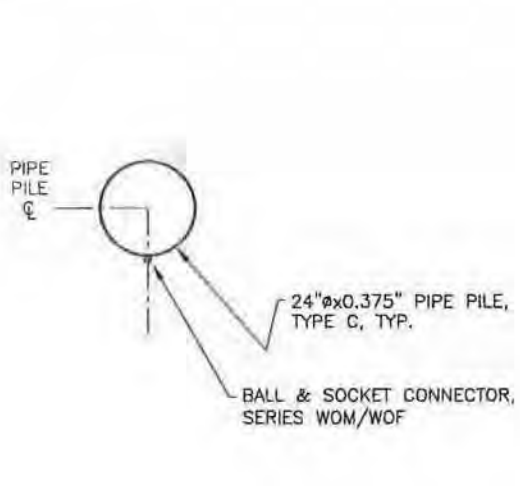
PE *K. Kell* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

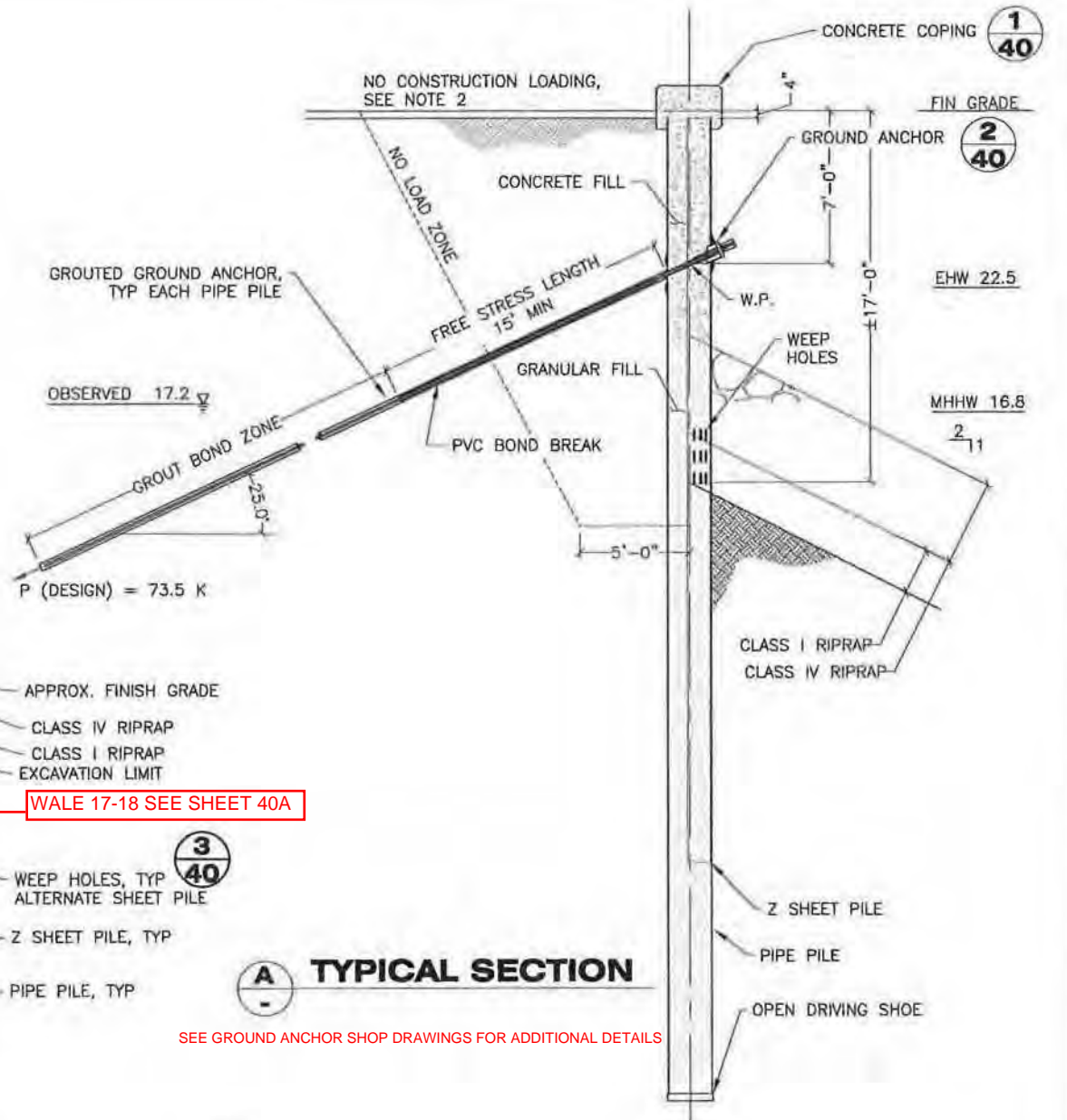
DESIGNED BY: T. DOGGETT  CHECKED BY: D. LOWELL DRAWN BY: STAFF		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>	
<b>DOCK MODIFICATIONS CONSTRUCTION STAGING</b>			
PATH: Q:\HNS\68433\PLANSET\MF\PLANSET A\35-38 41-47 DOCK MODIFICATIONS.DWG TAB: 38 Wednesday, January 22, 2014 4:09:24 PM DOGGETT, TIMOTHY H (DOT)		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2014</b>
REVISIONS NO. DATE DESCRIPTION	SHEET NO. <b>38</b>	TOTAL SHEETS <b>57</b>	



2 PARTIAL PLAN VIEW



1 PARTIAL PLAN VIEW



A TYPICAL SECTION

SEE GROUND ANCHOR SHOP DRAWINGS FOR ADDITIONAL DETAILS

NOTE:

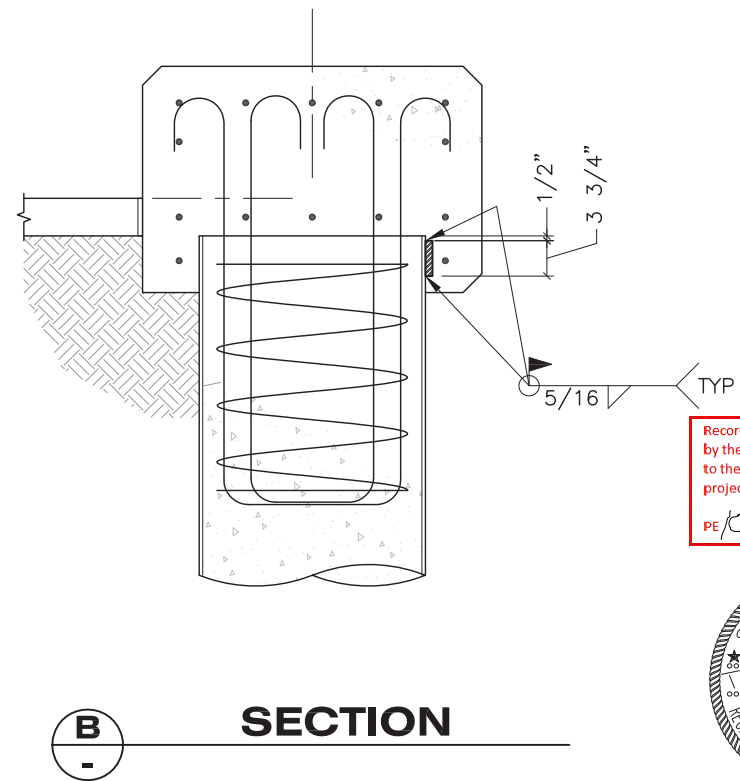
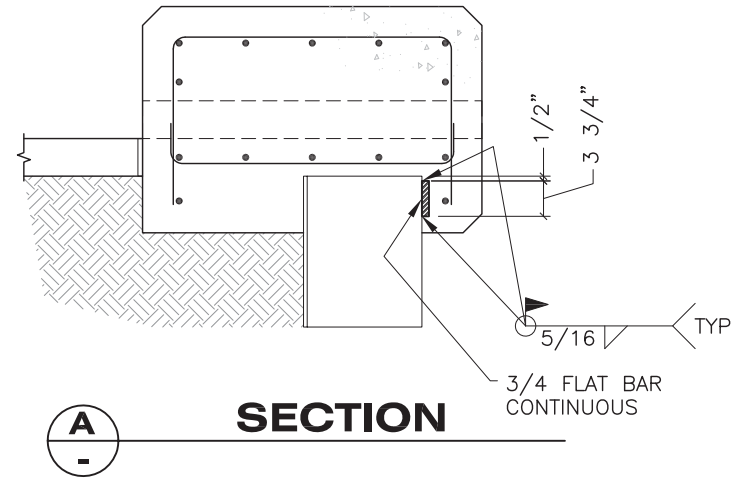
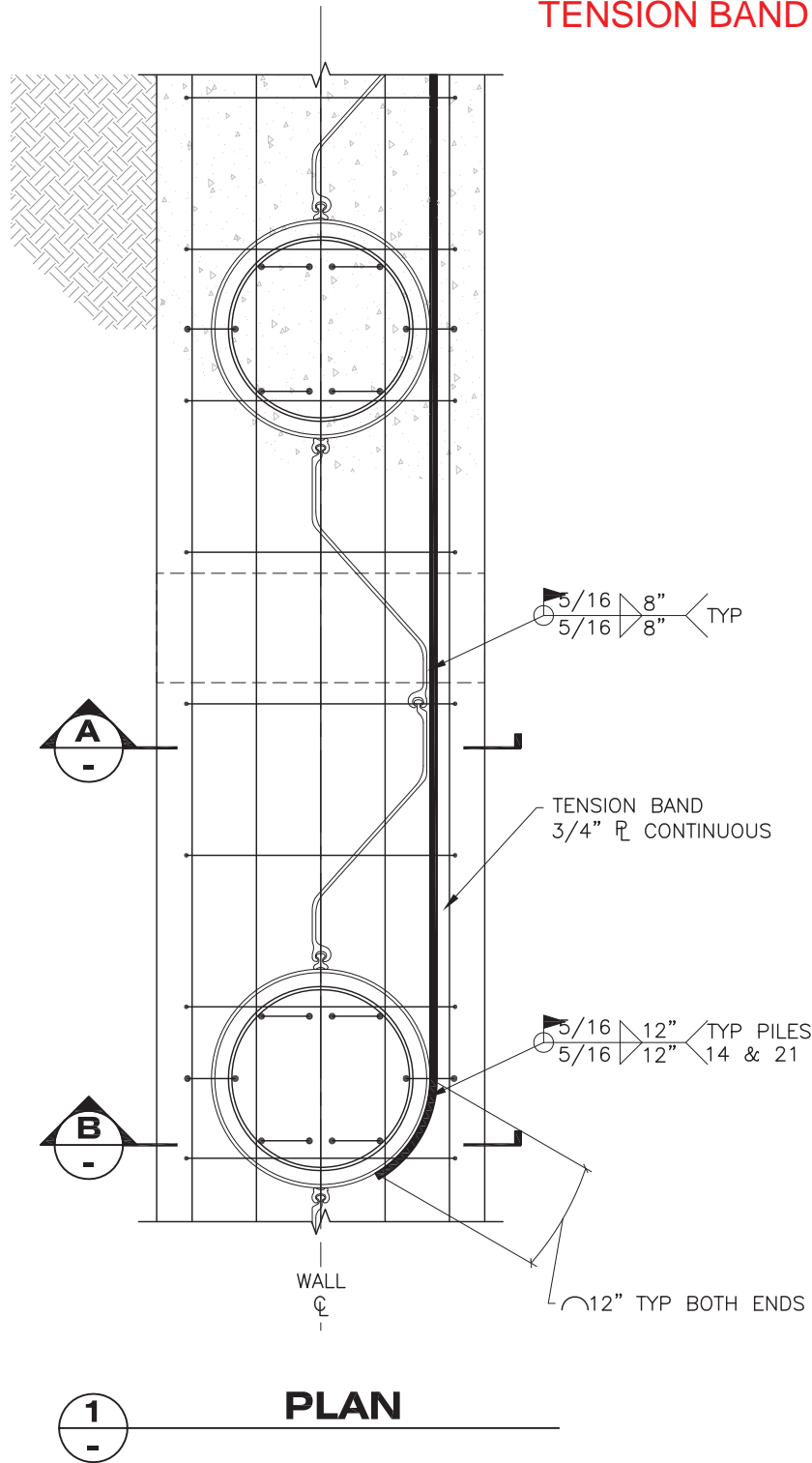
- EXCAVATE NO MORE THAN 9.0 FEET IN FRONT OF WALL PRIOR TO INSTALLING AND TENSIONING GROUND ANCHORS.
- NO CONSTRUCTION LOADING IS PERMITTED BEHIND WALL BEFORE INSTALLING GROUND ANCHORS AND PLACING ARMOR ROCK.
- FILL KING PILE WITH CONCRETE AFTER INSTALLATION OF GROUND ANCHOR, CONCRETE SHALL DEVELOP MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI PRIOR TO STRESSING AND TESTING ANCHOR.
- GROUND ANCHOR CORROSION PROTECTION SHALL BE CLASS 1 - ENCAPSULATED TENDON.
- PILING (PIPE AND Z-SHEET) SHALL BE HOT DIP GALVANIZED.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: T. DOGGETT		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A	
CHECKED BY: D. LOWELL DRAWN BY: STAFF		DOCK MODIFICATIONS TERMINAL BUILDING CUT WALL	
PATH: D:\HRIS\68433\PLANSET\M\PLANSET A\39-40 - TERMINAL BUILDING WALL.DWG TAB: 39		Monday, January 27, 2014 2:52:29 PM DOGGETT, TIMOTHY H (DOT)	
REVISIONS		PROJECT DESIGNATION	YEAR
NO	DATE	DESCRIPTION	SHEET NO.
			TOTAL SHEETS
		68433 / 0955014	2014 39 57

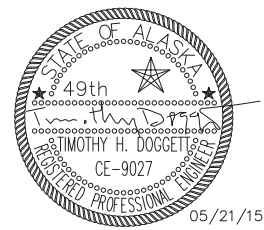
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

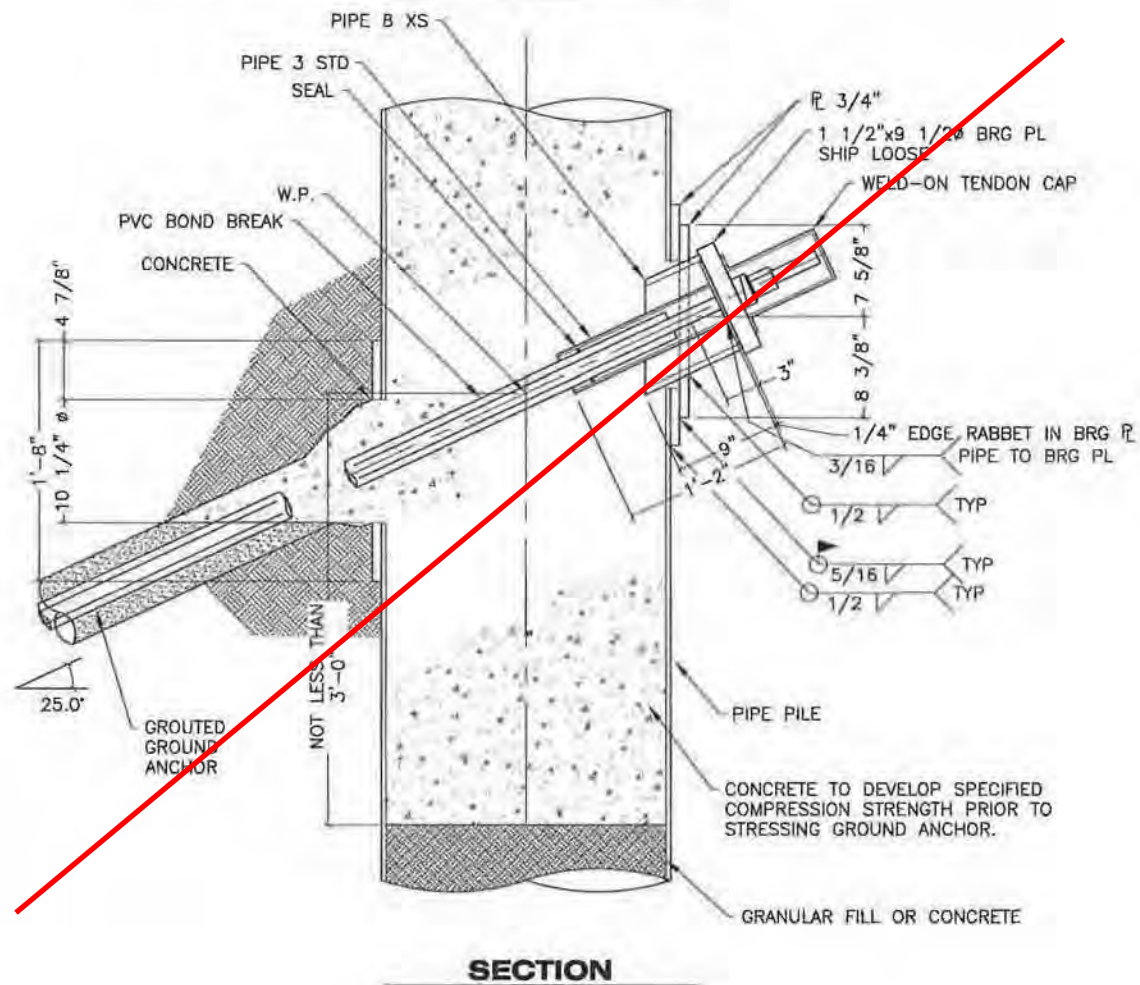
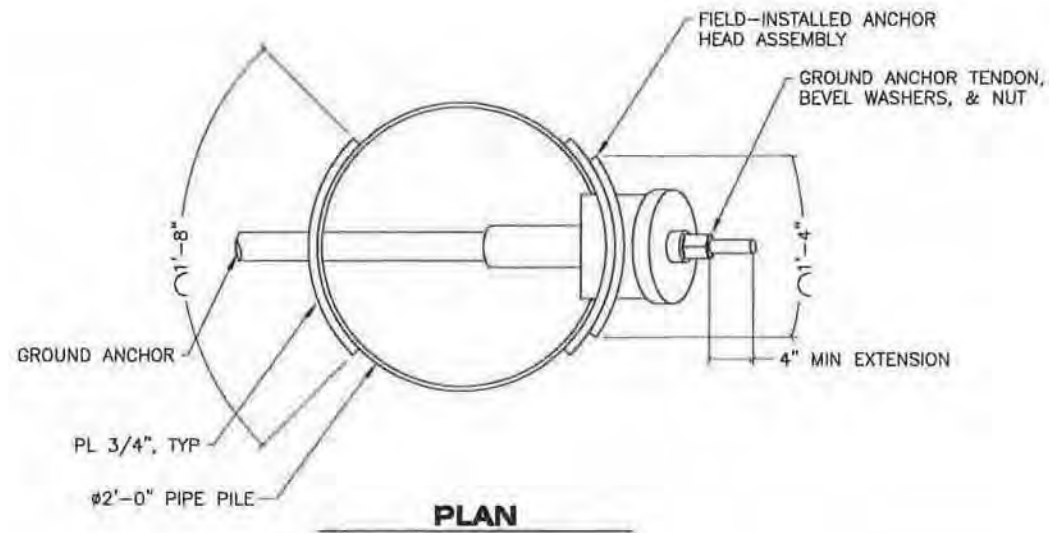
TENSION BAND DETAILS, SEE SHEET 39 FOR LOCATION



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

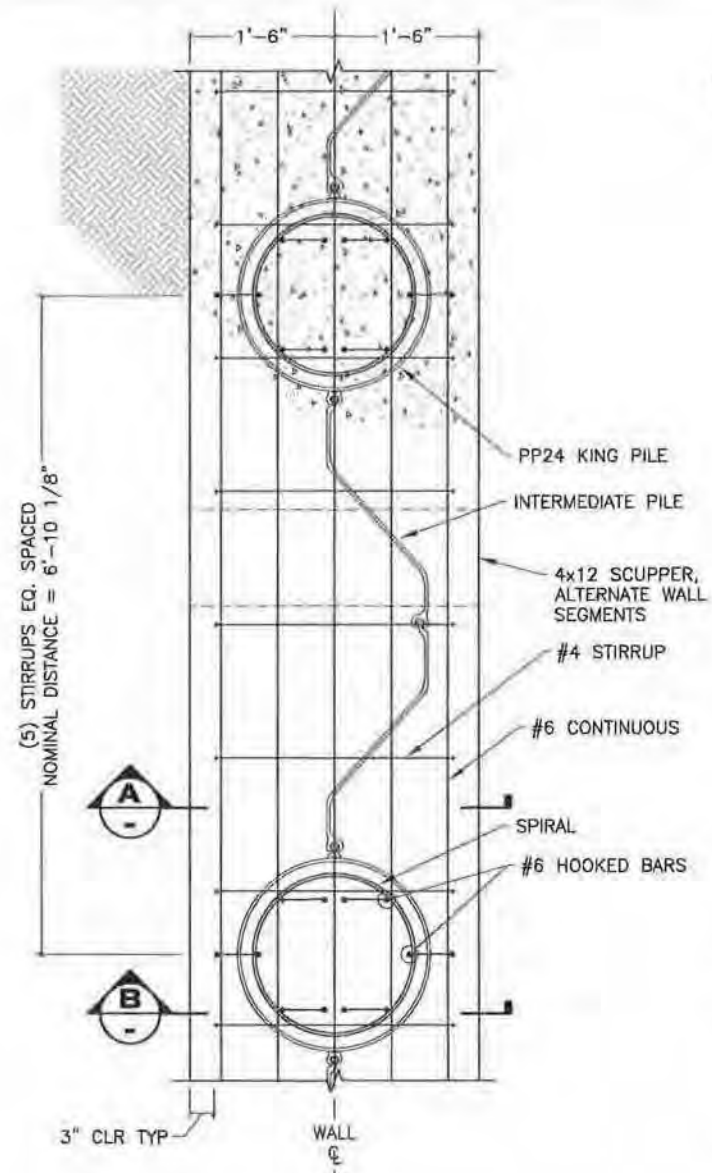
PE *Kullb* Date 12/13/16



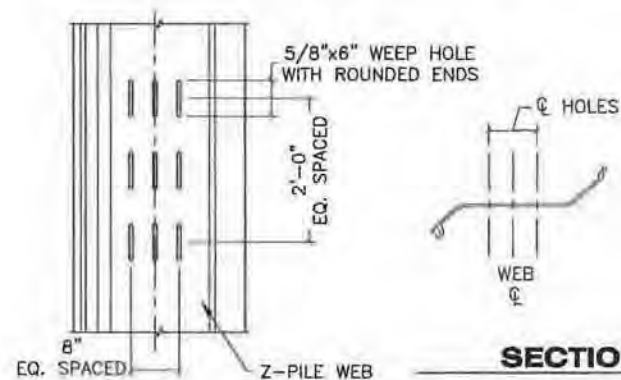


**2**  
**40** **DETAIL**  
**GROUND ANCHOR**

SEE PERMANENT TIEBACK DETAILS, NEXT SHEET, FOR APPROVED DESIGN

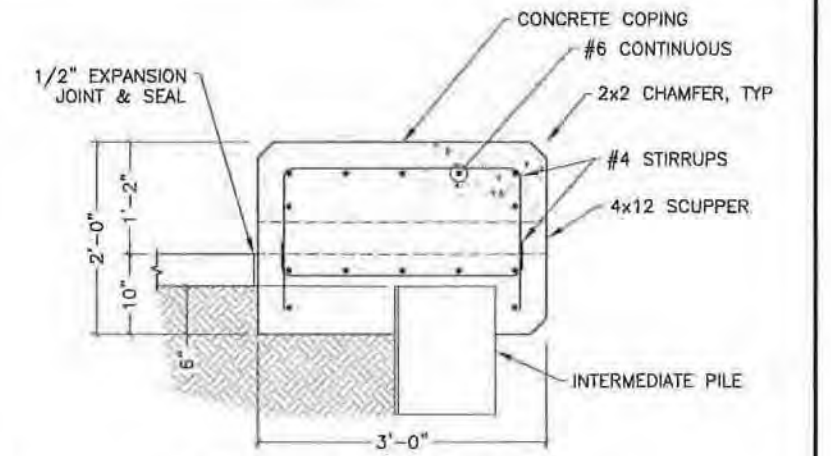


**1**  
**40** **PLAN**  
**CONCRETE COPING**

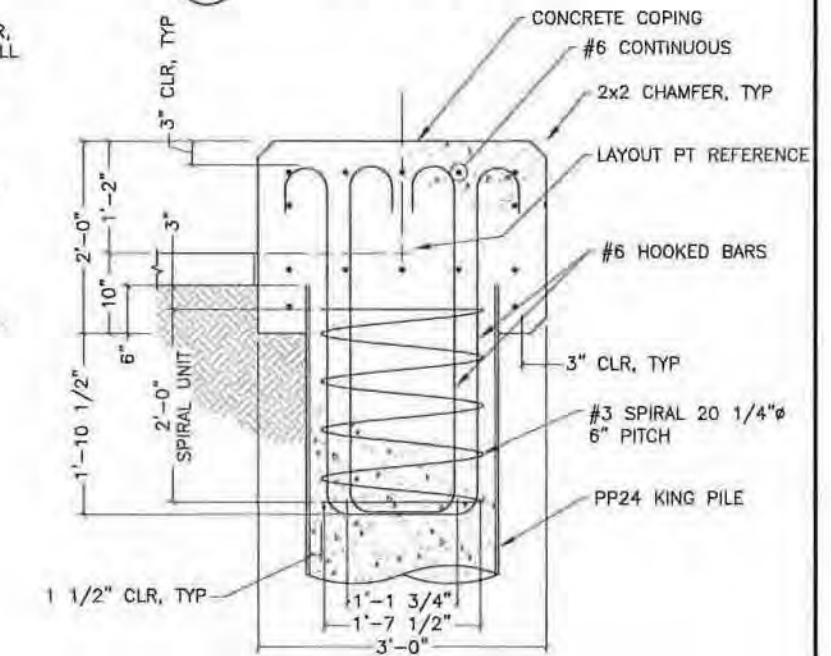


**ELEVATION**

**3**  
**40** **DETAIL**  
**WEEP HOLES**



**A**  
**SECTION**



**B**  
**SECTION**

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE: FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

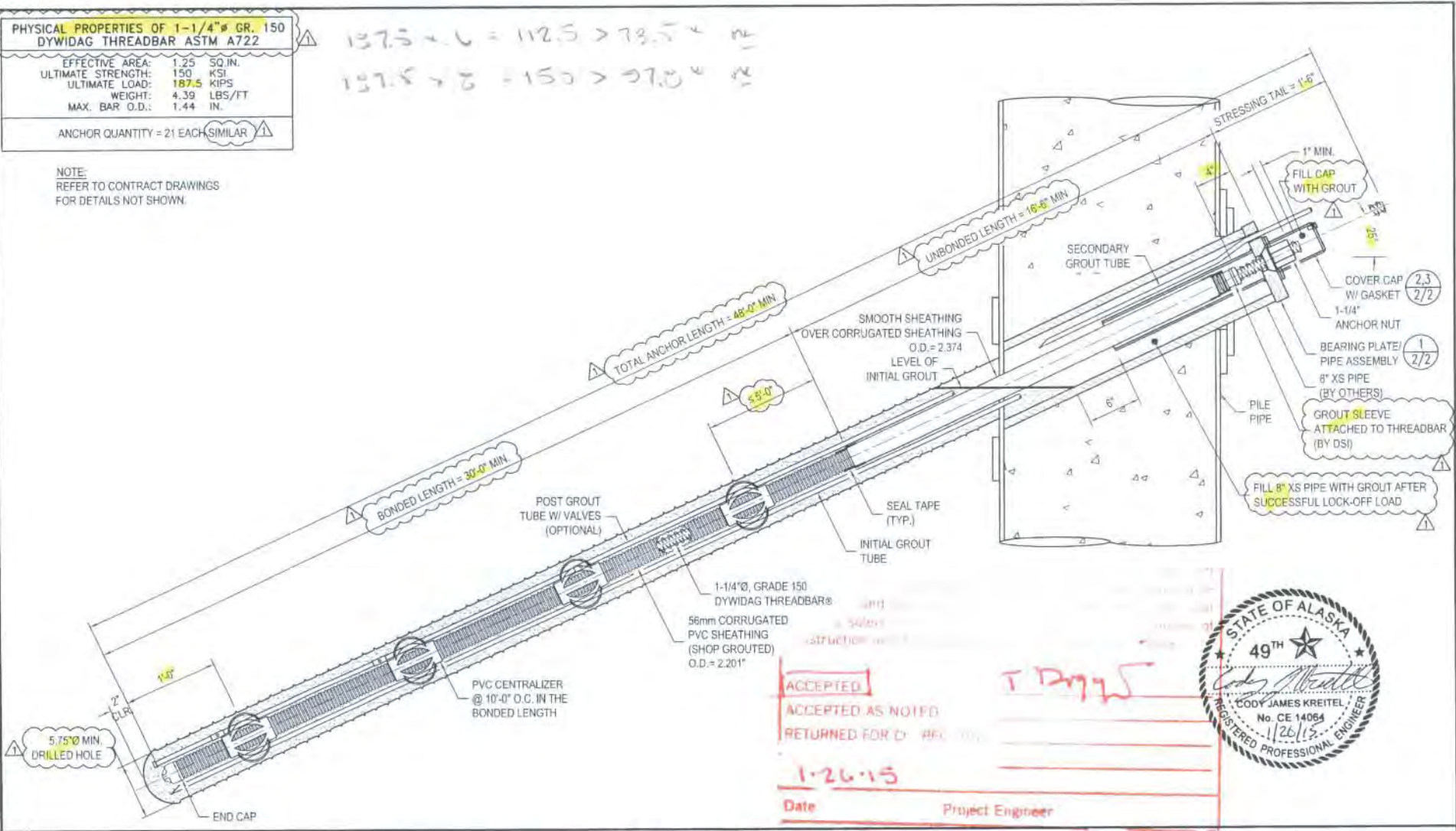
DESIGNED BY: T. DOGGETT  CHECKED BY: D. LOWELL DRAWN BY: STAFF		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET A</b> <b>DOCK MODIFICATIONS          TERMINAL BUILDING          CUT WALL</b>			
PATH: O:\HMS\68433\PLANSET\WP\PLANSET A\39-40 - TERMINAL BUILDING WALL.DWG TAB: 40 Thursday, January 23, 2014 2:08:41 PM DOGGETT, TIMOTHY H (001)		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2014</b>	SHEET NO. <b>40</b>	TOTAL SHEETS <b>57</b>
REVISIONS NO. DATE DESCRIPTION					

HNS 68433  
TERMINAL CUT WALL

PHYSICAL PROPERTIES OF 1-1/4" GR. 150 DYWIDAG THREADBAR ASTM A722	
EFFECTIVE AREA:	1.25 SQ. IN.
ULTIMATE STRENGTH:	150 KSI.
ULTIMATE LOAD:	187.5 KIPS
WEIGHT:	4.39 LBS./FT
MAX. BAR O.D.:	1.44 IN.
ANCHOR QUANTITY = 21 EACH (SIMILAR)	

$137.5 \times 6 = 112.5 > 78.5 \times 12$   
 $137.5 \times 8 = 1100 > 97.0 \times 12$

NOTE:  
REFER TO CONTRACT DRAWINGS  
FOR DETAILS NOT SHOWN.



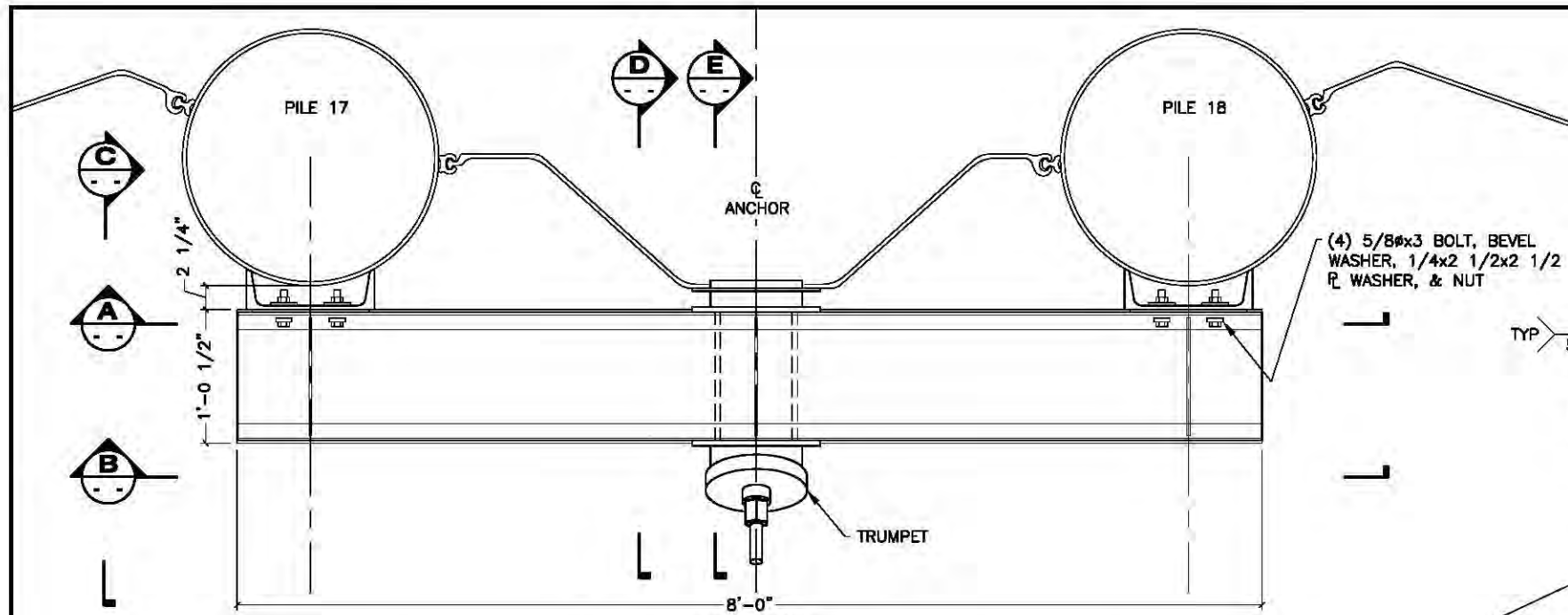
ACCEPTED  
ACCEPTED AS NOTED  
RETURNED FOR CORRECTIONS  
1-26-15  
Date \_\_\_\_\_ Project Engineer \_\_\_\_\_



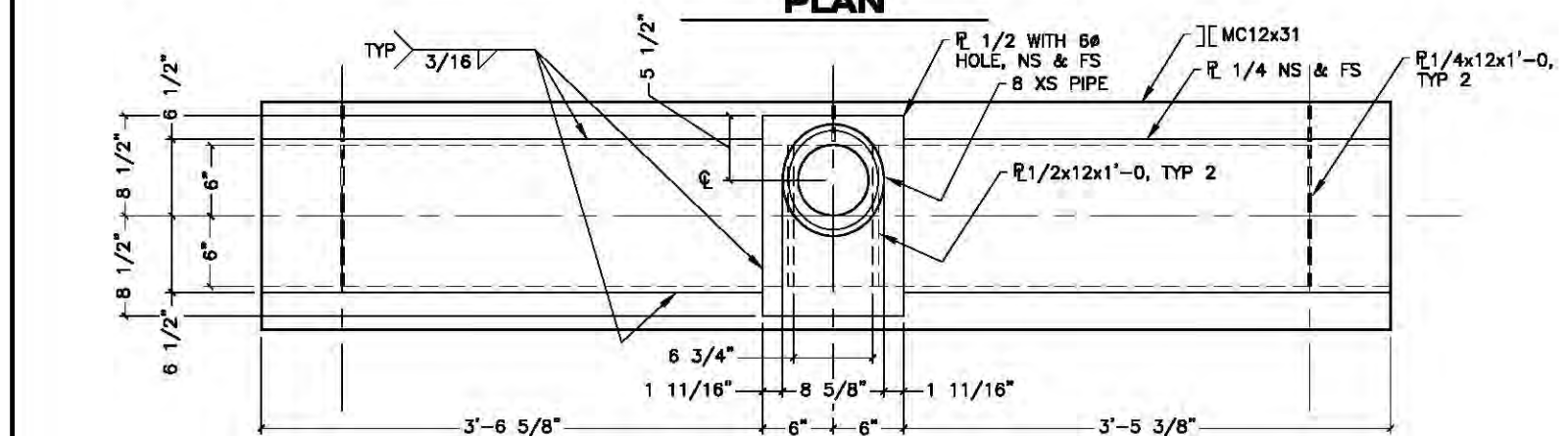
1 TYPICAL LONGITUDINAL SECTION

COPYRIGHT © 2015 BY DSI USA INC.		DSI USA INC. DOES NOT ASSUME ANY LIABILITY FOR THE DESIGN OF THE STRUCTURE. THIS SHOP DRAWING IS INTENDED TO PROVIDE ANCHOR DETAILS ONLY.	
PROJECT: HAINES FERRY TERMINAL IMPROVEMENTS			
LOCATION: HAINES, ALASKA			
CONTRACTOR: TESTER DRILLING SERVICES, INC.			
DYWIDAG Systems International, USA, Inc.			
JOB NO. J100203		DWG NO. 1 of 2	
REV.	DATE	ISSUE DESCRIPTION	SCALE
01.22.15		REVISIONS AS SHOWN	09.24.14 N.T.S.
		L.D.B. NAME	DRAWN BY
		L.B. CHG.	CHECKED
			A.CHEN

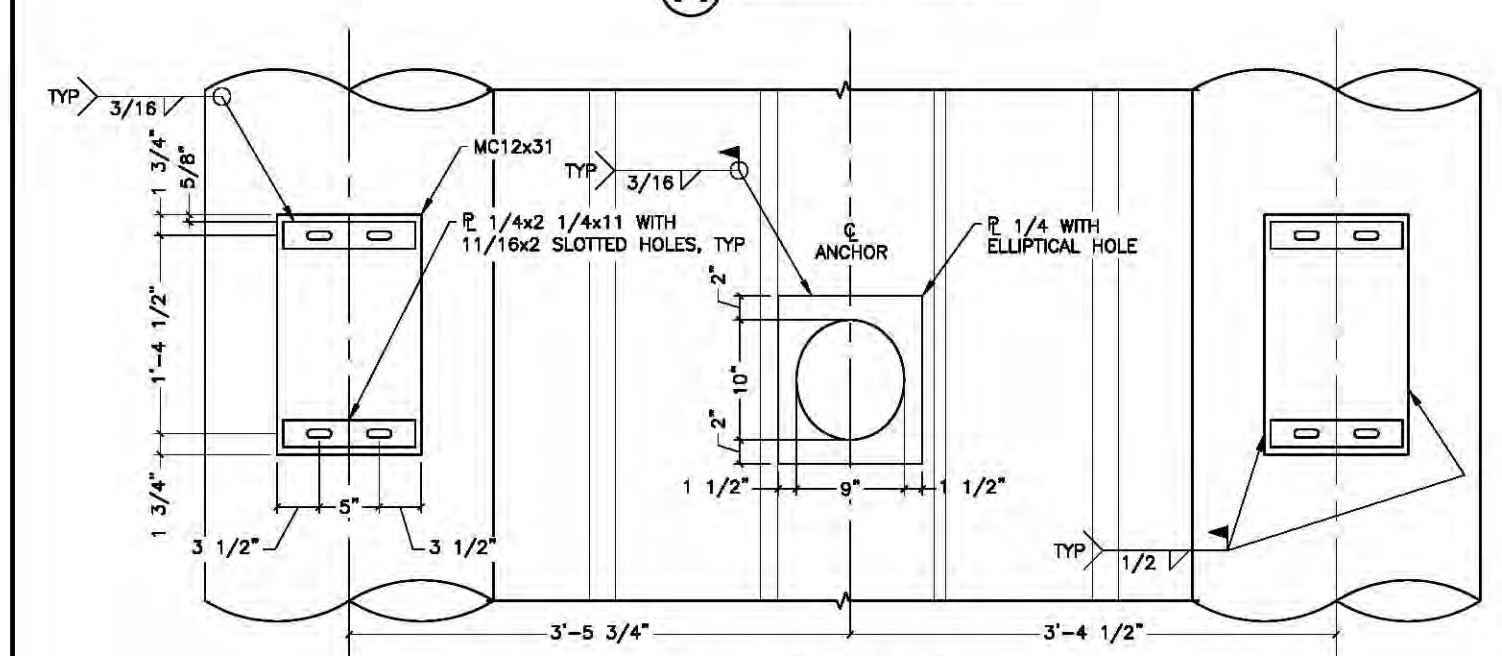
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *Kull* Date 12/13/16



**PLAN**

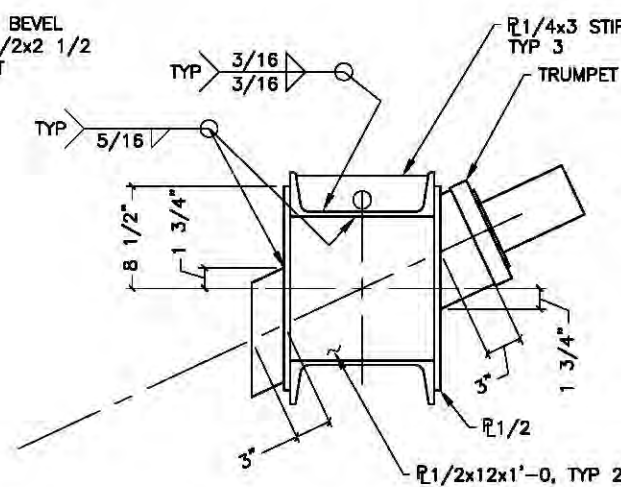


**B ELEVATION**

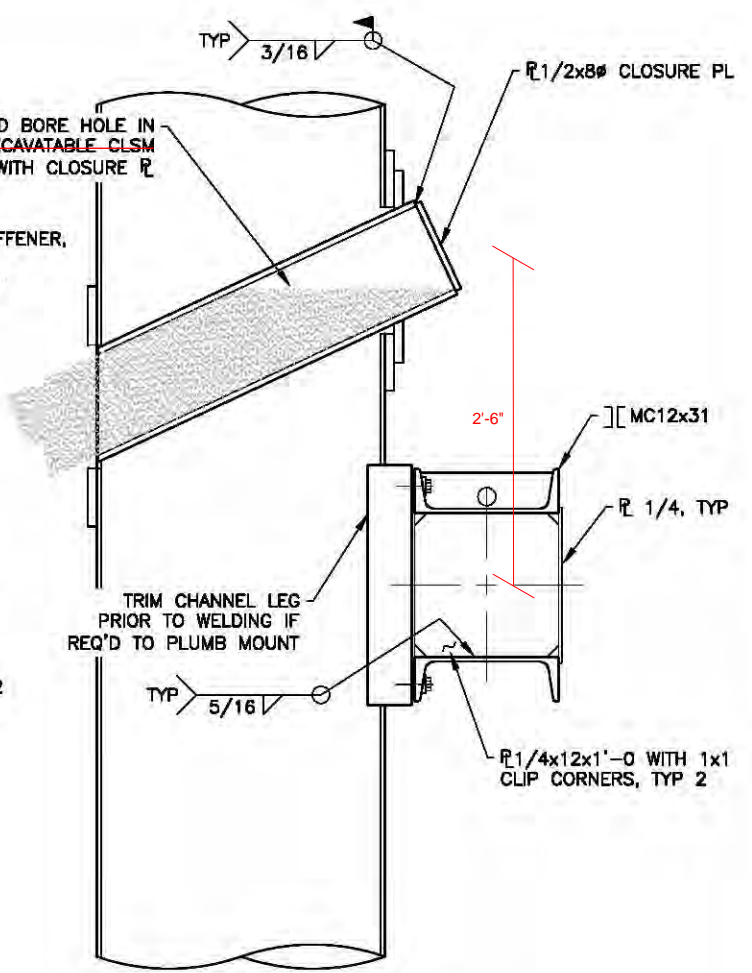


**A ELEVATION**

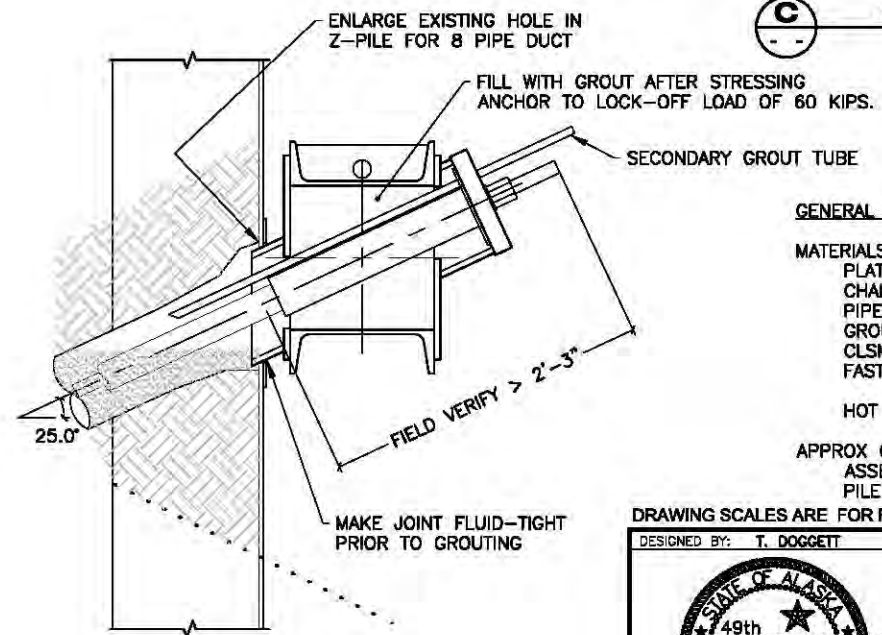
(4) 5/8x3 BOLT, BEVEL WASHER, 1/4x2 1/2x2 1/2 R WASHER, & NUT



**D SECTION**



**C SECTION**



**E SECTION**

GENERAL NOTES: REFER TO PROJECT SPECS

MATERIALS —  
 PLATES ASTM A36  
 CHANNELS ASTM A572 GR 50  
 PIPE ASTM A53 GR B  
 GROUT SECTION 208  
 CLSM SECTION 210  
 FASTENERS ASTM A325, A563, F436

HOT DIP GALVANIZED AFTER FABRICATION

APPROX COMPONENT WEIGHTS —  
 ASSEMBLED WALE 835 LBS.  
 PILE MOUNT 60 LBS. EA

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: T. DOGGETT		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION				
		<b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET A          DOCK MODIFICATIONS          TERMINAL BUILDING          CUT WALL          WALE 17 - 18</b>				
CHECKED BY: D. LOWELL DRAWN BY: STAFF						
PATH: Q:\MINS\68433\MF\CONSTRUCTION\REVISED PLANSET DWGS\RFP#8 WALE 17-18\WALE 17-18.DWG TAB: 40A		PROJECT DESIGNATION <b>68433 / 0955014</b>		YEAR <b>2014</b>	SHEET NO. <b>40A</b>	TOTAL SHEETS <b>57</b>
Friday, July 10, 2015 11:14:28 AM DOGGETT, TIMOTHY H. (DOT)						

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

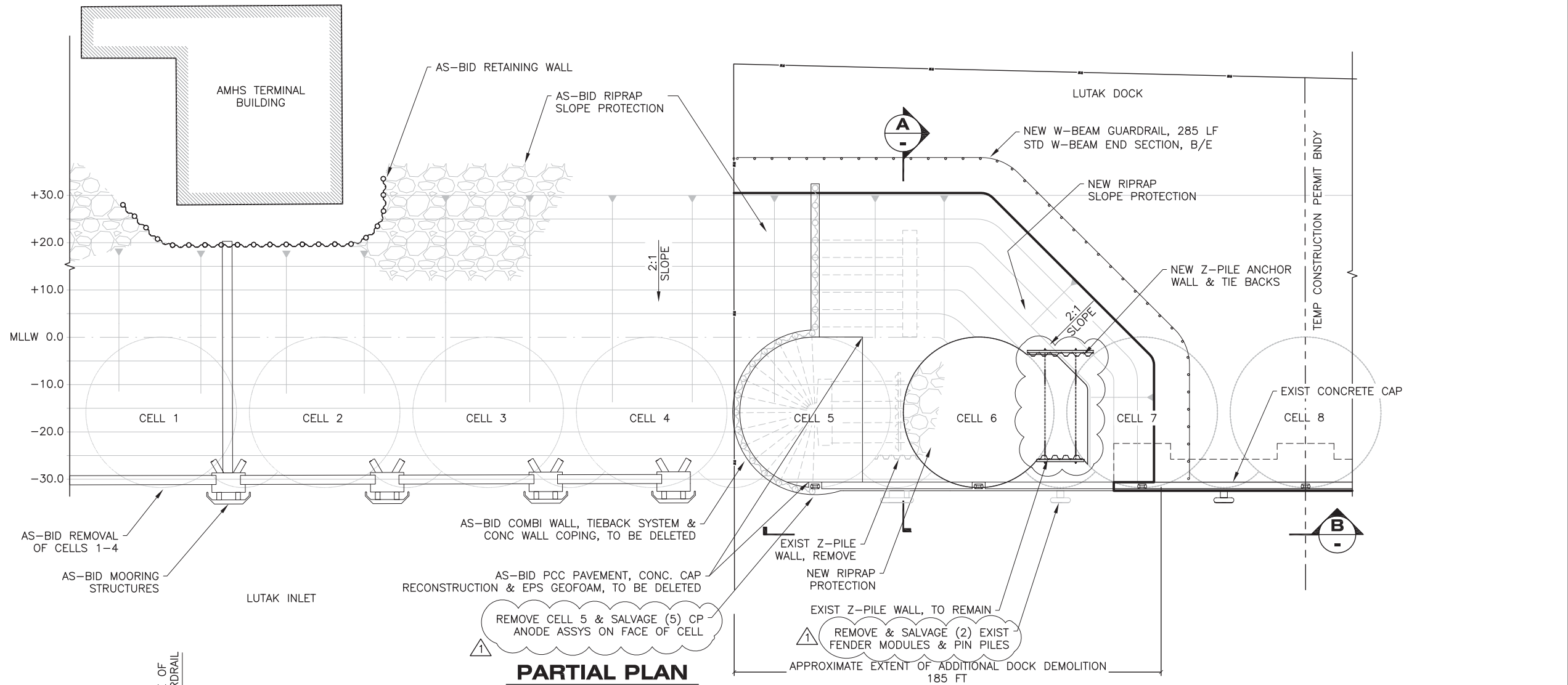
RFP #8



PATH:Q:\HNS\68433\MF\DESIGN\THD\CELL 5  
REMOVAL\RFP DWG\RFP\_02\_R1.DWG  
DOGGETT, TIMOTHY H (DOT)

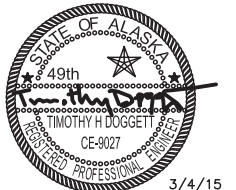
TAB:1 Wednesday, March 04, 2015  
9:30:28 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
1	3/3/15	SALVAGE ANODES & FENDER



**PLAN LEGEND**

DESIGNED BY: T. DOGGETT



CHECKED BY: D. LOWELL

DRAWN BY: STAFF

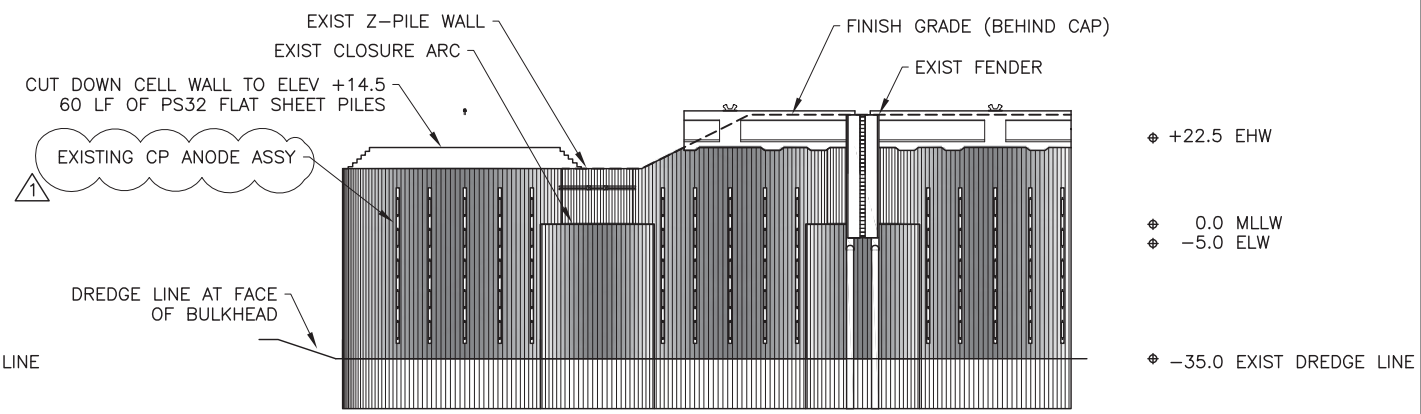
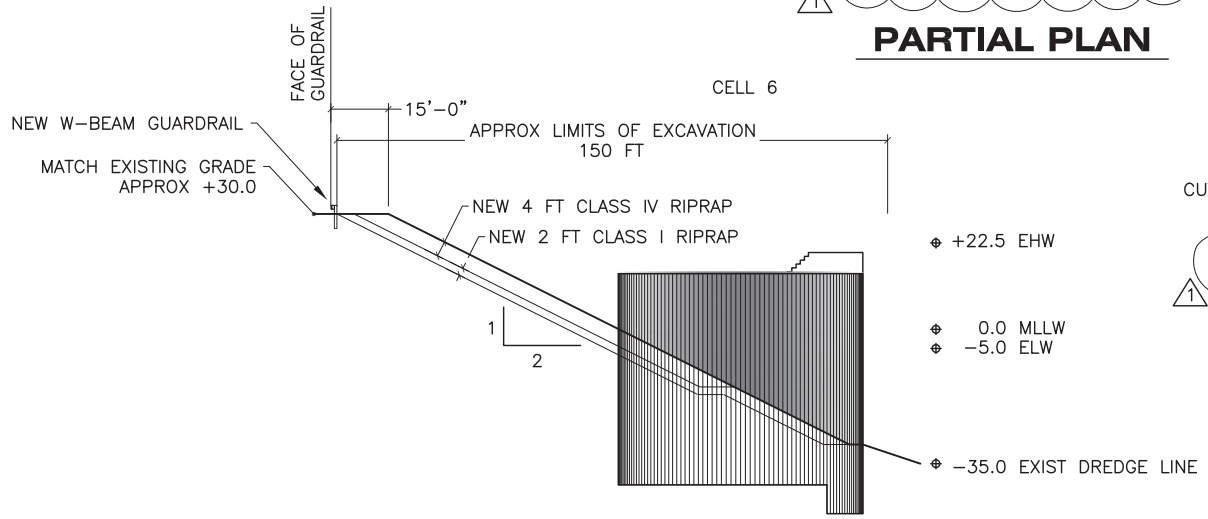
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHCOST REGION

**HAINES FERRY TERMINAL  
IMPROVEMENTS**

**RFP #02  
LUTAK DOCK  
MODIFICATIONS**

PROJECT DESIGNATION  
**68433 / 0955014**

STATE	YEAR
<b>ALASKA</b>	<b>2015</b>
SHEET NUMBER	TOTAL SHEETS
<b>1</b>	<b>2</b>



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

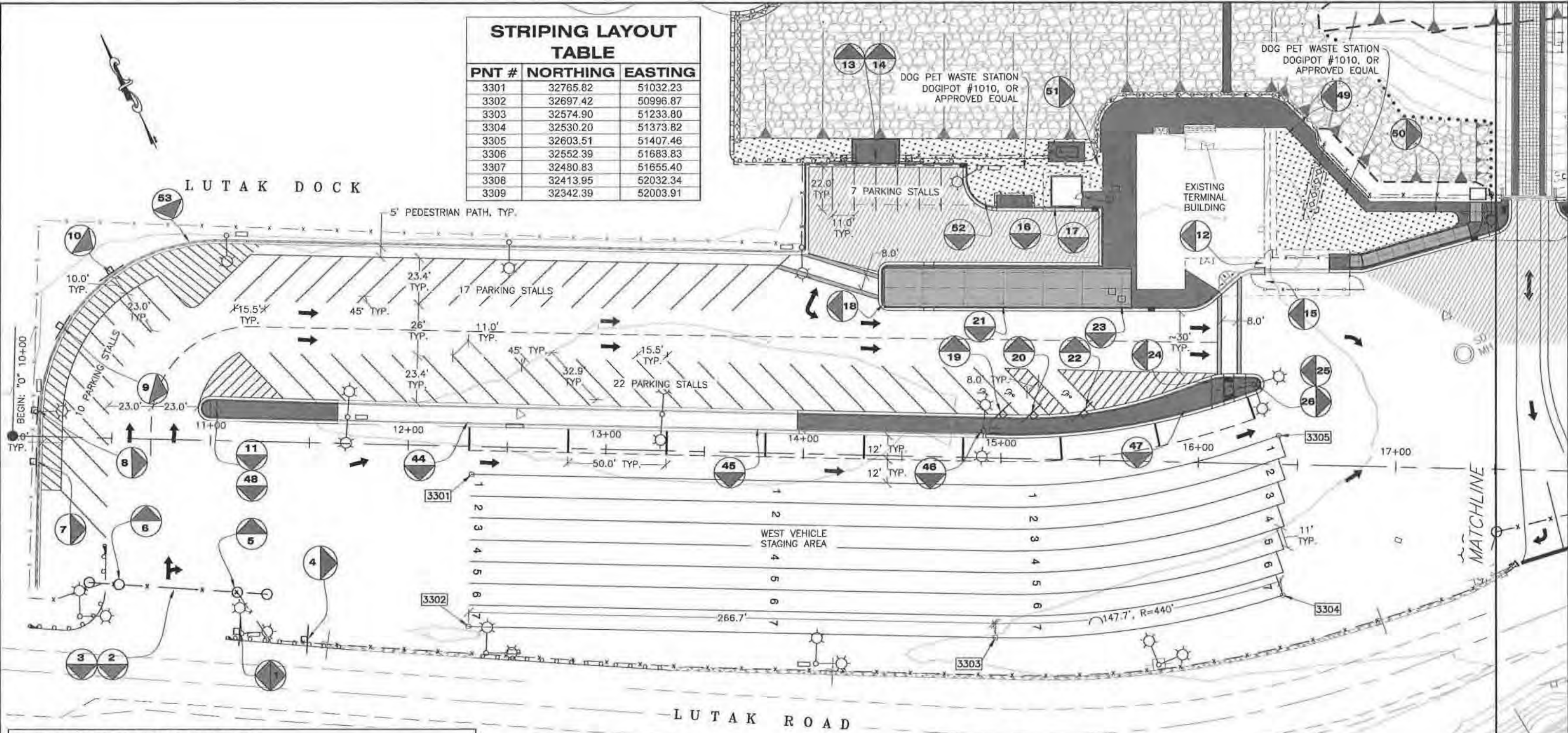
- NOTE:
- REFER TO REID-MIDDLETON WORKING DRAWINGS FOR DETAILS OF EXISTING CP ANODES: LUTAK DOCK REHABILITATION PROJECT, SHEETS CP1 & CP2.
  - CHANGES IN RIPRAP QUANTITIES WILL BE ADDED WITH OTHER PROJECT CHANGES AND ADDRESSED IN A SUBSEQUENT CHANGE ORDER.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.



### STRIPING LAYOUT TABLE

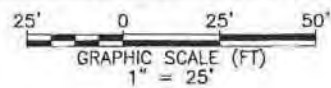
PNT #	NORTHING	EASTING
3301	32765.82	51032.23
3302	32697.42	50996.87
3303	32574.90	51233.80
3304	32530.20	51373.82
3305	32603.51	51407.46
3306	32552.39	51683.83
3307	32480.83	51655.40
3308	32413.95	52032.34
3309	32342.39	52003.91



**GENERAL STRIPING & SIGNING NOTES:**

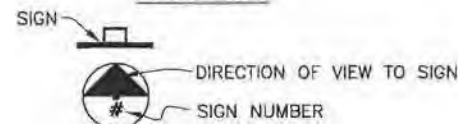
1. THE CONTRACTOR SHALL COMPLETE ALL PAVING, SURFACE TREATMENT & FOG SEAL WORK PRIOR TO FINAL STRIPING LAYOUT. CONTACT THE DEPARTMENT FOR FIELD STRIPING REVIEW AT LEAST 7 CALENDAR DAYS PRIOR TO PAINTING.
2. PAINTED TRAFFIC MARKING WIDTHS ARE AS FOLLOWS:  
 4-INCH BLUE WHEELCHAIR ACCESSIBLE SYMBOL & PAINTED ISLANDS  
 4-INCH WHITE WHEELCHAIR ACCESSIBLE PARKING  
 4-INCH YELLOW DIAGONAL PARKING & PAINTED ISLANDS  
 1-FOOT WHITE R/V STAGING AREA STOP BAR  
 2-FOOT WHITE STOP BAR & CROSSWALK BARS  
  
 PAINT CURB BLUE AT WHEELCHAIR ACCESSIBLE PARKING SPACES.
3. DO NOT PAINT O-LINE ALIGNMENT (PROVIDED FOR LAYOUT PURPOSES ONLY).
4. REMOVE ALL EXISTING SIGNS, UNLESS OTHERWISE NOTED.
5. STANDARD LOCATION OF SIGN POSTS SHALL BE BEHIND BACK OF CURB, UNLESS DIRECTED OTHERWISE IN PLANS OR BY ENGINEER. SEE SHEET 53 FOR SPECIAL SIGN DETAILS.

**WEST STAGING & PARKING AREAS**



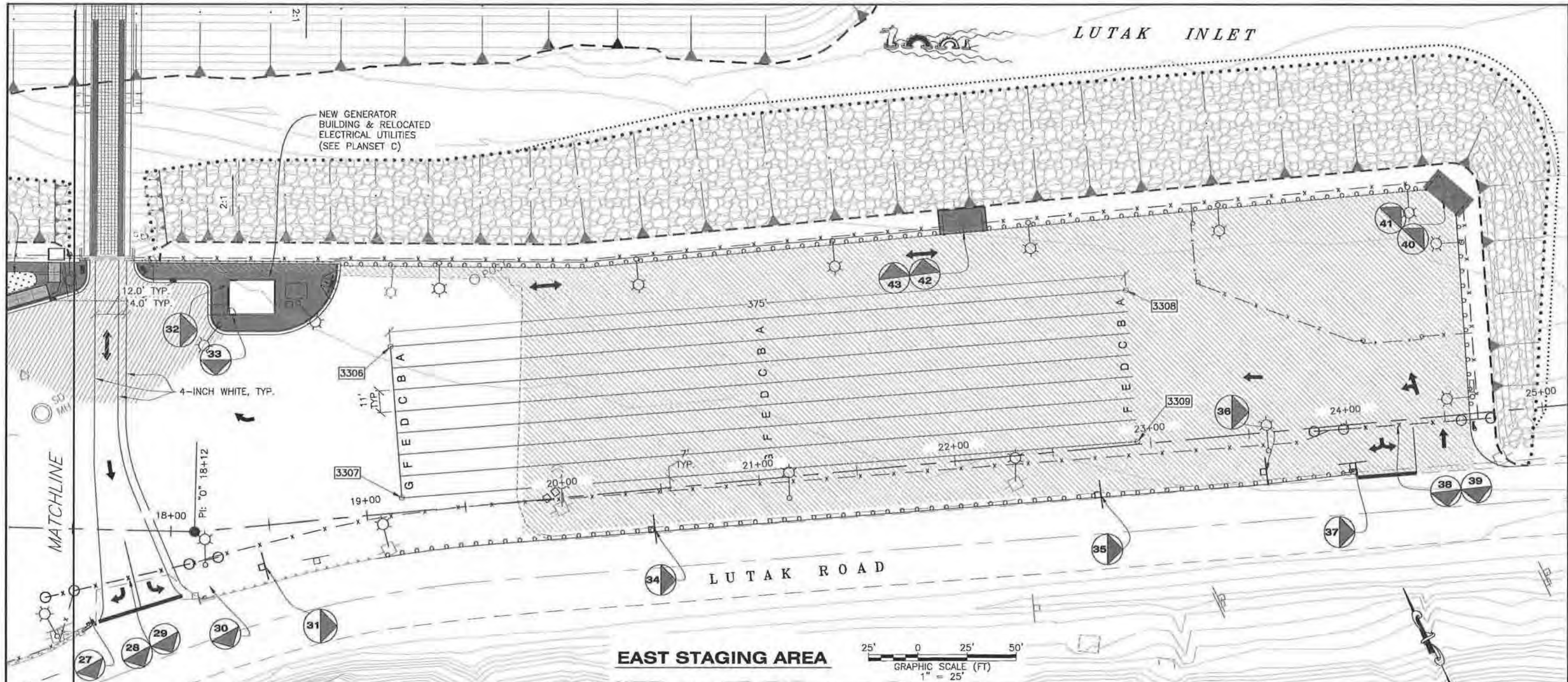
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

**LEGEND**



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

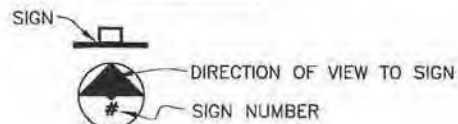
DESIGNED BY: J. OSBURN  1.24.14	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION  <b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>  <b>NEW STRIPING LAYOUT WEST STAGING &amp; PARKING AREAS</b>												
CHECKED BY: K. MILLER DRAWN BY: STAFF PATH: Q:\H5\68433\PLANSET\W\PLANSET A\51-54 - SIGNING_STRIPING.DWG TAB: 51 Tuesday, January 21, 2014 12:00:29 PM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> <tr> <td colspan="3" style="text-align: center;">68433 / 0955014</td> <td style="text-align: center;">2014</td> <td style="text-align: center;">51</td> <td style="text-align: center;">57</td> </tr> </table>	NO.	DATE	DESCRIPTION	YEAR	SHEET NO.	TOTAL SHEETS	68433 / 0955014			2014	51	57
NO.	DATE	DESCRIPTION	YEAR	SHEET NO.	TOTAL SHEETS								
68433 / 0955014			2014	51	57								



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

**LEGEND**

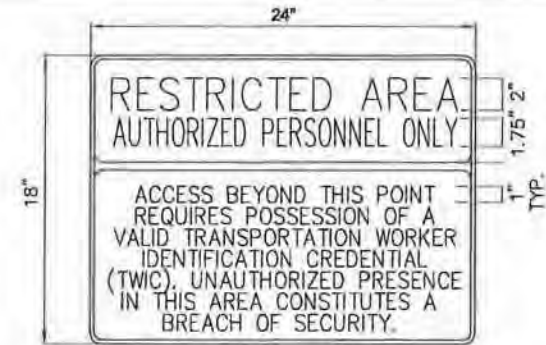


EXISTING SIGN SUMMARY					
SIGN #	STATION	OFFSET	ASDS CODE	LEGEND	REMARKS
A	10+74.0	32.3 LT	R1-2	YIELD	SALVAGE & REUSE.
B	10+44.8	11.4 RT	SPECIAL	NOTICE:SUBJECT TO SEARCH	SALVAGE & REUSE.
C	10+49.8	12.9 RT	SPECIAL	TO TERMINAL/TO SHIP STAGING	
D	11+60.0	102.0 RT	R7P-101	NO PARKING	DO NOT REMOVE.
E	12+65.6	104.5 RT	R1-1	STOP	
F	13+17.9	107.9 RT	I-100 & I-8	FERRY	MOUNTED SAME POST. SALVAGE & REUSE.
G	14+15.6	109.9 RT	R7P-101RL; R2-1	NO PARKING & SPEED LIMIT 35	MOUNTED SAME POST. DO NOT REMOVE.
H	16+93.2	78.5 RT	R8-3	NO PARKING	DO NOT REMOVE.
I	17+55.7	52.5 RT	R1-1; R7P-101RL	STOP & NO PARKING	MOUNTED SAME POST. DO NOT REMOVE.
J	18+12.0	32.6 RT	R6-1 (L&R); R7P-101RL	ONE WAY (L&R) & NO PARKING	MOUNTED SAME POST. DO NOT REMOVE.
K	18+72.4	20.3 RT	R7P-101RL	NO PARKING	DO NOT REMOVE.
L	19+37.3	16.0 RT	R1-1; R5-1	STOP & DO NOT ENTER	MOUNTED SAME POST. SALVAGE & REUSE.
M	20+03.4	16.0 RT	R5-1	DO NOT ENTER	SALVAGE & REUSE.
N	12+15.9	15.4 RT	SPECIAL	MARSEC LEVEL	
O	14+46.7	26.6 LT	R7P-106RL	NO PARKING LOADING ZONE	SALVAGE & REUSE.
P	15+47.3	69.3 LT	R7P-106RL	NO PARKING LOADING ZONE	SALVAGE & REUSE.
Q	14+77.9	121.2 LT	R8-3	NO PARKING	
R	15+18.2	128.1 LT	R5-1	DO NOT ENTER	SALVAGE & REUSE.
S	17+57.2	138.4 LT	SPECIAL	RESTRICTED AREA	MOUNTED ON BRIDGE. DO NOT REMOVE.
T	13+82.1	19.2 LT	R7-8RL	RESERVED PARKING-HANDICAPPED	SALVAGE & REUSE.
U	13+67.0	19.2 LT	R7-8RL	RESERVED PARKING-HANDICAPPED	SALVAGE & REUSE.

**NOTE:**  
1. SALVAGE "WELCOME" SIGN FROM EXISTING GENERATOR BUILDING & REINSTALL AT DIRECTION OF ENGINEER.

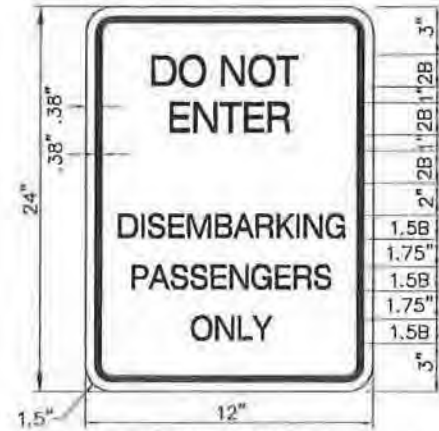
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET A</b>	
<b>NEW STRIPING LAYOUT EAST STAGING AREA</b>		
CHECKED BY: K. MILLER	YEAR: 2014	TOTAL SHEETS: 57
DRAWN BY: STAFF	SHEET NO.: 52	
PATH: D:\HMS\68433\PLANSET\MP\PLANSET A\51-54 - SIGNING_STRIPING.DWG		
TAB: 52 Tuesday, January 21, 2014 12:00:37 PM		
PROJECT DESIGNATION: 68433 / 0955014		YEAR: 2014
SHEET NO.: 52		TOTAL SHEETS: 57



.080 ALUMINUM PANEL  
(WHITE LETTERING ON A RED BACKGROUND)

**S1** SPECIAL SMALL RESTRICTED AREA SIGN DETAILS



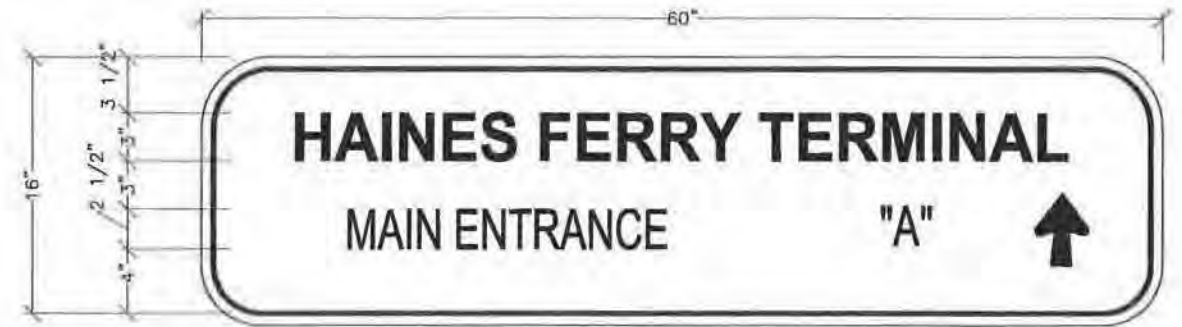
.080 ALUMINUM PANEL

**S2** SPECIAL SIGN DETAILS

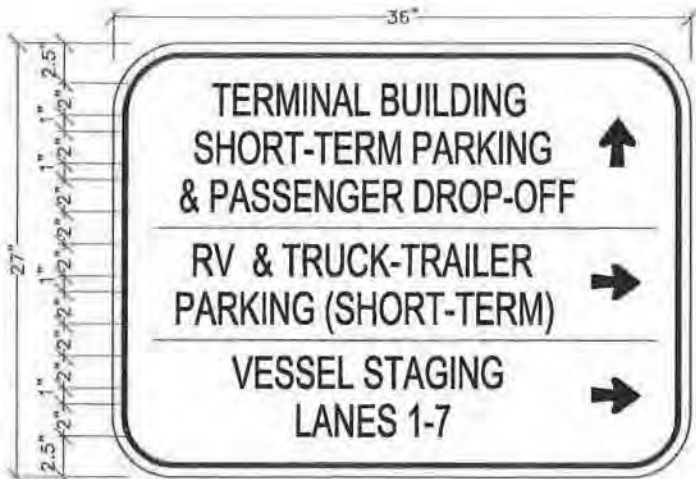


.080 ALUMINUM PANEL

**S4** SPECIAL SIGN DETAILS



**S7-S9** SPECIAL SIGN DETAILS  
(SEE NOTE 3)



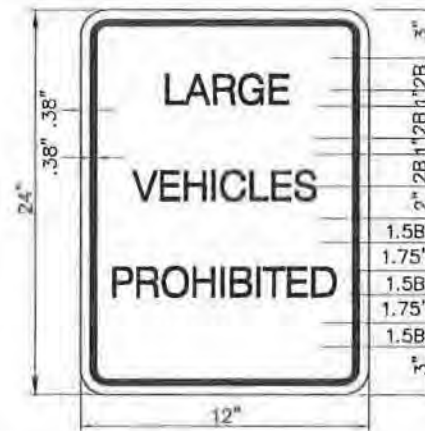
.080 ALUMINUM PANEL

**S3** SPECIAL SIGN DETAILS



.080 ALUMINUM PANEL

**S10** SPECIAL SIGN DETAILS



.080 ALUMINUM PANEL

**S11** SPECIAL SIGN DETAILS  
(WHITE LETTERING ON A RED BACKGROUND)

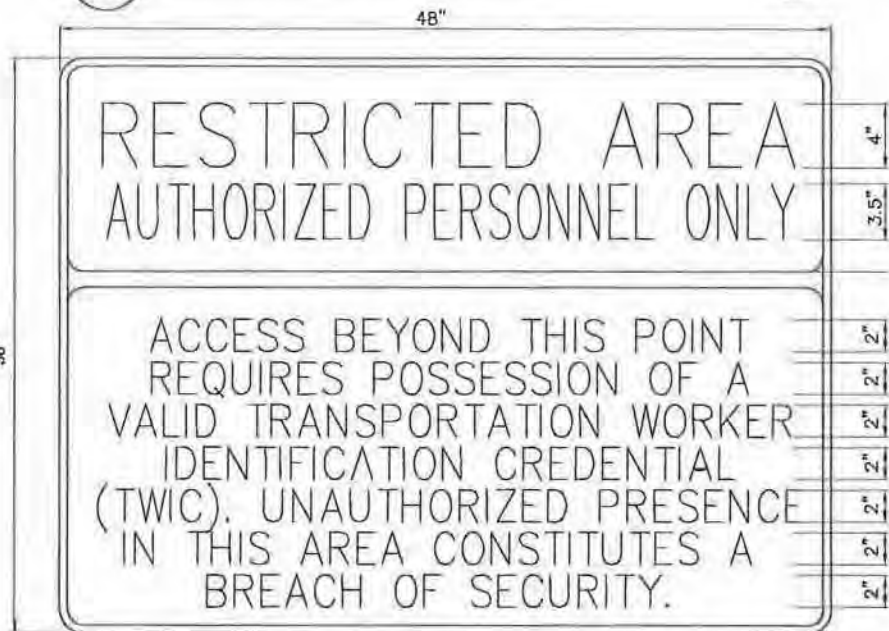


.080 ALUMINUM PANEL

**S12** SPECIAL SIGN DETAILS  
(WHITE LETTERING ON A RED BACKGROUND)

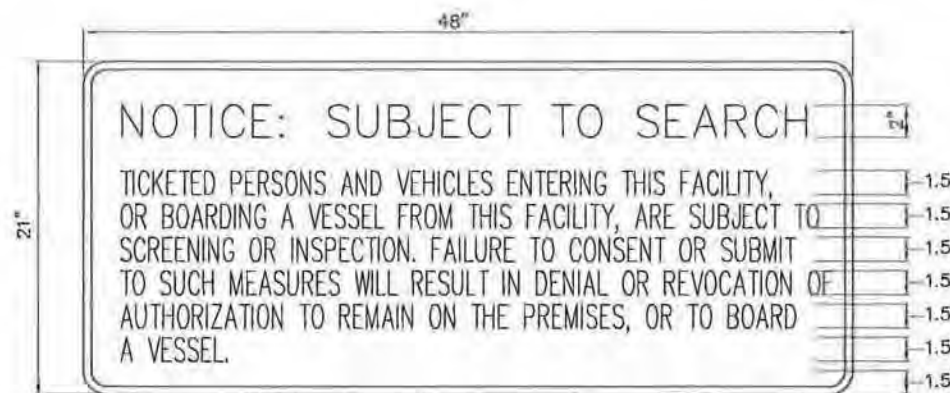


SPECIAL MARKING DETAIL  
TYPICAL LANE NUMBERING



(WHITE LETTERING ON A RED BACKGROUND)

**S5** SPECIAL LARGE RESTRICTED AREA SIGN DETAILS



(WHITE LETTERING ON A RED BACKGROUND)

**S6** SPECIAL SUBJECT TO SEARCH SIGN DETAILS

**NOTE:**

- FABRICATE ALL SPECIAL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS OTHERWISE NOTED.
- ALL SPECIAL SIGNS SHALL BE COLORED AS FOLLOWS (UNLESS OTHERWISE NOTED):  
 BORDER: YELLOW  
 LETTERING: WHITE  
 BACKGROUND: MARINE BLUE
- DETAILS FOR SPECIAL SIGNS 7 THRU 9 ARE AS FOLLOWS:  
 S7: 'A' = 1/4 MILE                      ARROW: UP  
 S8: 'A' = 1/8 MILE                      ARROW: UP  
 S9: 'A' IS BLANK                         ARROW: RIGHT

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>		
CHECKED BY: K. MILLER DRAWN BY: STAFF		<b>SPECIAL SIGNS</b>		
PATH: Q:\HMS\88433\PLANSET\M\PLANSET A\51-54 - SIGNING_STRIPING.DWG TAB: 53      Tuesday, January 21, 2014 12:00:48 PM		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2014</b>	SHEET NO. <b>53</b>
REVISIONS NO.    DATE    DESCRIPTION		TOTAL SHEETS <b>57</b>		

**NEW SIGN SUMMARY**

SIGN #	STATION	OFFSET	ASDS CODE(S)	DESCRIPTION	SIZE INCHES	AREA (S.F.)	# OF POSTS	REMARKS	
1	11+17.0	96.2 RT	R6-1L & R6-1R	ONE WAY	36 X 12	6.0	1	BOTH SIGNS SHARE SAME POST	
<del>2</del>	<del>10+71.1</del>	<del>74.4 RT</del>	-	<del>SPECIAL SIGN S5</del>	<del>48 X 36</del>	<del>12.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
<del>3</del>	<del>10+97.7</del>	<del>75.6 RT</del>	-	<del>SPECIAL SIGN S6</del>	<del>48 X 24</del>	-	-	<del>REUSE EXISTING SIGN 'B'. MOUNT TO FENCE GATE</del>	
4	11+51.3	99.4 RT	I-100 & I-8	SPECIAL SIGN S9; FERRY SYMBOL; 'FERRY	60 X 19	7.9	2	REUSE EXISTING SIGNS 'F'. MOUNT TO POST OF NEW SIGN.	
5	11+15.3	73.7 RT	R5-1A	WRONG WAY	36 X 24	6.0	1		
6	10+55.3	71.2 RT	R5-1A	WRONG WAY	36 X 24	6.0	1		
7	10+12.3	12.7 RT	-	SPECIAL SIGN S4	12 X 24	2.0	1		
8	10+12.3	13.2 LT	-	SPECIAL SIGN S4	12 X 24	2.0	1		
9	10+23.9	55.4 LT	-	SPECIAL SIGN S4	12 X 24	2.0	1		
10	10+47.9	83.4 LT	-	SPECIAL SIGN S4	12 X 24	2.0	1		
11	11+24.9	14.7 LT	-	SPECIAL SIGN S3	36 X 27	6.8	2	SIGN #48 MOUNTED TO ONE POST BELOW THIS SIGN.	
<del>12</del>	<del>16+30.9</del>	<del>102.0 LT</del>	-	<del>SPECIAL SIGN S2</del>	<del>12 X 24</del>	<del>2.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
<del>13</del>	<del>14+28.4</del>	<del>149.3 LT</del>	-	<del>SPECIAL SIGN S5</del>	<del>48 X 36</del>	<del>12.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
<del>14</del>	<del>14+38.7</del>	<del>149.4 LT</del>	-	<del>SPECIAL SIGN S6</del>	<del>48 X 24</del>	<del>8.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
<del>15</del>	<del>16+31.2</del>	<del>92.2 LT</del>	-	<del>SPECIAL SIGN S2</del>	<del>12 X 24</del>	<del>2.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
16	15+24.4	127.4 LT	-	SPECIAL SIGN S1	24 X 18	3.0	-	MOUNT ON STORAGE BLDG. ADJACENT TO GARAGE DOOR	
17	15+38.3	133.3 LT	-	SPECIAL SIGN S1	24 X 18	3.0	-	MOUNT ON STORAGE BUILDING DOOR	
18	14+39.0	76.8 LT	R7P-106RL	NO PARKING - LOADING ZONE	12 X 18	-	-	REUSE EXISTING SIGN 'O'. MOUNT TO CORNER POST OF WALKWAY #2	
19	14+68.7	23.2 LT	R7-8 & R7-8A	RESERVED PARKING & VAN ACCESSIBLE	12 X 18 & 18 X 9	-	1	REUSE EXISTING SIGN 'T'. SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
20	14+95.5	23.2 LT	R7-8 & R7-8A	RESERVED PARKING & VAN ACCESSIBLE	12 X 18 & 18 X 9	-	1	REUSE EXISTING SIGN 'U'. SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
21	14+99.3	77.6 LT	R7P-106RL	NO PARKING - LOADING ZONE	12 X 18	-	-	REUSE EXISTING SIGN 'P'. MOUNT TO CENTER POST OF WALKWAY #2	
22	15+20.9	24.6 LT	R7-8 & R7-8A	RESERVED PARKING & VAN ACCESSIBLE	12 X 18 & 18 X 9	2.6	1	SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
23	15+59.3	78.7 LT	R7P-106RL	NO PARKING - LOADING ZONE	12 X 18	1.5	-	MOUNT TO CORNER POST OF WALKWAY #2	
24	16+05.3	42.3 LT	R7P-106RL	NO PARKING - LOADING ZONE	12 X 18	1.5	1		
25	16+21.5	39.2 LT	R1-2	YIELD	36 X 36 X 36	-	-	REUSE EXISTING SIGN 'A'. MOUNT ON LIGHT POLE	
26	16+21.5	39.2 LT	R5-1	DO NOT ENTER	30 X 30	-	-	REUSE EXISTING SIGN 'L'. MOUNT ON LIGHT POLE	
27	17+58.4	43.3 RT	R5-1	DO NOT ENTER	30 X 30	-	-	REUSE EXISTING SIGN 'M'. MOUNT ON EXISTING SIGN POST	
<del>28</del>	<del>17+71.1</del>	<del>26.4 RT</del>	-	<del>SPECIAL SIGN S5</del>	<del>48 X 36</del>	<del>12.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
<del>29</del>	<del>17+89.9</del>	<del>21.6 RT</del>	-	<del>SPECIAL SIGN S6</del>	<del>48 X 24</del>	<del>8.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
30	18+12.0	32.6 RT	R5-1	DO NOT ENTER	30 X 30	-	-	REUSE EXISTING SIGN 'R'. MOUNT ON EXISTING SIGN POST	
31	18+46.0	20.7 RT	-	SPECIAL SIGN S8	60 X 19	7.9	2		
32	18+40.1	123.3 LT	-	SPECIAL SIGN S1	24 X 18	3.0	-	MOUNT ON GENERATOR BLDG. ADJACENT TO GARAGE DOOR	
33	18+41.2	107.7 LT	-	SPECIAL SIGN S1	24 X 18	3.0	-	MOUNT ON GENERATOR BUILDING DOOR	
34	20+45.0	20.0 RT	R7P-101RL	NO PARKING - ANY TIME	12 X 18	1.5	1		
35	22+72.4	23.6 RT	R7P-101RL	NO PARKING - ANY TIME	12 X 18	1.5	1		
36	23+57.1	19.7 RT	-	SPECIAL SIGN S7	60 X 19	7.9	2		
37	24+01.1	19.4 RT	R1-1	STOP	30 X 30	6.3	1	REUSE EXISTING SIGN 'L'.	
<del>38</del>	<del>24+14.2</del>	<del>2.2 RT</del>	-	<del>SPECIAL SIGN S6</del>	<del>48 X 36</del>	<del>12.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
<del>39</del>	<del>24+38.4</del>	<del>2.6 RT</del>	-	<del>SPECIAL SIGN S6</del>	<del>48 X 24</del>	<del>8.0</del>	-	<del>MOUNT TO FENCE GATE</del>	
40	24+58.7	114.5 LT	-	SPECIAL SIGN S5	48 X 36	12.0	-	MOUNT TO FENCE GATE	
41	24+64.5	107.9 LT	-	SPECIAL SIGN S6	48 X 24	8.0	-	MOUNT TO FENCE GATE	
42	22+18.3	116.1 LT	-	SPECIAL SIGN S5	48 X 36	12.0	-	MOUNT TO FENCE GATE	
43	22+10.9	116.0 LT	-	SPECIAL SIGN S6	48 X 24	8.0	-	MOUNT TO FENCE GATE	
44	12+30.0	12.7 LT	-	SPECIAL SIGN S10	12 X 24	2.0	1	SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
45	13+76.5	12.7 LT	-	SPECIAL SIGN S10	12 X 24	2.0	1	SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
46	14+90.0	12.7 LT	-	SPECIAL SIGN S10	12 X 24	2.0	1	SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
47	15+93.0	26.1 LT	-	SPECIAL SIGN S10	12 X 24	2.0	1	SIGN POST LOCATED ON UPPER EDGE OF SIDEWALK.	
48	11+02.6	16.1 LT	-	SPECIAL SIGN S11	12 X 24	2.0	1	MOUNT TO A POST BELOW SIGN #11	
49	16+40.9	167.0 LT	-	PICK UP AFTER YOUR DOG (WITH DOG POOP SYMBOL)	12 X 18	1.5	1	SEE DOGPOOPSIGNS.COM	
50	17+17.0	128.0 LT	-	PICK UP AFTER YOUR DOG (WITH DOG POOP SYMBOL)	12 X 18	1.5	1	SEE DOGPOOPSIGNS.COM	
51	15+46.1	149.3 LT	-	PICK UP AFTER YOUR DOG (WITH DOG POOP SYMBOL)	12 X 18	1.5	1	SEE DOGPOOPSIGNS.COM	
52	14+89.1	130.3 LT	-	PICK UP AFTER YOUR DOG (WITH DOG POOP SYMBOL)	12 X 18	1.5	1	SEE DOGPOOPSIGNS.COM	
53	10+87.0	100.0 LT	-	NO PARKING - NOV 1 - APRIL 1	12 X 24	2.0	1		
<b>TOTALS</b>					<b>217.4</b>	<b>32</b>			

**NOTE:**

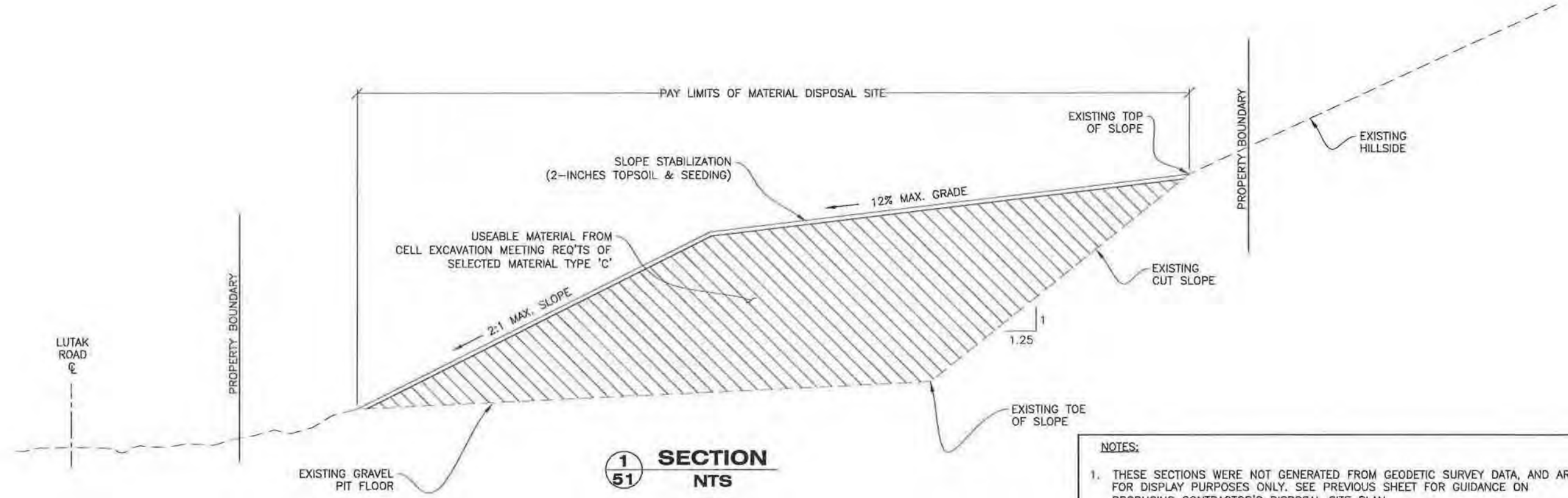
- STATION & OFFSETS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR FIELD REVISIONS AS DIRECTED BY THE ENGINEER.
- SEE STANDARD DRAWING S-00.11 FOR SIGN FRAMING, POST HEIGHT & SPACING DETAILS.
- ALL SIGN POSTS SHALL BE PERFORATED STEEL TUBING AND SHALL HAVE A SLEEVE-TYPE CONCRETE FOUNDATION AS SHOWN ON STANDARD DRAWING S-30.03.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

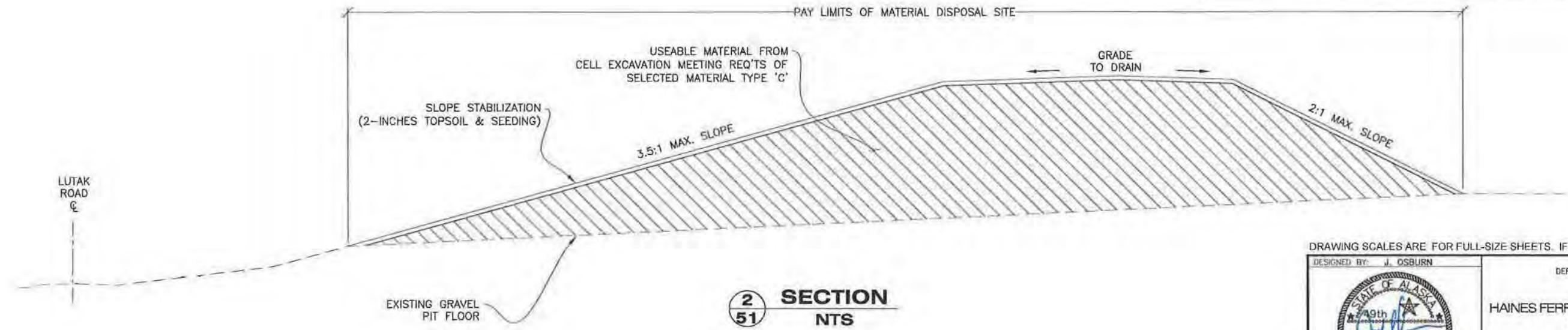
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A</b>	
	<b>SIGNING SCHEDULE</b>	
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR
DRAWN BY: STAFF	86433 / 0955014	2014
PATH: Q:\INS\60433\PLANSET\M\PLANSET A\51-54 - SIGNING STRIP.DWG	TOTAL SHEETS	57
TAB: 54 Tuesday, January 21, 2014 12:00:55 PM	SHEET NO.	54
OSBURN, JDEL D (DOT)		



**1**  
**51** SECTION NTS

- NOTES:**
1. THESE SECTIONS WERE NOT GENERATED FROM GEODETIC SURVEY DATA, AND ARE FOR DISPLAY PURPOSES ONLY. SEE PREVIOUS SHEET FOR GUIDANCE ON PRODUCING CONTRACTOR'S DISPOSAL SITE PLAN.
  2. THE CONTRACTOR SHALL NOT EXCAVATE OR OTHERWISE DAMAGE THE LUTAK ROADWAY STRUCTURAL PAVEMENT SECTION.
  3. THE CONTRACTOR SHALL PROVIDE EROSION & SEDIMENT CONTROL MEASURES ON SITE ACCORDING TO SECTION 641 OF THE SPECIFICATIONS. FINAL SOIL SLOPES SHALL BE STABILIZED AS NECESSARY AT THE DISCRETION OF THE ENGINEER.
  4. ALL WORK ON THE MATERIAL DISPOSAL SITE SHALL BE SUBSIDIARY TO ITEM 203(3) UNCLASSIFIED EXCAVATION.

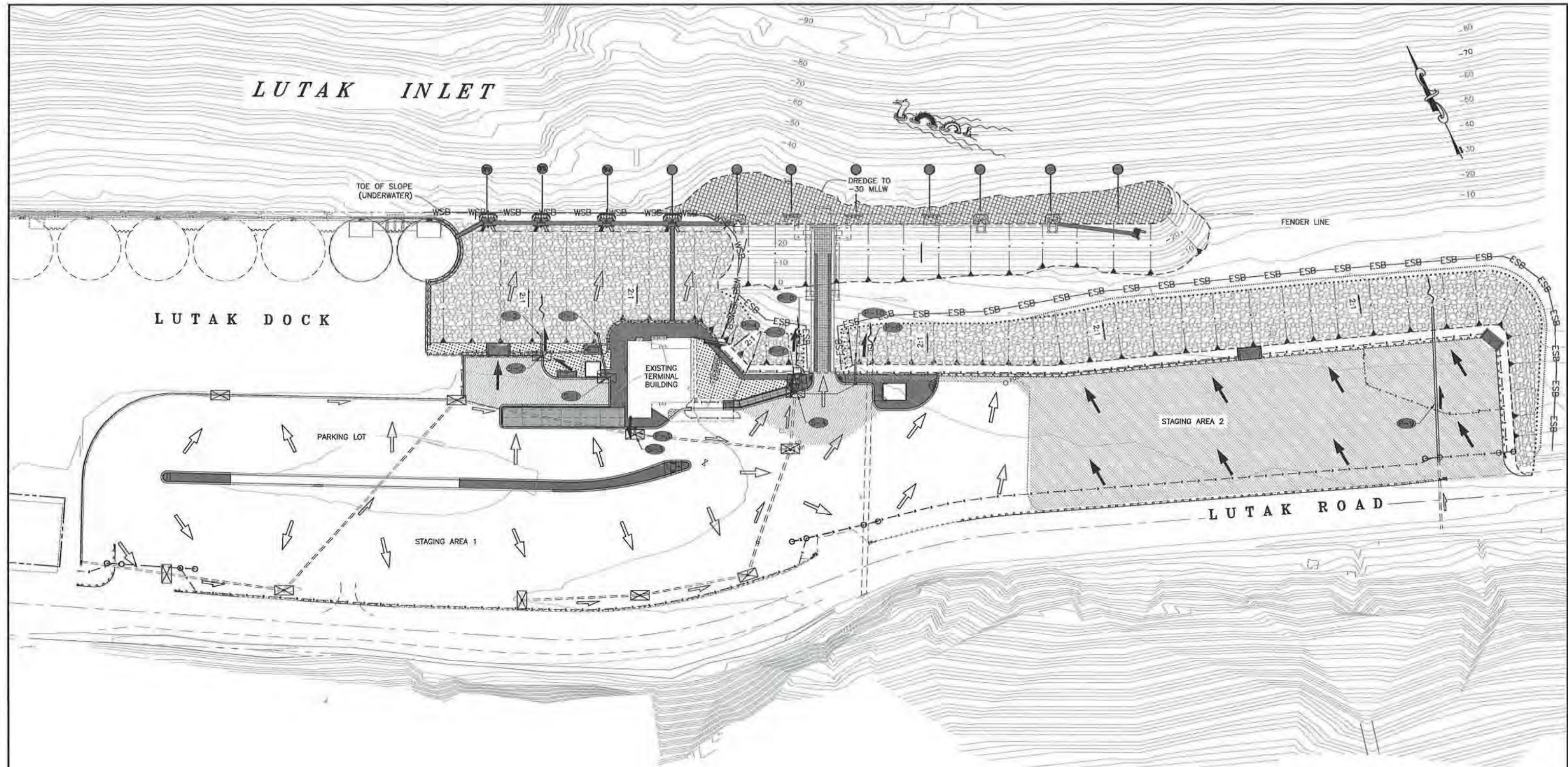


**2**  
**51** SECTION NTS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

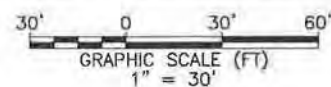
DESIGNED BY: J. OSBURN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET A
CHECKED BY: K. MILLER	<b>MATERIAL DISPOSAL SITE SECTIONS</b>
DRAWN BY: STAFF	
PATH: G:\INS\68433\PLANSET\MP\PLANSET A\55-56 - MATERIAL DISPOSAL SITE.DWG	OSBURN, JOEL D. (DOT)
TAB: 56	Tuesday, January 21, 2014 12:02:52 PM
REVISIONS	PROJECT DESIGNATION
NO. DATE DESCRIPTION	YEAR
	68433 / 0955014
	2014
	SHEET NO. 56
	TOTAL SHEETS 57



**LEGEND**

- ARMOR ROCK
- DREDGE AREA
- NEW GRASSY AREA
- NEW 4" CONCRETE SIDEWALK
- ESB — EAST SILT CONTAINMENT BOOM
- WSB — WEST SILT CONTAINMENT BOOM
- ..... LIMITS OF FILL
- - - - - LIMITS OF CUT
- $\Rightarrow$  EXISTING SURFACE FLOW
- $\Rightarrow$  NEW SURFACE FLOW
- $\Rightarrow$  EXISTING CULVERT FLOW
- $\Rightarrow$  NEW CULVERT FLOW
- $\boxtimes$  STORM DRAIN INLET PROTECTION

**ESCP PLAN**



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

**GENERAL ESCP NOTES:**

1. STRIPING & SIGNING, UTILITIES, PROPERTY BOUNDARIES & EXISTING STRUCTURES TO REMOVE NOT SHOWN; FINISHED PROJECT FEATURES SHOWN FOR CLARITY.
2. THE PLAN DEPICTS SEPARATE SILT BOOMS FOR THE FOLLOWING CONSTRUCTION ACTIVITIES:  
 \*CELL EXCAVATION  
 \*NEW EMBANKMENT

THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TO THE ARRANGEMENT SHOWN. EACH SILT BOOM SHALL BE MAINTAINED & FUNCTIONAL DURING THE DURATION OF THESE EARTH-DISTURBING ACTIVITIES. A SILT BOOM IS NOT REQUIRED FOR DREDGING ACTIVITIES.

REFERENCE SHEET 27 FOR SILT BOOM DETAILS.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET A</b>	
CHECKED BY: K. MILLER		<b>ESCP PLAN</b>	
DRAWN BY: STAFF			
PATH: G:\HNS\68433\PLANSET\WF\PLANSET A\57 - ESCP PLAN.DWG		OSBURN, JOEL D (DOT)	
TAB: 57 Tuesday, January 21, 2014 12:04:17 PM			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	YEAR
			2014
		68433 / 0955014	57
			57

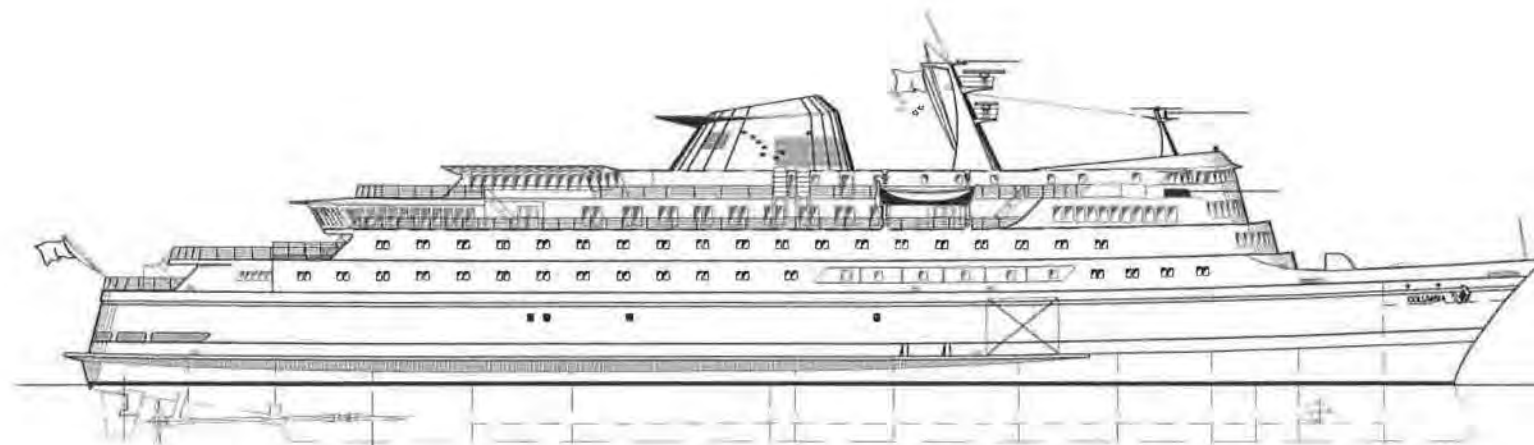
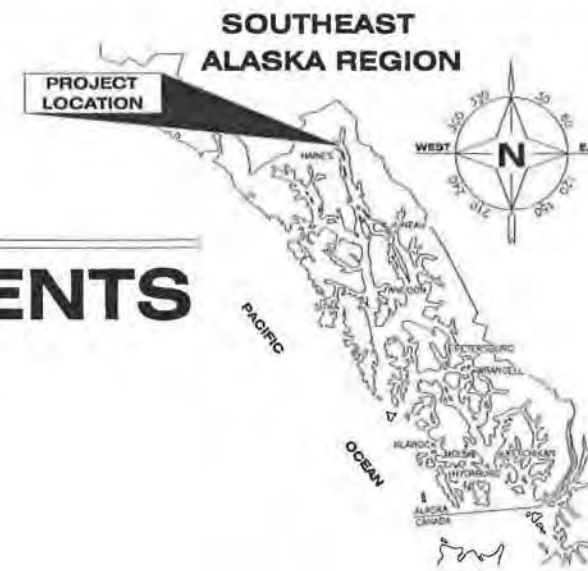


# State of Alaska

Department of Transportation & Public Facilities  
SOUTHEAST REGION

## HAINES FERRY TERMINAL IMPROVEMENTS HAINES, ALASKA

PROJECT No. 68433 / 0955014



### PLANSET B: MARINE STRUCTURES

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

#### SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	MARINE SITE PLAN
4-11	DOLPHINS W3-W6
12-13	DOLPHIN E5
14	TENSION PILE ANCHOR
15	44' & 57' CATWALKS
16	79' & 97' CATWALKS
17	CATWALK DETAILS
18	MISCELLANEOUS DETAILS
19	WAITING SHELTER

PATH: O:\HNS\68433\PLANSET\MF\PLANSET B\B1-TITLE SHEET.DWG TAB:1  
Monday, July 01, 2013 10:58:37 AM  
PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68433 / 0955014	2014	1	19

## GENERAL NOTES

### DESIGN SPECIFICATIONS

PER CONTRACT DOCUMENTS FOR PROJECT NO. 68433/0955014

DESIGN STANDARDS: AISC STEEL CONSTRUCTION MANUAL 14TH ED. LRFD  
AASHTO LRFD GUIDE SPECIFICATIONS, PEDESTRIAN BRIDGES, 2009

DESIGN LOADS: BERTHING - 100 FT-KIPS  
MOORING - 80 KIPS  
LIVE LOAD - 90 PSF (CATWALKS)

### AMHS DESIGN VESSELS:

- M/V AURORA/LECONTE
- M/V FAIRWEATHER/CHENEGA
- M/V TAKU
- M/V MATANUSKA/MALASPINA
- M/V COLUMBIA
- M/V KENNICOTT

### MATERIALS

"BUY AMERICA" PROVISIONS APPLY

STEEL SHAPE & PLATES: PLATES & SHAPES - ASTM A36, UNLESS OTHERWISE NOTED  
HOLLOW STRUCTURAL SECTIONS - ASTM A500 GR B  
HP - ASTM A572 GR 50  
PIPE - ASTM A53 GR B  
STAINLESS STEEL - ASTM A276 TYPE 316  
W - ASTM A992, ASTM A709

PILING: STEEL - API 5L X52, OR ASTM A252 GR 3, OR ASTM A709 GR 50  
FABRICATED TO API 2B

GRATING: STEEL WELDED-BAR TYPE, SERRATED TOP, THICKNESS & BAR SPACINGS AS NOTED ON PLANS.

STEEL 10-DIAMOND GRIP STRUT PLANK, OR APPROVED EQUAL.

PLASTIC: ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PLASTIC ASTM D4020

FASTENERS: PER SPECS

CONCRETE: CLASS A

REBAR: LADDER RUNGS - ASTM A706 GR 60  
REINFORCEMENT - ASTM A615 GR 60

### PROTECTIVE COATINGS

ALL STEEL, PILING, & WELDMENTS: GALVANIZED AFTER FABRICATION PER SPECS, UNLESS OTHERWISE NOTED

FIELD REPAIR OF EXISTING COATINGS: DAMAGED GALVANIZED AND PAINT COATINGS SHALL BE REPAIRED PER SPEC 504-3.03.

### PILING

DIAMETER & WALL THICKNESS AS PER PILING TABLE & PLANS  
OPEN END DRIVING SHOES REQUIRED ON ALL PILES, APF 0-14001 OR EQUAL

### WELDS

ALL WELDING SHALL BE PERFORMED BY CERTIFIED PERSONS IN ACCORDANCE WITH AWS D1.1 AND D1.5 AS APPLICABLE.

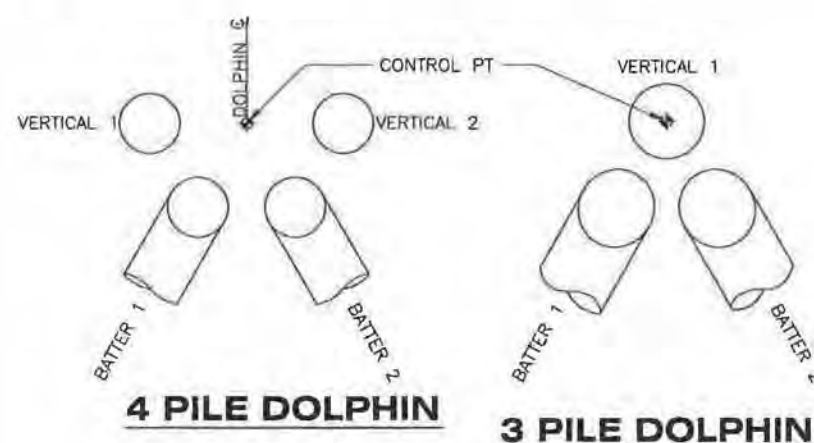
## PILE DATA

STRUCTURE	PILE	PILE SIZE	ULTIMATE RESISTANCE (kips)		ELEVATION (ft)			TENSION ANCHOR	EST. PILE LENGTH 24"Ø	EST. PILE LENGTH 30"Ø
			UPLIFT	BEARING	EST. MUDLINE	EST. TIP	CUTOFF			
E5 N.I.C.	VERTICAL 1	24"Ø x 1/2"	-	540	-27	-75	+27.3		103	
	BATTER 1		420	-	-19	-100	+33		140	
	BATTER 2		420	-	-25	-105	+33		146	
W3	VERTICAL 1	30"Ø x 1/2"	330	250	-32	-78	+26	YES		104
	VERTICAL 2		330	250	-32	-73	+26	YES		99
	BATTER 1		410	410	-22	-54	+33	YES		92
	BATTER 2		410	410	-22	-54	+33	YES		92
W4	VERTICAL 1	30"Ø x 1/2"	330	250	-30.5	-68	+26	YES		94
	VERTICAL 2		330	250	-30.5	-68.5	+26	YES		94.5
	BATTER 1		410	410	-22	-55	+33	YES		93
	BATTER 2		410	410	-22	-52	+33	YES		89.5
W5	VERTICAL 1	30"Ø x 1/2"	330	250	-24	-58	+26	YES		84
	VERTICAL 2		330	250	-34	-60	+26	YES		86
	BATTER 1		410	410	-22	-46	+33	YES		83
	BATTER 2		410	410	-22	-51	+33	YES		88.5
W6	VERTICAL 1	30"Ø x 1/2"	330	250	-29	-45.5	+26	YES		71.5
	VERTICAL 2		330	250	-29	-47	+26	YES		73
	BATTER 1		410	410	-22	-34.5	+33	YES		71
	BATTER 2		410	410	-22	-39.5	+33	YES		76.5
<b>EST. TOTAL LENGTH (ft) =</b>									<b>389</b>	<b>1391.5</b>

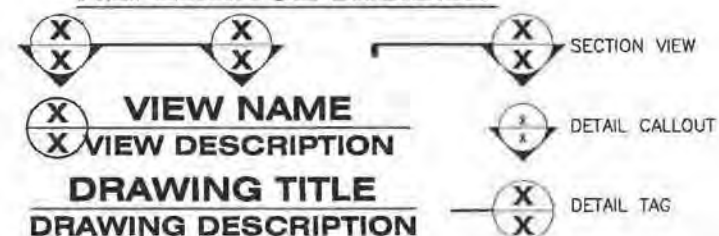
Tension anchors not installed in dolphin W3 due to conflicts

### NOTES:

1. ULTIMATE RESISTANCE FOR BEARING AND UPLIFT ARE SHOWN IN THE PILE TABLE. RESISTANCE BASED ON FINISH GRADE ELEVATIONS.
2. DRIVE VERTICAL AND BATTER PILES OF W3-W6 TO REFUSAL IN ROCK AND THEN INSTALL TENSION PILE ANCHOR. DRIVE VERTICAL AND BATTER PILES OF E5 TO REFUSAL OR ESTIMATED TIP ELEVATION.
3. REFER TO SECTION 518 OF THE SPECIFICATIONS FOR TENSION PILE ANCHOR REQUIREMENTS.



### REFERENCE LEGEND



### NOTES:

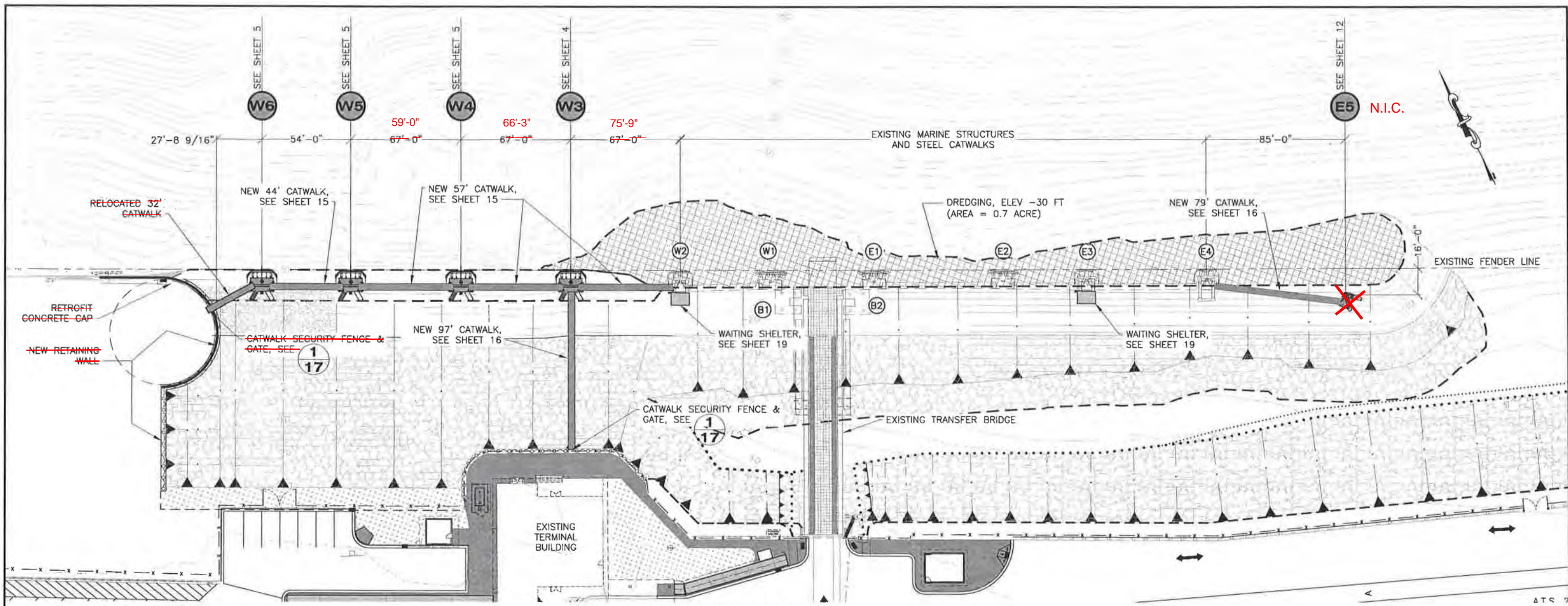
1. USE THE SHEET NUMBER WHERE THE REFERENCE IS FOUND WHEN REFERENCING TO A DIFFERENT SHEET.
2. USE A DASH MARK WHEN REFERENCE IS FOUND ON THE SAME SHEET.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

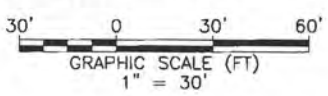
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL  CHECKED BY: K. MILLER DRAWN BY: STAFF	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS                  PLANSET B</b> <b>GENERAL NOTES</b>
PATH: d:\hms\68433\PLANSET\MF\PLANSET B\B7-ESTIMATE OF QUANTITIES.DWG TAB: 2 Tuesday, January 21, 2014 2:17:02 PM LOWELL, DAVID H (DOT)	
REVISIONS NO. DATE DESCRIPTION	PROJECT DESIGNATION <b>68433 / 0955014</b> YEAR <b>2014</b> SHEET NO. <b>2</b> TOTAL SHEETS <b>19</b>



**MARINE SITE PLAN**



- Legend**
- NEW MOORING STRUCTURE
  - EXISTING MOORING STRUCTURE
  - ARMOR ROCK
  - DREDGE AREA
  - EXISTING CATWALK

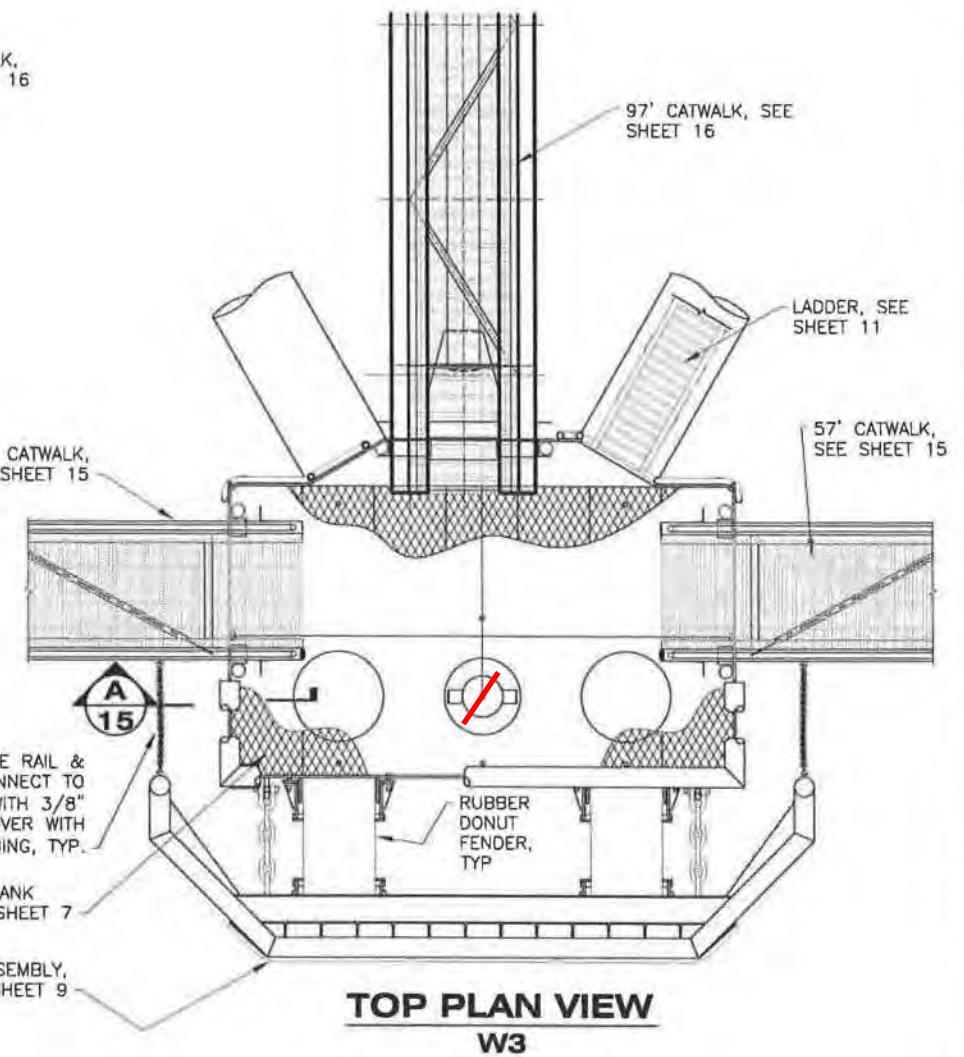
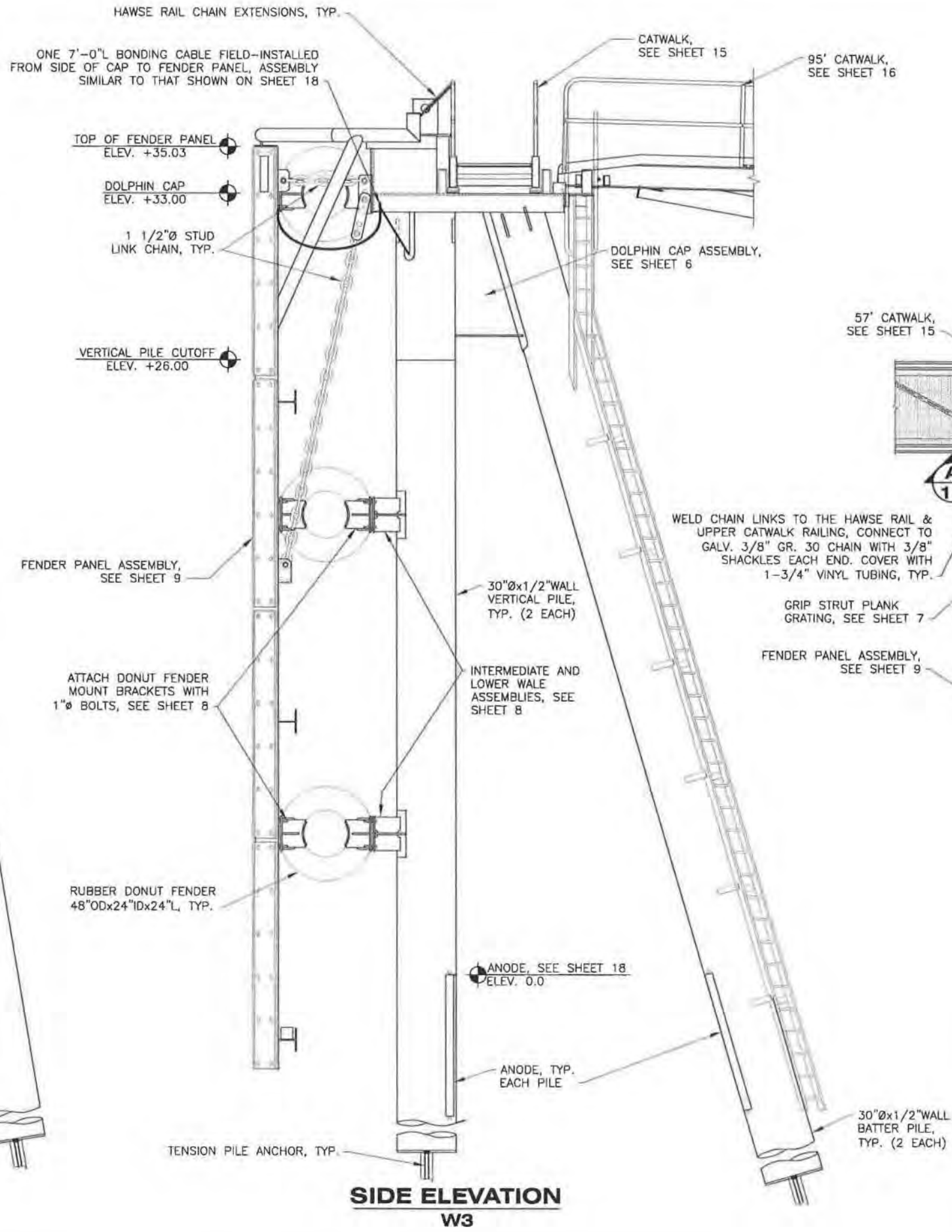
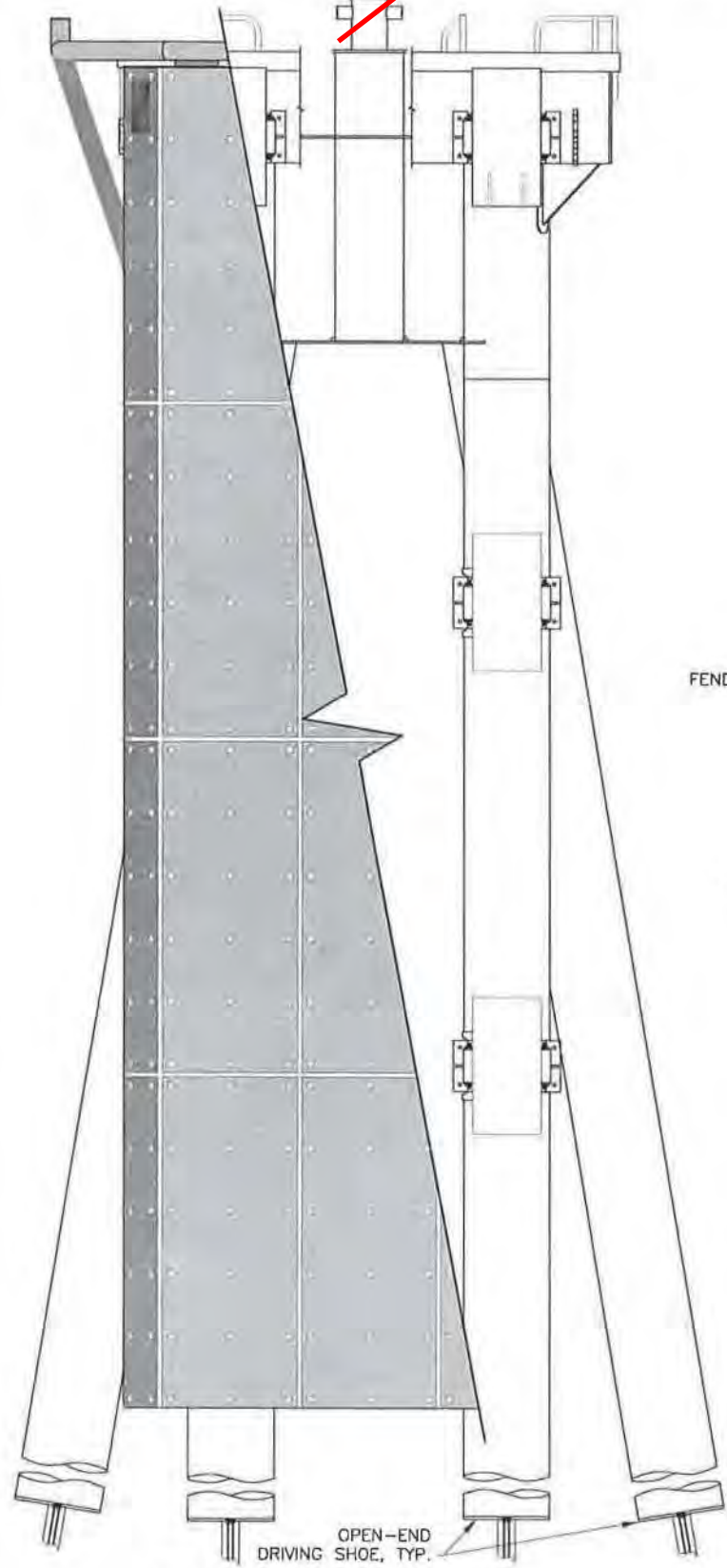
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET B</b> <b>MARINE SITE PLAN</b>	
CHECKED BY: K. MILLER DRAWN BY: STAFF		PATH: G:\HNS\68433\PLANSET\WF\PLANSET B\B3-MARINE SITE PLAN.DWG TAB: 3 Wednesday, April 02, 2014 3:12:15 PM LOWELL, DAVID H (DOT)	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR SHEET NO. TOTAL SHEETS <b>2014 3 19</b>

Bollard omitted on dolphin W3

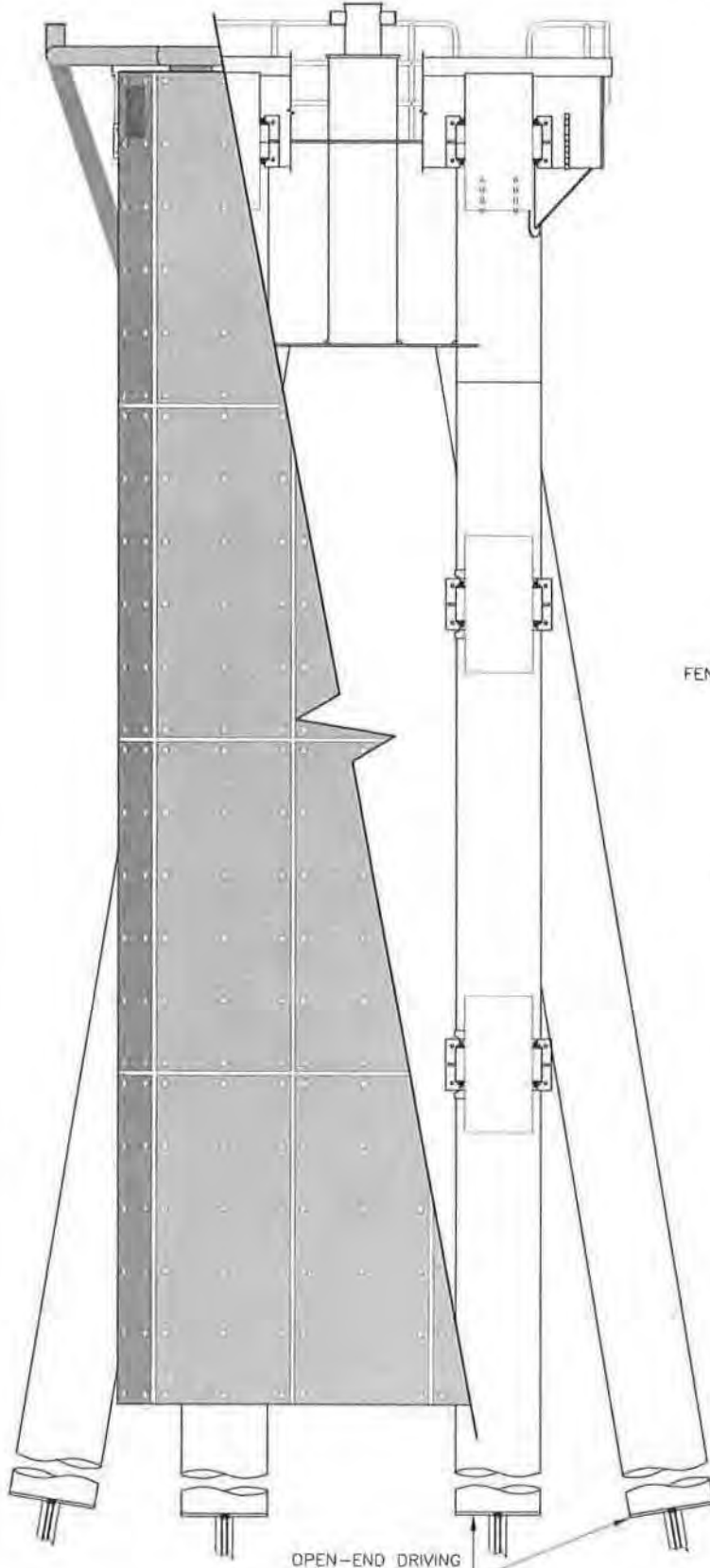


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

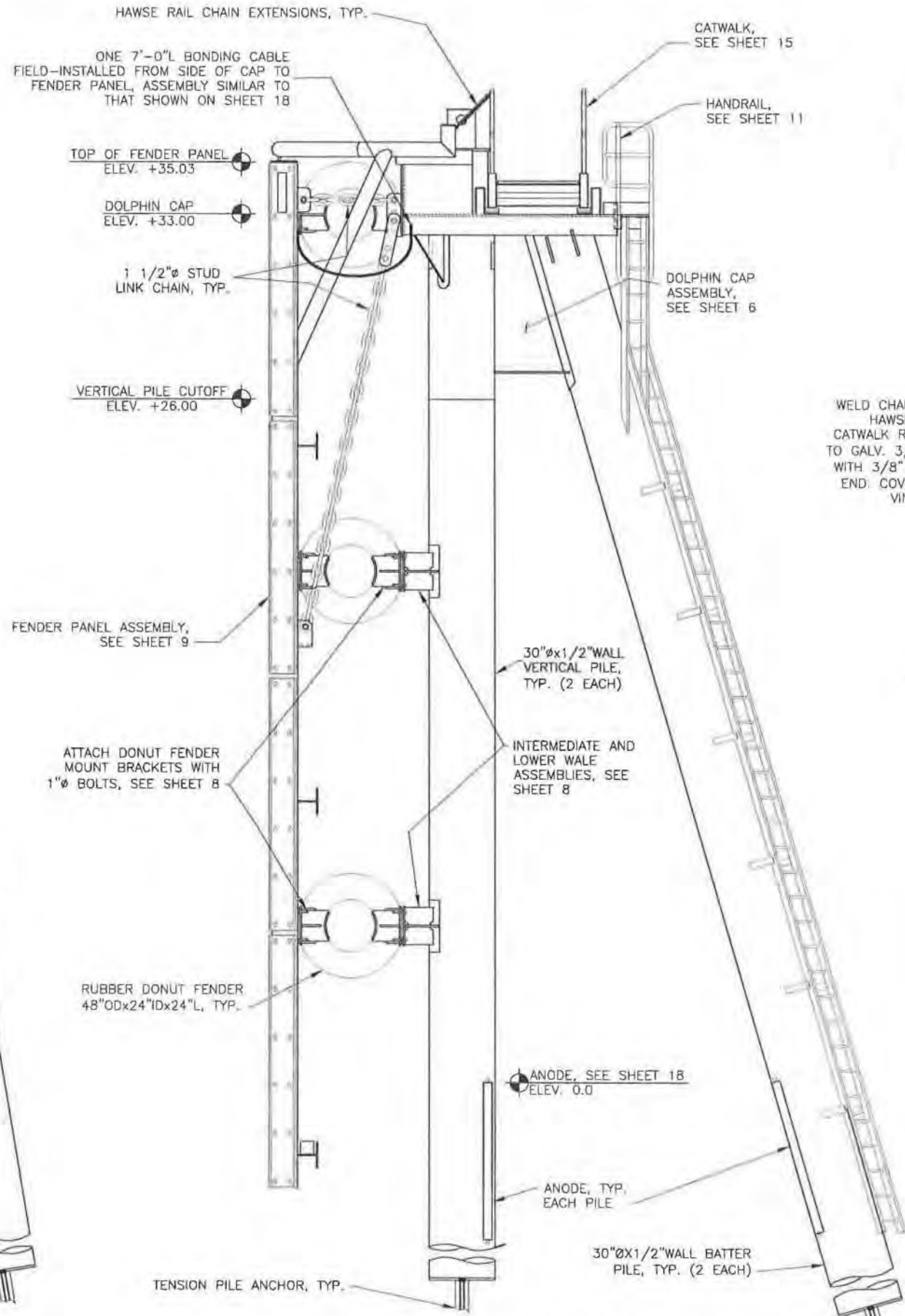
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

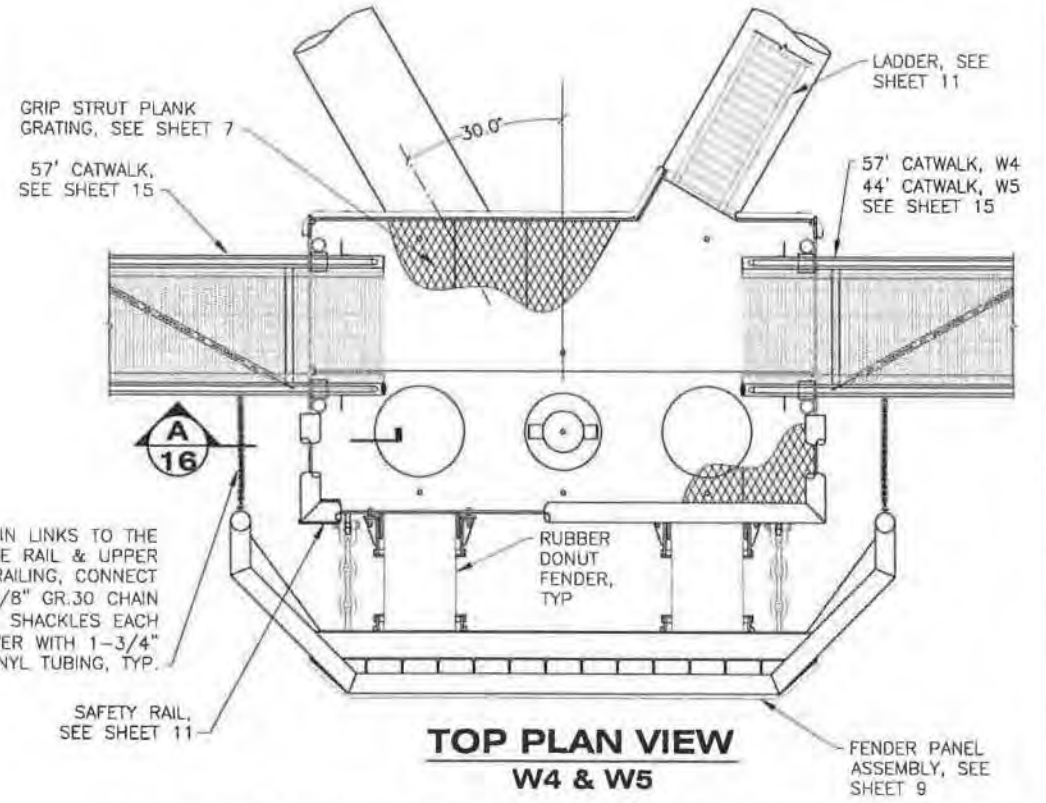
DESIGNED BY: D. LOWELL		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET B</b>	
CHECKED BY: K. MILLER		<b>PLAN &amp; ELEVATION DOLPHIN W3</b>	
DRAWN BY: STAFF		PATH: Q:\HNS\68433\PLANSET\MF\PLANSET B\B4-W3 PLAN & ELEV.DWG	
TAB: 4		Friday, January 24, 2014 11:26:24 AM LOWELL, DAVID H (D01)	
REVISIONS		PROJECT DESIGNATION	YEAR
NO	DATE	DESCRIPTION	SHEET NO.
			TOTAL SHEETS
		<b>68433 / 0955014</b>	<b>2014</b>
			<b>4</b>
			<b>19</b>



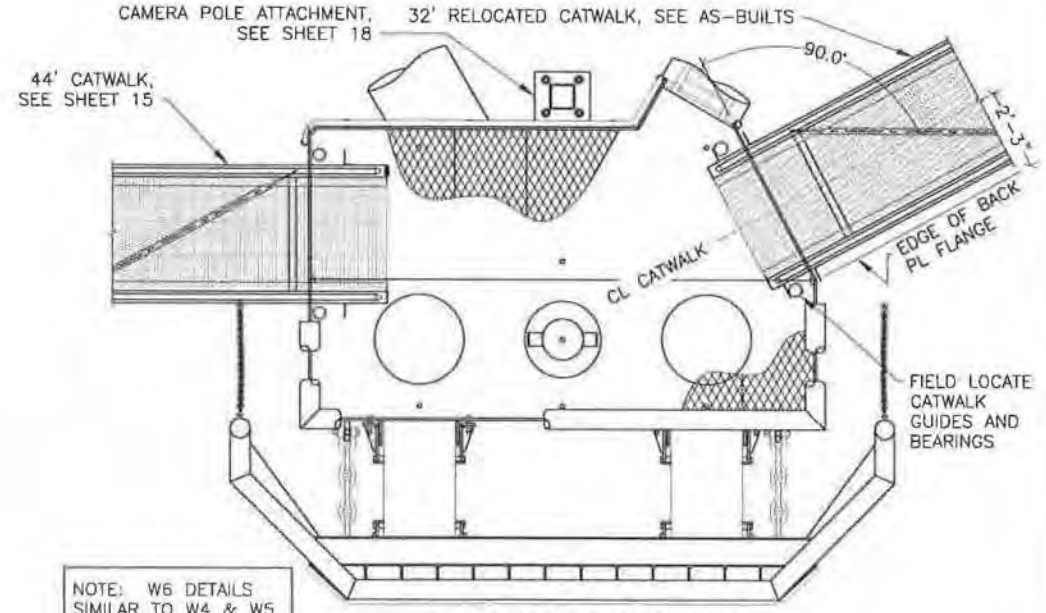
**FRONT ELEVATION  
W4-W6**



**SIDE ELEVATION  
W4-W6 (W4 SHOWN)**



**TOP PLAN VIEW  
W4 & W5**



**TOP PLAN VIEW  
W6**

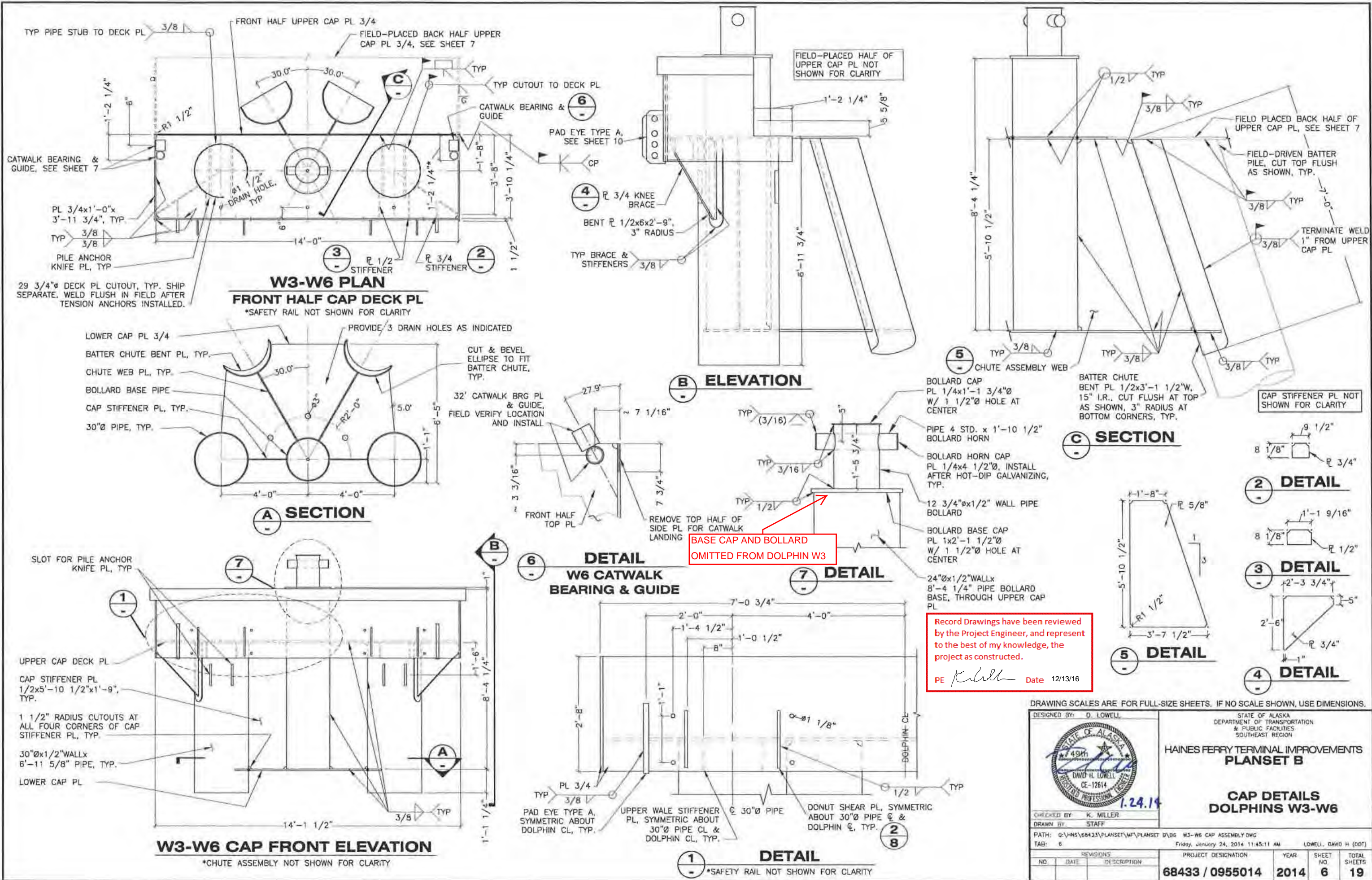
NOTE: W6 DETAILS SIMILAR TO W4 & W5 EXCEPT WHERE NOTED

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET B</b>		
CHECKED BY: K. MILLER DRAWN BY: STAFF		<b>PLAN &amp; ELEVATION          DOLPHINS W4-W6</b>		
DATE: 1.29.14		PROJECT DESIGNATION: 68433 / 0955014		
REVISIONS NO. DATE DESCRIPTION		YEAR: 2014	SHEET NO.: 5	TOTAL SHEETS: 19

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16



29 3/4" DECK PL CUTOUT, TYP. SHIP SEPARATE. WELD FLUSH IN FIELD AFTER TENSION ANCHORS INSTALLED.

**W3-W6 PLAN**  
**FRONT HALF CAP DECK PL**  
 \*SAFETY RAIL NOT SHOWN FOR CLARITY

**B ELEVATION**

**A SECTION**

**6 DETAIL**  
**W6 CATWALK BEARING & GUIDE**

**7 DETAIL**

**C SECTION**

**W3-W6 CAP FRONT ELEVATION**  
 \*CHUTE ASSEMBLY NOT SHOWN FOR CLARITY

**1 DETAIL**  
 \*SAFETY RAIL NOT SHOWN FOR CLARITY

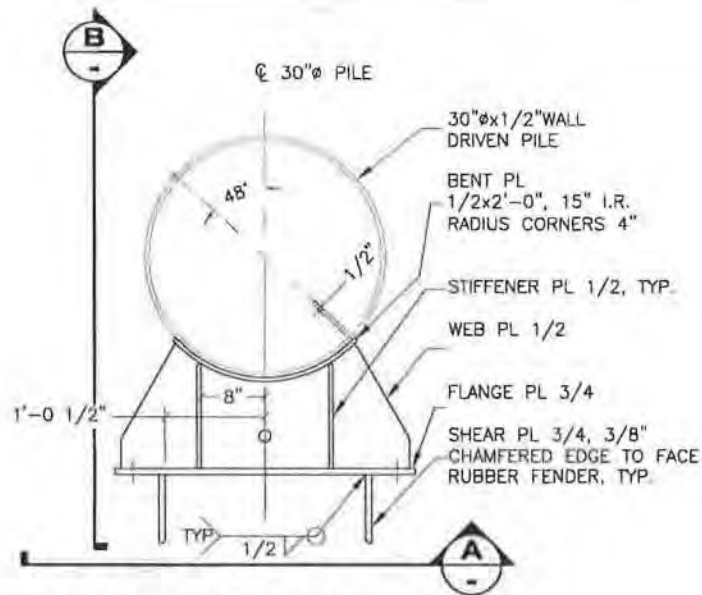
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

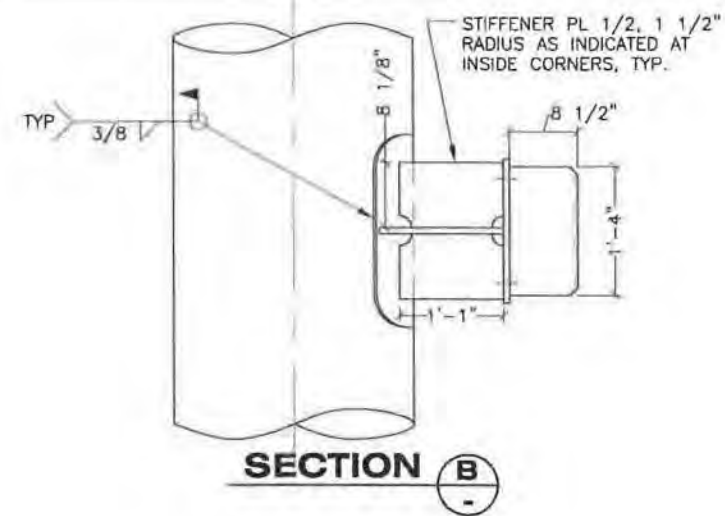
DESIGNED BY: D. LOWELL		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET B</b>  <b>CAP DETAILS DOLPHINS W3-W6</b>	
CHECKED BY: K. MILLER		DATE: 1.24.14	
DRAWN BY: STAFF		PROJECT DESIGNATION: W3-W6 CAP ASSEMBLY DWG	
PATH: Q:\HNS\68433\PLANSET\WF\PLANSET B\B6 W3-W6 CAP ASSEMBLY DWG		Friday, January 24, 2014 11:45:11 AM	
TAB: 6		LOWELL, DAVID H (DOT)	
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
			TOTAL SHEETS
		68433 / 0955014	2014 6 19



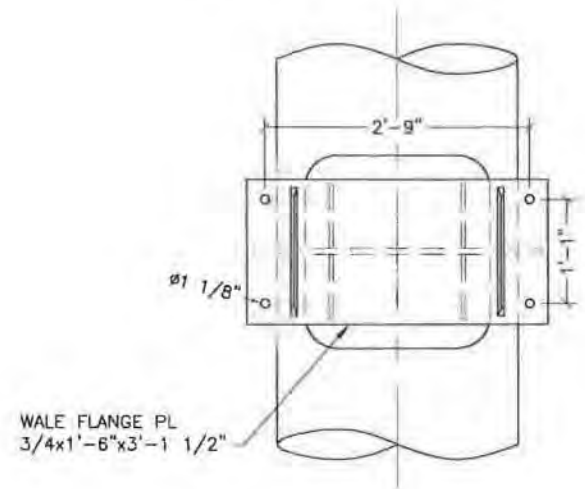
ALL WELDS UNLESS INDICATED OTHERWISE  $\frac{3}{8}$



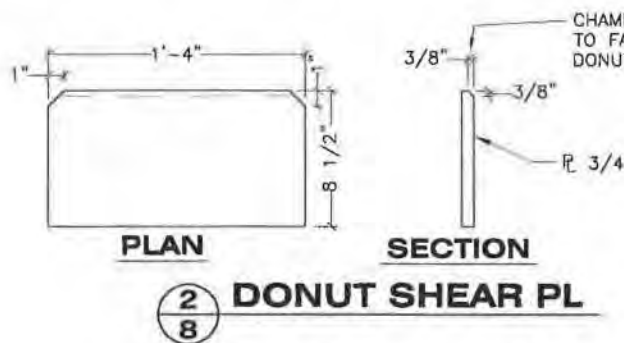
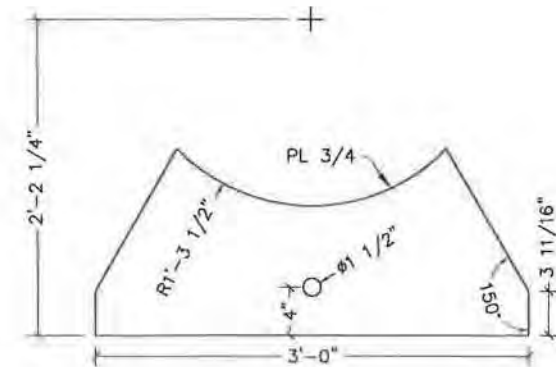
**WALE ASSEMBLIES**



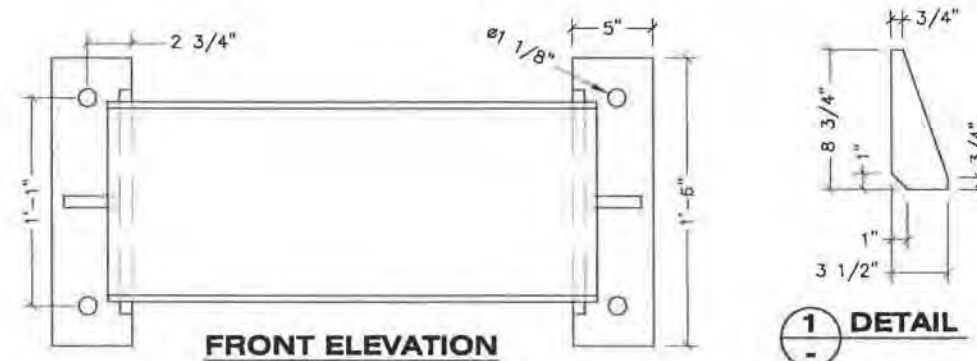
**SECTION B**



**ELEVATION**

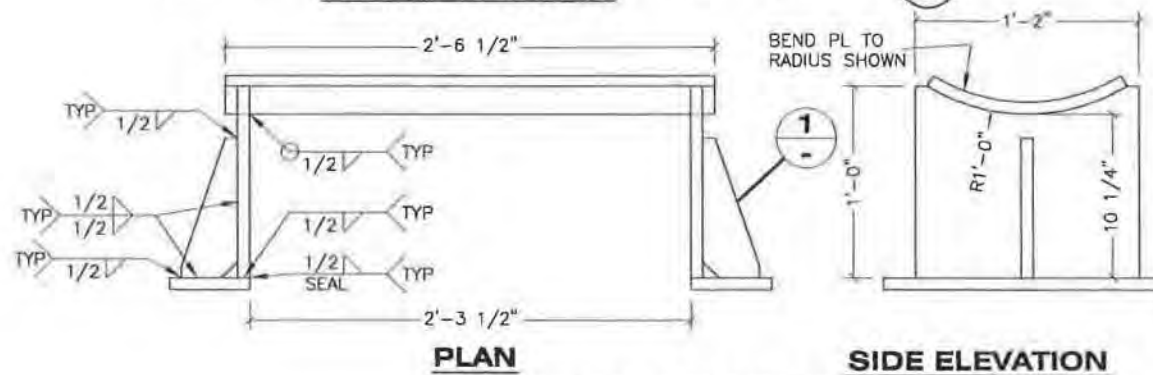


**DONUT SHEAR PL**



**FRONT ELEVATION**

**DETAIL 1**



**PLAN**

**SIDE ELEVATION**

**FENDER MOUNT BRACKET**

\*ALL PL 3/4

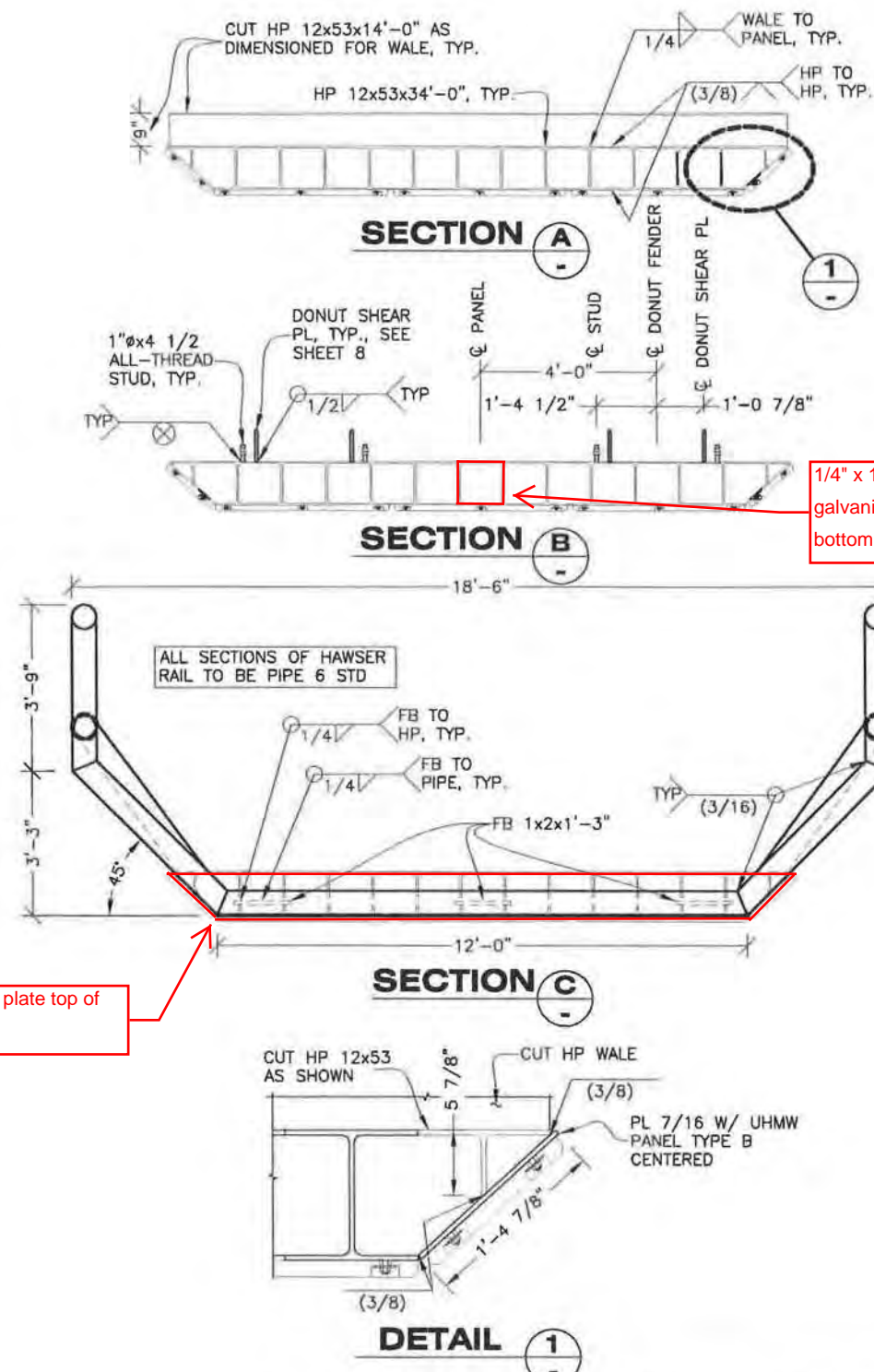
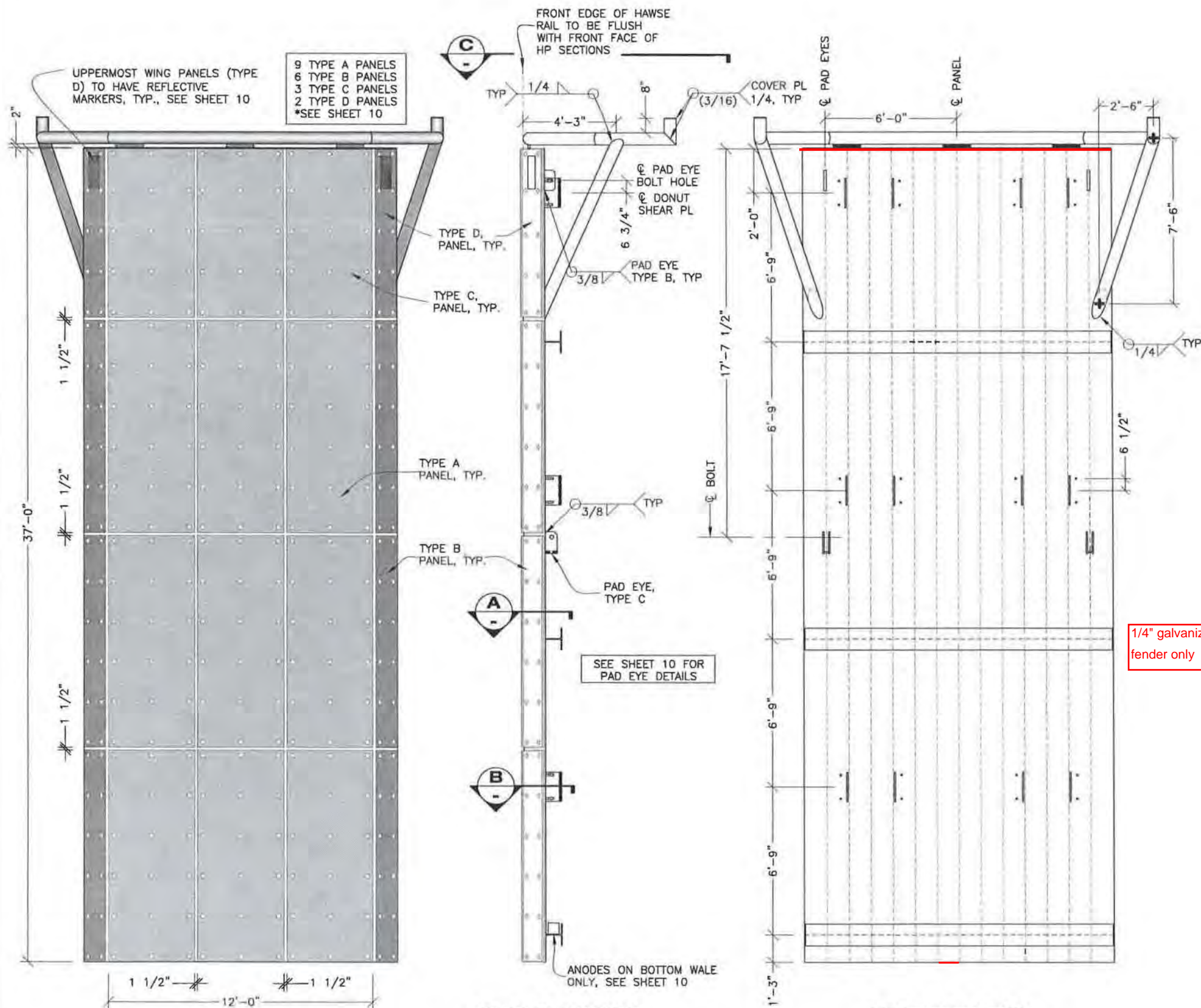
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION		
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET B</b>		
		INTERMEDIATE & LOWER WALE DETAILS DOLPHINS W3-W6		
CHECKED BY: K. MILLER	Friday, January 24, 2014 11:45:51 AM			
DRAWN BY: STAFF	LOWELL, DAVID H (DOT)			
PATH: Q:\HMS\68433\PLANSET\MF\PLANSET B\B7-B8 W3-W6 DECK.DWG	PROJECT DESIGNATION			
TAB: B	YEAR			
REVISIONS:		SHEET NO.		TOTAL SHEETS
NO.	DATE	DESCRIPTION	68433 / 0955014	2014
			8	19





FRONT ELEVATION

SIDE ELEVATION

REAR ELEVATION

FENDER PANEL ASSEMBLY

DETAIL 1

1/4" galvanized plate top of fender only

1/4" x 11 5/16" x 1'-0" galvanized plate bottom of fender only

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL

CHECKED BY: K. MILLER  
 DRAWN BY: STAFF

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

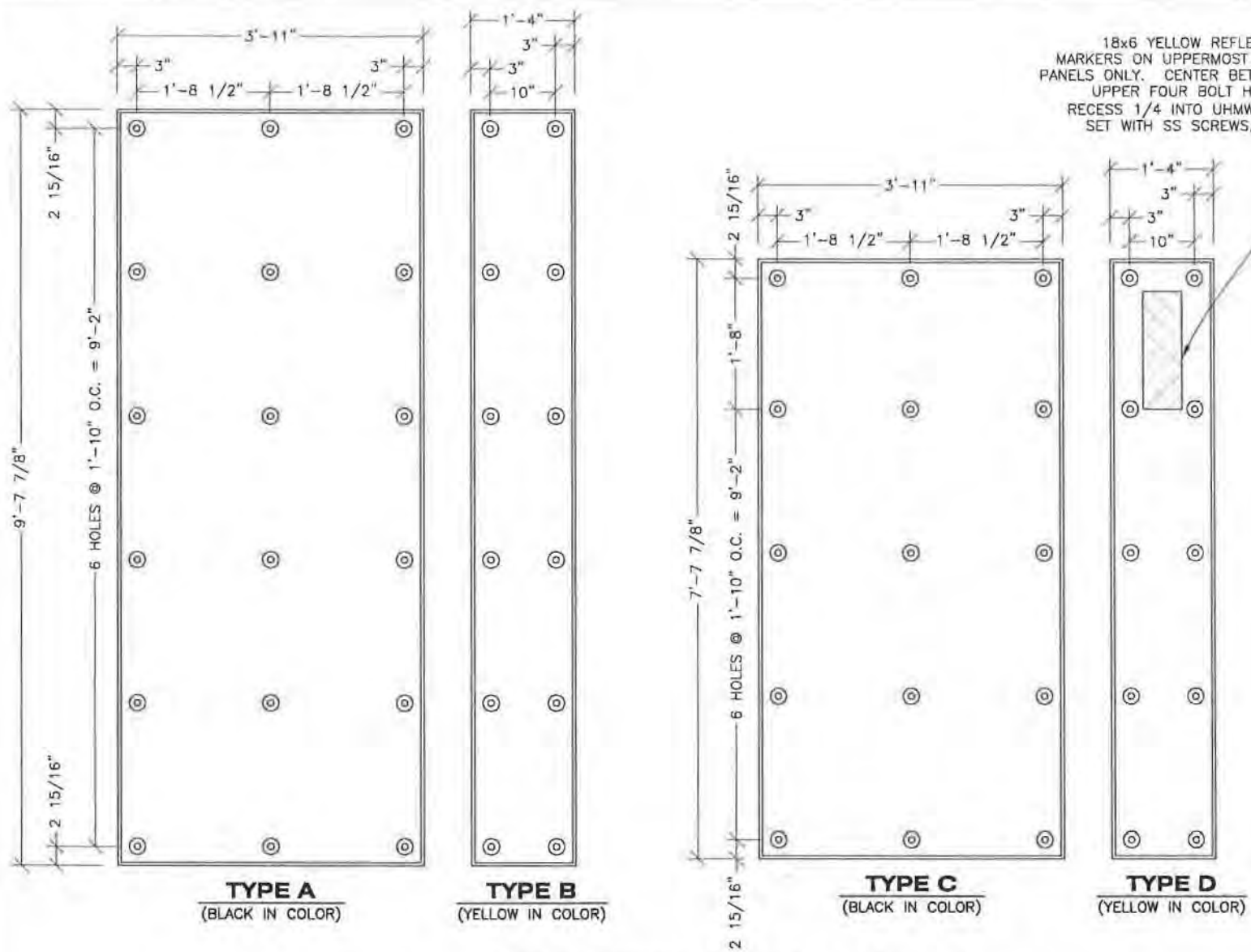
HAINES FERRY TERMINAL IMPROVEMENTS  
**PLANSET B**

**FENDER PANEL FRAME  
 DOLPHINS W3-W6**

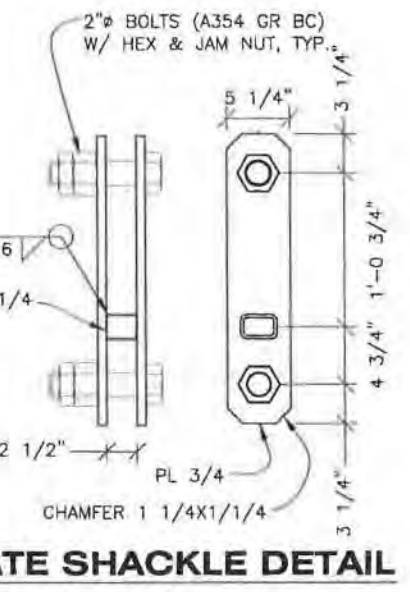
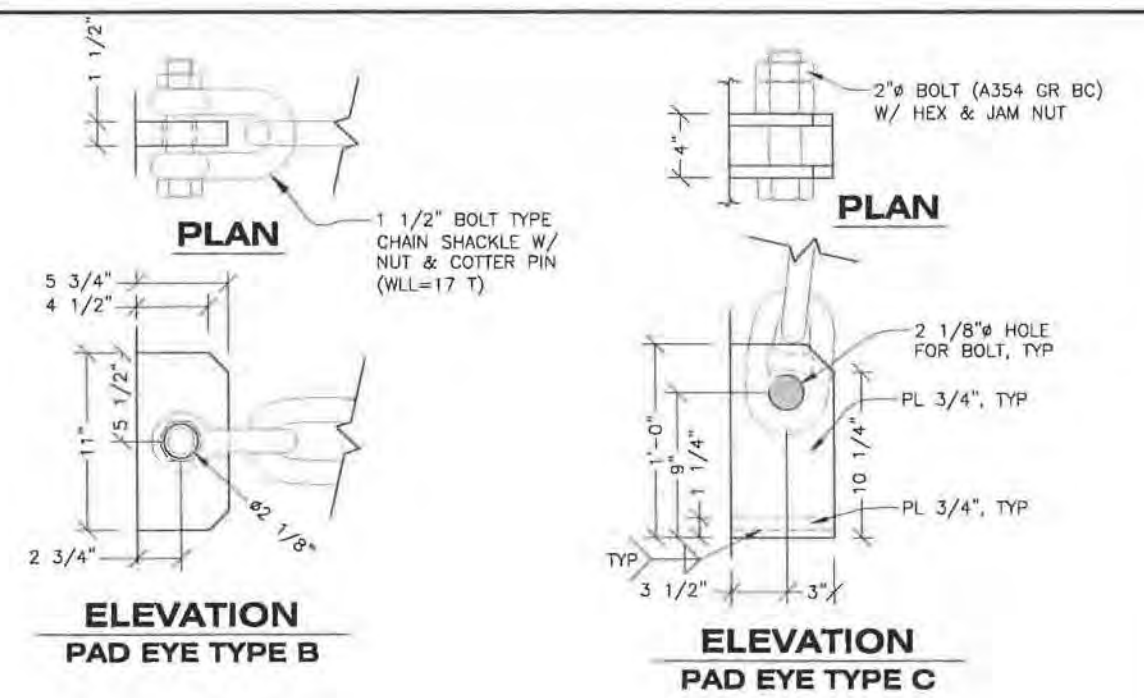
1.24.14

PATH: O:\MNS\88433\PLANSET\WF\PLANSET E\B9 4-PILE FENDER FRAME.DWG  
 TAB: 9 Friday, January 24, 2014 11:47:00 AM LOWELL, DAVID H (DOT)

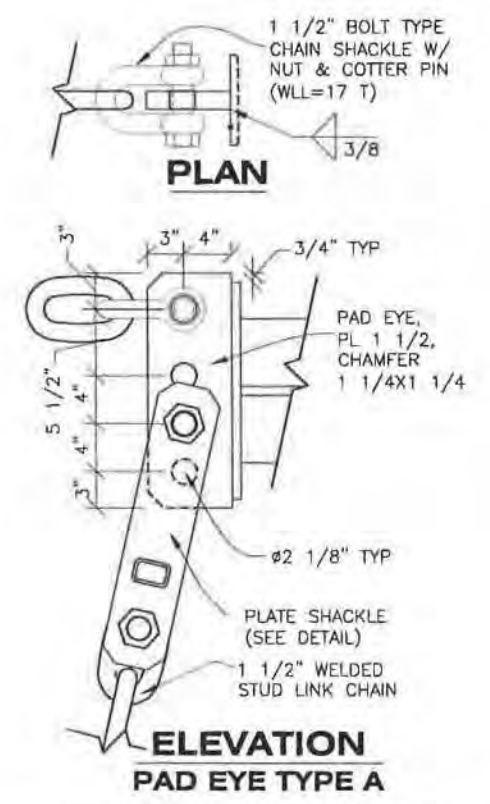
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68433 / 0955014	2014	9	19



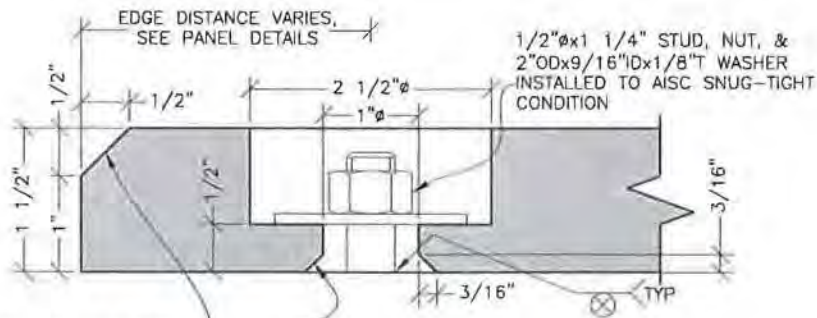
**1 1/2" UHMW FENDER PANELS**



**PLATE SHACKLE DETAIL**



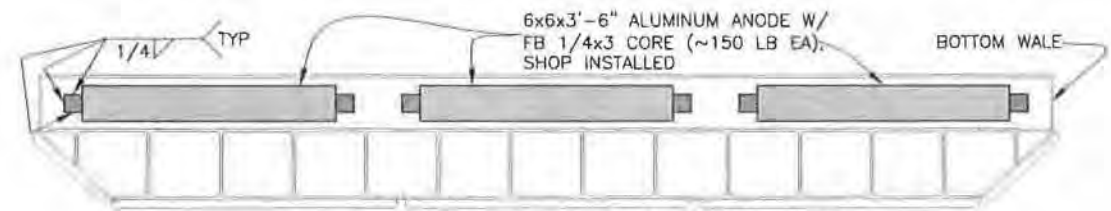
**ELEVATION PAD EYE TYPE A**



**UHMW FASTENER HOLES & EDGE CHAMFERS**

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

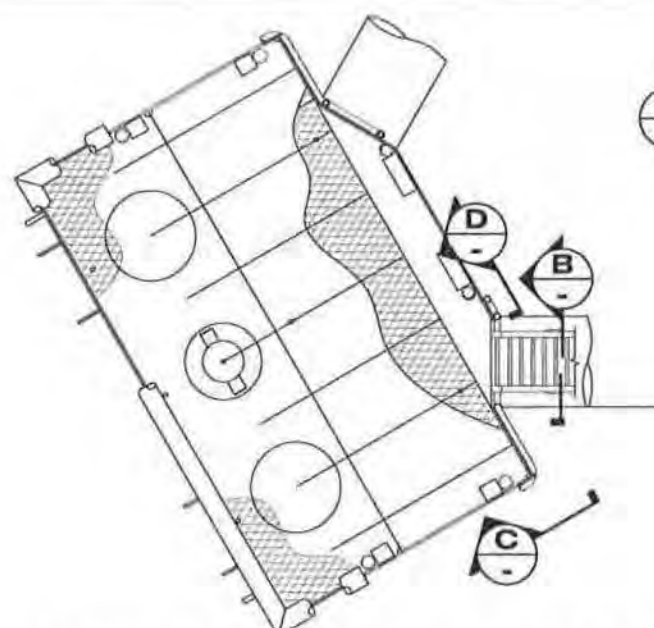
- CHAIN NOTES:**
1. STUD MAY BE REMOVED IN END LINKS OF HORIZONTAL CHAIN TO PASS SHACKLE. DO NOT REMOVE STUDS IN VERTICAL CHAIN.
  2. INSTALL CHAIN FREE OF TWISTS. DO NOT TWIST CHAIN TO ADJUST LENGTH.
  3. FIELD ADJUST R SHACKLE AND CHAIN SO THAT FENDER PANEL IS AT, OR JUST ABOVE, DESIGN ELEVATION.



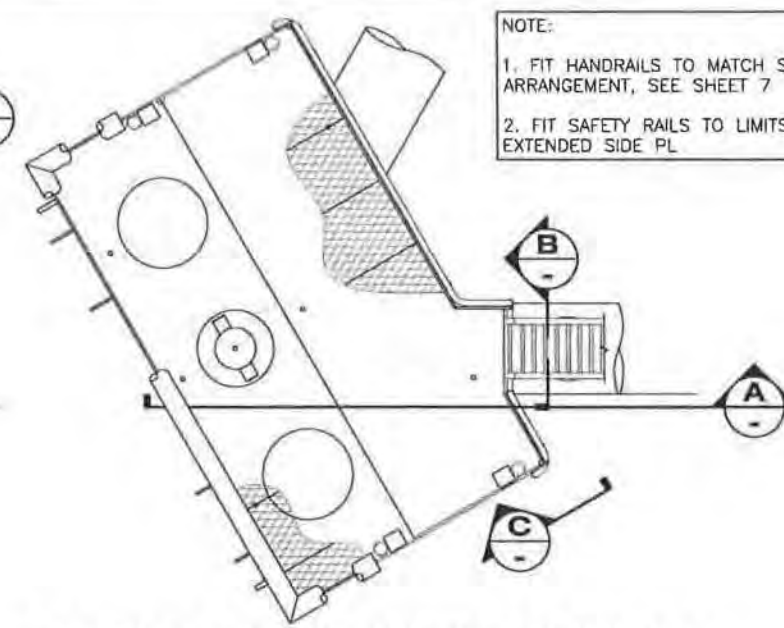
**FENDER PANEL ANODES**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

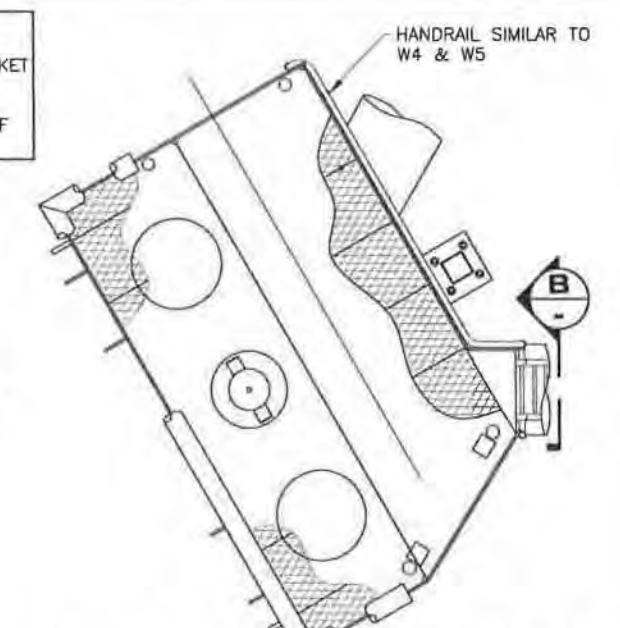
DESIGNED BY: D. LOWELL		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET B</b>	
		MISCELLANEOUS FENDER DETAILS DOLPHINS W3-W6	
CHECKED BY: K. MILLER		DATE: 1.24.14	
DRAWN BY: STAFF		PROJECT DESIGNATION: 68433 / 0955014	
PATH: Q:\HNS\68433\PLANSET\WF\PLANSET B\B10 4-PILE FENDER DETAILS.DWG		YEAR: 2014	SHEET NO: 10
TAG: 10		DATE: Friday, January 24, 2014 11:53:03 AM	TOTAL SHEETS: 19
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.



**LADDER & HANDRAIL PLAN W3**

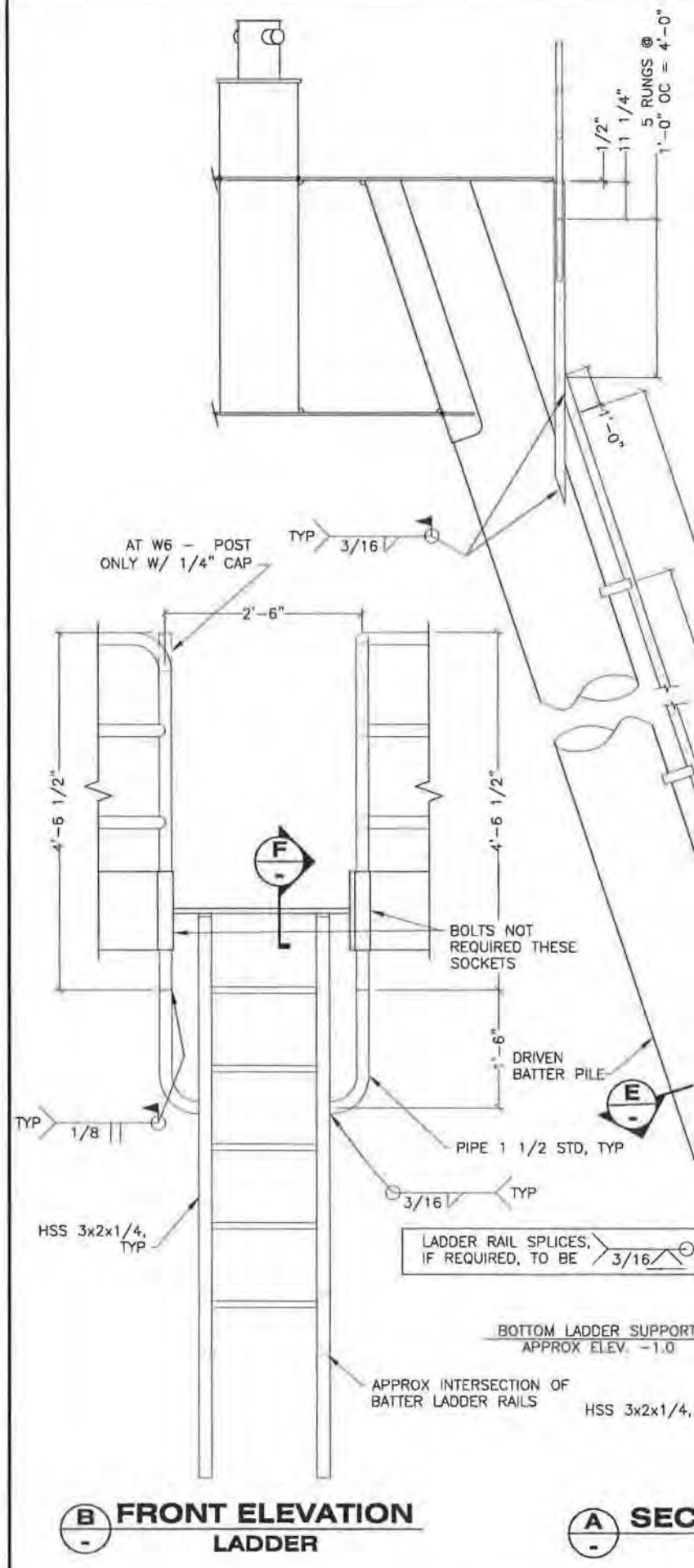


**LADDER & HANDRAIL PLAN W4-W5**



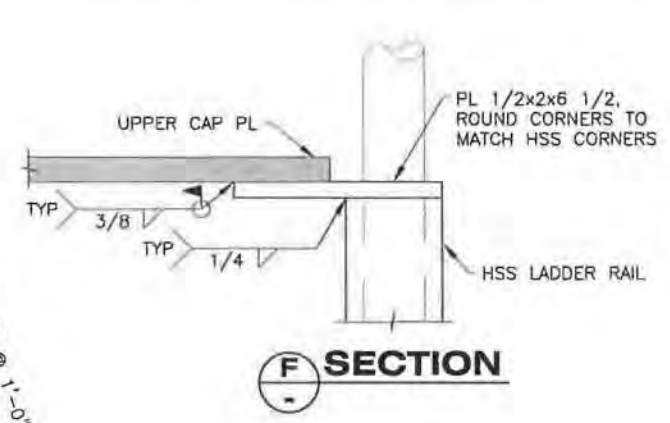
**LADDER & HANDRAIL PLAN W6**

NOTE:  
 1. FIT HANDRAILS TO MATCH SOCKET ARRANGEMENT, SEE SHEET 7  
 2. FIT SAFETY RAILS TO LIMITS OF EXTENDED SIDE PL

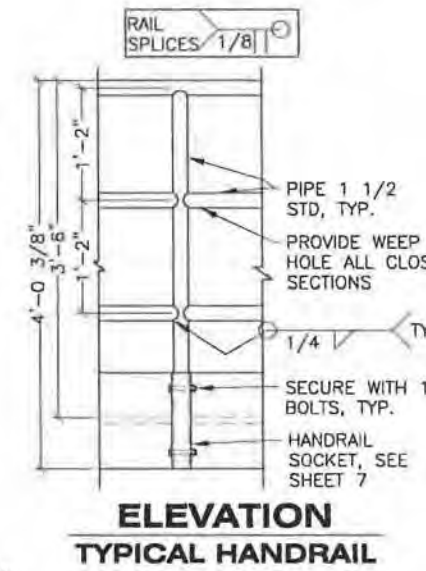


**FRONT ELEVATION LADDER**

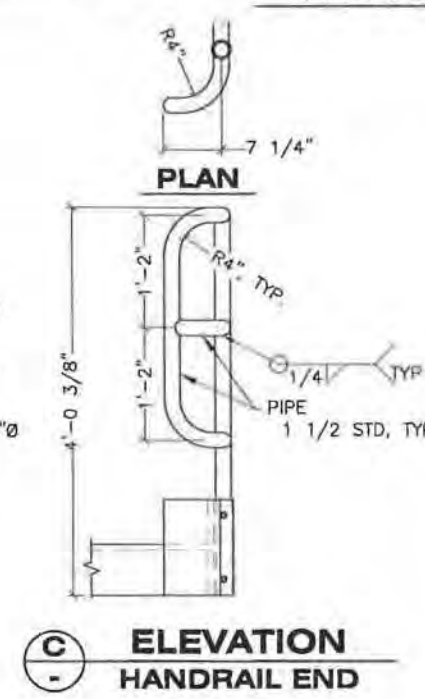
**SECTION**



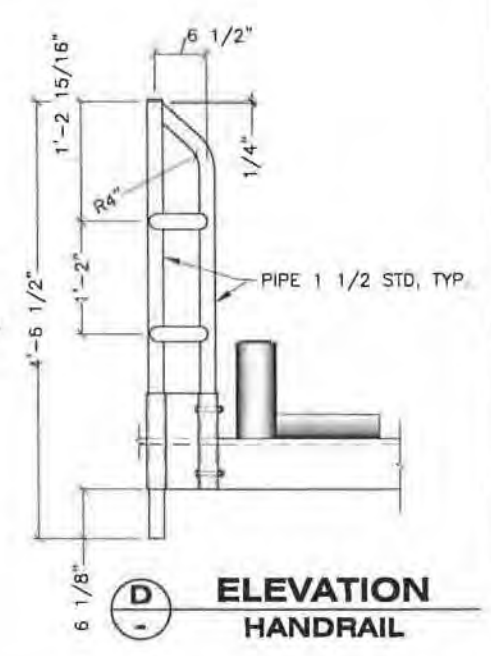
**SECTION F**



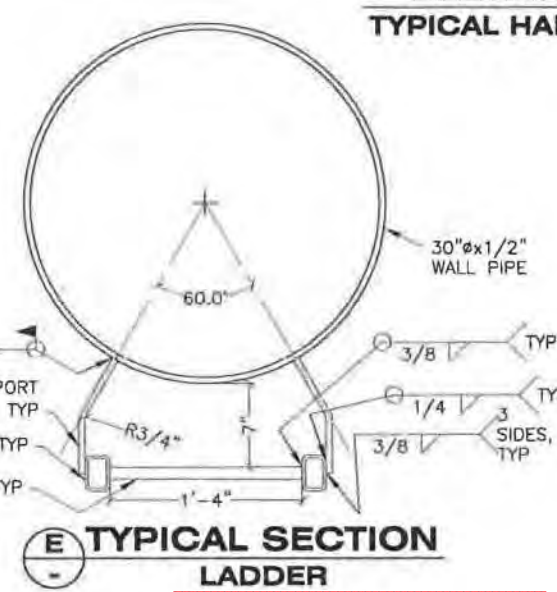
**ELEVATION TYPICAL HANDRAIL**



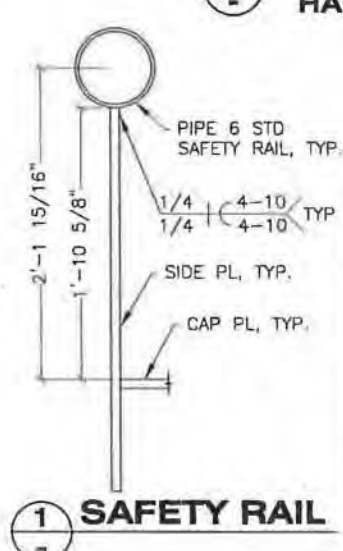
**ELEVATION HANDRAIL END**



**ELEVATION HANDRAIL**



**TYPICAL SECTION LADDER**



**SAFETY RAIL**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS, IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL  
 CHECKED BY: K. MILLER  
 DRAWN BY: STAFF  
 DATE: 1.24.14

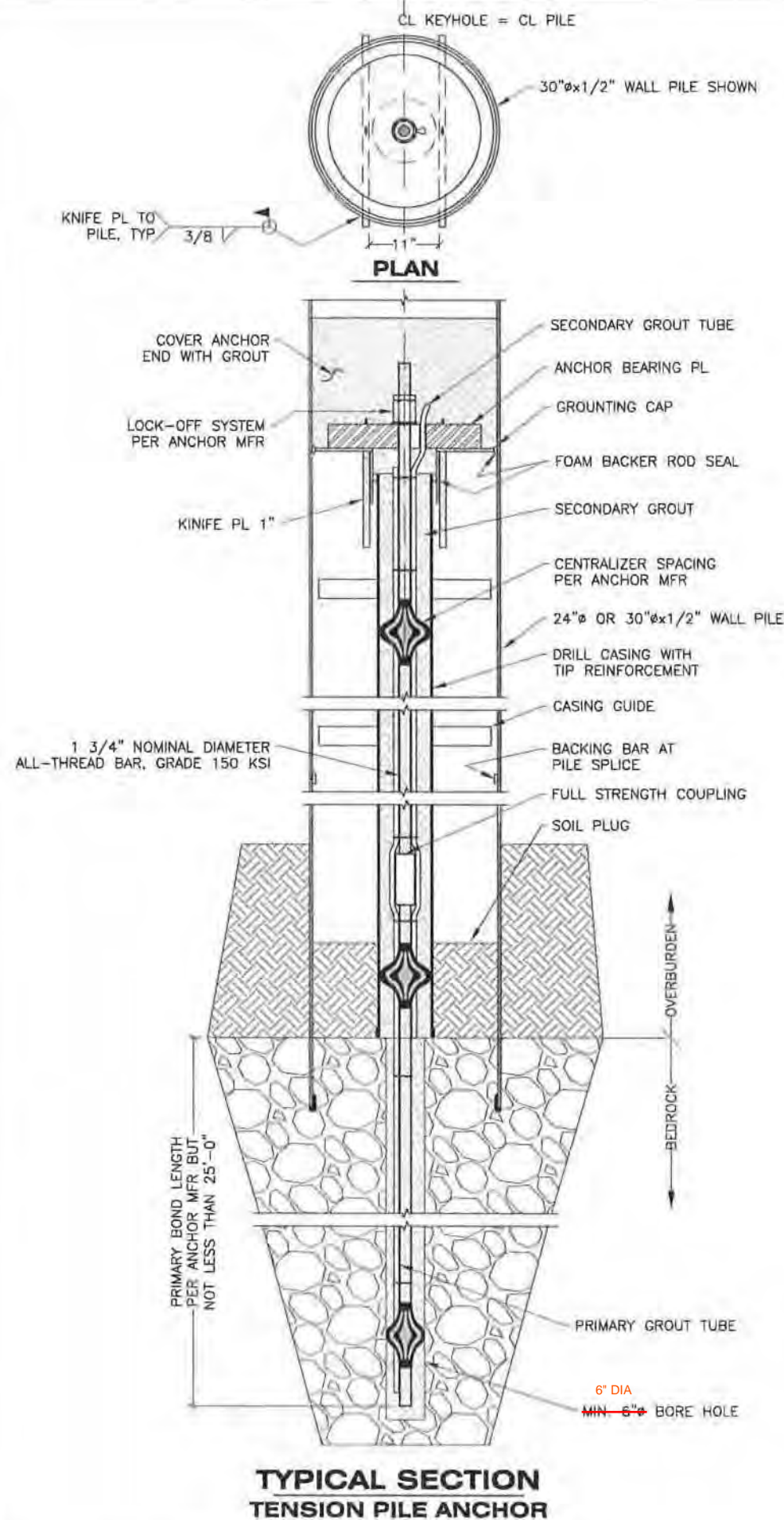
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**HAINES FERRY TERMINAL IMPROVEMENTS PLANSET B**

**LADDERS & RAILINGS DOLPHINS W3-W6**

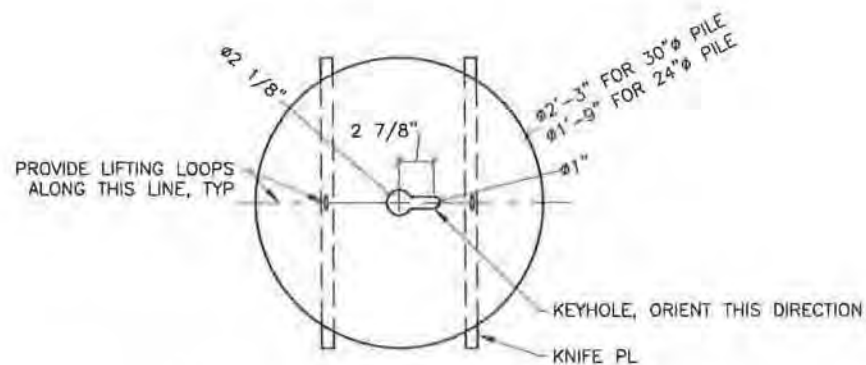
PATH: Q:\HNS\68433\PLANSET\MF\PLANSET B\B11 4-FILE LADDERS & RAILING DWG			Friday, January 24, 2014 11:56:27 AM		LOWELL, DAVID H (DOT)
TAB: 11			PROJECT DESIGNATION	YEAR	SHEET NO.
NO. DATE DESCRIPTION			68433 / 0955014	2014	11
			TOTAL SHEETS		19

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

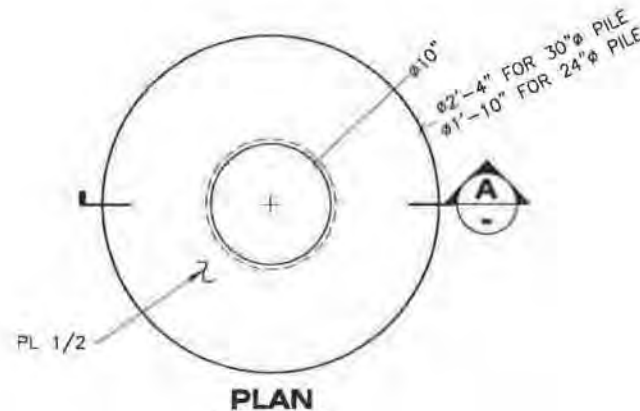
PE *K. Miller* Date 12/13/16



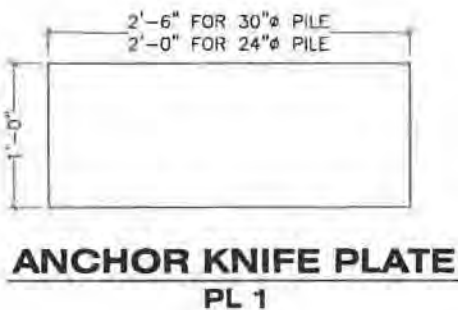
**TYPICAL SECTION  
TENSION PILE ANCHOR**



**ANCHOR BEARING PL  
PL 3**



**SECTION  
GROUTING CAP**



**ANCHOR KNIFE PLATE  
PL 1**

**ROCK ANCHOR NOTES**

**GENERAL**

- REFER TO SECTION 518 OF THE SPECIAL PROVISIONS FOR ADDITIONAL TENSION PILE REQUIREMENTS.
- ANCHORING DETAILS AND METHODS SHOWN ARE A SUGGESTED PROCEDURE. METHODS OR MATERIALS MAY BE MODIFIED AT THE REQUEST OF THE CONTRACTOR - IF APPROVED BY THE ENGINEER IN ADVANCE OF CONSTRUCTION.

**MATERIALS & SPECIFICATIONS**

- ANCHOR RODS SHALL BE ALL-THREAD BAR PER ASTM A-722 & ASTM A-615, GRADE 150 KSI AS MANUFACTURED BY WILLIAMS FORM ENGINEERING CORPORATION OR APPROVED EQUAL. COUPLINGS SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE STRENGTH OF THE BAR. ANCHOR RODS SHALL BE EQUIPPED WITH POLYETHYLENE CENTRALIZERS TO ENSURE THE ANCHOR ROD IS CENTERED IN THE CASING AND DRILLED HOLE.
- STEEL ANCHOR BEARING AND KNIFE PLATES SHALL BE ASTM A572, GRADE 50.
- PRIMARY AND SECONDARY GROUT MIXTURES SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE ANCHOR ROD SYSTEM MANUFACTURER. SUBMIT GROUT MIXTURE DESIGNS TO THE ENGINEER FOR APPROVAL PRIOR TO START OF WORK. ALTERNATELY CONTRACTOR MAY USE PRE-MIXED, PRE-PACKAGED GROUT.
- PRIMARY AND SECONDARY GROUT TUBE SYSTEMS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE ANCHOR ROD MANUFACTURERS RECOMMENDATIONS FOR THE SELECTED GROUT MIXTURE AND GROUT PUMP.

**SUGGESTED INSTALLATION PROCEDURE**

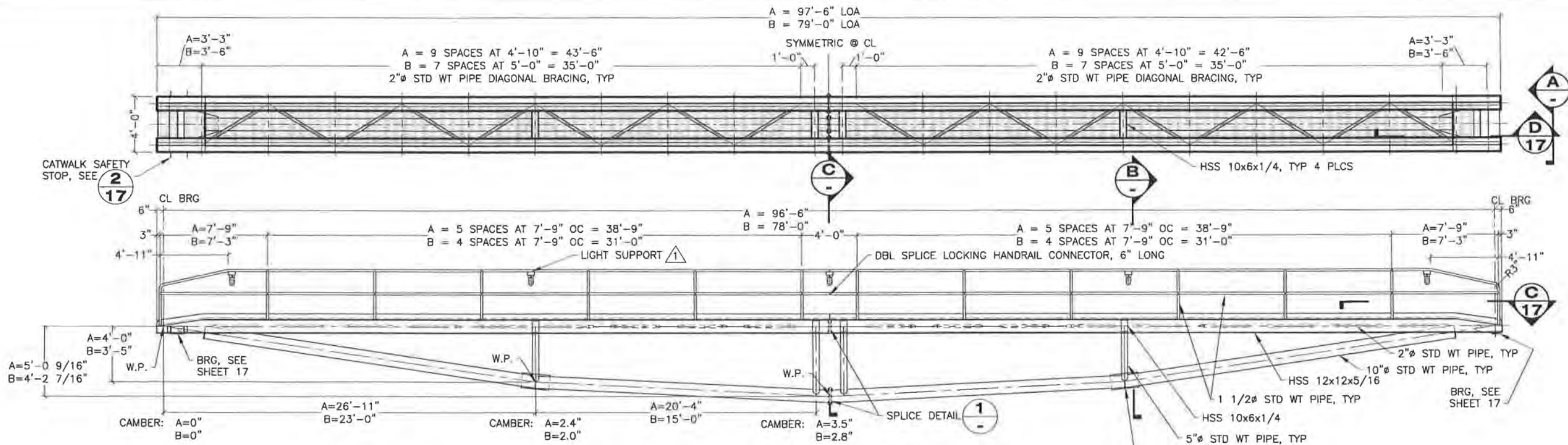
- DRIVE PILES TO PRACTICAL REFUSAL AND SEAT ALL PILES INTO COMPETENT BEDROCK. AFFIX CAP TO PILES.
- DRIVE CASING TO SURFACE OF BEDROCK.
- DRILL THROUGH CASING AND INTO BEDROCK TO THE APPROVED DEPTH. CLEAN HOLE BY FLUSHING WITH WATER AND AIR.
- INSTALL KNIFE PLATE SUPPORTS AND GROUTING CAP.
- PLACE ANCHOR ROD WITH PRIMARY AND SECONDARY GROUT TUBES ATTACHED INTO CASING/DRILLED HOLE.
- INJECT PRIMARY GROUT FROM THE BOTTOM OF THE HOLE TO THE TOP TO ENSURE COMPLETE COVERAGE. GROUT TUBE SHALL REMAIN FIXED TO THE ANCHOR AND NOT WITHDRAWN DURING GROUTING. MEASURE GROUT VOLUME TO ENSURE ANCHOR IS COVERED FOR THE DESIGN PRIMARY BOND LENGTH. ALLOW GROUT TO CURE UNDISTURBED TO THE SPECIFIED TEST STRENGTH.
- PLACE ANCHOR BEARING PLATE AND CONDUCT PERFORMANCE OR PROOF TESTS IN ACCORDANCE WITH SECTION 518 OF THE SPECIAL PROVISIONS. THE DESIGN LOAD (DL) USED IN THE TEST PROCEDURE SHALL BE 60% OF THE ULTIMATE UPLIFT RESISTANCE SHOWN IN THE PILE DATA TABLE. AT THE COMPLETION OF TESTING, REDUCE TENSION TO THE DESIGN LOAD AND TRANSFER LOAD TO THE BEARING PLATE BY TIGHTENING THE NUT.
- AFTER ANCHOR HAS BEEN ACCEPTED BY THE ENGINEER, PLACE SECONDARY GROUT AND ANCHORAGE GROUT OR CONCRETE COVER.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

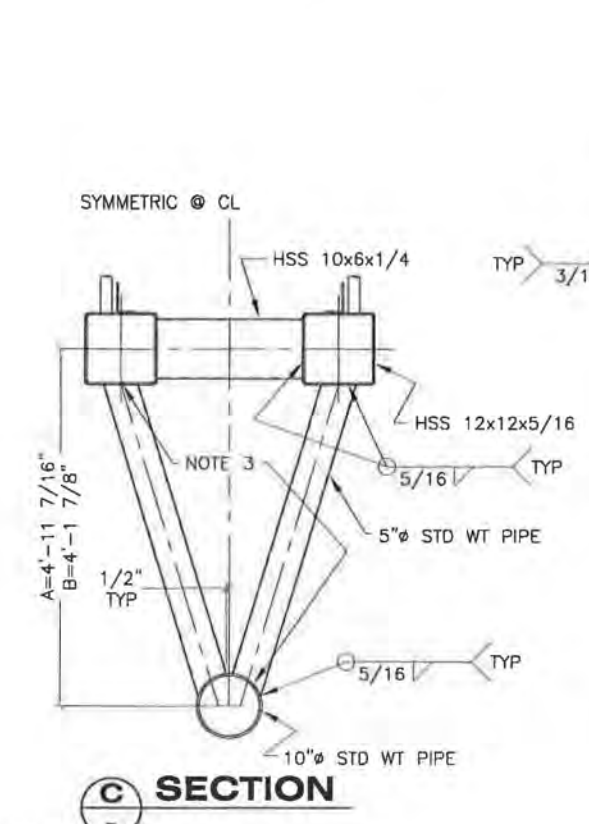
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	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET B</b>	
CHECKED BY: K. MILLER	<b>TENSION PILE ANCHOR</b>	
DRAWN BY: STAFF	TUESDAY, JANUARY 21, 2014 4:39:39 PM LOWELL, DAVID H (DOT)	
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TAB: 14	68433 / 0955014	2014
REVISIONS	NO	DATE
	DESCRIPTION	TOTAL SHEETS
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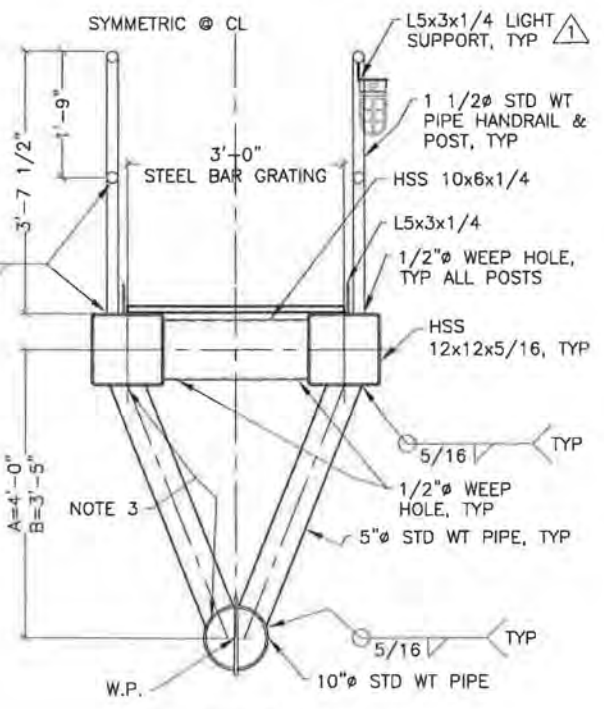




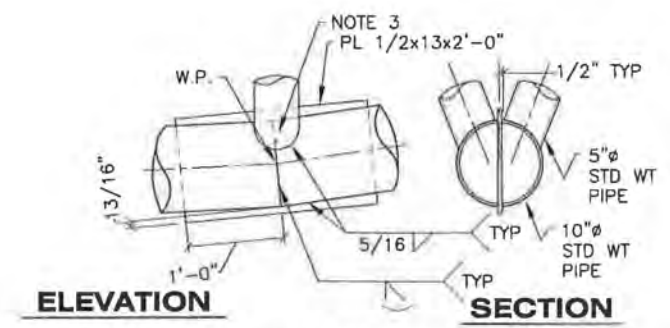
**PLAN/ELEVATION  
CATWALK**



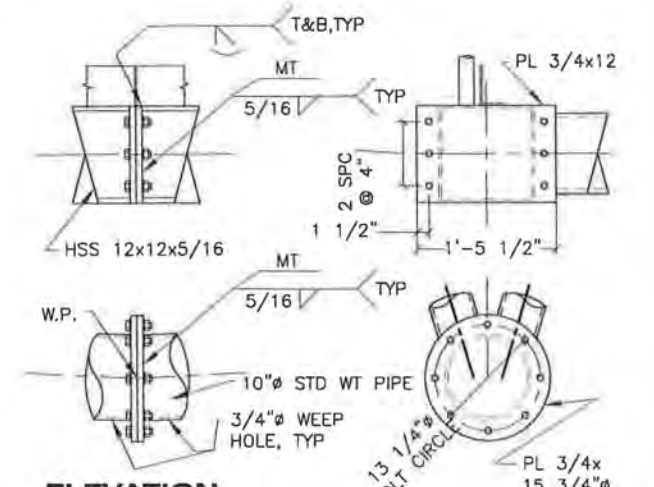
**C SECTION**



**B SECTION**

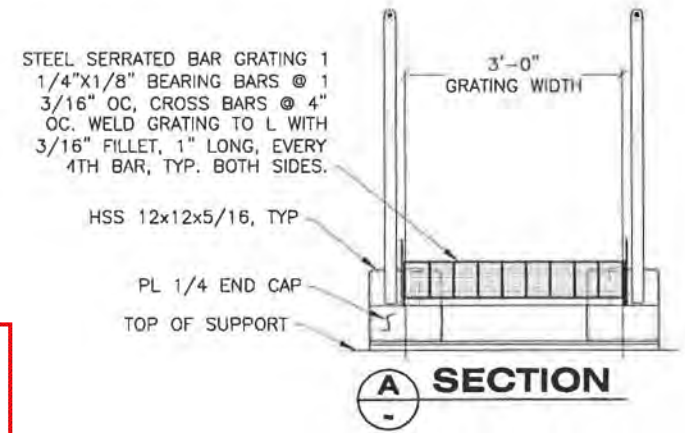


**2 DETAIL  
JOINT**



**1 DETAIL  
SPLICE**

NOTE:  
3/4" A325 BOLTS WITH LOAD INDICATING WASHER (HEAD) & STD WASHER (NUT), TYP BOLTED SPLICES



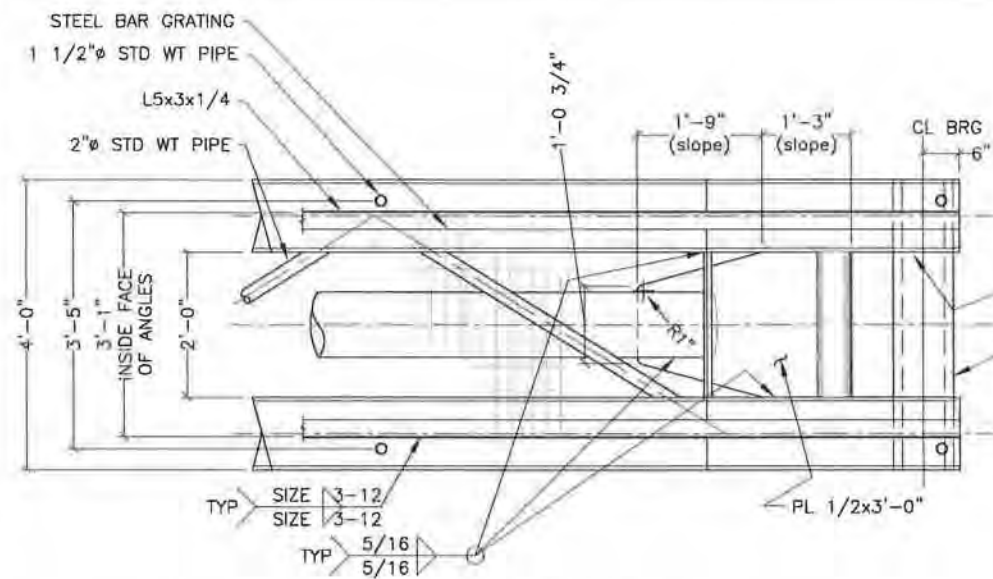
**A SECTION**

- NOTES:
- DIMENSIONS:  
A = 95' LONG CATWALK  
B = 79' LONG CATWALK
  - APPROXIMATE WEIGHTS:  
95' CATWALK = 19,500 LBS  
79' CATWALK = 15,750 LBS
  - SUPPORT AND LIFT CATWALK ASSEMBLY AT BEARINGS ONLY. ALTERNATE LIFT POINTS SHALL BE DESIGNED BY LICENSED ENGINEER; SUBMIT COMPUTATIONS FOR REVIEW.
  - PROVIDE 1/2" WEEP HOLES IN THE CHORDS WHERE THE WEBS AND CORDS OVERLAP.
  - COORDINATE SHOP INSTALLATION OF LIGHT SUPPORTS WITH ELECTRICAL PLANSET E.

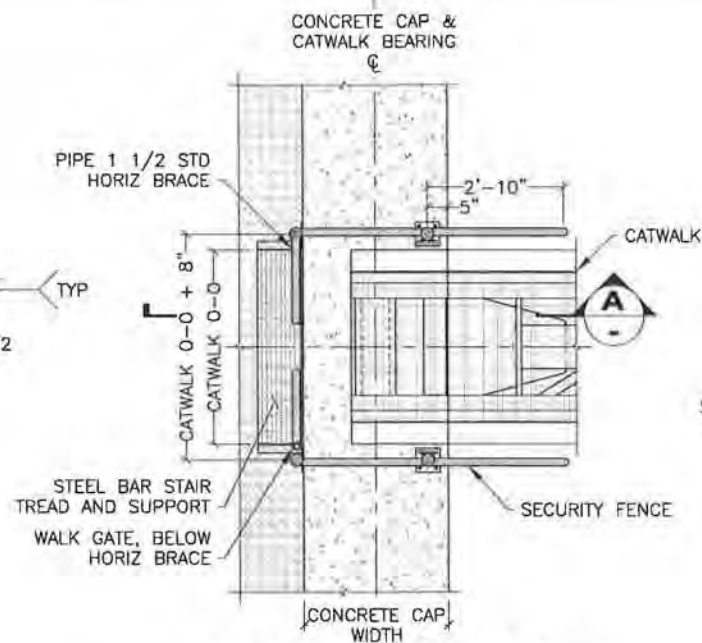
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

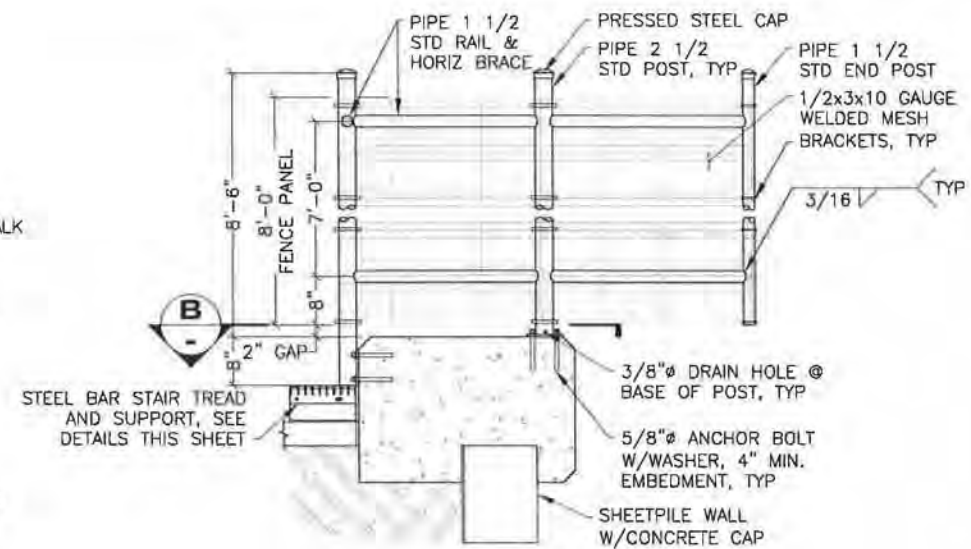
DESIGNED BY: D. LOWELL	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SUII/HEAST REGION	
CHECKED BY: K. MILLER	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET B	
DRAWN BY: STAFF	79' & 97' CATWALKS	
PATH: Q:\HNS\68433\PLANSET\WF\PLANSET B\B16 - 79' & 95' CATWALK_R1.DWG	PROJECT DESIGNATION	YEAR
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NO.	DATE	DESCRIPTION
1	4/4/14	CATWALK REV
68433 / 0955014		TOTAL SHEETS
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		19



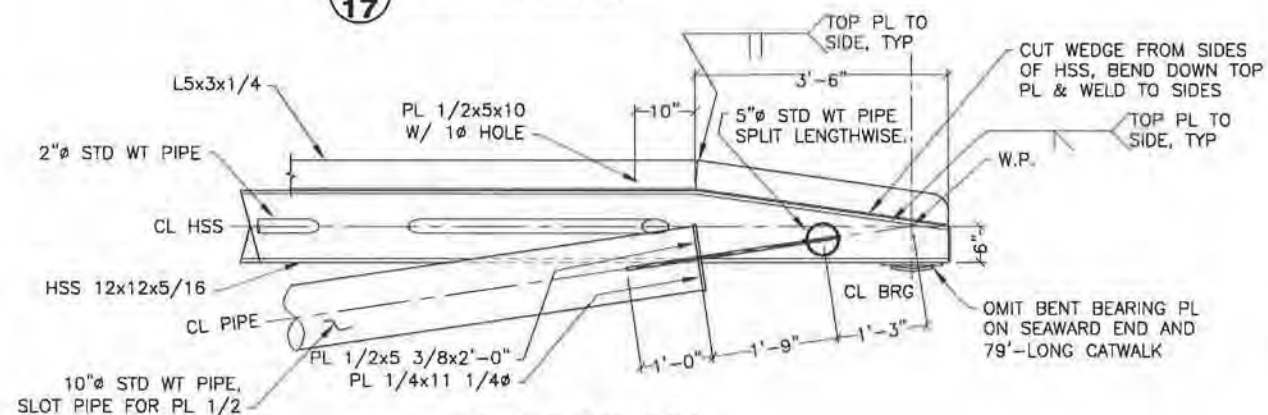
**(C) PLAN VIEW**  
**17**



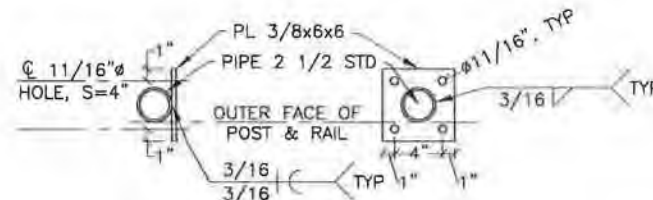
**(1) PLAN VIEW**  
**17 CATWALK FENCE & GATE**



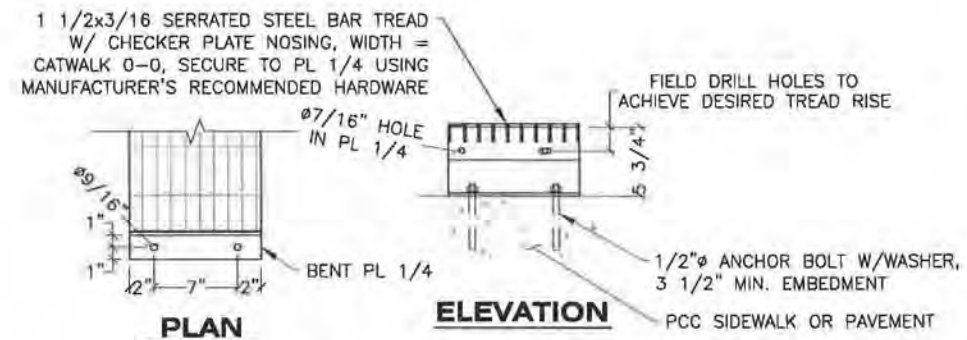
**(A) SECTION**



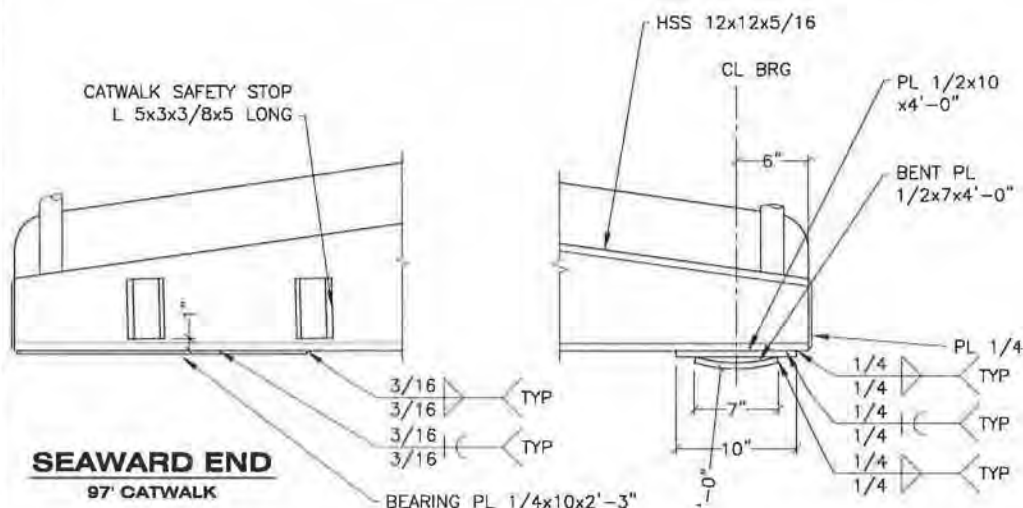
**(D) SECTION**  
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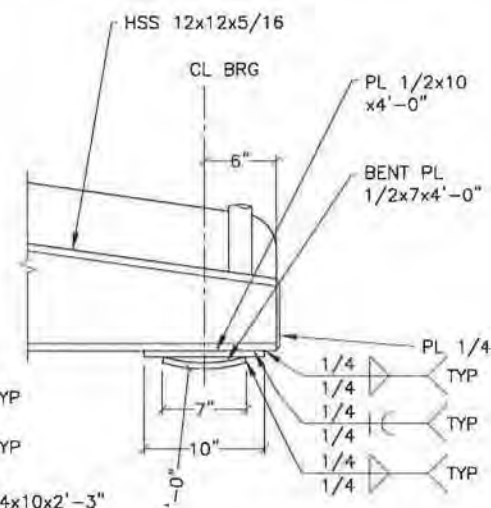
**(B) SECTION**



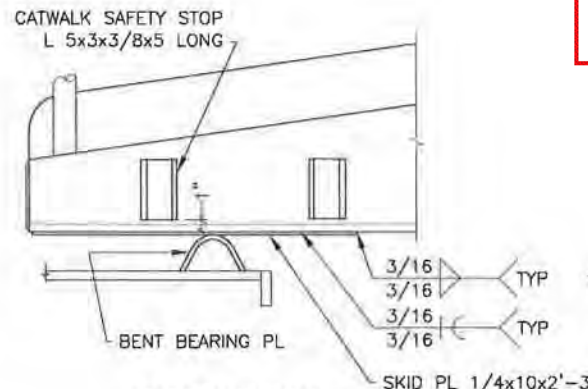
**DETAILS**  
**STEEL BAR TREAD AND SUPPORT**



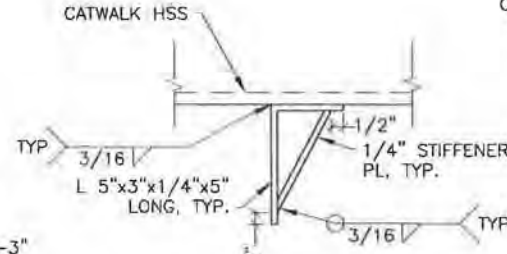
**SEAWARD END**  
**97' CATWALK**



**SHOREWARD END**  
**97' CATWALK**



**BOTH ENDS**  
**79' CATWALK**




**(2) SAFETY STOP**  
**17**

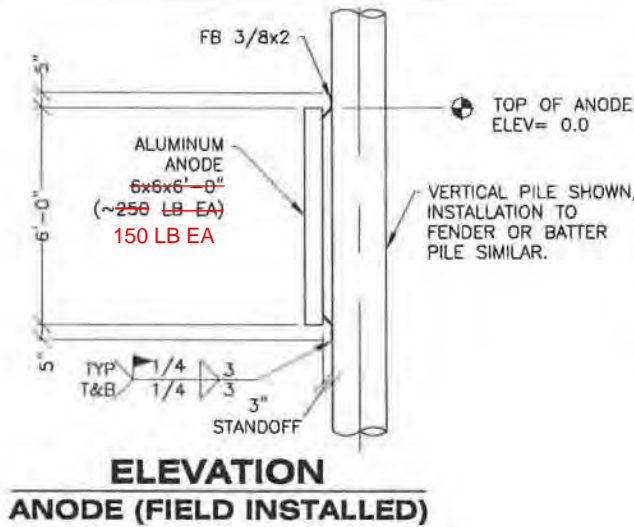
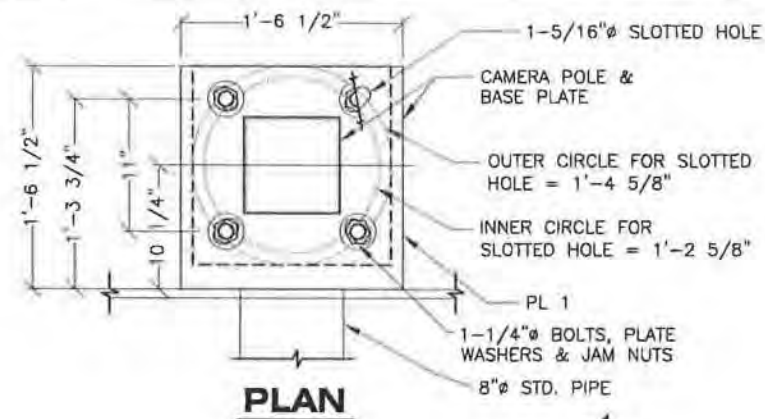
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

**NOTES:**

- SEE SHEET 33 OF PLANSET A AND STANDARD DRAWINGS F-01.01 & F-03.01 FOR FENCE AND GATE DETAILS NOT SHOWN.
- THE CONTRACTOR SHALL VERIFY EXISTING FIELD DIMENSIONS PRIOR TO ORDERING FENCING MATERIALS.
- THE CONTRACTOR SHALL PRODUCE 1-FOOT OF 3/8" GALV. CHAIN AND KEYED PADLOCK FOR EACH GATE. PADLOCK SHALL BE ALL-WEATHER COMMERCIAL GRADE BRUSHED BRASS ABUS 831C/50 MODEL OR APPROVED EQUAL. LOCKS SHALL HAVE CYLINDERS WITH SEVEN-PIN TUMBLERS AND REMOVABLE CORES WITH 'E' KEY WAY. PROVIDE FOUR COPIES OF KEYS TO HAINES TERMINAL MANAGER. SEE VOLUME II OF THE SPECIFICATIONS FOR COORDINATION WITH AMHS.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

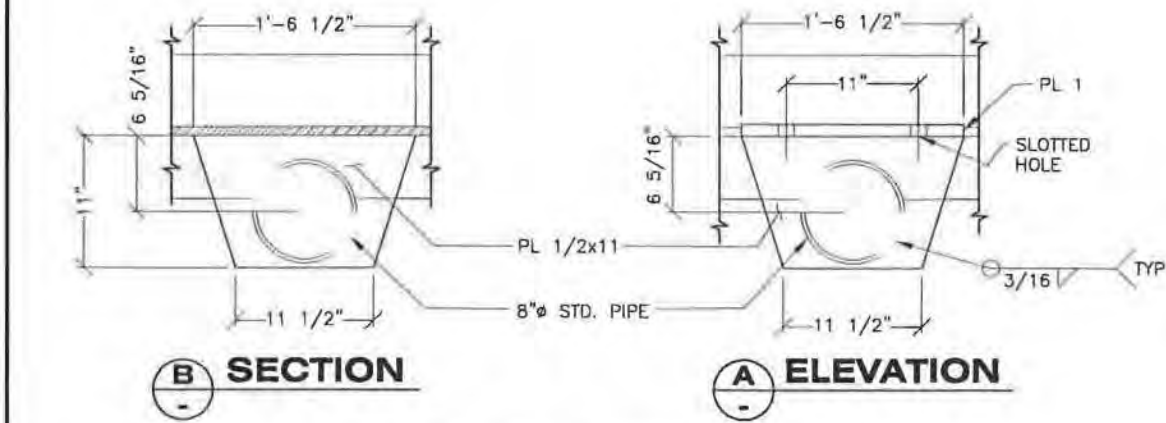
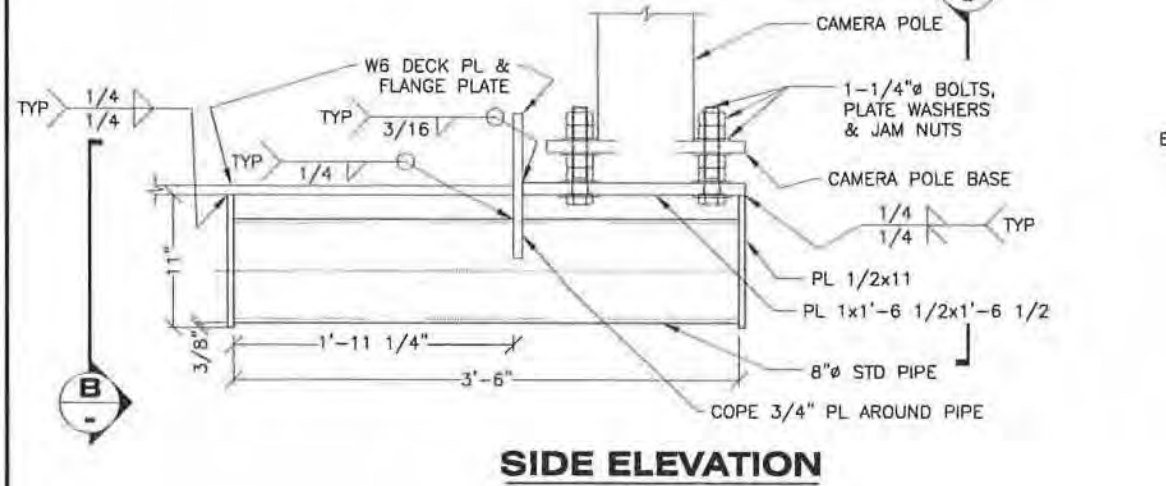
DESIGNED BY: D. LOWELL		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET B</b>	
CHECKED BY: K. MILLER		<b>CATWALK DETAILS</b>	
DRAWN BY: STAFF		TUESDAY, JANUARY 28, 2014 2:44:25 PM	
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REVISIONS		SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	17
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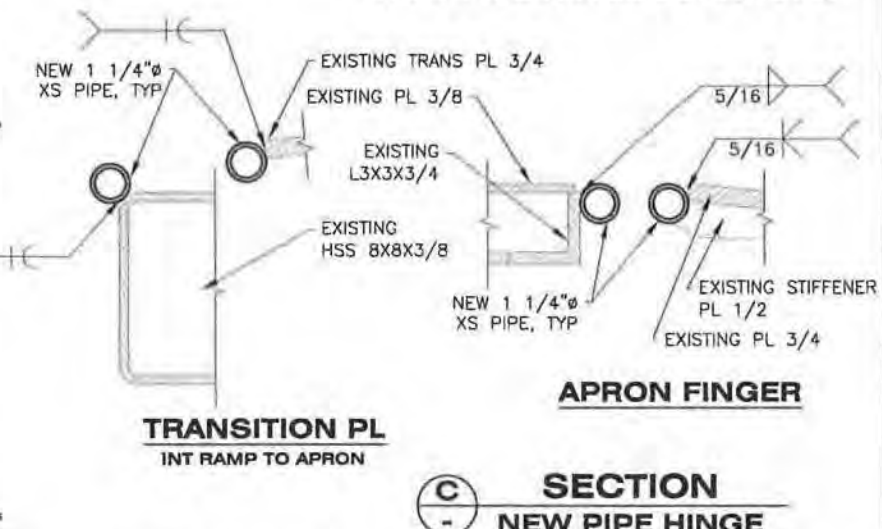
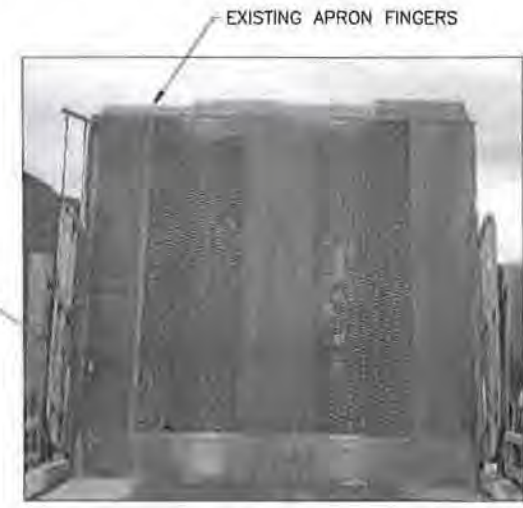
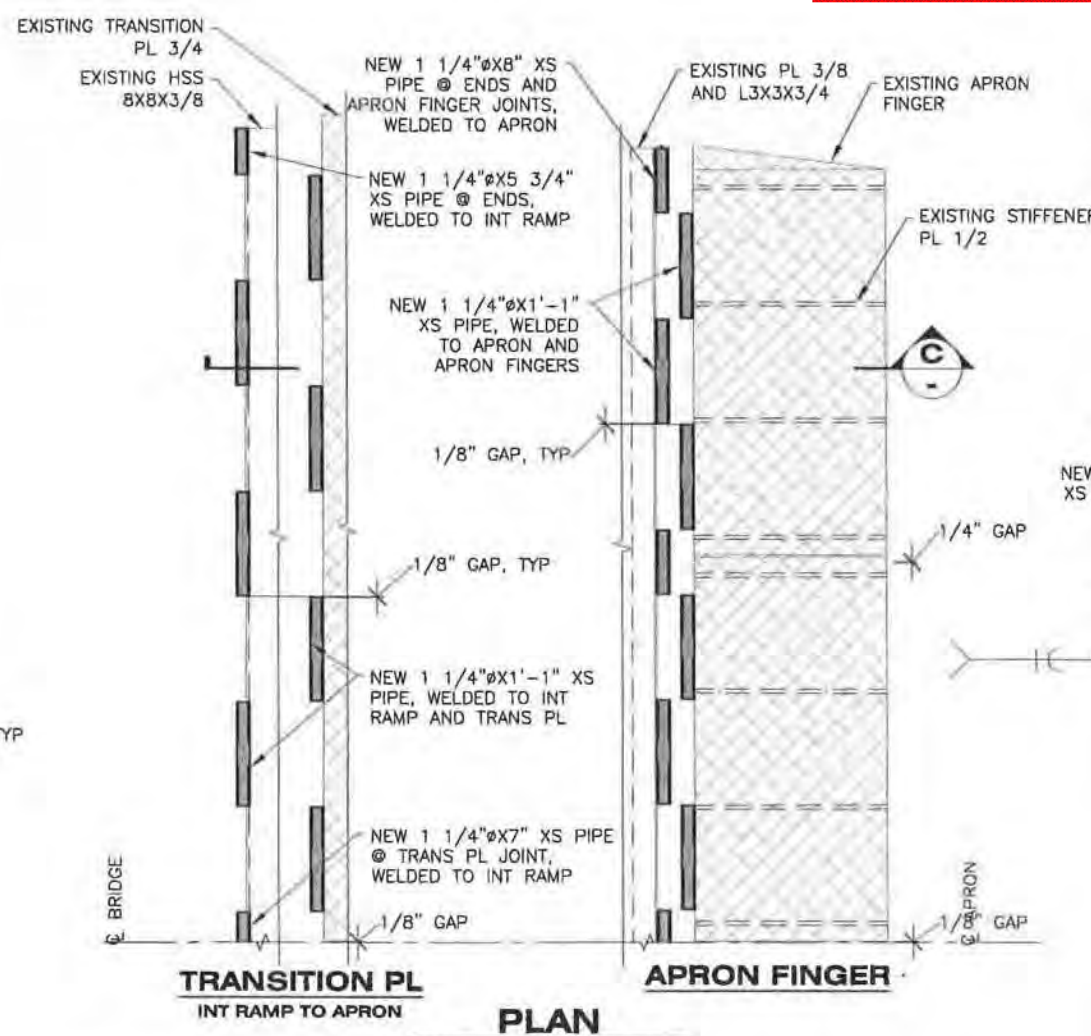
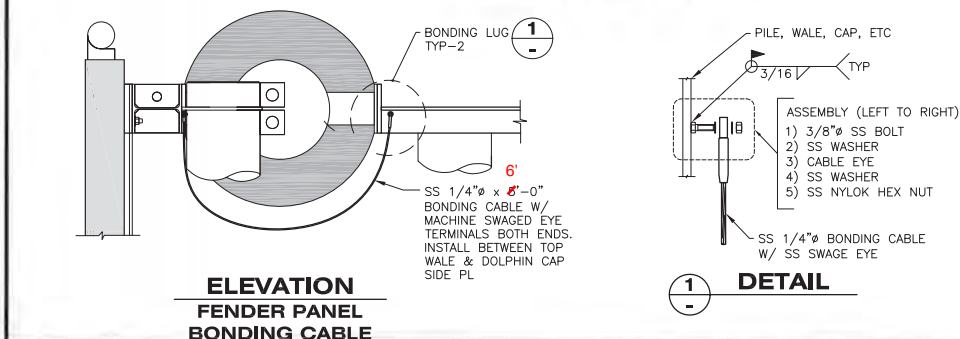
**ANODE NOTES:**

1. FIELD WELD ALL NEW ANODES TO EXISTING OR NEW PILES AS INDICATED AND FURTHER OUTLINED BELOW.
2. INSTALL ONE ANODE PER EACH PILE ON NEW MOORING STRUCTURES W3 THROUGH W6. FOUR ANODES TOTAL PER STRUCTURE.
3. INSTALL ONE ANODE PER EACH BACK UP PILE (3 EACH) AND ON EACH OUTBOARD FENDER PILE (2 EACH) ON EXISTING MOORING STRUCTURES W1, E1, AND E2. FIVE ANODES TOTAL PER STRUCTURE.
4. INSTALL ONE ANODE PER EACH PILE ON EXISTING MOORING STRUCTURES W2, E3, AND E4. FOUR ANODES TOTAL PER STRUCTURE.
5. INSTALL ONE ANODE PER EACH PILE ON THE EXISTING BRIDGE LIFT SUPPORT TOWER STRUCTURES B1 AND B2. FOUR ANODES TOTAL PER STRUCTURE.
6. ~~INSTALL ONE ANODE PER EACH PILE ON NEW MOORING STRUCTURE E5. THREE ANODES TOTAL.~~
7. TOTAL FIELD INSTALLED ANODES: 54 EA.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16



**CAMERA POLE ATTACHMENT STRUCTURE W6**



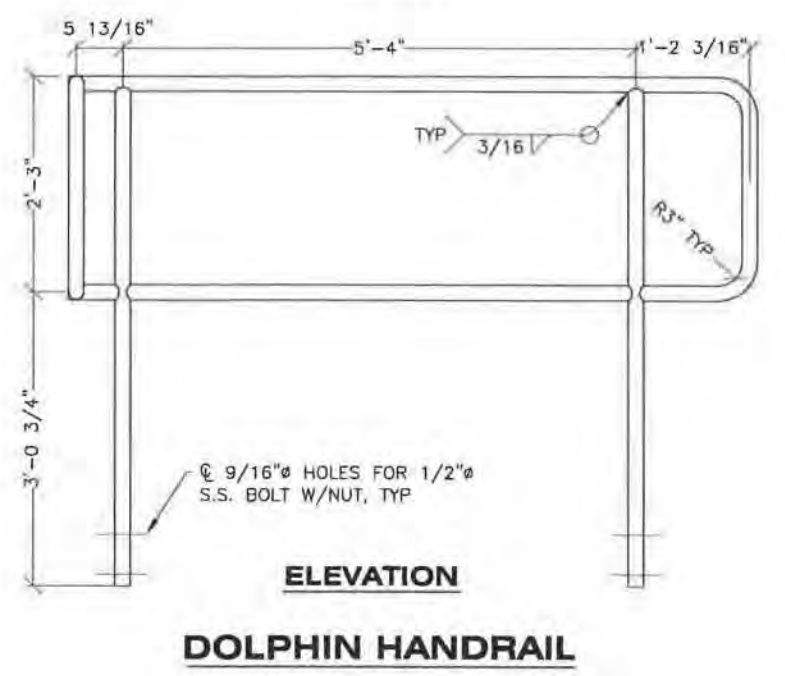
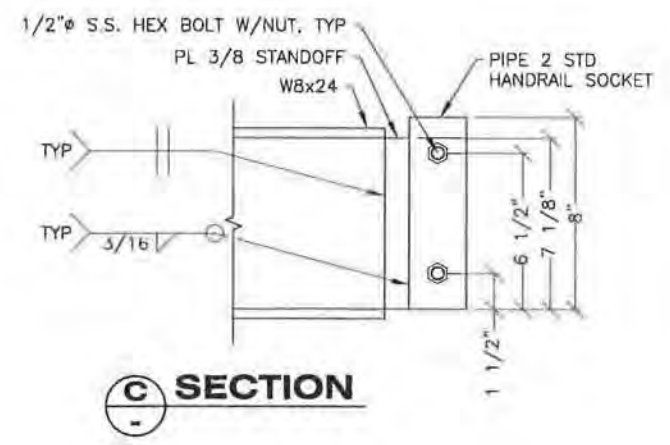
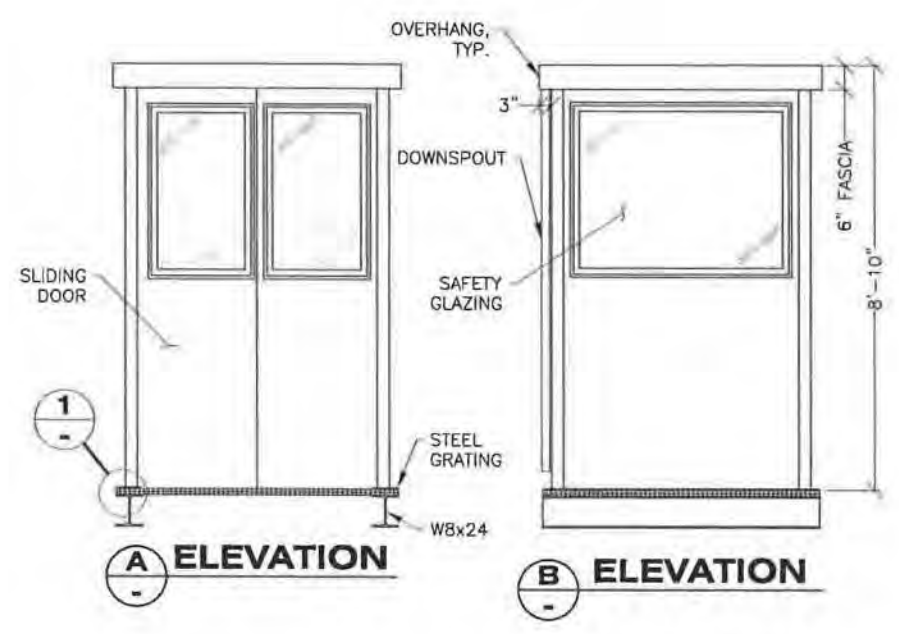
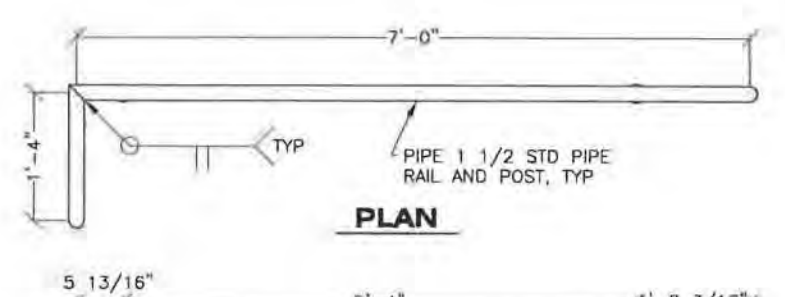
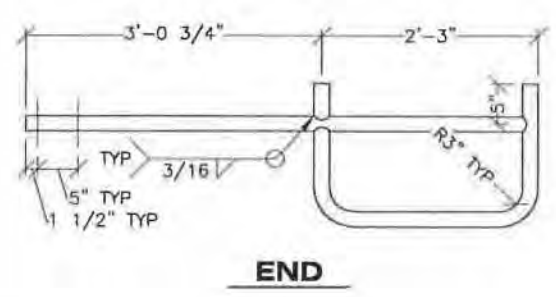
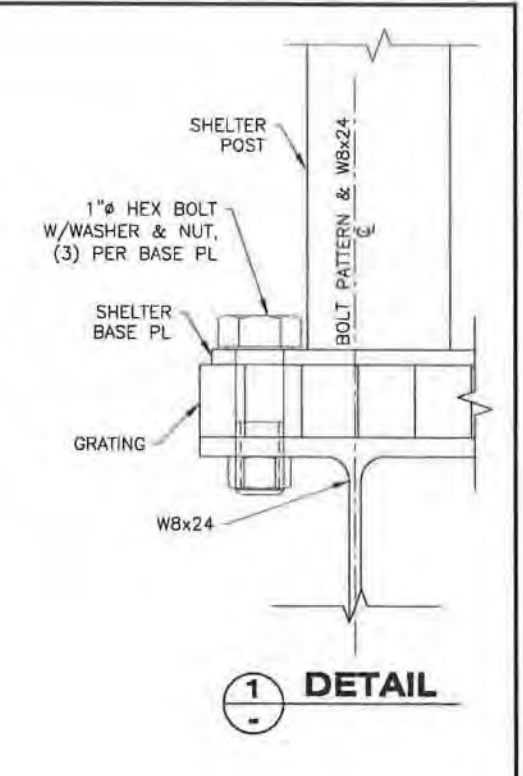
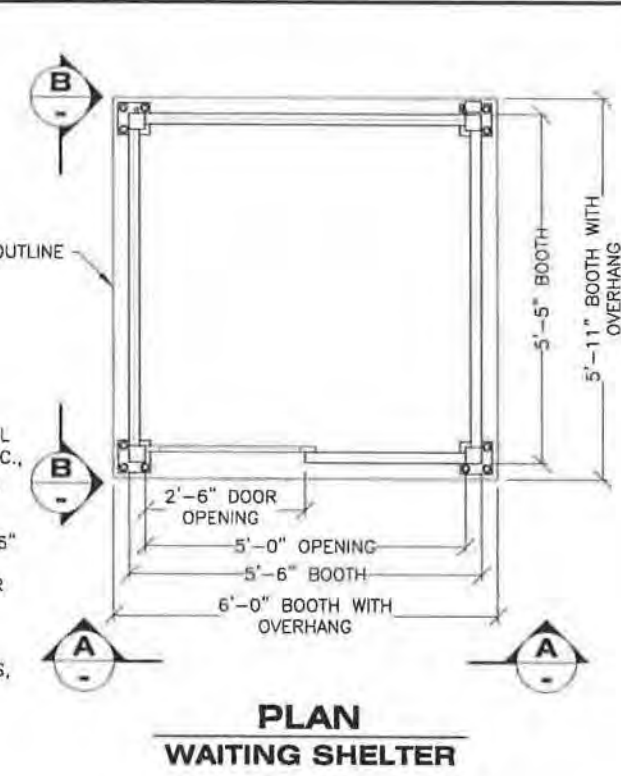
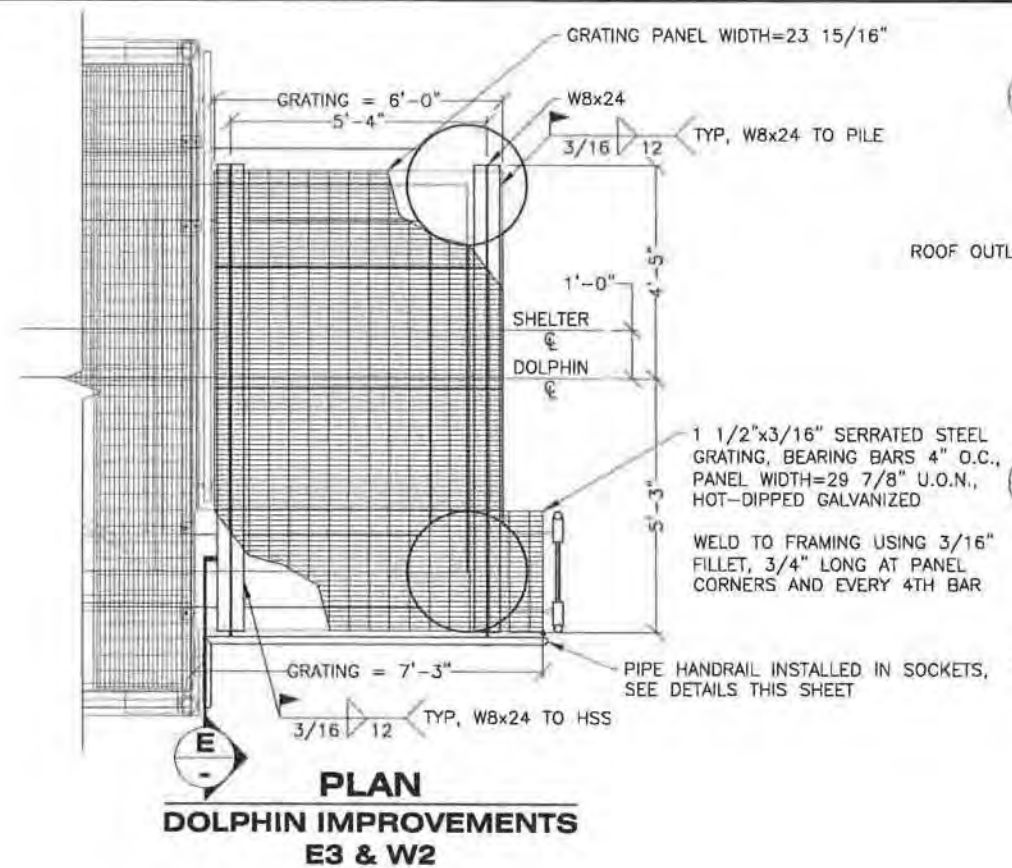
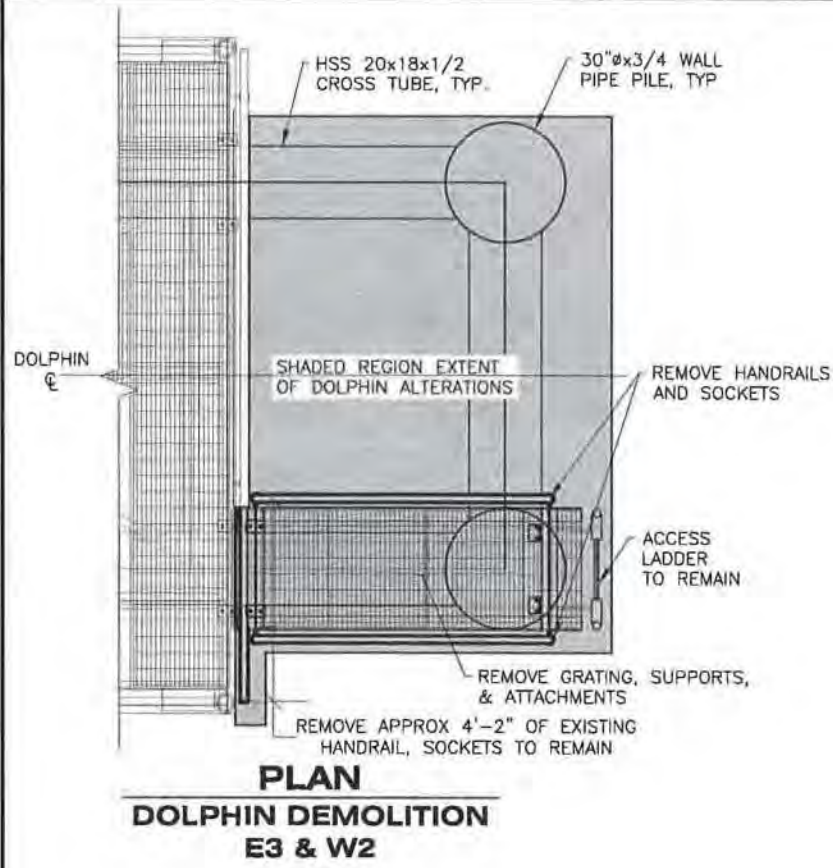
**PIPE HINGE NOTES:**

1. FIELD WELD NEW PIPE HINGES TO EXISTING INTERMEDIATE RAMP AND APRON AS INDICATED ABOVE.
2. MATERIALS FOR NEW PIPE HINGES SHALL MEET ASTM A53 GR B AND BE GALVANIZED AFTER FABRICATION PER SPECS.
3. REPAIR DAMAGED COATINGS ON NEW AND EXISTING MATERIALS PER SECTION 504-3.03.
4. INSTALL NEW 1" Ø HINGE PINS WITH BEVEL, WASHER, AND COTTER PIN AT BOTH ENDS THAT MEET ASTM A108 GR 1016-1030 INCL., Fy = 36KSI, AND ARE OF THE FOLLOWING LENGTHS:  
INT RAMP TO APRON HINGE = 17'-6"  
APRON FINGER HINGE = 16'-9"

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: D. LOWELL  
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION  
HAINES FERRY TERMINAL IMPROVEMENTS PLANSET B  
MISCELLANEOUS DETAILS  
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REVISIONS  
NO. DATE DESCRIPTION  
PROJECT DESIGNATION: 68433 / 0955014  
YEAR: 2014  
SHEET NO.: 18  
TOTAL SHEETS: 19





Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Miller* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

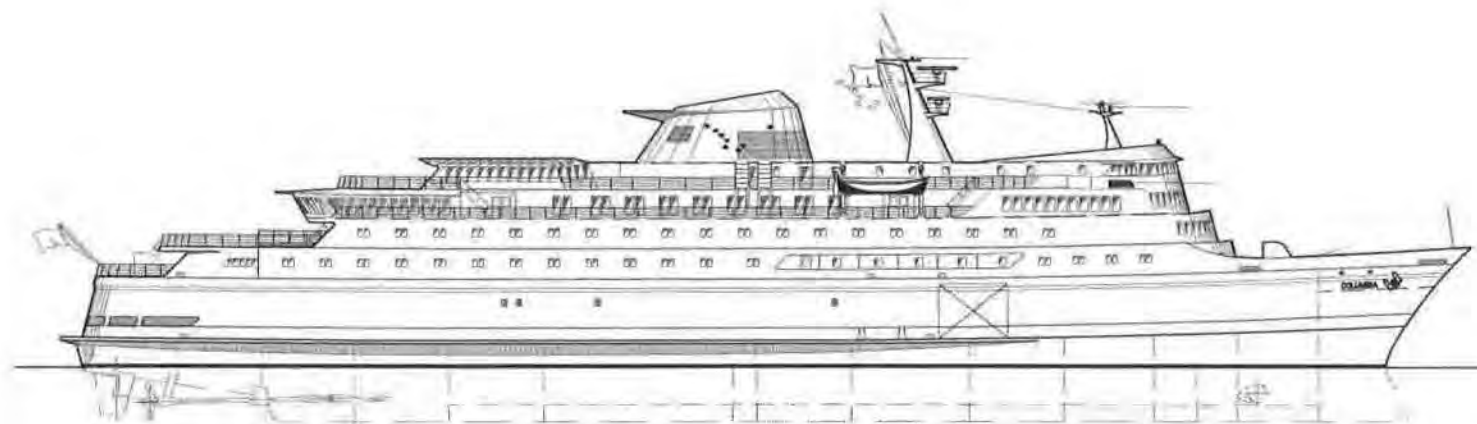
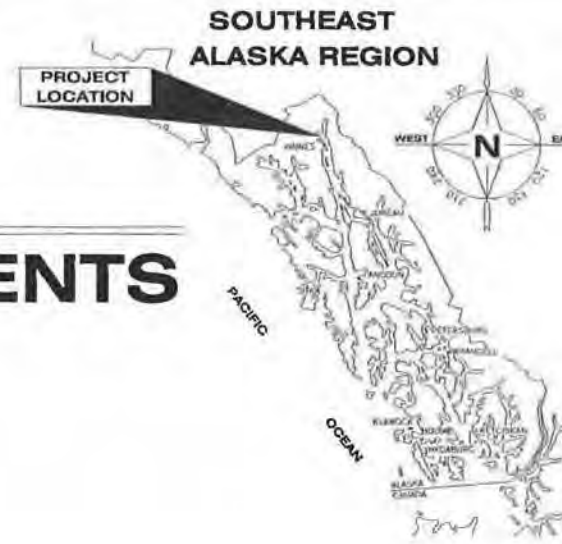
DESIGNED BY: D. LOWELL	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
	<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET B</b>			
	<b>WAITING SHELTER</b>			
CHECKED BY: K. MILLER	Friday, January 24, 2014 12:04:46 PM			
DRAWN BY: STAFF	LOWELL, DAVID H (DOT)			
PATH: Q:\HNS\68433\PLANSET\MF\PLANSET B\619-WAITING SHELTER.DWG	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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NO.	DATE	DESCRIPTION		

# State of Alaska

Department of Transportation & Public Facilities  
SOUTHEAST REGION

## HAINES FERRY TERMINAL IMPROVEMENTS HAINES, ALASKA

PROJECT No. 68433/0955014



### PLANSET C: FERRY TERMINAL STORAGE AND GENERATOR BUILDINGS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

#### SHEET INDEX

SHEET NO.	DESCRIPTION
A1	STORAGE BUILDING FLOOR PLAN
A2	GENERATOR BUILDING FLOOR PLAN
A3	STORAGE BUILDING ELEVATIONS
A4	GENERATOR BUILDING ELEVATIONS
A5	TYPICAL BUILDING SECTION
A5.1	GENERATOR BUILDING SECTION
A6	DETAILS
S1.1	GENERAL STRUCTURAL NOTES
S1.2	STANDARD DETAILS
S2.0	STORAGE BLDG. FOUNDATION PLAN
S2.1	STORAGE BLDG. ROOF PLAN
S2.2	GENERATOR BLDG. FOUNDATION PLAN
S2.3	GENERATOR BLDG. ROOF PLAN
S3.0	DETAILS
M1	MECH. FLOOR PLAN STORAGE BLDG
M2	MECH. FLOOR PLAN GENERATOR BLDG

REFERENCE PLANSET E FOR BUILDING ELECTRICAL

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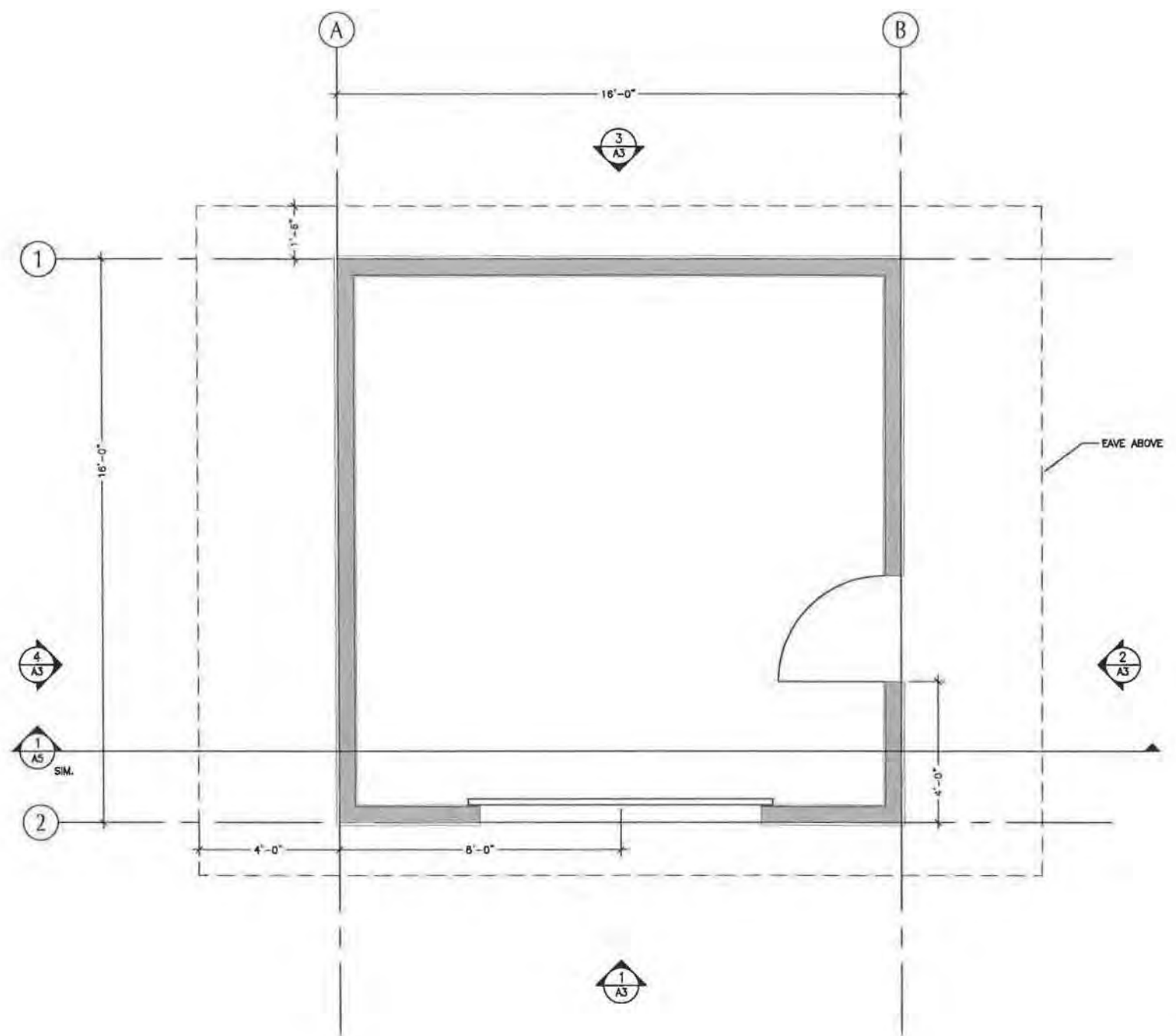
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PLOT: PSPACE OR MSPACE; 1=1(F)

**STATE OF ALASKA**  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68433/0955014	2013	A0	17




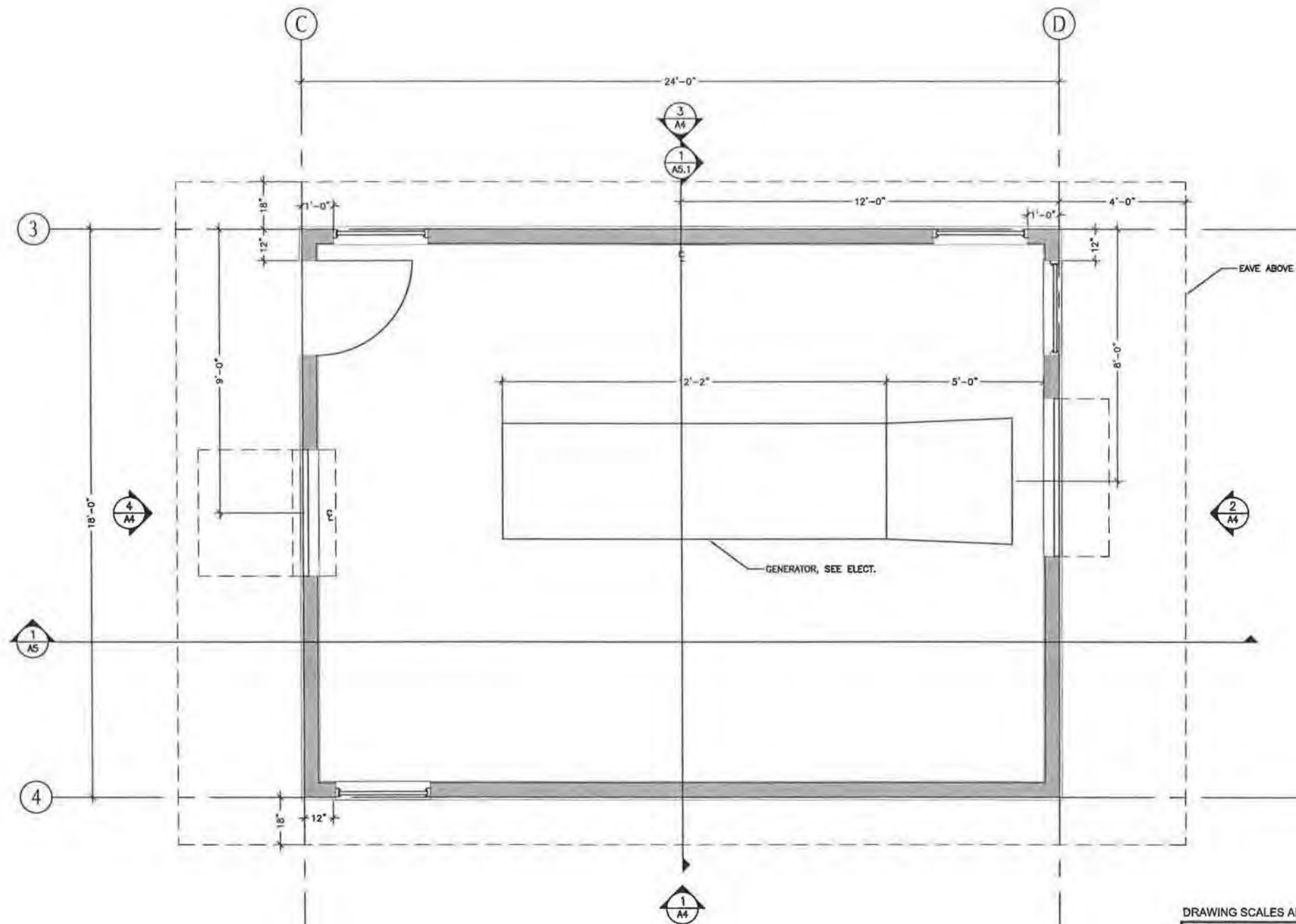
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

1 STORAGE BUILDING PLAN  
Scale: 1/2" = 1'-0"

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b> <b>STORAGE BUILDING          FLOOR PLAN</b>																						
CHECKED BY: CW DRAWN BY: VL																								
PATH: TAB: LAYOUT1 Nov. 13, 2013																								
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																			
NO.	DATE	DESCRIPTION																						



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

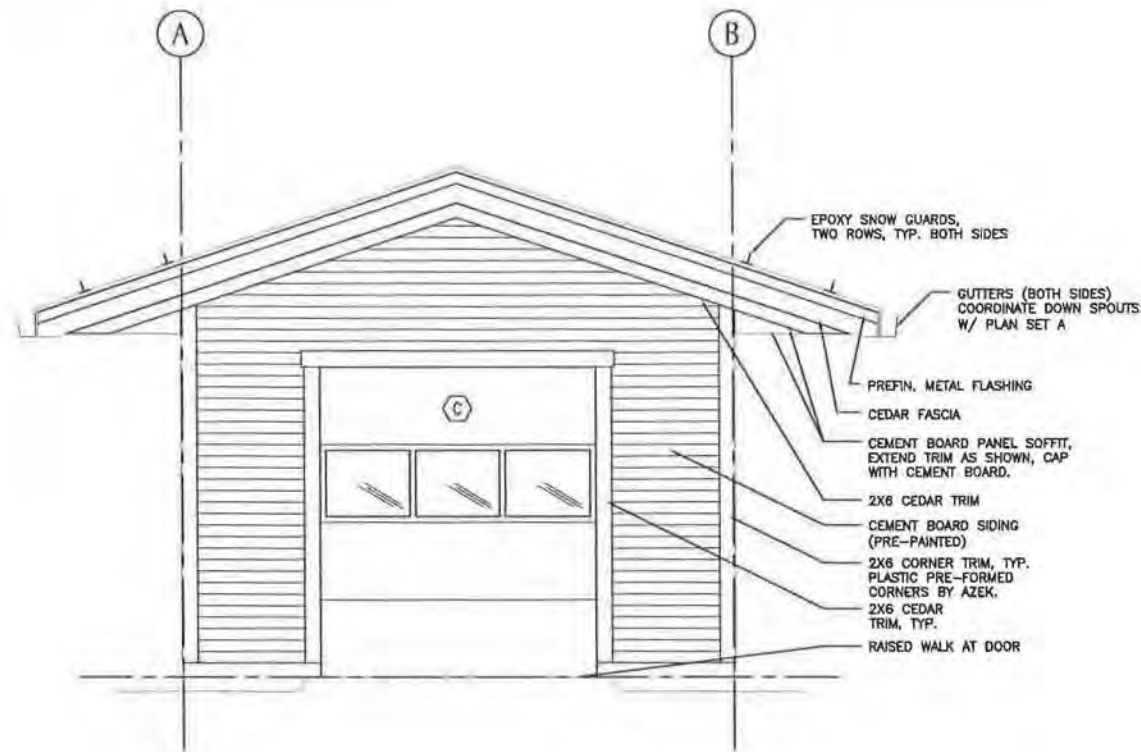
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET C</b>			
GENERATOR BUILDING FLOOR PLAN				
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DRAWN BY: VL				
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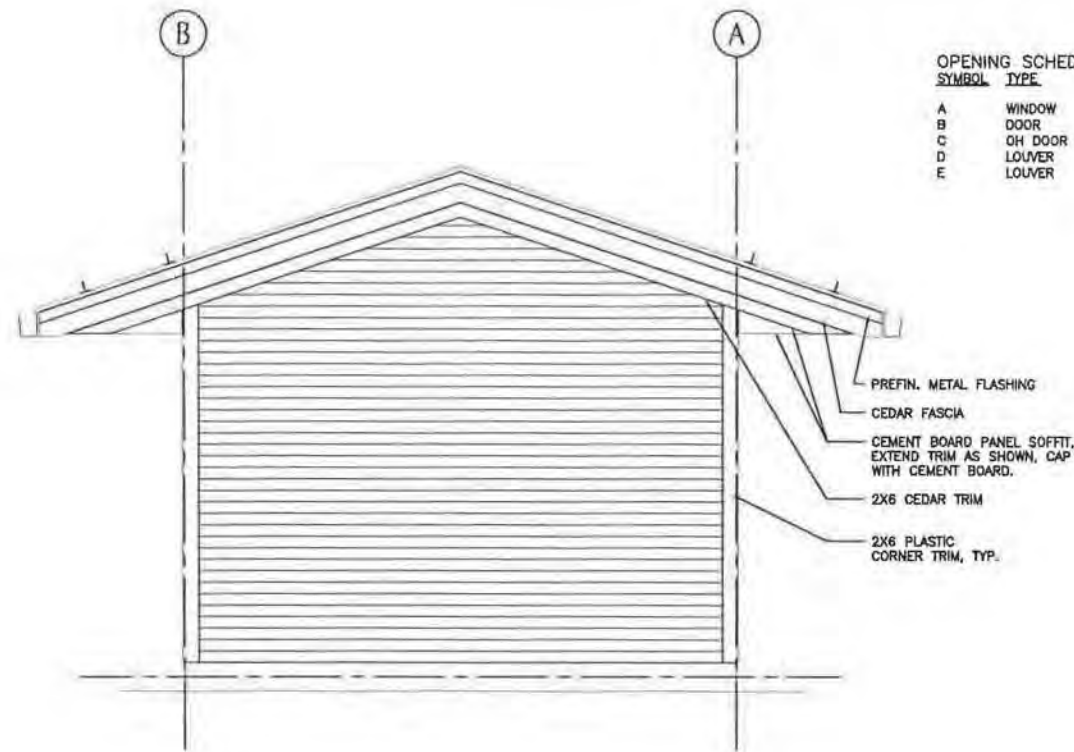
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NO.	DATE	DESCRIPTION				
			68433 / 0955014	2013	A2	17

1 GENERATOR BUILDING PLAN  
Scale: 1/2" = 1'-0"



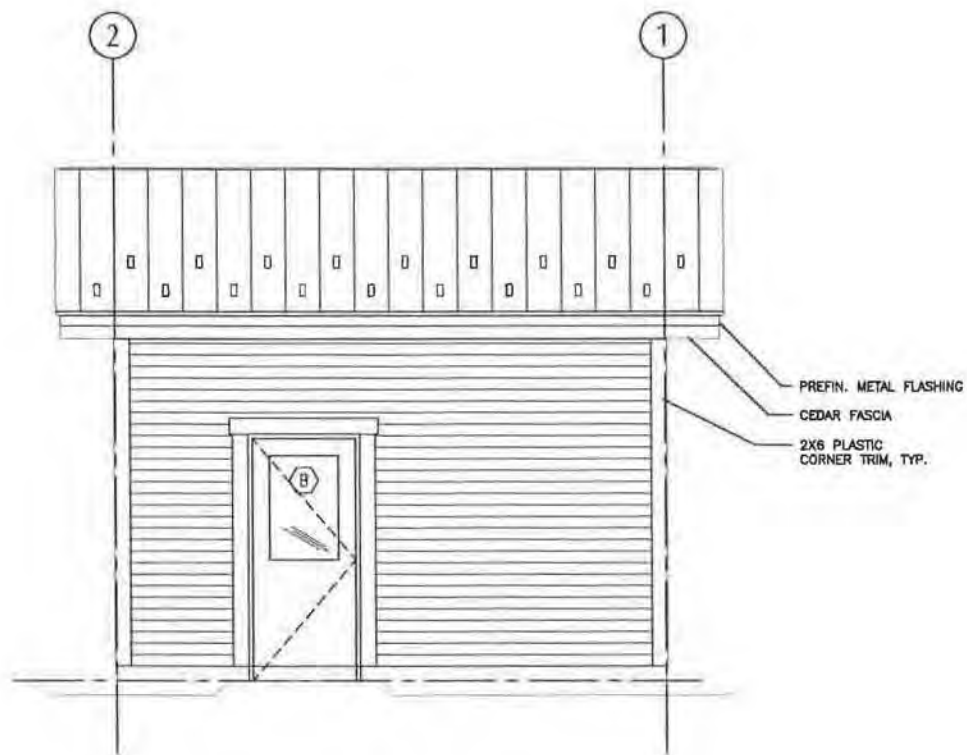


① STORAGE BUILDING – SOUTH ELEVATION  
Scale: 3/16" = 1'-0"

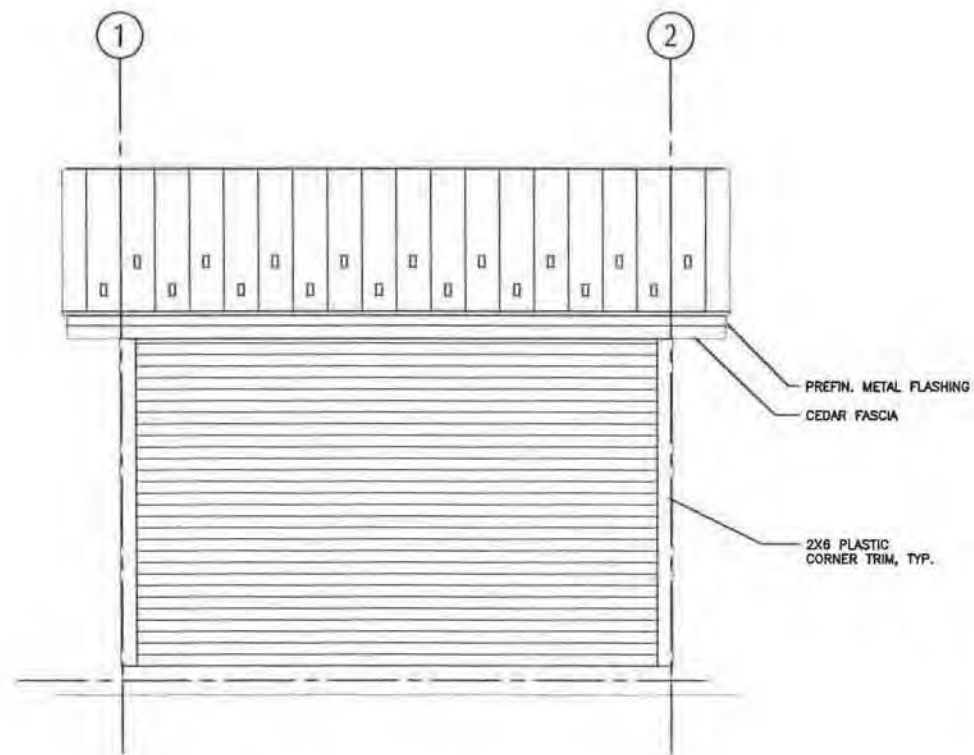


③ STORAGE BUILDING – NORTH ELEVATION  
Scale: 3/16" = 1'-0"

OPENING SCHEDULE					DETAILS		
SYMBOL	TYPE	R.O. WIDTH	R.O. HEIGHT	HEAD HT.	HEAD	JAMB	SILL
A	WINDOW	3'-0"	4'-0"	7'-0"	1/A6	2/A6	3/A6
B	DOOR	AS REQ'D	AS REQ'D		7/A6	7/A6	8/A6
C	OH DOOR	AS REQ'D	AS REQ'D		9/A6	9/A6	
D	LOUVER	5'-0"	3'-8"	8'-0"	4/A6	5/A6	6/A6
E	LOUVER	4'-0"	3'-0"	8'-0"	4/A6	5/A6	6/A6



② STORAGE BUILDING – EAST ELEVATION  
Scale: 3/16" = 1'-0"

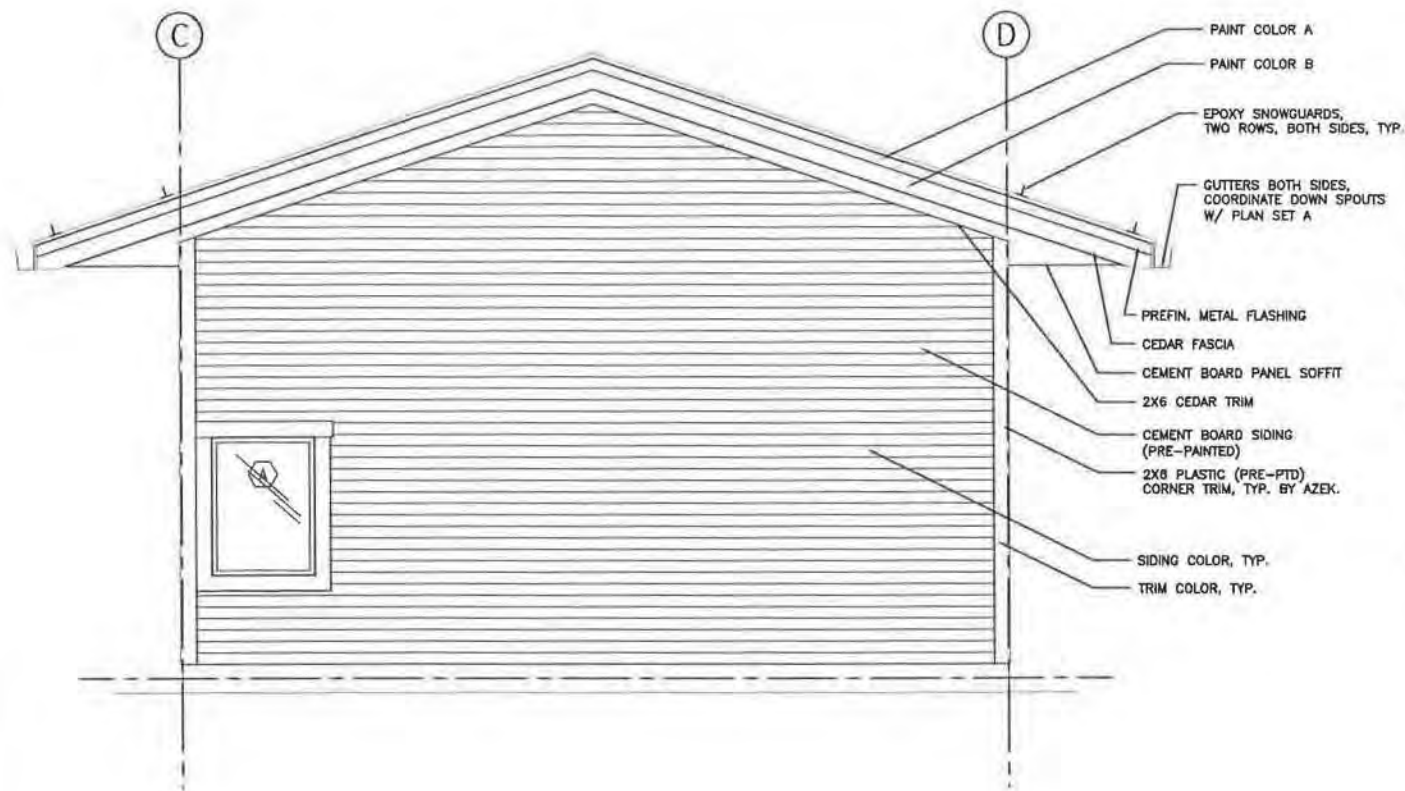


④ STORAGE BUILDING – WEST ELEVATION  
Scale: 3/16" = 1'-0"

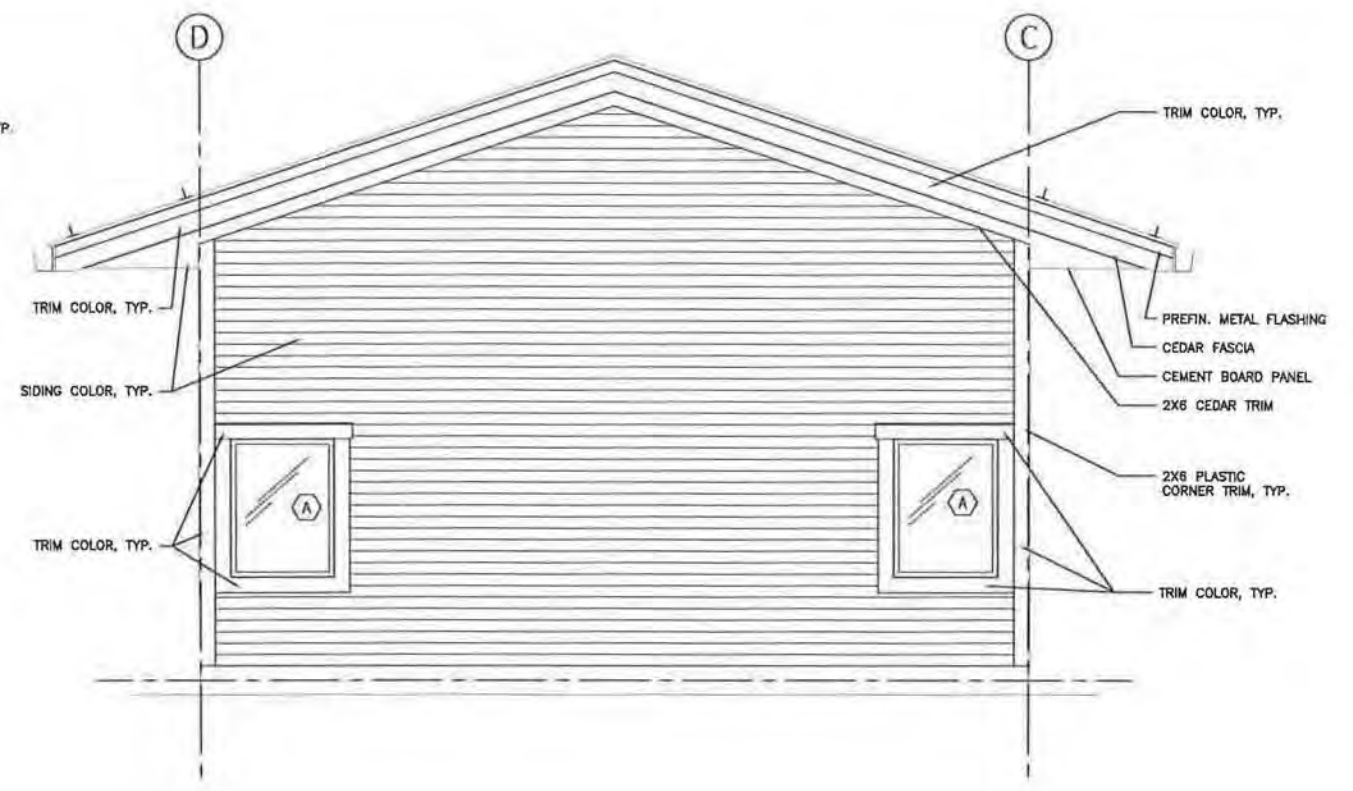
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

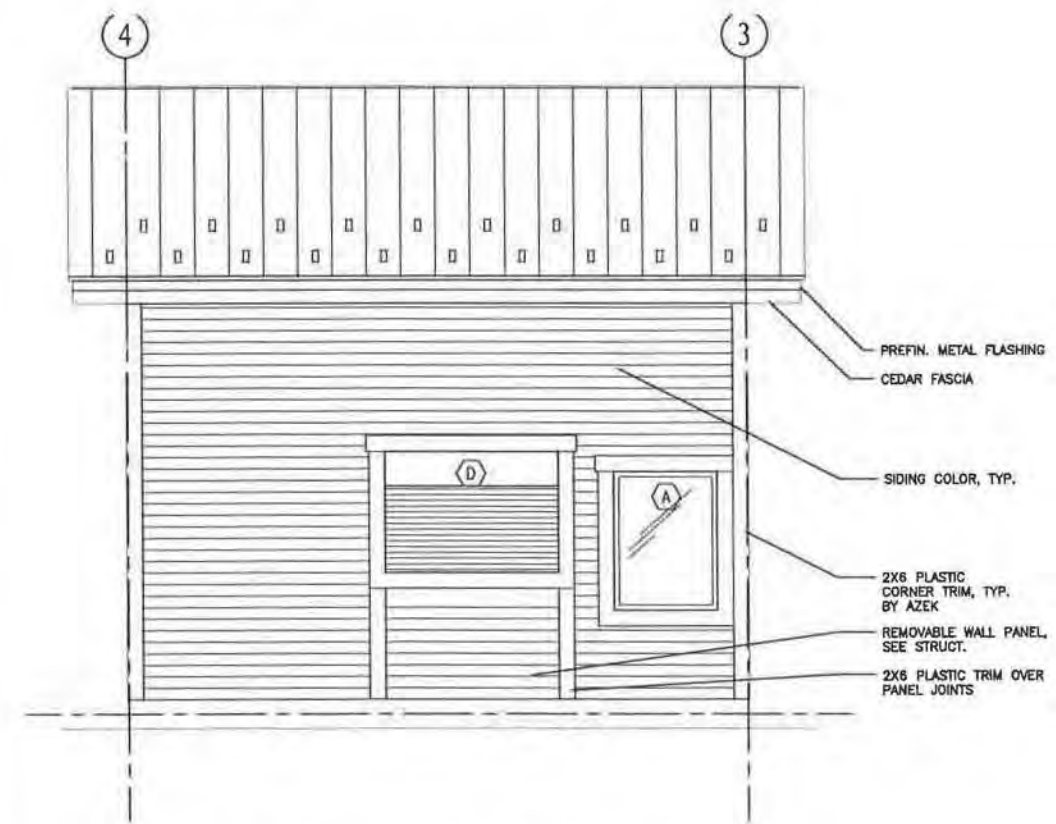
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b> <b>STORAGE BUILDING          ELEVATIONS</b>					
	CHECKED BY: CW DRAWN BY: VL PATH: TAB: LAYOUT Nov. 13, 2013	PROJECT DESIGNATION <b>68433 / 0955014</b>			YEAR <b>2013</b>	SHEET NO. <b>A3</b>
REVISIONS NO. DATE DESCRIPTION						



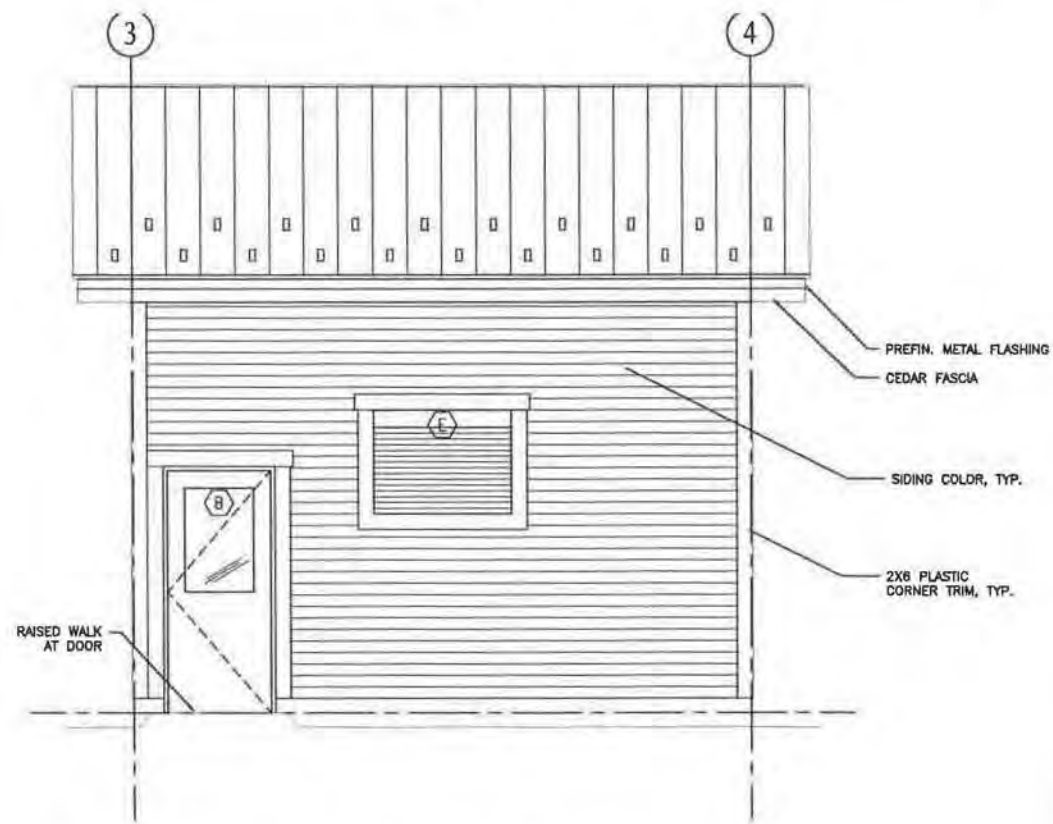
1 GENERATOR BUILDING - SOUTH ELEVATION  
Scale: 3/16" = 1'-0"



3 GENERATOR BUILDING - NORTH ELEVATION  
Scale: 3/16" = 1'-0"



2 GENERATOR BUILDING - EAST ELEVATION  
Scale: 3/16" = 1'-0"

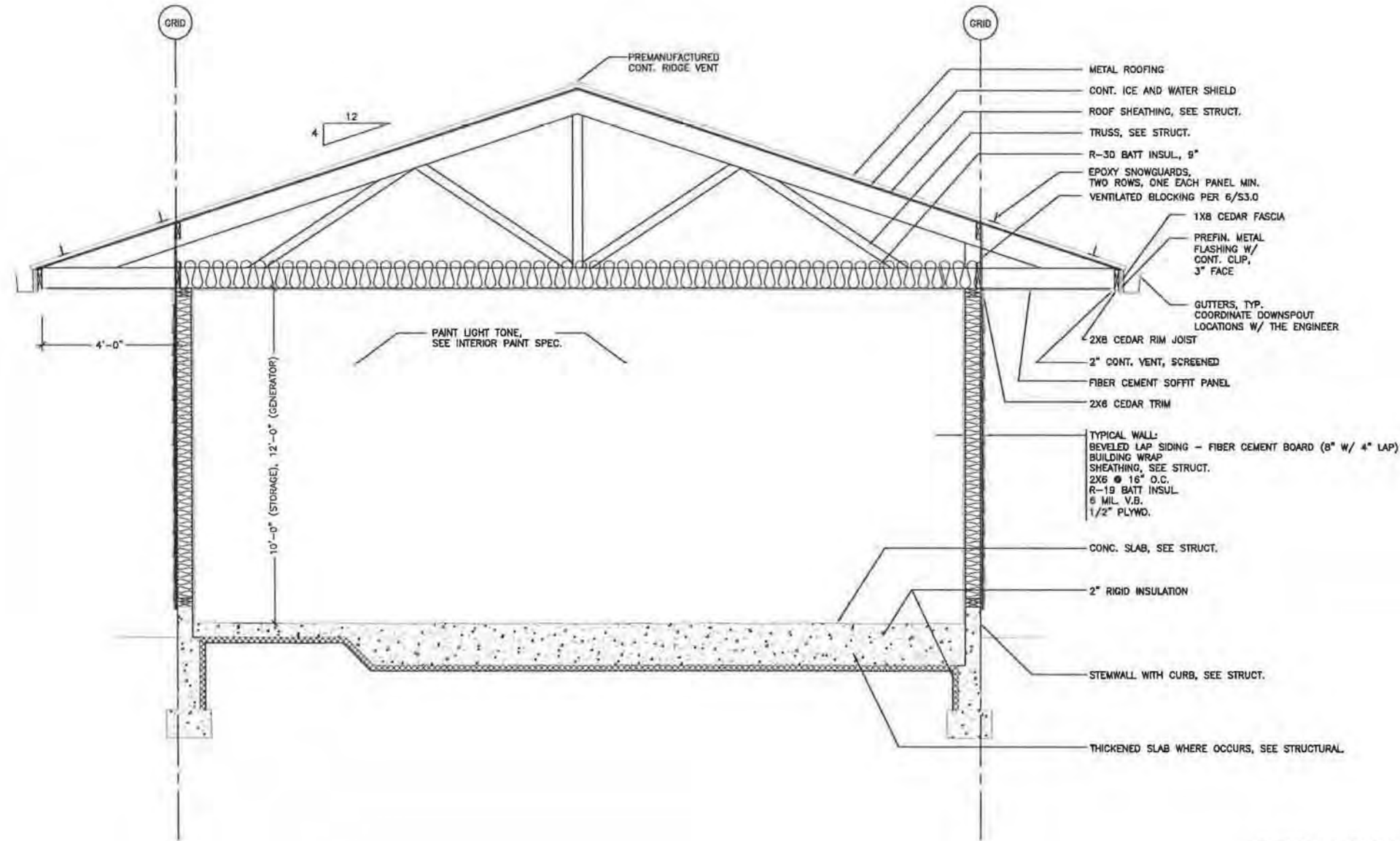


4 GENERATOR BUILDING - WEST ELEVATION  
Scale: 3/16" = 1'-0"

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b> <b>GENERATOR BUILDING          ELEVATIONS</b>				
CHECKED BY: CW DRAWN BY: VL		PROJECT DESIGNATION: <b>68433 / 0955014</b>				
PATH: TAB: LAYOUT1 Nov. 13, 2013		YEAR: <b>2013</b>	SHEET NO.: <b>A4</b>	TOTAL SHEETS: <b>17</b>		
NO.	DATE	DESCRIPTION				



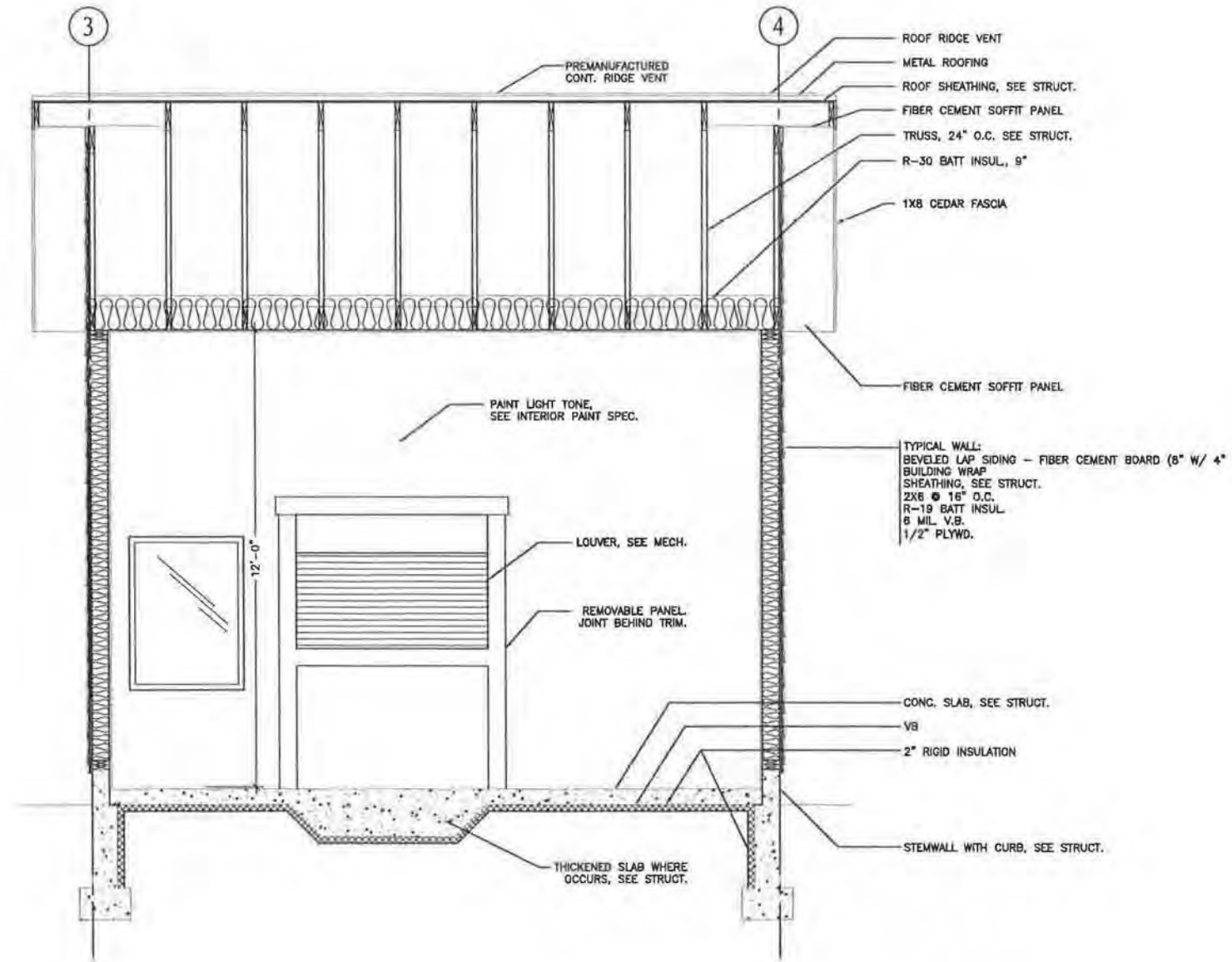
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	DESIGNED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b>
	<b>TYPICAL          BUILDING SECTION</b>

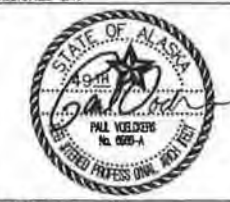
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kull* Date 12/13/16

CHECKED BY: CW	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: VL	68433 / 0955014	2013	A5	17
PATH:				
TAB: LAYOUT Nov. 13, 2013				

1 TYPICAL BUILDING SECTION  
 Scale: 1/2" = 1'-0"



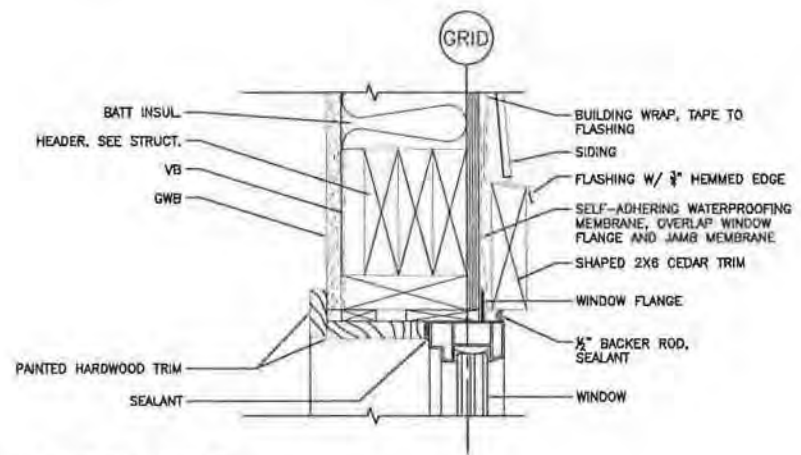
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION									
	<b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b>									
<b>GENERATOR          BUILDING SECTION</b>										
CHECKED BY: CW DRAWN BY: VL		PROJECT DESIGNATION <b>68433 / 0955014</b>								
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REVISIONS										
NO.	DESCRIPTION									

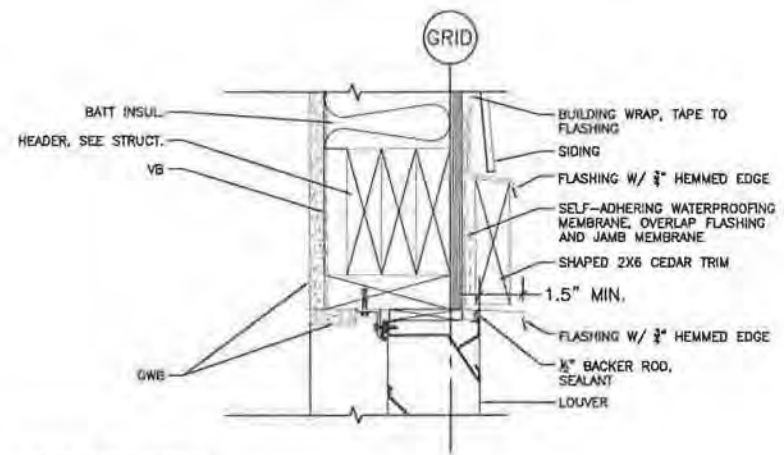
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kelder* Date 12/13/16

**1** GENERATOR BUILDING SECTION  
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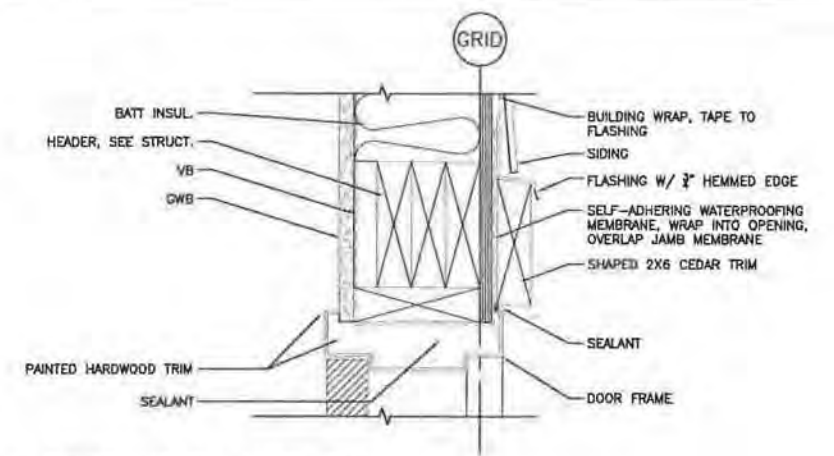




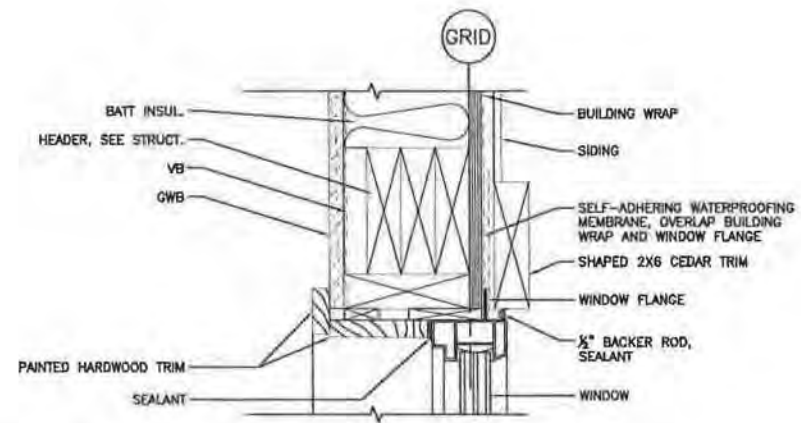
**1 WINDOW HEAD**  
Scale: 3" = 1'-0"



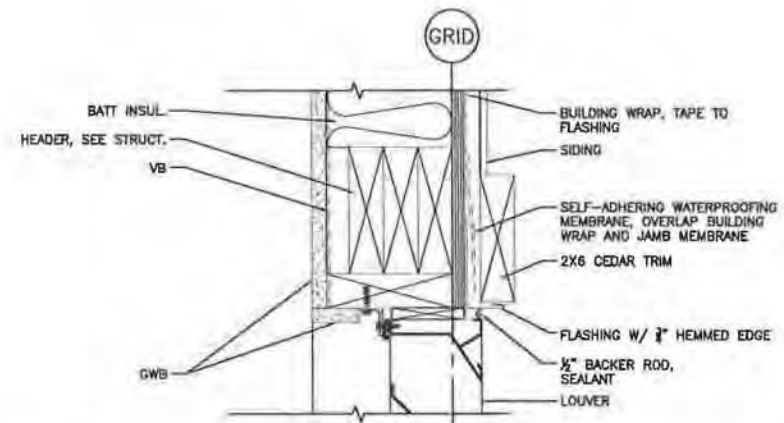
**4 LOUVER HEAD**  
Scale: 3" = 1'-0"



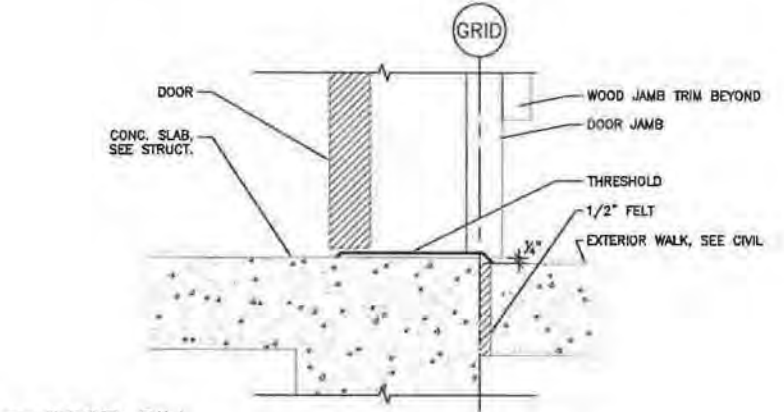
**7 DOOR HEAD, JAMB SIM.**  
Scale: 3" = 1'-0"



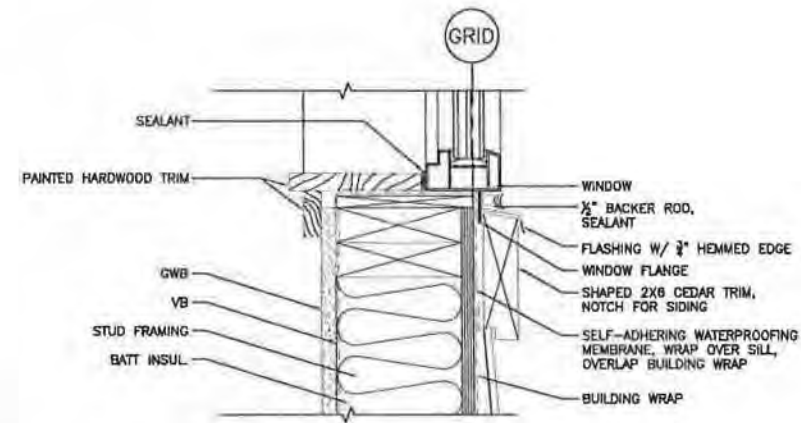
**2 WINDOW JAMB**  
Scale: 3" = 1'-0"



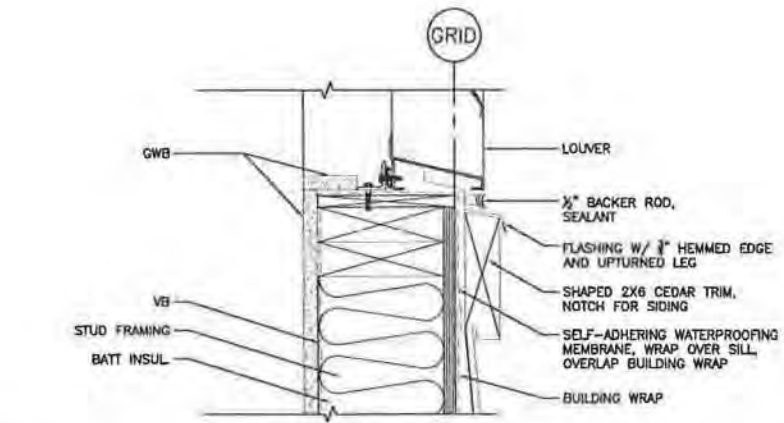
**5 LOUVER JAMB**  
Scale: 3" = 1'-0"



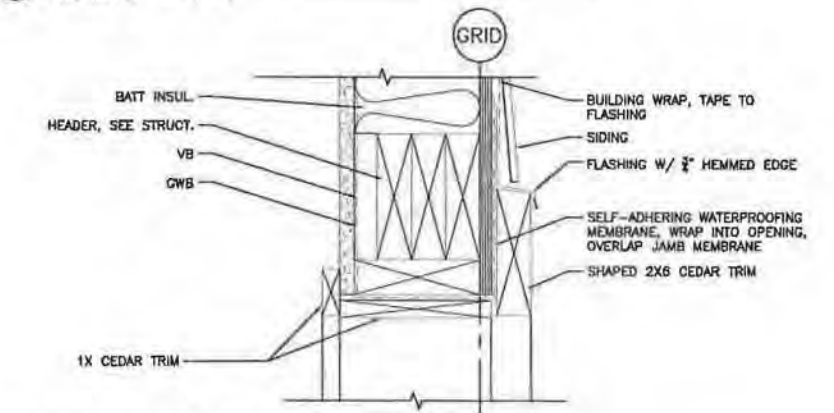
**8 DOOR SILL**  
Scale: 3" = 1'-0"



**3 WINDOW JAMB**  
Scale: 3" = 1'-0"



**6 LOUVER SILL**  
Scale: 3" = 1'-0"



**9 GARAGE DOOR HEAD, JAMB SIM.**  
Scale: 3" = 1'-0"

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *Kulick* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b>  <b>DETAILS</b>	
CHECKED BY: CW			
DRAWN BY: VL			
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TAB: LAYOUT1	Nov. 13, 2013		
NO.		DATE	DESCRIPTION
PROJECT DESIGNATION		YEAR	SHEET NO.
68433 / 0955014		2013	A6
TOTAL SHEETS		17	

**ABBREVIATIONS**

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
APPROX	APPROXIMATE (LY)
ARCH	ARCHITECT (URAL)
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BO	BOTTOM
BOF	BOTTOM OF FOOTING
BRG	BEARING
BTM	BOTTOM
BTWN	BETWEEN
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
d	PENNY
DBL	DOUBLE
DEPT	DEPARTMENT
DIA OR $\phi$	DIAMETER
DIAPHR	DIAPHRAGM
DIM	DIMENSION
DP	DEEP
EA	EACH
EF	EACH FACE
EL	ELEVATION (HEIGHT)
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL
EW	EACH WAY
EXIST OR (E)	EXISTING
EXT	EXTERIOR
FDM	FOUNDATION
FF	FINISH FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FRMG	FRAMING
FT OR'	FOOT (FEET)
FTG	FOOTING
GLR	GLUED LAMINATED BEAM
GR	GRADE
GYP	GYPSON
HD	HOLDOWN
HDR OR H	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HSS	STRUCTURAL TUBE STEEL
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
JST	JOIST
JT	JOINT
LD OR #	FOUND(S)
LDGR	LEDGER
LF	LINEAR FOOT (FEET)
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
ORIG	ORIGINAL
PERP OR $\perp$	PERPENDICULAR
P	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
R	RADIUS
REF	REFERENCE
REIN	REINFORCING
REQD	REQUIRED
SCH	SCHEDULE
SF	SQUARE FEET (FOOT)
SHTG	SHEATHING
SIM	SIMILAR
SN	SHEAR NAIL
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STD	STANDARD
STGR	STAGGER
STL	STEEL
STRUC	STRUCTURAL
T&B	TOP AND BOTTOM
TEMP	TEMPORARY OR TEMPERATURE
T&C	TONGUE AND GROOVE
THK	THICKNESS/THICK
THR	THREADED
THRU	THROUGH
TN	TOE NAIL
TOW	TOP OF WALL
TYP	TYPICAL
U/S	UNDER SIDE OF
UNL	UNLESS OTHERWISE NOTED
V OR VERT	VERTICAL
WD	WOOD

**DESIGN CRITERIA**

FLOOR LIVE LOAD:	100 PSF
GROUND SNOW LOAD:	100 PSF
ROOF SNOW LOAD:	20 PSF, DESIGN FOR UNBALANCED LOADING (MAX. 110 PSF), (NO DRIFTING OR SLIDING LOADS)
WIND:	120 MPH, (3 SEC. GUST) EXPOSURE D
SEISMIC:	SITE CLASS: D, IMPORTANCE FACTOR: 1.0 DESIGN CATEGORY: D S <sub>1</sub> = 1.16g, S <sub>1</sub> = 0.44g, S <sub>0.2</sub> = 0.80g

INTERNATIONAL BUILDING CODE: 2009 EDITION

**GENERAL NOTES**

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
- ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND A SOLUTION GIVEN BY, THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS."
- IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
- WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE STRUCTURAL DRAWINGS.
- ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE 2006 EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC), AND STANDARDS REFERENCED THEREIN.
- PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
- IN AREAS TO BE EXCAVATED, THE CONTRACTOR SHALL DETERMINE THE LOCATIONS OF EXISTING UTILITY SERVICES PRIOR TO EXCAVATION.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED TO PROVIDE STABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- SUBMITTALS:
  - SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE COMPLETE, CHECKED, AND APPROVED BY THE GENERAL CONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR SUB-CONTRACTORS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE ARE ANY DISCREPANCIES IN THE DIMENSIONS OR DETAILS.
  - SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS:
    - REINFORCING STEEL
    - CONCRETE MIX DESIGN
    - PRE-FABRICATED WOOD TRUSSES
- SPECIAL INSPECTION:
  - SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK IN CONFORMANCE WITH IBC SECTION 1704:
    - HOLDOWNS,
    - CAST-IN-PLACE ANCHOR BOLTS, EPOXY OR EXPANSION ANCHORS,
    - SHEAR NAILING OF SHEAR WALLS AND PLYWOOD DIAPHRAGMS
  - THE DEPARTMENT WILL PROVIDE SPECIAL INSPECTION SERVICES BY A LICENSED CIVIL ENGINEER FOR THE ITEMS NOTED ABOVE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE DEPARTMENT OF CONSTRUCTION FOR SPECIAL INSPECTION ITEMS.

**FOUNDATION**

- A SOIL BEARING PRESSURE OF 2,500 PSF WAS USED FOR THE FOUNDATION DESIGN BASED ON ASSUMED MEDIUM DENSE SANDY GRAVELS EXISTING SOILS. IF CONDITIONS ARE FOUND TO BE DIFFERENT, THE ENGINEER SHALL GIVE DIRECTION FOR FOUNDATION IMPROVEMENT.
- ALL SOIL COMPACTION AND SITE PREPARATION WORK SHALL BE DONE UNDER THE DIRECTION OF A REGISTERED ALASKAN CIVIL ENGINEER OR ENGINEERING GEOLOGIST PRACTICING IN THE STATE OF ALASKA.
- THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE TO LINE WITH ALL LOOSE MATERIAL AND STANDING WATER REMOVED BEFORE CONCRETE IS PLACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO ENSURE THAT THE SPECIFIED COMPACTION DENSITIES ARE ACHIEVED. COMPACTION REPORTS FOR ALL FILL SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO PLACING ANY CONCRETE.
- ALL SOIL AND FILL DIRT UNDER FOOTINGS OR SLABS SHALL BE COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DENSITY.
- ALL LOOSE SOIL AND FILL DIRT, INCLUDING BACKFILL BEHIND RETAINING WALLS, SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY.

**REINFORCED CONCRETE**

- REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING:
  - THE MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI EXCEPT FOR THE SLAB UNDERNEATH THE GENERATOR WHICH WILL BE 4,000 PSI. CONCRETE TO BE CLASS A CONCRETE FOR GENERAL USE.
  - THE MAXIMUM SLUMP SHALL BE 4 INCHES.
  - SLABS AND OTHER FLATWORK SHALL HAVE A MAXIMUM SLUMP OF 4 INCHES AND A MAXIMUM WATER/CEMENT RATIO OF 0.45.
  - EXTERIOR SLABS SHALL HAVE 6% ± 1.5% ENTRAINED AIR.
- PORTLAND CEMENT SHALL CONFORM TO AASHTO M85, TYPE I, II, OR III.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO AASHTO M6 CLASS A FOR FINE AGGREGATES AND AASHTO M80 CLASS B FOR COARSE AGGREGATES.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
- ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM A494. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
- READY-MIX CONC. SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- SLEEVES, PIPES, OR CONDUITS SHALL NOT BE PLACED THROUGH CONTINUOUS OR SPREAD FOOTINGS, GRADE BEAMS, OR TIE BEAMS.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH, UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE CAST IN THE CONCRETE AND FOR EXTENT OF DEPRESSIONS, CURBS, AND RAMPS.
- ALL VERTICAL SURFACES OF CONCRETE ABOVE FINISHED GRADE SHALL BE FORMED.
- CONCRETE PLACEMENTS SHALL BE CONTINUOUS BETWEEN CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL BE ADEQUATELY KEPT. THEIR LOCATIONS AND DETAILS, WHEN NOT SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
- JOINT SEALANT TO BE SILICONE JOINT SEALER TYPE M DR S GRADE P. CONFORM WITH F55 TT-5-001543A, CLASS A.

**REINFORCING STEEL**

- BAR REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, INCLUDING SUPPLEMENT S1.
- DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-95, UNLESS OTHERWISE NOTED.
- LAPS AT BAR SPLICES IN CONCRETE CONSTRUCTION SHALL BE CLASS A, B, OR C IN ACCORDANCE WITH CHAPTER 12 OF ACI 318-95, UNLESS OTHERWISE NOTED.
- VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED ON THE DETAILS.
- ALL REINFORCING STEEL SHALL BE SECURELY TIED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- LAPS OF WELDED WIRE FABRIC AT SPLICES SHALL BE IN CONFORMANCE WITH ACI 318-02, BUT NOT BE LESS THAN 5 INCHES.
- BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- SEE THE PLANS FOR THE REQUIRED CONCRETE COVER FOR CAST-IN-PLACE CONCRETE.
- REINFORCING STEEL DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY CRSI.
- WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.

**PRE-FABRICATED WOOD TRUSSES**

- PRE-FABRICATED WOOD TRUSSES SHALL BE SUPPLIED BY A MEMBER OF THE TRUSS PLATE INSTITUTE. THE CONTRACTOR SHALL SUBMIT TRUSS LAYOUT DRAWINGS, DETAILS, AND CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- ALL LATERAL BRACING SHOWN IS SYMPTOMATIC ONLY. CONTRACTOR SHALL SUBMIT BRACING LAYOUT AND DETAILS, INCLUDING BRIDGING, HANGERS, STIFFENERS, CLIPS, AND OTHER HARDWARE PROVIDED FOR INSTALLATION, TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- THE TRUSS SYSTEM SHALL BE DESIGNED FOR THE LOADING CRITERIA SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE ROOF TRUSS LOADING DIAGRAM PROVIDED IN THIS DRAWING SET.
- SHOP DRAWINGS SHALL INDICATE THAT ADEQUATE BEARING LENGTH IS AVAILABLE FOR BEARING ON BEAMS.
- PROVIDE MODIFIED BEARING SEAT DETAILS IF REQUIRED.
- FIFTEEN PERCENT INCREASE OF THE LUMBER STRESSES SHALL BE ALLOWED FOR MEMBERS SUPPORTING SNOW LOAD.

**STRUCTURAL WOOD**

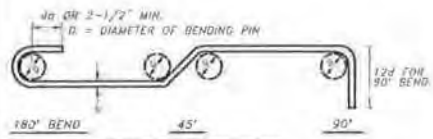
- EXCEPT AS NOTED IN NOTE 2 BELOW, SAWN WOOD MEMBERS SHALL BE HEW FIR NO. 2 OR BETTER, UNLESS OTHERWISE NOTED, S4S, AND SHALL BE GRADE MARKED BY A RECOGNIZED GRADING AGENCY APPROVED BY THE INTERNATIONAL CODE CONFERENCE (ICC). ENGINEERED WOOD MEMBERS SHALL BE TRUSS JOIST PARALLAM PSL, 2.0E UNO.
- EXTERIOR SAWN WOOD MEMBERS SHALL BE TREATED PER THE RECOMMENDATIONS OF WESTERN WOOD PRESERVES INSTITUTE.
- SHEATHING SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB) SHALL BE APA RATED SHEATHING. SHALL BE OF THICKNESS AND GRADE AS NOTED ON THE STRUCTURAL DRAWINGS AND SHALL BE STAMPED WITH THE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
- FRAMING ANCHORS, STRAPS, JOIST HANGERS, ETC., SHALL BE AS MANUFACTURED BY "SIMPSON COMPANY" OR AN APPROVED EQUAL.
- BOLTS SHALL CONFORM TO ASTM A307. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563, HEX GRADE A.
- ALL BOLT HEADS, NUTS, AND LAG SCREWS BEARING ON WOOD SHALL HAVE CUT WASHERS, UNLESS OTHERWISE NOTED.
- BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" LARGER THAN THE NOMINAL BOLT DIAMETER.
- NAILING OF SAWN WOOD MEMBERS SHALL BE WITH COMMON NAILS, UNLESS OTHERWISE NOTED, WHERE NOT SHOWN ON THE DRAWINGS, NAILING SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC.
- DIAPHRAGM AND SHEAR WALL NAILING SHALL CONFORM TO TABLE 2306.3.1 OF THE IBC (COMMON NAILS) WITH NOMENCLATURE DEFINED AS FOLLOWS:
  - BN = NAILING AT DIAPHRAGM BOUNDARIES AND AT EDGES OF OPENINGS
  - EN = EDGE NAILING
  - FN = FIELD NAILING
- IN HORIZONTAL DIAPHRAGMS OR VERTICAL SHEAR WALLS, NO PANEL LESS THAN 24" WIDE SHALL BE USED UNLESS ALL EDGES ARE SUPPORTED ON FRAMING OR BLOCKING.
- WOOD MEMBERS SHALL BE ERECTED WITH THE NATURAL CAMBER UP.
- ALL NAILS LARGER THAN 16d AND ALL NAILING TENDING TO CAUSE SPLITTING OF WOOD MEMBERS, SHALL BE INSTALLED IN PRE-DRILLED HOLES.
- CUTTING, NOTCHING, OR DRILLING OF BEAMS/JOISTS/POSTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER.
- ALL WOOD RESTING ON CONCRETE OR NOTED AS TREATED ON THE PLANS SHALL BE PRESSURE TREATED IN CONFORMANCE WITH WESTERN WOOD PRESERVER'S INSTITUTE. SURFACES THAT ARE DAMAGED OR EXPOSED BY CUTTING, DRILLING, OR NOTCHING SHALL BE TREATED WITH A PRESERVATIVE PER WESTERN WOOD PRESERVER'S INSTITUTE.
- PROVIDE BLOCKING OR BRIDGING PER SECTIONS 2308.8, 2309.9, 2308.10.6 OF THE IBC.
- MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED 19 PERCENT.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

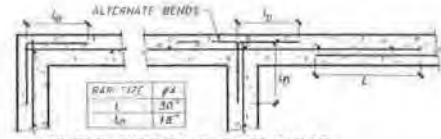
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHWEST REGION
	<b>HAINES FERRY TERMINAL IMPROVEMENTS                  PLANSET C</b>
<b>GENERAL STRUCTURAL NOTES</b>	
DESIGNED BY: ADS CHECKED BY: MCS DRAWN BY: MCP	PATH: I:\2013\121316\13\16\DRAWINGS\STRUCTURE\FINAL.DWG TAE: 6/14/2016 10:05 AM 6/14/2016 10:05 AM
NO. DATE DESCRIPTION	YEAR SHEET NO. TOTAL SHEETS
68433 / 0955014	2013 S1.1 17



**LEGEND (FOR REINF. BENDS NOT SHOWN TO SCALE)**

DENOTES 90° BEND IN THE PLANE OF THE DWG.  
 DENOTES 90° BEND PERPENDICULAR TO THE PLANE OF THE DWG.  
 DENOTES BEND PERPENDICULAR TO THE PLANE OF THE DWG.  
 DENOTES BEND IN THE PLANE OF THE DWG.  
 DENOTES OFFSET IN THE PLANE OF THE DWG.

**1 STANDARD HOOKS & BENDS**  
NTS



**SINGLE CURTAIN @ STEM WALLS**

**DOUBLE CURTAIN @ FTGS**

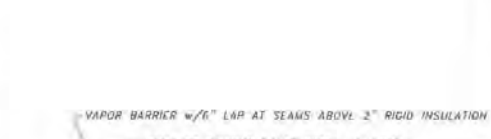
**2 WALL & FTG REINF @ CORNERS & INTERSECTIONS**  
NTS



**FOOTING SECTION**

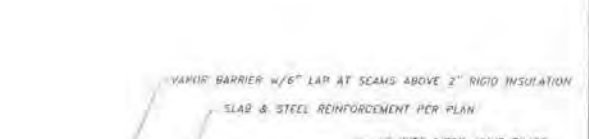
**FOOTING ELEVATION**

**3 PIPES & TRENCHES @ FOUNDATIONS**  
NTS



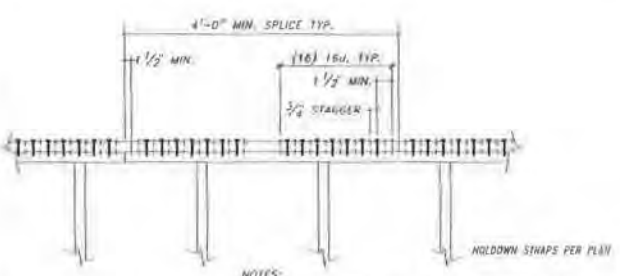
**CRACK CONTROL JOINT**

**4 CRACK CONTROL JOINT**  
NTS



**ISOLATION JOINT DETAIL**

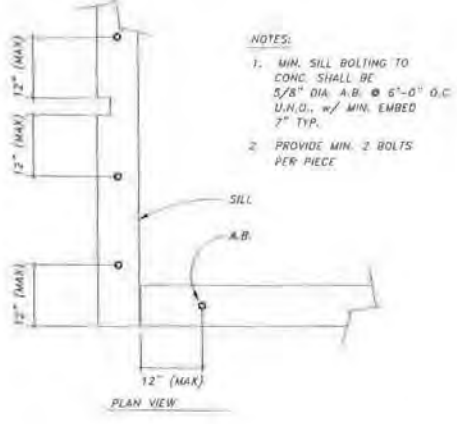
**5 ISOLATION JOINT DETAIL**  
NTS



**NOTES:**

- MINIMUM PLATE SPLICE IS (16) 16d COMMON EA. SIDE OF EA. PLATE JOINT, W51C78 IS ALTERNATE.
- STAGGER NAILS IN 2 ROWS.
- OCCURS AT TOP PLATES UNDER ROOF.
- OCCURS AT BOTTOM PLATES ABOVE SECOND FLOOR LINE.

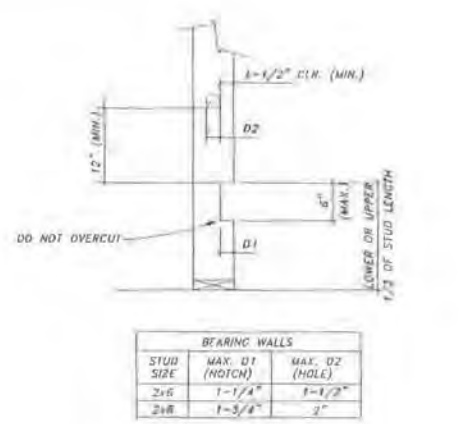
**6 NAILED SPLICE**  
NTS



**NOTES:**

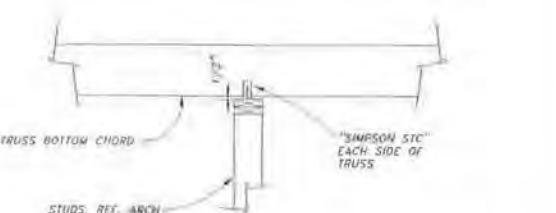
- MIN. SILL BOLTING TO CONC. SHALL BE 5/8" DIA. A.B. @ 6'-0" O.C. U.H.O. w/ MIN. EMBED 7" TYP.
- PROVIDE MIN. 2 BOLTS PER PIECE.

**7 SILL PLATE BOLTING TO CONCRETE**  
NTS



BEARING WALLS		
STUD SIZE	MAX. D1 (NOTCH)	MAX. D2 (HOLE)
2x6	1-1/4"	1-1/2"
2x8	1-3/4"	2"

**8 ALLOWABLE HOLES & NOTCHES IN WOOD STUDS**  
NTS



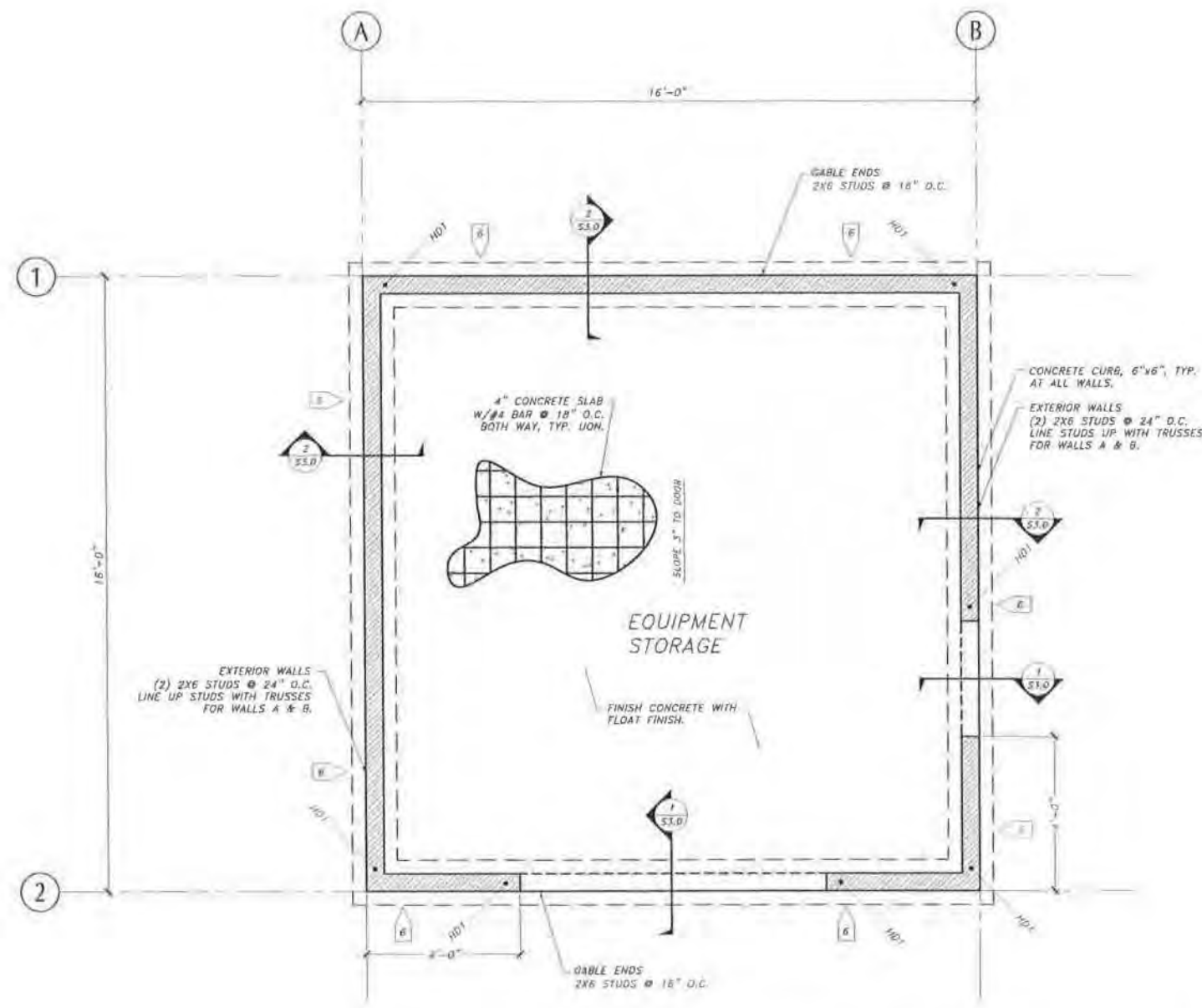
**9 NON-BEARING WALL PERP. TO TRUSSES**  
NTS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET C</b>  <b>STANDARD DETAILS</b>
CHECKED BY: MCS DRAWN BY: MCP	PROJECT INFORMATION <b>68433 / 0955014</b>
DATE: 12/13/16 TITLE: STANDARD DETAILS	YEAR: 2013 SHEET NO.: S1.2 TOTAL SHEETS: 17



**1 STORAGE BUILDING FOUNDATION PLAN**  
SCALE: 0.5" = 1' - 0"

**PLAN NOTES:**

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, DEPRESSIONS, STAIR DETAILS, GUARDRAILS, ETC. W/ ARCHITECTURAL DRAWINGS. WINDOW/DOOR OPENINGS ARE LOCATED WHERE SHOWN BY THE ARCHITECT.
2. REF. ARCH'L, MECH'L, ELECT'L, PLUMBING, AND CIVIL DWGS. FOR DUCTS, CHASES, PIPES, ETC.
3. REF. S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA
4. REF. S1.2 FOR STANDARD DETAILS.
5. REF. PLANSET A FOR F.F. ELEVATIONS.
6. WALLS (OR PORTIONS OF WALLS) NOT INDICATED ON FRAMING PLANS ARE PARTITION WALLS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND EXTENT OF PARTITION WALLS.

MARK	EN (4) (EDGE NAILING)	BOTTOM WALL PLATE	BLOCKING (2)	STUDS
S1	10d's @ 6" OC	2X W/ 5/8" ANCHOR BOLT @ 24" O.C.	2X	PER PLAN
S2	10d's @ 4" OC	2X W/ 5/8" ANCHOR BOLT @ 24" O.C.	2X	PER PLAN

**SHEAR WALL NOTES:**

1. SHEATHING SHALL BE 15/32" APA RATED WITH A SPAN INDEX OF 32/16, UGN.
2. ALL PANEL EDGES SHALL BE BLOCKED WITH FULL DEPTH BLOCKING.
3. END STUDS AND HOLDDOWNS PER DETAIL S/S3.0.
4. ALL SHEATHING NAILS ARE TO BE COMMON.

SHEAR WALL MARK (NAIL SPACING)  
 - DENOTES SHEAR WALL

TAG	SIMPSON HOLDDOWN	ANCHOR BOLT		END STUD
		SIZE	IN STEM WALL SIMPSON A.B.	
HD1	HDU2-SDS2.5	5/8" #	SB 5/8X24	(2) 2X6
HD2	HDU4-SDS2.5	5/8" #	SB 5/8X24	(2) 2X6
HD3	HDQB-SDS3	7/8" #	SB 7/8X24	(3) 2X6

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET C</b>	
<b>STORAGE BUILDING FOUNDATION PLAN</b>		
CHECKED BY: MCS DRAWN BY: MCP	PATH: I:\2012\121340 2\RAW DRAWINGS\STRUCTURAL FNDING TAB: S2.0 - S. BLDG FOUNDATION PLAN      Wednesday, November 13, 2013 1:24:16 PM	
PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR <b>2013</b>	SHEET NO <b>S2.0</b>
TOTAL SHEETS <b>17</b>		

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *Kullback* Date 12/13/16

**PLAN NOTES**

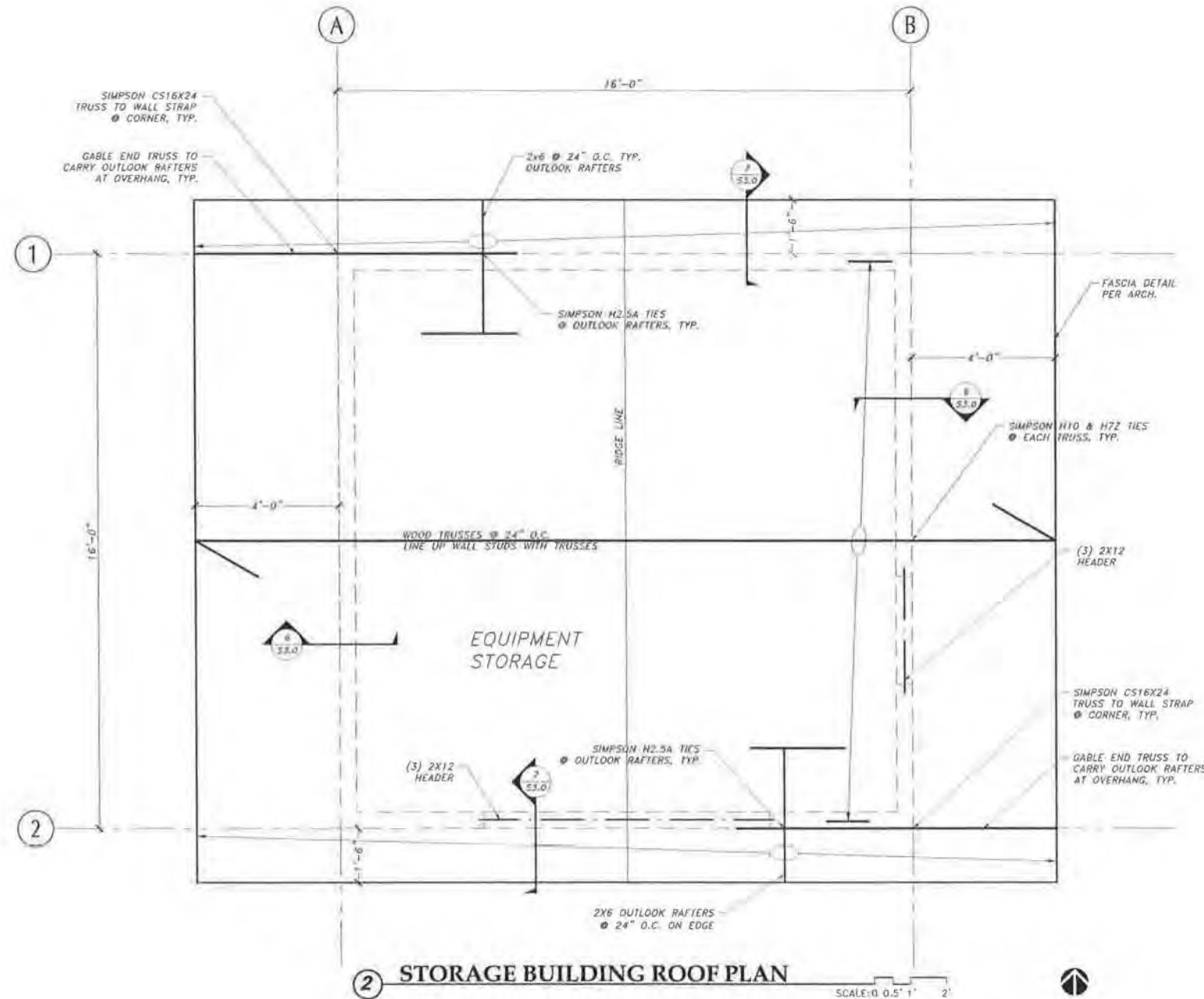
1. VERIFY ALL DIMENSIONS, OVERHANGS, ETC., WITH ARCHITECTURAL DRAWINGS.
2. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR DUCTS, CHASES, PIPES, ETC.
3. REFERENCE 51.1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REFERENCE 51.2 FOR STANDARD DETAILS.

**ROOF SHEATHING**

19/32" APA CCX RATED SHEATHING W/ PANEL INDEX 40/20 EXTERIOR GLUE, NAIL W/ 8d @ 6" O.C. AT SUPPORTED PANEL EDGES, AND @ 12" O.C. IN FIELD.

**TRUSS NOTES**

1. DESIGN FOR UNBALANCED SNOW LOADS.
2. DESIGN FOR AN EAVE OVERHANG UPLIFT WIND LOAD OF 71 PSF TYP., AND 92 PSF WITHIN 3 FT OF BUILDING CORNER.



**2 STORAGE BUILDING ROOF PLAN**

SCALE: 1/8" = 1'-0"

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	DESIGNED BY: AOS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	CHECKED BY: MCS DRAWN BY: MCP	<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET C</b>
PATH: \\S21\2\1340 2\7\16\ DRAWING\STRUCTURAL FINAL.DWG TAB: S2.1 - S. BLDG ROOF PLAN Wednesday, November 13, 2013 1:54:55 PM		<b>STORAGE BUILDING ROOF PLAN</b>
PROJECT DESIGNATION: 68433 / 0955014 YEAR: 2013 SHEET NO: S2.1 TOTAL SHEETS: 17		

**GENERATOR NOTES:**  
 VERIFY THE CONCRETE THICKNESS, ANCHOR EDGE DISTANCES/SPACING, ANCHOR BOLT DIAMETERS, ANCHOR BOLT QUANTITIES AND STEEL GRADE MEET OR EXCEED THE MANUFACTURER'S REQUIREMENTS.



**PLAN NOTES:**

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, DEPRESSIONS, STAIR DETAILS, GUARDRAILS, ETC. W/ ARCHITECTURAL DRAWINGS. WINDOW/DOOR OPENINGS ARE LOCATED WHERE SHOWN BY THE ARCHITECT.
2. REF. ARCH'T, MECH'Y, ELEC'T'L, PLUMBING, AND CIVIL DWGS. FOR DUCTS, CHASES, PIPES, ETC.
3. REF. S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA
4. REF. S1.2 FOR STANDARD DETAILS.
5. REF. PLANSET A FOR F.F. ELEVATIONS.
6. WALLS (OR PORTIONS OF WALLS) NOT INDICATED ON FRAMING PLANS ARE PARTITION WALLS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND EXTENT OF PARTITION WALLS.

SHEAR WALL SCHEDULE				
MARK	EN (4) (EDGE NAILING)	BOTTOM WALL PLATE	BLOCKING (2)	STUDS
5	10d's @ 6" OC	2X W/ 5/8" ANCHOR BOLT @ 24" O.C.	2X	PER PLAN
4	10d's @ 4" OC	2X W/ 5/8" ANCHOR BOLT @ 24" O.C.	2X	PER PLAN


**SHEAR WALL NOTES:**

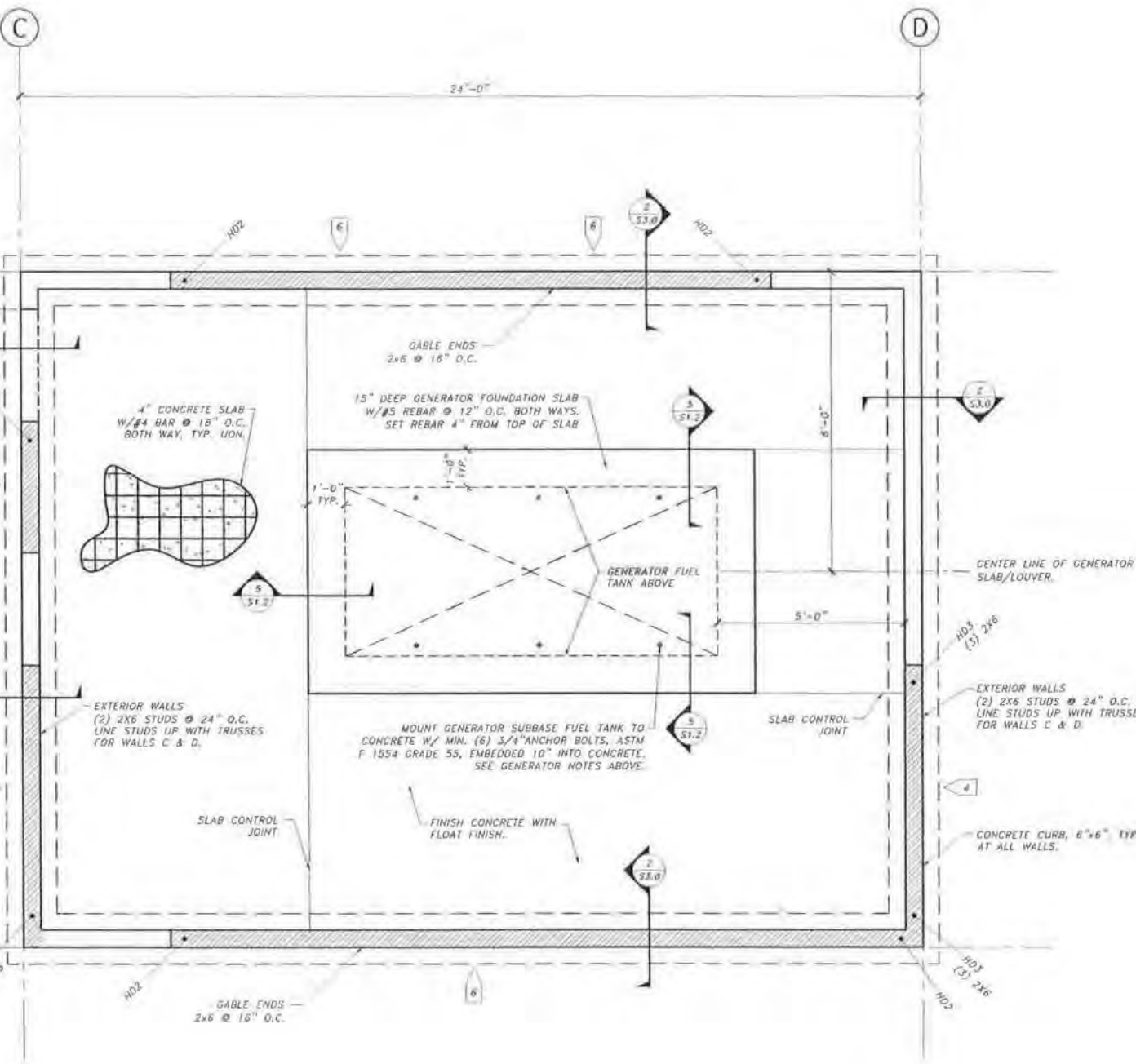
1. SHEATHING SHALL BE 15/32" APA RATED WITH A SPAN INDEX OF 32/16, UON.
2. ALL PANEL EDGES SHALL BE BLOCKED WITH FULL DEPTH BLOCKING.
3. END STUDS AND HOLDDOWNS PER DETAIL 5/S3.0.
4. ALL SHEATHING NAILS ARE TO BE COMMON.

 — SHEAR WALL MARK (NAIL SPACING)  
 — DENOTES SHEAR WALL

HOLD DOWN SCHEDULE				
TAG	SIMPSON HOLDDOWN	ANCHOR BOLT		END STUD
		SIZE	IN STEM WALL SIMPSON A.B.	
HD1	HDU2-SDS2.5	5/8"Ø	SB 5/8X24	(2) 2X6
HD2	HDU4-SDS2.5	5/8"Ø	SB 5/8X24	(2) 2X6
HD3	HDQ8-SDS3	7/8"Ø	SB 7/8X24	(3) 2X6

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

 DESIGNED BY: ADS CHECKED BY: MCS DRAWN BY: MCP	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC UTILITIES SOUTH ALASKA REGION
	<b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET C</b>  <b>GENERATOR BUILDING          FOUNDATION PLAN</b>
DATE: 12/20/16 11:40:25 AM FILE: 0 - BLDG FOUNDATION PLAN PROJECT DESCRIPTION: HAINES FERRY SHEET NO: 13 OF 13 TOTAL SHEETS: 13	PROJECT DESIGNATION: <b>68433 / 0955014</b> YEAR: <b>2013</b> SHEET NO: <b>S2.2</b> TOTAL SHEETS: <b>17</b>



**3 GENERATOR BUILDING FOUNDATION PLAN**  
 SCALE: 0 0.5' 1' 2'

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *R. Kullb* Date 12/13/16

**PLAN NOTES**

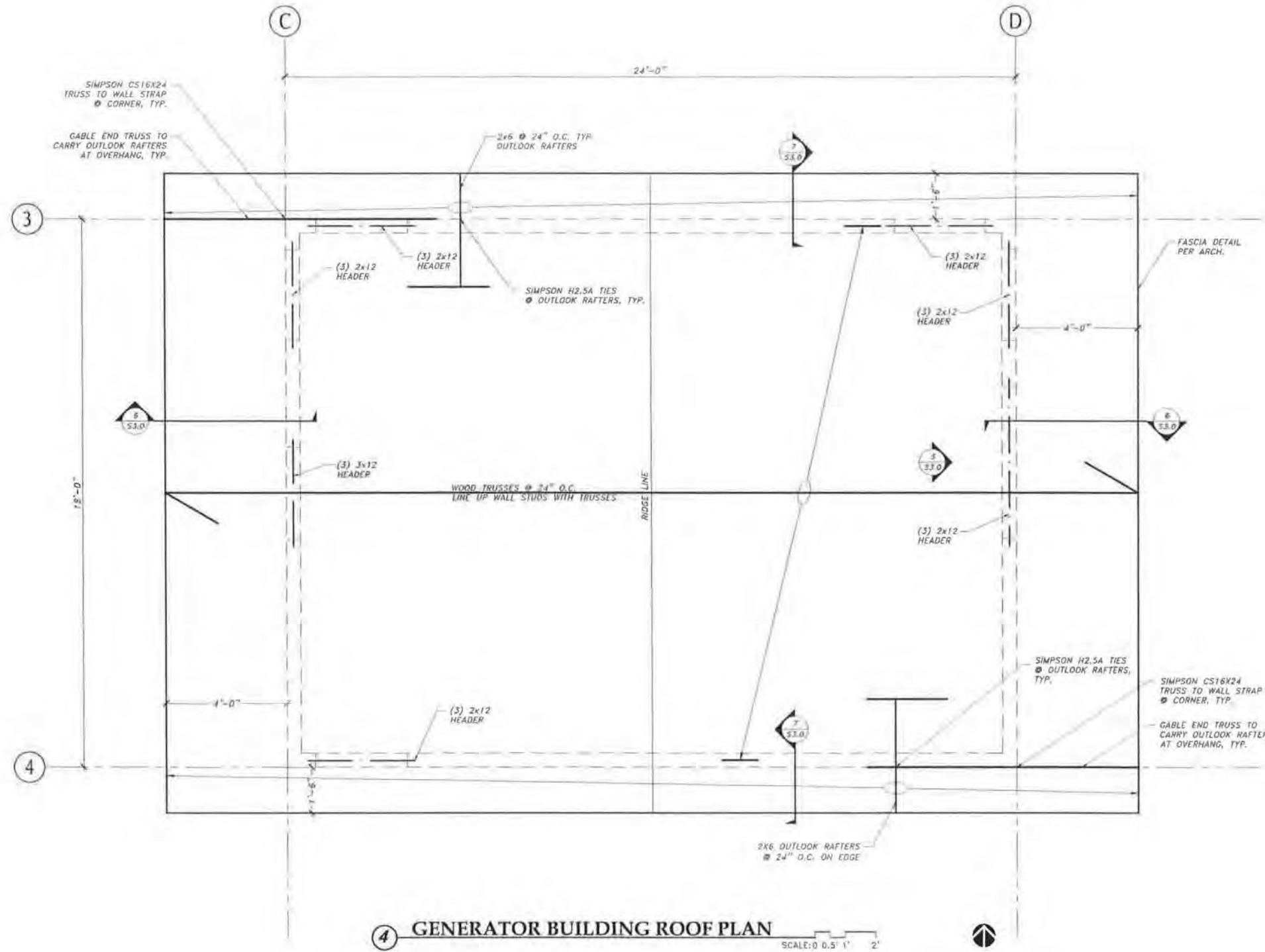
1. VERIFY ALL DIMENSIONS, OVERHANGS, ETC., WITH ARCHITECTURAL DRAWINGS.
2. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR DUCTS, CHASES, PIPES, ETC.
3. REFERENCE S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REFERENCE S1.2 FOR STANDARD DETAILS.

**ROOF SHEATHING**

19/32" APA CCX RATED SHEATHING W/ PANEL INDEX 40/20 EXTERIOR GLUE, NAIL W/ Bd @ 6" O.C. AT SUPPORTED PANEL EDGES, AND @12" O.C. IN FIELD.

**TRUSS NOTES**

1. DESIGN FOR UNBALANCED SNOW LOADS.
2. DESIGN FOR AN EAVE OVERHANG UPLIFT WIND LOAD OF 71 PSF TYP., AND 92 PSF WITHIN 3 FT OF BUILDING CORNER.

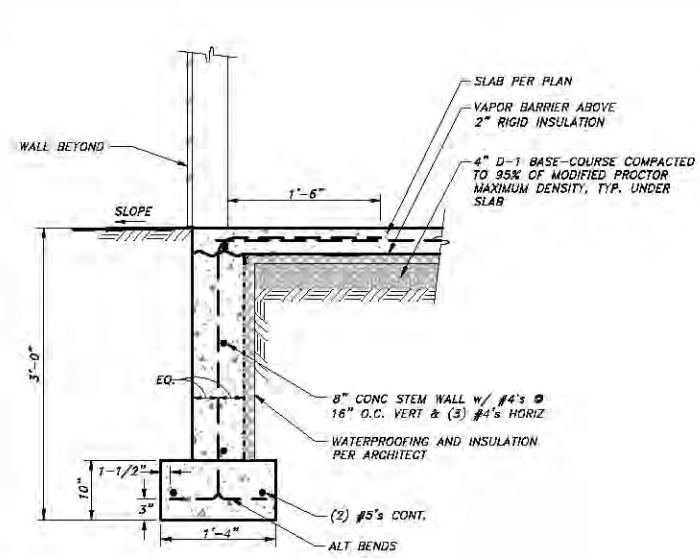


**4 GENERATOR BUILDING ROOF PLAN**  
SCALE: 0.5" = 1' = 2'

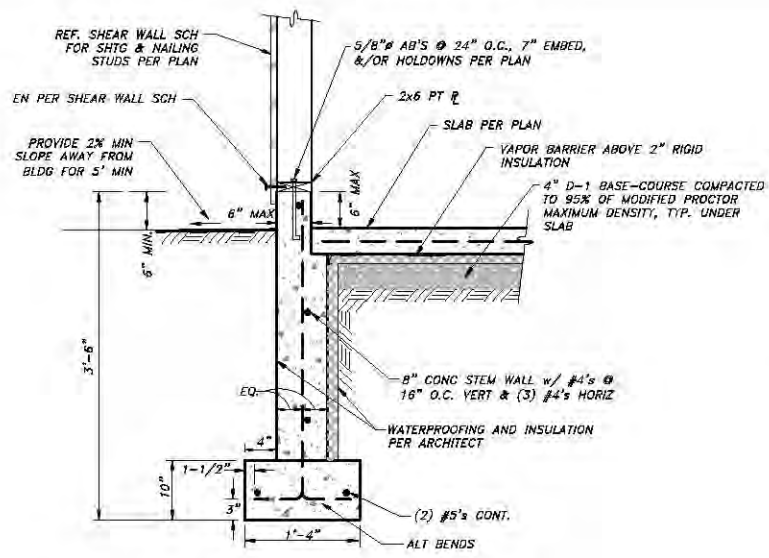
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

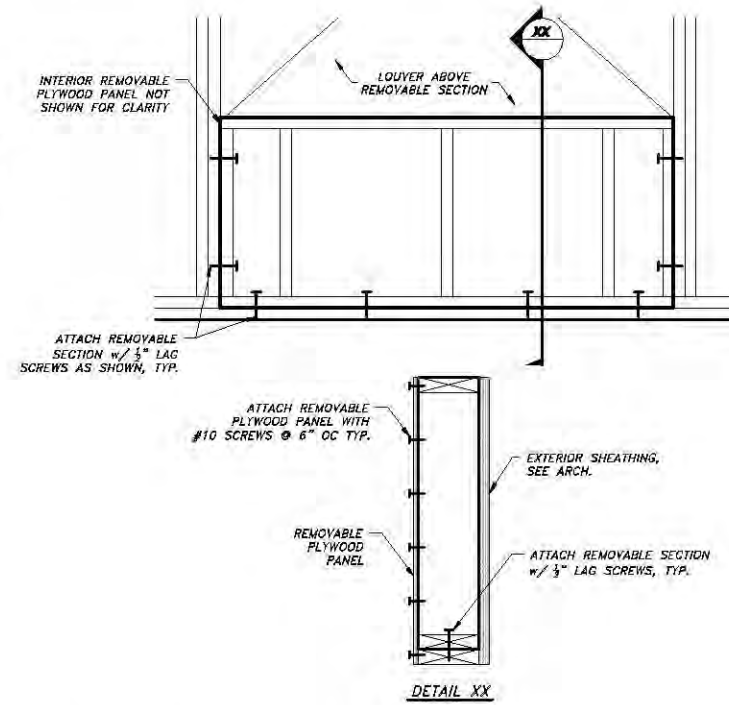
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	<b>HAINES FERRY TERMINAL IMPROVEMENTS                  PLANSET C</b>	
<b>GENERATOR BUILDING                  ROOF PLAN</b>		
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NO. DATE DESCRIPTION	APPLICABLE SPECIFICATION	SHEET NO. TOTAL SHEETS
	68433 / 0955014	2013 S2.3 17



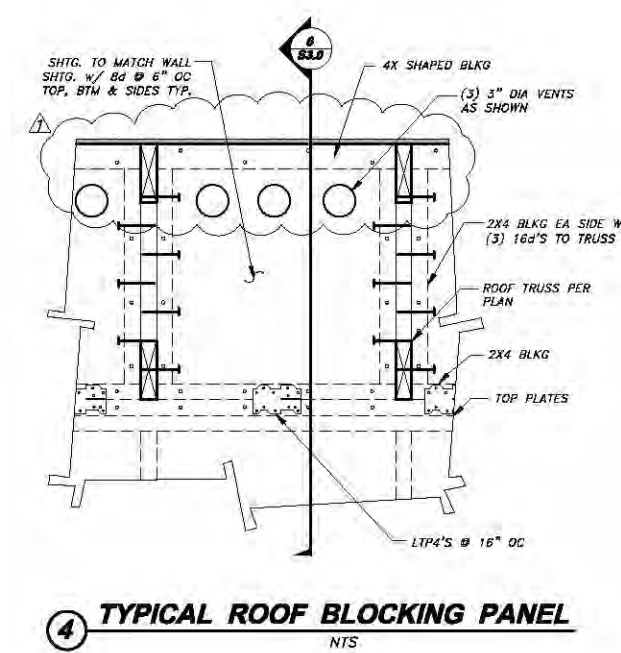
**1 TYPICAL EXTERIOR FOOTING AT DOOR OPENINGS**  
NTS



**2 TYPICAL EXTERIOR FOOTING**  
NTS

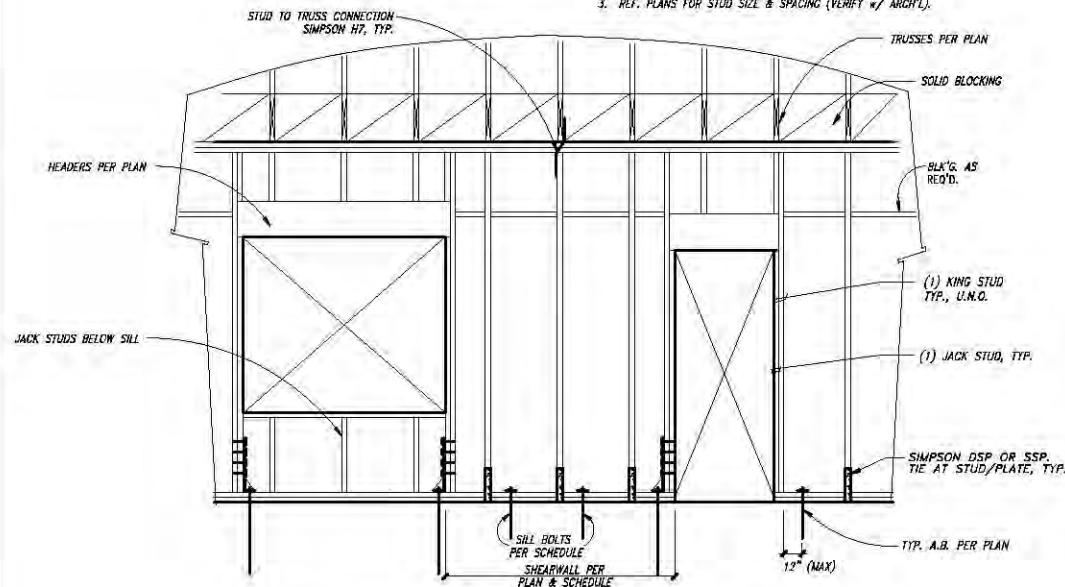


**3 REMOVABLE WALL SECTION BELOW LOUVER**  
NTS

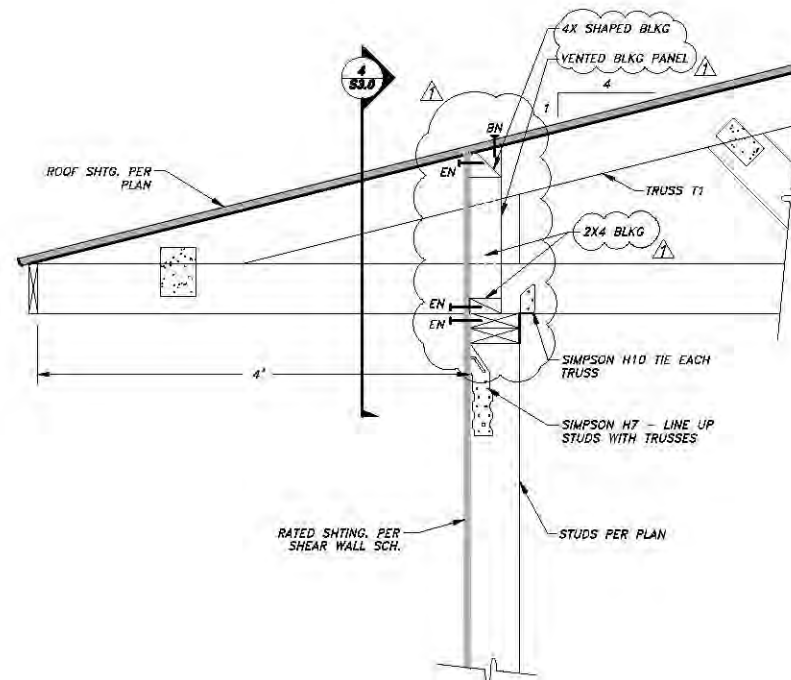


**4 TYPICAL ROOF BLOCKING PANEL**  
NTS

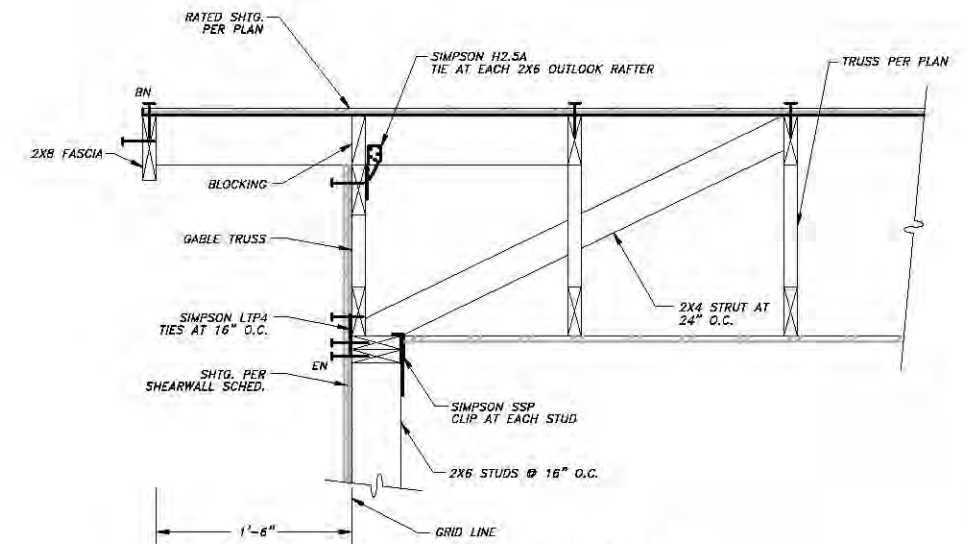
- NOTES:
- WHERE NO STUD TO STUD NAILING IS INDICATED, NAIL STUDS TOGETHER w/ 16d @ 12" o.c., TYP.
  - REF. SHEARWALL SCHEDULE FOR SHEATHING NAILING REQUIREMENTS.
  - REF. PLANS FOR STUD SIZE & SPACING (VERIFY w/ ARCHT.).



**5 TYPICAL SHEAR WALL STUD FRAMING**  
NTS




**6 ROOF TRUSS TO WALL CONNECTION**  
NTS



**7 GABLE END DETAIL**  
NTS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: ADS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET C</b>	
CHECKED BY: MCS	DETAILS	
DRAWN BY: MCP		
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TAB: S3.0 DETAILS	NO. DATE DESCRIPTION	YEAR SHEET NO. TOTAL SHEETS
	3/10/14 ROOF BLOCKING	68433 / 0955014 2013 S3.0 17

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kull* Date 12/13/16



**CONSTRUCTION NOTES:**

- 1 MOUNT EUH TO CHANNEL FRAMING SUPPORTS ATTACHED TO WALL STRUCTURE, LOCATE AT 9'-0" AFF

**SYMBOLS**

- 1 CONSTRUCTION NOTE
- T THERMOSTAT
- ⊕ ACCESS DOOR
- EA EXHAUST AIR
- EAD EXHAUST AIR DAMPER
- EF EXHAUST FAN
- OAD OUTSIDE AIR DAMPER
- OSA OUTSIDE AIR
- RAD RETURN AIR DAMPER
- CONTROL WIRING

**HEATING EQUIPMENT SCHEDULE**

NAME	DESCRIPTION	LOCATION	MANUFACTURE	MODEL/SERIES	WATTAGE RATING:	CONTROLS	FEATURES
EUH-1,2	ELECTRIC UNIT HEATER	GENERATOR BUILDING	QMARK	MUH-0521	3.7KW ⊕ 208V 3-PHASE	LINE VOLTAGE TWO POLE THERMOSTAT	WALL MOUNTING BRACKET, DISCONNECT, MT-2 & MMB-50 OPTION SELECTED.
EUH-3	ELECTRIC UNIT HEATER	STORAGE BUILDING	QMARK	MUH-072	5.6KW ⊕ 208V 3-PHASE	LINE VOLTAGE TWO POLE THERMOSTAT	WALL MOUNTING BRACKET, DISCONNECT, MT-2 & MMB-50 OPTION SELECTED.
T	LINE VOLTAGE THERMOSTAT	BOTH BUILDINGS	WHITE RODGERS	1A10-851	120V / 240V	WALL-MOUNT THERMOSTAT	SINGLE PULL, DOUBLE THROW 36F-90F RANGE

NOTE: SEE PLAN FOR SPECIFIC QUANTITY OF HEATING UNITS

**AUTOMATIC DAMPER SCHEDULE**

NAME	SIZE	MANUFACTURE/ MODEL	ACTION	BLADE CONFIGURATION	ACTUATOR POSITION	ACTUATOR POSITION
OAD-1	48x24	RUSKIN CDTI-50BF	MODULATING	OPPOSED	CLOSED	24V, 60HZ
OAD-2	48x12	RUSKIN CDTI-50BF	OPEN-CLOSED	PARALLEL	CLOSED	24V, 60HZ
RAD-1	36x18	RUSKIN CDTI-50BF	MODULATING	OPPOSED	OPEN	24V, 60HZ
EAD-1	60x42	RUSKIN CDTI-50BF	MODULATING	OPPOSED	CLOSED	24V, 60HZ

**FAN SCHEDULE**

FAN	AREA SERVED	AIR VOLUME (CFM)	T.S.P (INCHES WATER)	DESIGN MANUFACTURER AND MODEL	ELECTRICAL CHARACTERISTICS	FEATURES AND ACCESSORIES	MOUNTING HEIGHTS
EXHAUST FAN, EF	GENERATOR BUILDING	250	0.5	GREENHECK CW-095-G	1/12 HP, 120V, 1ϕ	CENTRIFUGAL SIDEWALL EXHAUST FAN, EXHAUST FAN RPM 1300, OUTLET VELOCITY 215 FPM, INLET 6.7 SONES, ALUMINUM CONSTRUCTION, GRAVITY BACKDRAFT DAMPER, WALL GRILLE.	8'-0"

**MECHANICAL FLOOR PLAN - STORAGE BUILDING**

SCALE: 0 1' 2' 4'



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kull* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

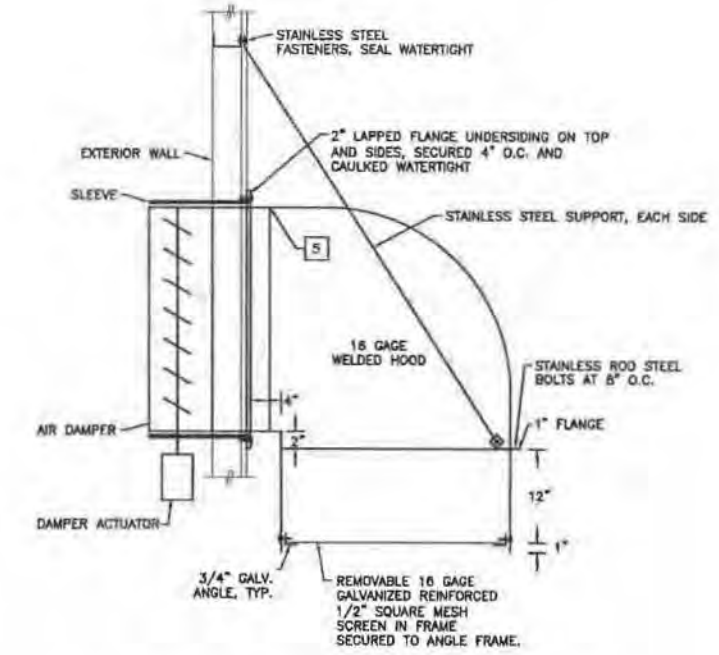
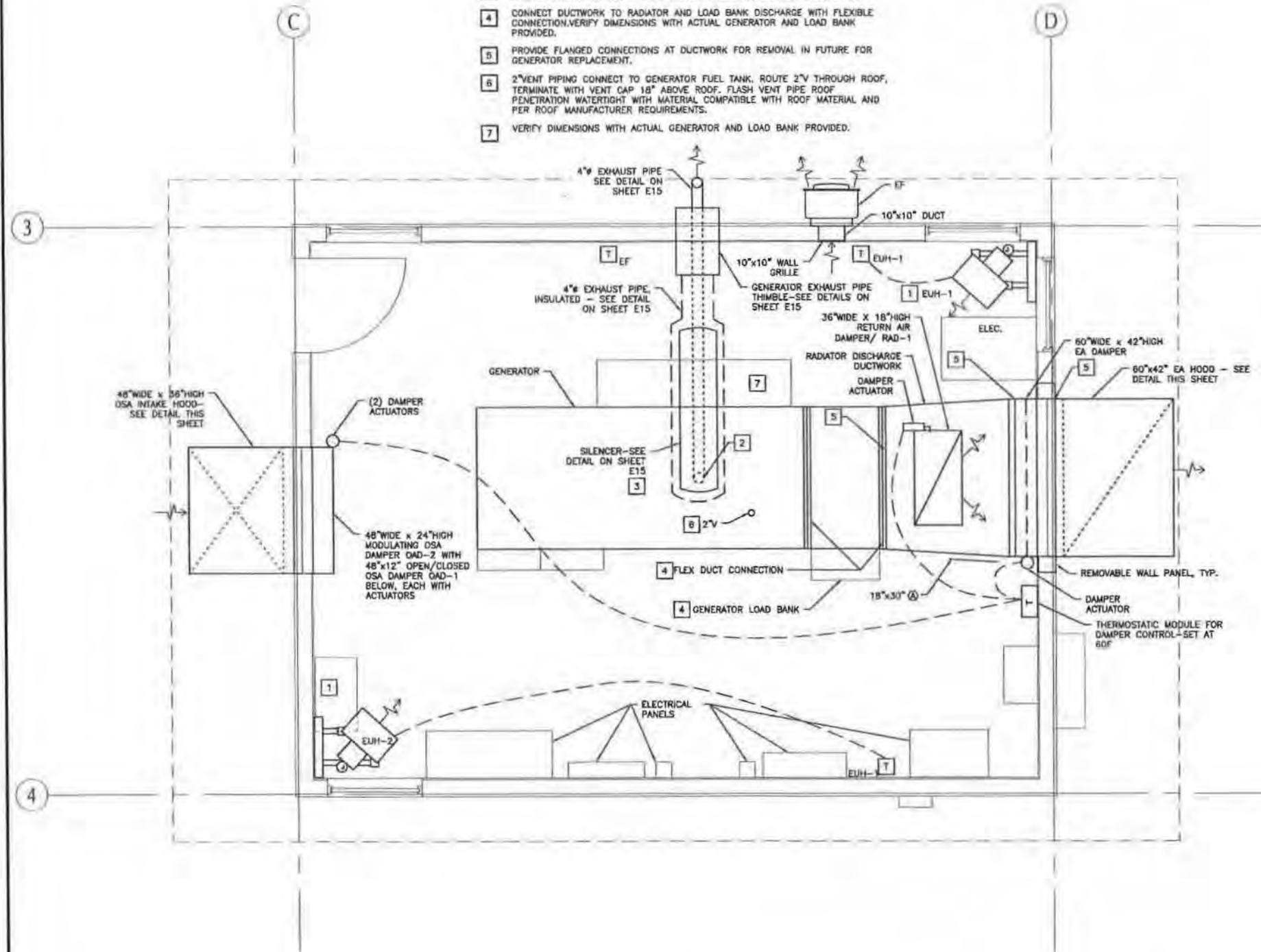
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET C</b>	
<b>MECHANICAL FLOOR PLAN - STORAGE BUILDING</b>		
DESIGNED BY: D. MURRAY CHECKED BY: DM DRAWN BY: BS	PATH: Z:\CURRENT PROJECTS\30\30-7\DRAWINGS\WORKING DRAWINGS\M1.DWG TAB: Wednesday, November 13, 2013 2:48:56 PM	
REVISIONS NO. DATE DESCRIPTION	PROJECT DESIGNATION <b>68433 / 0955014</b>	YEAR SHEET NO. TOTAL SHEETS 2013 M1 17

**CONSTRUCTION NOTES:**

- 1 MOUNT EUM TO CHANNEL FRAMING SUPPORTS ATTACHED TO WALL STRUCTURE. LOCATE AT 9'-0" AFF.
- 2 4" EXHAUST PIPE CONNECT TO GENERATOR OUTLET. INSTALL FLANGED FLEXIBLE CONNECTION, MINIMUM 12" LONG IN VERTICAL. SEE SHEET E13.
- 3 SUPPORT SILENCER FROM ROOF STRUCTURE ON BOTH ENDS AND IN MIDDLE. INSTALL SEISMIC RESTRAINT TYPE VIBRATION ISOLATORS ON EACH SUPPORT.
- 4 CONNECT DUCTWORK TO RADIATOR AND LOAD BANK DISCHARGE WITH FLEXIBLE CONNECTION. VERIFY DIMENSIONS WITH ACTUAL GENERATOR AND LOAD BANK PROVIDED.
- 5 PROVIDE FLANGED CONNECTIONS AT DUCTWORK FOR REMOVAL IN FUTURE FOR GENERATOR REPLACEMENT.
- 6 2" VENT PIPING CONNECT TO GENERATOR FUEL TANK. ROUTE 2" THROUGH ROOF. TERMINATE WITH VENT CAP 18" ABOVE ROOF. FLASH VENT PIPE ROOF PENETRATION WATERTIGHT WITH MATERIAL COMPATIBLE WITH ROOF MATERIAL AND PER ROOF MANUFACTURER REQUIREMENTS.
- 7 VERIFY DIMENSIONS WITH ACTUAL GENERATOR AND LOAD BANK PROVIDED.

**SHEET NOTES:**

1. SEE EXTERIOR ELEVATION DETAILS ON SHEET E14 FOR LOCATIONS OF WALL PENETRATIONS.
2. OUTSIDE AIR DAMPER OAD-2 OPENS WHENEVER GENERATOR OPERATES OR WHEN RESPECTIVE ROOM THERMOSTAT CALL FOR COOLING. CONNECT TO RELAY PROVIDED BY ELECTRICAL. EF ROOM THERMOSTAT SET AT AN ADJUSTABLE 70F.
3. OUTSIDE AIR DAMPER OAD-1 MODULATES RETURN AIR DAMPER RAD-1 AND EXHAUST AIR DAMPER EAD-1 TO MAINTAIN SETPOINT OF THERMOSTATIC MODULE.



NOTE: GRIND ALL WELDS SMOOTH. PRIME AND PAINT WELDED STEEL HOOD AND FASTENERS EXTERIOR AND INTERIOR SURFACES TWO COATS RUST PREVENTIVE PAINT. PAINT TO MATCH BUILDING EXTERIOR COLOR. COORDINATE WITH ARCHITECTURAL.

1 MECHANICAL FLOOR PLAN - GENERATOR BUILDING

SCALE: 0 1' 2' 4'

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kell* Date 12/13/16

2 EXHAUST/INTAKE AIR HOOD

NO SCALE

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET C</b>	
DESIGNED BY: D. MURRAY CHECKED BY: JIM DRAWN BY: EJS		MECHANICAL FLOOR PLAN - <b>GENERATOR BUILDING</b>
PROJECT DESIGNATION: 68433 / 0955014 YEAR: 2013 SHEET NO.: M2 TOTAL SHEETS: 17		



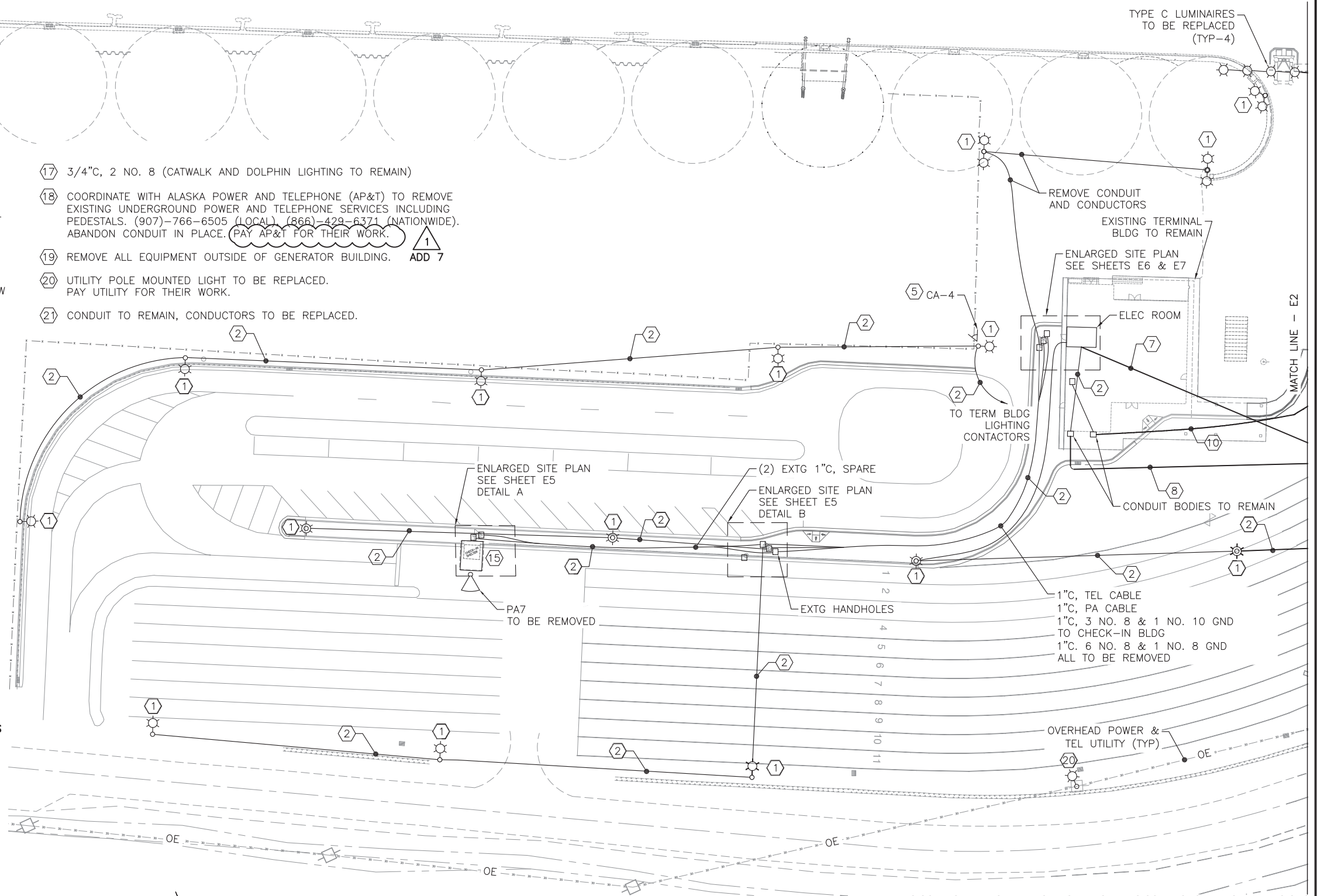
**NOTES: (APPLICABLE TO ALL SHEETS)**

1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
2. PROVIDE ALL WIRING IN CONDUIT.
3. SEE GENERAL NOTES ON SHEET E2.

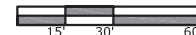
**NOTES (APPLICABLE TO SHEETS E1 AND E2):**

0. REMOVE PORTIONS OF CONDUIT SHOWN TO BE ABANDONED WHERE THEY CONFLICT WITH THE WORK. EXTEND/REPLACE CONDUIT AS REQUIRED WHERE IT IS SHOWN TO BE REROUTED. DISPOSE OF ALL MATERIALS SHOWN TO BE REMOVED. LOCATIONS OF ALL UNDERGROUND CONDUIT AND STRUCTURES ARE BASED UPON ORIGINAL DESIGN DRAWINGS AND MAY NOT BE CORRECT. ADJUST ROUTING OF NEW WORK TO AVOID EXISTING CONDUIT AND STRUCTURES TO REMAIN.
- ① REMOVE LIGHT POLE, LUMINAIRE AND FOUNDATION.
- ② REMOVE CONDUCTORS. REMOVE CONDUIT WHERE NECESSARY TO PERFORM NEW WORK, OTHERWISE ABANDON IN PLACE.
- ③ CONDUIT TO BE REROUTED. CONDUCTORS TO BE REPLACED.
4. ALL EXISTING LIGHTING AND ASSOCIATED CONDUIT AND CONDUCTORS ARE TO REMAIN UNLESS OTHERWISE NOTED.
- ⑤ REMOVE CAMERA. REPLACE IN NEW LOCATION.
- ⑥ 1-1/2" C, 3 NO. 2 AND 1 NO. 8 GND, 2" C, TELEPHONE CABLE AND (3) ADDITIONAL CONDUIT. REMOVE WIRING. ABANDON CONDUIT IN PLACE.
- ⑦ 2-1/2" C, 3 NO. 2 AND 1 NO. 8 GND. REMOVE WIRING. ABANDON CONDUIT BELOW GRADE.
- ⑧ 1" C, 1-1/2" C, 2" C WITH TELEPHONE WIRING. REMOVE WIRING. ABANDON CONDUIT BELOW GRADE.
- ⑨ 1-1/4" C, 3 NO. 4 AND 1 NO. 8 GND (APRON HYDRAULIC PUMP). 3/4" C, 4 NO. 8 (BRIDGE, CATWALK AND DOLPHIN LIGHTING). 1-1/4" C, NO. 14/16 CONDUCTOR CABLE (APRON/ BRIDGE CONTROL PANEL). 2" C, NO. 14/24 CONDUCTOR CABLE (WEST SYNCHRO LIFT CONTROLS). 2" C, NO. 14/24 CONDUCTOR CABLE (EAST SYNCHRO LIFT CONTROLS). 2" C, 6 NO. 4, 2 NO. 8 GND (SYNCHRO LIFT MOTORS), 4 NO. 12 SPARE. 1" C, 2 NO. 10 AND 1 NO. 10 GND (PURSER BUILDING). REMOVE CONDUCTORS, ABANDON CONDUIT BELOW GRADE. REMOVE CABLES AND CONDUCTORS BACK TO ELECTRICAL CABINET. PROVIDE NEW CONDUIT BETWEEN ELECTRICAL CABINET AND NEW GENSET BUILDING. RE-FEED CABLES AND CONDUCTORS FROM GENSET BUILDING IN NEW CONDUIT. EXISTING CONDUIT MAY BE RE-ROUTED/EXTENDED INTO NEW GENSET BUILDING.
- ⑩ 2" C, (4) CAMERA FIBER CABLES, 2 NO. 8 CAMERA POWER 2 NO. 8 SYNCHROLIFT LIGHT POLE POWER 1 NO. 12 GND. TO REMAIN. THIS CONDUIT FEEDS (3) CAMERAS (CA-9, CA-11 & CA-14) AND (2) POLES ON THE MARINE STRUCTURE. IT ALSO FEEDS CAMERA CA-1 ON THE POLE BY THE BRIDGE THAT IS BEING REMOVED. PROVIDE A NEW HANDHOLE IF REQUIRED AND PERFORM ALL WORK TO REMOVE THE CAMERA CABLE TO CA-8. REMOVE THE POLE CAMERA CA-8 IS MOUNTED TO AND CONTINUE TO FEED THE (3) CAMERAS AND (2) POLES ON THE MARINE STRUCTURE.
- ⑪ 2" C, (1) CAMERA FIBER CABLES, 2 NO. 8 CAMERA POWER 1 NO. 12 GND. REMOVE CABLES. ABANDON CONDUIT IN PLACE.
- ⑫ COORDINATE WITH UTILITY TO REMOVE LIGHT FROM POLE.
- ⑬ NOT USED.
- ⑭ NOT USED.
- ⑮ CHECK-IN BUILDING TO BE REMOVED. REMOVE CONDUIT FEEDING BUILDING BACK TO NEAREST HAND HOLES. REMOVE CONDUCTORS.
- ⑯ 1" C, CONDUCTORS. REROUTE CONDUIT TO VAULTS. REPLACE CONDUCTORS. SEE SHEET E3.

- ⑰ 3/4" C, 2 NO. 8 (CATWALK AND DOLPHIN LIGHTING TO REMAIN)
- ⑱ COORDINATE WITH ALASKA POWER AND TELEPHONE (AP&T) TO REMOVE EXISTING UNDERGROUND POWER AND TELEPHONE SERVICES INCLUDING PEDESTALS. (907)-766-6505 (LOCAL) (866)-429-6371 (NATIONWIDE). ABANDON CONDUIT IN PLACE. **PAY AP&T FOR THEIR WORK.**
- ⑲ REMOVE ALL EQUIPMENT OUTSIDE OF GENERATOR BUILDING. **ADD 7**
- ⑳ UTILITY POLE MOUNTED LIGHT TO BE REPLACED. **PAY UTILITY FOR THEIR WORK.**
- ㉑ CONDUIT TO REMAIN, CONDUCTORS TO BE REPLACED.



**ELECTRICAL SITE PLAN - EXISTING**



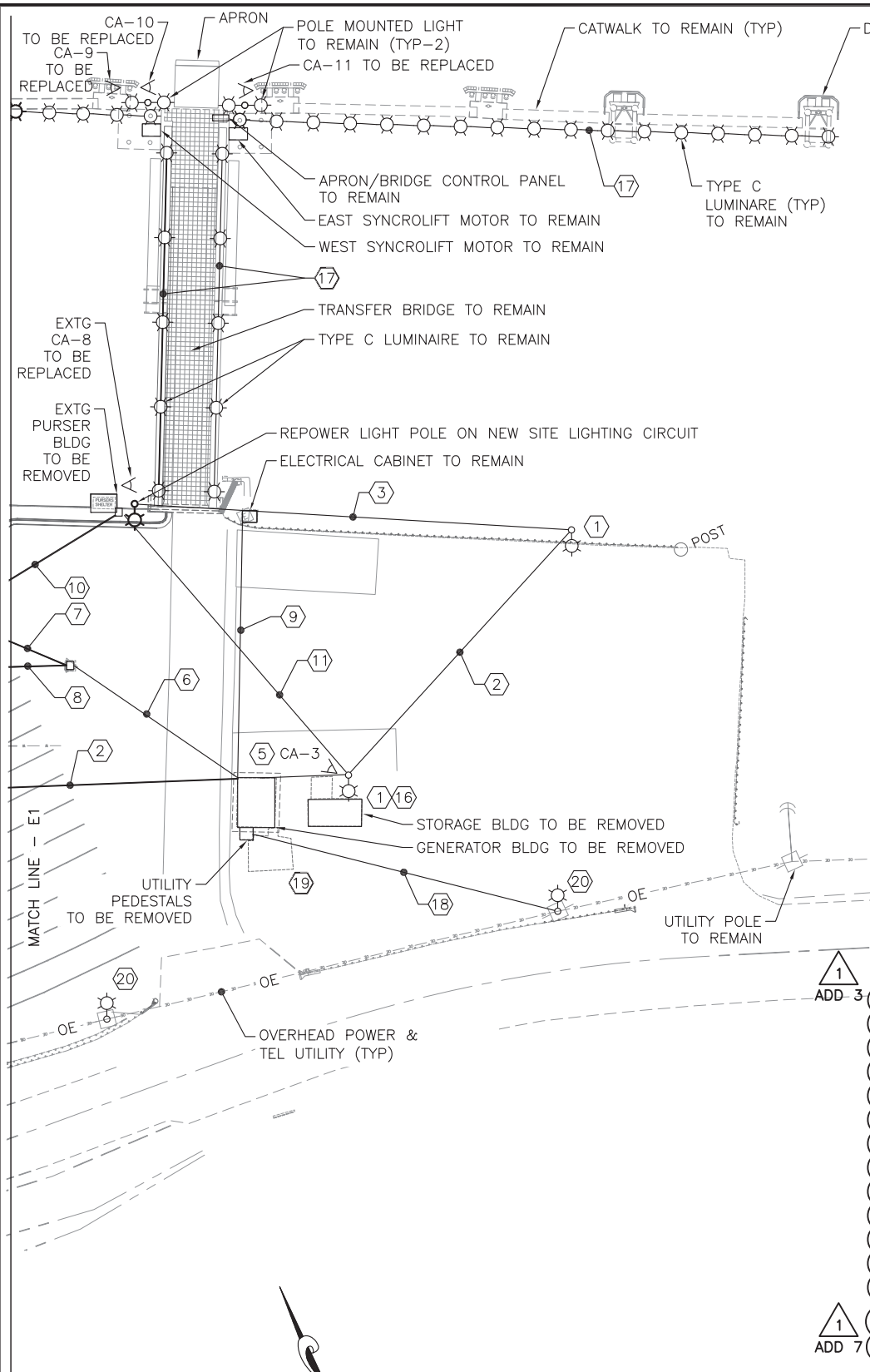
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kelly* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: <b>M. MORRIS</b>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: <b>M. MORRIS</b>		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
DRAWN BY: <b>E. VOGEL</b>		<b>ELECTRICAL SITE PLAN - EXISTING</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\PLAN VIEWS.DWG					
TAB: E1		Wednesday, November 30, 2016 11:13:11 AM		LISA SHERRELL	
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT		2013	E1 38
		<b>68433 / 0955014</b>			



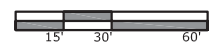
- SHEET NOTE:  
KEYNOTES ON THIS SHEET ARE DESCRIBED ON SHEET E1.
- GENERAL NOTES: (APPLICABLE TO ALL SHEETS)
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
  - PERFORM ALL WORK PER 2014 NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND STANDARDS.
  - ALL PART NUMBERS ARE GIVEN AS A GUIDE TO WHAT MATERIAL IS BEING SPECIFIED. THEY ARE BASED UPON INFORMATION AVAILABLE DURING DESIGN AND MAY NOT BE ACCURATE. VERIFY ALL PART NUMBERS DURING BIDDING AND CHANGE AS REQUIRED TO CONFORM TO DRAWINGS AND SPECIFICATIONS. THE DRAWINGS SHALL NOT BE USED AS A BILL OF MATERIALS.
  - PROVIDE ANTI-SIEZE COMPOUND ON ALL WIRING TERMINATIONS. PROVIDE NM SPACERS TO ISOLATE DIFFERENT MATERIAL TYPES.
  - MOUNT ALL OF THE OUTDOOR ELECTRICAL EQUIPMENT IN THE LOCATIONS SHOWN ON THE CIVIL DRAWINGS. LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE.
  - FIELD TREAT ALL HOT DIPPED GALVANIZED MATERIALS THAT ARE CUT, DRILLED, SCRATCHED OR DAMAGED. SEE CIVIL FOR FIELD TREATMENT.
  - ALL CONDUCTORS SHALL BE COPPER, ALL INSULATION SHALL BE 600V RATED. TYPE XHHW FOR CONDUCTORS NOT IN A CABLE. ALL CABLES SHALL BE THE TYPE SPECIFIED, NO SUBSTITUTIONS.
  - TREAT ALL EXPOSED THREADS WITH BRAKE CLEANER, THEN COAT WITH MARINE TRAILER WHEEL BEARING GREASE BEFORE APPLYING A STAINLESS STEEL WASHER AND NUT.
  - OUTDOORS, USE 316 STAINLESS STEEL BOLTS, WASHERS, ETC. TO MOUNT ELECTRICAL EQUIPMENT AND STRUT CHANNEL. ALL FASTENERS AND OTHER EXPOSED HARDWARE SHALL BE 316 STAINLESS STEEL.
  - SEAL ALL PENETRATIONS IN ELECTRICAL EQUIPMENT WITH UL LISTED HARDWARE FOR SUCH USE. USE RUBBER OR SILICONE WASHERS IN ADDITION TO STAINLESS STEEL WASHERS.
  - USE 316 STAINLESS STEEL STRUT CHANNEL (UNISTRUT) TO SUPPORT CABLES, PANELS, CONTACTORS, AND ALL OTHER ELECTRICAL EQUIPMENT. TRIM STRUT CHANNEL 1/4" SHORT OF EDGE OF EQUIPMENT AND POSTS. SAND END OF STRUT CHANNEL SMOOTH. USE CUSHION STRAPS WHEN SUPPORTING CABLE TO STRUT CHANNEL.
  - THE PANELS, SWITCHBOARD, AND CONTACTORS SHALL BE MADE BY SQUARE D OR APPROVED EQUAL MANUFACTURERS ARE PROVIDED FOR OTHER EQUIPMENT SHOWN ON FLOOR PLANS AND SITE PLANS. THE DESIGN IS BASED UPON EQUIPMENT BY THESE MANUFACTURERS ALL NECESSARY CHANGES IN MOUNTING DETAILS, MOUNTING LOCATIONS, BUILDING DIMENSIONS, ETC. SHALL BE MADE AT THE CONTRACTOR'S EXPENSE IN ORDER TO ACCOMMODATE APPROVED SUBSTITUTE EQUIPMENT. SUBSTITUTIONS ARE REVIEWED FOR COMPLIANCE WITH CONTRACT DOCUMENTS DURING THE SUBMITTAL PROCESS THAT OCCURS AFTER CONTRACT AWARD. SUBSTITUTIONS MAY NOT BE APPROVED.
  - PROVIDE OXIDE INHIBITING COMPOUND ON ALL ELECTRICAL CONNECTIONS. BURNDY PENTROX TYPE A OR E AS REQUIRED.
  - ALL LUGS AND ELECTRICAL TERMINALS SHALL BE COPPER OR TIN PLATED HIGH CONDUCTIVE ALUMINUM.
  - COORDINATE WITH OTHER TRADES TO PERFORM THE ELECTRICAL WORK. STUDY THE OTHER PLANSETS TO UNDERSTAND HOW OTHER WORK IMPACTS THE ELECTRICAL WORK AND HOW TO INSTALL THE ELECTRICAL EQUIPMENT AND MATERIALS. INSTALL EQUIPMENT AND MATERIALS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. STUDY THE DRAWINGS, COORDINATE WITH OTHER TRADES, DETERMINE HOW TO AND PROVIDE ALL WORK (MATERIALS AND LABOR) TO MOUNT EQUIPMENT, ROUTE CONDUIT, ROUTE CABLES AND WIRING, AND ALL OTHER DETAILS OF THE INSTALLATION TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE BACKING PLATES, BLOCKING, MOUNTING HARDWARE, NECESSARY PRODUCT ACCESSORIES AND OPTIONS, SUPPORTS, STRUCTURAL CHANNEL, AS REQUIRED. NOTIFY OTHER TRADES AND COORDINATE WITH THEM THE SEQUENCE OF INSTALLING THE ELECTRICAL WORK. IF PORTIONS OF OTHER WORK HAS TO WAIT UNTIL THE ELECTRICAL WORK IS DONE, VERIFY ADEQUATE TIME IS ALLOTTED IN THE CONSTRUCTION SCHEDULE TO ALLOW THE ELECTRICAL WORK TO BE DONE AND MAKE SURE OTHER TRADES HONOR THE SCHEDULE TO ALLOW THE ELECTRICAL WORK TO BE DONE. IT IS UP TO THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO WORK TOGETHER AS REQUIRED TO PROVIDE THE WORK SHOWN ON THE CONTRACT DOCUMENTS.
  - DRILL A 1/4" HOLE IN ALL CONDUIT ELBOWS INSTALLED UNDERGROUND AND LOW POINTS OF UNDERGROUND CONDUIT TO ALLOW THEM TO DRAIN. DRILL THE HOLES PRIOR TO INSTALLATION. DE BURR THE HOLES AND FIELD TREAT HOT DIPPED GALVANIZED ELBOWS PRIOR TO INSTALLATION. SEE NOTE 6.
  - PAY AP&T FOR ALL THEIR WORK INCLUDING DEMOLITION OF POWER AND TELEPHONE SERVICES, NEW POWER AND TELEPHONE SERVICES AND WORK ON TELEPHONE SYSTEMS, NEW UTILITY POLES, AND NEW LIGHTING AS SHOWN ON THE DRAWINGS.

### LEGEND

<p><b>DESCRIPTION</b></p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AFG ABOVE FINISHED GRADE</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>AUX AUXILIARY</p> <p>BLDG BUILDING</p> <p>20/3 CIRCUIT BREAKER (AMPS/POLES)</p> <p>CONDUIT WITH CONDUCTORS. SEE PLANS FOR SIZE AND QUANTITY.</p> <p>CONTACTOR</p> <p>CT CURRENT TRANSFORMER</p> <p>DATA JACK</p> <p>DISCONNECT</p> <p>DOUBLE DUPLEX RECEPTACLE</p> <p>DUPLEX RECEPTACLE</p> <p>EMERGENCY EXIT LIGHT</p> <p>EXTG EXISTING</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FUSE</p> <p>GRS GALVANIZED RIGID STEEL</p> <p>GND GROUND</p> <p>GROUND BUS</p> <p>GFI GROUND FAULT INTERRUPTER</p> <p>HEAT DETECTOR</p> <p>HOME RUN</p> <p>HPOE HIGH POWER OVER ETHERNET</p> <p>HORN STROBE</p> <p>INDUSTRIAL CONTROL RELAY. NUMBER INDICATES RELAY NUMBER.</p> <p>JUNCTION BOX</p> <p>LIGHT POLE W/ LUMINAIRE.</p> <p>LFMC LIQUIDTIGHT, FLEXIBLE, METALLIC CONDUIT</p> <p>LFNC LIQUIDTIGHT, FLEXIBLE, NONMETALLIC CONDUIT, TYPE A, AS DEFINED IN 2008 NEC ARTICLE 356.2(1)</p> <p>LUMINAIRE FLOURESCENT</p> <p>METER CONNECTION</p> <p>NM NON METALLIC</p> <p>NORMALLY CLOSED CONTACT. NUMBER INDICATES RELAY NUMBER.</p>	<p><b>DESCRIPTION</b></p> <p>N.O. NORMALLY OPEN</p> <p>NORMALLY OPEN CONTACT. NUMBER INDICATES RELAY NUMBER.</p> <p>OCCUPANCY SENSOR</p> <p>OVERHEAD ELECTRIC</p> <p>OVERLOAD RELAY</p> <p>OVERLOAD PROTECTION</p> <p>PA SPEAKER</p> <p>L1 POLE IDENTIFIER (SHEET E18)</p> <p>PULL STATION</p> <p>PUSH TO TEST INDICATING LIGHT. LETTER INDICATES COLOR.</p> <p>PUSHBUTTON</p> <p>REC RECEPTACLE</p> <p>SECURITY CAMERA</p> <p>S SINGLE POLE SWITCH</p> <p>SHUNT TRIP CIRCUIT BREAKER (AMPS/POLES)</p> <p>SMOKE DETECTOR</p> <p>WALLMOUNT OCCUPANCY SWITCH LEVITON OSSMT-GQW</p> <p>S.S. STAINLESS STEEL</p> <p>TEL TELEPHONE</p> <p>TELEPHONE JACK</p> <p>TTB TELEPHONE TERMINAL BLOCK</p> <p>TERMINAL BLOCK CONTACT</p> <p>120V, 22A THERMOSTAT W/ TEMPERATURE INDICATOR</p> <p>TIME CLOCK</p> <p>TRANSFORMER</p> <p>TELEPHONE TERMINAL BLOCK</p> <p>TYP TYPICAL</p> <p>UG UNDERGROUND</p> <p>UNIT HEATER</p> <p>WALL MOUNT LUMINAIRE</p> <p>WP WEATHERPROOF</p> <p>W/ WITH</p> <p>V1 VAULT (NO.)</p>
---	---

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT APPEAR IN THIS DRAWING SET.

**ELECTRICAL SITE PLAN - EXISTING**



THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

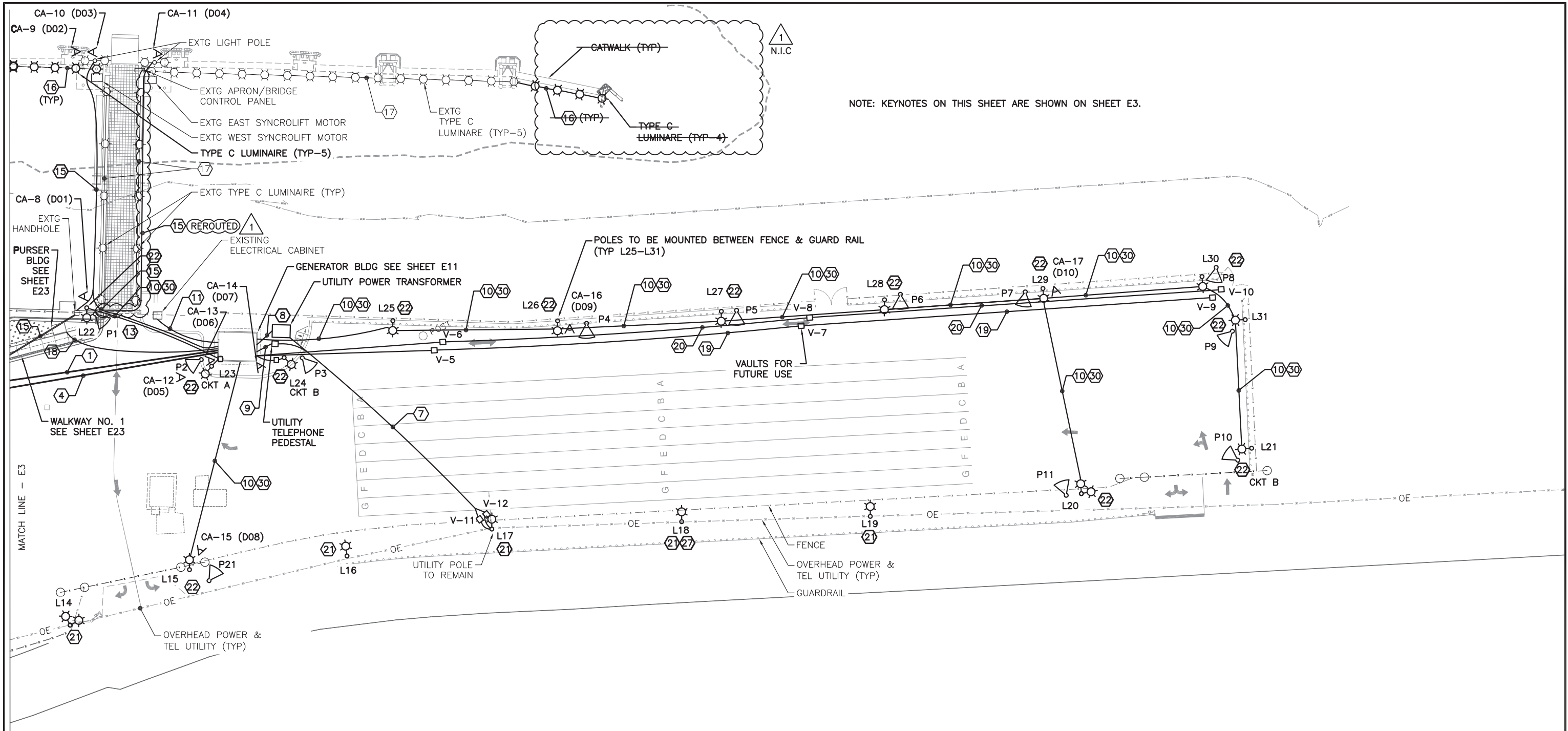
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>	
		<b>ELECTRICAL SITE PLAN - EXISTING</b>	
CHECKED BY: M. MORRIS		PROJECT DESIGNATION	
DRAWN BY: E. VOGEL		YEAR	
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LISA SHERRELL			
REVISIONS			
NO.	DATE	DESCRIPTION	
1	11-16	AS-BUILT	68433 / 0955014 2013 E2 38





NOTE: KEYNOTES ON THIS SHEET ARE SHOWN ON SHEET E3.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kull* Date 12/13/16

**ELECTRICAL SITE PLAN - NEW**



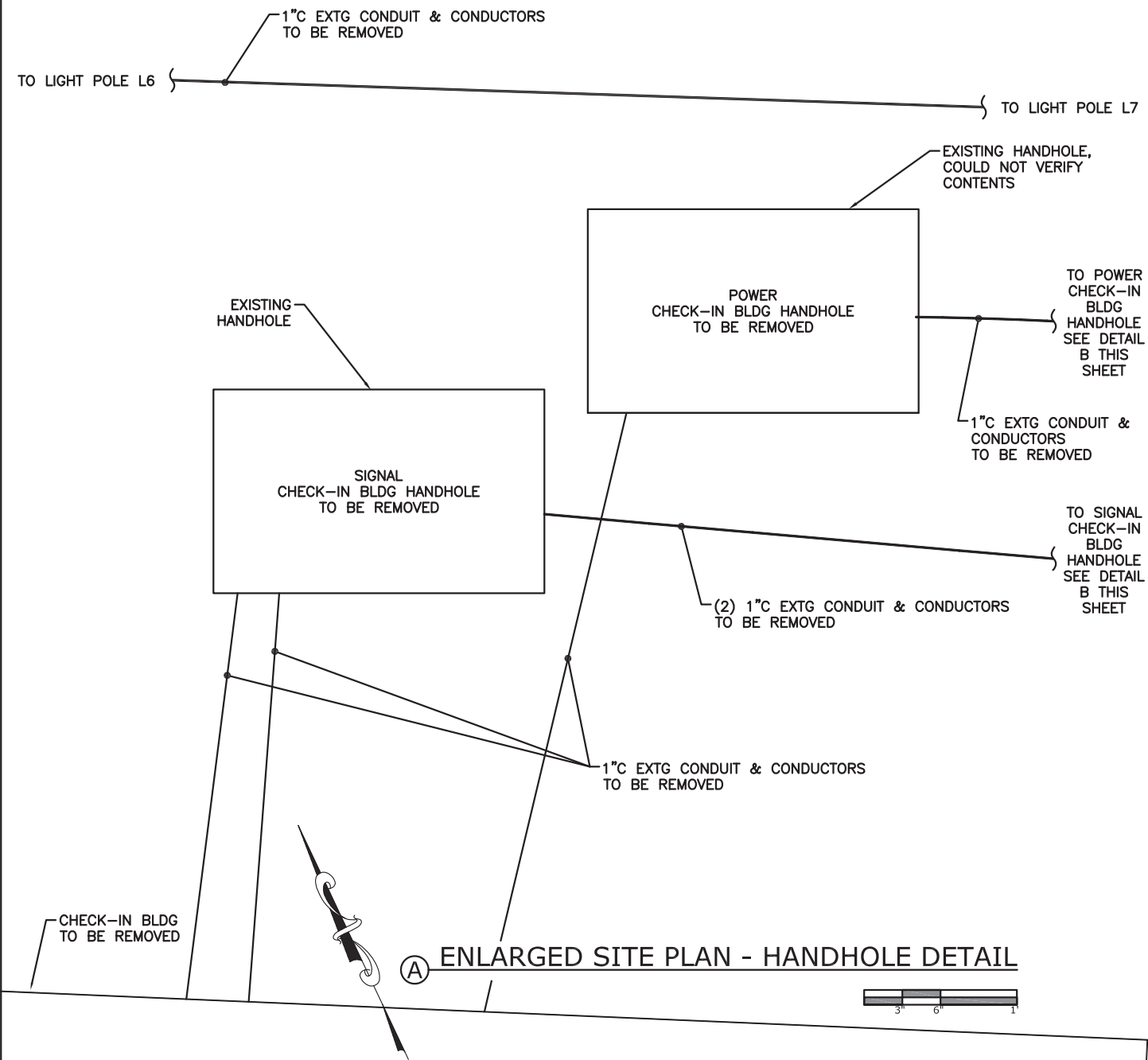
THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

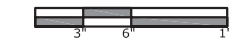
DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
		<b>ELECTRICAL SITE PLAN - NEW</b>			
CHECKED BY: M. MORRIS		PROJECT DESIGNATION		YEAR	SHEET NO.
DRAWN BY: E. VOGEL		68433 / 0955014		2013	E4
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NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT			38

NOTE:

THE CHECK-IN BUILDING IS TO BE REMOVED. THESE TWO HANDHOLES CONTAIN POWER AND SIGNAL CONDUCTORS FOR THE CHECK-IN BUILDING. REMOVE HANDHOLES, CONDUIT AND CONDUCTORS. CONDUIT MAY BE ABANDONED IN PLACE WHERE IT DOES NOT INTERFERE WITH NEW WORK.

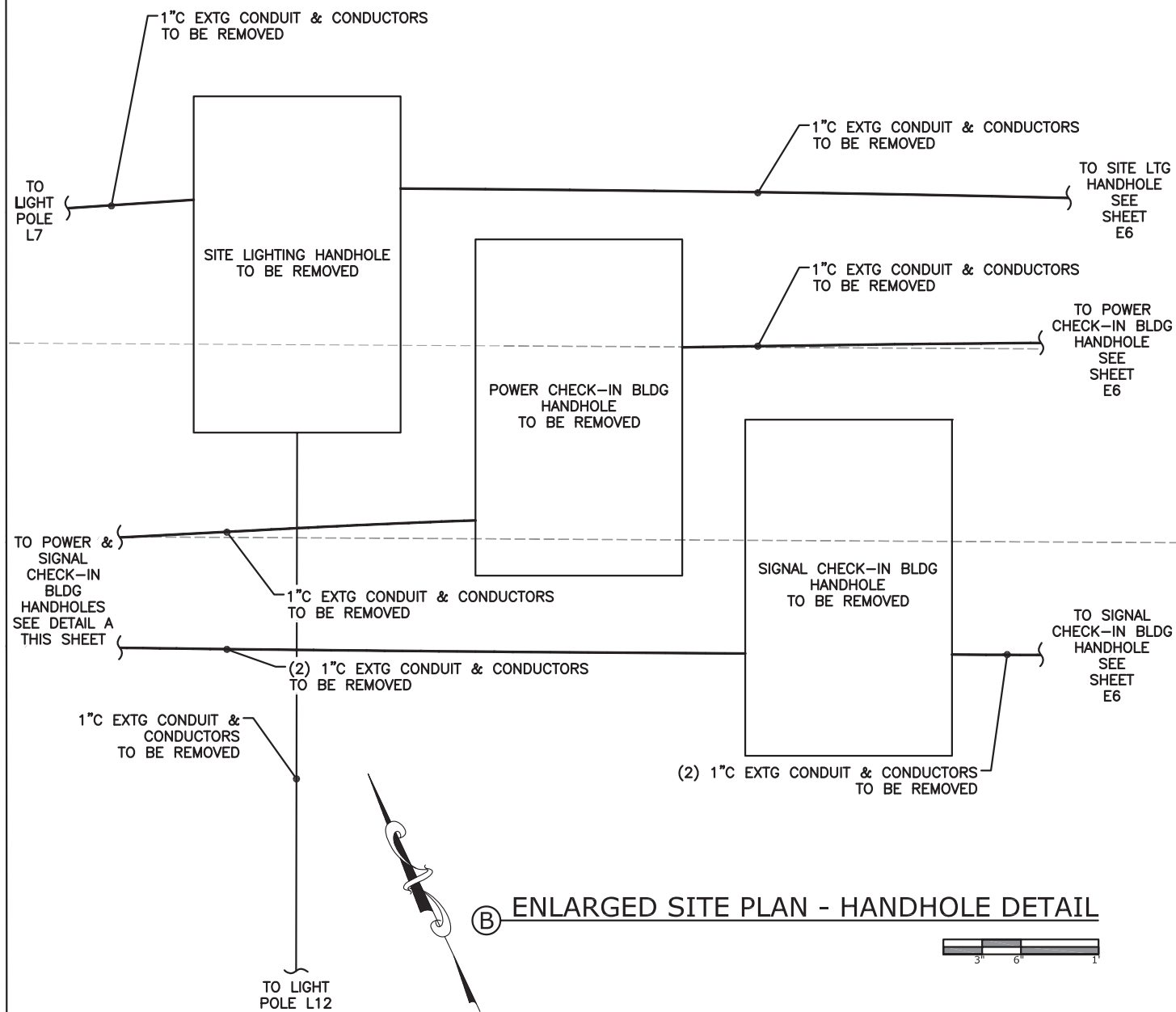


**A** ENLARGED SITE PLAN - HANDHOLE DETAIL

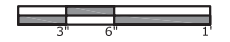


NOTE:

THESE THREE HANDHOLES CONTAIN POWER AND SIGNAL CONDUCTORS FOR THE CHECK-IN BUILDING AND POWER FOR SITE LIGHTING. REMOVE HANDHOLES, CONDUIT AND CONDUCTORS. CONDUIT MAY BE ABANDONED IN PLACE WHERE IT DOES NOT INTERFERE WITH NEW WORK.



**B** ENLARGED SITE PLAN - HANDHOLE DETAIL



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

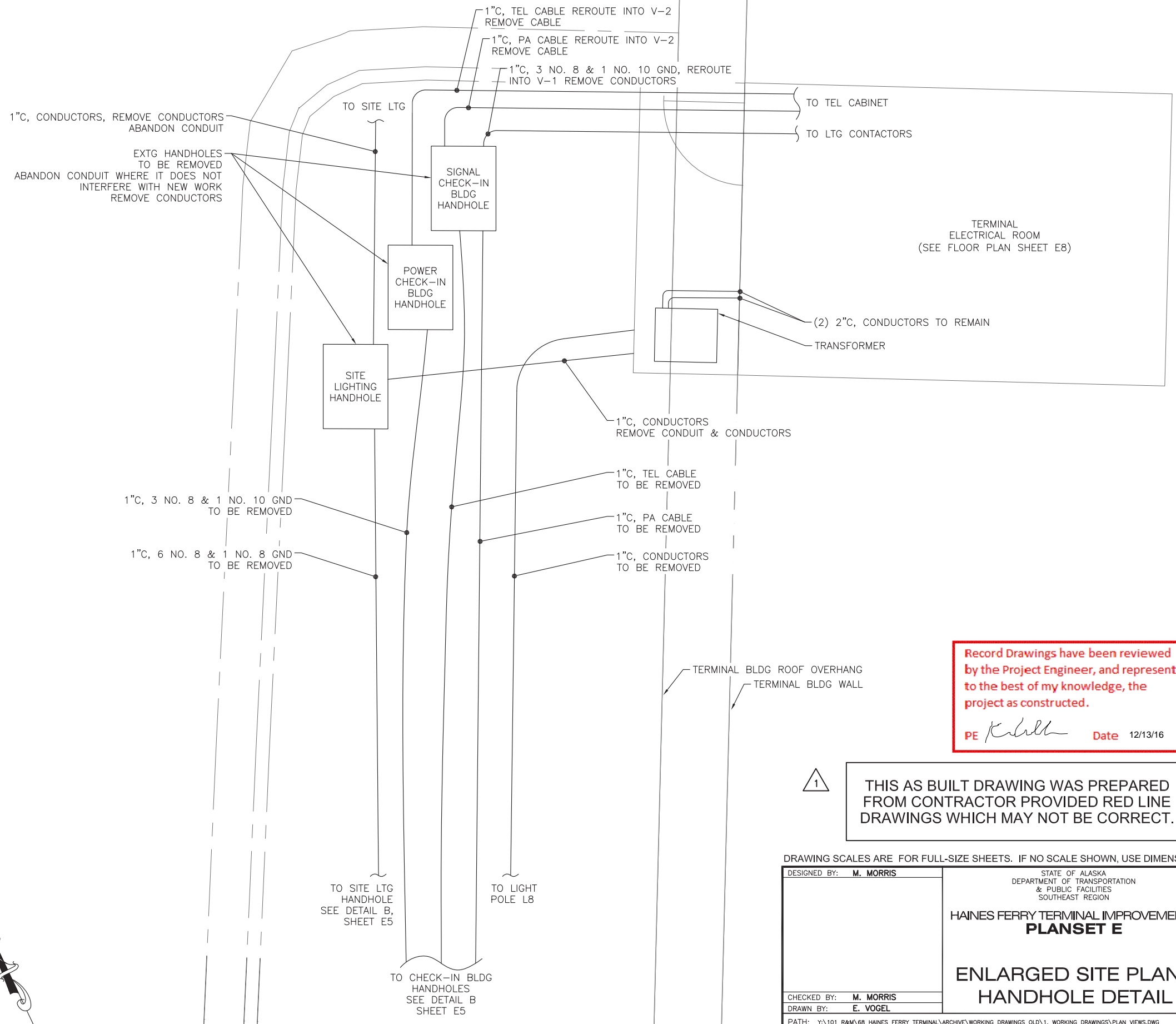
PE *K. Kullb* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
		<b>ENLARGED SITE PLAN - HANDHOLE DETAILS</b>			
CHECKED BY: M. MORRIS					
DRAWN BY: E. VOGEL					
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\PLAN VIEWS.DWG					
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REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.
NO.	DATE	DESCRIPTION			TOTAL SHEETS
1	11-16	AS-BUILT	<b>68433 / 0955014</b>		<b>2013 E5 38</b>





Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

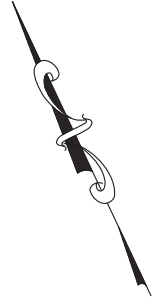
PE *K. Kullback* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

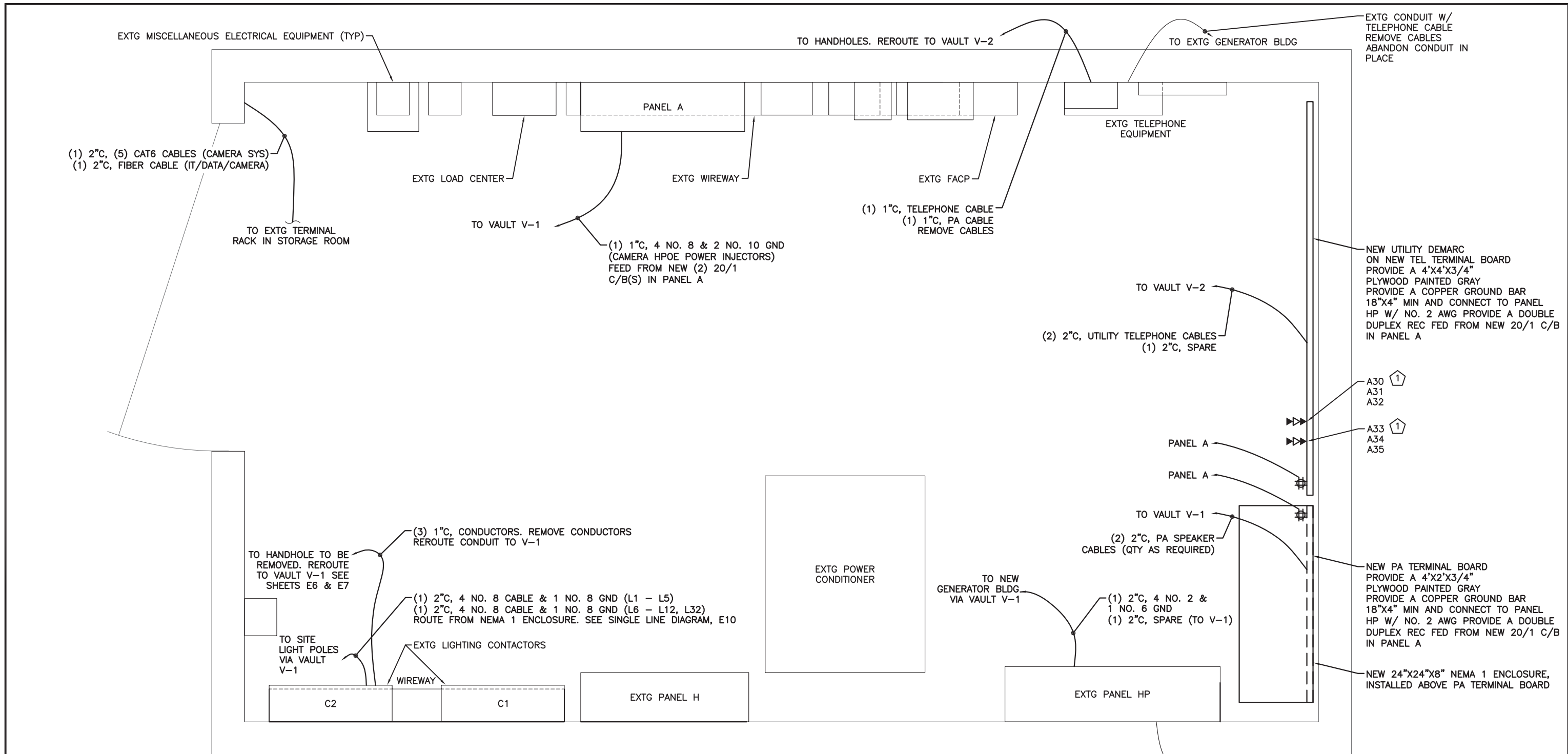
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>ENLARGED SITE PLAN - HANDHOLE DETAIL</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\PLAN VIEWS.DWG					
TAB: E6		Wednesday, November 30, 2016 11:13:36 AM		LISA SHERRELL	
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.
NO.	DATE	DESCRIPTION			TOTAL SHEETS
1	11-16	AS-BUILT		68433 / 0955014	2013 E6 38

© ENLARGED SITE PLAN - HANDHOLE DETAIL - EXISTING  
NO SCALE







NOTE:  
 ① THREE CAT6 DROPS (FLUSH MOUNTED RJ45 RECEPTACLES IN JUNCTION BOX).

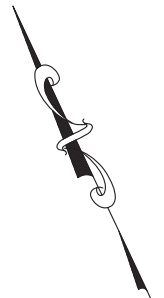
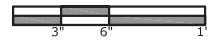
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
		<b>TERMINAL ELEC ROOM - FLOOR PLAN</b>			
CHECKED BY: M. MORRIS		PROJECT DESIGNATION		YEAR	SHEET NO.
DRAWN BY: E. VOGEL		68433 / 0955014		2013	E8
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\EB.DWG		TOTAL SHEETS		38	
TAB: EB		Wednesday, November 30, 2016 11:13:51 AM		LISA SHERRELL	
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT			

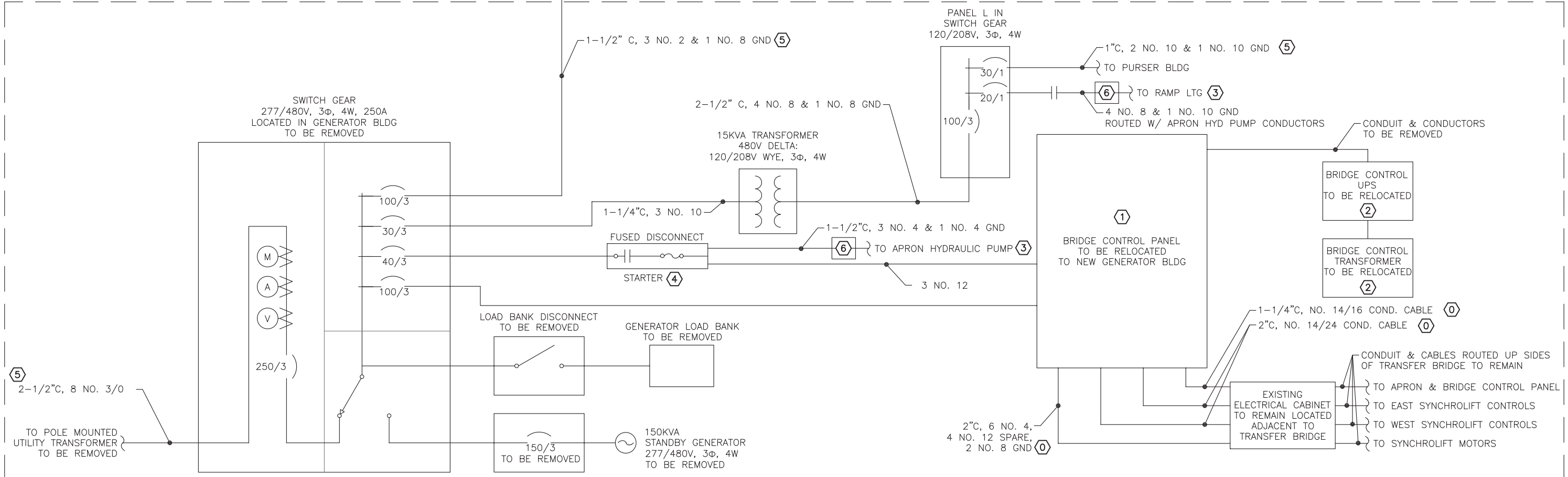
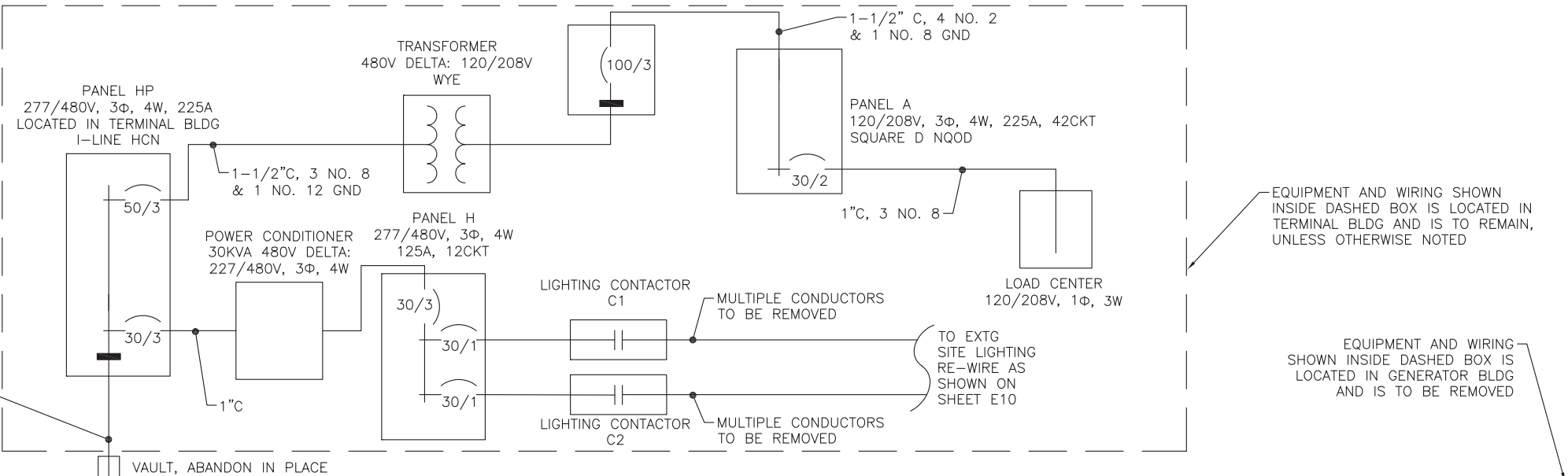
① THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

**TERMINAL ELECTRICAL ROOM - FLOOR PLAN**



1 THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kelly* Date 12/13/16



- NOTES:
- ① AS BUILT CABLE CONNECTIONS IN BRIDGE CONTROL PANEL, REMOVE CABLES FROM PANEL. LABEL INDIVIDUAL CONDUCTORS FOR CLARITY. RE-TERMINATE CABLES IN RELOCATED PANEL IN NEW GENERATOR BUILDING. HIRE BOREAL CONTROLS (907-586-8367) TO STARTUP, TEST, AND RE-COMMISSION RELOCATED PANEL AFTER ALL CABLE TERMINATIONS ARE COMPLETE.
  - ② AS BUILT WIRING TO DEVICE. REMOVE WIRING AND RE-WIRE AFTER DEVICE IS RELOCATED TO NEW GENERATOR BUILDING. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED TO RECONNECT TO BRIDGE CONTROL SYSTEM AND NEW POWER AS REQUIRED.

- ③ THE POWER CONDUCTORS FOR THE BRIDGE, CATWALK, AND DOLPHIN LIGHTING AS WELL AS THE APRON HYDRAULIC PUMP SHALL BE PULLED OUT OF EXISTING CONDUIT BACK TO THE ELECTRICAL CABINET ADJACENT TO THE BRIDGE, THEN PULLED IN NEW CONDUIT TO NEW GENERATOR BUILDING. CONNECT TO CONTACTOR AND STARTER AS SHOWN ON SHEET E10.
- ④ THE CONTROL WIRING FOR THE APRON HYDRAULIC PUMP STARTER COMES THROUGH THE BRIDGE CONTROL CABLE. AS BUILT THE WIRING TO THE STARTER AND THEN REMOVE IT BACK TO EXISTING CABINET BY BRIDGE. PULL THE EXISTING WIRING THROUGH NEW CONDUIT AND RECONNECT IT TO THE NEW STARTER IN THE NEW GENERATOR BUILDING.
- ⑤ REMOVE CONDUCTORS, ABANDON CONDUIT IN PLACE.
- ⑥ EXISTING ELECTRICAL CABINET TO REMAIN. LOCATED ADJACENT TO TRANSFER BRIDGE.

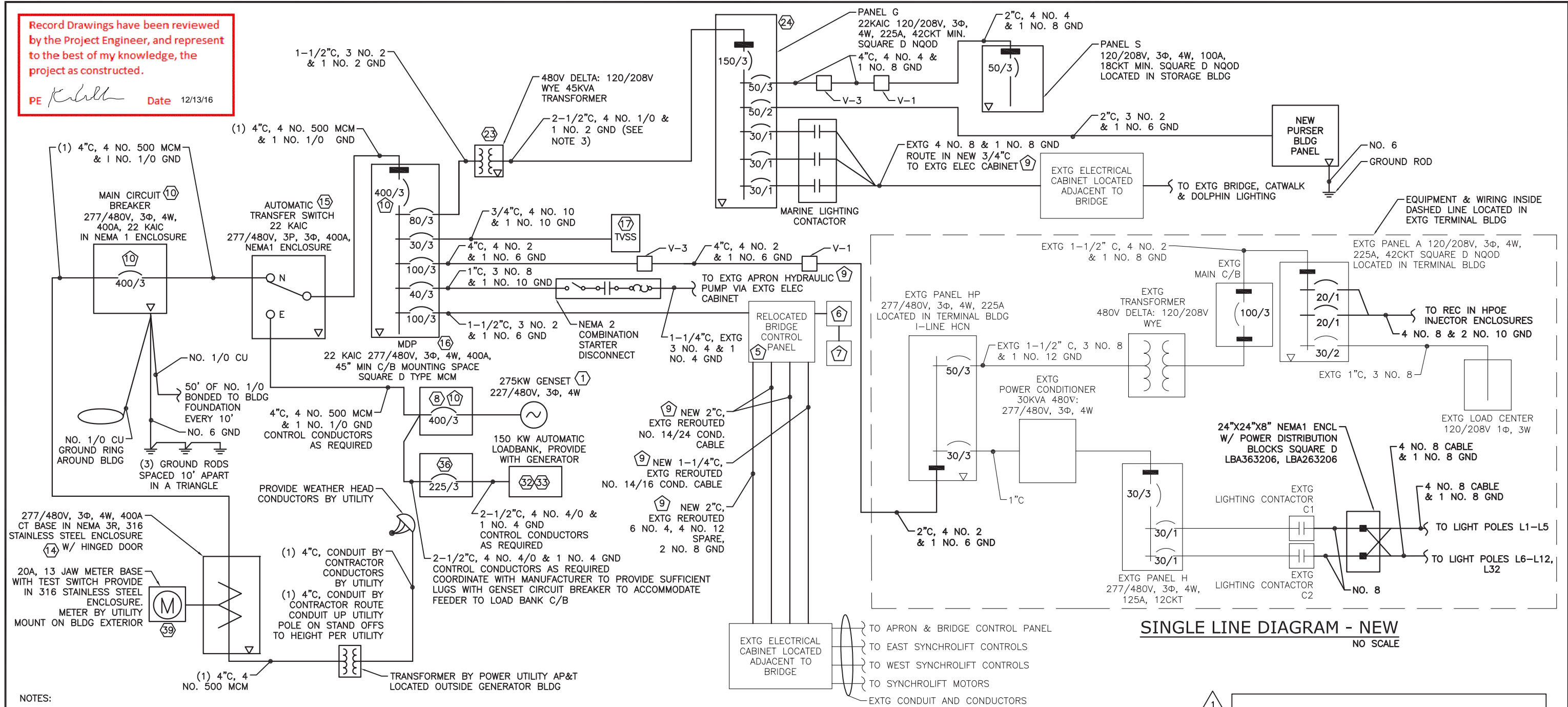
**SINGLE LINE DIAGRAM - EXISTING**  
 NO SCALE

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>	
DRAWN BY: E. VOGEL		<b>SINGLE LINE DIAGRAM - EXISTING</b>	
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REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
1	11-16	AS-BUILT	38
68433 / 0955014		2013	E9

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kelly* Date 12/13/16



**SINGLE LINE DIAGRAM - NEW**  
NO SCALE

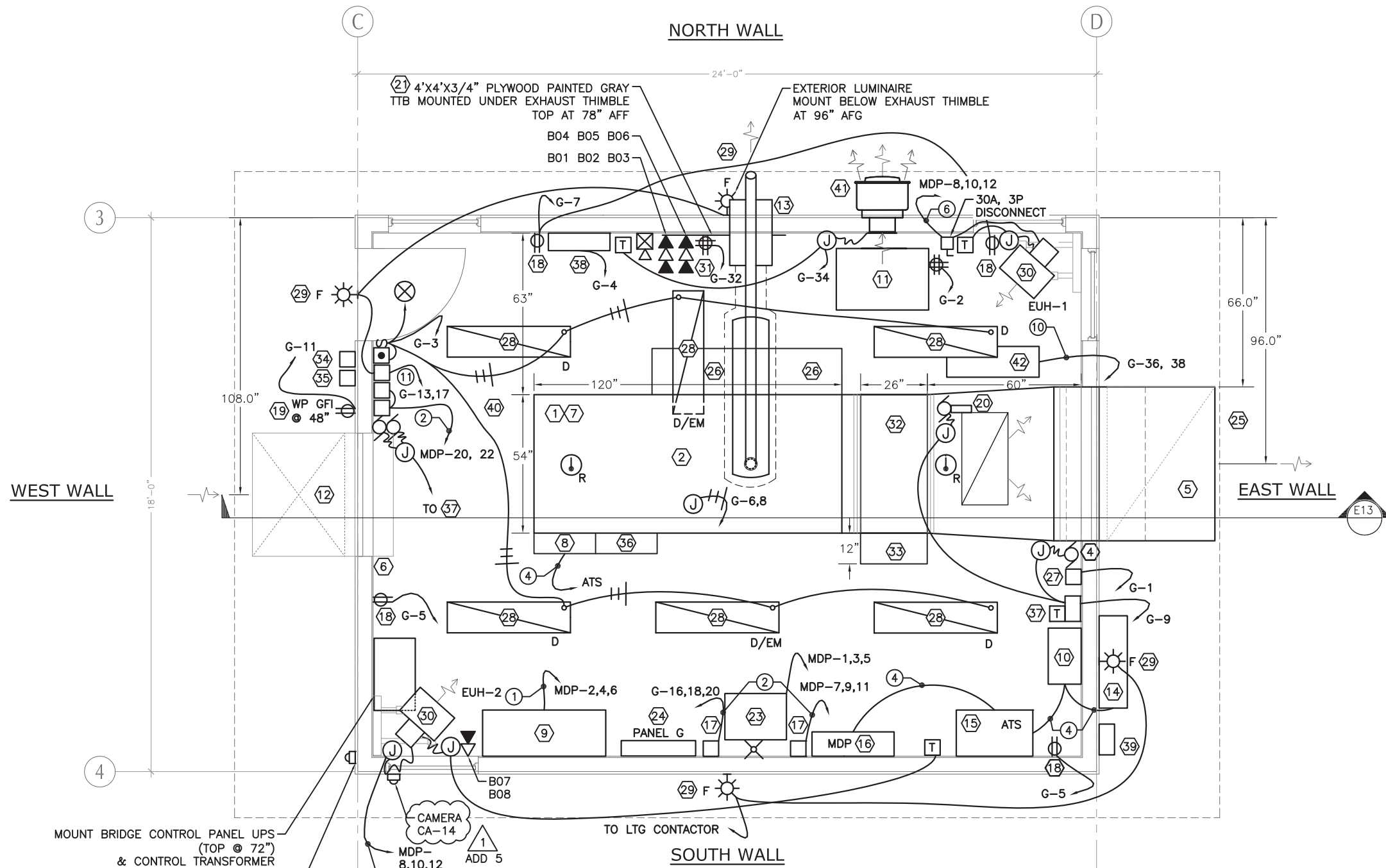
THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

NOTES:

- COORDINATE WITH AP&T TO PROVIDE A NEW SERVICE TO THE NEW GENERATOR BUILDING. PROVIDE POWER TO THE EXISTING TERMINAL BUILDING AND EXISTING PURSER BUILDING WITH NEW FEEDERS. PROVIDE POWER TO THE NEW STORAGE BUILDING WITH A NEW FEEDER.
- RE-FEED THE EXISTING APRON HYDRAULIC PUMP, EXISTING BRIDGE, CATWALK, AND DOLPHIN LIGHTING FROM THE NEW GENERATOR BUILDING. REUSE EXISTING CONDUIT AND CONDUCTORS FROM EXISTING ELECTRICAL CABINET TO THE LOADS. THE APRON HYDRAULIC PUMP IS CONTROLLED BY A CABLE SHARED WITH THE BRIDGE CONTROL PANEL. AS BUILT THIS CONTROL IN EXISTING GENERATOR BUILDING AND CONTROL NEW STARTER IN NEW GENSET BUILDING IN SAME MANNER. SEE NOTE 9
- BOND NEUTRAL TO GROUND BUSS AT MAIN CIRCUIT BREAKER AND AT TRANSFORMER SECONDARY. DO NOT BOND NEUTRAL TO GROUND AT ANY OTHER POINT. THIS INCLUDES THE GENSET.
- THE TRANSFORMER SECONDARY FEEDER THAT FEEDS PANEL G SHALL BE NO MORE THAN 10' LONG.
- AS BUILT CABLE CONNECTIONS IN EXISTING BRIDGE CONTROL PANEL AND REMOVE CABLES FROM PANEL BACK TO EXISTING ELECTRICAL CABINET. LABEL INDIVIDUAL CONDUCTORS FOR CLARITY. PULL CABLES IN NEW CONDUIT TO NEW GENERATOR BUILDING. RE-TERMINATE CABLES IN RELOCATED CONTROL PANEL IN NEW GENERATOR BUILDING.
- RELOCATED CONTROL UPS. RE-WIRE TO BRIDGE CONTROL PANEL AS REQUIRED.
- RELOCATED BRIDGE CONTROL TRANSFORMER. RE-WIRE TO BRIDGE CONTROLS AS REQUIRED.
- SEE EQUIPMENT SCHEDULE ON SHEET E12 FOR EQUIPMENT KEYNOTE NUMBERS NOT DESCRIBED ON THIS SHEET.
- REUSE EXISTING CONTROL CABLES AND POWER CONDUCTORS BY PULLING THEM BACK TO EXISTING ELECTRICAL CABINET BY BRIDGE THEN PULLING THEM IN NEW CONDUIT TO NEW GENSET BUILDING. REPLACE DAMAGED CABLES/CONDUCTORS BY SPLICING THEM ON POWER DISTRIBUTION BLOCKS (SQUARE D 9080 SERIES) WITH PLASTIC COVERS IN EXISTING ELECTRICAL CABINET AND PROVIDING NEW CONDUCTORS/CABLES TO NEW GENERATOR BUILDING. EXISTING CONDUIT MAY BE REROUTED/EXTENDED FROM CABINET TO GENERATOR BUILDING.
- 100% RATED CIRCUIT BREAKER.
- RELOCATE EXISTING BRIDGE CONTROL PANEL WITH UPS AND CONTROL TRANSFORMER FROM EXISTING GENERATOR BUILDING TO NEW GENERATOR BUILDING. SEE NOTE 9

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>	
DRAWN BY: E. VOGEL		<b>SINGLE LINE DIAGRAM - NEW</b>	
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REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
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TOTAL SHEETS		68433 / 0955014	2013



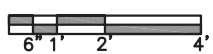
- NOTES:
- ① 1-1/2"C, 3 NO. 2 & 1 NO. 6 GND
  - ② 3/4"C, 4 NO. 10 & 1 NO. 10 GND
  - ③ 1-1/2"C, 3 NO. 2 & 1 NO. 2 GND
  - ④ 4"C, 4 NO. 500 & 1 NO. 1/0 GND
  5. PROVIDE WIRING FOR GENERATOR AND LOAD BANK AS REQUIRED.
  - ⑥ 3/4"C, 3 NO. 10 & 1 NO. 10 GND
  7. NOT USED.
  8. SEE EQUIPMENT SCHEDULE ON SHEET E12 FOR EQUIPMENT KEYNOTE NUMBERS.
  9. FIELD VERIFY ALL DIMENSIONS BASED UPON ACTUAL EQUIPMENT SIZE. DIMENSIONS SHOWN BASED UPON CUMMINS DQDAB GENSET. ADJUST EQUIPMENT LOCATIONS AS REQUIRED TO MEET CODE CLEARANCES AND TO FIT PROPERLY IN BUILDING.
  - ⑩ 3/4" C, 3 NO. 12 & 1 NO. 12 GND.
  - ⑪ (4) LIGHTING CONTACTORS. SEE SHEET E18. PROVIDE WIREWAY BELOW CONTACTORS. ROUTE SPEAKER CABLE CONDUIT INTO WIREWAY. ROUTE ALL CONDUIT TO LIGHT POLES INTO WIREWAY. ROUTE HPOE REPEATER POWER INTO WIREWAY. SIZE WIREWAY AS REQUIRED. MIN 12"X12"X3'.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

**GENERATOR BUILDING - FLOOR PLAN- NEW**



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
		<b>GENERATOR BUILDING - FLOOR PLAN - NEW</b>			
CHECKED BY: M. MORRIS					
DRAWN BY: E. VOGEL					
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E11.DWG					
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REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION		SHEET NO.	TOTAL SHEETS
1	11-16	AS-BUILT		68433 / 0955014 E11	38

# ① EQUIPMENT SCHEDULE

- ① GENERATOR: 275 KW AT 0.8PF, 277/480V, 3φ, 4 WIRE. PROVIDE WITH 150 KW AUTOMATIC LOAD BANK W/ 5KW LOAD STEPS. PROVIDE THE GENERATOR WITH THREE CUSTOMER CONFIGURABLE RELAYS TO CONTROL THE LOAD BANK AFTER THE GENERATOR HAS RUN FOR 3 MINUTES AND DURING THE COOL DOWN CYCLE. MOUNT LOAD BANK CIRCUIT BREAKER NEXT TO GENERATOR CIRCUIT BREAKER ON THE SIDE OF THE GENERATOR. PROGRAM THE LOAD BANK TO OPERATE WHENEVER GENERATOR IS RUNNING EXCEPT DURING COOL DOWN. RUN CONTROL CONDUCTORS TO GENERATOR RELAYS TO DUMP LOAD BANK DURING COOL DOWN. PROVIDE CTS IN AUTOMATIC TRANSFER SWITCH AND ALL NECESSARY CONTROL WIRING TO ATS AND GENERATOR TO START THE LOAD BANK AUTOMATICALLY WHEN THE GENERATOR HAS BEEN RUNNING FOR 3 MINUTES. PROVIDE AUTOMATIC LOAD LEVELING TO MAINTAIN A 150 KW LOAD ON THE GENERATOR WHEN THE LOAD BANK IS ON. DISCONNECT THE LOAD BANK FROM THE GENERATOR DURING THE GENERATOR COOL DOWN. PROVIDE 15 MINUTES MINIMUM OF GENERATOR COOL DOWN INCLUDING COOL DOWN OF LOAD BANK ELEMENTS. PROVIDE ALL CONDUIT, WIRING, AND PROGRAMMING REQUIRED. MOUNT ON (4 MIN) ISOLATION PADS. BOLT TO PAD WITH EARTHQUAKE ANGLE STOPS. GENSET (FOOTPRINT IS 54"W X 120"L X 104"H) CUMMINS DQDAB SERIES OR CATERPILLAR C9275EKW SERIES.
- ② GENSET SILENCER AND EXHAUST PIPE. SIZE PIPE AND SILENCER PER GENSET MANUFACTURER'S REQUIREMENTS. PROVIDE RESIDENTIAL GRADE SILENCER. SEE DETAIL SHEET E15.
- ③ EXHAUST COOLING AIR DUCT, SEE MECHANICAL.
- ④ EXHAUST DAMPER, SEE MECHANICAL.
- ⑤ EXHAUST HOOD, SEE MECHANICAL.
- ⑥ INTAKE DAMPER(S), SEE MECHANICAL. CONNECT LOWER DAMPER TO OPEN WITH GENSET OPERATION AND WITH ROOM TEMPERATURE CONTROLLER. CONNECT UPPER DAMPER TO THERMOSTATIC MODULE FOR DAMPER CONTROL. SEE KEYNOTE NUMBER 37, THIS SHEET.
- ⑦ SUBBASE FUEL TANK WITH SPILL CONTAINMENT AND DRAIN VALVE. (SIZE FOR 24 HRS. AT FULL LOAD) PROVIDE WITH TANK QUANTITY INDICATOR, LOW FUEL ALARM CONTACTS, AND VENT PIPING. VENT TANK TO OUTSIDE, SEE MECHANICAL. USE BLACK IRON PIPE FOR VENT PIPING. SIZE PER MANUFACTURER RECOMMENDATIONS. PAINT WITH RUST-PROOF PAINT. ROUTE ACROSS FLOOR ON UNISTRUT. FUEL TANK SHALL BE MANUFACTURED BY GENSET MANUFACTURER FOR THE MODEL OF GENSET PROVIDED.
- ⑧ GENSET MAIN CIRCUIT BREAKER.
- ⑨ SYNCROLIFT BRIDGE CONTROL PANEL.
- ⑩ MOLDED CASE CIRCUIT BREAKER, 400A IN NEMA 1 ENCLOSURE.
- ⑪ GENERATOR BUILDING RACK.
- ⑫ INTAKE HOOD, SEE MECHANICAL.
- ⑬ EXHAUST THIMBLE. SEE DETAIL SHEET E15.
- ⑭ METERED CURRENT TRANSFORMER, 277/480, 3φ, 4W, 400A, BASE IN NEMA 3R STAINLESS STEEL ENCLOSURE W/ HINGED DOOR. MOUNT TOP AT 72" AFG.
- ⑮ AUTOMATIC TRANSFER SWITCH, MOUNT TOP AT 72" AFF, 400A ONAN OTPC SERIES.
- ⑯ PANEL MDP, MOUNT TOP SO HIGHEST CIRCUIT BREAKER IS NOT ABOVE 72" AFF, SQUARE D I-LINE TYPE HCM. 45" MINIMUM CIRCUIT BREAKER MOUNTING SPACE.
- ⑰ TVSS DEVICE. MOUNT TOP AT 60" AFF. TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICE. 80KA SURGE CURRENT (8x20ms) PER PHASE, PROTECTION MODES: L-N, L-L, N-G. LIEBERT A1127Y101RKE. FOR CONNECTION TO MDP PROVIDE LED INDICATORS AND ALARM CONTROLS. LIEBERT A11120Y101RKE FOR CONNECTION TO PANEL G.
- ⑱ GENERAL USE RECEPTACLE.
- ⑲ WEATHERPROOF DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER.
- ⑳ RETURN AIR DAMPER, SEE MECHANICAL.
- ㉑ TELEPHONE TERMINAL BOARD. PROVIDE WITH A 4"x18" COPPER GROUND BAR CONNECTED TO MPD W/ NO. 2 AWG.

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- ⑳ BRIDGE CONTROL UPS AND CONTROL TRANSFORMER.
- ㉑ STEP DOWN TRANSFORMER. 480V DELTA: 120/208V WYE, 3φ, 4W 45 KVA. FLOOR MOUNT. SQUARE D EE 45T3HCU.
- ㉒ PANEL G. MOUNT TOP AT 72" AFF. SQUARE D NQOD SERIES.
- ㉓ EXHAUST AIR SHROUD, SEE MECHANICAL.
- ㉔ GENSET BATTERY. 12V. PROVIDE SIZE TO CRANK ENGINE FOR 30 MINUTES CONTINUOUSLY.
- ㉕ 12V, 10A, AUTOMATIC BATTERY CHARGER.
- ㉖ FLUORESCENT ARCHITECTUAL WRAPAROUND LUMINAIRE. LITHONIA AW 332120GEB. PROVIDE WITH ELECTRONIC BALLAST, (3) 32W T8 LAMPS, CRI 80 MINIMUM, 3500K. PROVIDE LUMINAIRE WITH EMERGENCY BALLAST WHERE SHOWN.
- ㉗ WALL MOUNT EXTERIOR LUMINAIRE, 50W PULSE START METAL HALIDE WITH DEEP SHIELD REFLECTOR. RUUD E8405-1P. PROVIDE WITH HIGH POWER FACTOR BALLAST. MOUNT AT 10' AFG, EXCEPT WHERE NOTED OTHERWISE. POLYCARBONATE LENS.
- ㉘ WALL MOUNT UNIT HEATER, 480V, 3φ, 3.7 KW. AIR FLOW CAN BE ADJUSTED DOWNWARD. QMARK MUH SERIES WITH OPTIONS MT-2 AND MMB-5. MOUNT 24" BELOW CEILING.
- ㉙ PROVIDE DOUBLE DUPLEX RECEPTACLE AT TELEPHONE TERMINAL BOARD (TTB). ALSO PROVIDE A COPPER GROUND BAR MINIMUM 4" X 18". MOUNT TO TBB. CONNECT TO MDP WITH NO. 2 AWG.
- ㉚ RADIATOR MOUNTED 150 KW AUTOMATIC LOAD BANK. SIMPLEX LBD-SERIES WITH ATTACHMENT FLANGE, MOUNTING FEET AND ISOLATOR.
- ㉛ AUTOMATIC LOAD BANK CONTROL PANEL.
- ㉜ GENERATOR EMERGENCY STOP IN ENCLOSURE.
- ㉝ REMOTE GENERATOR ALARM STROBE LIGHT AT 84" AFG. PROVIDE POWER TO STROBE LIGHT FROM PANEL G WITH AN INTERPOSING RELAY IN A NEMA 1 ENCLOSURE ON WALL. CONNECT TO GENERATOR CONTROL PANEL TO ENERGIZE LIGHT WITH GENERATOR ALARM.
- ㉞ AUTOMATIC LOAD BREAK CIRCUIT BREAKER.
- ㉟ THERMOSTATIC MODULE DAMPER CONTROL. SEE MECHANICAL. PROVIDE ALL WIRING TO DAMPER MOTORS AND OTHER SYSTEM EQUIPMENT NECESSARY FOR PROPER OPERATION.
- ㊱ ADDRESSABLE FIRE ALARM PANEL. SEE RISER DIAGRAM, SHEET E22.
- ㊲ REMOTE 13 JAW, 20 AMP METER BASE W/TEST SWITCH IN 316 STAINLESS STEEL ENCLOSURE.
- ㊳ 6"x6"x4" NEMA 4X 316L STAINLESS STEEL ENCLOSURE ON SIDE OF STORAGE BUILDING. ROUTE 2" CONDUIT TO TTB IN TERMINAL BUILDING. ROUTE 3/4" CONDUIT TO JUNCTION BOX WITH RJ11 JACK IN STORAGE BUILDING.
- ㊴ WALL MOUNT EXHAUST FAN, SEE MECHANICAL. MOUNT TOP OF GRILL 4" BELOW CEILING.
- ㊵ FUEL POLISHING SYSTEM. MOUNT TO FLOOR TO CEILING STRUT CHANNEL (SECURE TO FLOOR AND CEILING) MOUNT TO 36"x36"x3/4" PLYWOOD BACKBOARD PAINTED WHITE. TOP AT 6" AFF. CONNECT TO FUEL TANK WITH FLEXIBLE PIPING. COORDINATE WITH GENSET MANUFACTURER TO PROVIDE CORRECT OPENINGS AND MODIFICATIONS IN FUEL TANK. RCI TECHNOLOGIES, FRS 660-5-OF-UL OR EQUAL. NEMA 4, 508A LISTED SYSTEM TO REMOVE 99.9% OF WATER AND 95% OF DUST, DIRT, SLUDGE, ALGAE, AND ALL OTHER NORMAL AND NATURAL CONTAMINATES FOUND IN DIESEL FUEL. THE FUEL PURIFIER SHALL BE GREEN CLEAN CERTIFIED AND HAVE NO MOVING PARTS OR FILTERS. THERE SHALL BE NO ELEMENTS OR CARTRIDGES TO CLEAN, CHANGE, OR REPLACE. PROVIDE WITH OPERATOR TOUCH PANEL INTERFACE, BRASS INLET AND OUTLET BALL VALVES, BRASS SWING CHECK VALVES, SYSTEM EMERGENCY SHUT DOWN POINTS, RECIRCULATING PUMP WITH PRESSURE RELIEF SAFETY SWITCH, CABINET LEAK SENSOR WITH ALARM CONTACTS AND PUMP SHUTOFF. FUEL PURIFIER, WATER SENSOR ALARM AND MAGNETIC FUEL DECONTAMINATION UNIT. PERFORM ALL WORK REQUIRED FOR AN OPERATIONAL SYSTEM.

## ② PANEL MDP SCHEDULE

PANEL MDP		SIZE	VOLTS, PHASE				MOUNTING		MAIN	LOCATION		
		400A	277/480V, 3φ, 4W				SURFACE		400A	GENERATOR BUILDING		
CKT NO	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO			
			CKT	Aφ	Bφ	Cφ						
1	PANEL G	80/3	5.8	16.8			11	100/3	BRIDGE CONTROL PANEL	2		
3	----	----	4.8		15.8		11	----	----	4		
5	----	----	5.5				11	----	----	6		
7	TVSS	30/3	0.1	2.1			2.0	15/3	HEATERS EUH-1, EUH-2	8		
9	----	----	0.1		2.1		2.0	----	----	10		
11	----	----	0.1			2.1	2.0	----	----	12		
13	APRON HYDRAULIC PUMP	40/3	6.0	16.0			10.0	100/3	PANEL HP TERMINAL BUILDING	14		
15	----	----	6.0		16.0		10.0	----	----	16		
17	----	----	6.0			16.0	10.0	----	----	18		
19			0.0	1.5			1.5	30/1	SITE LIGHTING - SECURITY CKT A	20		
21			0.0		2.7		2.7	30/1	SITE LIGHTING - OPERATIONS CKT B	22		
23			0.0			0.0	0.0			24		
TOTAL CONNECTED LOAD = 107.6 KVA/ 129 AMPS			36.4	36.6	34.6							

**NOTES:**

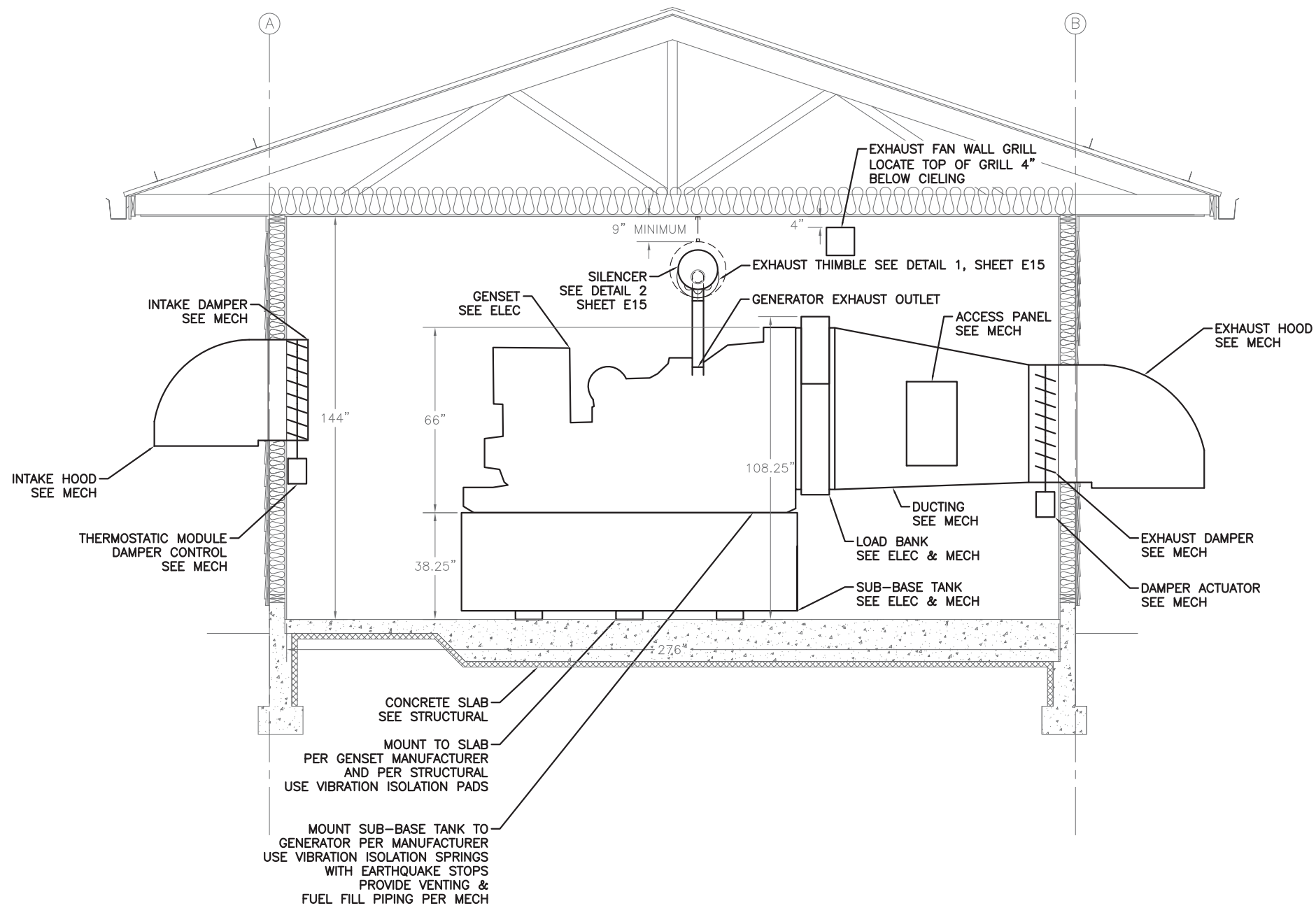
1. SEE GENERATOR BUILDING LAYOUT ON SHEET E11.
2. ALL EQUIPMENT SHALL BE SURFACE MOUNTED. ALL CONDUIT SHALL BE SURFACE MOUNTED.
3. THE GENERATOR BUILDING LAYOUT IS DRAWN TO SCALE. ALL NEC CLEARANCE REQUIREMENTS ARE MET WITH THE EQUIPMENT SHOWN. IF SUBSTITUTIONS ARE MADE FOR THE EQUIPMENT SHOWN, VERIFY THAT THE NEW EQUIPMENT SIZE WILL ALLOW COMPLIANCE WITH NEC CLEARANCE REQUIREMENTS. ADJUST EQUIPMENT LOCATIONS AS REQUIRED TO FIT IN BUILDING.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

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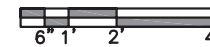
DESIGNED BY: M. MORRIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION				
<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>					
<b>GENSET EQUIPMENT &amp; PANEL MDP SCHEDULE</b>					
CHECKED BY: M. MORRIS					
DRAWN BY: E. VOGEL					
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	<b>68433 / 0955014</b>	<b>2013</b>	<b>E12 38</b>



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GENERATOR BUILDING - SECTION



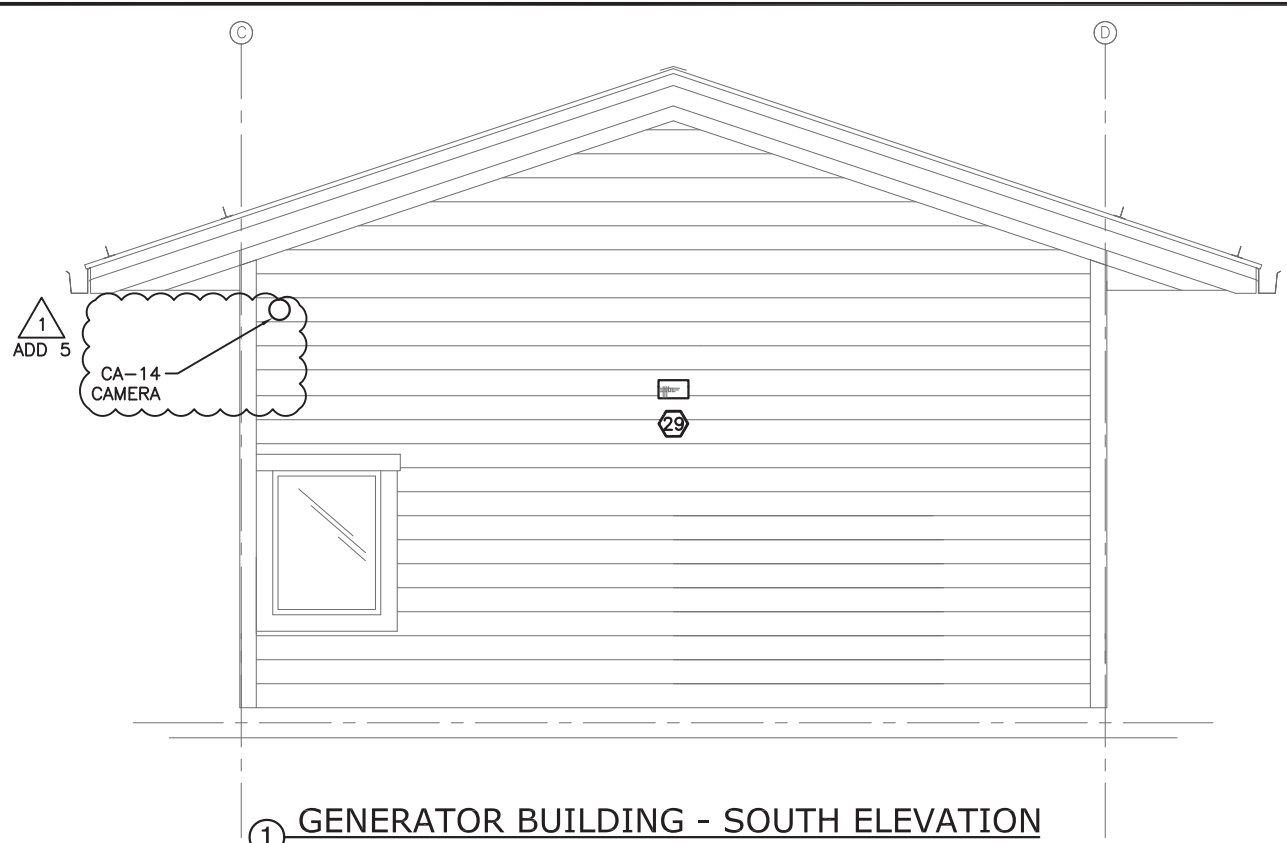
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. K. K.* Date 12/13/16

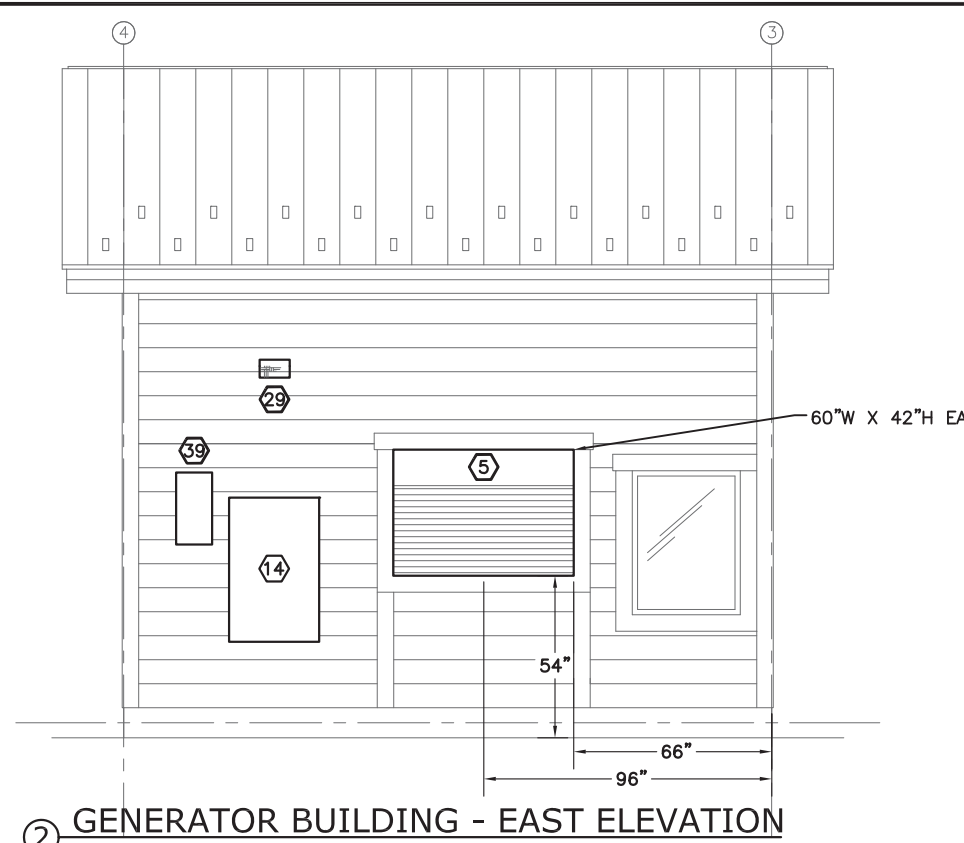
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CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>GENERATOR BUILDING SECTION</b>			
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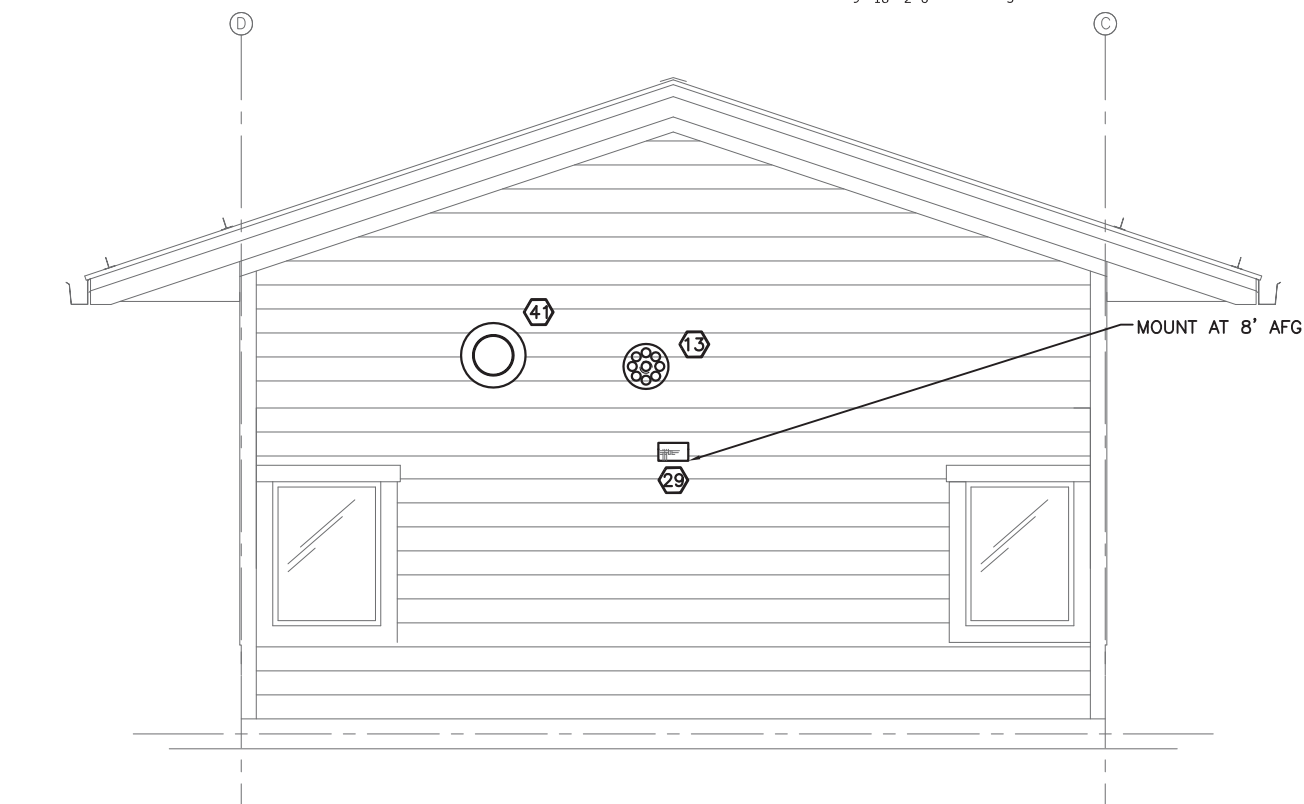




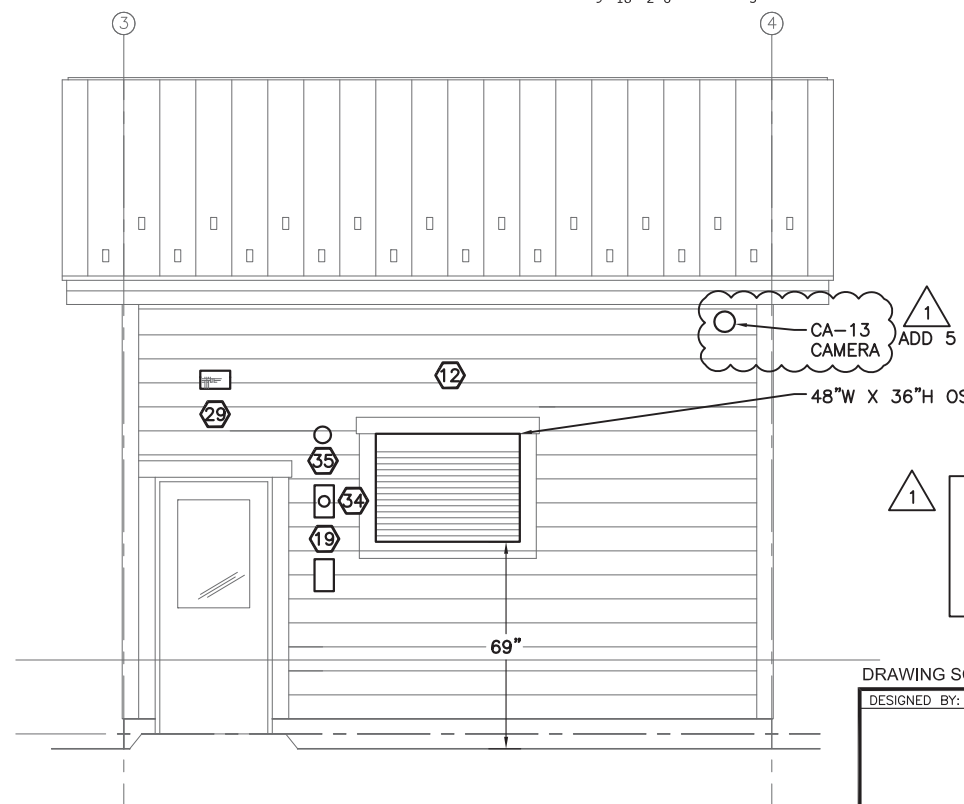
① GENERATOR BUILDING - SOUTH ELEVATION



② GENERATOR BUILDING - EAST ELEVATION



③ GENERATOR BUILDING - NORTH ELEVATION



④ GENERATOR BUILDING - WEST ELEVATION



- NOTES:
- SEE EQUIPMENT SCHEDULE ON SHEET E12 FOR EQUIPMENT KEYNOTE NUMBERS.
  - PROVIDE BLOCKING TO MATCH SIDING IN ORDER TO MOUNT ELECTRICAL EQUIPMENT TO SMOOTH VERTICAL SURFACE.

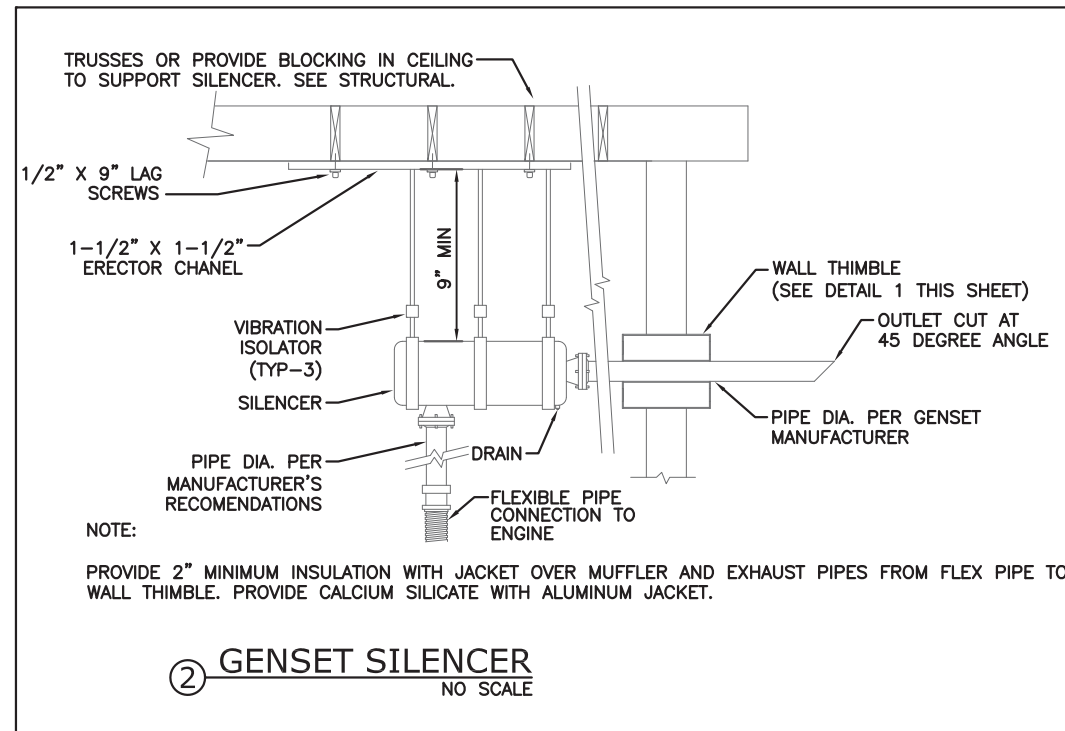
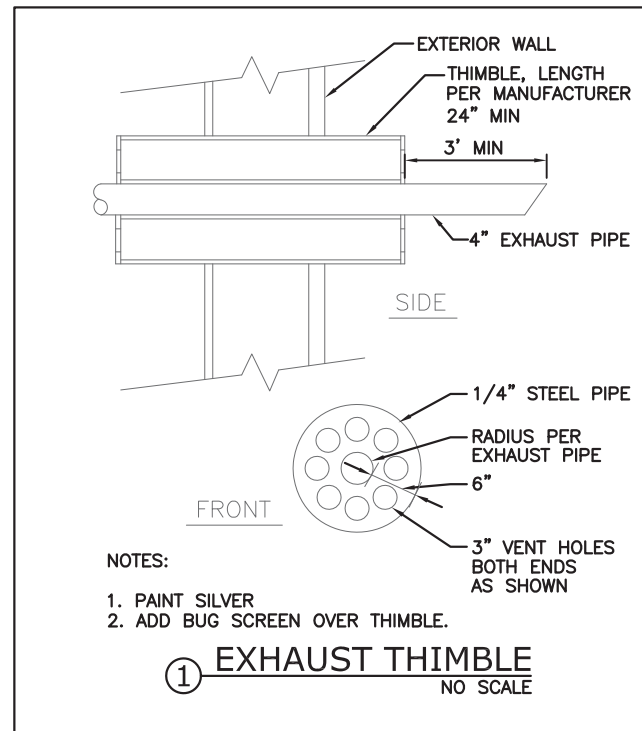
THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>GENERATOR BUILDING - ELEVATIONS</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E14A.DWG		PROJECT DESIGNATION		YEAR	SHEET NO.
TAB: E14		68433 / 0955014		2013	E14
Wednesday, November 30, 2016 11:15:16 AM		LISA SHERRELL		TOTAL SHEETS	38
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT			

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

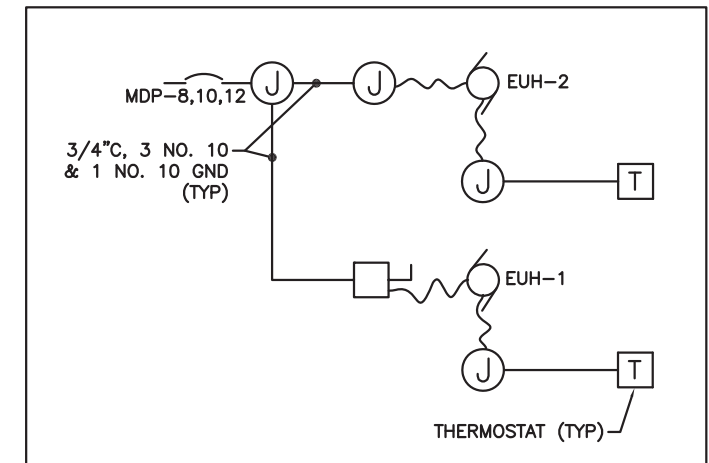
PE *K. Kullb* Date 12/13/16



THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

PANEL G		SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION	
		225A	120/208V, 3φ, 4W			SURFACE		150A	GENERATOR BUILDING	
CKT NO	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aφ	Bφ	Cφ				
1	BATTERY CHARGER	20/1	0.2	0.3		0.1	20/1	DATA RACK	2	
3	LIGHTING	20/1	0.7		0.8	0.1	20/1	FIRE ALARM	4	
5	RECEPTACLES SOUTH AND WEST WALLS	20/1	0.4			0.5	0.1	20/1	FUEL TANK AND GENERATOR CONTROLS	6
7	RECEPTACLES NORTH WALL	20/1	0.4	0.5			0.1	20/1	WATER JACKET HEATER	8
9	DAMPER CONTROLLER	20/1	0.1		3.4		3.3	50/3	PANEL S	10
11	RECEPTACLES EXTERIOR	20/1	0.4			2.6	2.2	-	-	12
13	EXTERIOR BUILDING LIGHTING	20/1	0.1	2.8			2.7	-	-	14
15	SPARE	20/1	0.0		0.1		0.1	30/3	TVSS	16
17	WALKWAY NO. 1 LIGHTING	20/1	0.2			0.3	0.1	-	-	18
19			0.0	0.1			0.1	-	-	20
21			0.0		0.6		0.6	30/1	BRIDGE LIGHTING	22
23			0.0			1.3	1.3	30/1	CATWALK AND DOLPHIN LIGHTING - EAST	24
25			0.0	2.0			2.0	30/1	CATWALK AND DOLPHIN LIGHTING - WEST	26
27			0.0		2.0		2.0	50/2	PURSER BUILDING	28
29			0.0			2.0	2.0	-	-	30
31			0.0	0.1			0.1	20/1	TELEPHONE TERMINAL BOARD	32
33			0.0		0.1		0.1	20/1	EXHAUST FAN	34
35			0.0			0.3	0.3	20/2	FUEL POLISHING UNIT	36
37			0.0	0.3			0.3	-	-	38
39			0.0		0.1		0.1	20/1	HPOE REPEATER	40
41			0.0			0.0	0.0	20/1	SPARE	42
TOTAL CONNECTED LOAD = 20.2 KVA/ 56 AMPS			6.1	7.1	7.0					

③ PANEL G SCHEDULE



④ UNIT HEATER CONTROL SCHEMATIC  
NO SCALE

NOTES:

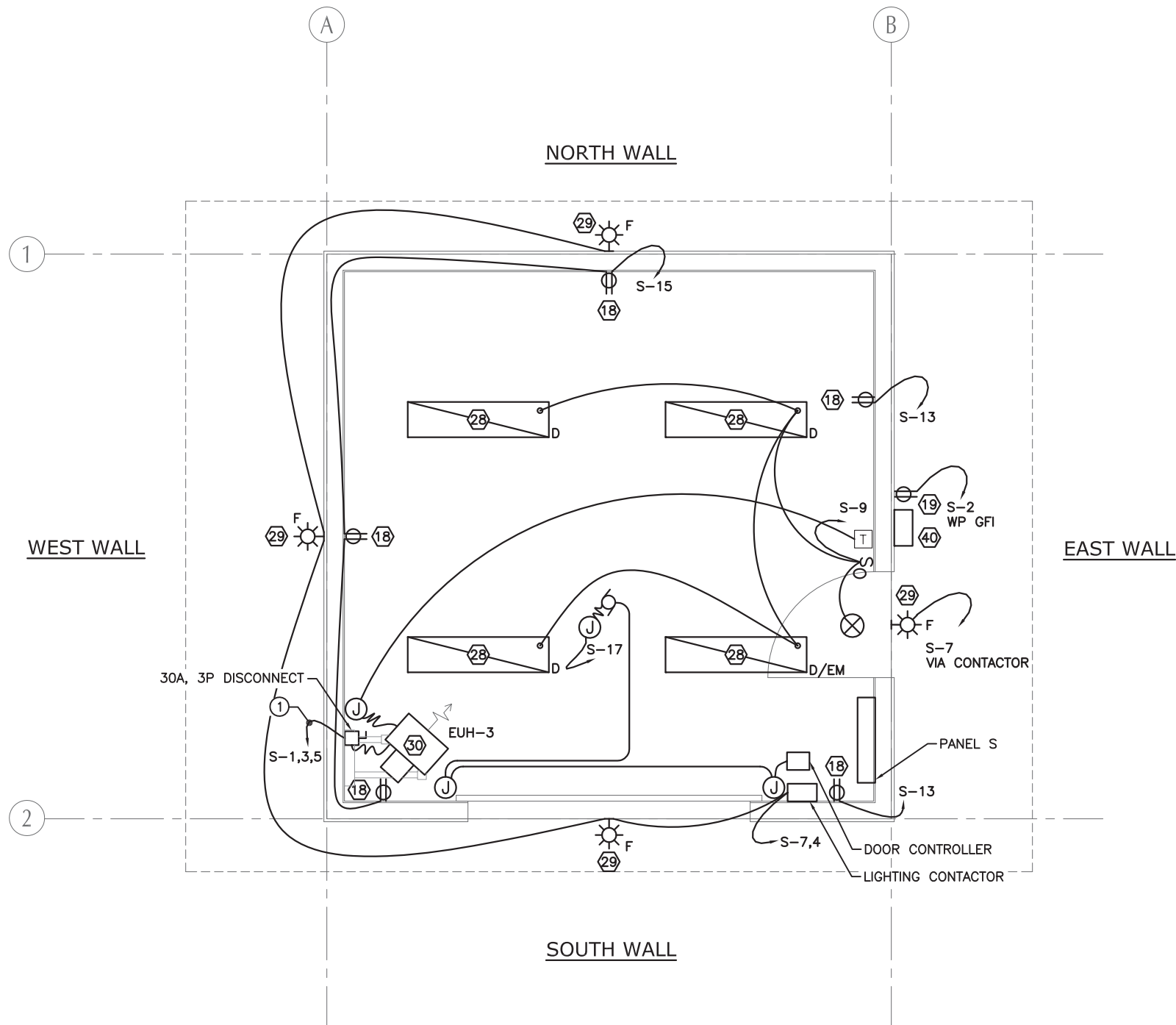
- CONTROL UNIT HEATER WITH THERMOSTAT TO OPEN POWER TO INTERNAL CONTACTOR HEATER.
- PROVIDE 30A, 3P HEAVY DUTY DISCONNECT FOR EUH-1 AS IT IS NOT IN SIGHT OF PANEL MDP.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>		
GENERATOR DETAILS & PANEL G SCHEDULE		
CHECKED BY: M. MORRIS	PROJECT DESIGNATION	YEAR
DRAWN BY: E. VOGEL	68433 / 0955014	2013
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E15.DWG		
TAB: E15	Wednesday, November 30, 2016 11:15:29 AM	USA SHERRELL
NO.	DATE	DESCRIPTION
1	11-16	AS-BUILT
SHEET NO.	TOTAL SHEETS	
E15	38	

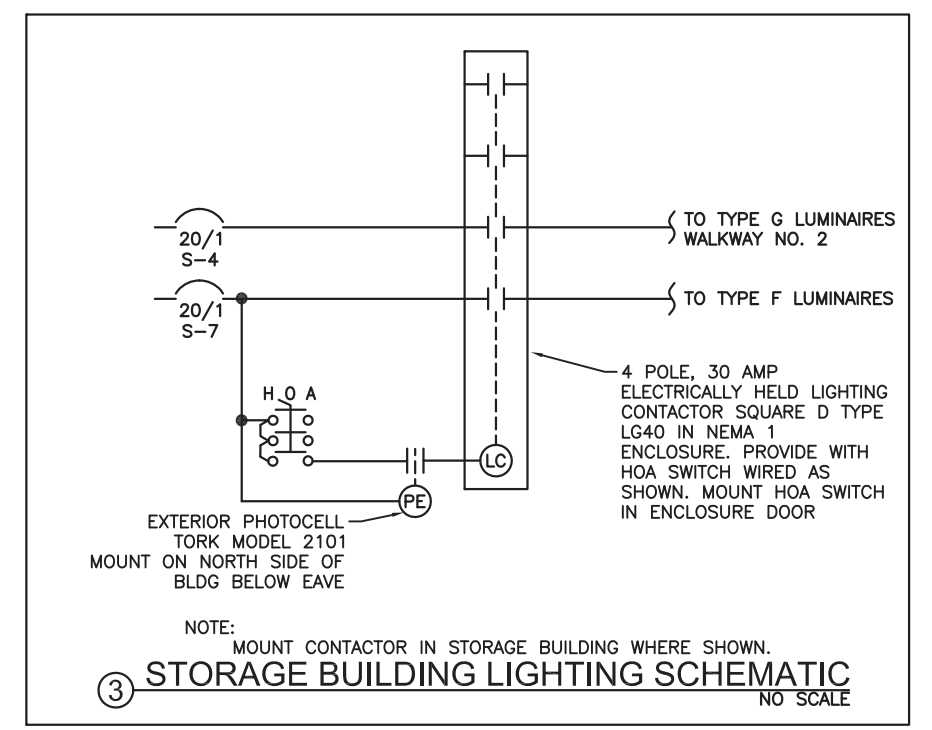
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16



PANEL S		SIZE	VOLTS, PHASE			MOUNTING	MAIN	LOCATION	
		100A	120/208V, 3φ, 4W			SURFACE	50/3	STORAGE BUILDING	
CKT NO.	DESCRIPTION	C/B SIZE	KVA			C/B SIZE	DESCRIPTION	CKT NO.	
			CKT	Aφ	Bφ				
1	HEATER EUH	20/3	2.0	2.2		0.2	RECEPTACLE EXTERIOR	2	
3	----	---	2.0		2.3	0.3	WALKWAY NO. 2 LTG	4	
5	----	---	2.0			2.0		6	
7	BLDG EXTERIOR LIGHTING	20/1	0.1	0.1		0.0		8	
9	LIGHTING	20/1	0.4		0.4	0.0		10	
11	SPARE	20/1	0.0			0.0		12	
13	RECEPTACLE	20/1	0.4	0.4		0.0		14	
15	RECEPTACLE	20/1	0.6		0.6	0.0		16	
17	OVERHEAD DOOR	20/1	0.2			0.2		18	
TOTAL CONNECTED LOAD = 8.2 KVA/ 23 AMPS			2.7	3.3	2.2				

② PANEL S SCHEDULE

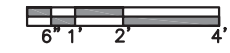


③ STORAGE BUILDING LIGHTING SCHEMATIC  
NO SCALE

- NOTES:
- ① 3/4"C, 2 NO. 10 & 1 NO. 10 GND.
  2. SEE SHEET E12 FOR KEYNOTE NUMBERS AND DESCRIPTIONS.
  3. PROVIDE ELECTRICAL AS REQUIRED FOR AN OPERATIONAL GARAGE DOOR WITH CONTROLS AND SAFETIES.

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

① STORAGE BUILDING FLOOR PLAN



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

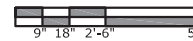
PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
CHECKED BY: M. MORRIS	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>	
DRAWN BY: E. VOGEL	<b>STORAGE BUILDING - FLOOR PLAN</b>	
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E16.DWG	PROJECT DESIGNATION	YEAR
TAB: E16 Wednesday, November 30, 2016 11:15:43 AM	68433 / 0955014	2013
REVISIONS	SHEET NO.	TOTAL SHEETS
NO. DATE DESCRIPTION	E16	38
1 11-16 AS-BUILT		

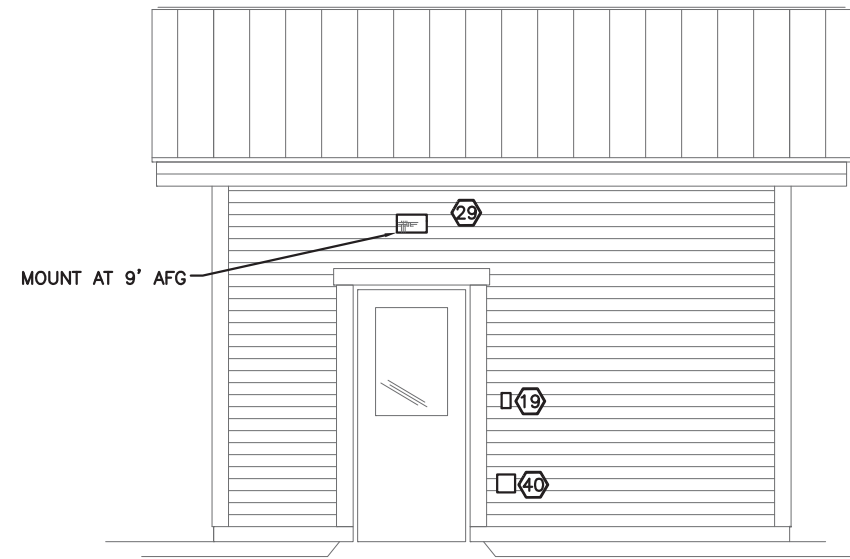


① STORAGE BUILDING - SOUTH ELEVATION

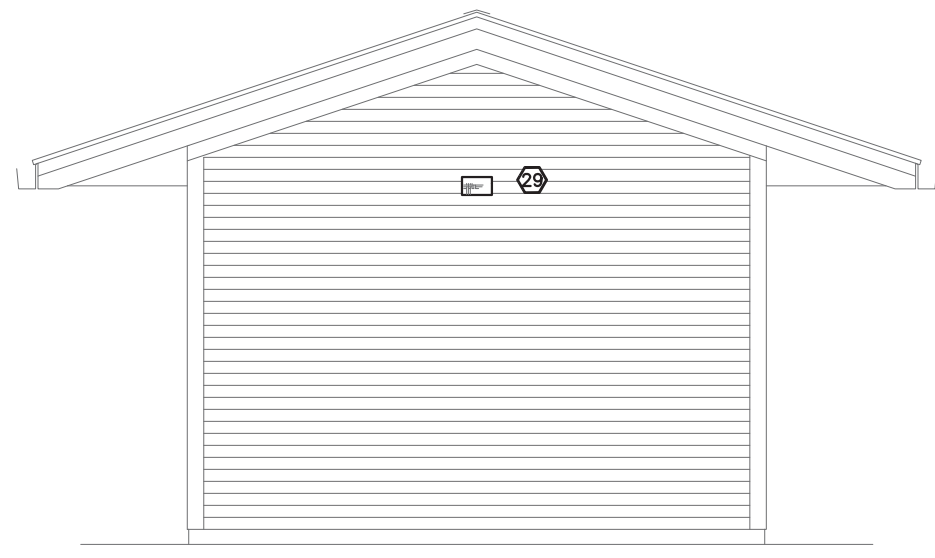
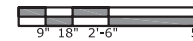


NOTES:

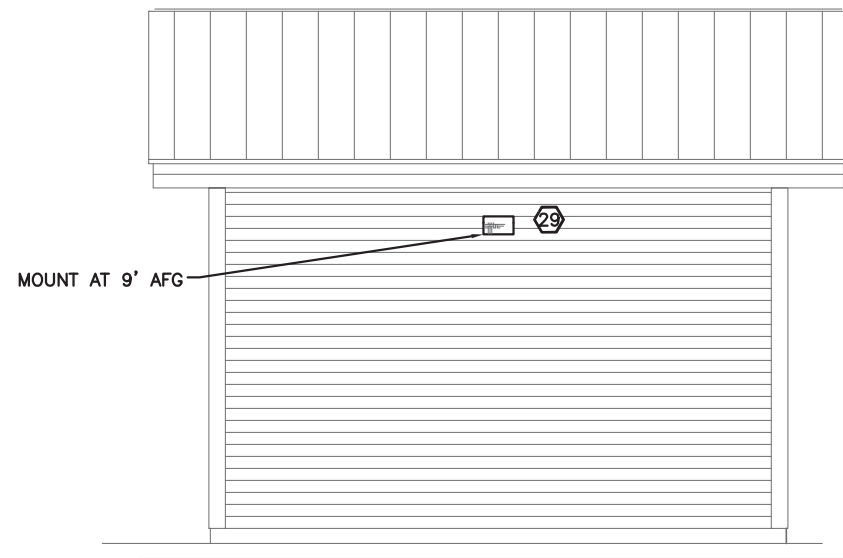
1. KEYNOTES FOUND ON THIS SHEET ARE DESCRIBED ON THE EQUIPMENT LIST. SEE SHEET E12.
2. PROVIDE BLOCKING TO MATCH SIDING IN ORDER TO MOUNT ELECTRICAL EQUIPMENT TO A SMOOTH VERTICLE SURFACE.



② STORAGE BUILDING - EAST ELEVATION



③ STORAGE BUILDING - NORTH ELEVATION



④ STORAGE BUILDING - WEST ELEVATION



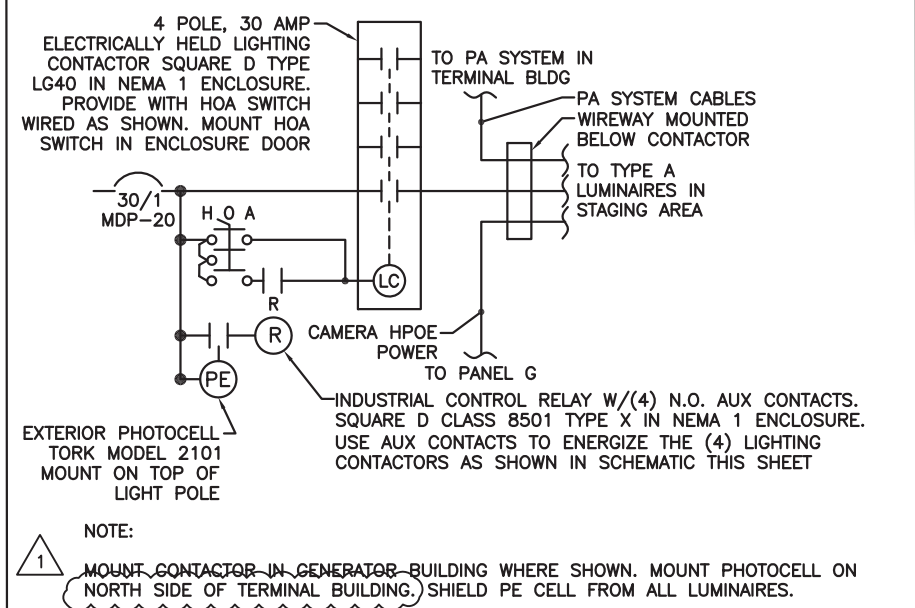
1 THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

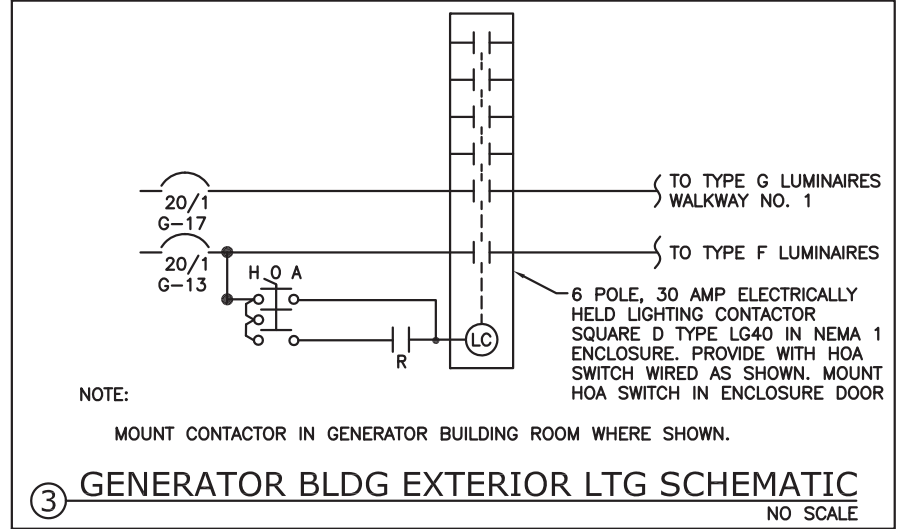
DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>STORAGE BUILDING - ELEVATIONS</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E17.DWG					
TAB: E17		Wednesday, November 30, 2016 11:15:57 AM		LISA SHERRELL	
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET
NO.	DATE	DESCRIPTION			NO.
1	11-16	AS-BUILT	<b>68433 / 0955014</b>	<b>2013</b>	<b>E17</b>
					TOTAL SHEETS
					<b>38</b>

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

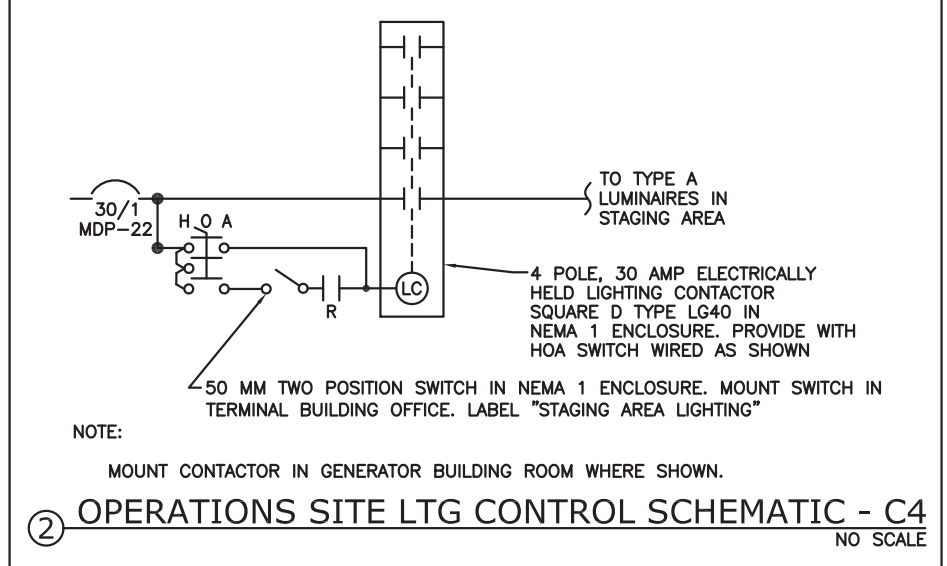
PE *K. Kullb* Date 12/13/16



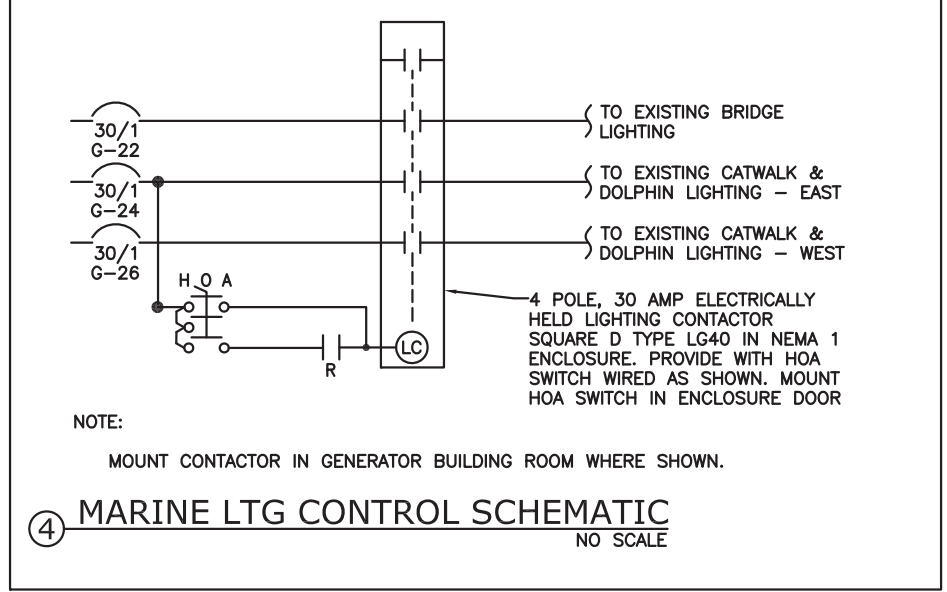
1 SECURITY SITE LTG CONTROL SCHEMATIC - C3  
NO SCALE



3 GENERATOR BLDG EXTERIOR LTG SCHEMATIC  
NO SCALE



2 OPERATIONS SITE LTG CONTROL SCHEMATIC - C4  
NO SCALE



4 MARINE LTG CONTROL SCHEMATIC  
NO SCALE

1 THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

VAULT SUMMARY		
VAULT NO.	USE	LOCATION
V-1	POWER	(2)
V-2	TELEPHONE	(2)
V-3	POWER	(2)
V-4	TELEPHONE	(2)
V-5	FUTURE POWER	(2)
V-6	SPARE TELEPHONE	(2)

NOTES:  
1. PROVIDE VAULTS PER DETAIL SHEET E19.  
2. SEE PLANSET A.

VAULT SUMMARY		
VAULT NO.	USE	LOCATION
V-7	SPARE POWER	(2)
V-8	SPARE TELEPHONE	(2)
V-9	SPARE POWER	(2)
V-10	SPARE TELEPHONE	(2)
V-11	UTILITY POWER	(2)
V-12	UTILITY TELEPHONE	(2)

LIGHT POLE SUMMARY						
POLE NO.	POLE	LUMINAIRE	FOUNDATION	HANDHOLE	CONTACTOR	LOCATION
L1	NEW	(1) NEW TYPE A	NEW	NEW	C1	(2)
L2	NEW	(1) NEW TYPE A	NEW	NEW	C2	(2)
L3	NEW	(1) NEW TYPE A	NEW	NEW	C1	(2)
L4	NEW	(1) NEW TYPE A	NEW	NEW	C2	(2)
L5	NEW	(1) NEW TYPE A	NEW	NEW	C1	(2)
L6	NEW	(2) NEW TYPE A	NEW	NEW	C2	(2)
L7	NEW	(2) NEW TYPE A	NEW	NEW	C1	(2)
L8	NEW	(2) NEW TYPE A	NEW	NEW	C2	(2)
L9	NEW	(3) NEW TYPE A	NEW	NEW	C1	(2)
L10	NEW	(2) NEW TYPE A	NEW	NEW	C1	(2)
L11	NEW	(2) NEW TYPE A	NEW	NEW	C2	(2)
L12	NEW	(2) NEW TYPE A	NEW	NEW	C1	(2)
L13	N/A	(2) NEW TYPE A*	N/A	N/A	N/A	N/A
L14	N/A	(1) NEW TYPE A*	N/A	N/A	N/A	N/A
L15	NEW	(1) NEW TYPE A*	NEW	NEW	C3	(2)
L16	N/A	(1) NEW TYPE A*	N/A	N/A	N/A	N/A
L17	N/A	(1) NEW TYPE A*	N/A	N/A	N/A	N/A
L18	N/A	(1) NEW TYPE A*	N/A	N/A	N/A	N/A
L19	N/A	(1) NEW TYPE A*	N/A	N/A	N/A	N/A
L20	NEW	(1) NEW TYPE A	NEW	NEW	C4	(2)
L21	NEW	(1) NEW TYPE A	NEW	NEW	C3	(2)
L22	NEW	(1) NEW TYPE A	NEW	NEW	C3	(2)
L23	NEW	(1) NEW TYPE A	NEW	NONE	C3	(2)
L24	NEW	(1) NEW TYPE A	NEW	NONE	C4	(2)
L25	NEW	(1) NEW TYPE A	NEW	NEW	C3	(2)
L26	NEW	(1) NEW TYPE A	NEW	NEW	C4	(2)
L27	NEW	(1) NEW TYPE A	NEW	NEW	C3	(2)
L28	NEW	(1) NEW TYPE A	NEW	NEW	C4	(2)
L29	NEW	(1) NEW TYPE A	NEW	NEW	C3	(2)
L30	NEW	(1) NEW TYPE A	NEW	NEW	C4	(2)
L31	NEW	(1) NEW TYPE A	NEW	NEW	C3	(2)
L32	NEW	(2) NEW TYPE A	NEW	NEW	C2	(2)

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	ARCHETYPE LUMINAIRE. DIE CAST ALUMINUM HOUSING & DOOR SUPER TGIC POWDER COAT.	KIM ARCHETYPE SERIES TYPE IV DIST., LIGHT GRAY 1A/2B-AR4-250PMH208-LG-TL	250W MH	SINGLE LATCH, NO TOOL ENTRY, STAINLESS HARDWARE POLE MOUNT, PROVIDE WITH QUAD TAP BALLAST AND NIXALITE BIRD CONTROL (277V)
B	WALLMOUNT FLOURESCENT W/ STEEL END & TOP PANELS W/ UPLIGHT	LITHONIA WP232 MVOLT GEB10IS	(2) 32W T8	MOUNT BOTTOM AT 78" AFF
C	BRASS GUARDED MARINE LIGHT	PAULUHN 723B	60W INC	MOUNT TO DOLPHIN & CATWALK WITH STAINLESS STEEL U-BOLTS OR OTHER SUITABLE SUPPORTS. POWER FROM EXISTING CATWALK LIGHTING CIRCUIT.
D	FLOURESCENT WRAPAROUND LUMINAIRE	LITHONIA LB332120GEB	(3) 32W T8	SEE SHEET E12, (28)
F	DEEP SHIELDED WALLMOUNT EXTERIOR LUMINAIRE	RUUD E8405-1P	50W PSMH	PULSE START METAL HALIDE. SEE SHEET E12, (29)
G	EXTERIOR LED WITH POLYCARBONATE LENS SYMETRIC	LITHONIA VAP 39 LED SYM MVOLT 57	LED 39W 3300 LU	5700K, 3300 LUMENS, 39W LED. CEILING MOUNT BRACKETS, STAINLESS STEEL TAMPER RESISTANT LATCHES VAP QMB, RK1T20DRV
⊗	LED EMERGENCY EXIT SIGN	LITHONIA LQMSWG 120/277 ELN	LED	MOUNT ABOVE DOOR

NOTE:  
THE PART NUMBERS IN THE LUMINAIRE SCHEDULE MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE FEATURES SHOWN IN THE LUMINAIRE SCHEDULE (INCLUDING THE MOUNTING) AND AS SHOWN ON THE OTHER PLAN SHEETS, AND IN THE SPECIFICATIONS.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

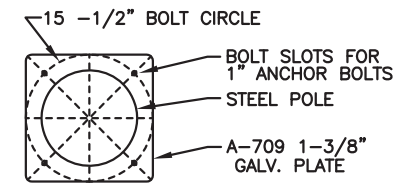
\* PROVIDE WITH 3' MAST ARM MADE TO MOUNT TO WOOD UTILITY POLE. PROVIDE TO AP&T. COORDINATE WITH AP&T TO MOUNT TO THEIR UTILITY POLE AND ENERGIZE. PROVIDE NEMA PE CELL W/ LUMINAIRES.

NOTES:  
1. PROVIDE NEW POLES, FOUNDATIONS, AND J-BOXES PER DETAILS, SHEET E19.  
2. SEE PLANSET A.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION					
CHECKED BY: M. MORRIS	HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E					
DRAWN BY: E. VOGEL	SCHEDULES AND SCHEMATICS					
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E18.DWG		LISA SHERRELL				
TAB: E18	Wednesday, November 30, 2016 11:16:11 AM					
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11-16	AS-BUILT	68433 / 0955014	2013	E18	38

TYPE A LUMINAIRE  
SEE LUMINAIRE SCHEDULE ON SHEET E18  
PROVIDE NUMBER OF LUMINAIRES  
AS SHOWN FOR TWO  
SPACE LUMINAIRES 180 DEGREES APART



① NEW SITE LTG BOLT CIRCLE DETAIL  
NO SCALE

TAPERED ROUND HOT DIPPED GALVANIZED STEEL  
39' POLE WITH TNEEC FLAT BLACK PAINT OVER  
GALVANIZE WITH HANDHOLE AT BASE. POLE SHALL BE  
A GARMIRE GSQ640-7GUAGE-GALV. POLE SHALL HAVE  
A 15-1/2" BOLT CIRCLE. A ROUND TAPERED POLE  
WITH SAME FEATURES IS ALSO ACCEPTABLE.

PROVIDE DOUBLE FUSE CONNECTOR KIT  
IN EACH POLE BASE. FUSE LUMINAIRE(S) WITH KIT  
USE BUSS TYPE LP-CC-4 FUSES

POLE BASE PER DETAIL

LOCATE IN FRONT OF POLE  
ON PARKING LOT SIDE

16,000 LB DESIGN LOAD  
16"W X 22"L X 12"D  
NOMINAL TRAFFIC RATED  
HANDHOLE W/ BOLT DOWN  
STEEL COVER W/ RAISED  
NON-SKID SURFACE  
OLD CASTLE B1017 BOX AND  
B1017-51JH COVER OR  
EQUAL SEE INSTALLATION  
DETAILS THIS SHEET

TO NEXT HANDHOLE  
2"GRS CONDUIT (TYP)  
SEE SITE PLAN FOR CONDUCTORS

PROVIDE CONDUIT DRAIN  
AT EACH ELBOW (TYP)

ADD 8

NOTES:

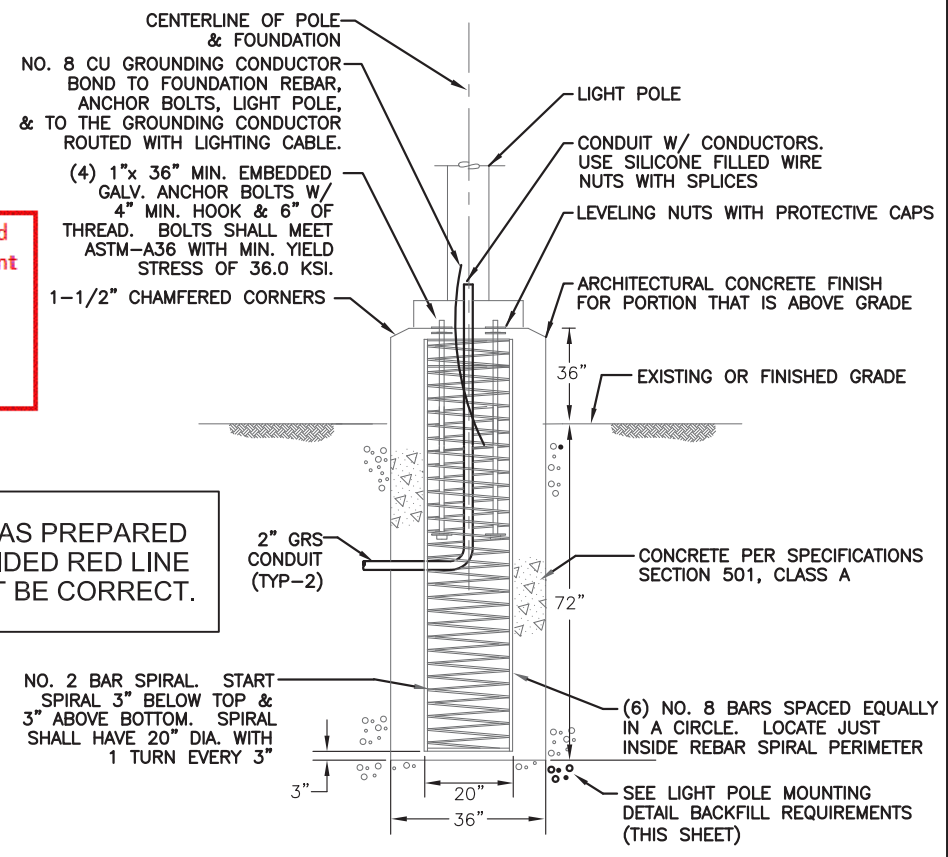
1. ALL SPLICES SHALL BE IN BASE OF POLE. LOOP FEED POWER CONDUCTORS IF REQUIRED. SEE SITE PLAN.
2. PROVIDE GROUNDING BUSHINGS ON CONDUIT.
3. PROVIDE FUSE KITS IN EACH POLE BASE.
4. SIZE POLE WITH LUMINAIRES FOR 120 MPH SUSTAINED WINDS WITH GUSTS TO 150 MPH. POLE DIMENSIONS SHOWN ARE A MINIMUM. PROVIDE CALCULATIONS SHOWING COMPLIANCE SEALED BY CIVIL ENGINEER REGISTERED IN ALASKA.
5. LOCATE CENTER OF THE LIGHT POLE PER PLANSET A.
6. LOCATE TOP OF BASE 3' ABOVE FINISHED GRADE PER LIGHT POLE BASE DETAIL THIS SHEET.
7. MOUNT CAMERA TO POLE AT 22' AFG USING POLE MOUNT BRACKET WITH STAINLESS STEEL BANDING. PROVIDE HANDHOLE AT 19' ABOVE BASE 180' FROM CAMERA LOCATION. PROVIDE GROMMETTED OPENING IN POLE TO FEED CAMERA. ROUTE CABLES UP THROUGH POLE TO CAMERA. PROVIDE CAMERA(S) TO POLE(S) WHERE SHOWN.
8. MOUNT PA SPEAKER TO POLE 10' BELOW TOP USING A POLE MOUNT BRACKET WITH STAINLESS STEEL BANDING. PROVIDE HANDHOLE 10' DOWN FROM TOP OF POLE 180' FROM SPEAKER. PROVIDE GROMMETTED 1" DIAMETER OPENING IN POLE TO FEED CAMERA. ROUTE CABLE UP THROUGH POLE TO SPEAKER. PROVIDE SPEAKER(S) ON POLE(S) WHERE SHOWN. AIM PER ENGINEER.

② LIGHT POLE MOUNTING DETAIL  
NO SCALE

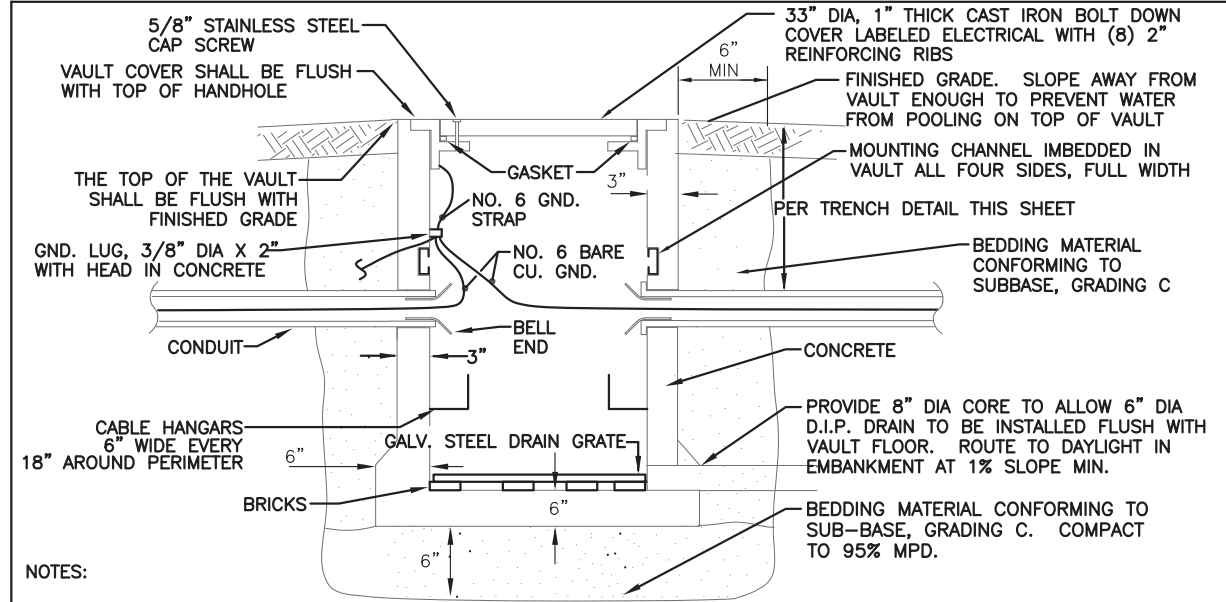
Record Drawings have been reviewed  
by the Project Engineer, and represent  
to the best of my knowledge, the  
project as constructed.

PE *K. Kullb* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED  
FROM CONTRACTOR PROVIDED RED LINE  
DRAWINGS WHICH MAY NOT BE CORRECT.



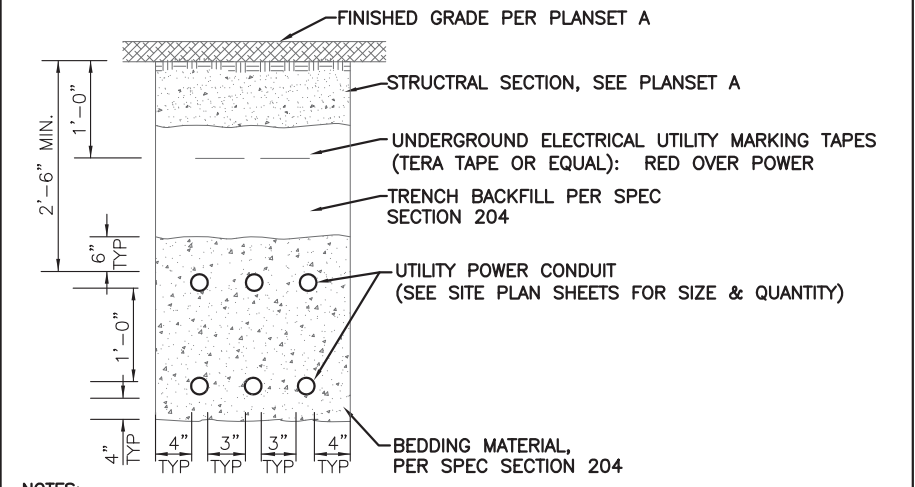
③ LIGHT POLE BASE DETAIL  
NO SCALE



NOTES:

1. VAULT SHALL HAVE OUTSIDE DIMENSIONS OF 4' WIDE X 4' LONG X 4' DEEP. UTILVAULT 444-LA OR APPROVED EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE AT 1% MIN SLOPE.
2. THE COVERS FOR VAULTS CONTAINING POWER CABLES SHALL BE LABELED "ELECTRICAL". THE COVERS FOR VAULTS CONTAINING TELEPHONE CABLES SHALL BE LABELED "SIGNAL".
3. PROVIDE 6" DRAINS FOR ALL VAULTS. SLOPE AT 1% MIN TO DAYLIGHT. PROVIDE LENGTH AS NECESSARY.
4. PROVIDE A NO. 2, 30' GROUND RING AROUND THE VAULT. BOND TO GROUND LUG.
5. ROUTE THE DRAINS FOR VAULTS V-3 AND V-4 INTO STRUCTURE S-3 AS SHOWN ON PLANSET A, SHEET NO. 9. CUT A HOLE IN THE STRUCTURE AND SEAL THE DRAIN PIPE ENTRANCE INTO THE STRUCTURE PER CIVIL AND AS REQUIRED. SLOPE THE DRAINS AT 1% MIN INTO THE STRUCTURE.

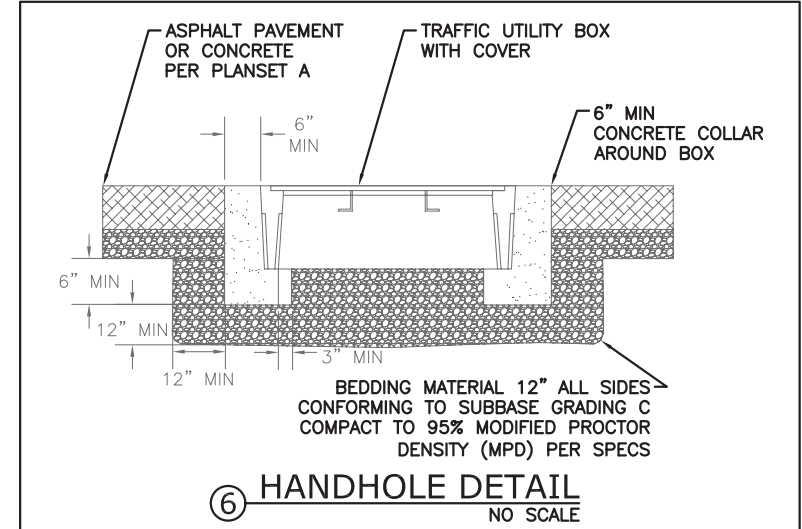
④ POWER AND SIGNAL VAULT  
NO SCALE



NOTES:

1. ALL DIMENSIONS ARE MINIMUM.
2. MODIFY CONDUIT BURIAL DEPTH WHERE NOTED ON PLAN SHEETS.
3. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
4. MAINTAIN 12 INCHES MINIMUM SEPARATION ALL DIRECTIONS BETWEEN POWER AND CONTROL CONDUITS. TELEPHONE AND DATA SHALL BE SEPARATED BY 12" FROM ALL OTHER CONDUIT.
5. BLASTING OR OTHER MECHANICAL EXCAVATION IN HARD ROCK MATERIALS MAY BE REQUIRED.
6. PROVIDE 3'-6" BURIAL DEPTH FOR UTILITY POWER CONDUITS, ALL OTHER CONDUIT MAY BE BURIED AT 2'-6" BURIAL DEPTH.
7. CUT AND PATCH ASPHALT AS REQUIRED TO INSTALL NEW CONDUIT AND OTHER MATERIALS. WHEN PATCHING ASPHALT, CUT EXISTING ASPHALT BACK 12" MINIMUM ON ALL SIDES OF THE DISTURBED MATERIAL (EDGE OF TRENCH OR EXCAVATION). PATCH ASPHALT PER PLANSET A.

⑤ TRENCH DETAIL  
NO SCALE



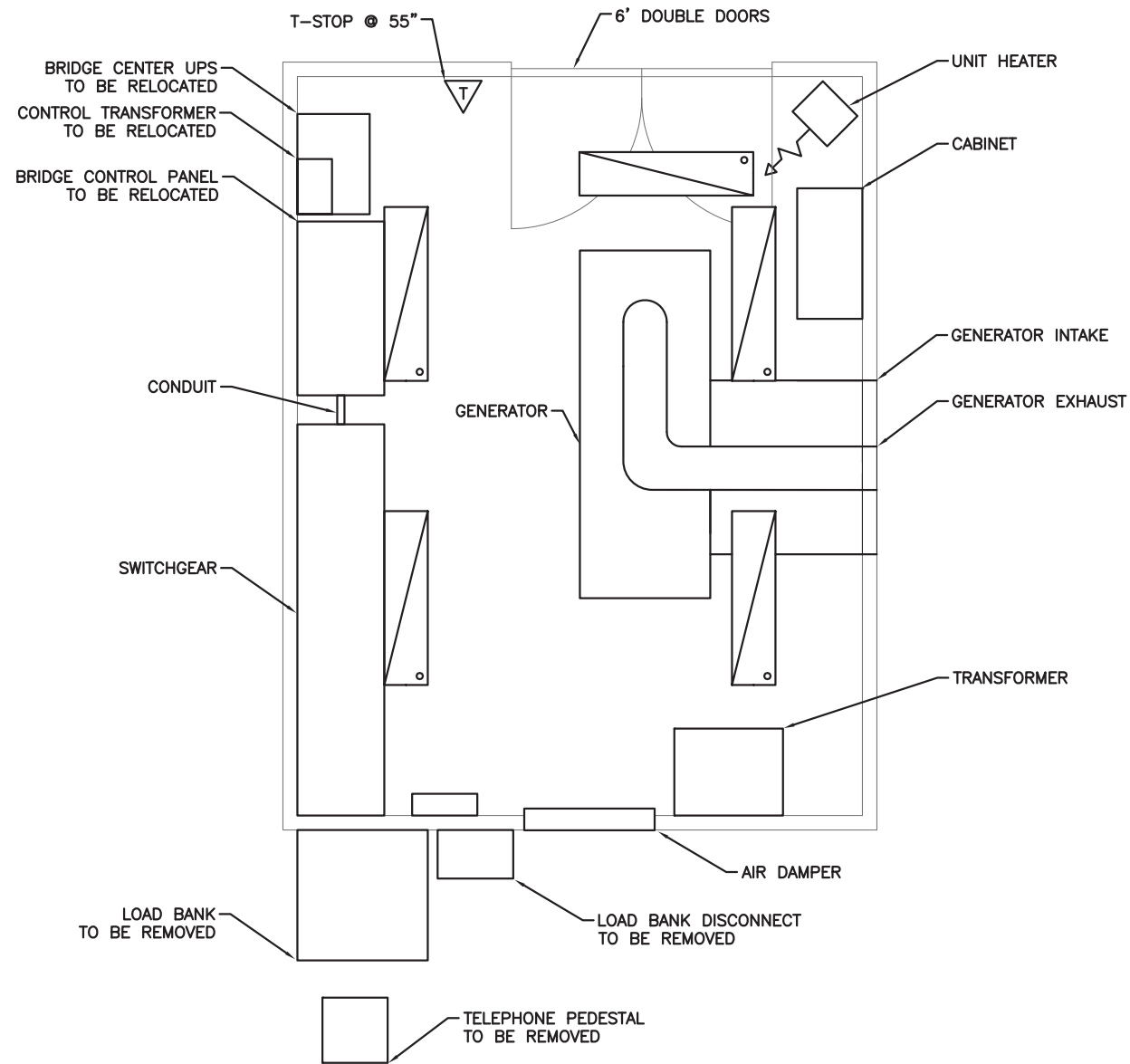
⑥ HANDHOLE DETAIL  
NO SCALE

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

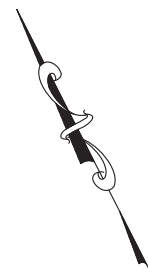
DESIGNED BY: M. MORRIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>	
CHECKED BY: M. MORRIS	<b>LIGHT POLE, TRENCH, AND VAULT DETAILS</b>			
DRAWN BY: E. VOGEL				
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E19.DWG	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
TAB: E19 Wednesday, November 30, 2016 11:16:26 AM	68433 / 0955014	2013	E19	38
REVISIONS				
NO.	DATE	DESCRIPTION		
1	11-16	AS-BUILT		

NOTES:

1. REMOVE ALL EQUIPMENT IN THE GENERATOR BUILDING, UNLESS OTHERWISE NOTED.
2. RELOCATE THE EQUIPMENT ASSOCIATED WITH THE BRIDGE CONTROL SYSTEM TO THE NEW GENERATOR BUILDING AS SHOWN.



THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.



GENERATOR BUILDING - FLOOR PLAN - EXISTING

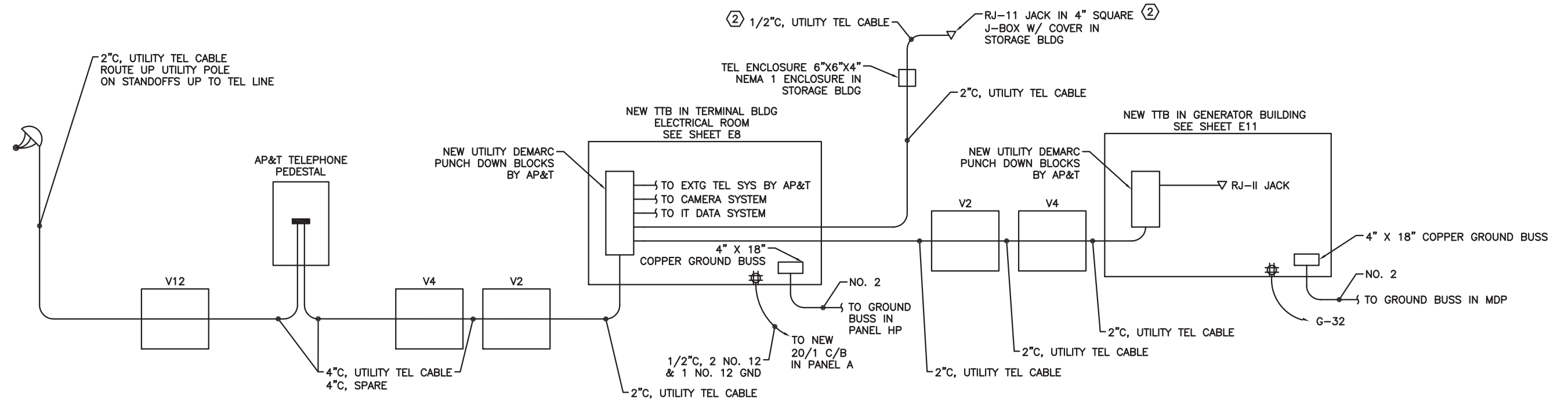


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. K. K.* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
		<b>GENERATOR BUILDING - FLOOR PLAN - EXISTING</b>			
CHECKED BY: M. MORRIS		PROJECT DESIGNATION		YEAR	SHEET NO.
DRAWN BY: E. VOGEL		68433 / 0955014		2013	E20
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E20.DWG		REVISIONS		TOTAL SHEETS	
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NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT			38

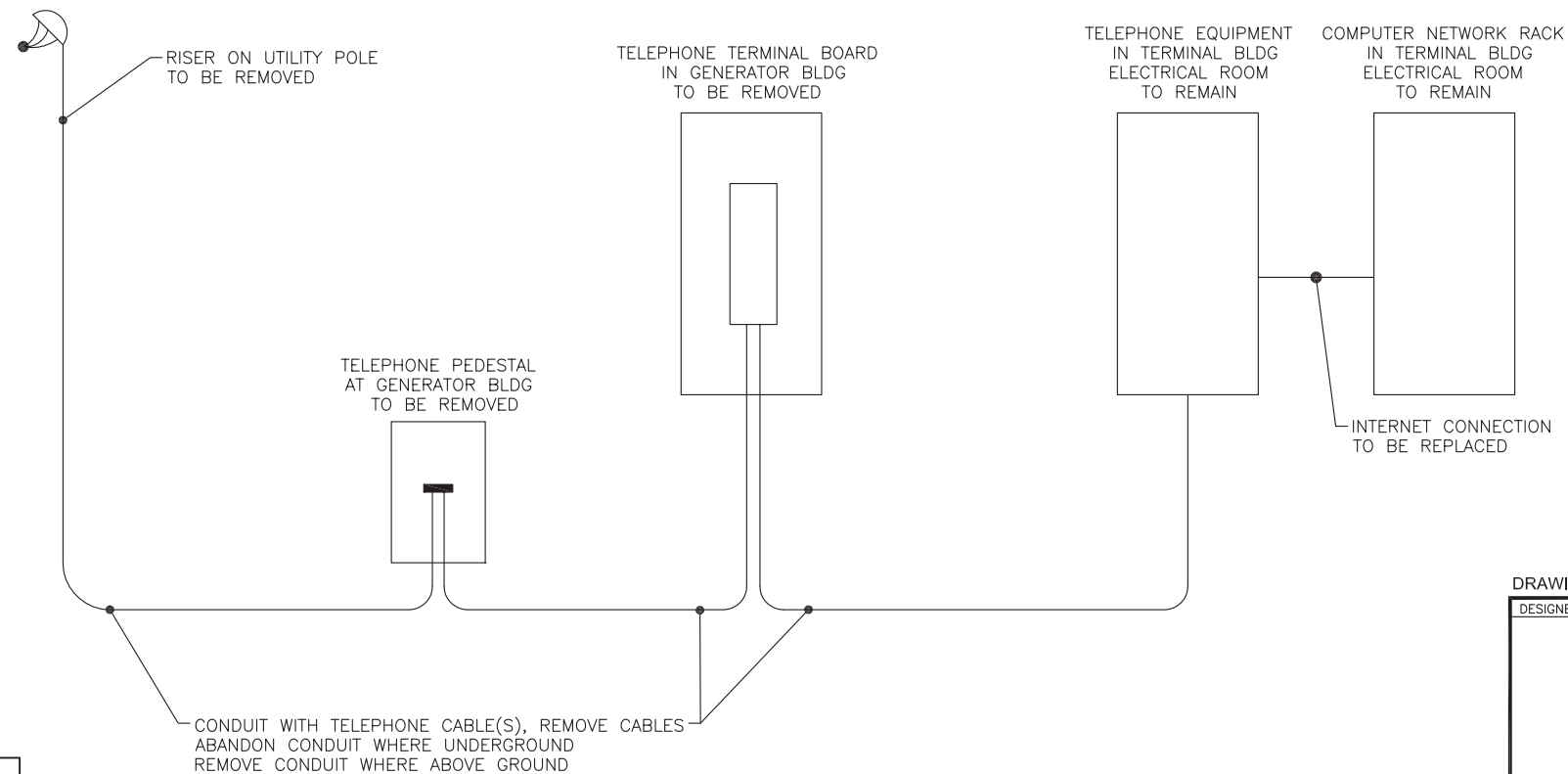


NOTE:

1. COORDINATE WITH AP&T TO PROVIDE A NEW TELEPHONE SERVICE TO THE TERMINAL BUILDING. PROVIDE ALL CONDUIT AND VAULTS, RISER UP POLE, WEATHERHEAD, TTB, POWER & GROUND BUSS AND OTHER WORK SHOWN ON THE DRAWINGS. ALL WORK NOT SHOWN "BY AP&T" SHALL BE PROVIDED. AP&T SHALL FURNISH & INSTALL THE TELEPHONE UTILITY CABLE. PROVIDE THE CONDUIT FOR THIS CABLE.

2. PROVIDE A RJ-11 JACK IN A J-BOX IN THE STORAGE BUILDING. CONNECT TO 6"x6"x4" ENCLOSURE IN STORAGE BUILDING. PROVIDE A 2" C FROM ENCLOSURE TO TTB IN TERMINAL BUILDING. COORDINATE WITH AP&T TO CONNECT RJ-11 JACK TO TERMINAL TELEPHONE SYSTEM.

1 TELEPHONE RISER DIAGRAM - NEW  
NO SCALE



2 TELEPHONE/COMPUTER RISER DIAGRAM - EXISTING  
NO SCALE

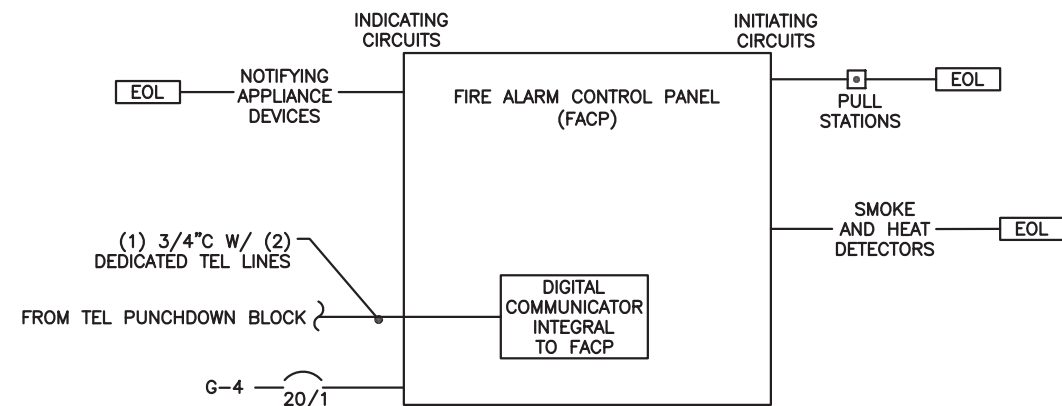
1 THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b> <b>TELEPHONE/COMPUTER RISER DIAGRAMS</b>			
CHECKED BY: M. MORRIS					
DRAWN BY: E. VOGEL		PROJECT DESIGNATION: <b>68433 / 0955014</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E21.DWG		YEAR: <b>2013</b>	SHEET NO.: <b>E21</b>	TOTAL SHEETS: <b>38</b>	
TAB: E21		DATE: <b>11-16</b>	DESCRIPTION: <b>AS-BUILT</b>	DATE: Wednesday, November 30, 2016 11:16:52 AM	
REVISIONS		USA SHERRELL			





NOTES:

1. PROVIDE AN ADDRESSABLE MAIN FACP. 1 ADD 3 SIMPLEX 4100ES OR APPROVED EQUAL. PROVIDE ADDRESSABLE HORN STROBES ON THE INDICATING CIRCUITS.
2. PROVIDE SHOP DRAWINGS DURING SUBMITTALS. AFTER CONSTRUCTION, PROVIDE AS-BUILTS SHOWING ALL CIRCUITING. SHOW WHICH DEVICES ARE ON EACH IDC CIRCUIT, AND WHICH DEVICES ARE ON EACH NAC CIRCUIT. SHOW ALL CONTROL WIRING. PROVIDE (3) SETS OF AS-BUILT DRAWINGS TO THE ENGINEER.
3. ROUTE ALL WIRING IN CONDUIT. ALL WIRING SHALL BE RED JACKETED FIRE ALARM CABLE. PERFORM INDICATING DEVICE CIRCUIT LOAD CALCULATIONS PRIOR TO CONSTRUCTION. SIZE CONDUCTORS BASED ON THE LOAD CALCULATIONS. ALL CIRCUITS SHALL USE NO. 14 AWG CONDUCTORS MINIMUM. LABEL EACH CONDUCTOR IN EVERY JUNCTION BOX WITH ITS CIRCUIT DESIGNATION. PAINT JUNCTION BOX COVERS RED.
4. WHEN HORNS ARE SILENCED, THEY SHALL ALL SILENCE TOGETHER. WHEN THE SYSTEM IS RESET, THE INDICATING CIRCUITS SHALL ALL RESET TOGETHER. ALL STROBES AND HORN STROBES VIEWABLE FROM ANY ONE POINT IN THE BUILDING SHALL BE SYNCHRONIZED TOGETHER.
5. THE FIRE ALARM SYSTEM DEVICES AND PANEL SHALL BE LOCATED AND INSTALLED PER THESE DRAWINGS, THE SPECIFICATIONS, AND PER THE SHOP DRAWINGS PROVIDED BY THE FIRE ALARM MANUFACTURER'S DISTRIBUTOR THAT HAVE BEEN APPROVED BY THE ENGINEER DURING THE SUBMITTAL PROCESS. NO DEVIATIONS FROM THESE DOCUMENTS MAY BE MADE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
6. THE FIRE ALARM DEVICES AND PANEL SHALL BE INSTALLED BY AN INSTALLER CERTIFIED BY THE STATE OF ALASKA TO INSTALL FIRE ALARM SYSTEMS. THE SYSTEM PROGRAMMING, TESTING, AND CERTIFICATION SHALL BE DONE BY A MANUFACTURER CERTIFIED TECHNICIAN EMPLOYED BY THE MANUFACTURER'S DISTRIBUTOR THAT SUPPLIED THE FIRE ALARM SYSTEM MATERIALS FOR THE PROJECT.
7. THE ADDRESS FOR EACH INITIATING DEVICE SHALL BE PROGRAMMED IN THE BASE OF EACH INITIATING DEVICE (SMOKE OR HEAT DETECTOR), NOT IN THE DEVICE ITSELF. A DEVICE SHALL BE ABLE TO BE REPLACED WITHOUT HAVING TO PERFORM ANY PROGRAMMING. PROVIDE CIRCUIT INTERFACE MODULES TO PROVIDE ADDRESSABILITY FOR ALL NON-ADDRESSABLE INITIATING & OTHER DEVICES (FLOW & TAMPER SWITCHES, FAN MOTOR STARTERS, ETC). PROVIDE ONE CIM PER DEVICE.
8. PROVIDE STROBE INTENSITIES AS REQUIRED TO MEET NFPA 72.
9. ALL DEVICES SHALL BE TESTED AND SOUND READINGS OF THE AMBIENT AND ALARM LEVELS SHALL BE TAKEN IN EVERY ROOM OF THE BUILDING. A WRITTEN REPORT OF THE TEST OF EVERY DEVICE PRODUCED BY THE SYSTEM SHALL BE PROVIDED TO THE ENGINEER 7 DAYS PRIOR TO REQUESTING A FINAL INSPECTION.
10. PROVIDE END OF LINE RESISTORS ON THE IDC CIRCUITS THAT CONTAIN CIRCUIT INTERFACE MODULES AS REQUIRED. PROVIDE END OF LINE RESISTORS ON OTHER FACP CIRCUITS AS NECESSARY TO MEET NFPA 72.
11. ALL DEVICES SHALL BE FLUSH MOUNTED AT THE HEIGHTS INDICATED ON THE LEGEND. DEVICES MAY BE SURFACE MOUNTED ONLY IF SPECIFICALLY NOTED. THERE SHALL BE NO CHANGE TO THE LOCATION OR MOUNTING HEIGHT EXCEPT WITH WRITTEN PERMISSION FROM THE ENGINEER.

12. THE FIRE ALARM SYSTEM SHALL BE THE CURRENT EDITION OF NFPA 72.

1 ADD 3

**GENERATOR BUILDING FIRE ALARM RISER DIAGRAM**  
NO SCALE

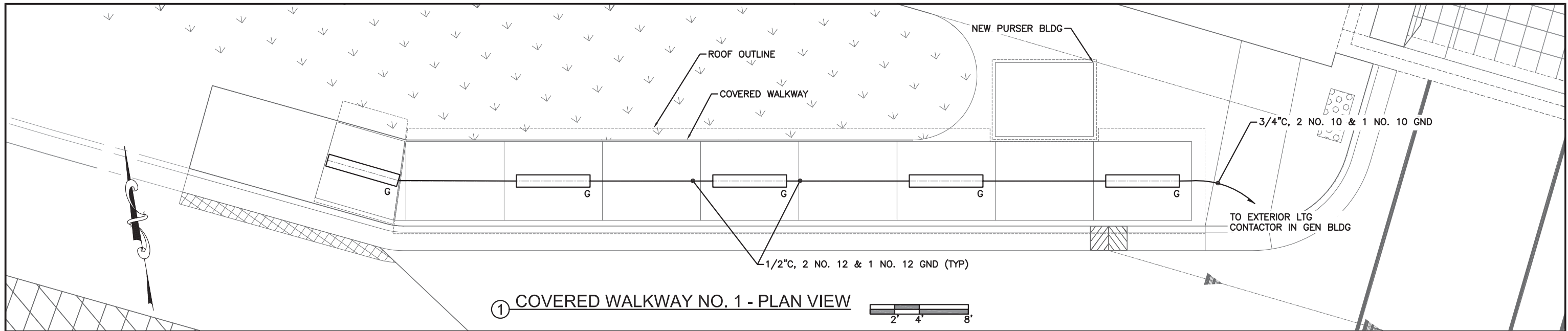
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *[Signature]* Date 12/13/16

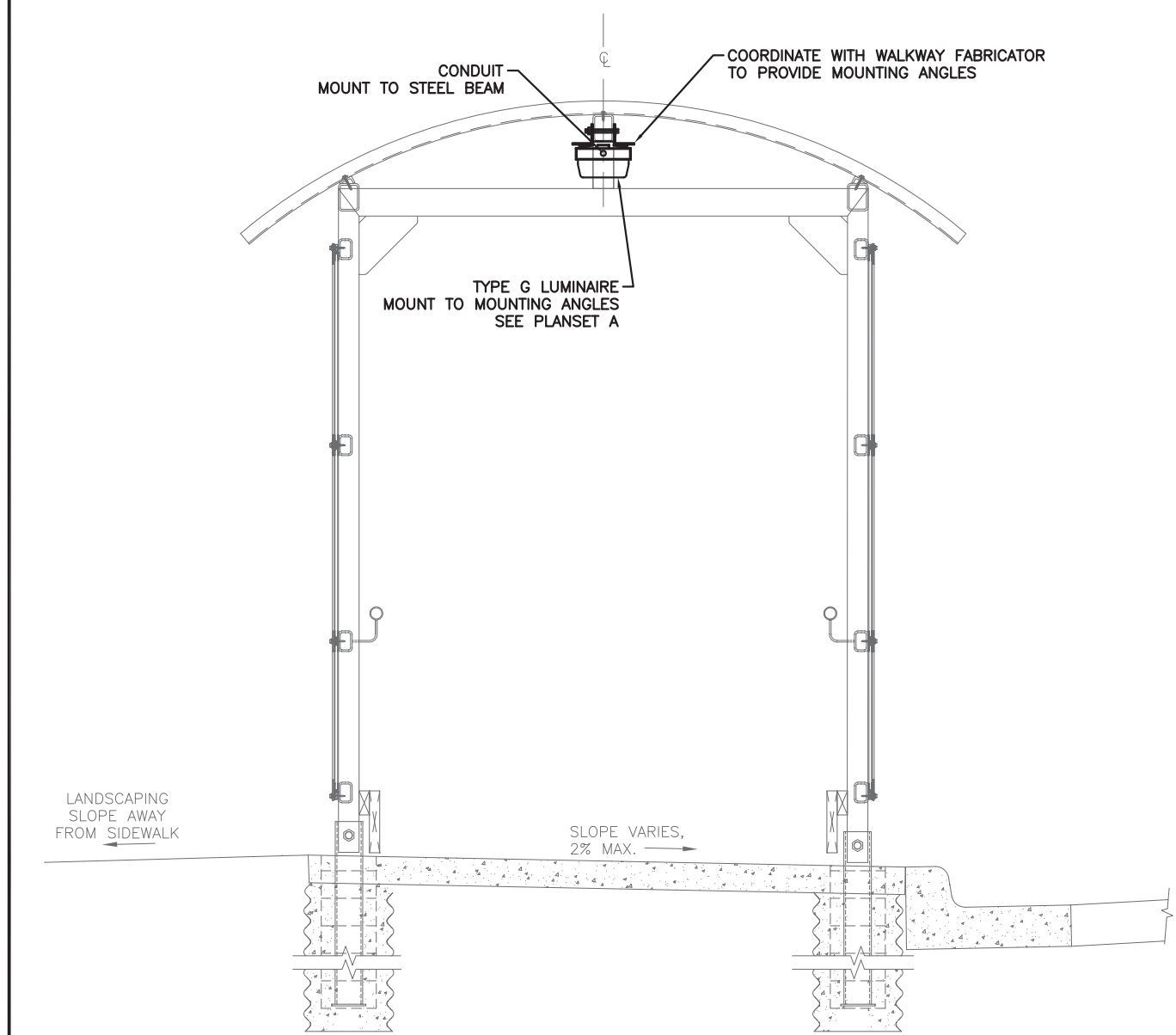
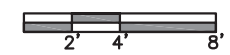
1 THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

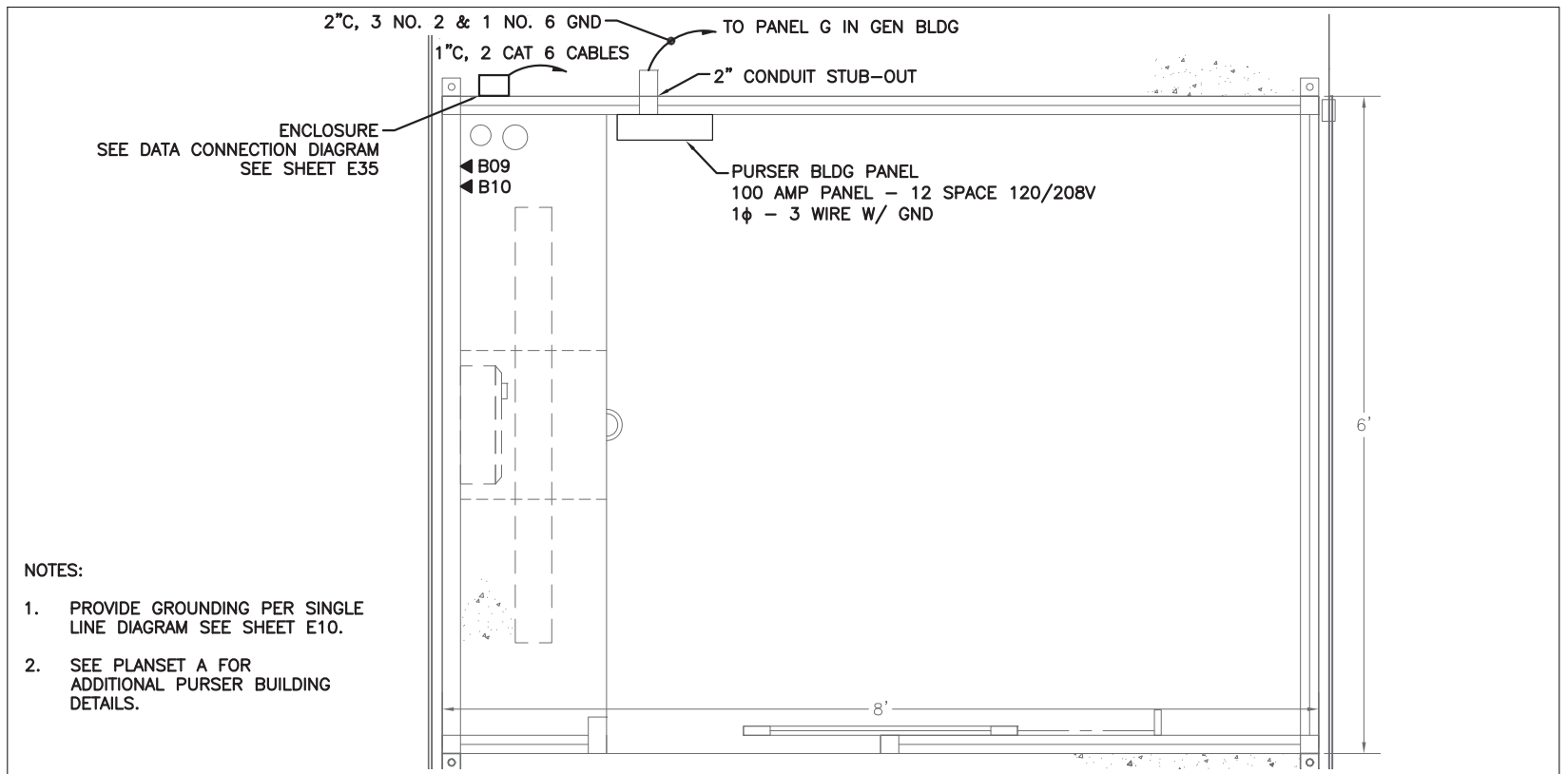
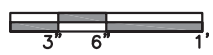
DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E			
DRAWN BY: E. VOGEL		FIRE ALARM RISER DIAGRAM			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E22.DWG					
TAB: E22		Wednesday, November 30, 2016 11:17:04 AM		LISA SHERRELL	
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.
NO.	DATE	DESCRIPTION	68433 / 0955014		TOTAL SHEETS
1	11-16	AS-BUILT	2013		E22 38



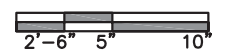
① COVERED WALKWAY NO. 1 - PLAN VIEW



② COVERED WALKWAY NO. 1 - SECTION



③ PURSER BUILDING - PLAN VIEW



- NOTES:
1. PROVIDE GROUNDING PER SINGLE LINE DIAGRAM SEE SHEET E10.
  2. SEE PLANSET A FOR ADDITIONAL PURSER BUILDING DETAILS.

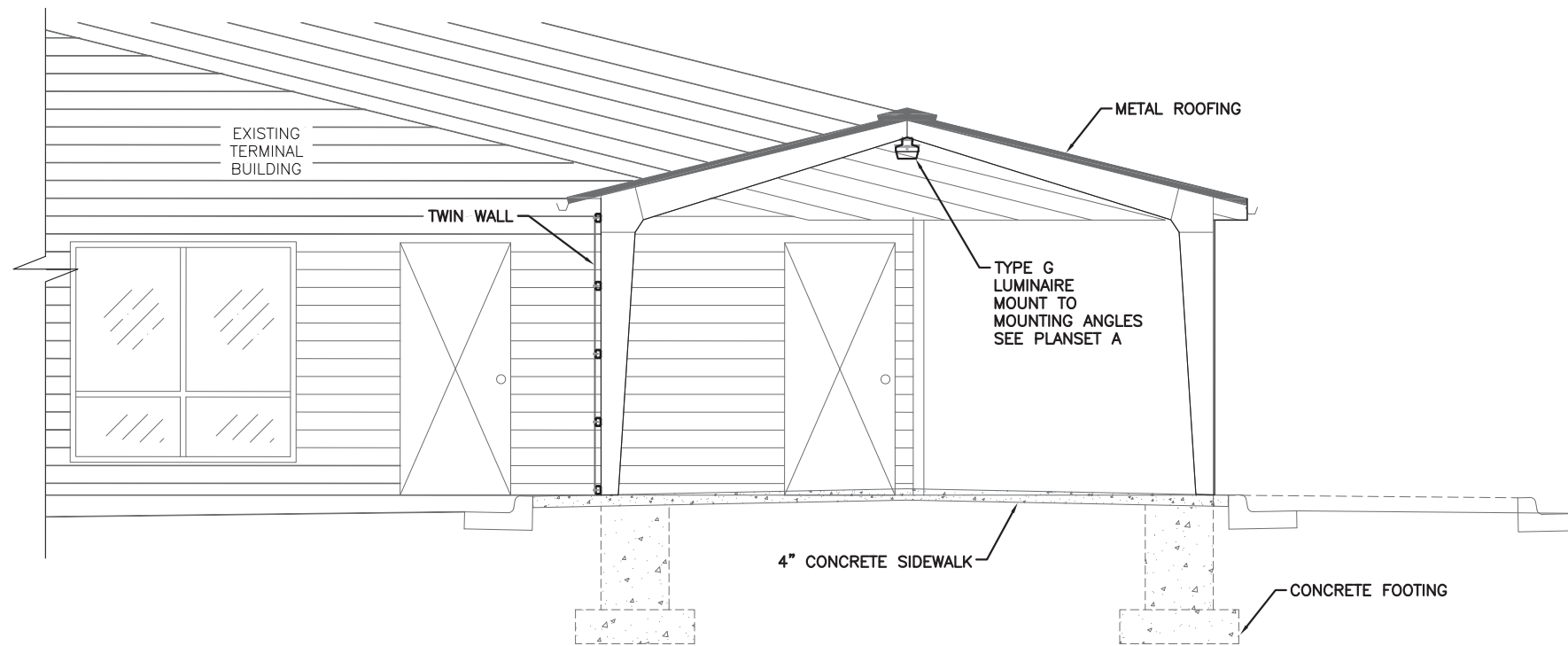
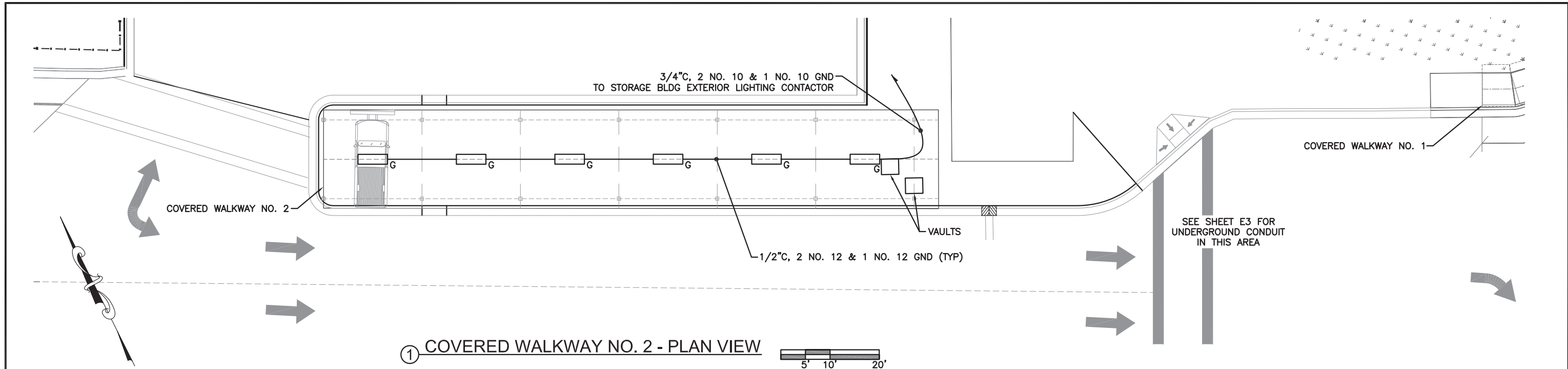
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

⚠ THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>COVERED WALKWAY NO. 1 AND PURSER BUILDING</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E23.DWG					
TAB: E23 Wednesday, November 30, 2016 11:17:32 AM LISA SHERRELL					
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	<b>68433 / 0955014</b>	<b>2013</b>	<b>E23 38</b>



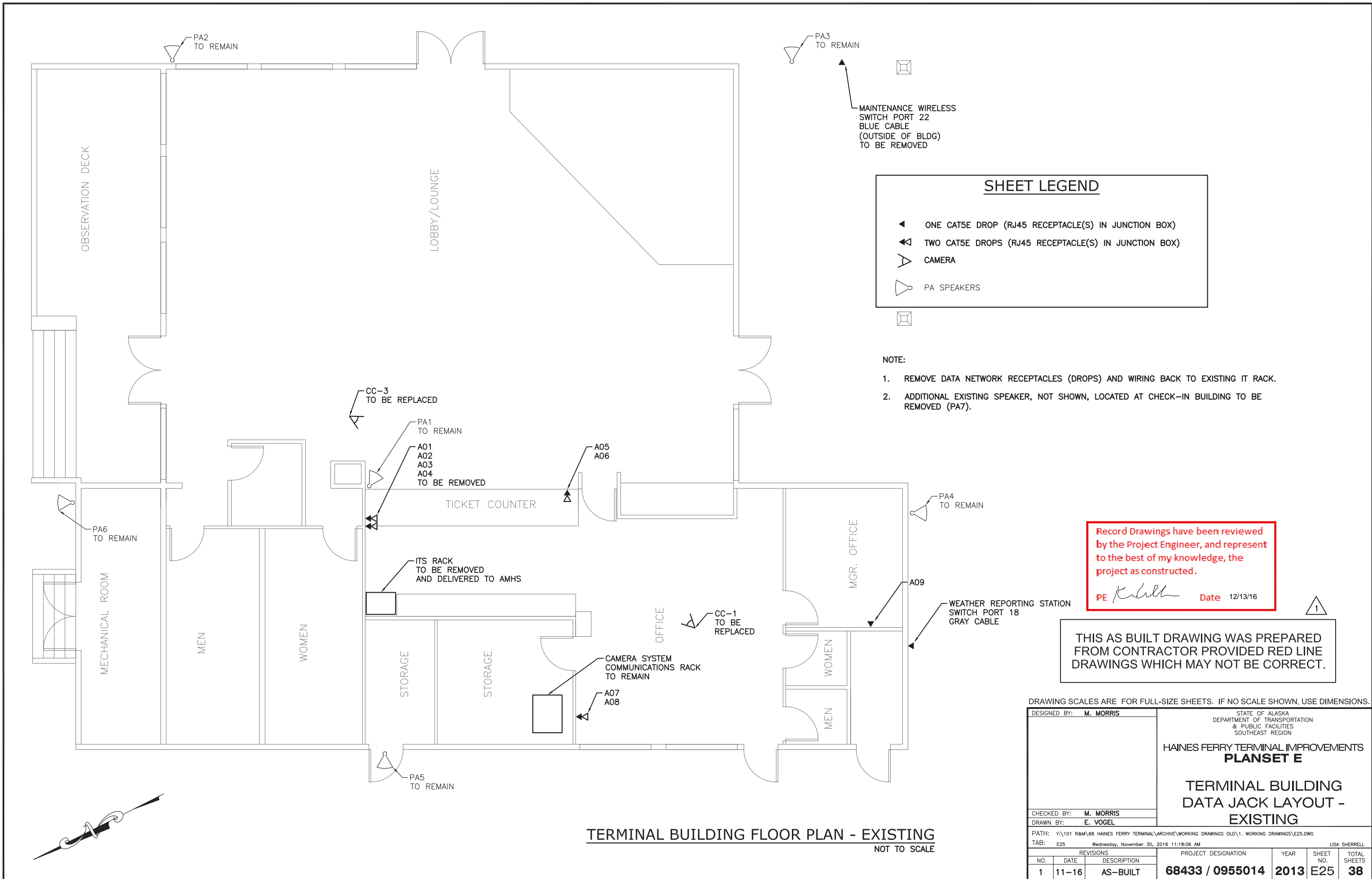
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
		<b>COVERED WALKWAY NO. 2</b>			
CHECKED BY: M. MORRIS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
DRAWN BY: E. VOGEL		68433 / 0955014		2013	E24 38
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E24.DWG					
TAB: E24 Wednesday, November 30, 2016 11:17:53 AM LISA SHERRELL					
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	TOTAL SHEETS
1	11-16	AS-BUILT	68433 / 0955014	2013	E24 38



**TERMINAL BUILDING FLOOR PLAN - EXISTING**  
NOT TO SCALE

SHEET LEGEND	
	ONE CAT5E DROP (RJ45 RECEPTACLE(S) IN JUNCTION BOX)
	TWO CAT5E DROPS (RJ45 RECEPTACLE(S) IN JUNCTION BOX)
	CAMERA
	PA SPEAKERS

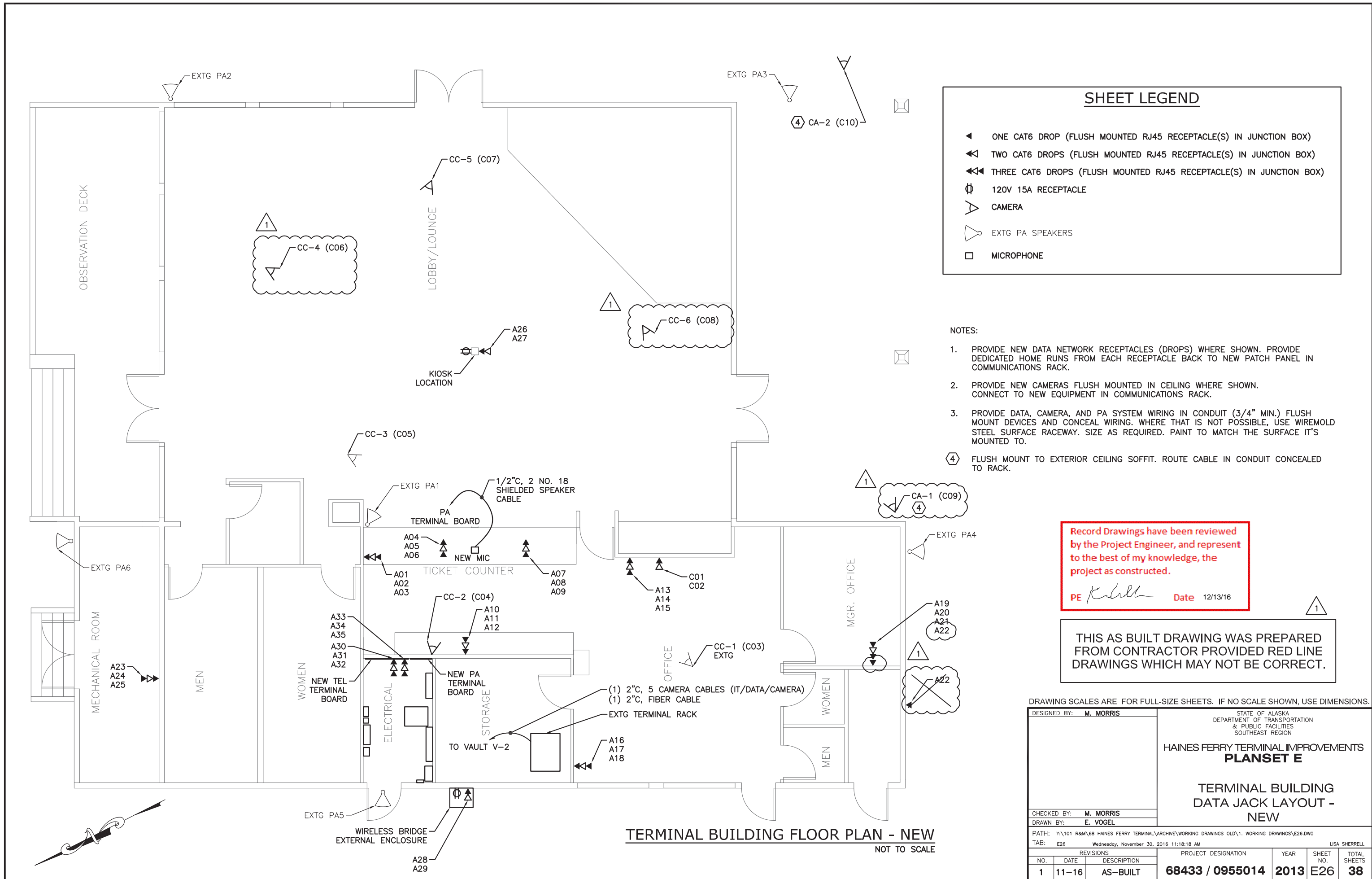
- NOTE:**
- REMOVE DATA NETWORK RECEPTACLES (DROPS) AND WIRING BACK TO EXISTING IT RACK.
  - ADDITIONAL EXISTING SPEAKER, NOT SHOWN, LOCATED AT CHECK-IN BUILDING TO BE REMOVED (PA7).

Record Drawings have been reviewed  
by the Project Engineer, and represent  
to the best of my knowledge, the  
project as constructed.  
PE *K. Kullb* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED  
FROM CONTRACTOR PROVIDED RED LINE  
DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
		<b>TERMINAL BUILDING DATA JACK LAYOUT - EXISTING</b>			
CHECKED BY: M. MORRIS					
DRAWN BY: E. VOGEL					
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E25.DWG					
TAB: E25		Wednesday, November 30, 2016 11:18:06 AM		LISA SHERRELL	
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	<b>68433 / 0955014</b>	<b>2013</b>	<b>E25</b>
					<b>38</b>



**SHEET LEGEND**

- ◀ ONE CAT6 DROP (FLUSH MOUNTED RJ45 RECEPTACLE(S) IN JUNCTION BOX)
- ◀◀ TWO CAT6 DROPS (FLUSH MOUNTED RJ45 RECEPTACLE(S) IN JUNCTION BOX)
- ◀◀◀ THREE CAT6 DROPS (FLUSH MOUNTED RJ45 RECEPTACLE(S) IN JUNCTION BOX)
- ⊕ 120V 15A RECEPTACLE
- ◀ CAMERA
- ◀ EXTG PA SPEAKERS
- ◻ MICROPHONE

**NOTES:**

1. PROVIDE NEW DATA NETWORK RECEPTACLES (DROPS) WHERE SHOWN. PROVIDE DEDICATED HOME RUNS FROM EACH RECEPTACLE BACK TO NEW PATCH PANEL IN COMMUNICATIONS RACK.
2. PROVIDE NEW CAMERAS FLUSH MOUNTED IN CEILING WHERE SHOWN. CONNECT TO NEW EQUIPMENT IN COMMUNICATIONS RACK.
3. PROVIDE DATA, CAMERA, AND PA SYSTEM WIRING IN CONDUIT (3/4" MIN.) FLUSH MOUNT DEVICES AND CONCEAL WIRING. WHERE THAT IS NOT POSSIBLE, USE WIREMOLD STEEL SURFACE RACEWAY. SIZE AS REQUIRED. PAINT TO MATCH THE SURFACE IT'S MOUNTED TO.
- ④ FLUSH MOUNT TO EXTERIOR CEILING SOFFIT. ROUTE CABLE IN CONDUIT CONCEALED TO RACK.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

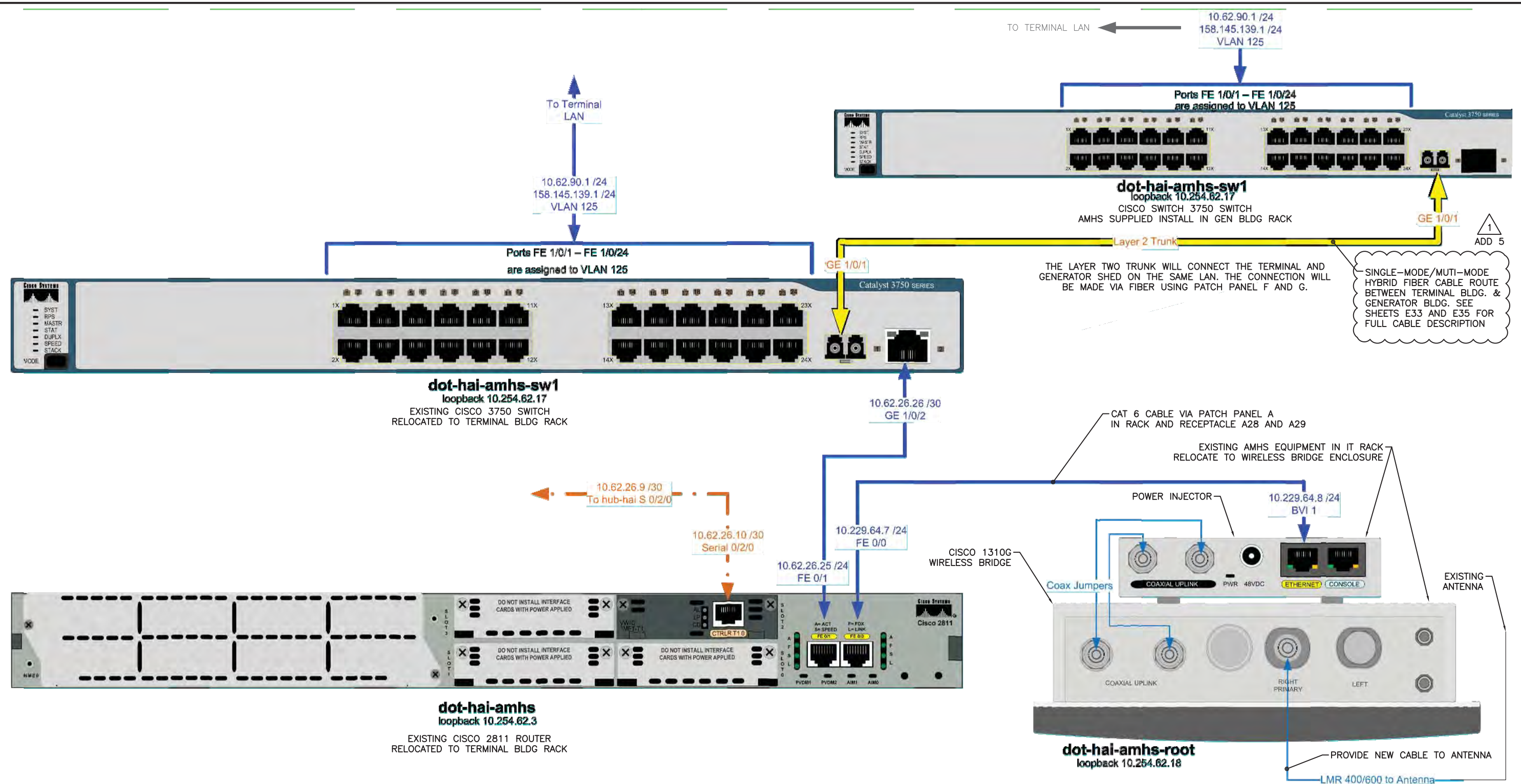
PE *K. Kullb* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION															
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>															
		<b>TERMINAL BUILDING DATA JACK LAYOUT - NEW</b>															
CHECKED BY: M. MORRIS		PROJECT DESIGNATION															
DRAWN BY: E. VOGEL		YEAR															
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E26.DWG		SHEET NO.															
TAB: E26		TOTAL SHEETS															
Wednesday, November 30, 2016 11:18:18 AM		LISA SHERRELL															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-16</td> <td>AS-BUILT</td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION	1	11-16	AS-BUILT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>68433 / 0955014</b></td> <td style="width: 10%;">2013</td> <td style="width: 10%;">E26</td> <td style="width: 55%;"><b>38</b></td> </tr> </table>			<b>68433 / 0955014</b>	2013	E26	<b>38</b>
REVISIONS																	
NO.	DATE	DESCRIPTION															
1	11-16	AS-BUILT															
<b>68433 / 0955014</b>	2013	E26	<b>38</b>														

**TERMINAL BUILDING FLOOR PLAN - NEW**  
NOT TO SCALE



THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

**TERMINAL CONNECTION DIAGRAM**  
NO SCALE

**Legend**

Serial	V.35	RS-530	Ethernet Cat5/6	10 Mbps	100 Mbps	1000 Mbps
Circuits	56K	FE-1	Ethernet MMF	10 Mbps	100 Mbps	1000 Mbps
DB-3			Ethernet SMF	10 Mbps	100 Mbps	1000 Mbps
OC-3			Ethernet Trunk	10 Mbps	100 Mbps	1000 Mbps
TL/SMF						

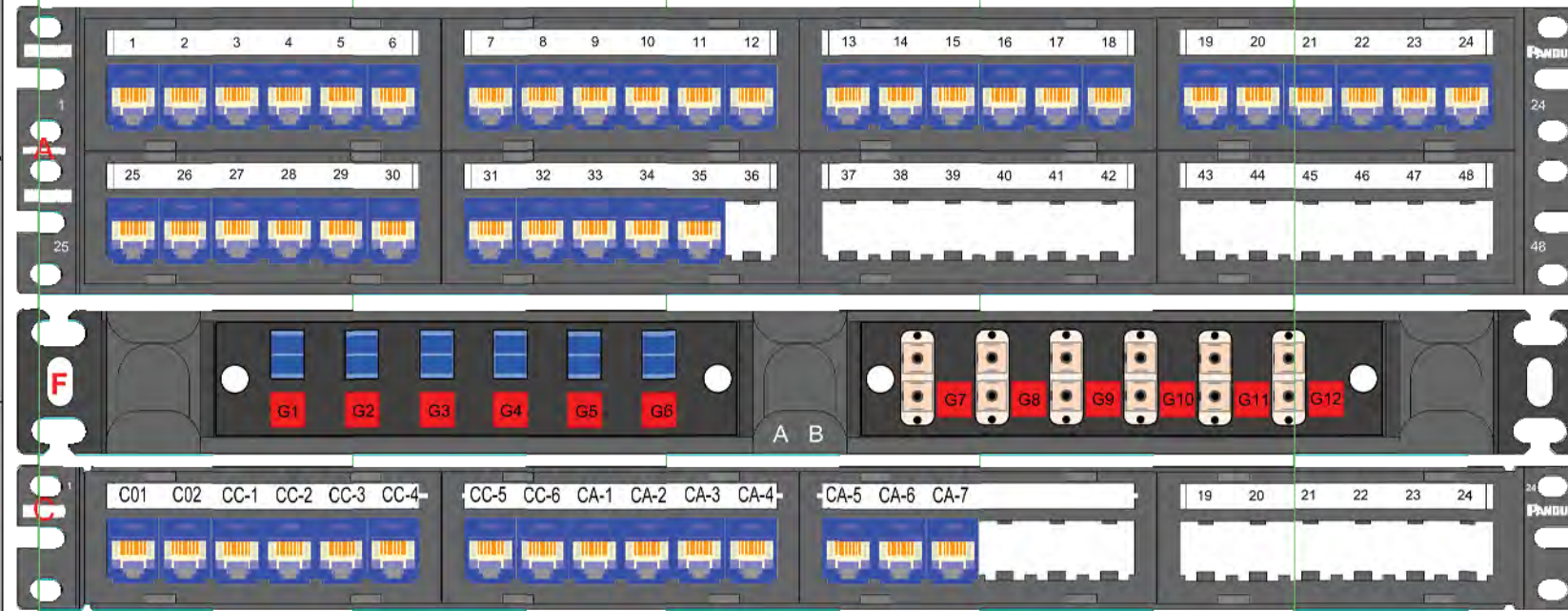
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		TERMINAL CONNECTION DIAGRAM			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E27.DWG					
TAB: E27 Wednesday, November 30, 2016 11:18:31 AM USA SHERRELL					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	68433 / 0955014	2013	E27 38

## Haines Terminal Patch Panel Layout/Labeling



PANDUIT CP48WSBLY  
PATCH PANEL A

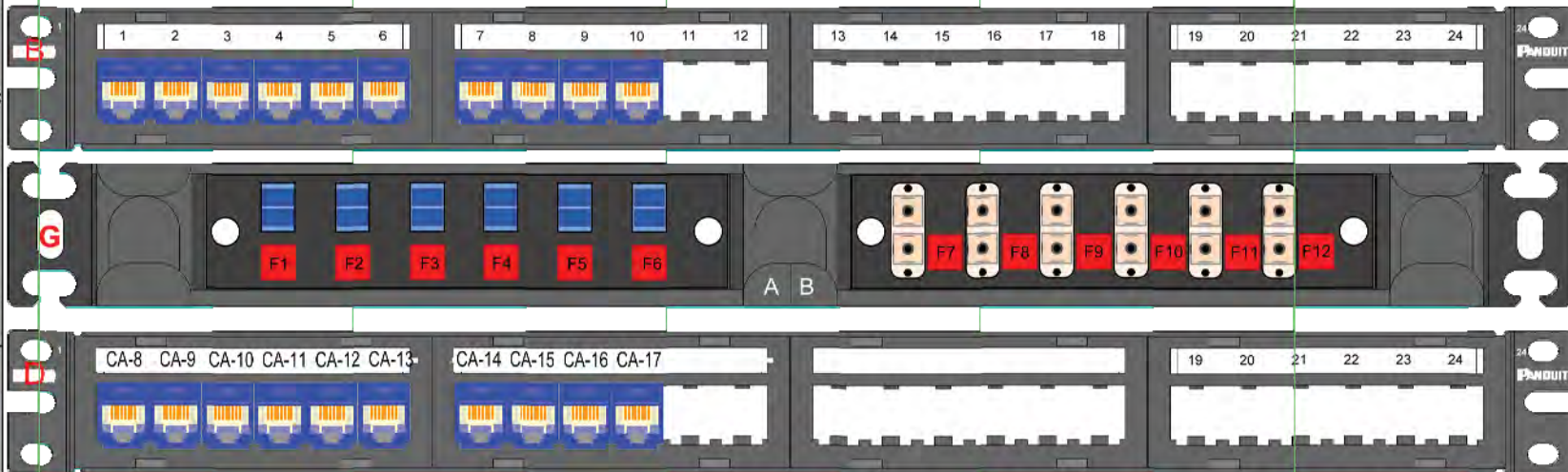
FIBER PATCH PANEL F

PANDUIT CP24WSBLY  
PATCH PANEL C

NOTE:

ALL EQUIPMENT ON THIS SHEET TO BE CONTRACTOR SUPPLIED.

## Haines Generator Shed Patch Panel Layout/Labeling



PANDUIT CP24WSBLY  
PATCH PANEL B

FIBER PATCH PANEL G

PANDUIT CP24WSBLY  
PATCH PANEL D

### TERMINAL RACK ENLARGED VIEWS

NO SCALE

Record Drawings have been reviewed  
by the Project Engineer, and represent  
to the best of my knowledge, the  
project as constructed.

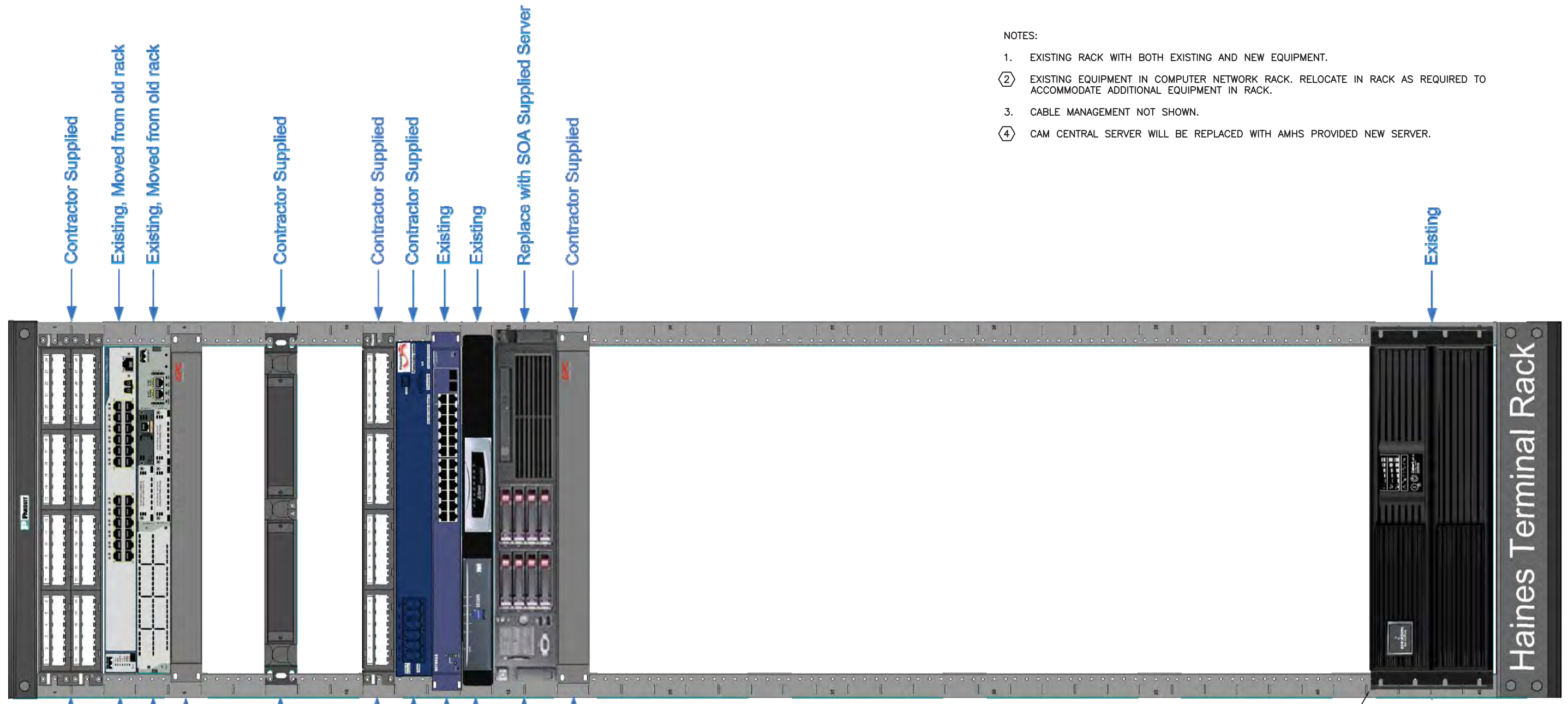
PE *K. Kelly* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		TERMINAL RACK ENLARGED VIEWS			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E28.DWG					
TAB: E28 Wednesday, November 30, 2016 11:19:03 AM LISA SHERRELL					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	68433 / 0955014	2013	E28 38

1

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NOTES:

- 1. EXISTING RACK WITH BOTH EXISTING AND NEW EQUIPMENT.
- ② EXISTING EQUIPMENT IN COMPUTER NETWORK RACK. RELOCATE IN RACK AS REQUIRED TO ACCOMMODATE ADDITIONAL EQUIPMENT IN RACK.
- 3. CABLE MANAGEMENT NOT SHOWN.
- ④ CAM CENTRAL SERVER WILL BE REPLACED WITH AMHS PROVIDED NEW SERVER.

- Panduit CP48WSBLY Patch Panel A
- ② Cisco 3750 Switch
- ② Cisco 2811 Router
- APC AP9562 PDU
- Coming CCH-01U (CF) Patch Panel F
- Panduit CP24WSBLY Patch Panel C
- PowerDSign 9506 HPoE Inj.
- ② NetGear GS724TP Rackshelf
- ④ Cam Central Server
- APC AP9562 PDU

② LIEBERT GXT3 UPS

①

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *[Signature]* Date 12/13/16

TERMINAL BUILDING COMMUNICATIONS RACK LAYOUT  
NO SCALE

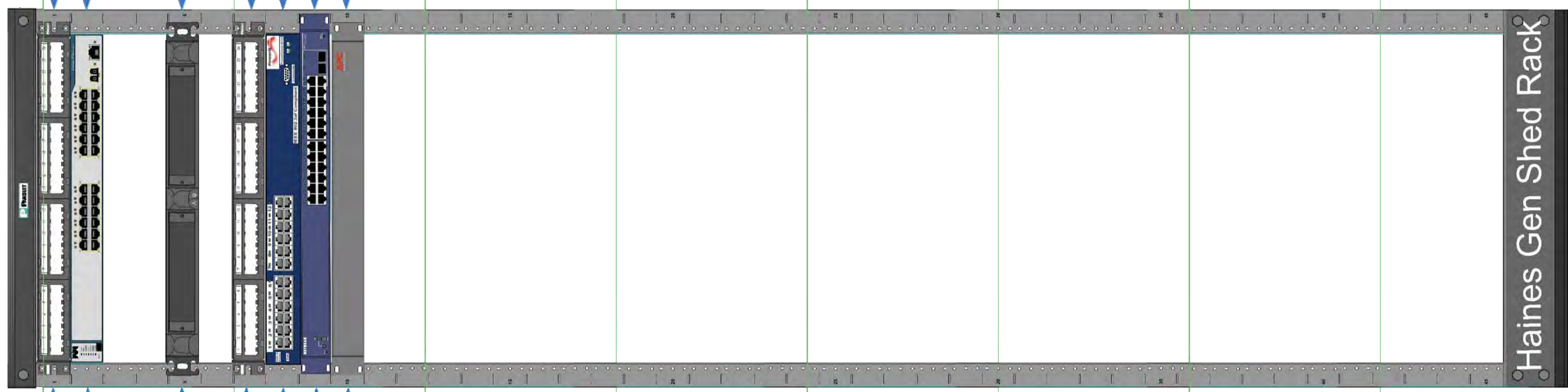
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>TERMINAL BUILDING RACK LAYOUT</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E29.DWG		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
TAB: E29	Wednesday, November 30, 2016 11:19:31 AM	68433 / 0955014		2013	E29 38
REVISIONS					
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT			



Contractor Supplied  
AMHS Supplied  
Contractor Supplied  
Contractor Supplied  
Contractor Supplied  
Contractor Supplied

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Panduit CP24WSBLY Patch Panel B  
Cisco 3750 Switch  
Coming CCH-01U (CF) Patch Panel G  
Panduit CP24WSBLY Patch Panel D  
PowerDSign 9512 HPoE Inj.  
NetGear GS724TP  
APC AP9562 PDU

- NOTES:
1. NEW RACK. SEE NOTES, SHEET E36.
  2. CABLE MANAGEMENT NOT SHOWN.

**GENERATOR BUILDING RACK LAYOUT**  
NO SCALE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Lill* Date 12/13/16

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION  <b>HAINES FERRY TERMINAL IMPROVEMENTS          PLANSET E</b>  <b>GENERATOR BUILDING          RACK LAYOUT</b>				
CHECKED BY: M. MORRIS						
DRAWN BY: E. VOGEL		PROJECT DESIGNATION <b>68433 / 0955014</b>				
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E30.DWG TAB: E30		YEAR	SHEET NO.	TOTAL SHEETS		
Wednesday, November 30, 2016 11:20:05 AM USA SHERRELL		2013	E30	38		
NO.	DATE	DESCRIPTION				
1	11-16	AS-BUILT				

## CAMERA SCHEDULE

New/Used	Camera No.	Patch Panel No.	Description	Location	Mounting	Part Number	Comment
Existing-Replace	CC-1	C03	Indoor Fixed PoE	Terminal Office	Ceiling or wall	CA-CCSI-AX-3004	Replace Existing Analog Camera
New	CC-2	C04	Indoor Fixed PoE	Terminal Office	Ceiling or wall	CA-CCSI-AX-3004	Coordinate Location with Owner
Existing-Replace	CC-3	C05	Indoor Fixed PoE	Terminal Lobby	Ceiling or wall	CA-CCSI-AX-3064	Replace Existing Analog Camera
New	CC-4	C06	Indoor Pan/Tilt/Zoom PoE	Terminal Lobby	Ceiling or wall	CA-CCSI-AX-5014	Coordinate Location with Owner
New	CC-5	C07	Indoor Fixed PoE	Terminal Lobby	Ceiling or wall	CA-CCSI-AX-3364	Coordinate Location with Owner
New	CC-6	C08	Indoor Fixed PoE	Terminal Lobby	Ceiling or wall	CA-CCSI-AX-3364	Coordinate Location with Owner
New	CA-1	C09	Outdoor Fixed PoE	Terminal Soffit	Ceiling Mount	CA-CCSI-AX-3114	Coordinate Location with Owner
New	CA-2	C10	Outdoor Fixed PoE	Terminal Soffit	Ceiling Mount	CA-CCSI-AX-3114	Coordinate Location with Owner
Existing-Replace	CA-3	C11	Outdoor Pan/Tilt/Zoom HPoE	West Staging Area	Pole Mount	CA-CCSI-AX-6044	Remove old camera from storage building and install new camera on L9
Existing-Replace	CA-4	C12	Outdoor Pan/Tilt/Zoom HPoE	West Staging Area	Pole Mount	CA-CCSI-AX-6044	Remove old camera from L2 and install new camera on L2
New	CA-5	C13	Outdoor Pan/Tilt/Zoom HPoE	West Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L4
New	CA-6	C14	Outdoor Pan/Tilt/Zoom HPoE	West Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L5
New	CA-7	C15	Outdoor Pan/Tilt/Zoom HPoE	West Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L10
Existing-Replace	CA-8	D01	Outdoor Pan/Tilt/Zoom HPoE	By Bridge	Pole Mount	CA-CCSI-AX-6044	Install new camera on L22
Existing-Replace	CA-9	D02	Outdoor Pan/Tilt/Zoom HPoE	West Lift Tower	Pole Mount	CA-CCSI-AX-6044	Install new camera on West lift tower pole facing ENE
Existing-Replace	CA-10	D03	Outdoor Pan/Tilt/Zoom HPoE	West Lift Tower	Pole Mount	CA-CCSI-AX-6044	Install new camera on West lift tower pole facing WSW
Existing-Replace	CA-11	D04	Outdoor Pan/Tilt/Zoom HPoE	East Lift Tower	Pole Mount	CA-CCSI-AX-6044	Install new camera on East lift tower pole facing ENE
New	CA-12	D05	Outdoor Pan/Tilt/Zoom HPoE	East Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L23
New	CA-13	D06	Outdoor Fixed HPoE	Generator Building	Wall Mount	CA-CCSI-AX-3364L	Coordinate Location with Owner
New	CA-14	D07	Outdoor Fixed HPoE	Generator Building	Wall Mount	CA-CCSI-AX-3364L	Coordinate Location with Owner
New	CA-15	D08	Outdoor Pan/Tilt/Zoom HPoE	East Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L15
New	CA-16	D09	Outdoor Pan/Tilt/Zoom HPoE	East Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L26
New	CA-17	D10	Outdoor Pan/Tilt/Zoom HPoE	East Staging Area	Pole Mount	CA-CCSI-AX-6044	Install new camera on L29

NOTE:

CAMERA PART NUMBERS ARE FOR CAM CENTRAL (AMHS CAMERA INTEGRATOR) 1-877-876-3838. PROVIDE ALL NEEDED ACCESSORIES. PART NUMBER DOES NOT INCLUDE ACCESSORIES.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

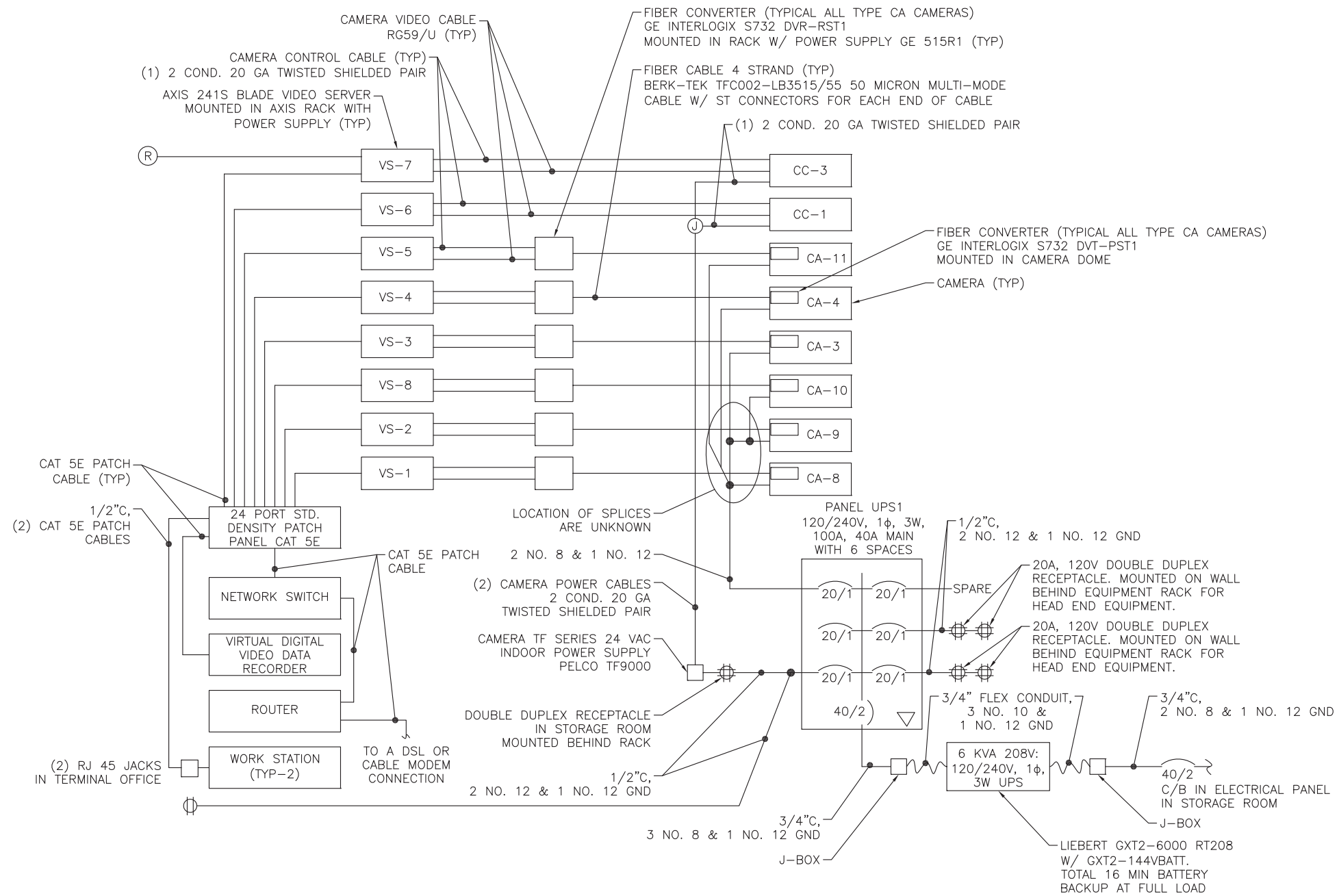
PE *K. Kelly* Date 12/13/16



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DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
		<b>CAMERA SCHEDULE</b>			
CHECKED BY: M. MORRIS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
DRAWN BY: E. VOGEL		68433 / 0955014		2013	E31 38
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E31.DWG					
TAB: E31 Wednesday, November 30, 2016 11:20:37 AM USA SHERRELL					
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT			



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16

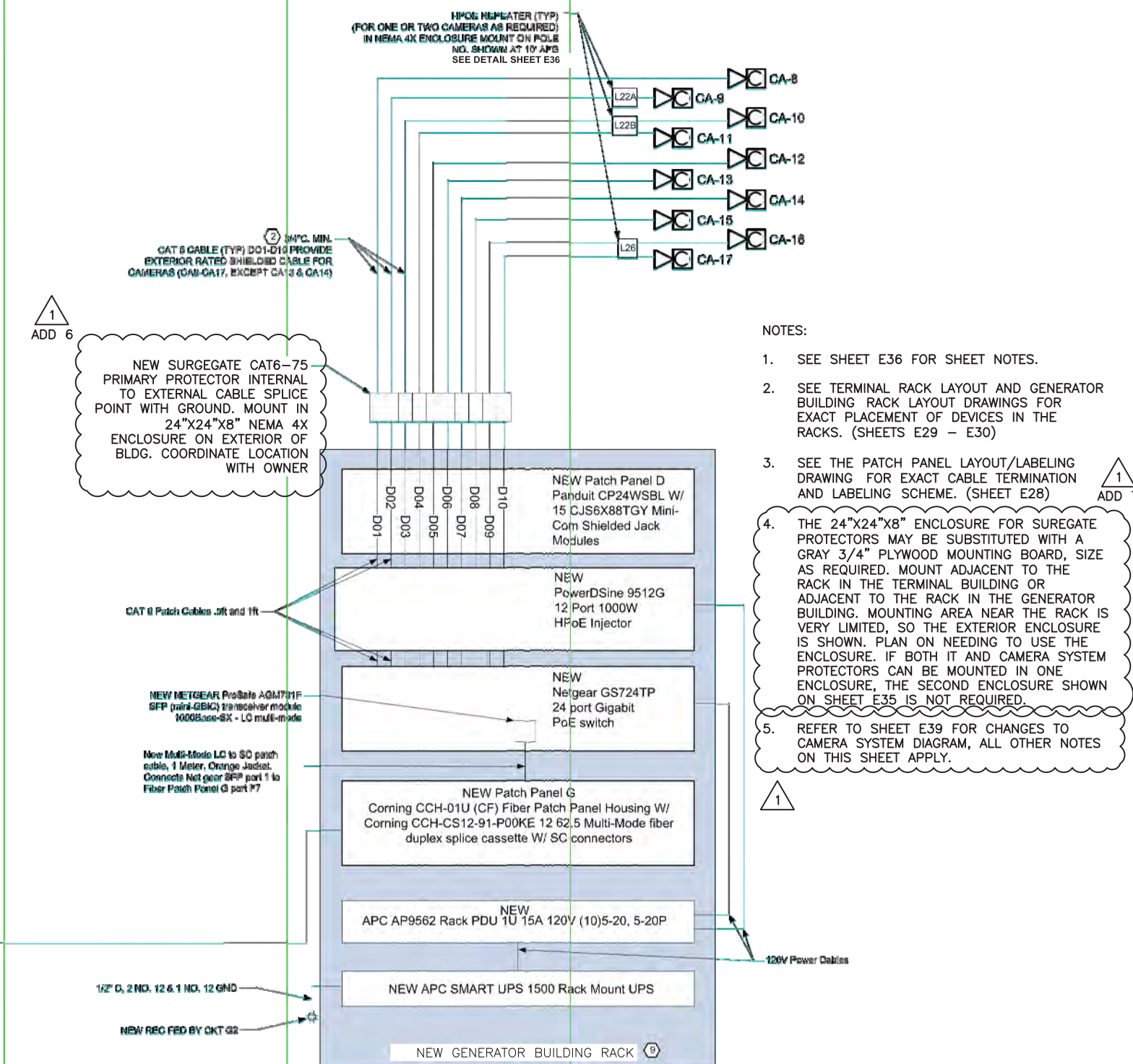
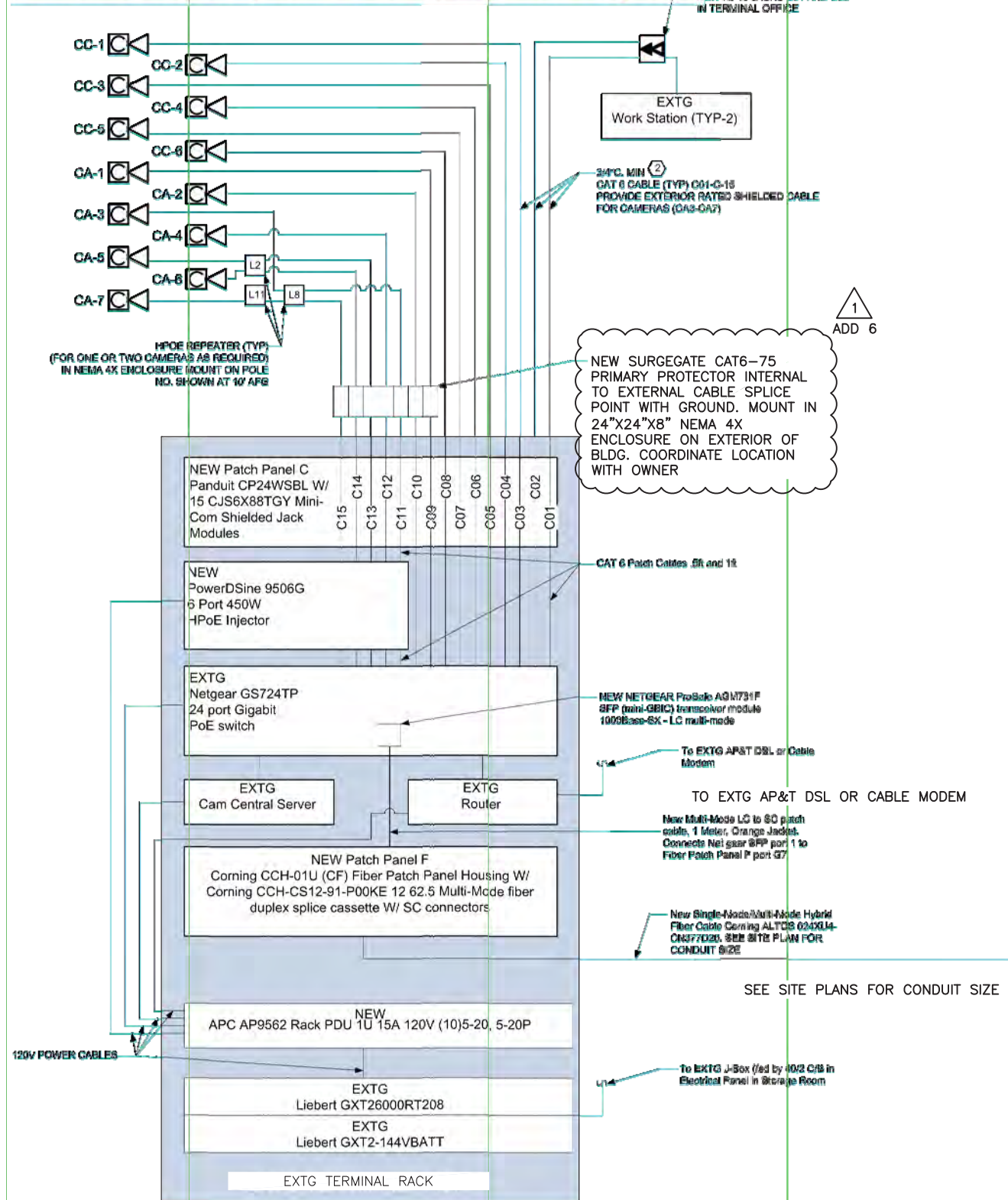
**CAMERA SYSTEM SCHEMATIC - EXISTING**  
NO SCALE

1  
THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

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DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
		<b>CAMERA SYSTEM SCHEMATIC - EXISTING</b>			
CHECKED BY: M. MORRIS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
DRAWN BY: E. VOGEL		68433 / 0955014		2013	E32 38
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E32.DWG					
TAB: E32 Wednesday, November 30, 2016 11:21:47 AM LISA SHERRELL					
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	TOTAL SHEETS
1	11-16	AS-BUILT	68433 / 0955014	2013	E32 38

# Haines Camera System Data Connection Diagram



- NOTES:
- SEE SHEET E36 FOR SHEET NOTES.
  - SEE TERMINAL RACK LAYOUT AND GENERATOR BUILDING RACK LAYOUT DRAWINGS FOR EXACT PLACEMENT OF DEVICES IN THE RACKS. (SHEETS E29 - E30)
  - SEE THE PATCH PANEL LAYOUT/LABELING DRAWING FOR EXACT CABLE TERMINATION AND LABELING SCHEME. (SHEET E28)
  - THE 24"X24"X8" ENCLOSURE FOR SUREGATE PROTECTORS MAY BE SUBSTITUTED WITH A GRAY 3/4" PLYWOOD MOUNTING BOARD, SIZE AS REQUIRED. MOUNT ADJACENT TO THE RACK IN THE TERMINAL BUILDING OR ADJACENT TO THE RACK IN THE GENERATOR BUILDING. MOUNTING AREA NEAR THE RACK IS VERY LIMITED, SO THE EXTERIOR ENCLOSURE IS SHOWN. PLAN ON NEEDING TO USE THE ENCLOSURE. IF BOTH IT AND CAMERA SYSTEM PROTECTORS CAN BE MOUNTED IN ONE ENCLOSURE, THE SECOND ENCLOSURE SHOWN ON SHEET E35 IS NOT REQUIRED.
  - REFER TO SHEET E39 FOR CHANGES TO CAMERA SYSTEM DIAGRAM, ALL OTHER NOTES ON THIS SHEET APPLY.

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

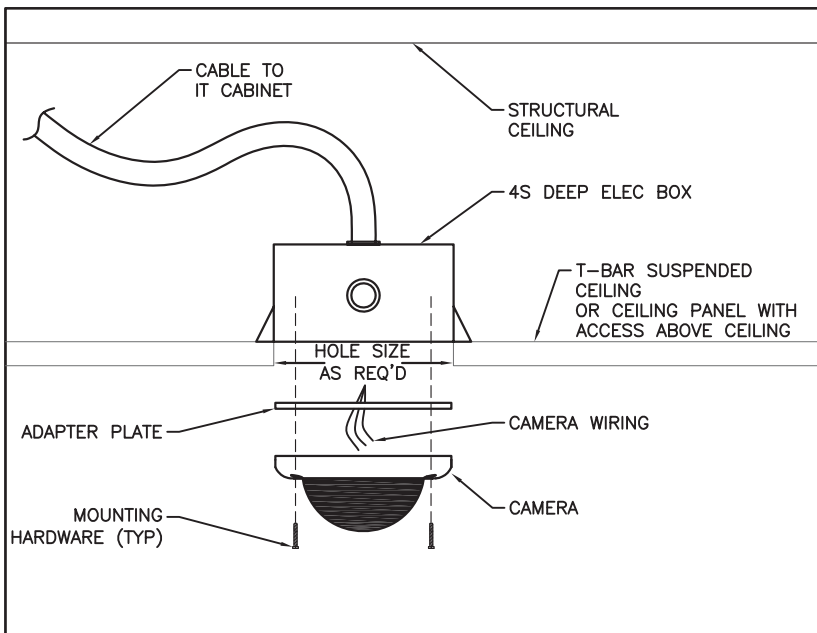
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *Kulth* Date 12/13/16

CAMERA SYSTEM RISER DIAGRAM - NEW  
NO SCALE

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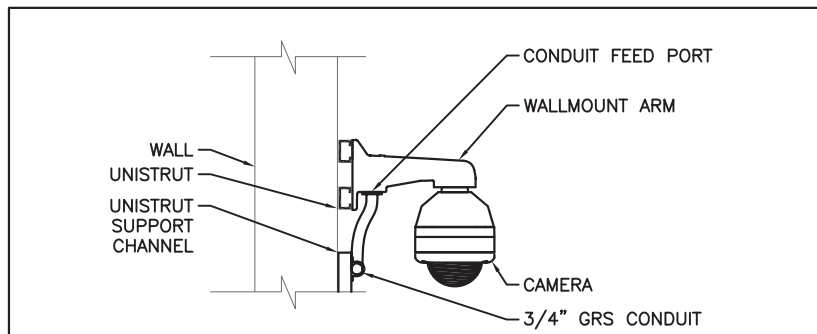
DESIGNED BY: M. MORRIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
CHECKED BY: M. MORRIS	HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>	
DRAWN BY: E. VOGEL	CAMERA SYSTEM RISER DIAGRAM - NEW	
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E35.DWG		
TAB: E33	Wednesday, November 30, 2016 11:22:00 AM	USA SHERRELL
NO.	DATE	DESCRIPTION
1	11-16	AS-BUILT
PROJECT DESIGNATION		YEAR
68433 / 0955014		2013
SHEET NO.	TOTAL SHEETS	
E33	38	



**1 CAMERA CEILING RECESSED MOUNTING DETAIL** NO SCALE

NOTES:

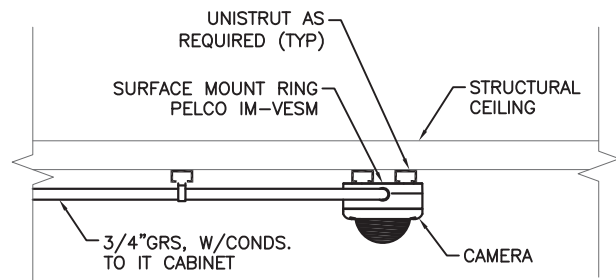
1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA CEILING MOUNT KIT AND MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.



**3 CAMERA SURFACE FED WALLMOUNT MOUNTING DETAIL** NO SCALE

NOTES:

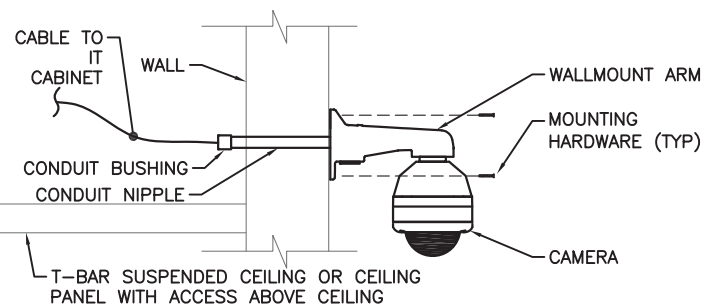
1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA WALL MOUNT KIT AND MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.
3. FEED WITH FLEX CONDUIT FROM J-BOX MOUNTED NEXT TO CAMERA ON WALL.
4. UNISTRUT MAY BE OMITTED IF NOT NEEDED. A SECURE STRUCTURAL MOUNT IS REQUIRED (SAFETY FACTOR OF 4 MIN).



**2 CAMERA CEILING SURFACE MOUNTING DETAIL** NO SCALE

NOTES:

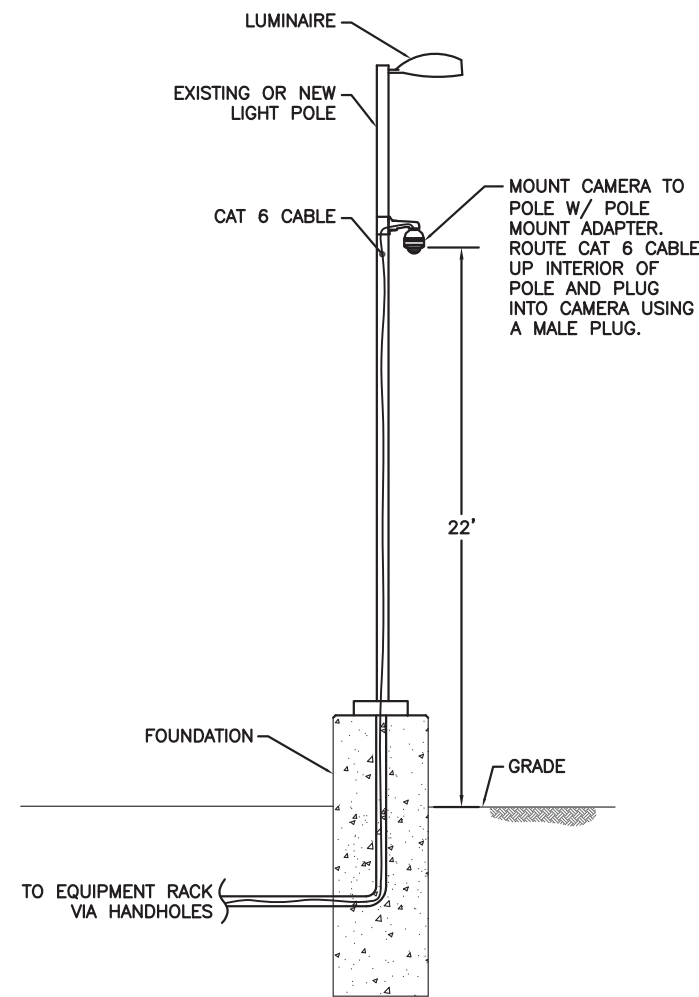
1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA CEILING MOUNT KIT AND MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.



**4 CAMERA WALLMOUNT MOUNTING DETAIL** NO SCALE

NOTES:

1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA WALL MOUNT KIT AND MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.
3. FEED FROM ABOVE SUSPENDED CEILING TO BACK OF CAMERA.



**5 CAMERA POLE MOUNTING DETAIL** NO SCALE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *[Signature]* Date 12/13/16

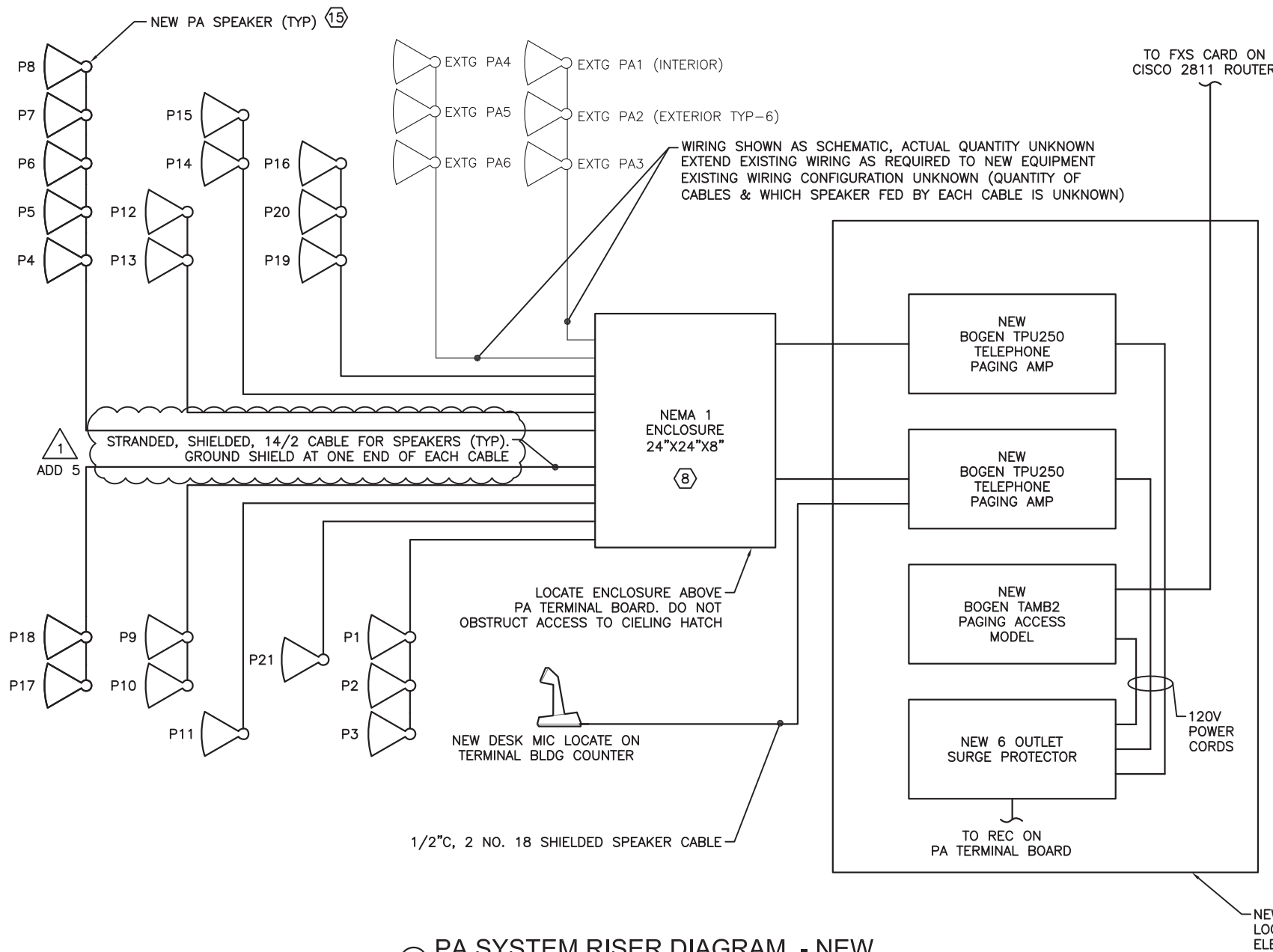


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CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>CAMERA DETAILS</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E34.DWG					
TAB: E34 Wednesday, November 30, 2016 11:22:46 AM LISA SHERRELL					
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION		SHEET NO.	
1	11-16	AS-BUILT		68433 / 0955014	2013 E34 38

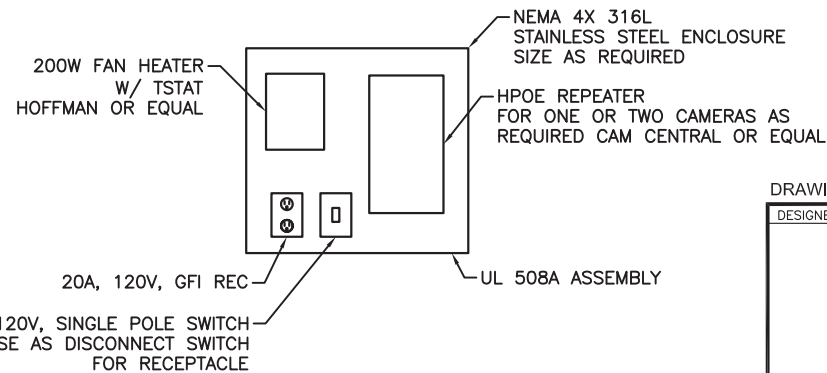




① PA SYSTEM RISER DIAGRAM - NEW  
NO SCALE

NOTES: (APPLICABLE TO SHEETS E30, E33, E35 AND E36)

1. COORDINATE WITH AP&T TO PROVIDE A NEW TELEPHONE AND DATA SERVICE TO THE TERMINAL BUILDING. PROVIDE A TELEPHONE TERMINAL BOARD IN TERMINAL ELECTRICAL ROOM FOR NEW AP&T EQUIPMENT. AP&T WILL RECONNECT TO EXISTING TELEPHONE SYSTEM. CONNECT TO EXISTING TELEPHONE SYSTEM AND NEW AP&T DEMARC AS SHOWN. PAY AP&T FOR THEIR WORK. PROVIDE A PA TERMINAL BOARD IN TERMINAL ELECTRICAL ROOM FOR NEW PA SYSTEM EQUIPMENT.
2. PROVIDE CONDUIT PER SITE PLANS OTHERWISE PROVIDE 3/4" MIN. DO NOT EXCEED 40% FILL IN CONDUIT.
3. PROVIDE CABLE MANAGEMENT EQUIPMENT TO NEATLY TRAIN CABLES FROM CONDUIT TO RACK AND BETWEEN EQUIPMENT IN RACK. (MIN 4 CABLE MANAGEMENT BARS PER RACK)
4. PROVIDE A LABEL AT EACH JACK AND EACH PORT OF THE PATCH PANEL PER OWNER.
5. AFTER TERMINATING CAT 6 CABLES AT JACKS AND PATCH PANELS, TEST CABLES PER CAT 6 EIA/TIA STANDARDS AND PER THE SPECIFICATIONS. PROVIDE ELECTRONIC AND HARD COPIES OF THE TEST REPORTS. REPLACE CABLES THAT FAIL THE TEST, AND TEST REPLACEMENT.
6. PROVIDE (25) BLUE CAT 6 PATCH CORDS WITH FACTORY INSTALLED MALE CONNECTORS, 20 AT 3', 3 AT 7', AND 2 AT 10'.
7. PROVIDE QUANTITY OF SPEAKER CABLE AS REQUIRED. ROUTE IN CONDUIT AS REQUIRED AND AS SHOWN ON SITE PLANS. PROVIDE CONDUIT SIZE AS SPECIFIED, OTHERWISE PROVIDE 3/4" MIN. DO NOT EXCEED 40% FILL IN CONDUIT.
8. INSTALL COMPRESSION TERMINAL STRIP IN ENCLOSURE.
9. IN THE GENERATOR BUILDING, PROVIDE A 19" EIA, 26" DEEP, 70" HIGH FLOOR MOUNTED RACK WITH 40 RACK UNITS CAPACITY MIN (40 RU). MIDDLE ATLANTIC MRK-4026 OR EQUAL. PROVIDE WITH LOCKABLE FRONT DOOR, SOLID SIDE AND BACK DOORS AND WITH 10" TOP MOUNT FAN WITH INTEGRAL THERMOSTAT FOR ACTIVE THERMAL MANAGEMENT.
10. NOT USED.
11. PROVIDE A RJ-11 JACK IN A J-BOX IN THE STORAGE BUILDING. CONNECT TO 6"x6"x4" ENCLOSURE IN STORAGE BUILDING. PROVIDE A 2" C FROM ENCLOSURE TO TTB IN TERMINAL BUILDING. COORDINATE WITH AP&T TO CONNECT RJ-11 JACK TO TERMINAL TELEPHONE SYSTEM.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. PAGING - WIDE DISPERSION REENTRANT HORN LOUDSPEAKER. EXTERIOR MOUNT 15W WEATHERPROOF. BOGEN KFLDS30T OR EQUAL. ROUTE CABLES FOR PA SPEAKERS IN EAST STAGING AREA THROUGH VAULTS V1 AND V3, THEN TO A WIREWAY BELOW THE LIGHTING CONTACTORS IN THE GENERATOR BUILDING. ROUTE CONDUITS FEEDING LIGHT POLE HANDHOLES FROM THE WIREWAY. NIPPLE BETWEEN LIGHTING CONTACTORS AND WIREWAY. ROUTE CAMERA HPOE CIRCUIT THROUGH WIREWAY. SIZE WIREWAY AS REQUIRED.



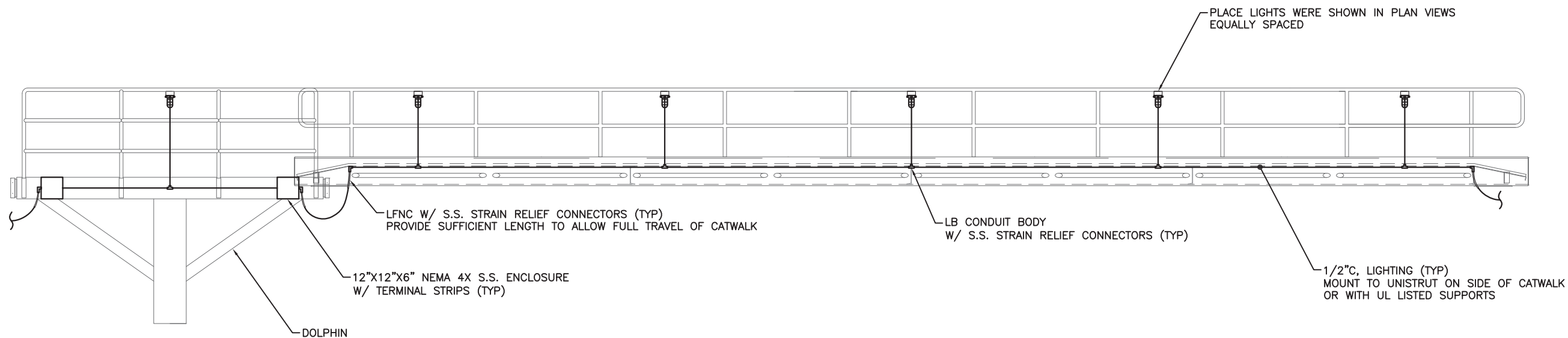
② HPOE REPEATER ELEVATION - NEW  
NO SCALE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kull* Date 12/13/16

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DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

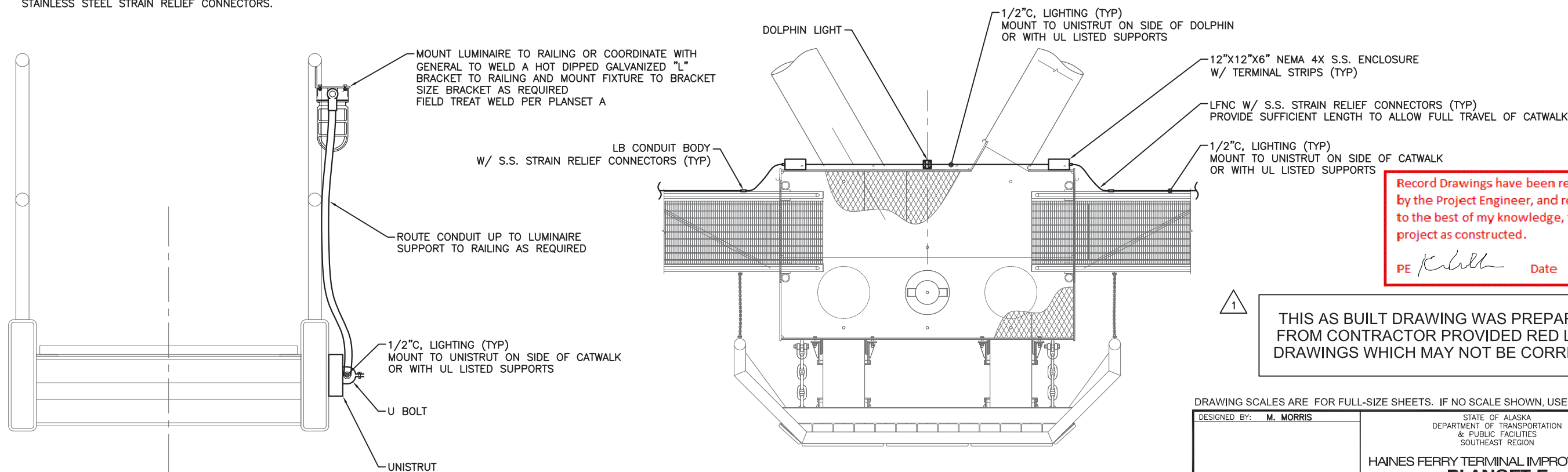
DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		<b>HAINES FERRY TERMINAL IMPROVEMENTS PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>PA SYSTEM RISER DIAGRAM - NEW</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E37.DWG					
TAB: E36 Wednesday, November 30, 2016 11:24:08 AM USA SHERRELL					
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.
NO.	DATE	DESCRIPTION			TOTAL SHEETS
1	11-16	AS-BUILT		2013	E36 38
<b>68433 / 0955014</b>					



① TYPICAL CATWALK - ELEVATION 

NOTE:

AT CONTRACTORS OPTION OR DUE TO FIELD CONDITIONS, A DIFFERENT METHOD OF CONDUIT INSTALLATION MAY BE USED INCLUDING USE OF CONDUIT BODIES. PROVIDE ENCLOSURES ON DOLPHINS, FLEX CONDUIT BETWEEN DOLPHIN AND CATWALK, AND STAINLESS STEEL STRAIN RELIEF CONNECTORS.



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
PE *K. Kullb* Date 12/13/16

⚠ THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

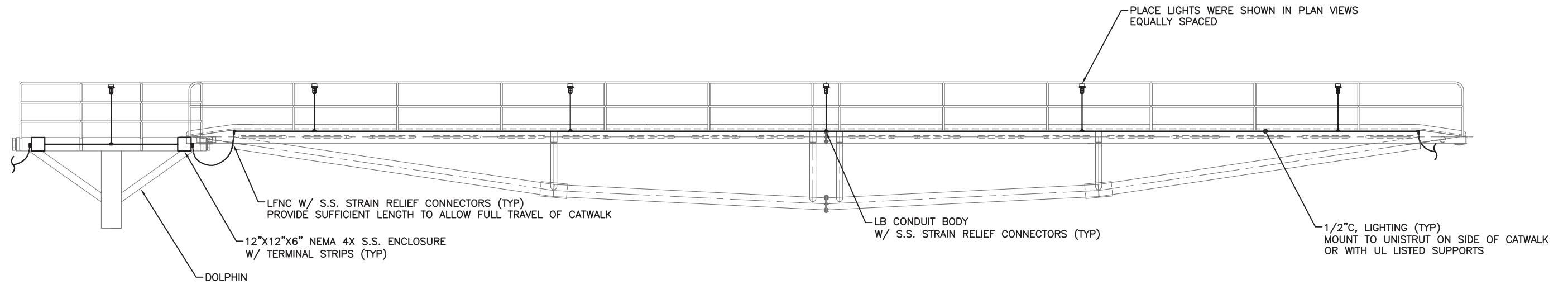
② TYPICAL CATWALK - SECTION 

③ TYPICAL DOLPHIN - PLAN VIEW 

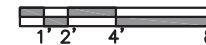
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>CATWALK DETAILS</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E38 E36.DWG					
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	<b>68433 / 0955014</b>	<b>2013</b>	<b>E37 38</b>



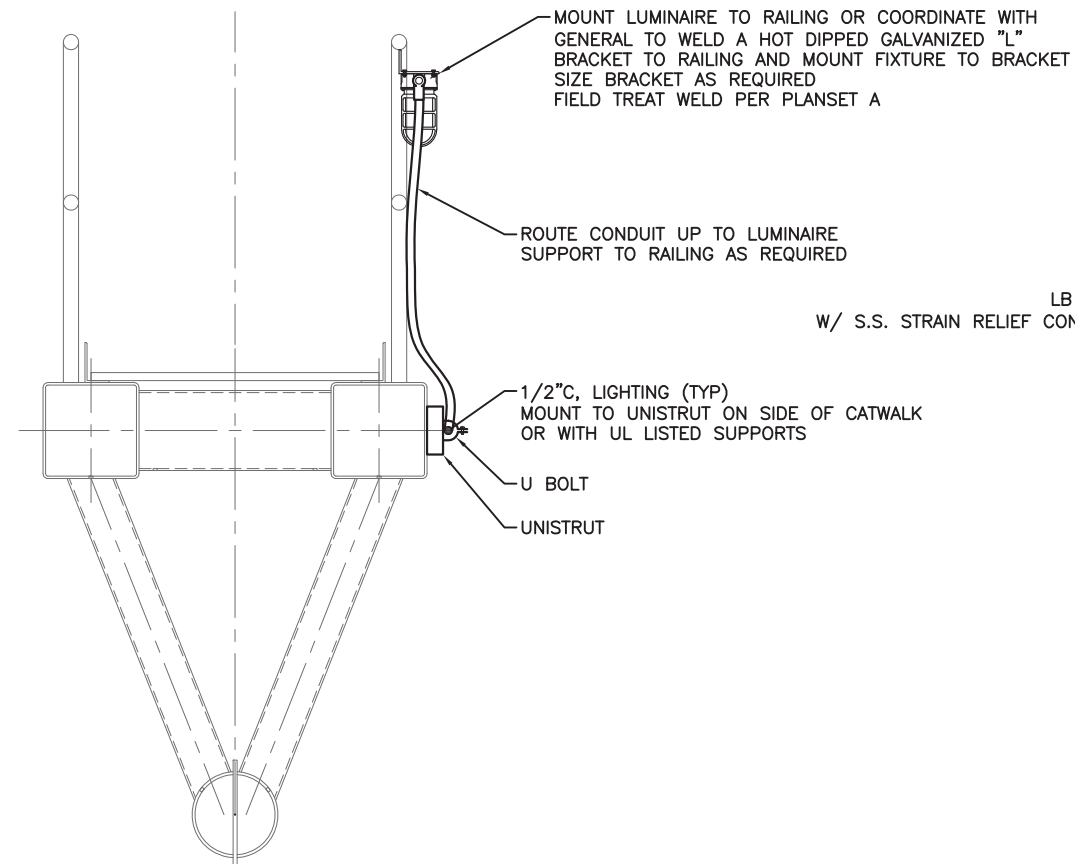


① 95' CATWALK - ELEVATION

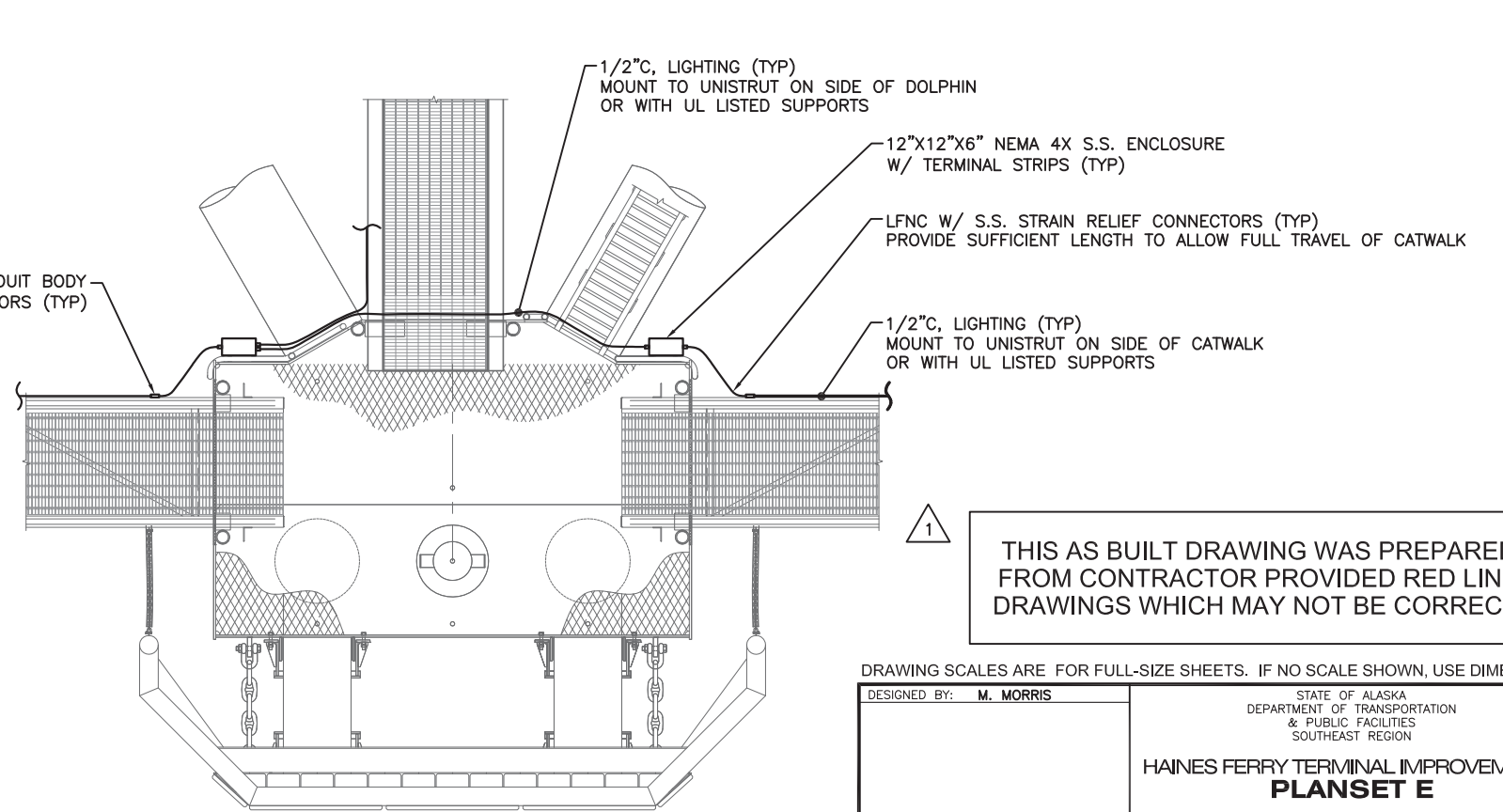
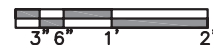


NOTE:

AT CONTRACTORS OPTION OR DUE TO FIELD CONDITIONS, A DIFFERENT METHOD OF CONDUIT INSTALLATION MAY BE USED INCLUDING USE OF CONDUIT BODIES. PROVIDE ENCLOSURES ON DOLPHINS, FLEX CONDUIT BETWEEN DOLPHIN AND CATWALK, AND STAINLESS STEEL STRAIN RELIEF CONNECTORS.



② 95' CATWALK - SECTION



③ W3 DOLPHIN - PLAN VIEW



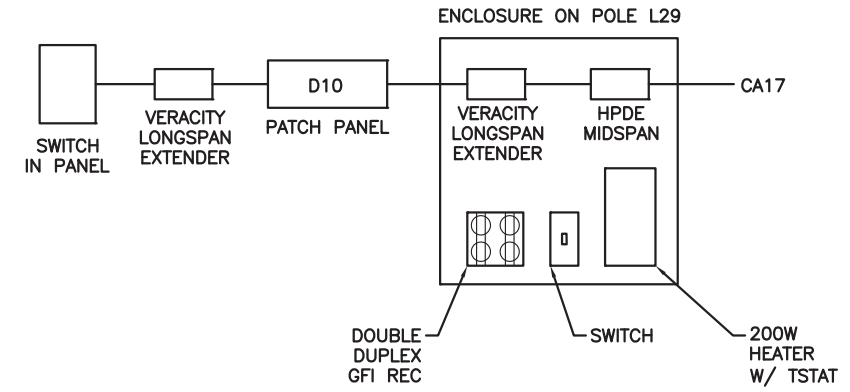
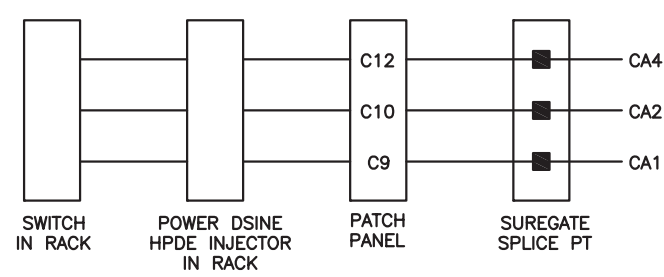
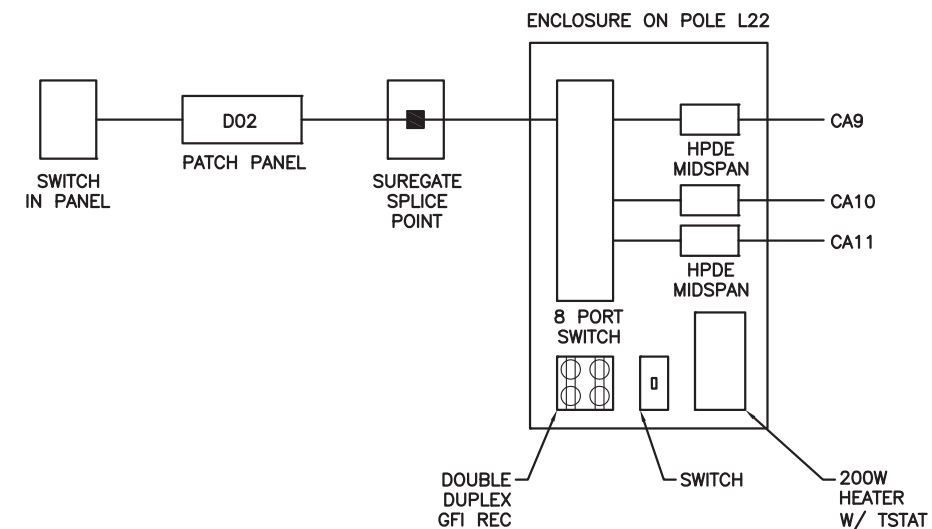
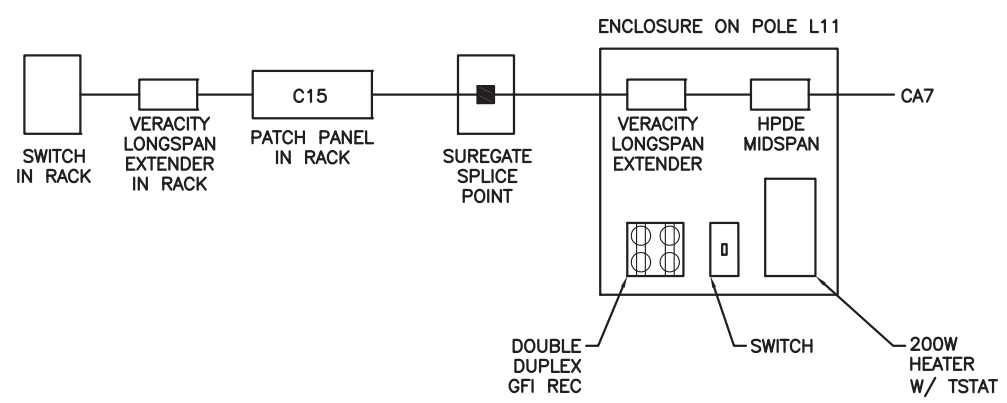
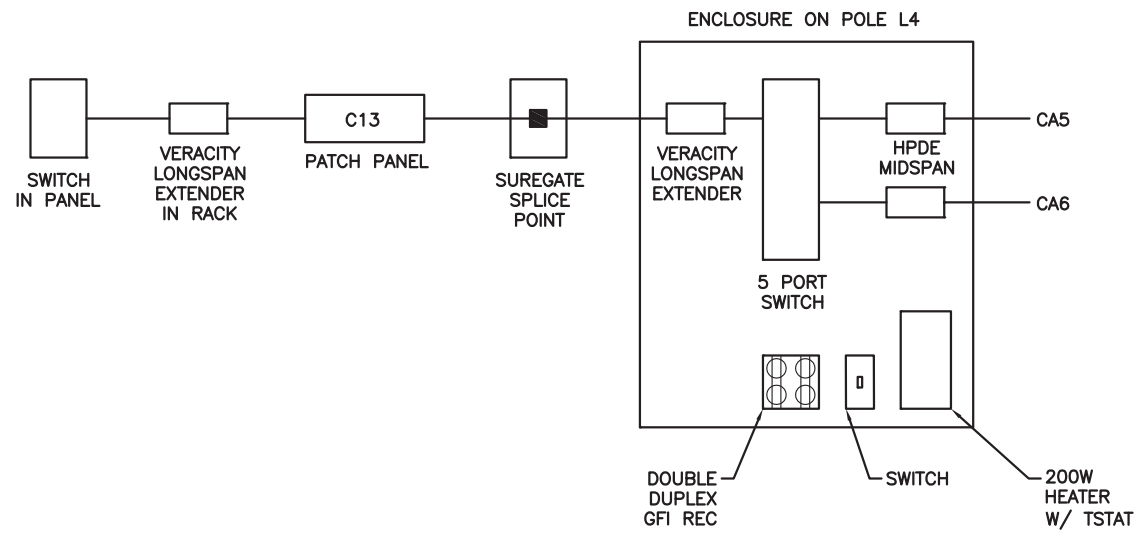
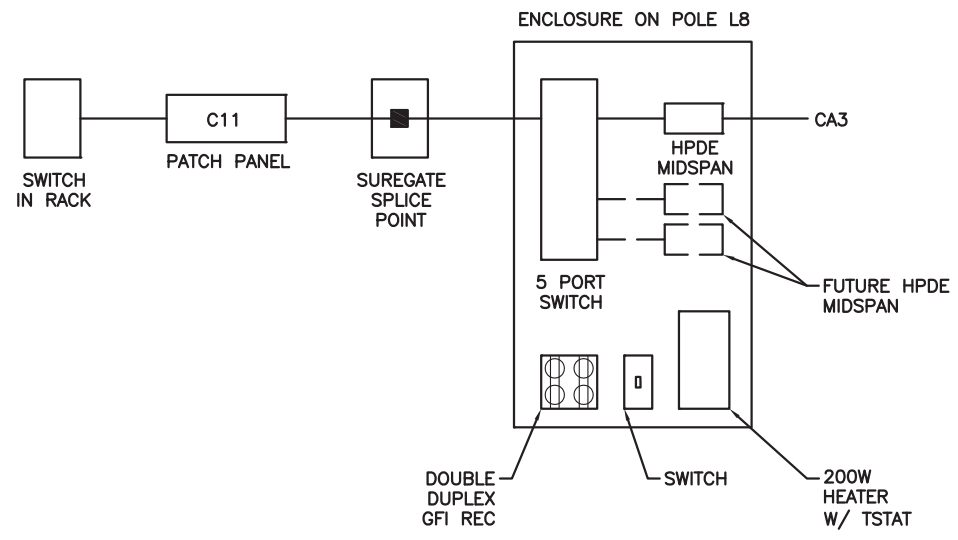
THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>			
DRAWN BY: E. VOGEL		<b>CATWALK DETAILS 2</b>			
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E39 CATWALK DETAILS 2.DWG					
TAB: E38 Wednesday, November 30, 2016 11:24:46 AM LISA SHERRELL					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
1	11-16	AS-BUILT	<b>68433 / 0955014</b>	<b>2013</b>	<b>E38 38</b>

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *K. Kullb* Date 12/13/16



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.  
 PE *K. Kelly* Date 12/13/16

THIS AS BUILT DRAWING WAS PREPARED FROM CONTRACTOR PROVIDED RED LINE DRAWINGS WHICH MAY NOT BE CORRECT.

SHEET NOTE:  
 THIS PAGE IS PROVIDED AS A SUPPLEMENT TO THE CAMERA SCHEMATICS ON SHEET E33.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: M. MORRIS		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
CHECKED BY: M. MORRIS		HAINES FERRY TERMINAL IMPROVEMENTS <b>PLANSET E</b>	
DRAWN BY: E. VOGEL		<b>AS-BUILT CAMERA SUPPLEMENT</b>	
PATH: Y:\101 R&M\68 HAINES FERRY TERMINAL\ARCHIVE\WORKING DRAWINGS OLD\1. WORKING DRAWINGS\E39 CATWALK DETAILS 2.DWG			
TAB: E39 Wednesday, November 30, 2016 11:24:47 AM LISA SHERRELL			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
1	11-16	AS-BUILT	38
68433 / 0955014		2013	E39