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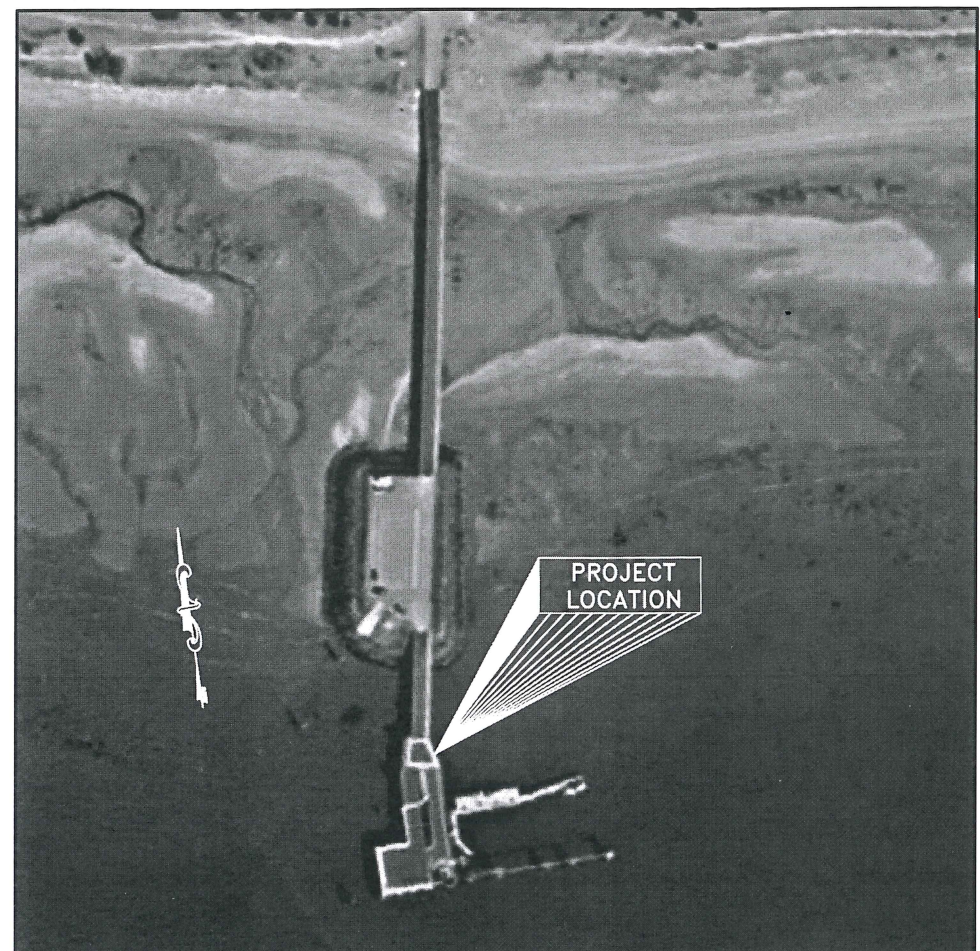
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

PROJECT NO. Z681280000/0003182

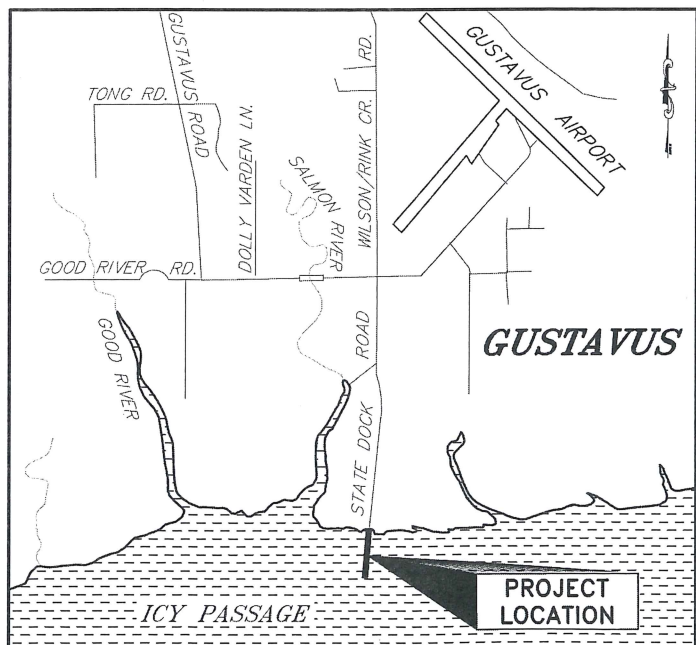
The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.
Jessica Puskala

June 13, 2019

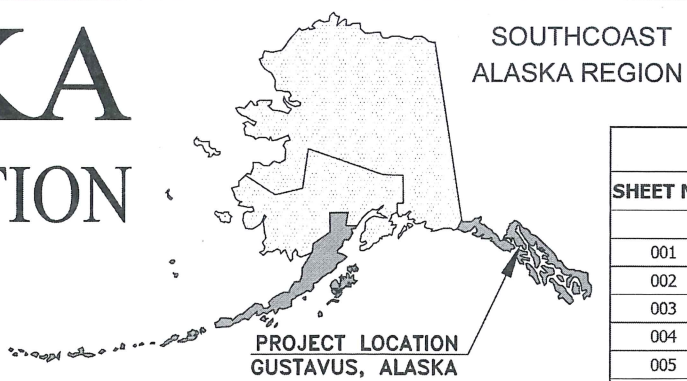


SITE MAP

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
HH
PE 10/01/24



VICINITY MAP



SOUTHCOAST
ALASKA REGION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	001	145

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TRANSFER BRIDGE, ABUTMENT, & LIFT TOWERS	
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SHEET NO.	DESCRIPTION
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307-309	LIFT TOWER - PRECAST CAP BEAMS
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401	STEEL FLOAT MODIFICATIONS
402	SKIFF FLOAT MODIFICATIONS
403	STEEL FLOAT PILE HOOP DETAILS
404-405	STEEL FLOAT MODIFICATIONS - DECK AT GANGWAY LANDING
406	STEEL FLOAT MODIFICATIONS - EXTENSION
407	TRANSITION PLATE DETAILS
408	STEEL FLOAT REFURBISH ITEMS
409	STEEL FLOAT MOORING DETAILS
410	TIMBER FLOAT DETAILS
411	STEEL FLOAT RESTRAINT FRAME
412	WINDSOCK DETAILS
GANGWAY	
501	80' GANGWAY - PLAN & ELEVATION
502	80' GANGWAY - TYPICAL SECTION AND DETAILS
503	80' GANGWAY - DETAILS
504	80' GANGWAY - SLIDE ASSEMBLY DETAILS
ELECTRICAL & HYDRAULICS	
701	ELECTRICAL LEGEND & SHEET INDEX
702-724	ELECTRICAL LAYOUT & CONTROLS
725-728	HYDRAULIC LAYOUT & CONTROLS

TIDAL DATA	
HTL	+20.0'
MHW	+13.7'
MLLW	0.0'
ELW	-5.0'

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2017 EDITION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

APPROVED: *L. Pat Carroll* 3-21-19
REGIONAL PRECONSTRUCTION ENGINEER DATE
L. PAT CARROLL, P.E.

CONCUR: *D. Lance Mearig* 3-21-19
REGIONAL DIRECTOR DATE
D. LANCE MEARIG, P.E.

HH 10/01/2024

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CONSTRUCTION LIMITATIONS AND SEQUENCING NOTES:

- TWO CONSTRUCTION WINDOWS FOR BOTH TERMINAL CLOSURE AND PILE DRIVING ARE PERMITTED IN THE CONTRACT DOCUMENTS: SEPTEMBER 1, 2019 – NOVEMBER 30, 2019 AND MARCH 1, 2020 – MAY 31, 2020. CONTRACTOR SHALL NOTIFY THE DEPARTMENT BY JULY 1, 2019 AS TO WHICH WINDOW THE WORK WILL BE PERFORMED. THE EXISTING FERRY TERMINAL STRUCTURES AND THE ISLAND VEHICLE STAGING AREA SHALL REMAIN FULLY OPERATIONAL UNTIL SUCH TIME THAT THE CONTRACTOR IS PREPARED TO BEGIN ALL WORK. NO DEMOLITION SHALL OCCUR UNLESS NEW MATERIALS ARE EITHER ON SITE OR IN TRANSIT.
- UNAUTHORIZED TERMINAL CLOSURE: FOR EACH OCCURRENCE THAT A SCHEDULED AMHS FERRY VESSEL IS PREVENTED FROM USING THE FACILITY AS A RESULT OF THE CONTRACTOR'S OPERATIONS OUTSIDE OF THE SCHEDULED TERMINAL CLOSURE AND PILE DRIVING PERIOD, A TERMINAL CLOSURE PRICE WITHHOLDING (DEDUCTION IN CONTRACT PAYMENTS) WILL BE ASSESSED UNDER BID ITEM 202.MF02.0000.
- THE EXISTING OUTER DOCK MAY BE IN OCCASIONAL USE DURING THE FERRY TERMINAL CLOSURE PERIODS. CONTRACTOR SHALL ACCOMMODATE ANY FUEL AND FREIGHT NEEDS FOR USE OF THE OUTER DOCK. THOSE USES ARE NOT SCHEDULED. THE CONTRACTOR SHALL COORDINATE WITH LOCAL CARRIERS SUCH AS PETRO MARINE SERVICES AND FRONTIER FREIGHT ON AN AS NEEDED BASIS DURING CONSTRUCTION.
- CONTRACTOR SHALL BE AWARE OF POTENTIAL USE OF THE ISLAND BARGE LANDING RAMP WHICH MAY BE USED BY OTHERS FOR A PLANNED AIRPORT RECONSTRUCTION PROJECT (AIRPORT PROJECT YET TO BE ADVERTISED). BARGE LANDING RAMP AND APPROACH TRESTLE TO SHORE MAY BE IN USE FOR GRAVEL HAUL OPERATIONS FROM DECEMBER, 2019 THROUGH JULY, 2020. DATES AND FREQUENCY OF USE IS NOT KNOWN AT THIS TIME. BARGE RAMP ACCESS FROM BOTH MARINE AND UPLAND SIDES SHALL NOT BE BLOCKED.
- AS NOTED IN THE PLANS, DESIGNATED MATERIALS TO BE SALVAGED FOR DEPARTMENT USE SHALL BE STORED AT THE ISLAND STAGING AREA. THE ITEMS SHALL BE STORED IN THE CONFIGURATION SHOWN IN THE "SALVAGED ITEMS STORAGE AREA-SITE PLAN". CONTRACTOR SHALL ENSURE THE MATERIALS ARE STORED IN A WAY TO ALLOW GRAVEL OPERATIONS AT THE BARGE LANDING RAMP AND TO ENSURE OTHERS HAVE ACCESS TO RETRIEVE THE STORED MATERIALS WHEN NEEDED.
- CONTRACTOR MAY UTILIZE THE OUTER DOCK AND THE EXISTING MOORING STRUCTURES FOR MOORING OF BARGES AND EQUIPMENT BUT SHALL BE AWARE OF THE SIGNIFICANT WEATHER EXPOSURE AT THIS SITE AND TAKE ALL PRUDENT PRECAUTIONS TO AVOID DAMAGE TO EXISTING STRUCTURES. EQUIPMENT MUST BE PREPARED TO DEPART THE SITE DURING STORMS. ANY DAMAGE AS A RESULT OF THE CONTRACTORS USE OF EXISTING STRUCTURES WILL BE FULLY REPAIRED OR RESTORED AT NO COST TO THE DEPARTMENT.
- STEEL MOORING FLOAT SHALL BE RE-ANCHORED AT THE PLEASANT ISLAND LOCATION IF THE WORK IS PERFORMED DURING THE FALL TERMINAL CLOSURE PERIOD. MOORING FLOAT WILL REMAIN AT THE HARBOR SITE IF THE WORK IS DONE DURING THE SPRING PERIOD.

GENERAL NOTES

DESIGN SPECIFICATIONS

PER CONTRACT DOCUMENTS FOR PROJECT NO. Z681280000

DESIGN STANDARDS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH ED. AISC STEEL CONSTRUCTION MANUAL 14TH ED. LRFD ASCE/SEI STANDARD 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2010 AWS D1.1 & D1.5 STRUCTURAL & BRIDGE WELDING CODES, CURRENT EDITIONS.

DESIGN LOADS: APPROACH DOCK ADDITION: SEE SHEET 201
 TRANSFER BRIDGE AND APRON: SEE SHEET 301
 GANGWAY: SEE SHEET 501
 STEEL FLOAT RESTRAINT STRUCTURES WAVE LOAD:
 ASCE 7-10 50-YEAR WIND SPEED: 73.1 MPH
 12FT MAX DESIGN WAVE HEIGHT (1.27Hs)
 127FT WAVE LENGTH
 T=5SEC PEAK WAVE PERIOD

DESIGN VESSELS: ALASKA MARINE HIGHWAY SYSTEM (AMHS) – M/V LECONTE CLASS & M/V FAIRWEATHER CLASS

MATERIALS

STEEL SHAPE & PLATES: "BUY AMERICA" PROVISIONS APPLY
 PLATES: ASTM A709 GR 50
 HSS – ASTM A500 GR B
 HP – ASTM A709 GR 50
 PIPE – ASTM A53 GR B
 STAINLESS STEEL – ASTM A276 TYPE 316
 W – ASTM A709 GR 50
 ROUND BAR – ASTM A36
 MISC SHAPES – ASTM A36, UON

PILING: STEEL – API 5L X52, OR ASTM A709 GR 50
 GRATING: STEEL WELDED-BAR TYPE, SERRATED TOP, THICKNESS & BAR SPACING AS NOTED ON PLANS.
 PLASTIC: ULTRA HIGH MOLECULAR WEIGHT (UHMW) POLYETHYLENE PLASTIC PER ASTM D4020
 FASTENERS: PER SPECS
 CONCRETE: CLASS A OR CLASS P AS NOTED ON PLANS
 STEEL REINFORCEMENT: ASTM A706, GR 60 GALVANIZED PER ASTM A767
 WELDED OPEN-GRID BRIDGE DECKING: STEEL DIAGONAL OPEN GRID DECK W/STANDARD "RIBBED" MAIN BARS SPACED AT 7.5 INCHES, 5 3/16" TALL W/SERRATED TOP SURFACE, GALVANIZED. COORDINATE MAIN BAR LAYOUT WITH MOUNTING HOLE LOCATIONS ON THE STEEL APPROACH GIRDERS TO ENSURE PROPER BOLT ALIGNMENT.

PROTECTIVE COATINGS

ALL STEEL, PILING, & WELDMENTS: HOT DIP 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
 DRIVING SHOES REQUIRED ON ALL PILES: INSIDE FLANGE OPEN END CUTTING SHOE.

WELDS

ALL WELDING SHALL BE PERFORMED BY CERTIFIED PERSONS IN ACCORDANCE WITH AWS D1.1 AND D1.5 AS APPLICABLE. MEMBERS DESIGNATED AS FRACTURE-CRITICAL MEMBERS (FCM) SHALL BE FABRICATED AND INSPECTED IN ACCORDANCE AWS D1.5, CLAUSE 12, AASHTO/AWS FRACTURE CONTROL PLAN FOR NONREDUNDANT MEMBERS.

CHARPY V-NOTCH TESTING REQUIREMENTS

DESIGN DRAWINGS IDENTIFY THE PRIMARY LOAD CARRYING MEMBERS SUBJECT TO TENSION. ALL STRUCTURAL STEEL SO DESIGNATED ON THE PLANS SHALL RECEIVE CHARPY V-NOTCH TESTING FOR TEMPERATURE ZONE 2 IN ACCORDANCE WITH ASTM A709 AS NOTED BELOW:

- TENSION COMPONENTS OF REDUNDANT MEMBERS, DESIGNATED "T" ON THE PLANS, SHALL BE TESTED IN ACCORDANCE WITH TABLE 8.
- TENSION COMPONENTS OF FRACTURE CRITICAL MEMBERS, DESIGNATED "F" ON THE PLANS, SHALL BE TESTED IN ACCORDANCE WITH TABLE 9.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS


GENERAL NOTES

HH 10/01/2024


FILE: G:\us\68128\WF\PLANSET\002-003 - GENERAL NOTES & QUANTITIES.dwg DATE: 3/18/2019 13:39 LAYOUT: 003 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	003	145


REFERENCE LEGEND




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
SECTION OR ELEVATION VIEW




DETAIL CALLOUT



DRAWING TITLE/
SUBTITLE **VIEW NAME**



DETAIL TAG



ADDITIONAL SHEET CALLOUT

IN VIEW TITLE:

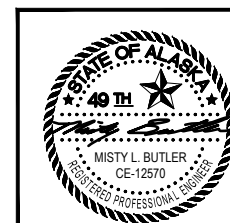
- * SHEET NUMBER WHERE THE CALLOUT CUT IS MADE OR DASH MARK WHEN ON THE SAME SHEET
- ** SHEET NUMBER WHERE DETAIL IS LOCATED WHEN ON A DIFFERENT SHEET OR DASH MARK WHEN ON THE SAME SHEET

ABBREVIATIONS

AASHTO	AMERICAN ASSOC OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABUT	ABUTMENT
ACZA	AMMONIACAL COPPER ZINC ARSENATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALUM	ALUMINUM
APF	ASSOCIATED PILE AND FITTING
API	AMERICAN PETROLEUM INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ASSY	ASSEMBLY
ATS	ALASKA TIDELAND SURVEY
AWS	AMERICAN WELDING SOCIETY
BOP	BEGINNING OF PROJECT
BRG	BEARING
BTM	BOTTOM
BTWN	BETWEEN
C/C	CENTER TO CENTER
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CNTR	CENTER
CONC	CONCRETE
CS	CONTINGENT SUM
CTSK	COUNTERSINK
CU	CUBIC
CVN	CHARPY V-NOTCH
DBL	DOUBLE
DL	DEAD LOAD
DS	DISCONNECT SWITCH
EA	EACH
ECON HD	ECONOMY HEAD
ELEV	ELEVATION
EQ	EQUAL
EST	ESTIMATED
FNMC-A	LIQUIDTIGHT FLEXIBLE NON METALLIC CONDUIT, TYPE A
FB	FLAT BAR
FS	FAR SIDE
FT	FOOT
FVF	FAST VEHICLE FERRY
GA	GAUGE
GALV	GALVANIZED
GR	GRADE
GRMC	GALVANIZED STEEL RIGID METAL CONDUIT
HDG	HOT DIP GALVANIZE
HDPE	HIGH DENSITY POLYETHYLENE PLASTIC
HRZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
J-BOX	JUNCTION BOX
LB FITTING	TYPE LB CONDUIT OUTLET BODY
LF	LINEAR FEET
LS	LUMP SUM
MI	MALLEABLE IRON
M/V	MARINE VESSEL
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NOS	NUMBERS
NS	NON-SHRINKING, OR NEAR SIDE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PL	PLATE
PP	PIPE PILE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS
REQ'D	REQUIRED
SDR	STANDARD DIMENSION RATIO
SEI	STRUCTURAL ENGINEERING INSTITUTE
SS	STAINLESS STEEL
STD	STANDARD
SYMM	SYMMETRIC
T FITTING	TYPE T CONDUIT OUTLET BODY
T&B	TOP AND BOTTOM
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PLASTIC
UON	UNLESS OTHERWISE NOTED
WP	WORK POINT
XS	EXTRA STRONG (SCHEDULE 80 PIPE)
XXS	DOUBLE EXTRA STRONG (SCHEDULE 120 PIPE)

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202.MF01.0001	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
202.MF02.0000	TERMINAL CLOSURE PRICE WITHHOLDING	CS	ALL REQ'D
501.0001.0000	CLASS A CONCRETE	LS	ALL REQ'D
501.0007.0000	PRECAST CONCRETE MEMBER - ABUTMENT CAP BEAM	EACH	1
501.0007.0000	PRECAST CONCRETE MEMBER - TOWER CAP BEAM	EACH	2
501.2010.0000	CONCRETE CLASS P	LS	ALL REQ'D
504.MF10.0001	APPROACH - 3,560 S.F. ADDITION	LS	ALL REQ'D
504.MF20.0001	TRANSFER BRIDGE - ABUTMENT FRAME	LS	ALL REQ'D
504.MF20.0002	TRANSFER BRIDGE - APRON MODIFICATIONS	LS	ALL REQ'D
504.MF20.0003	TRANSFER BRIDGE - DECK & RAILING MODIFICATIONS	LS	ALL REQ'D
504.MF20.0004	TRANSFER BRIDGE - LIFT BEAM	LS	ALL REQ'D
504.MF20.0005	TRANSFER BRIDGE - LIFT TOWER LANDINGS, STAIRWAY, DOCK & GUIDES	LS	ALL REQ'D
504.MF20.0006	TRANSFER BRIDGE - REFURBISH AND RE-INSTALL	LS	ALL REQ'D
504.MF20.0007	TRANSFER BRIDGE - SECURITY FENCE & GATES	LS	ALL REQ'D
504.MF40.0001	FLOAT - REFURBISH AND RELOCATE	LS	ALL REQ'D
504.MF40.0021	FLOAT - PILE COLLARS	EACH	6
504.MF40.0022	FLOAT - RESTRAINT STRUCTURE FRAMES	EACH	3
504.MF60.0001	GANGWAY - 7'X80' ALUMINUM	LS	ALL REQ'D
504.MF60.0021	GANGWAY - 3'X48' STEEL	EACH	2
505.MF01.1604	PILE, FURNISHED 16" X 0.500"	LF	80
505.MF01.2404	PILE, FURNISHED 24" X 0.500"	LF	2600
505.MF01.3004	PILE, FURNISHED 30" X 0.500"	LF	710
505.MF01.3005	PILE, FURNISHED 30" X 0.625"	LF	2710
505.MF02.1604	PILE, DRIVEN 16" X 0.500"	EACH	4
505.MF02.2404	PILE, DRIVEN 24" X 0.500"	EACH	21
505.MF02.3004	PILE, DRIVEN 30" X 0.500"	EACH	6
505.MF02.3005	PILE, DRIVEN 30" X 0.625"	EACH	14
505.MF30.0021	FIELD SPLICE 16" x 0.500" PIPE PILE	EACH	2
505.MF40.0021	WIND SOCK	EACH	1
506.MF40.0001	FLOAT - MODIFY & RELOCATE (4) 20'X25' TIMBER SKIFF FLOATS	LS	ALL REQ'D
506.MF40.0002	FLOAT - RELOCATE (2) 12'X50' TIMBER FLOAT SECTIONS	LS	ALL REQ'D
514.MF01.0021	CATHODIC PROTECTION - 150 LB ALUMINUM PILE ANODE	EACH	45
615.MF01.0001	STANDARD SIGN	LS	ALL REQ'D
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
642.MF01.0001	CONSTRUCTION SURVEYING	LS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.0006.0000	VEHICLE & SKIFF	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 1 TRAINEE / APPRENTICE	LH	500
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
654.MF01.0001	MARINE MAMMAL MONITORING	LS	ALL REQ'D
654.MF20.0001	SOUND SOURCE VERIFICATION	LS	ALL REQ'D
656.MF01.0001	HYDRAULIC SYSTEM	LS	ALL REQ'D
662.MF01.0001	ELECTRICAL SYSTEM POWER AND LIGHTING	LS	ALL REQ'D
665.MF01.0001	TRANSFER BRIDGE LIFT SYSTEM	LS	ALL REQ'D
695.MF01.0021	BUILDING - FRP TOWER SHELTER	EACH	2



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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

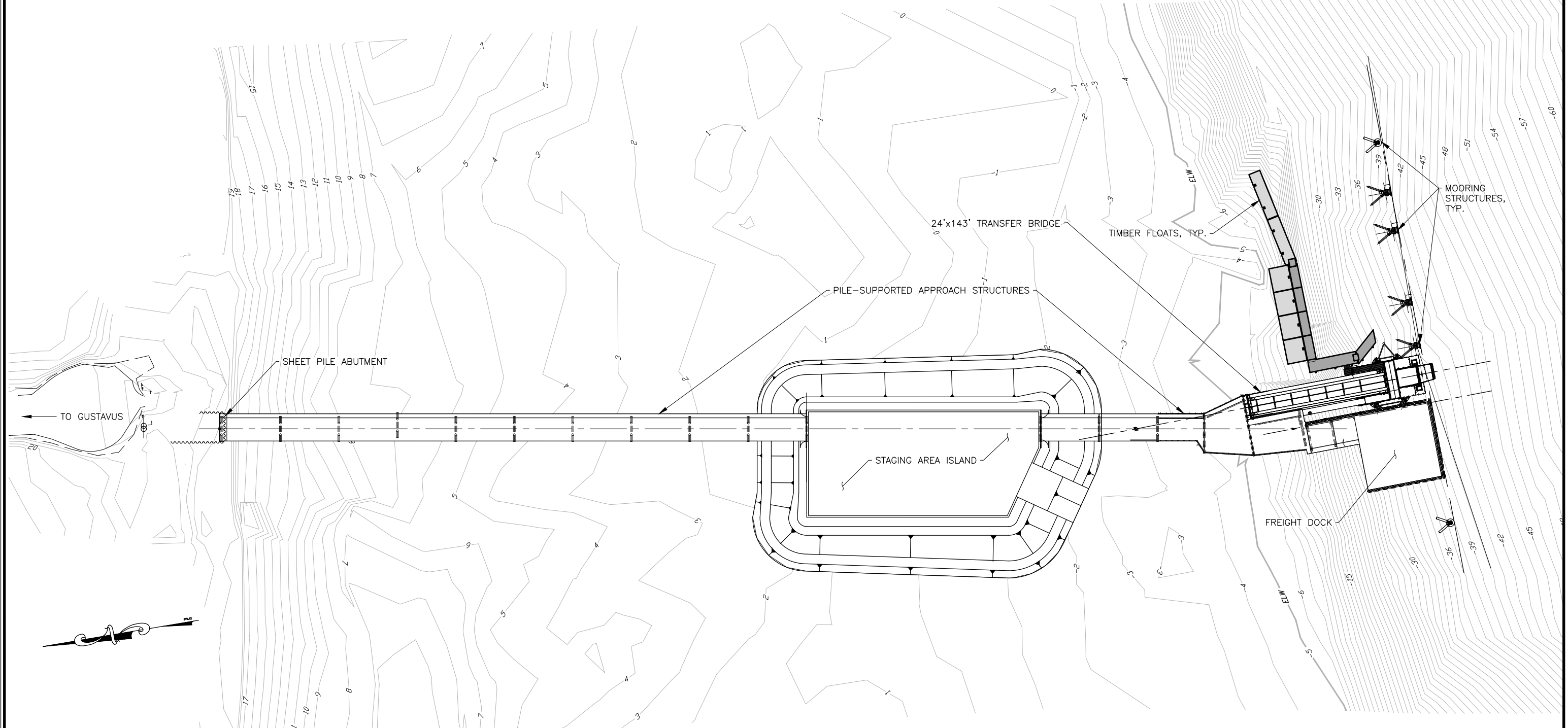
LEGEND &
ESTIMATE OF QUANTITIES

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

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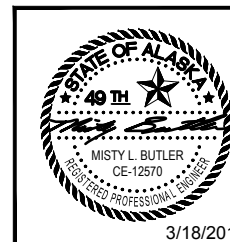
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				Z681280000/0003182	2019	004	145



EXISTING SITE PLAN



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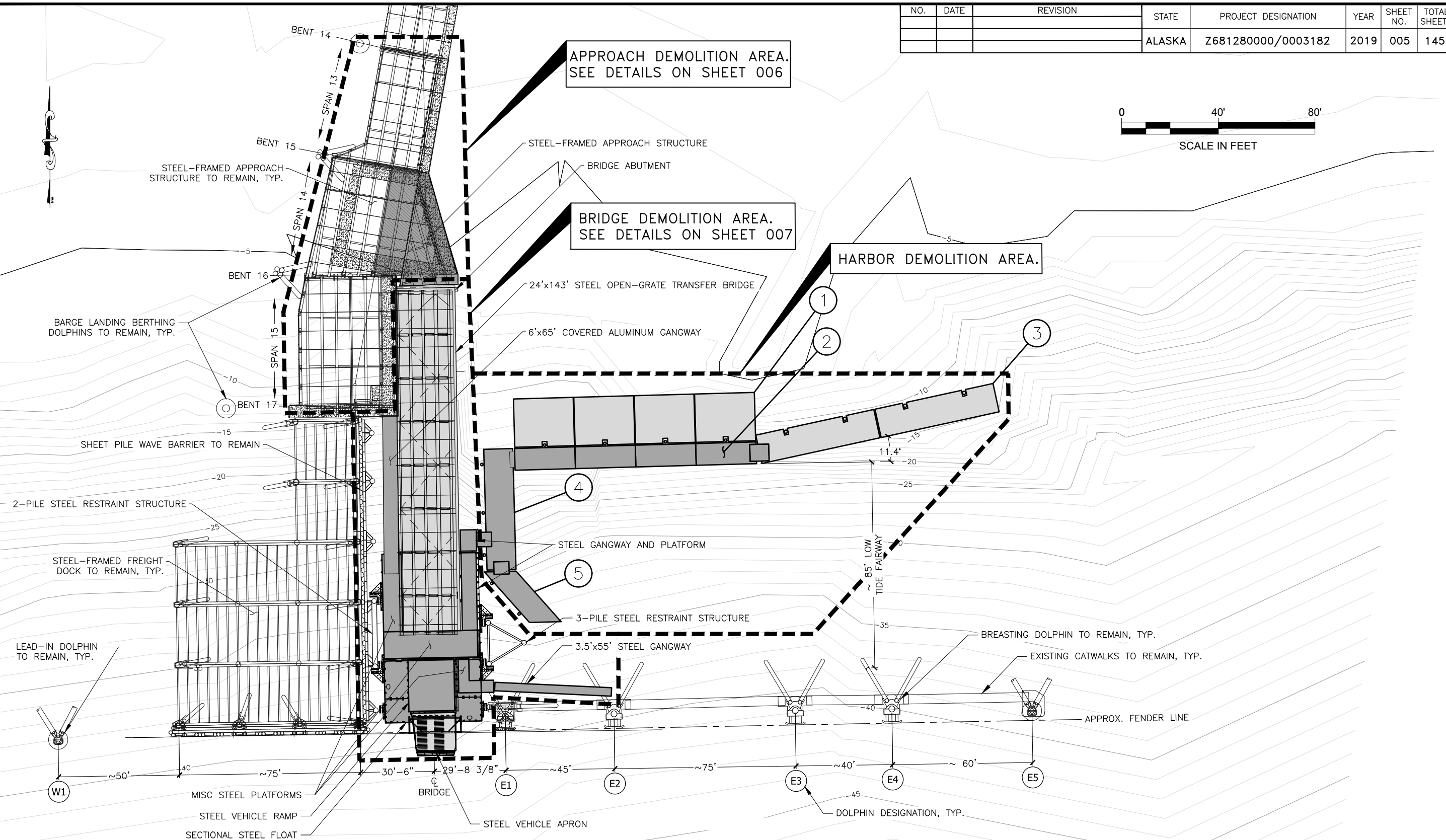
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EXISTING SITE PLAN

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FILE: Q:\us\68128\WF\PLANSET\005 - DEMOLITION PLAN.dwg
 DATE: 3/18/2019 13:42
 LAYOUT: 005
 DESIGNED: STAFF
 CHECKED: STAFF
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APPROACH DEMOLITION AREA.
SEE DETAILS ON SHEET 006

BRIDGE DEMOLITION AREA.
SEE DETAILS ON SHEET 007

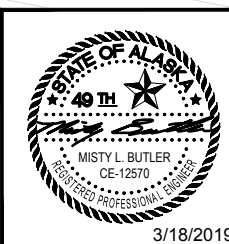
HARBOR DEMOLITION AREA.

EXISTING SITE PLAN

ITEM	DESCRIPTION	WORKING DWG REFERENCE	PLANSET REFERENCE	REMOVE & DISPOSE	REMOVE & REINSTALL	REMOVE & SALVAGE
1	SKIFF FLOAT: (4) 25' x 20' TIMBER SKIFF FLOATS	69909/SHT 12	401		X	
2	TIMBER SECTIONAL FLOAT: (4) 9' x 25' TIMBER FLOATS & (4) 12 3/4"Ø STEEL PIPE PILES	K-32460/SHT 2				X
3	TIMBER FLOAT: (2) 12' x 50' TIMBER FLOATS & (4) 16"Ø STEEL PIPE PILES	69909/SHT 09	410		X	
4	TIMBER LOG FLOAT: (1) 12' x 50' TIMBER LOG FLOAT & (3) 12 3/4"Ø STEEL PIPE PILES	K-31402/SHT 2				X
5	TIMBER LOG FLOAT: (1) 10' x 28' TIMBER LOG FLOAT & (2) 12 3/4"Ø STEEL PIPE PILES	69909/SHT 07				X

NOTE: REFER TO THE PROJECT SPECIFICATIONS FOR INFORMATION REGARDING REMOVAL AND DISPOSITION OF COMPONENTS.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



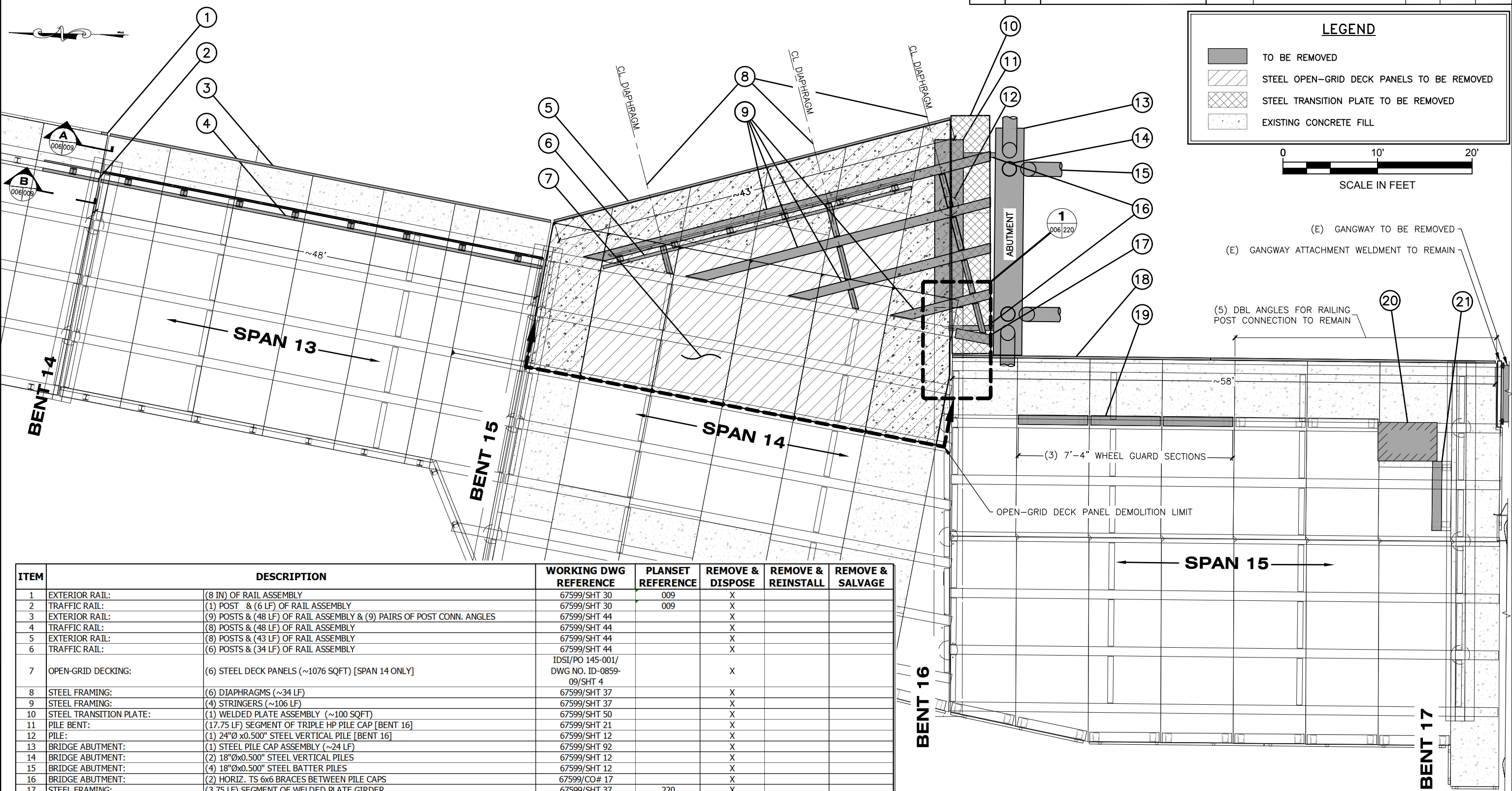
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

DEMOLITION PLAN
 HH 10/01/2024

FILE: q:\us\68128\WF\PLANSET\006 - DEMOLITION AREA 1 - APPROACH STRUCTURE.dwg DATE: 3/18/2019 13:41 LAYOUT: 006 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	006	145

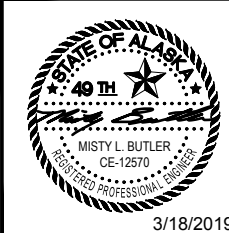


ITEM	DESCRIPTION	WORKING DWG REFERENCE	PLANSET REFERENCE	REMOVE & DISPOSE	REMOVE & REINSTALL	REMOVE & SALVAGE
1	EXTERIOR RAIL: (8 IN) OF RAIL ASSEMBLY	67599/SHT 30	009	X		
2	TRAFFIC RAIL: (1) POST & (6 LF) OF RAIL ASSEMBLY	67599/SHT 30	009	X		
3	EXTERIOR RAIL: (9) POSTS & (48 LF) OF RAIL ASSEMBLY & (9) PAIRS OF POST CONN. ANGLES	67599/SHT 44		X		
4	TRAFFIC RAIL: (8) POSTS & (48 LF) OF RAIL ASSEMBLY	67599/SHT 44		X		
5	EXTERIOR RAIL: (8) POSTS & (43 LF) OF RAIL ASSEMBLY	67599/SHT 44		X		
6	TRAFFIC RAIL: (6) POSTS & (34 LF) OF RAIL ASSEMBLY	67599/SHT 44		X		
7	OPEN-GRID DECKING: (6) STEEL DECK PANELS (~1076 SQFT) [SPAN 14 ONLY]	IDSI/PO 145-001/ DWG NO. ID-0859-09/SHT 4		X		
8	STEEL FRAMING: (6) DIAPHRAGMS (~34 LF)	67599/SHT 37		X		
9	STEEL FRAMING: (4) STRINGERS (~106 LF)	67599/SHT 37		X		
10	STEEL TRANSITION PLATE: (1) WELDED PLATE ASSEMBLY (~100 SQFT)	67599/SHT 50		X		
11	PILE BENT: (17.75 LF) SEGMENT OF TRIPLE HP PILE CAP [BENT 16]	67599/SHT 21		X		
12	PILE: (1) 24"Ø x 0.500" STEEL VERTICAL PILE [BENT 16]	67599/SHT 12		X		
13	BRIDGE ABUTMENT: (1) STEEL PILE CAP ASSEMBLY (~24 LF)	67599/SHT 92		X		
14	BRIDGE ABUTMENT: (2) 18"Ø x 0.500" STEEL VERTICAL PILES	67599/SHT 12		X		
15	BRIDGE ABUTMENT: (4) 18"Ø x 0.500" STEEL BATTER PILES	67599/SHT 12		X		
16	BRIDGE ABUTMENT: (2) HORIZ. TS 6x6 BRACES BETWEEN PILE CAPS	67599/CO# 17		X		
17	STEEL FRAMING: (3.75 LF) SEGMENT OF WELDED PLATE GIRDER	67599/SHT 37	220	X		
18	EXTERIOR RAIL: (11) POSTS & (58 LF) OF RAIL ASSEMBLY & (6) PAIRS OF POST CONN. ANGLES	67599/SHT 45		X		
19	WHEEL GUARD: (3) HSS 12x10 GUARD ELEMENTS & POSTS (7.33 LF EA)	67599/SHT 45		X		
20	PURSER'S SHELTER: (1) 4'x6' STRUCTURE		201		X	
21	WHEEL GUARD: (1) HSS 12x10 GUARD ELEMENT & POSTS (7.33 LF)	67599/SHT 45	201		X	

NOTES:

- REFER TO THE PROJECT SPECIFICATIONS FOR INFORMATION REGARDING REMOVAL AND DISPOSITION OF COMPONENTS.
- IDSI IS THE OPEN-GRID STEEL DECK FABRICATOR, SEE SHOP DRAWINGS FOR PROJECT 67599.
- CO# = CHANGE ORDER NUMBER

APPROACH STRUCTURE DEMOLITION PLAN



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH DEMOLITION AREA

HH 10/01/2024

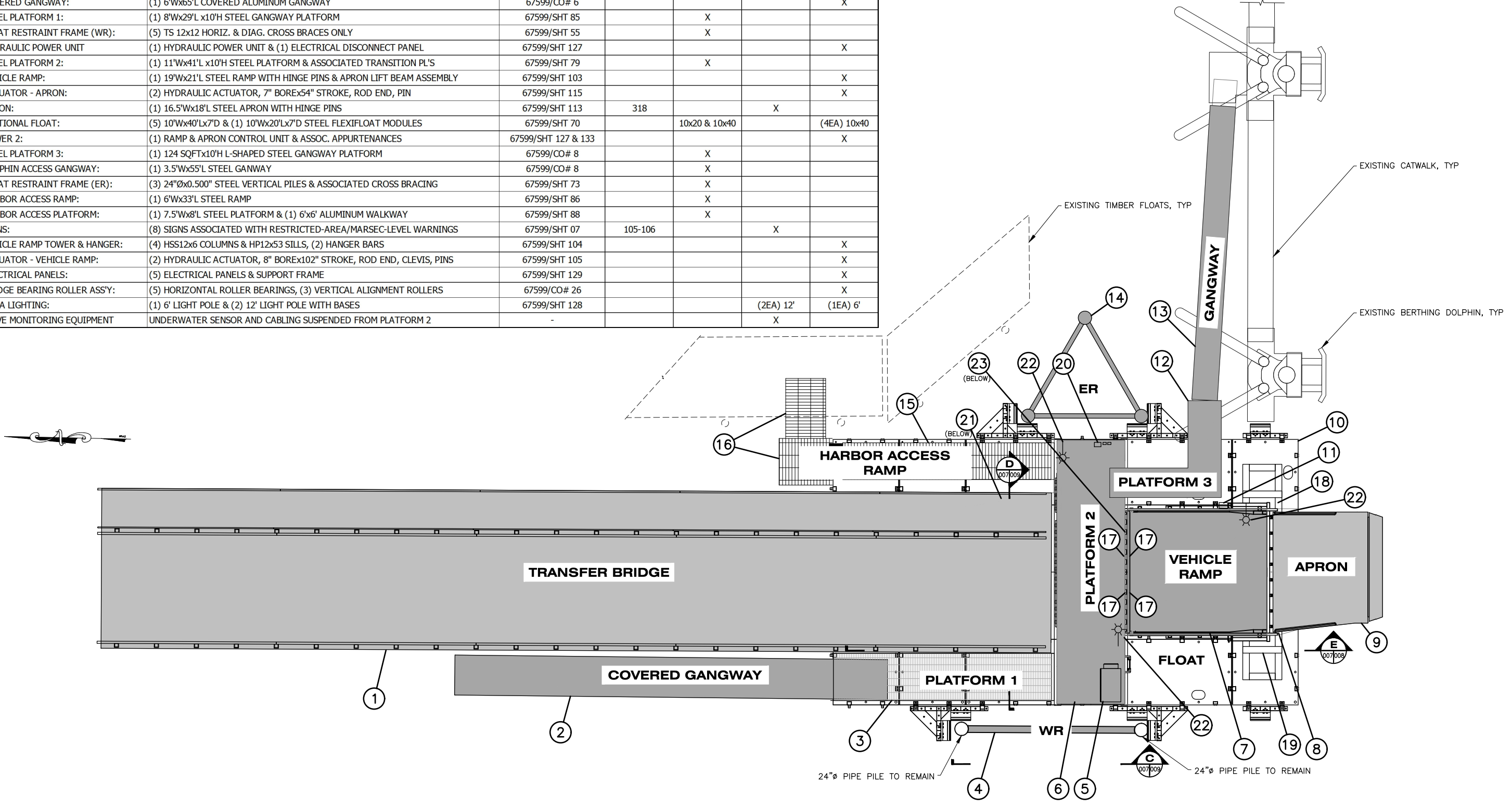
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

FILE: G:\us\68128\WF\PLANSET\007 - DEMOLITION AREA 2 - TRANSFER BRIDGE.dwg
 DATE: 3/18/2019 13:41 LAYOUT: 007
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

ITEM	DESCRIPTION	WORKING DWG REFERENCE	PLANSET REFERENCE	REMOVE & DISPOSE	REMOVE & REINSTALL	REMOVE & SALVAGE
1	TRANSFER BRIDGE: (1) 24'Wx143'L STEEL BRIDGE	67599/SHT 91	301-302		X	
2	COVERED GANGWAY: (1) 6'Wx65'L COVERED ALUMINUM GANGWAY	67599/CO# 6				X
3	STEEL PLATFORM 1: (1) 8'Wx29'L x10'H STEEL GANGWAY PLATFORM	67599/SHT 85		X		
4	FLOAT RESTRAINT FRAME (WR): (5) TS 12x12 HORIZ. & DIAG. CROSS BRACES ONLY	67599/SHT 55		X		
5	HYDRAULIC POWER UNIT (1) HYDRAULIC POWER UNIT & (1) ELECTRICAL DISCONNECT PANEL	67599/SHT 127				X
6	STEEL PLATFORM 2: (1) 11'Wx41'L x10'H STEEL PLATFORM & ASSOCIATED TRANSITION PL'S	67599/SHT 79		X		
7	VEHICLE RAMP: (1) 19'Wx21'L STEEL RAMP WITH HINGE PINS & APRON LIFT BEAM ASSEMBLY	67599/SHT 103				X
8	ACTUATOR - APRON: (2) HYDRAULIC ACTUATOR, 7" BOREx54" STROKE, ROD END, PIN	67599/SHT 115				X
9	APRON: (1) 16.5'Wx18'L STEEL APRON WITH HINGE PINS	67599/SHT 113	318		X	
10	SECTIONAL FLOAT: (5) 10'Wx40'Lx7'D & (1) 10'Wx20'Lx7'D STEEL FLEXIFLOAT MODULES	67599/SHT 70		10x20 & 10x40		(4EA) 10x40
11	POWER 2: (1) RAMP & APRON CONTROL UNIT & ASSOC. APPURTENANCES	67599/SHT 127 & 133				X
12	STEEL PLATFORM 3: (1) 124 SQFTx10'H L-SHAPED STEEL GANGWAY PLATFORM	67599/CO# 8		X		
13	DOLPHIN ACCESS GANGWAY: (1) 3.5'Wx55'L STEEL GANWAY	67599/CO# 8		X		
14	FLOAT RESTRAINT FRAME (ER): (3) 24"Øx0.500" STEEL VERTICAL PILES & ASSOCIATED CROSS BRACING	67599/SHT 73		X		
15	HARBOR ACCESS RAMP: (1) 6'Wx33'L STEEL RAMP	67599/SHT 86		X		
16	HARBOR ACCESS PLATFORM: (1) 7.5'Wx8'L STEEL PLATFORM & (1) 6'x6' ALUMINUM WALKWAY	67599/SHT 88		X		
17	SIGNS: (8) SIGNS ASSOCIATED WITH RESTRICTED-AREA/MARSEC-LEVEL WARNINGS	67599/SHT 07	105-106		X	
18	VEHICLE RAMP TOWER & HANGER: (4) HSS12x6 COLUMNS & HP12x53 SILLS, (2) HANGER BARS	67599/SHT 104				X
19	ACTUATOR - VEHICLE RAMP: (2) HYDRAULIC ACTUATOR, 8" BOREx102" STROKE, ROD END, CLEVIS, PINS	67599/SHT 105				X
20	ELECTRICAL PANELS: (5) ELECTRICAL PANELS & SUPPORT FRAME	67599/SHT 129				X
21	BRIDGE BEARING ROLLER ASS'Y: (5) HORIZONTAL ROLLER BEARINGS, (3) VERTICAL ALIGNMENT ROLLERS	67599/CO# 26				X
22	AREA LIGHTING: (1) 6' LIGHT POLE & (2) 12' LIGHT POLE WITH BASES	67599/SHT 128			(2EA) 12'	(1EA) 6'
23	WAVE MONITORING EQUIPMENT UNDERWATER SENSOR AND CABLING SUSPENDED FROM PLATFORM 2	-			X	

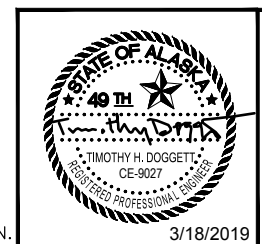
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	007	145



TRANSITION BRIDGE DEMOLITION PLAN



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

TRANSFER BRIDGE
DEMOLITION AREA

HH 10/01/2024

FILE: G:\us\68128\WF\PLANSET\008-009 - DEMOLITION DETAILS.dwg
 DATE: 3/18/2019 13:43
 LAYOUT: 008
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

SALVAGED COMPONENTS:

THE COMPONENTS LISTED AS "REMOVE & SALVAGE" WILL BE DISASSEMBLED AND STOCKPILED ONSITE FOR LATER USE BY THE DEPARTMENT. ALL COMPONENTS SHALL BE CAREFULLY DISASSEMBLED AND THEIR FUNCTIONALITY PRESERVED. COMPONENTS SHALL BE REMOVED, TRANSPORTED AND STORED IN A MANNER THAT THEY CAN BE READILY REASSEMBLED WITHOUT RECONSTRUCTION OR REPAIR. SUB-COMPONENTS SHALL BE PIECE MARKED PRIOR TO DISASSEMBLY TO AID IN REASSEMBLY.

THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN FOR REVIEW PRIOR TO THE START OF DISASSEMBLY. DEMOLITION WITH TORCHES OR BY CUTTING IS NOT PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER, UNLESS OTHERWISE NOTED.

ALL COMPONENTS SHALL BE STORED ABOVE GRADE IN THE DESIGNATED AREA OF THE TERMINAL STAGING AREA AS SHOWN ON STORAGE AREA SITE PLAN (FOLLOWING SHEET). SMALLER COMPONENTS SHALL BE PALLETIZED AND LARGER MEMBERS PLACED ON CRIBBING. COMPONENTS SHALL BE LIFTED, MOVED AND STORED SUCH THAT HINGES, HOSES, TUBING, CONDUITS, AND OTHER ATTACHMENTS ARE NOT DAMAGED.

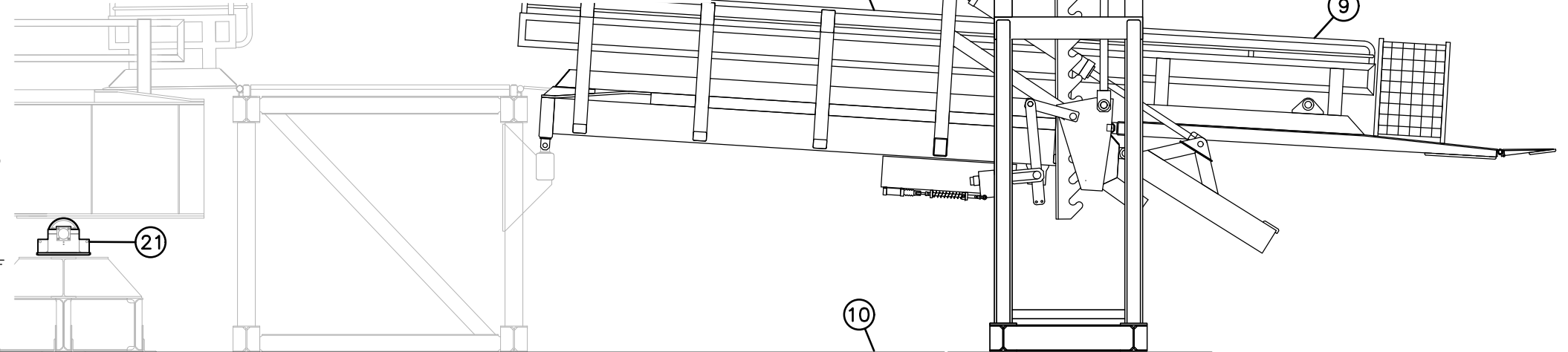
SPECIAL INSTRUCTIONS:

- **APRON (ITEM 9)** – SEPARATE THE APRON AT ITS HINGED CONNECTION TO THE VEHICLE RAMP (PHOTO 7). REMOVE THE BOLTED PIN KEEPERS, WITHDRAW THE PINS AND THEN REINSTALL THE PINS IN THE APRON HINGES FOR REUSE.
- **ACTUATOR – APRON (ITEM 8)** – FULLY RETRACT THE ACTUATOR AND TEMPORARILY SECURE THE APRON LIFT ASSEMBLY TO THE VEHICLE RAMP. REMOVE HOSES, INSTALL PLUGS IN ALL PORTS, UNBOLT CLEVIS END AND REMOVE ROD END PIN. REINSTALL PIN INTO ROD END FOR REUSE.
- **HANGER BAR (ITEM 18)** – DISCONNECT THE HANGER BARS BY REMOVING THE BOLTS AT THE TOWER BENT (PHOTO 4) AND WITHDRAWING THE BARS FROM THE LIFT BEAM LOCK.
- **ACTUATOR – VEHICLE RAMP (ITEM 19)** – TEMPORARILY SHORE THE VEHICLE RAMP AND DISCONNECT THE ACTUATORS FROM THE LIFT BEAM BY REMOVING THE ROD END PIN. FULLY RETRACT THE ACTUATORS, REMOVE HOSES, PLUG PORTS, AND UNBOLT THE CLEVIS END FROM THE TOWER BENT (PHOTO 4).
- **VEHICLE RAMP (ITEM 7)** – APRON & RAMP CONTROL PANELS (ITEM 11) AND ELECTRICAL CONDUIT TO REMAIN ATTACHED TO THE RAMP. SEPARATE CONDUITS AT CONDULETS (PHOTO 3) NEAR THE SHOREWARD HINGES. DISCONNECT AND INSTALL PLUGS IN HYDRAULIC HOSES FROM PLATFORM 2 (PHOTO 1). SECURE HOSES TO UNDERSIDE OF RAMP.

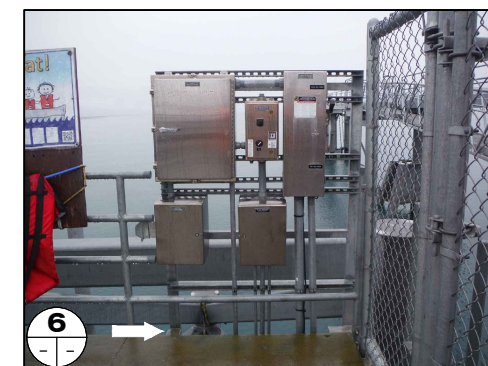
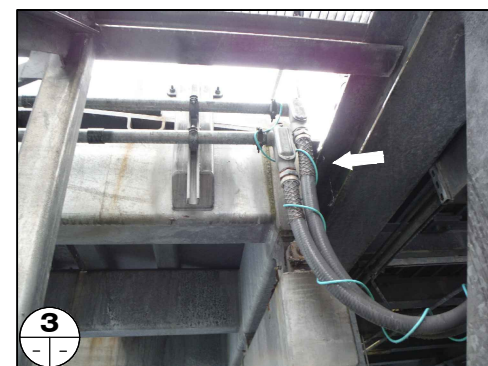
SEPARATE THE RAMP FROM PLATFORM 2 AT THE SHOREWARD HINGES (PHOTO 2). WITHDRAW THE HINGE PINS, LIFT THE RAMP AND REINSTALL THE PINS IN THE HINGES FOR REUSE. EXERCISE CARE TO AVOID DAMAGE TO HYDRAULIC TUBING UNDERNEATH AND ON THE SIDES OF THE RAMP.

PLATFORM-TO-RAMP TRANSITION PLATE TO BE DISPOSED OF. RAMP-TO-APRON TRANSITION PLATE TO REMAIN WITH RAMP.

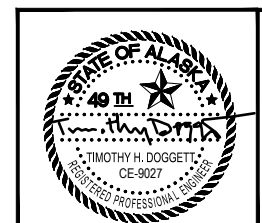
- **VEHICLE RAMP TOWERS & HANGERS (ITEM 18)** – REMOVE HOSES AND PLUG HYDRAULIC TUBING. UNBOLT RAMP COLUMNS FROM SILLS (PHOTO 8). REMOVE VEHICLE RAMP FRAME SILL FROM FLOAT.
- **HYDRAULIC POWER UNIT (ITEM 5)** – DISCONNECT AND PLUG THE HYDRAULIC TUBING ON THE RIGHT SIDE OF THE HPU CABINET (PHOTO 5). REMOVE THE CONDUCTORS AND CONDUIT FROM ELECTRIC PANEL MOUNTED TO THE LEFT SIDE OF THE HPU CABINET.
- **ELECTRICAL PANELS (ITEM 20)** – DISCONNECT CONDUCTORS AND CONDUITS FEEDING ELECTRICAL PANELS. CUT PANEL TUBE SUPPORTS AT THEIR BASE, JUST ABOVE THE PLATFORM 2 FRAMING (PHOTO 6).
- **AREA LIGHTING (ITEM 22)** – UNBOLT LIGHT POLE BASES FROM PLATFORM 2 FRAMING AND VEHICLE RAMP TOWER. LIGHT FIXTURES MAY BE DISCARDED.
- **BRIDGE BEARING ROLLERS (ITEM 21)** – UNBOLT (5 EA) HORIZONTAL ROLLER BEARINGS AND (3 EA) VERTICAL ALIGNMENT ROLLERS FROM THE BUILT-UP BASE UNDER THE TRANSFER BRIDGE (PHOTO 9).
- **SECTIONAL FLOAT (ITEM 10)** – AFTER REMOVING ALL STRUCTURES FROM THE DECK, PULL TOPSIDE HATCHES AND PUMP OUT BALLAST WATER (WATER MAY BE DISCHARGED INTO THE OCEAN). REMOVE CP ANODES AND CABLES. SEPARATE FLOAT INTO ITS INDIVIDUAL MODULES BY PULLING THE LOCKING BARS FROM EACH LOCK. TRANSPORT AND STORE THOSE MODULES TO BE SALVAGED ON TIMBER CRIBBING IN THE DESIGNATED AREA OF THE STAGING AREA. POWER WASH MODULES TO REMOVE MARINE GROWTH. MODULES NOT DESIGNATED FOR SALVAGE TO BE DISPOSED BY CONTRACTOR. STACK SALVAGED MODULES 2-HIGH, SEPARATED BY TIMBER CRIBBING, IN THE CONFIGURATION SHOWN IN STORAGE AREA SITE PLAN.



E ELEVATION
007/008



← ARROW INDICATES WHERE TO SEPARATE COMPONENTS.

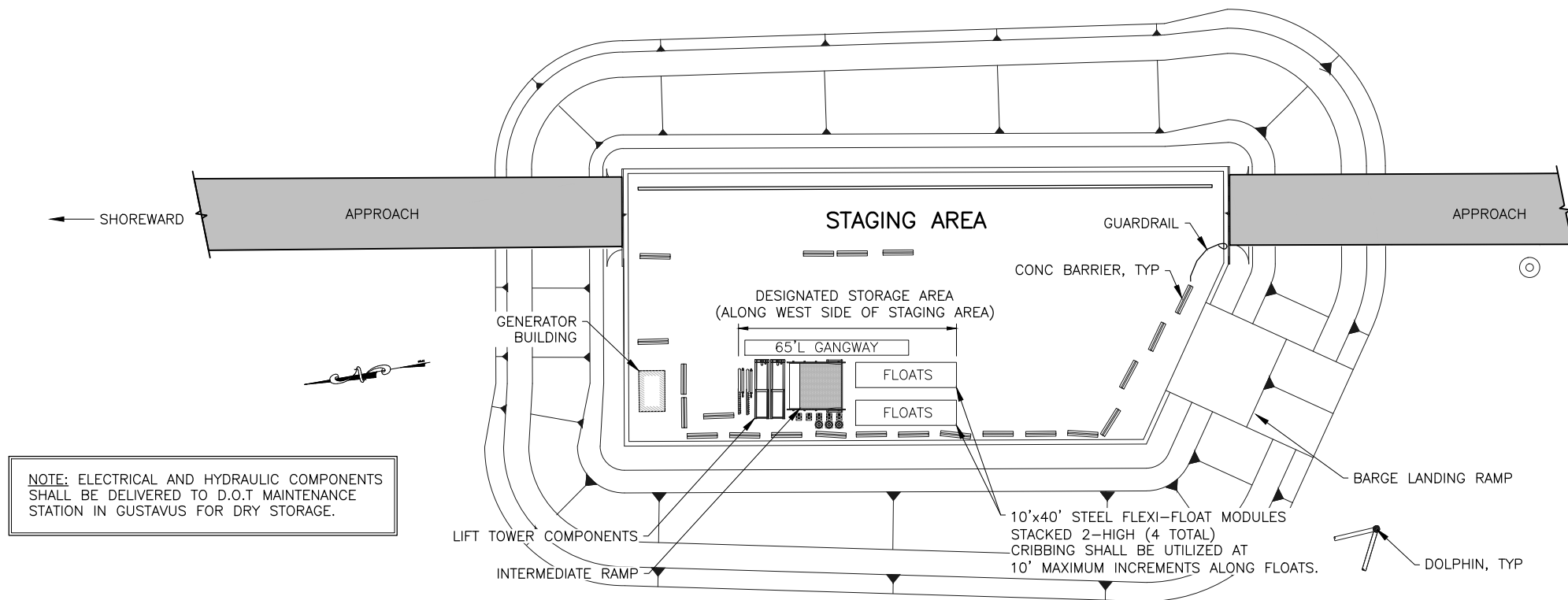
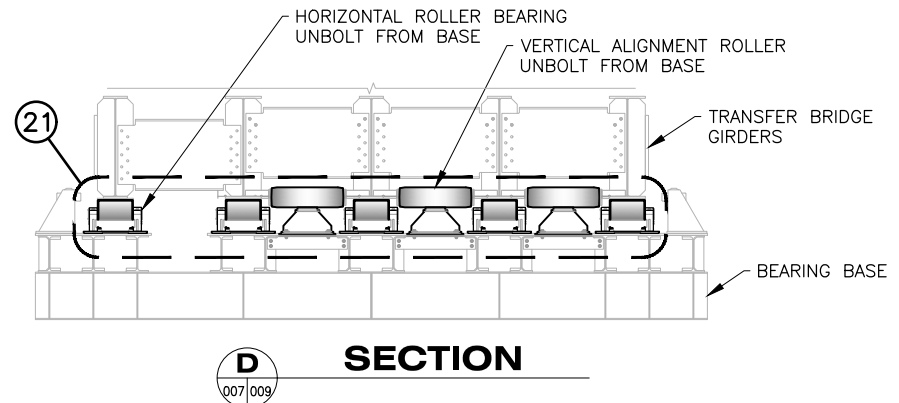
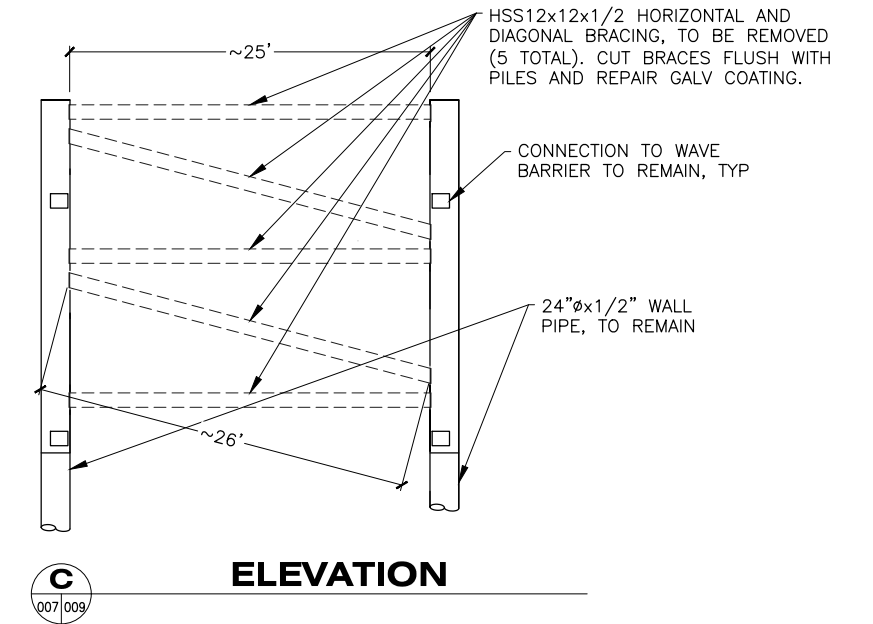
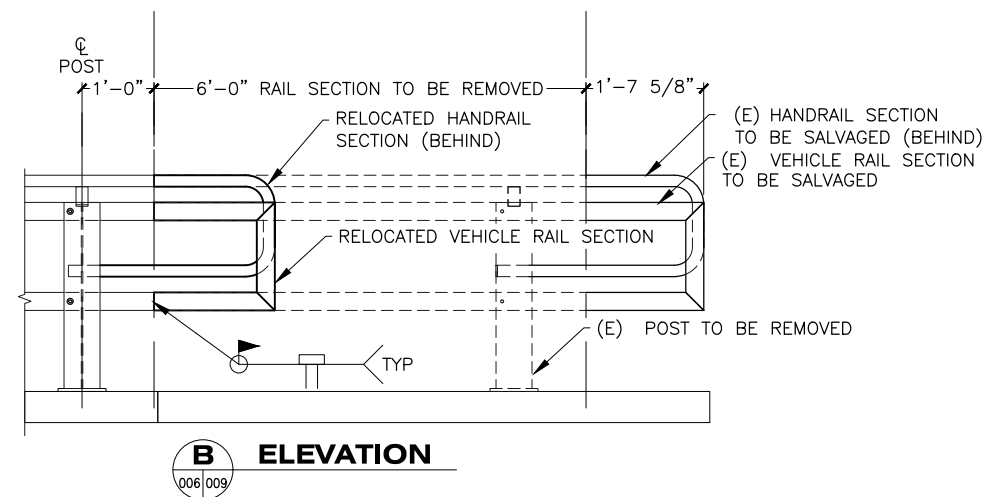
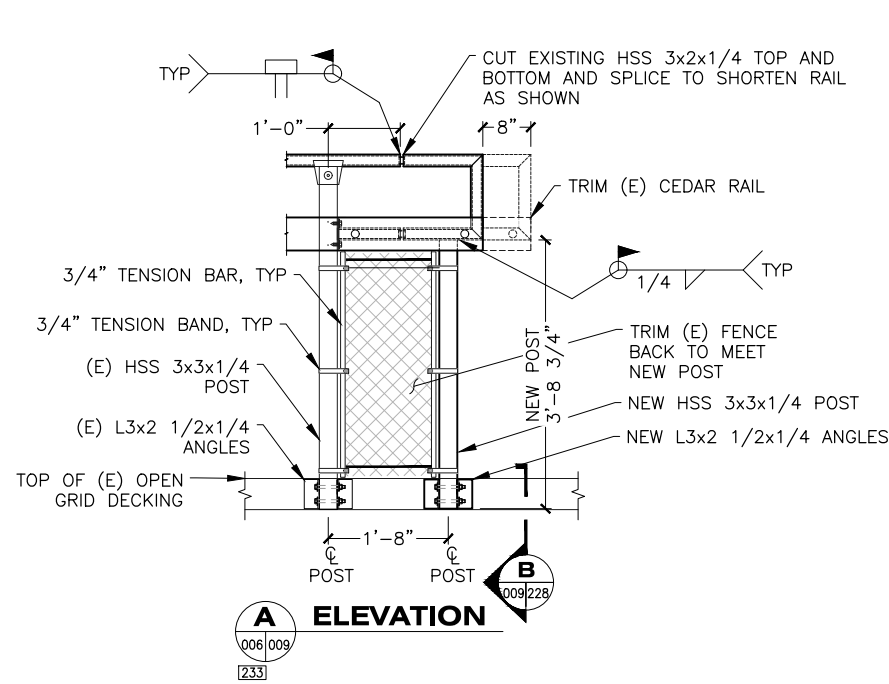


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

DEMOLITION DETAILS
 HH 10/01/2024

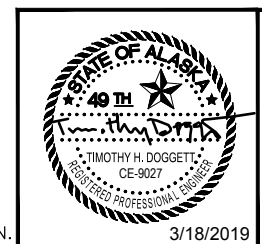
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	009	145



NOTE: ELECTRICAL AND HYDRAULIC COMPONENTS SHALL BE DELIVERED TO D.O.T MAINTENANCE STATION IN GUSTAVUS FOR DRY STORAGE.

1 SALVAGED ITEMS STORAGE AREA - SITE PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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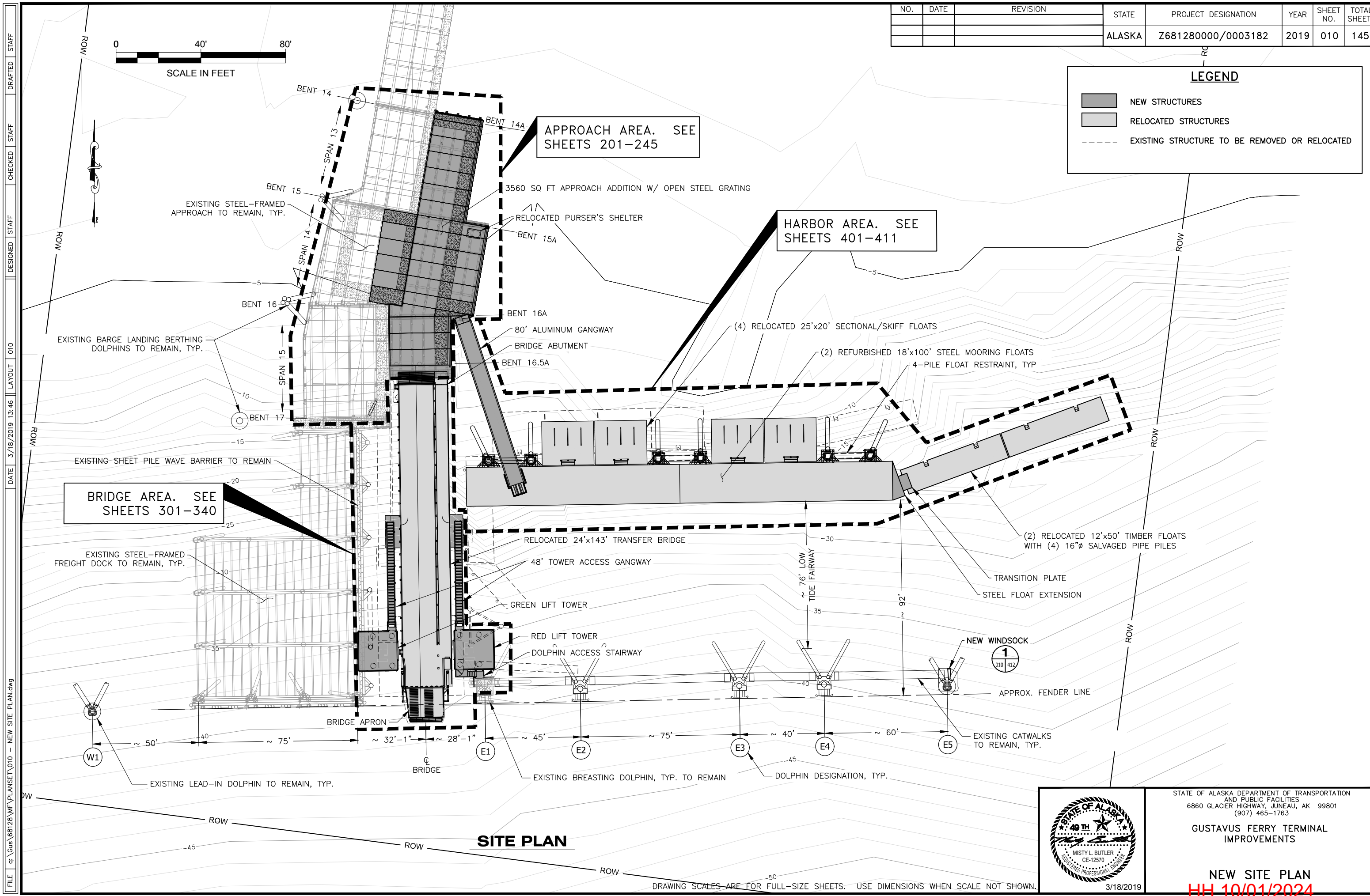
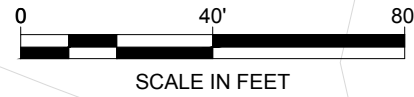
DEMOLITION DETAILS
HH 10/01/2024

FILE: q:\Gus\68128\WF\PLANSET\008-009 - DEMOLITION DETAILS.dwg DATE: 3/18/2019 13:43 LAYOUT: 009 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	010	145

LEGEND

- NEW STRUCTURES
- RELOCATED STRUCTURES
- EXISTING STRUCTURE TO BE REMOVED OR RELOCATED



FILE: q:\us\68128\WF\PLANSET\010 - NEW SITE PLAN.dwg
 DATE: 3/18/2019 13:46
 LAYOUT: 010
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

SITE PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

NEW SITE PLAN
HH 10/01/2024

3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	101	145

SURVEY CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
261	36716.52	35105.88	24.52	MAG_TBM
262	36506.21	35058.81	24.68	MAG_NAIL
263	36319.93	35027.88	24.41	PK_NAIL

PILE LOCATION			
PILE	NORTHING	EASTING	REMARKS
E-1	36340.88	35058.22	FIELD VERIFY LOCATION. NOTIFY ENGINEER IF THERE'S A CONFLICT BETWEEN NEW AND EXISTING.
E-2	36323.64	35110.02	SEE NOTE 1
P-1	36590.37	35092.07	SEE NOTE 1
P-2	36589.01	35099.95	SEE NOTE 1
P-3	36587.66	35107.83	SEE NOTE 1
P-4	36543.62	35084.02	SEE NOTE 1
P-5	36542.10	35092.89	SEE NOTE 1
P-6	36540.57	35101.76	SEE NOTE 1
P-7	36539.04	35110.63	SEE NOTE 1
P-8	36495.85	35070.86	SEE NOTE 1
P-9	36495.98	35079.36	SEE NOTE 1
P-10	36496.10	35087.86	SEE NOTE 1
P-11	36496.23	35096.36	SEE NOTE 1
P-12	36496.35	35104.86	SEE NOTE 1
P-13	36473.44	35071.19	SEE NOTE 1
P-14	36473.60	35082.19	SEE NOTE 1
P-15	36473.76	35093.19	SEE NOTE 1
P-16	36467.93	35072.00	SEE NOTE 2
P-17	36468.09	35082.67	SEE NOTE 2
P-18	36468.25	35093.34	SEE NOTE 2
P-19	36457.93	35072.15	SEE NOTE 2
P-20	36458.09	35082.82	SEE NOTE 2
P-21	36458.25	35093.48	SEE NOTE 2
P-22	36345.25	35060.09	SEE NOTE 2
P-23	36345.38	35069.09	SEE NOTE 2
P-24	36331.25	35060.30	SEE NOTE 2

PILE LOCATION			
PILE	NORTHING	EASTING	REMARKS
P-25	36331.38	35069.30	SEE NOTE 2
P-26	36345.85	35101.09	SEE NOTE 2
P-27	36345.98	35110.09	SEE NOTE 2
P-28	36331.85	35101.30	SEE NOTE 2
P-29	36331.98	35110.29	SEE NOTE 2
P-30	36427.94	35114.70	VERTICAL PILE
P-30B			BATTER PILE
P-31	36428.23	35134.69	VERTICAL PILE
P-31B			BATTER PILE
P-32	36429.11	35194.70	VERTICAL PILE
P-32B			BATTER PILE
P-33	36429.40	35214.69	VERTICAL PILE
P-33B			BATTER PILE
P-34	36430.28	35274.68	VERTICAL PILE
P-34B			BATTER PILE
P-35	36430.58	35294.68	VERTICAL PILE
P-35B			BATTER PILE
P-36	36426.70	35321.02	
P-37	36435.33	35344.48	
P-38	36444.13	35368.41	
P-39	36452.76	35391.88	

NOTE:

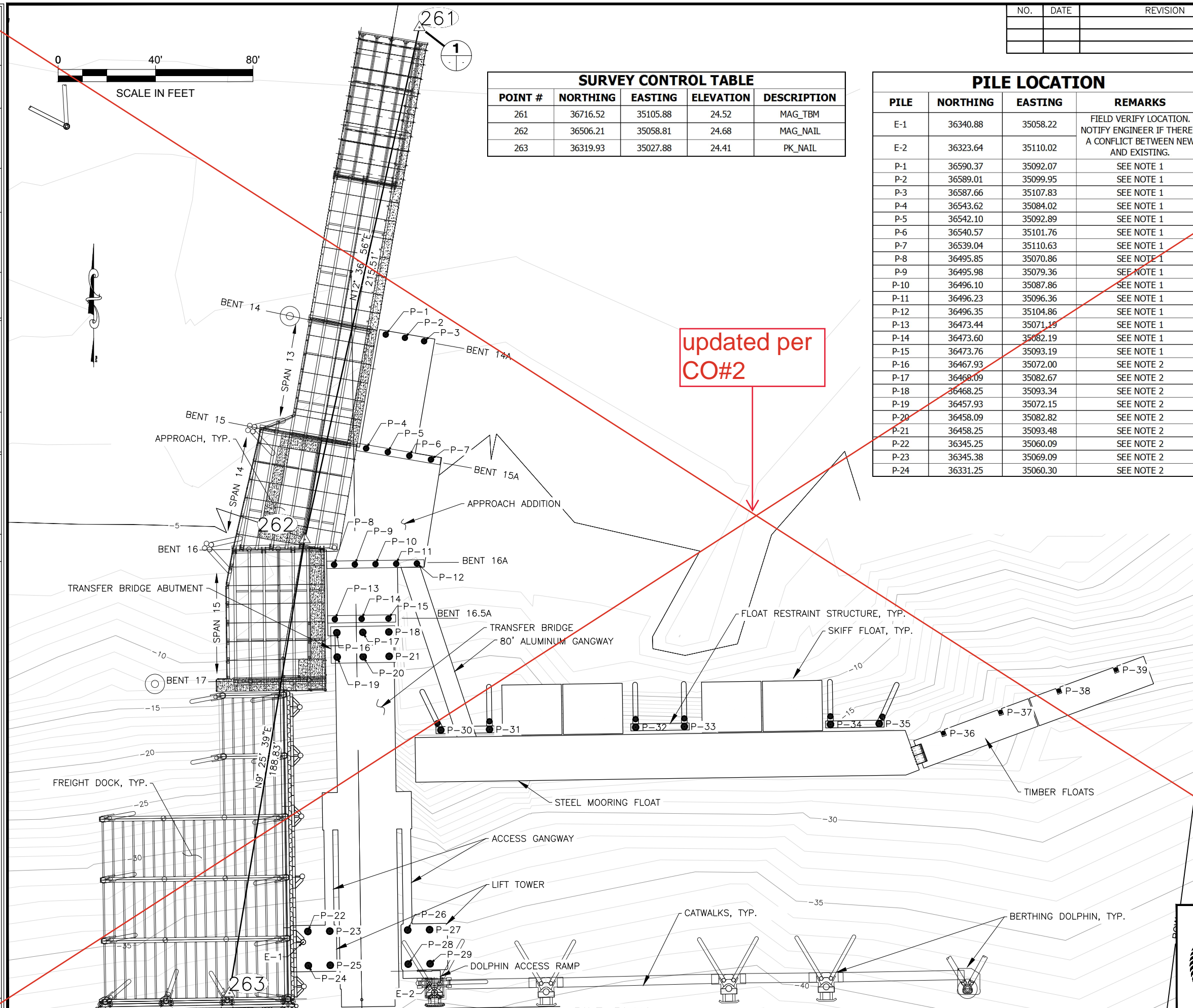
- THE LOCATIONS OF PILES P-1 THROUGH P-15 ARE NOT FINAL. PILE LOCATIONS ARE BASED ON THE CENTERLINE OF NEW STRINGERS 13A & 14A WHICH SHALL BE ESTABLISHED BY CONTRACTOR ON-SITE. SEE "APPROACH ADDITION PROJECT CONTROL" SHEET FOR DETAILS. FINAL PILE COORDINATES SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL MAKE CERTAIN THE PILES SUPPORTING THE TRANSFER BRIDGE ARE PLUMB AND AT THE DESIGN LOCATION TO ENSURE ACCEPTABLE ASSEMBLY OF THE SUBSTRUCTURES AND PROPER OPERATION OF THE MOVABLE TRANSFER BRIDGE.

THE CONTRACTOR SHALL USE A STABLE, DOUBLE-STAGE DRIVING TEMPLATE TO LOCATE AND GUIDE THESE PILES. THE USAGE PERMIT ALLOWS THE CONTRACTOR TO INSTALL AND REMOVE A TOTAL OF (12) PILES, NOT TO EXCEED 24-INCH DIAMETER, FOR CONSTRUCTION OF THREE SEPARATE TEMPLATE INSTALLATIONS.



(261) MAG NAIL IN ASPHALT
VERTICAL CONTROL - TBM 261
ASSUMED ELEV = 24.4'

updated per CO#2



PILE PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

PILE PLAN & SURVEY CONTROL

HH 10/01/2024

3/18/2019

FILE: G:\us\68128\WF\PLANSET\101-102 - PILE PLAN & SV CONTROL.dwg
 DATE: 3/18/2019 13:48 LAYOUT: 101
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/12/20	MODIFIED COORDINATES P-16 THRU P-29	ALASKA	Z681280000/0003182	2019	101	145

SURVEY CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
261	36716.52	35105.88	24.52	MAG_TBM
262	36506.21	35058.81	24.68	MAG_NAIL
263	36319.93	35027.88	24.41	PK_NAIL

PILE LOCATION			
PILE	NORTHING	EASTING	REMARKS
E-1	36340.88	35058.22	FIELD VERIFY LOCATION. NOTIFY ENGINEER IF THERE'S A CONFLICT BETWEEN NEW AND EXISTING.
E-2	36323.64	35110.02	SEE NOTE 1
P-1	36590.37	35092.07	SEE NOTE 1
P-2	36589.01	35099.95	SEE NOTE 1
P-3	36587.66	35107.83	SEE NOTE 1
P-4	36543.62	35084.02	SEE NOTE 1
P-5	36542.10	35092.89	SEE NOTE 1
P-6	36540.57	35101.76	SEE NOTE 1
P-7	36539.04	35110.63	SEE NOTE 1
P-8	36495.85	35070.86	SEE NOTE 1
P-9	36495.98	35079.36	SEE NOTE 1
P-10	36496.10	35087.86	SEE NOTE 1
P-11	36496.23	35096.36	SEE NOTE 1
P-12	36496.35	35104.86	SEE NOTE 1
P-13	36473.44	35071.19	SEE NOTE 1
P-14	36473.60	35082.19	SEE NOTE 1
P-15	36473.76	35093.19	SEE NOTE 1
P-16	36467.93	35072.06	SEE NOTE 2
P-17	36468.09	35082.72	SEE NOTE 2
P-18	36468.25	35093.39	SEE NOTE 2
P-19	36457.93	35072.10	SEE NOTE 2
P-20	36458.09	35082.76	SEE NOTE 2
P-21	36458.25	35093.43	SEE NOTE 2
P-22	36345.32	35060.09	SEE NOTE 2
P-23	36345.45	35069.09	SEE NOTE 2
P-24	36331.32	35060.30	SEE NOTE 2

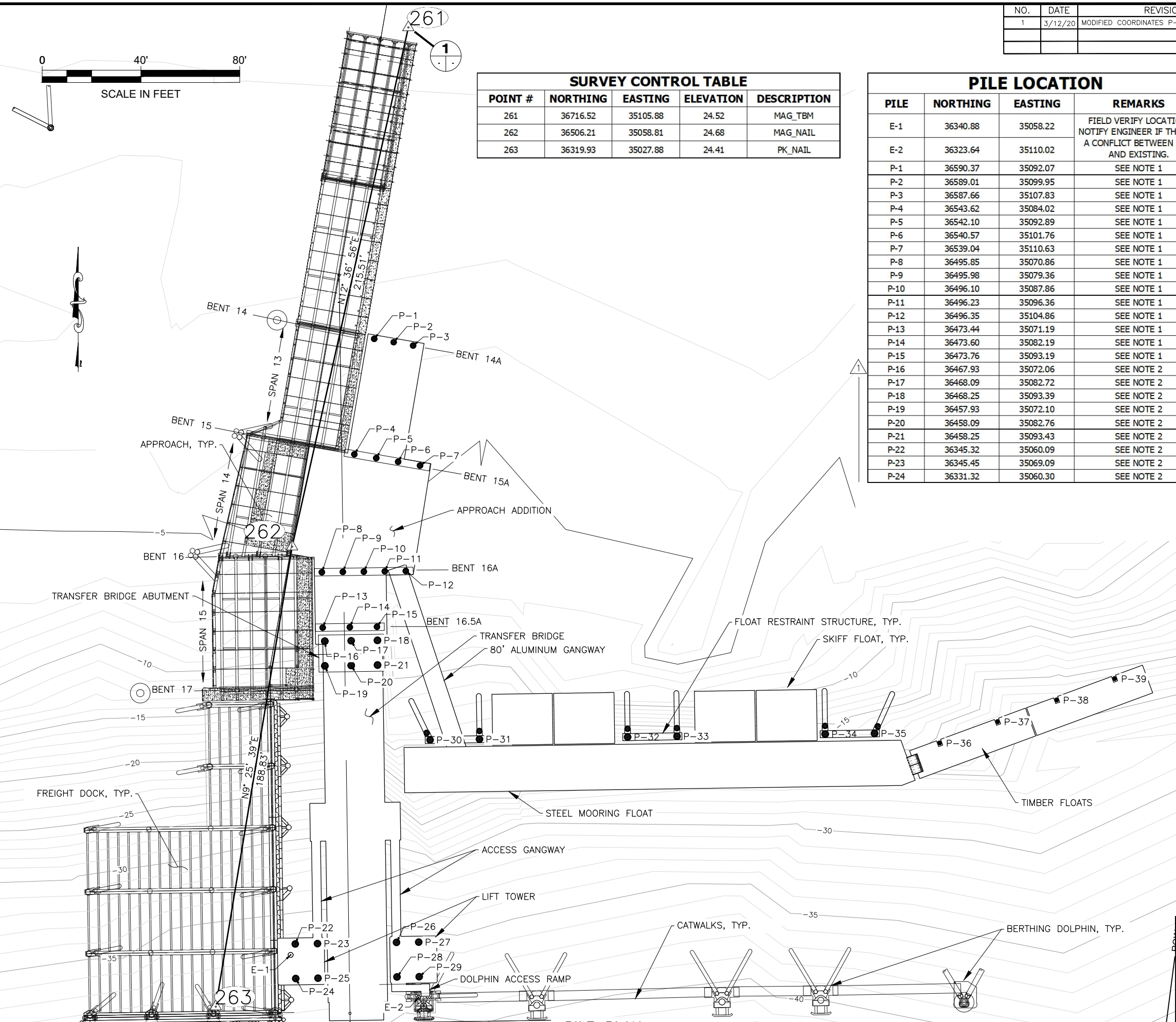
PILE LOCATION			
PILE	NORTHING	EASTING	REMARKS
P-25	36331.45	35069.30	SEE NOTE 2
P-26	36345.92	35101.09	SEE NOTE 2
P-27	36346.05	35110.09	SEE NOTE 2
P-28	36331.92	35101.29	SEE NOTE 2
P-29	36332.05	35110.29	SEE NOTE 2
P-30	36427.94	35114.70	VERTICAL PILE
P-30B			BATTER PILE
P-31	36428.23	35134.69	VERTICAL PILE
P-31B			BATTER PILE
P-32	36429.11	35194.70	VERTICAL PILE
P-32B			BATTER PILE
P-33	36429.40	35214.69	VERTICAL PILE
P-33B			BATTER PILE
P-34	36430.28	35274.68	VERTICAL PILE
P-34B			BATTER PILE
P-35	36430.58	35294.68	VERTICAL PILE
P-35B			BATTER PILE
P-36	36426.70	35321.02	
P-37	36435.33	35344.48	
P-38	36444.13	35368.41	
P-39	36452.76	35391.88	

- NOTE:
1. THE LOCATIONS OF PILES P-1 THROUGH P-15 ARE NOT FINAL. PILE LOCATIONS ARE BASED ON THE CENTERLINE OF NEW STRINGERS 13A & 14A WHICH SHALL BE ESTABLISHED BY CONTRACTOR ON-SITE. SEE "APPROACH ADDITION PROJECT CONTROL" SHEET FOR DETAILS. FINAL PILE COORDINATES SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
 2. THE CONTRACTOR SHALL MAKE CERTAIN THE PILES SUPPORTING THE TRANSFER BRIDGE ARE PLUMB AND AT THE DESIGN LOCATION TO ENSURE ACCEPTABLE ASSEMBLY OF THE SUBSTRUCTURES AND PROPER OPERATION OF THE MOVABLE TRANSFER BRIDGE.

THE CONTRACTOR SHALL USE A STABLE, DOUBLE-STAGE DRIVING TEMPLATE TO LOCATE AND GUIDE THESE PILES. THE USACE PERMIT ALLOWS THE CONTRACTOR TO INSTALL AND REMOVE A TOTAL OF (12) PILES, NOT TO EXCEED 24-INCH DIAMETER, FOR CONSTRUCTION OF THREE SEPARATE TEMPLATE INSTALLATIONS.



VERTICAL CONTROL - TBM 261
ASSUMED ELEV = 24.4'



PILE PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

PILE PLAN & SURVEY CONTROL

HH 10/01/2024

FILE Q:\ous\68128\VF\PLANSET\101-102 - PILE PLAN & SV CONTROL (Rev 3-12-20).dwg
 DATE 3/12/2020 14:02 LAYOUT 101
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF

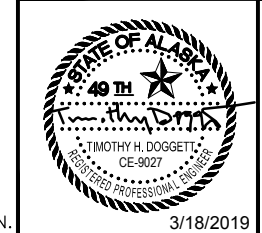
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	102	145

FILE G:\Gus\68128\WF\PLANSET\101-102 - PILE PLAN & SV CONTROL.dwg DATE 3/18/2019 13:48 LAYOUT 102 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

PILE DATA TABLE																										
	PILE DESIGNATION		DRIVING CRITERIA					DESIGN DATA					ESTIMATED LENGTH													
			NOMINAL RESISTANCE		MINIMUM EMBEDMENT	ESTIMATED TIP ELEVATION	CUT OFF ELEVATION	DRIVING RESISTANCE	FACTORED LOADS							DLT PILE										
			COMPRESSION	TENSION					COMPRESSION ($\phi = 0.65$)	TENSION ($\phi = 0.50$)	EXTREME EVENT COMPRESSION ($\phi = 1.00$)	TENSION ($\phi = 0.80$)	16" ϕ	24" ϕ	30" ϕ											
NO.	TYPE	(KIPS)	(KIPS)	(FT)	(FT)	(FT)	(KIPS)	(KIPS)	(KIPS)	(KIPS)		(FT)	(FT)	(FT)												
P-1	PP24x0.500	350	110	100 _{B)}	-104	+20.5**	400	225	20	135	85	NOTE 1		125												
P-2	PP24x0.500													125												
P-3	PP24x0.500													125												
P-4	PP24x0.500													126												
P-5	PP24x0.500													126												
P-6	PP24x0.500													126												
P-7	PP24x0.500													126												
P-8	PP24x0.500													127												
P-9	PP24x0.500													127												
P-10	PP24x0.500													127												
P-11	PP24x0.500													127												
P-12	PP24x0.500													127												
P-13	PP24x0.500													129												
P-14	PP24x0.500													129												
P-15	PP24x0.500													129												
P-16	PP30x0.625	350	250	135 _{A)}	-147	+15.5	600	290	50	550	200	NOTE 1		163												
P-17	PP30x0.625													163												
P-18	PP30x0.625													163												
P-19	PP30x0.625													163												
P-20	PP30x0.625													163												
P-21	PP30x0.625													163												
P-22	PP30x0.625	480	220	145 _{A)}	-185	+31.8	650	315	35	410	170	NOTE 1		217												
P-23	PP30x0.625													217												
P-24	PP30x0.625													217												
P-25	PP30x0.625													217												
P-26	PP30x0.625													217												
P-27	PP30x0.625													217												
P-28	PP30x0.625													217												
P-29	PP30x0.625		217																							
P-30	PP30x0.500	110	300	70 _{B)}	-87	+31.0	400	75	150	NA	NA			118												
P-31	PP30x0.500													118												
P-32	PP30x0.500													118												
P-33	PP30x0.500													118												
P-34	PP30x0.500													118												
P-35	PP30x0.500													118												
P-30B	PP24x0.500												290	120	75 _{A)}	-72	+37.5	340	190	60	NA	NA			116	
P-31B	PP24x0.500																								116	
P-32B	PP24x0.500																								116	
P-33B	PP24x0.500																								116	
P-34B	PP24x0.500		116																							
P-35B	PP24x0.500		116																							
P-36	*PP16x0.500	NA	NA	40 _{C)}	-63	+28.0		NA	NA	NA	NA														91	
P-37	*PP16x0.500													91												
P-38	*PP16x0.500													91												
P-39	*PP16x0.500													91												
TOTAL =													364	2,597	3,417											

updated per CO#2

- NOTES:
- 1) DYNAMIC LOAD TEST THE FIRST PILE INSTALLED IN THE SUBSTRUCTURE.
 - 2) NOMINAL RESISTANCE = FACTORED LOAD/ ϕ
 - 3) NOMINAL TENSION RESISTANCE < ULTIMATE SKIN FRICTION FROM DYNAMIC TESTING ANALYSIS
 - 4) MINIMUM EMBEDMENT IS CONTROLLED BY: A) COMPRESSION, B) TENSION, OR C) LATERAL LOAD
 - 5) * SALVAGED PILES. SALVAGED LENGTHS ARE ESTIMATED TO BE (2) PILES AT ~63 FT LONG AND (2) PILES AT ~94 FT LONG. PROVIDE ADDITIONAL 16" ϕ PILE AND SPLICE TO EXISTING AS NEEDED TO MEET ESTIMATED PILE LENGTHS SHOWN.
 - 6) ** TOP OF NEW GRID DECK ON APPROACH SHALL MATCH EXISTING GRID DECK, ADJUST PILE CUTOFF ELEVATION AS NEEDED.
 - 7) PILES ARE PERMITTED TO BE UNGALVANIZED AT A DEPTH 20FT BELOW MUDLINE AND LOWER.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS


PILE DATA TABLE
 HH 10/01/2024

FILE Q:\ous\68128\WP\PLANSET\101-102 - PILE PLAN & SV CONTROL (Rev 3-12-20).dwg DATE 3/12/2020 14:02 LAYOUT 102 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/12/20	CUT OFF ELEV LOWERED 0.05'	ALASKA	Z681280000/0003182	2019	102	145

PILE DATA TABLE																										
	PILE DESIGNATION		DRIVING CRITERIA					DESIGN DATA				ESTIMATED LENGTH														
			NOMINAL RESISTANCE		MINIMUM EMBEDMENT	ESTIMATED TIP ELEVATION	CUT OFF ELEVATION	DRIVING RESISTANCE	FACTORED LOADS		EXTREME EVENT				DLT PILE											
	NO.	TYPE	COMPRESSION	TENSION					COMPRESSION ($\phi = 0.65$)	TENSION ($\phi = 0.50$)		COMPRESSION ($\phi = 1.00$)	TENSION ($\phi = 0.80$)													
	(IN)	(KIPS)	(KIPS)	(FT)	(FT)	(FT)	(KIPS)	(KIPS)	(KIPS)	(KIPS)		16" ϕ	24" ϕ	30" ϕ												
APPROACH	P-1	PP24x0.500	350	110	100 _{B)}	-104	+20.5**	400	225	20	135	85	NOTE 1		125											
	P-2	PP24x0.500													125											
	P-3	PP24x0.500													125											
	P-4	PP24x0.500	350	110	100 _{B)}	-105	+20.5**	400	225	20	135	85	NOTE 1		126											
	P-5	PP24x0.500													126											
	P-6	PP24x0.500													126											
	P-7	PP24x0.500													126											
	P-8	PP24x0.500													127											
	P-9	PP24x0.500	350	110	100 _{B)}	-106	+20.5**	400	225	20	135	85	NOTE 1		127											
	P-10	PP24x0.500													127											
	P-11	PP24x0.500													127											
	P-12	PP24x0.500	350	110	100 _{B)}	-108	+20.5**	400	225	20	135	85	NOTE 1		129											
	P-13	PP24x0.500													129											
	P-14	PP24x0.500													129											
	P-15	PP24x0.500													129											
ABUTMENT	P-16	PP30x0.625	350	250	135 _{A)}	-147	+15.1	600	230	50	350	200	NOTE 1		162											
	P-17	PP30x0.625													162											
	P-18	PP30x0.625													162											
	P-19	PP30x0.625													162											
	P-20	PP30x0.625													162											
	P-21	PP30x0.625													162											
LIFT TOWERS	P-22	PP30x0.625	480	220	145 _{A)}	-185	+31.8	650	315	35	410	170	NOTE 1		217											
	P-23	PP30x0.625													217											
	P-24	PP30x0.625													217											
	P-25	PP30x0.625													217											
	P-26	PP30x0.625													217											
	P-27	PP30x0.625													217											
	P-28	PP30x0.625													217											
	P-29	PP30x0.625													217											
	P-30	PP30x0.500												110	300	70 _{B)}	-87	+31.0	400	75	150	NA	NA	NOTE 1		118
P-31	PP30x0.500		118																							
P-32	PP30x0.500		118																							
P-33	PP30x0.500		118																							
P-34	PP30x0.500		118																							
P-35	PP30x0.500		118																							
MOORING FLOAT	P-30B	PP24x0.500	290	120	75 _{A)}	-72	+37.5	340	190	60	NA	NA	NOTE 1		116											
	P-31B	PP24x0.500													116											
	P-32B	PP24x0.500													116											
	P-33B	PP24x0.500													116											
	P-34B	PP24x0.500													116											
	P-35B	PP24x0.500													116											
	TIMBER FLOAT	P-36												*PP16x0.500	NA	NA	40 _{C)}	-63	+28.0	NA	NA	NA	NA	NOTE 1		91
		P-37												*PP16x0.500												91
		P-38												*PP16x0.500												91
		P-39												*PP16x0.500												91
TOTAL =												364	2,597	3,415												

- NOTES:
- 1) DYNAMIC LOAD TEST THE FIRST PILE INSTALLED IN THE SUBSTRUCTURE.
 - 2) NOMINAL RESISTANCE = FACTORED LOAD/ ϕ
 - 3) NOMINAL TENSION RESISTANCE < ULTIMATE SKIN FRICTION FROM DYNAMIC TESTING ANALYSIS
 - 4) MINIMUM EMBEDMENT IS CONTROLLED BY: A) COMPRESSION, B) TENSION, OR C) LATERAL LOAD
 - 5) * SALVAGED PILES, SALVAGED LENGTHS ARE ESTIMATED TO BE (2) PILES AT ~63 FT LONG AND (2) PILES AT ~94' FT LONG. PROVIDE ADDITIONAL 16" ϕ PILE AND SPLICE TO EXISTING AS NEEDED TO MEET ESTIMATED PILE LENGTHS SHOWN.
 - 6) **TOP OF NEW GRID DECK ON APPROACH SHALL MATCH EXISTING GRID DECK, ADJUST PILE CUTOFF ELEVATION AS NEEDED.
 - 7) PILES ARE PERMITTED TO BE UNGALVANIZED AT A DEPTH 20FT BELOW MUDLINE AND LOWER.



TIMOTHY H. DOGGETT
REGISTERED PROFESSIONAL ENGINEER
CE-9027

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

PILE DATA TABLE
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	103	145

NOTES:
 THE CONTRACTOR SHALL DETERMINE THE LOCATION OF THE APPROACH PILING AFTER MODIFYING THE EXISTING APPROACH BUT BEFORE PROCEEDING WITH PILE DRIVING.

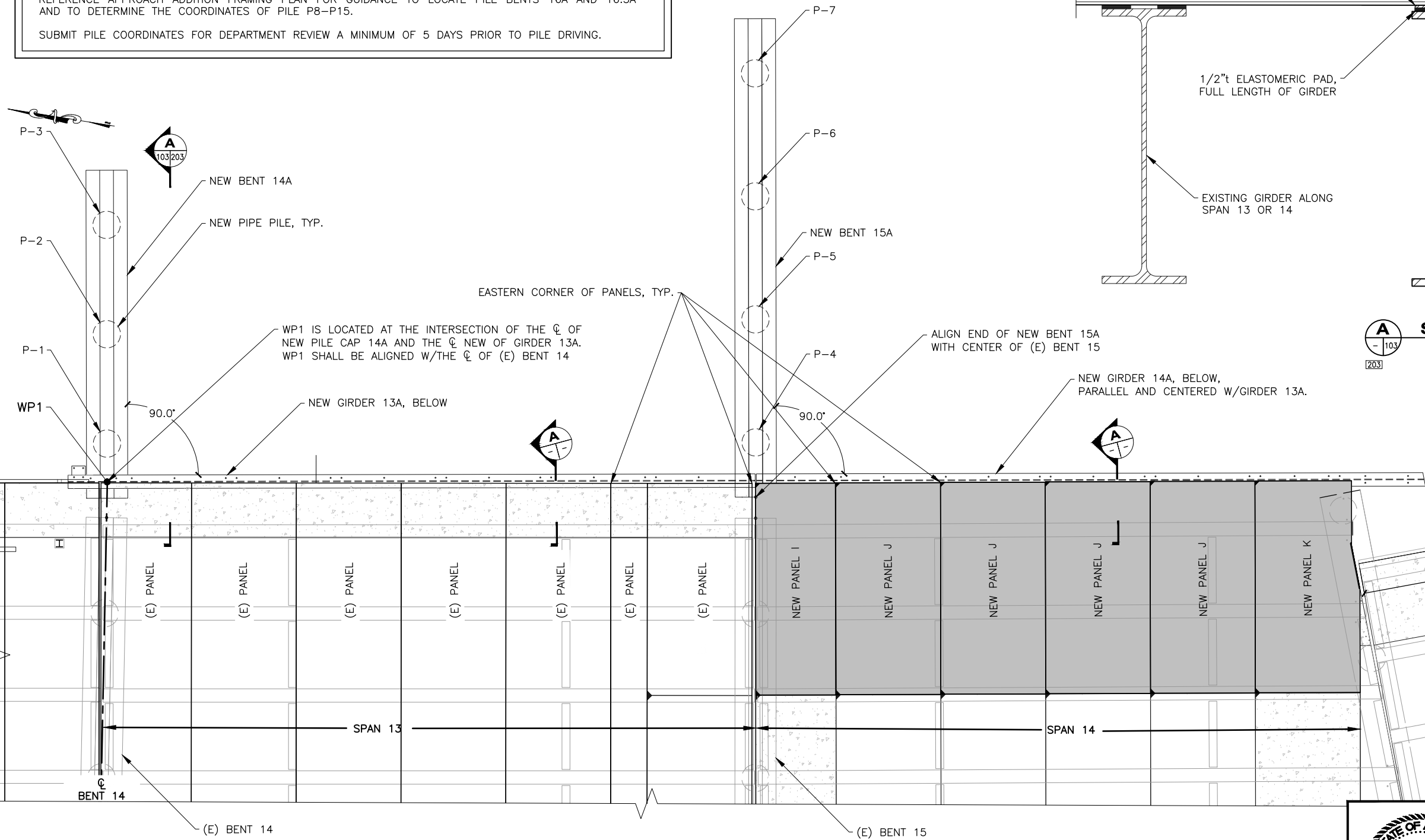
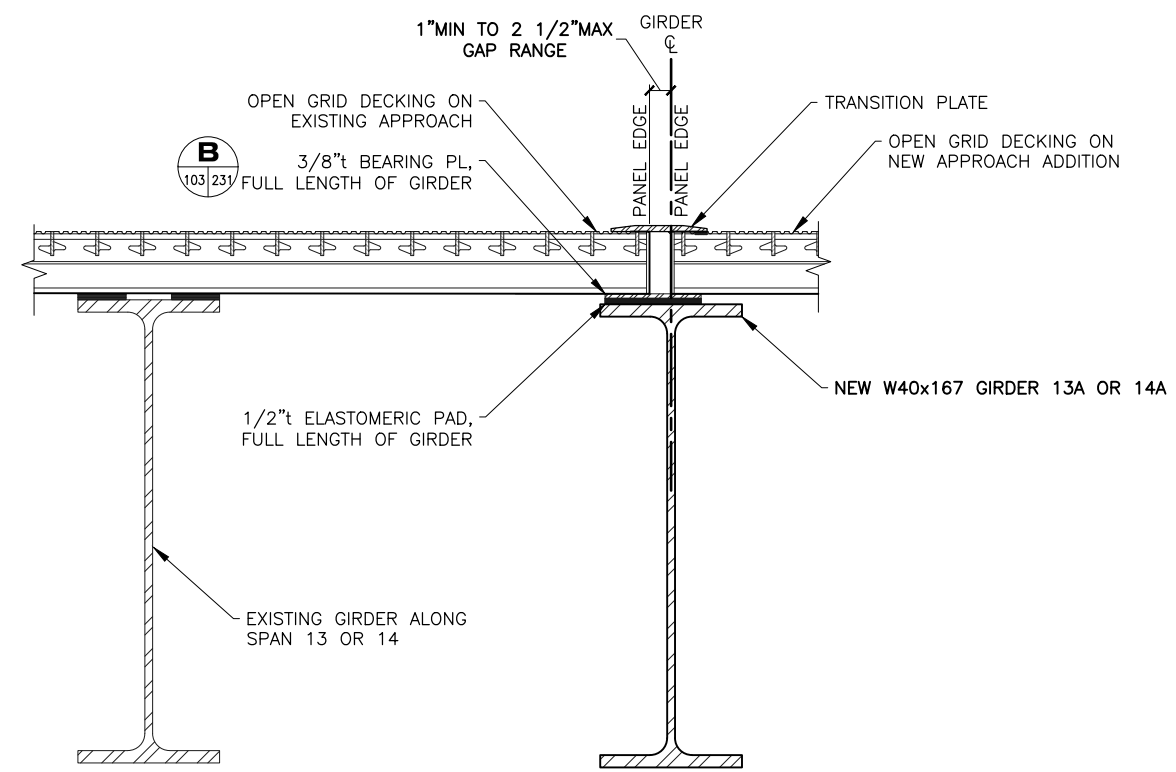
GIRDERS 13A AND 14A ARE LOCATED ALONG THE BOUNDARY BETWEEN THE NEW AND EXISTING APPROACHES AND MUST SUPPORT THE ADJOINING DECK PANEL EDGES. PLACEMENT OF GIRDERS 13A AND 14A SHALL BE DETERMINED IN THE FIELD AND IS THE BASIS FOR LOCATING THE PILES, PILE CAPS AND FRAMING.

A SUGGESTED SEQUENCE FOR DETERMINING THE PILE LOCATIONS FOLLOWS:

1. PLACE DECK PANELS I THRU K ON SPAN 14.
2. SURVEY THE EASTERN CORNERS OF ALL DECK PANELS ALONG SPANS 13 AND 14.
3. LOCATE THE CENTERLINE OF GIRDERS 13A AND 14A WITHIN THE TOLERANCES SHOWN IN SECTION A.
4. THE CONTRACTOR SHALL DETERMINE THE COORDINATES OF PILING P1-P7 BY:
 - A. ALIGNING BENTS 14 AND 14A, AND
 - B. ORIENTING THE PILE CAPS PERPENDICULAR TO GIRDERS 13A AND 14A

REFERENCE APPROACH ADDITION FRAMING PLAN FOR GUIDANCE TO LOCATE PILE BENTS 16A AND 16.5A AND TO DETERMINE THE COORDINATES OF PILE P8-P15.

SUBMIT PILE COORDINATES FOR DEPARTMENT REVIEW A MINIMUM OF 5 DAYS PRIOR TO PILE DRIVING.



1 APPROACH ADDITION PROJECT CONTROL PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

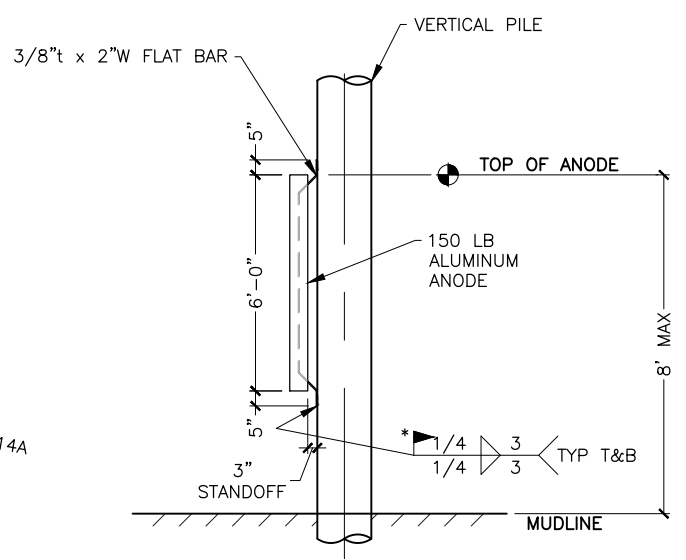
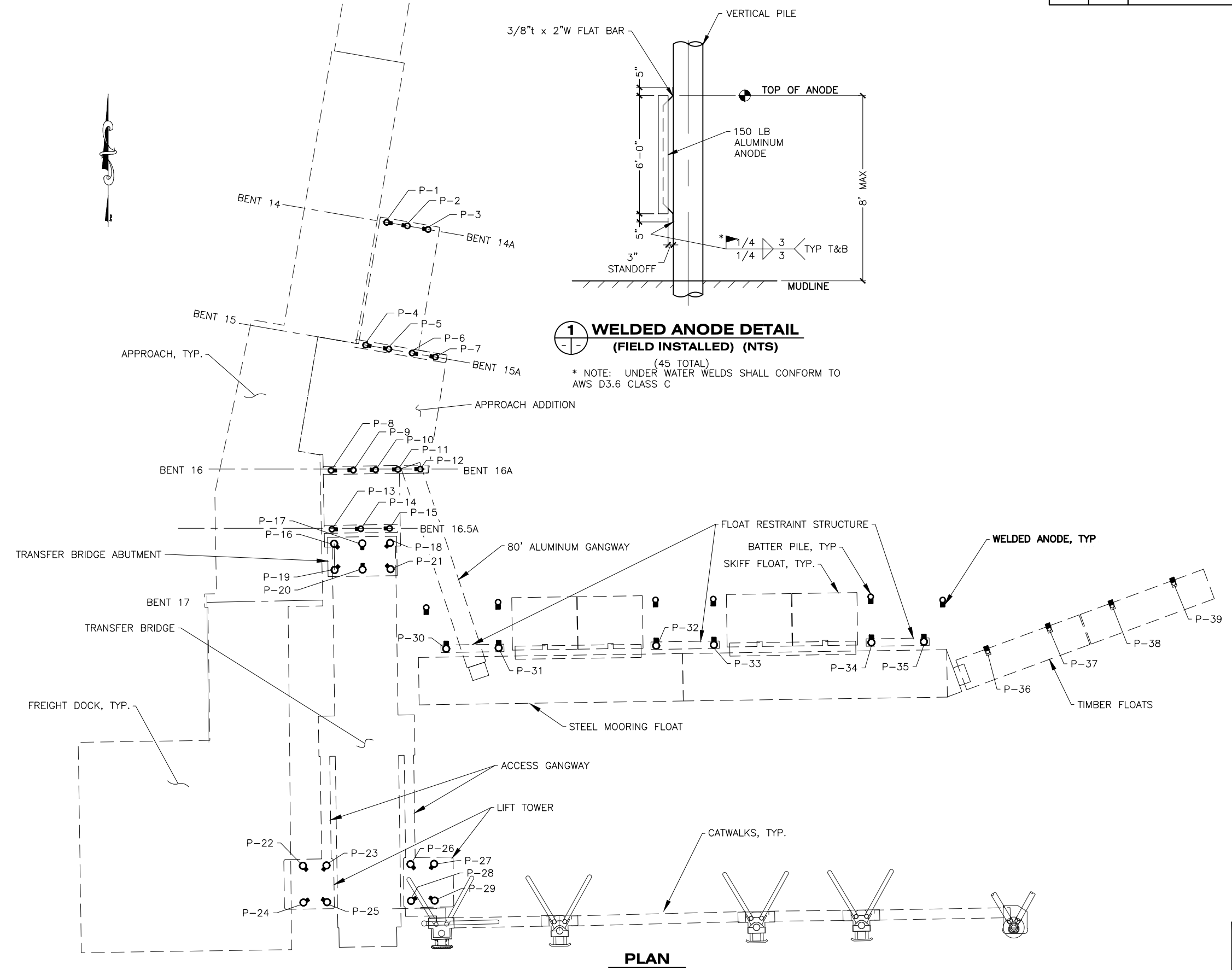
APPROACH ADDITION PROJECT CONTROL

HH 10/01/2024

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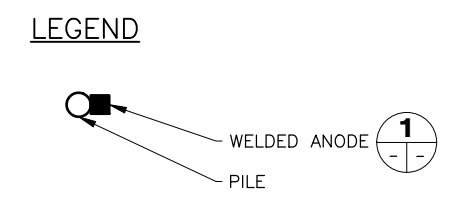
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	104	145

FILE: q:\Gus\68128\WF\PLANSET\104 - ANODE PLAN.dwg
 DATE: 3/18/2019 13:46
 LAYOUT: 104
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

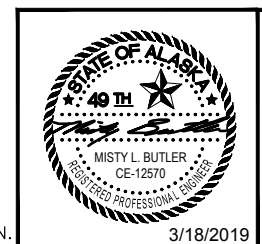


1 WELDED ANODE DETAIL
(FIELD INSTALLED) (NTS)

(45 TOTAL)
* NOTE: UNDER WATER WELDS SHALL CONFORM TO AWS D3.6 CLASS C



CATHODIC PROTECTION SYSTEM:
NOTE: INSTALL ONE ANODE ON EACH NEW & RELOCATED SUPPORT PILE IN ORIENTATION SHOWN.



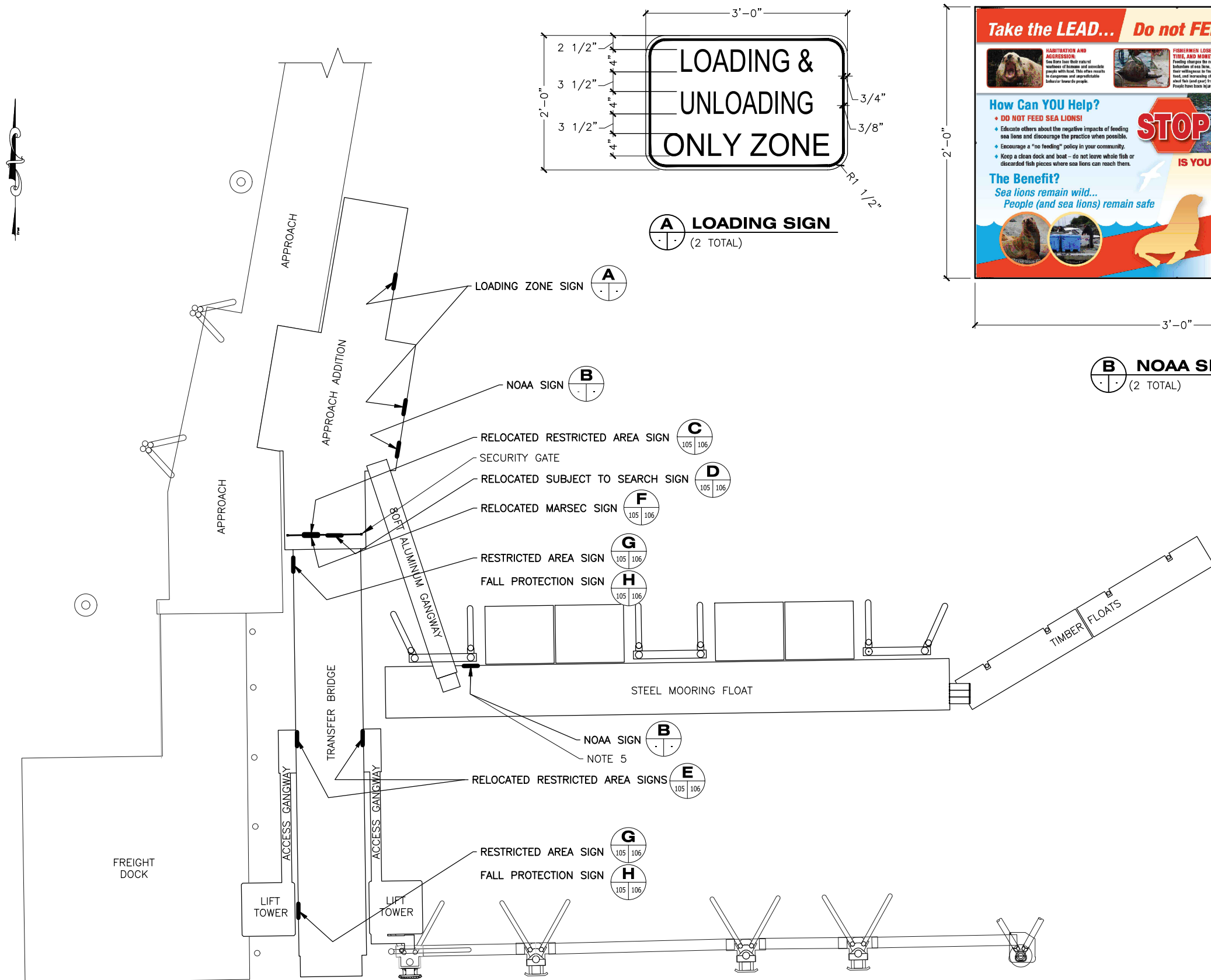
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

PILE ANODE LAYOUT
HH 10/01/2024

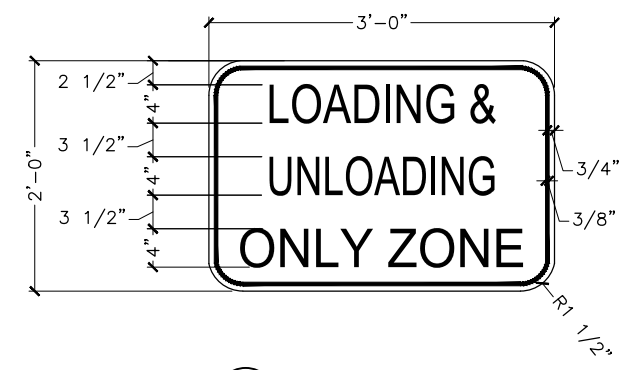
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	105	145



SIGN LAYOUT PLAN

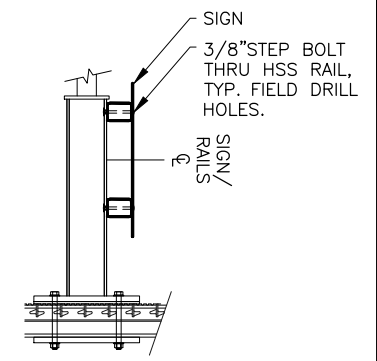
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



A LOADING SIGN
(2 TOTAL)



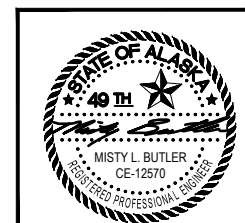
B NOAA SIGN
(2 TOTAL)



3 SIGN MOUNT DETAIL
(ALONG RAILING)

SIGN NOTES:

- INSTALL SIGNS TO BE VISIBLE TO APPROACHING PEDESTRIAN TRAFFIC, AT LOCATIONS AND ORIENTATION SHOWN ON SITE PLAN AND AS DIRECTED BY THE ENGINEER.
- TYPICAL SIGNS SHALL HAVE GREEN LEGEND ON WHITE BACKGROUND. NOAA SIGN SHALL BE OF THE COLORS PROVIDED BY NOAA (SEE NOTE 4). SIGN FABRICATION AND MATERIALS SHALL ALSO CONFORM TO SECTION 615 OF THE STANDARD SPECIFICATIONS. TYPICAL SIGN LETTERING SHALL CONFORM TO THE SIZE AND STYLE AS SHOWN IN THE PLANS AND THE ALASKA SIGN DESIGN SPECIFICATIONS (ASDS).
- ALL MOUNTING HARDWARE AND SIGN BRACKETS SHALL BE STAINLESS STEEL. USE 3/8-INCH MINIMUM DIAMETER BOLTS. DRILL HOLES IN SIGNS TO MATCH THE SELECTED MOUNTING BRACKETS.
- CONTACT NOAA FISHERIES-NATIONAL MARINE FISHERIES SERVICE FOR NOAA SIGN IMAGE FILE AT:
KIM RAUM-SURYAN OR KRISTIN MABRY
NMFS PROTECTED RESOURCES DIVISION
907-586-7424 OR 907-586-7490
Kim.Raum-Suryan@noaa.gov / kristen.mabry@noaa.gov
- CONTRACTOR SHALL FABRICATE STEEL FRAME TO MOUNT NOAA SIGN. FRAME SHALL ATTACH TO EXISTING STEEL BULLRAIL, AND HAVE SIMILAR DETAILS TO THE CONDUIT RACK (SEE DETAIL 1, SHEET 338). ADJUST HEIGHT AND CROSS BAR DIMENSIONS TO FIT THE NOAA SIGN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

SIGNAGE DETAILS
HH 10/01/2024

3/18/2019

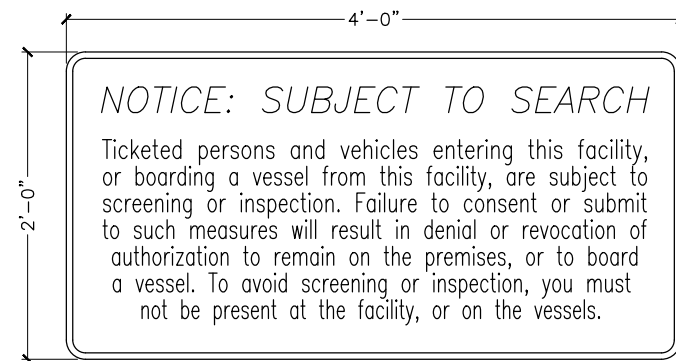
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	106	145



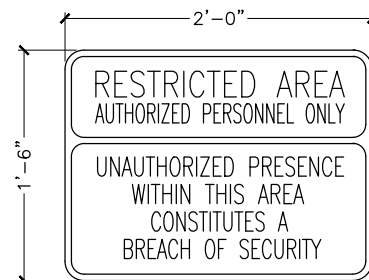
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C (E) RESTRICTED AREA SIGN
 105 106 (1 TOTAL TO BE RELOCATED)



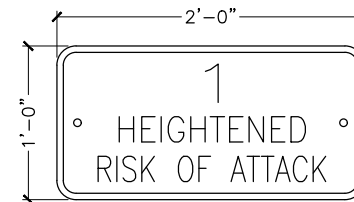
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D (E) SUBJECT TO SEARCH SIGN
 105 106 (1 TOTAL TO BE RELOCATED)

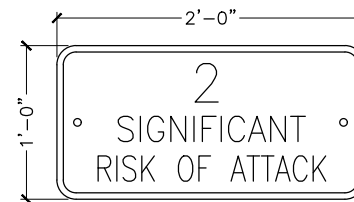


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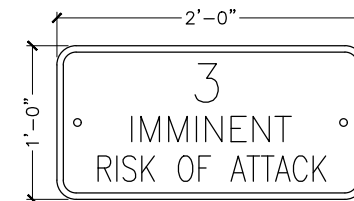
E (E) RESTRICTED AREA SIGN
 105 106 (2 TOTAL TO BE RELOCATED)



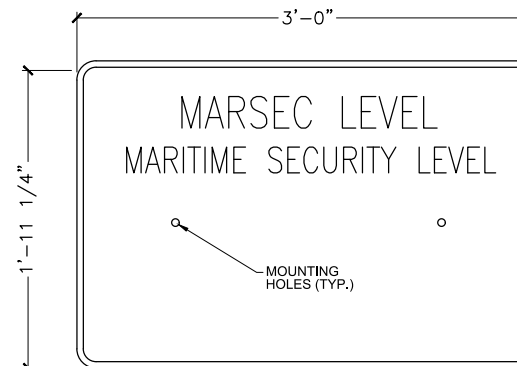
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(BLACK LETTERING ON ORANGE BACKGROUND)

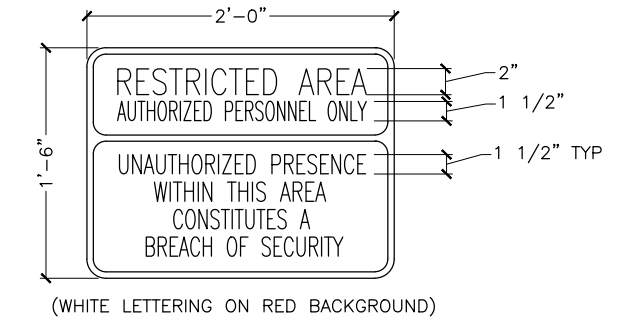


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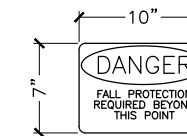
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F (E) MARSEC SIGNS
 105 106 (1 TOTAL TO BE RELOCATED)



(WHITE LETTERING ON RED BACKGROUND)

G NEW RESTRICTED AREA SIGN
 105 106 (2 TOTAL)



H NEW FALL PROTECTION SIGN
 105 106 (2 TOTAL) OSHA COMPLIANT



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

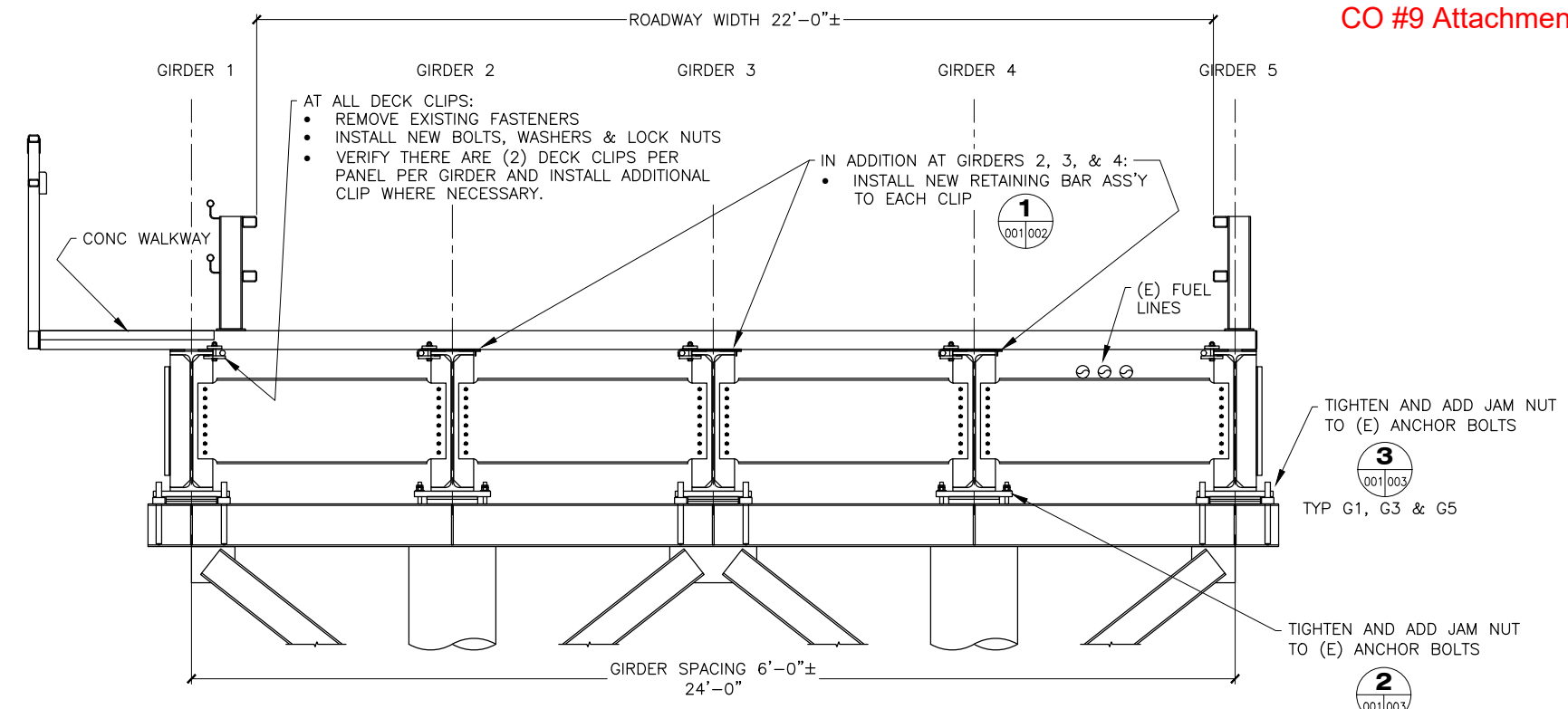
SIGNAGE DETAILS

HH 10/01/2024

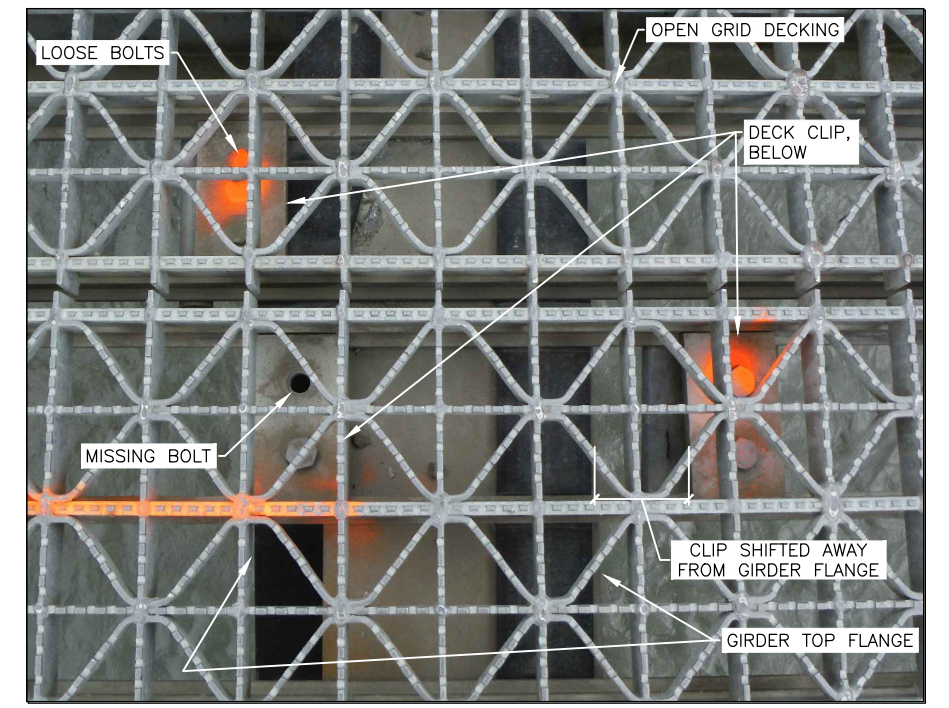
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CO #9 Attachment 1

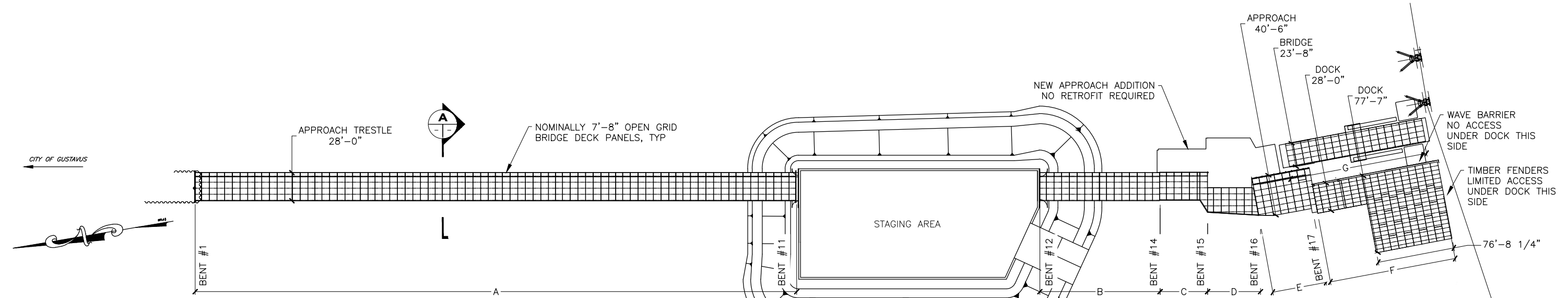
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				Z681280000/0003182	2022	00 1A	4



A TYPICAL SECTION
 APPROACH TRESTLE SHOWN, CONFIGURATION OF OTHER SPANS SIMILAR
 NUMBER OF GIRDERS VARIES, REFER TO WORKING DRAWINGS



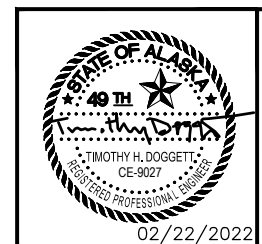
TYPICAL OPEN GRID DECKING



EXISTING SITE PLAN

- NOTES:
- DIMENSIONS ARE BASED UPON AS-BUILT PLANS AND THOSE PLANS MAY NOT SHOW EXISTING DIMENSIONS AND CONDITIONS. FIELD VERIFY CONTROLLING DIMENSIONS AND ADJUST PLAN DIMENSIONS TO FIT EXISTING CONDITIONS PRIOR TO FABRICATION.
 - AT EVERY DECK CLIP REMOVE EXISTING FASTENERS, POSITION CLIP IN CONTACT WITH GIRDER FLANGE AND INSTALL NEW FASTENERS.
 - ADD RETAINING BAR ASSEMBLY TO CLIPS ON GIRDERS 2, 3, & 4 WHERE INDICATED.
 - EACH DECK PANEL SHOULD HAVE (2) CLIPS LOCATED AT THE PANEL JOINTS ON EVERY GIRDER. FURNISH & INSTALL ADDITIONAL CLIPS WHERE REQUIRED.
 - QUANTITIES SHOWN DO NOT INCLUDE ALLOWANCE FOR DAMAGE OR LOSS.

PROJECT SUMMARY										
SEGMENT	BENTS	NO. OF SPANS	STRINGERS PER SPAN	SEGMENT LENGTH	DECK PANELS	DECK CLIPS	CLIP FASTENERS		RETAINING BARS	ANCHOR BOLTS
							3/4x4 1/2 BOLT	3/4x4 3/4 BOLT		
A - APPROACH TRESTLE	1-11	10	5	600	80	800	0	1600	480	200
B - APPROACH TRESTLE	12-14	2	5	120	16	160	0	320	96	40
C - APPROACH TRANSITION	14-15	1	5	48	7	73	0	146	42	20
D - APPROACH TRANSITION	15-16	1	7	51	7	70	0	140	0	28
E - APPROACH TRANSITION	16-17	1	7	58	8	112	0	224	0	28
F - DOCK				127	42	478	956	0	0	0
G - TRANSFER BRIDGE				138	18	180	0	360	108	0
				TOTAL	1142	178	1873	956	2790	726
FURNISH										
DECK CLIP ASSEMBLIES						20				
DECK CLIP BOLT 4 1/2 LONG							956			
DECK CLIP BOLT 4 3/4 LONG								2790		
RETAINING BARS									726	
ANCHOR BOLTS - 1"Ø NUTS										20
ANCHOR BOLTS - 1"Ø JAM NUTS										316



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

EXISTING SITE PLAN & TYPICAL SECTION

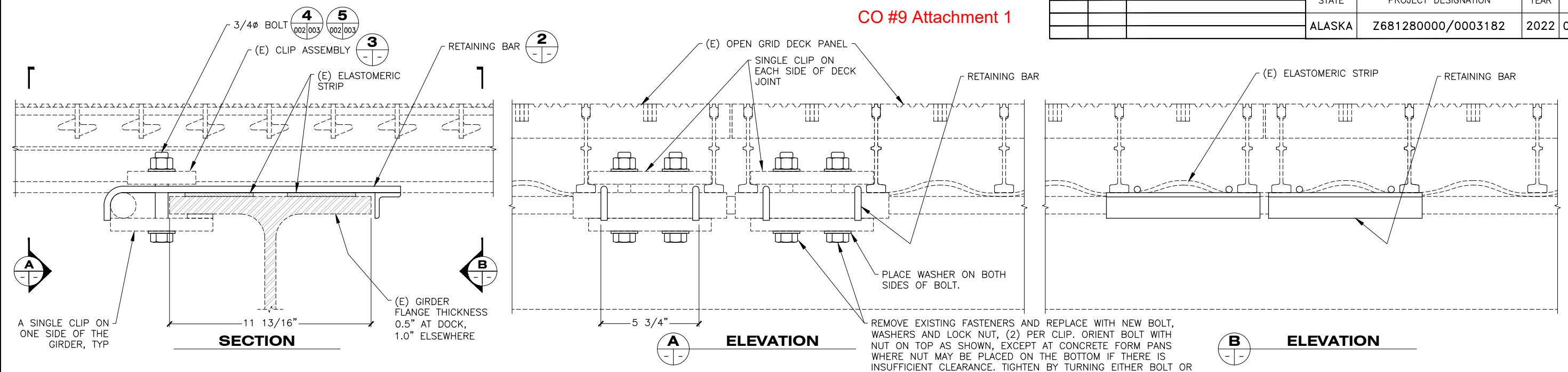
HH 10/01/2024

RFP #10

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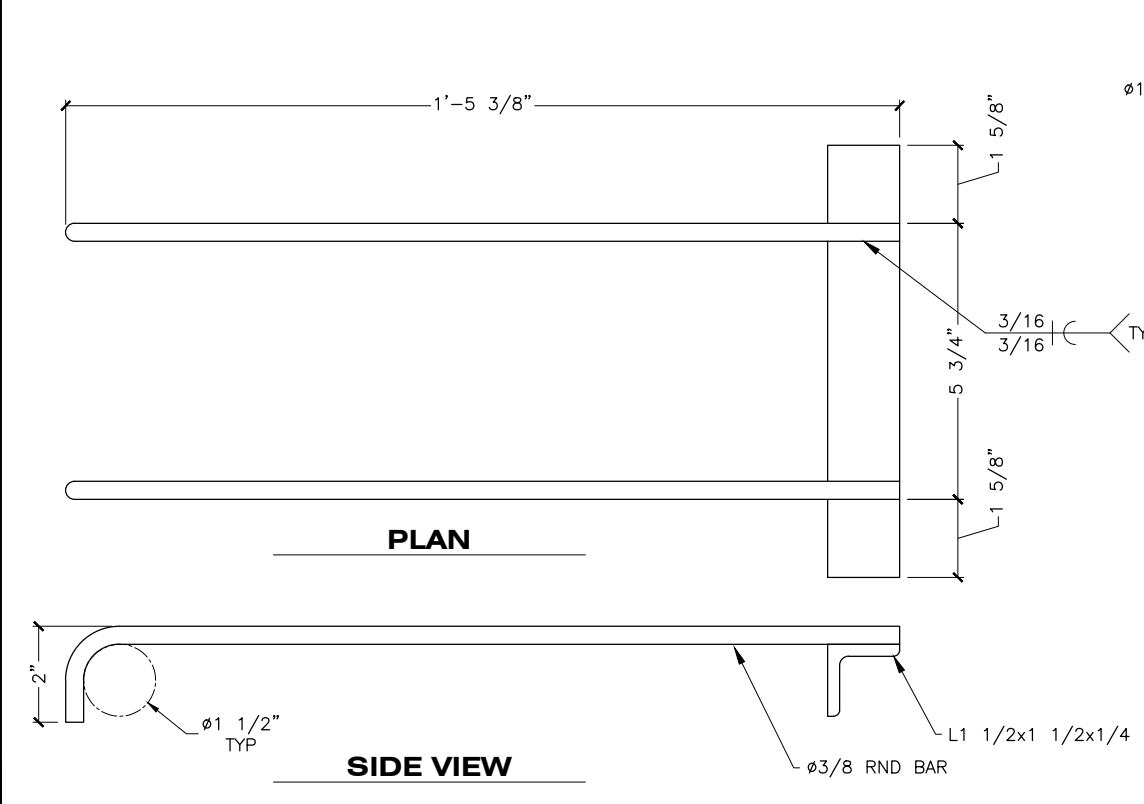
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2022	002A	4

CO #9 Attachment 1

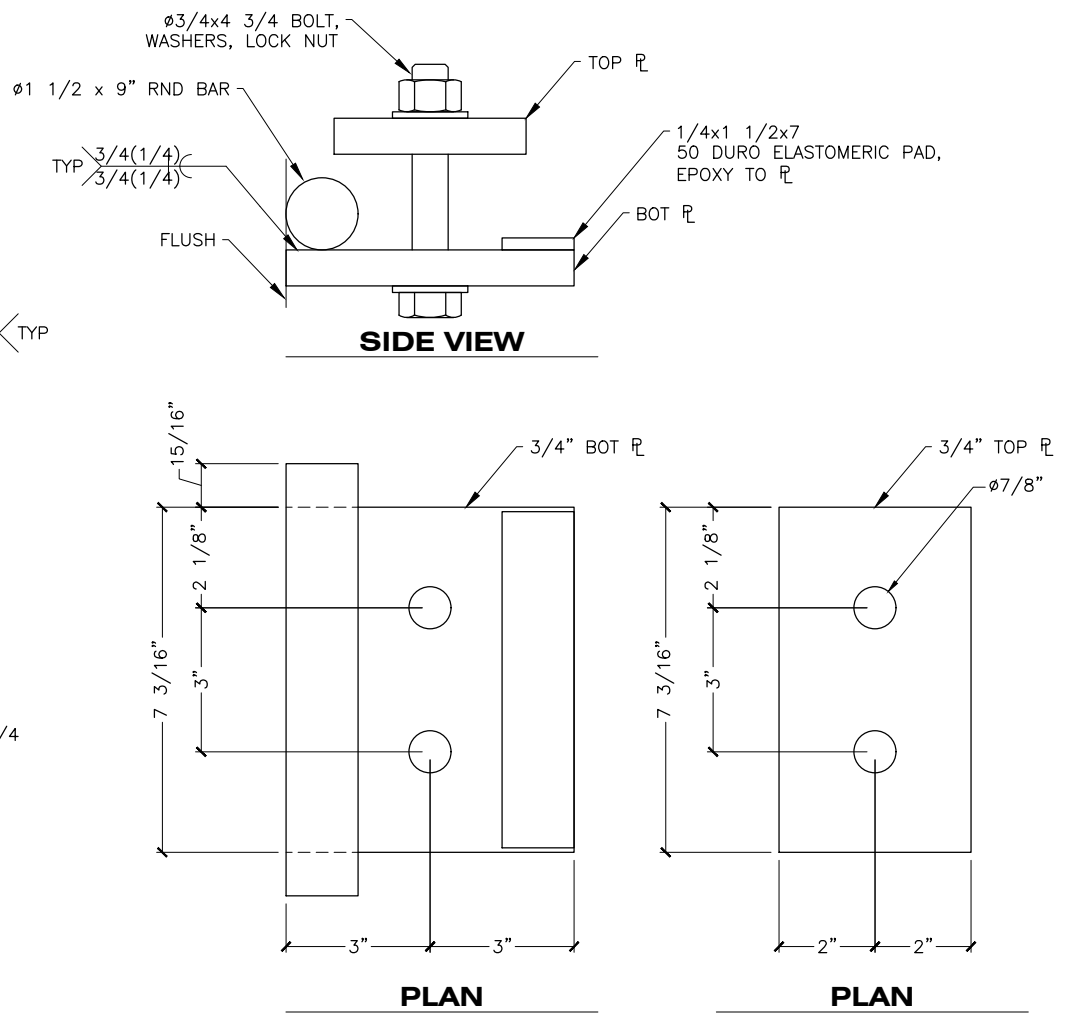


REMOVE EXISTING FASTENERS AND REPLACE WITH NEW BOLT, WASHERS AND LOCK NUT, (2) PER CLIP. ORIENT BOLT WITH NUT ON TOP AS SHOWN, EXCEPT AT CONCRETE FORM PANS WHERE NUT MAY BE PLACED ON THE BOTTOM IF THERE IS INSUFFICIENT CLEARANCE. TIGHTEN BY TURNING EITHER BOLT OR NUT UNTIL FAYING SURFACES ARE IN FIRM CONTACT AND THEN TIGHTENED BY FULL EFFORT WITH SPUD WRENCH OR FEW IMPACTS WITH IMPACT WRENCH.

1 DECK CLIP RETROFIT



2 RETAINING BAR ASSEMBLY
FURNISH (726 EA)



3 CLIP ASSEMBLY

FURNISH (20 SETS) TO REPLACE MISSING CLIPS OF THE APPROACH AND BRIDGE



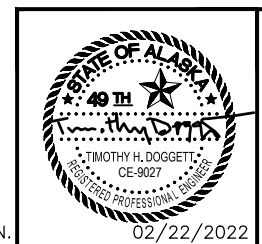
TYP CLIP ASSEMBLY

REFER TO IDSI SHOP DWG NO. ID-0859-09 FOR MORE DETAILS OF CLIP ASSEMBLY

- MATERIALS:**
 RND BAR - ASTM A108 GR1018 OR ASTM A36
 PLATE - ASTM A709 GR50
 BOLTS - ASTM F3125 GR A325
 LOCK NUTS - ASTM A563DH, PREVAILING TORQUE LOCK NUT TRI-LOC LOCKNUT OR APPROVED EQUAL
 WASHERS - ASTM F436
 ANGLE - ASTM A36

ALL COMPONENTS HOT DIP GALVANIZED AFTER FABRICATION, SEE SPECS.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH CLIP ASSEMBLY REPAIR

HH 10/01/2024

RFP #10

02/22/2022

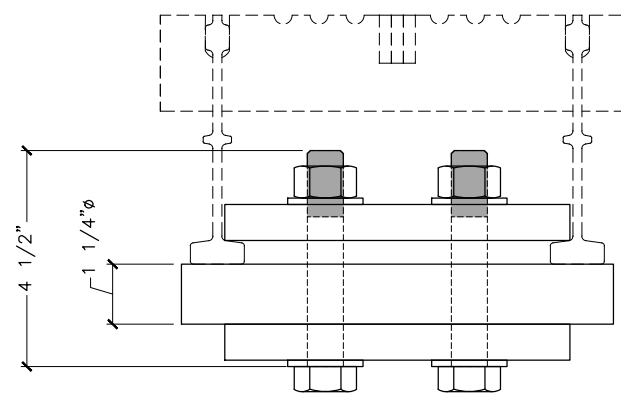
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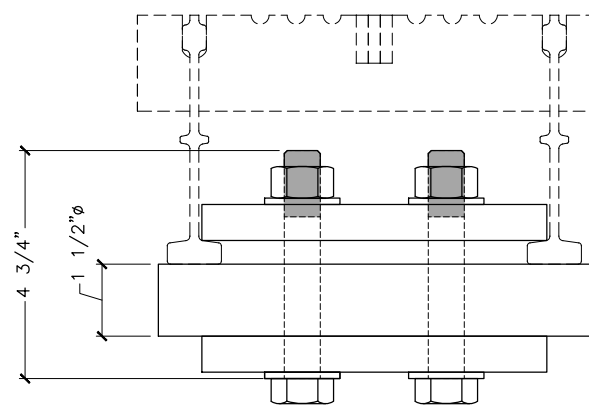


2 ANCHOR BOLT RETROFIT
001|003

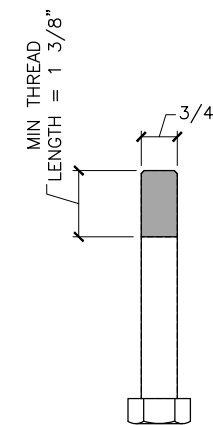
3 ANCHOR BOLT RETROFIT
001|003



4 SECTION
002|003 TYPICAL AT DOCK – SEGMENT F



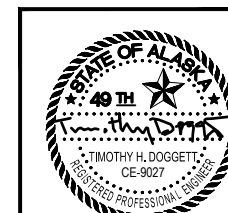
5 SECTION
002|003 TYPICAL AT APPROACH – SEGMENTS A–E AND BRIDGE – SEGMENT G



DETAIL
TYPICAL A325 BOLT

- GENERAL NOTES:
1. IF THREAD STICKUP IS TOO SHORT TO ENGAGE JAM NUT, SCORE THREADS TO PREVENT NUT LOOSENING.
 2. ANCHOR BOLT HEX NUTS AND HEX JAM NUTS ARE 1"Ø ASTM A563DH, HDG.

RFP #10

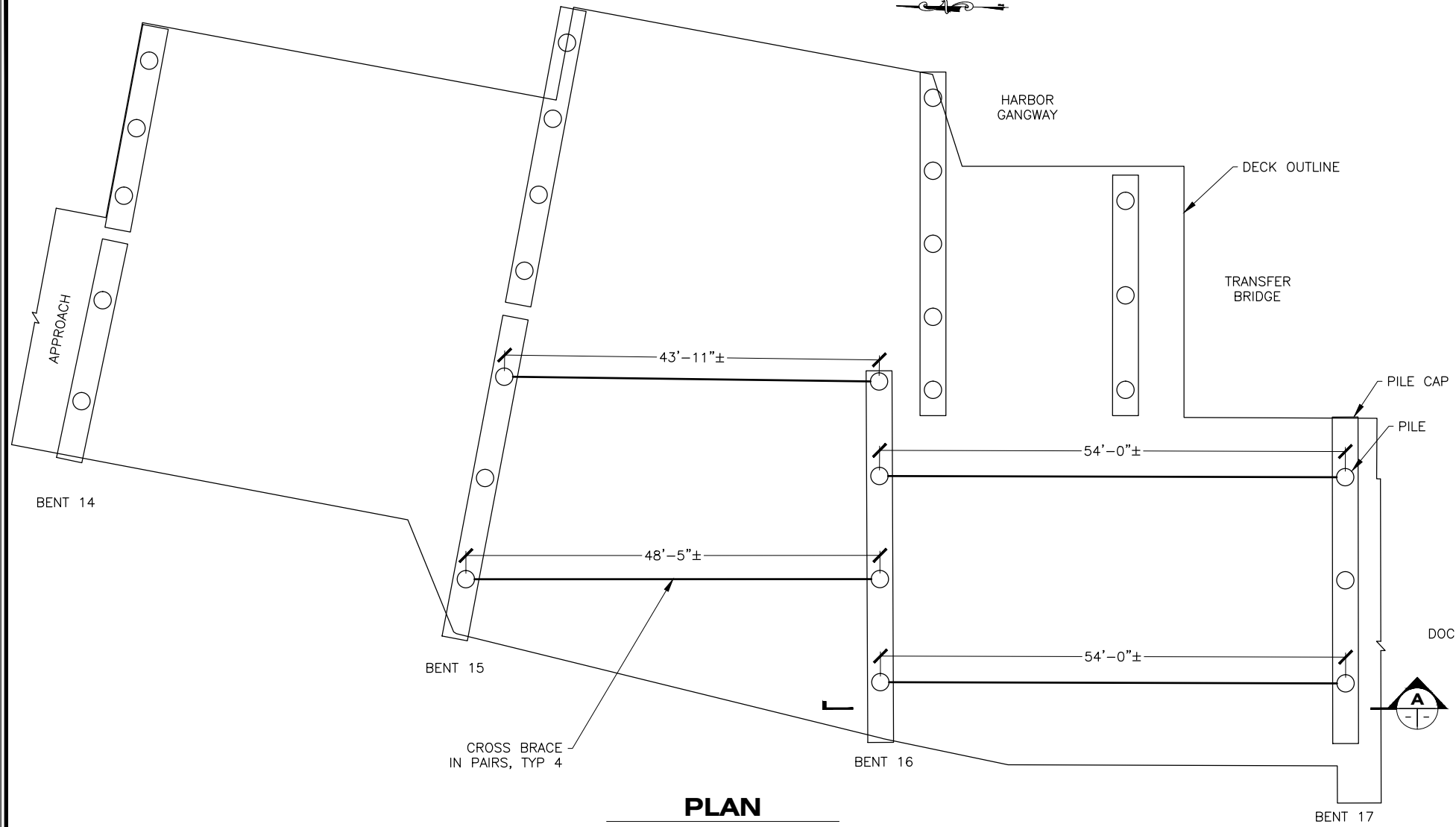


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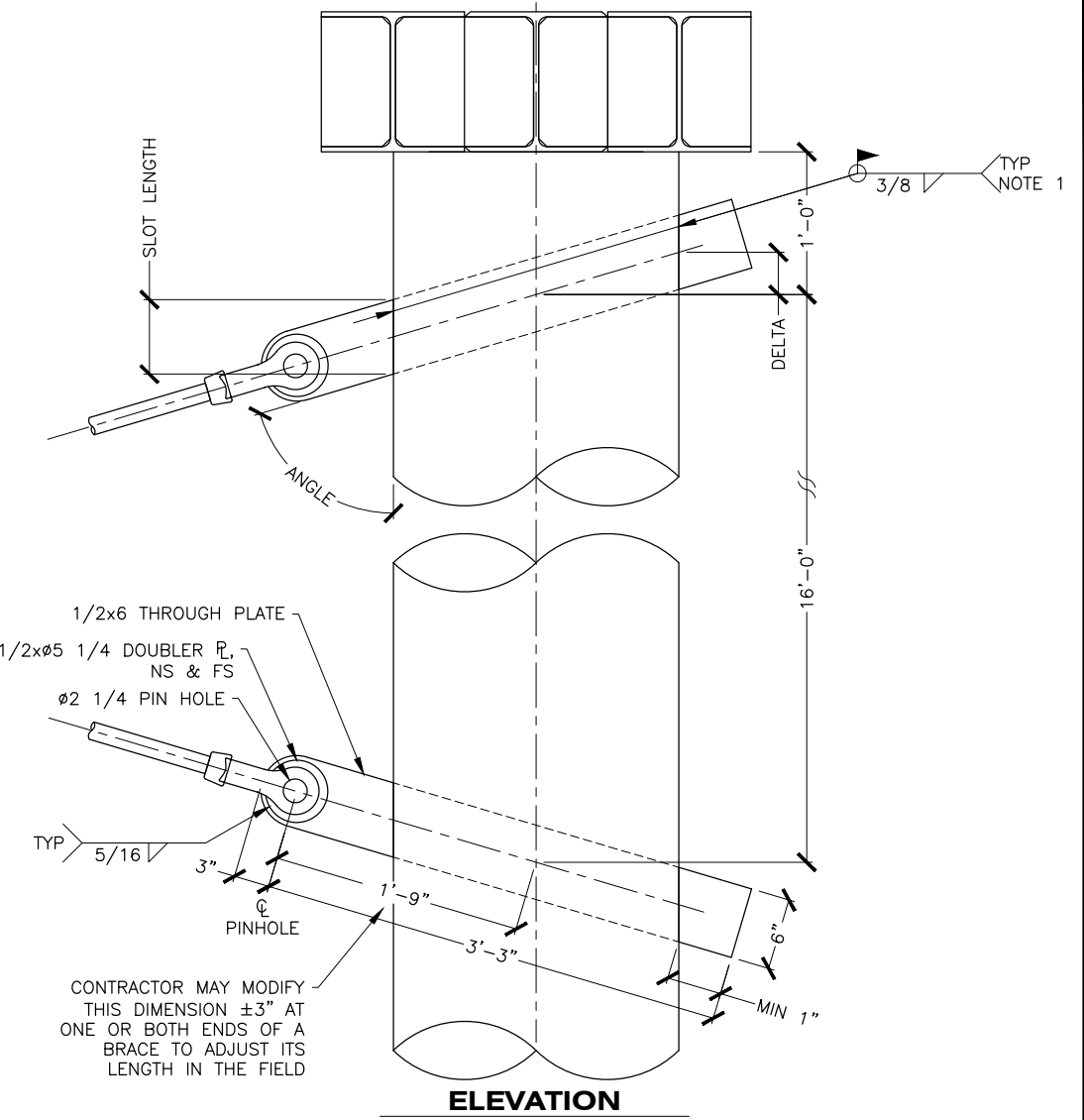
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ANCHOR BOLT RETROFIT
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2022	004 A	4



PLAN
APPROACH TRANSITION



ELEVATION

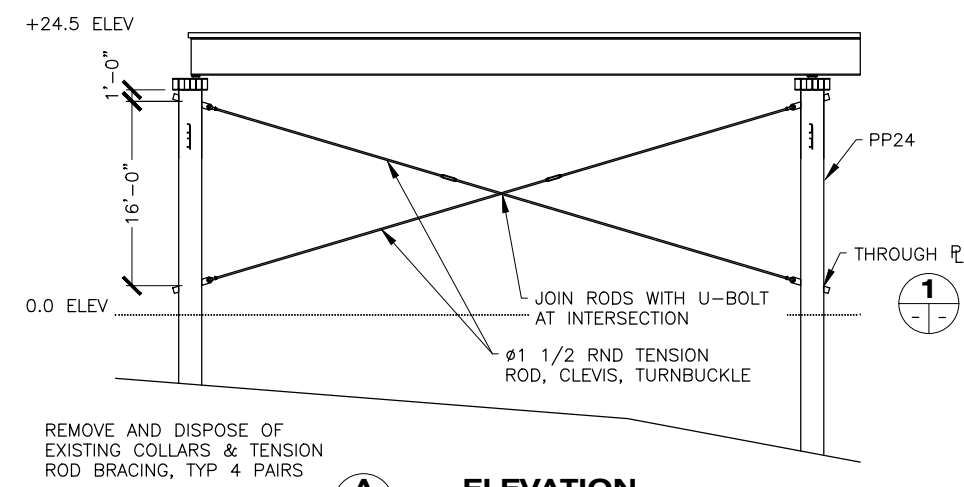
	QTY (PAIRS)	CL PILE TO CL PILE REFER TO NOTE 2	CLEVIS PIN TO CLEVIS PIN	ANGLE	DELTA	SLOT LENGTH
BENT 16 TO 17	2	54' - 0"	52' - 9 7/8"	73.5	3-9/16"	6-1/4"
BENT 15 TO 16	1	43' - 11"	43' - 2 7/8"	70.0	4-3/8"	6-3/8"
BENT 15 TO 16	1	48' - 5"	47' - 5 7/8"	71.7	3-15/16"	6-5/16"

MATERIALS: DOMESTIC, FURNISH CERTIFIED MAT'L TEST REPORTS PER SECTION 504-2.02

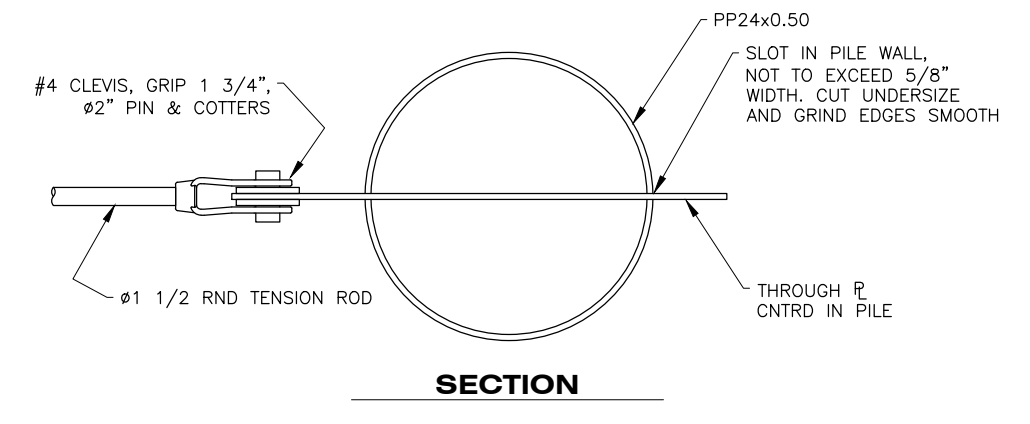
TENSION ROD - ROUND ROD, ASTM A36. Fy MUST NOT EXCEED 50 KSI
 CLEVIS - ASTM A668
 PIN - ASTM 108 GR1016-1030 Fy=33 KSI, COTTER PINS 316 STAINLESS
 TURNBUCKLE - MIN STRENGTH EQUALS CLEVIS
 PLATE - A709 GR 50

ALL COMPONENTS HOT DIP GALVANIZED AFTER FABRICATION

- NOTES:
- REMOVE GALVANIZE COATING MIN 1" BEYOND EDGE OF WELD AND REPAIR DAMAGED COATING PER SECTION 504-3.03 AFTER WELDING. DIMENSIONS ARE BASED ON AS-BUILT PLANS AND THOSE PLANS MAY NOT SHOW EXISTING DIMENSIONS AND CONDITIONS. FIELD VERIFY CONTROLLING DIMENSIONS AND ADJUST PLAN DIMENSIONS TO FIT EXISTING CONDITIONS PRIOR TO FABRICATION.



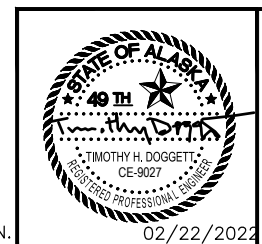
ELEVATION



SECTION

1 THROUGH PLATE

RFP #10



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH TRANSITION LONGITUDINAL BRACING

HH 10/01/2024

02/22/2022

FILE Q:\ous\68128\VF\DESIGN\THD\BRACING, CLIP & RAILING REPAIR\LONG BRACING\DWG\LONGITUDINAL BRACING.dwg/22/2022 12:10 LAYOUT 004 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

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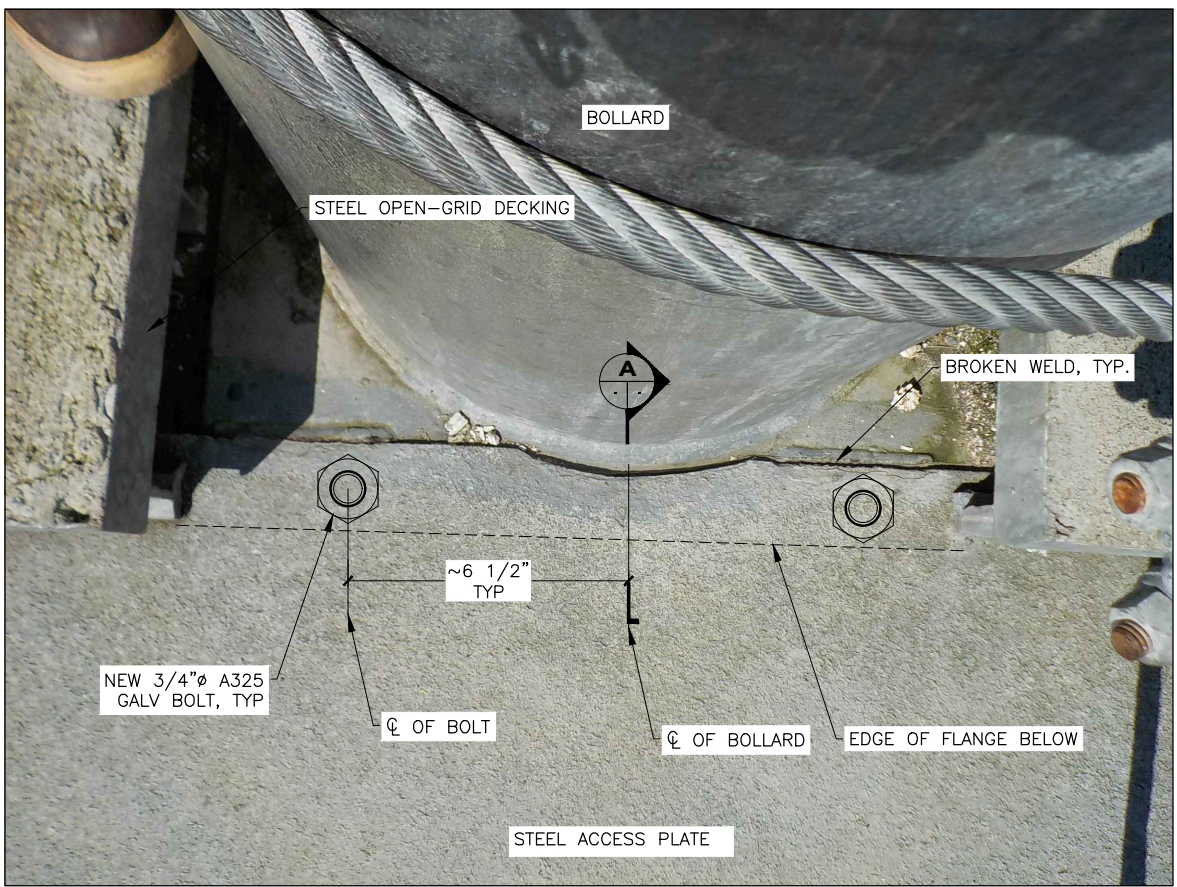
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			ALASKA	Z681280000/0003182	2022	1AA	1



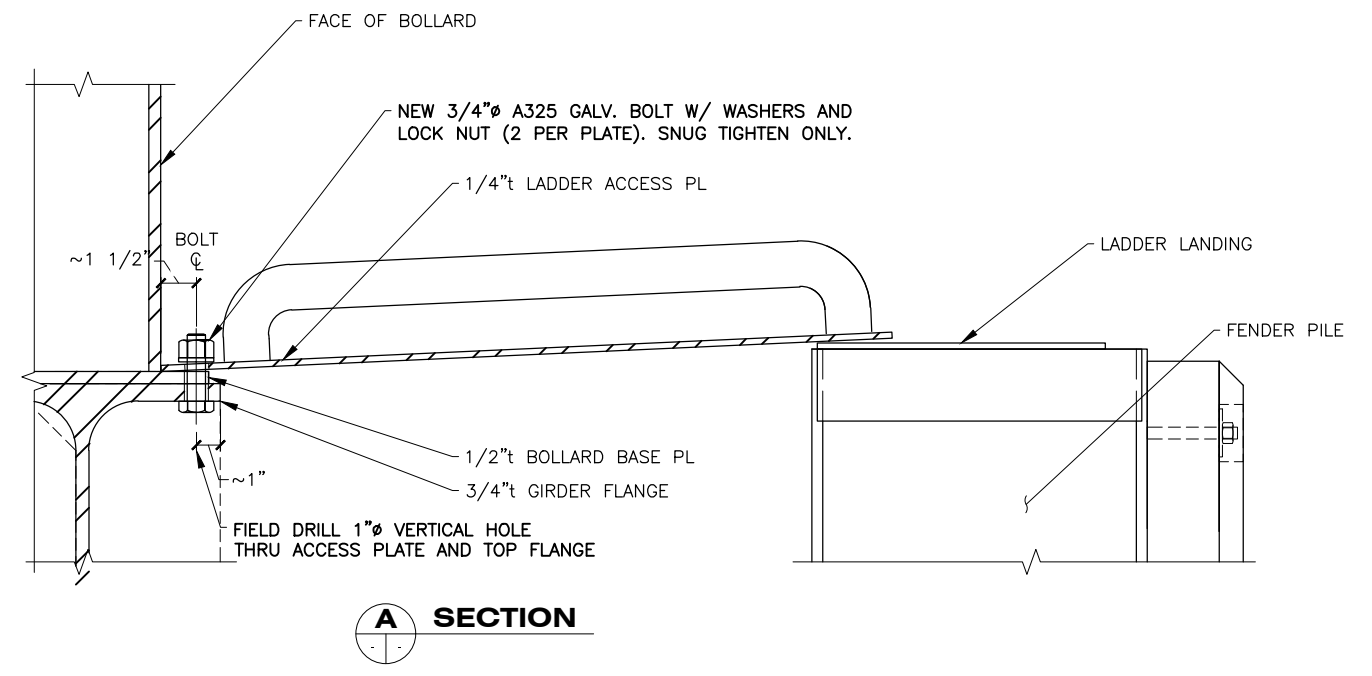
FREIGHT DOCK - LADDER ACCESS PLATE

NOTES:
 1. MODIFY ACCESS PLATES AT FOUR LOCATIONS ON THE FACE OF THE FREIGHT DOCK.
 2. EXISTING WELDS AT PLATES DO NOT NEED TO BE CUT OR REMOVED BEFORE DRILLING HOLES AND INSTALLING THE BOLTS.
 3. REFERENCE SPECIAL PROVISION SECTION 504 FOR MATERIAL AND COATING REQUIREMENTS.

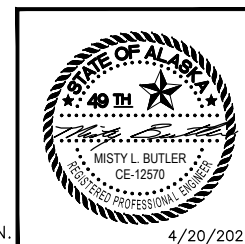
CO# 10



PLAN VIEW AT SEAWARD FACE OF BOLLARD



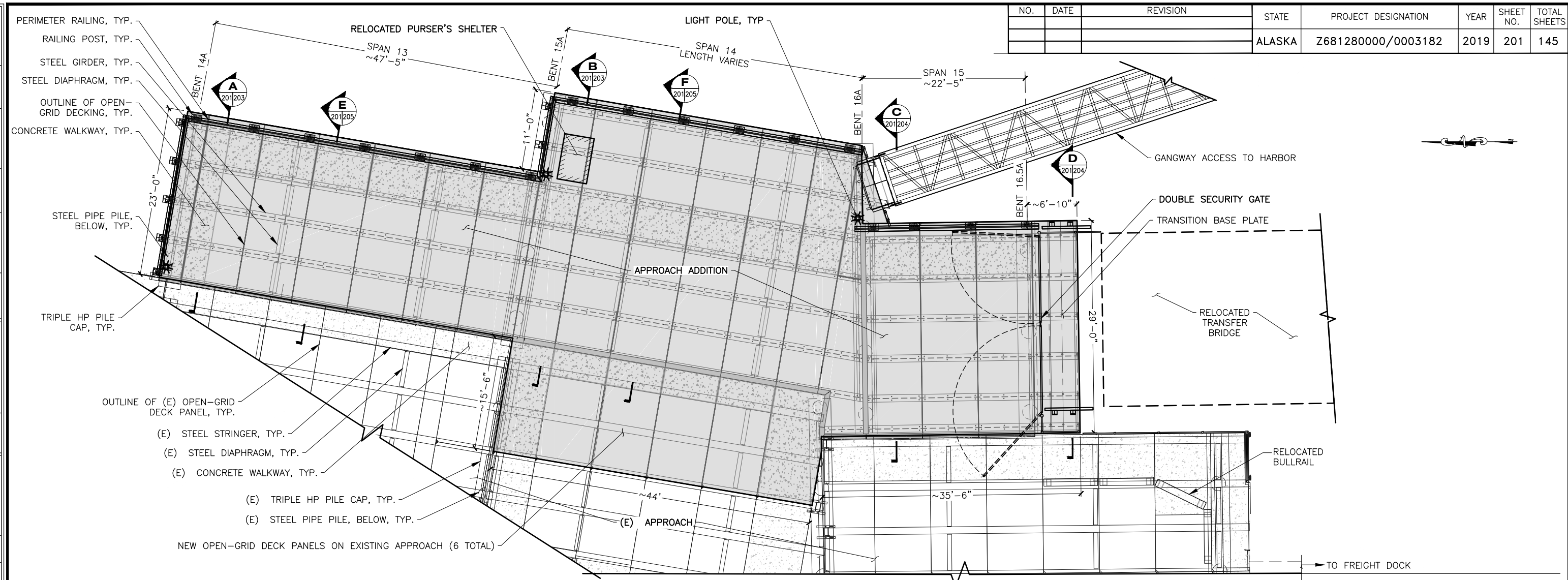
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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 GUSTAVUS FERRY TERMINAL IMPROVEMENTS
 FREIGHT DOCK - ACCESS LADDER PLATE REPAIR
 HH 10/01/2024

4/20/2021

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	201	145



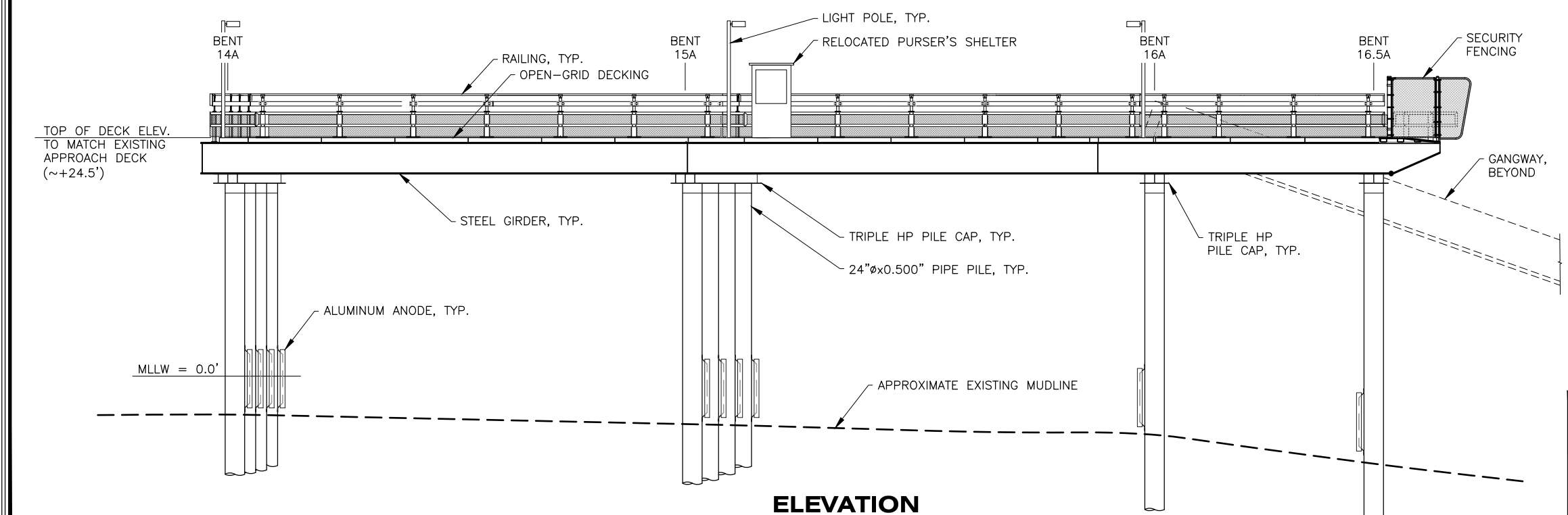
PLAN

LEGEND

- NEW STRUCTURES
- CONCRETE FILLED-OPEN GRID DECKING

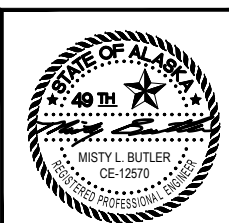
DESIGN CRITERIA

DEAD LOAD: WEIGHT OF ALL CONSTRUCTION MATERIALS
LIVE LOAD: ASCE 250PSF UNIFORM LOAD
VEHICLE LOAD: AASHTO HL-93
AASHTO TANDEM + DESIGN LANE
80PSF UNIFORM LOAD
SNOW LOAD: AASHTO 100MPH BASIC WIND SPEED
OPEN COUNTRY
WIND: AASHTO 100MPH BASIC WIND SPEED
OPEN COUNTRY
WAVE: 7 MILE FETCH
12FT MAX WAVE HEIGHT
127FT WAVE LENGTH
T=5 SECOND PERIOD
SEISMIC: AASHTO SITE CLASS E
SEISMIC ZONE 4



ELEVATION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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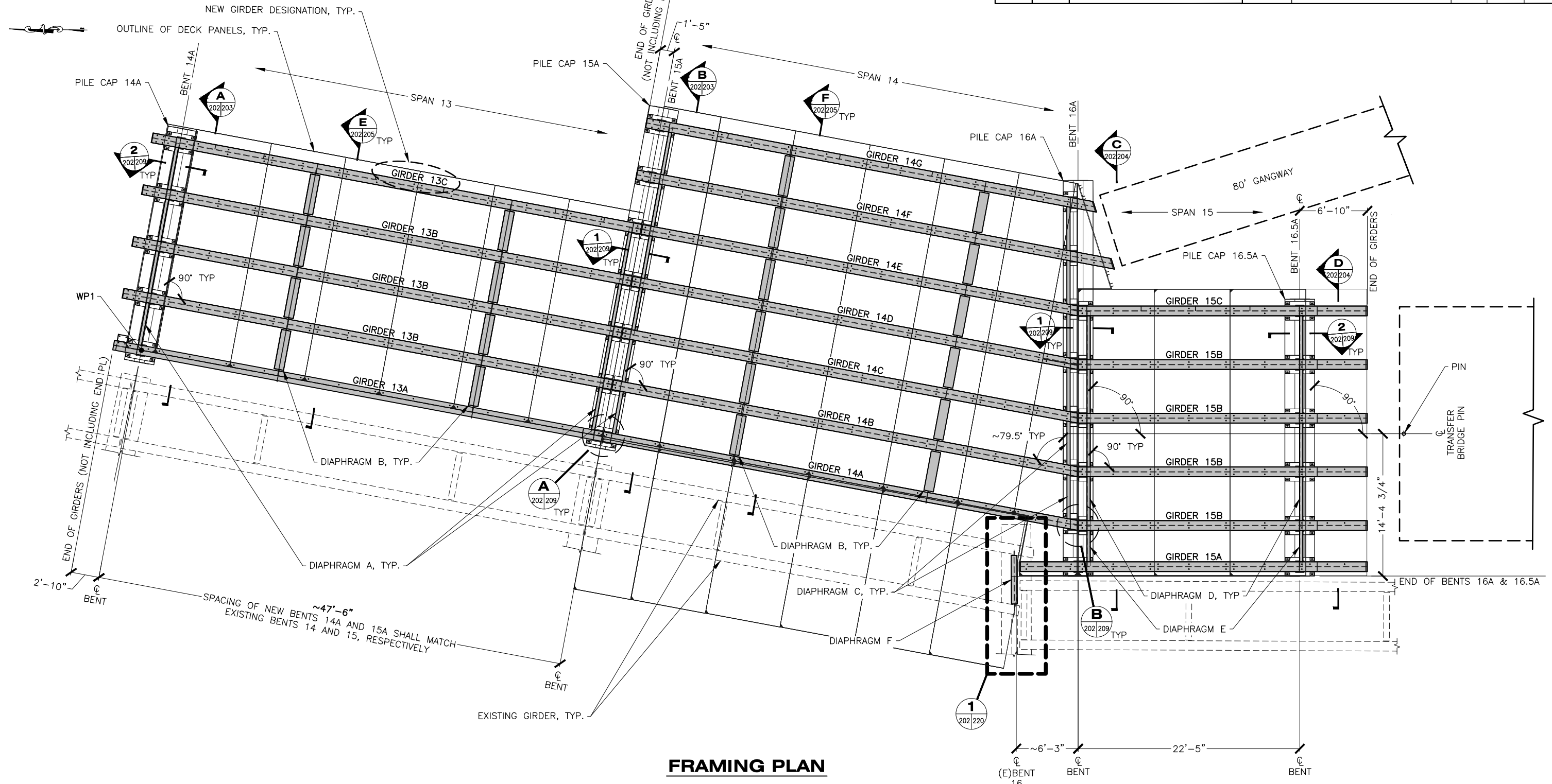
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION LAYOUT

HH 10/01/2024

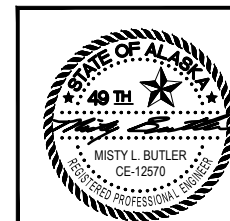
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	202	145



FRAMING PLAN

NOTE: ALL GIRDERS AND PILE CAPS ARE REDUNDANT, MAIN LOAD CARRYING MEMBERS (DESIGNATED AS "T"). THE STEEL FOR THESE COMPONENTS SHALL RECEIVE CHARPY V-NOTCH TESTING PER THE GENERAL NOTES ON SHEET 002.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION FRAMING PLAN

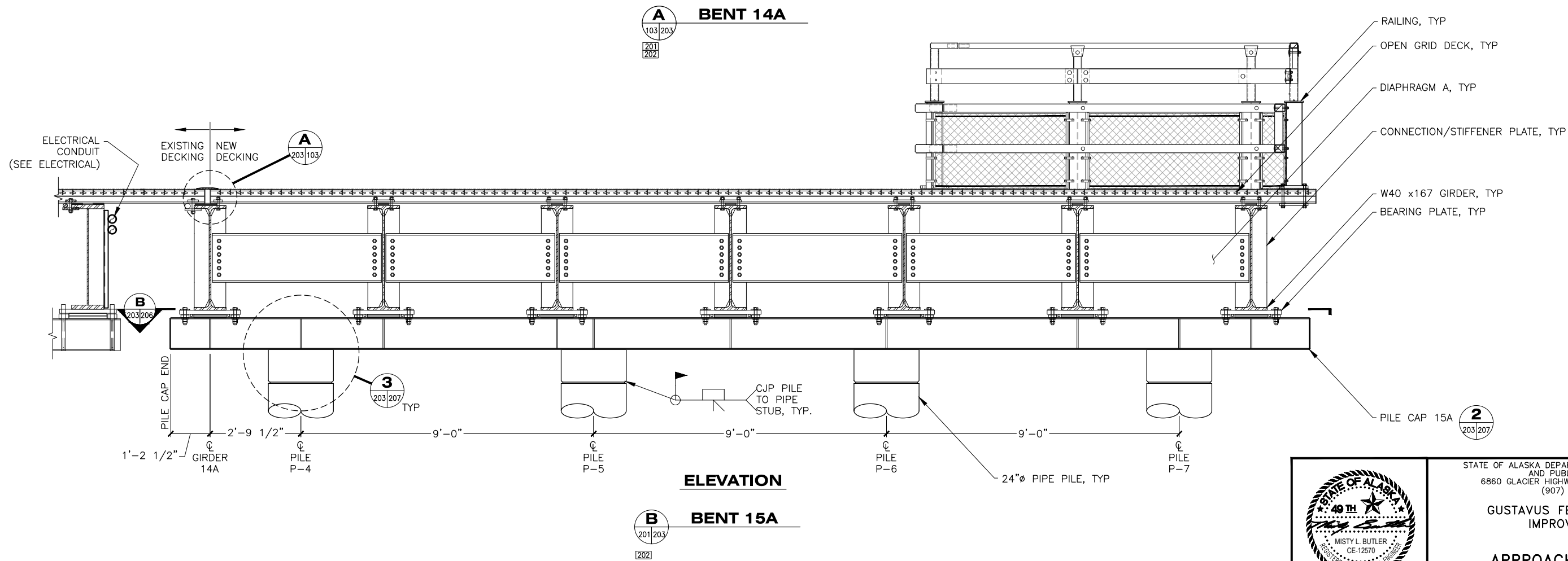
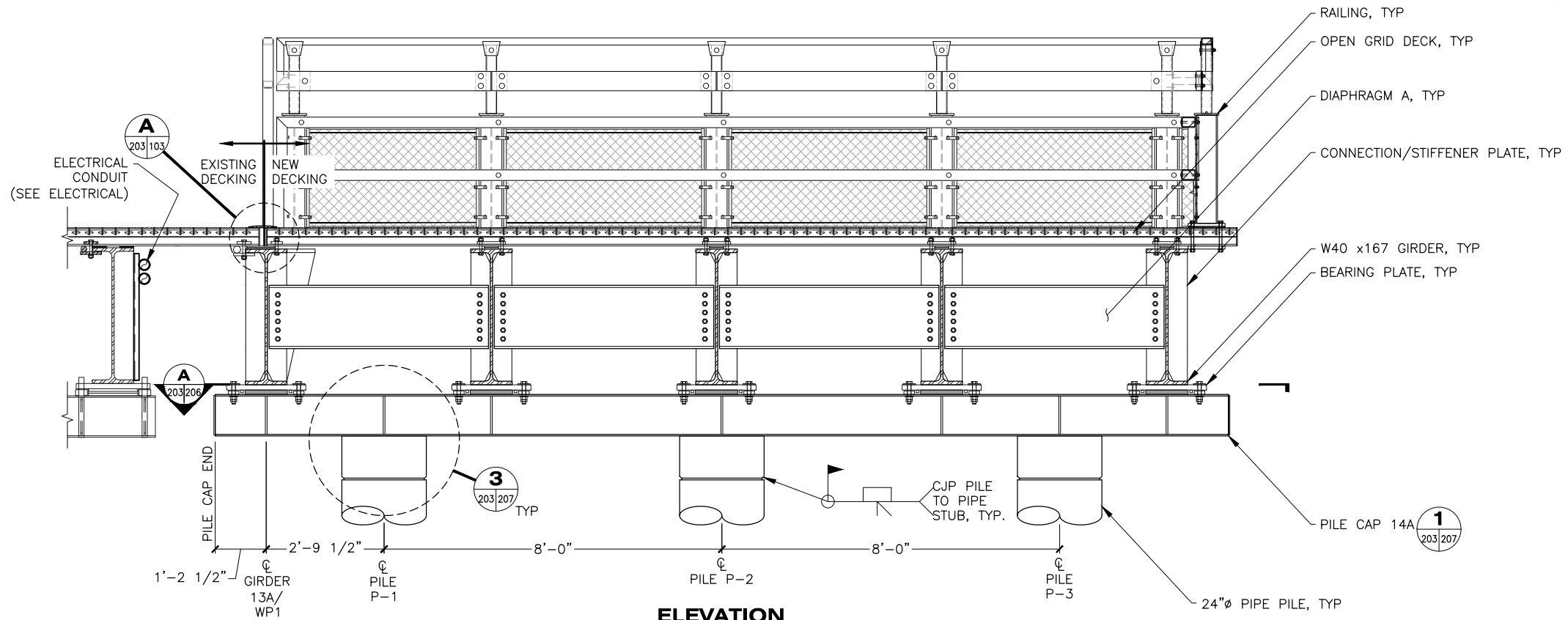
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3/18/2019

HH 10/01/2024

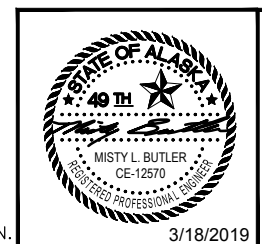
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	203	145



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 CHECKED: STAFF
 DRAFTED: STAFF

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

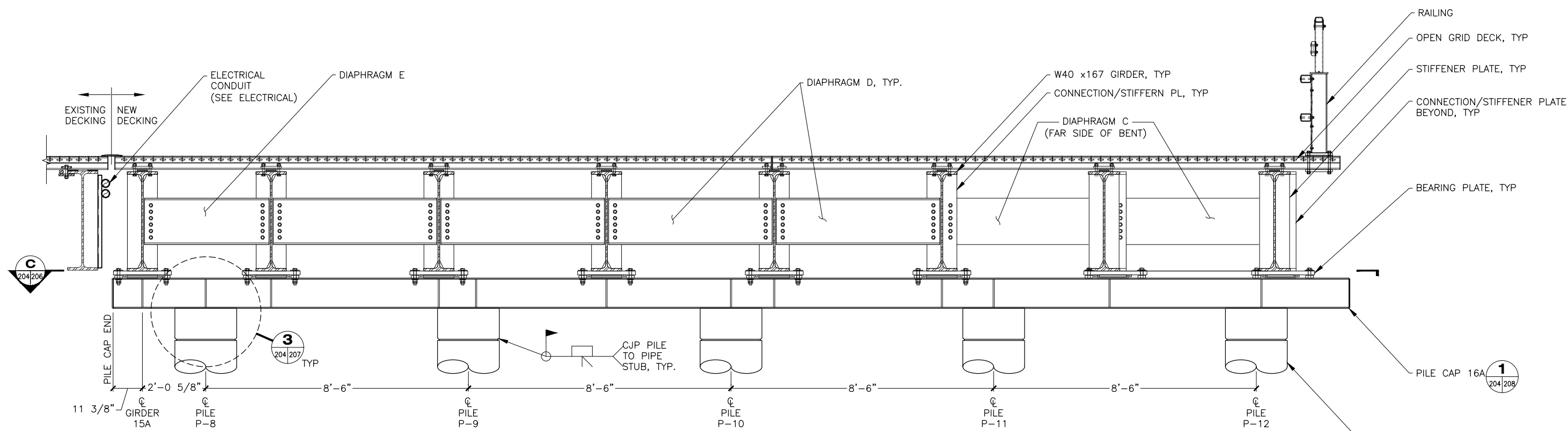
APPROACH ADDITION PILE CAP ELEVATIONS

HT 10/01/2024

3/18/2019

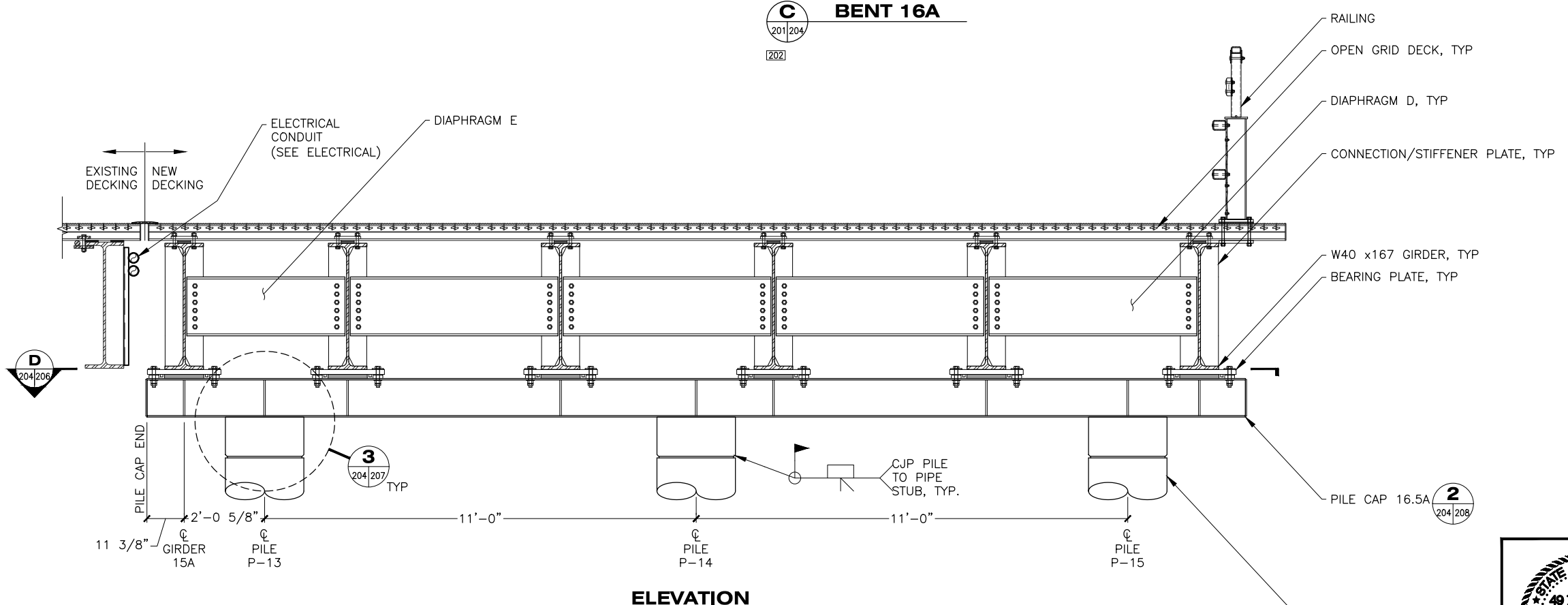
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			ALASKA	Z681280000/0003182	2019	204	145

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ELEVATION
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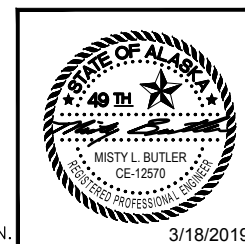
C
201|204
202



ELEVATION
BENT 16.5A

D
201|204
202

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



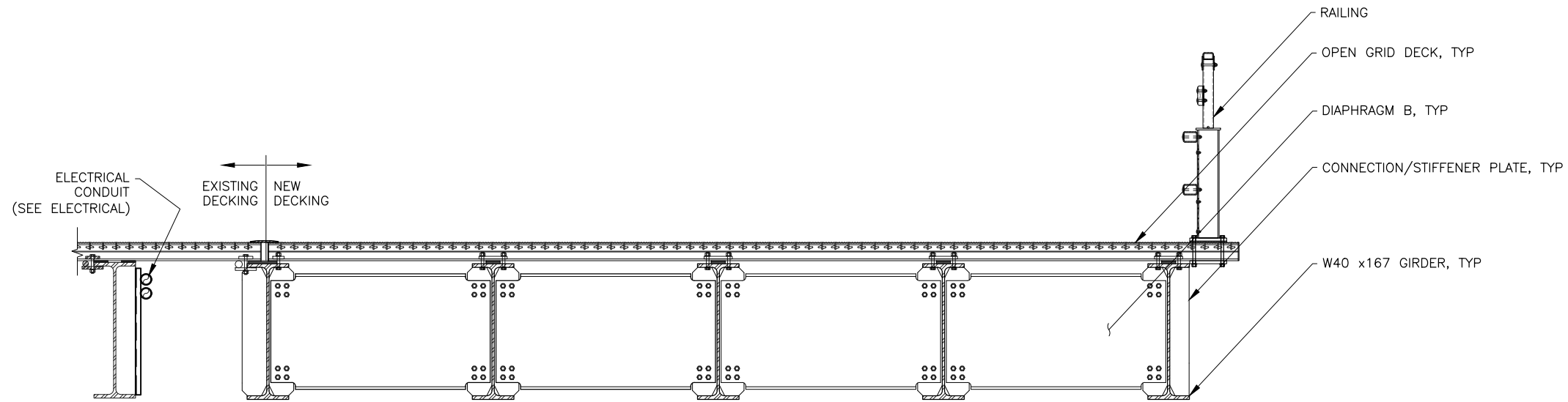
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

APPROACH ADDITION
PILE CAP ELEVATIONS

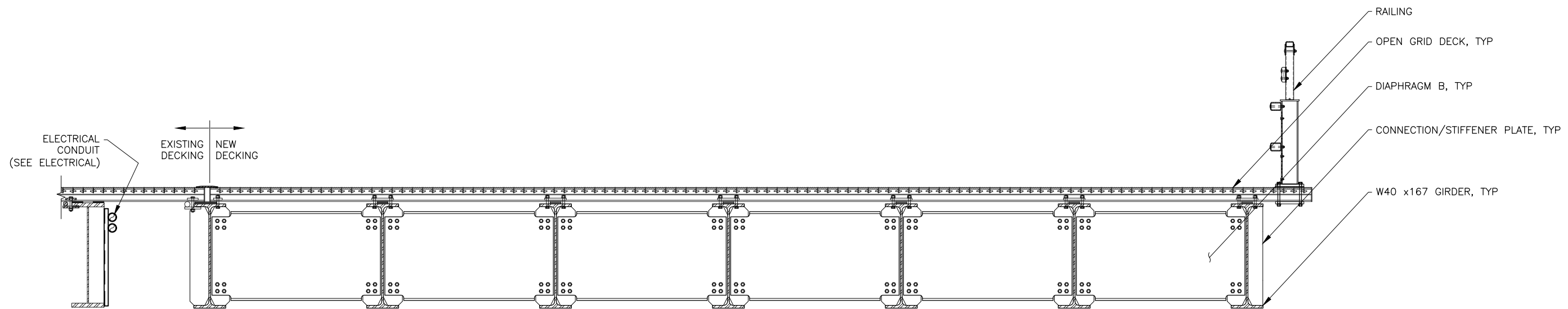
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	205	145



ELEVATION

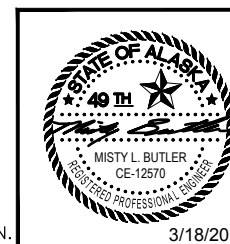
E SPAN 13
 201 205
 202



ELEVATION

F SPAN 14
 201 205
 202

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

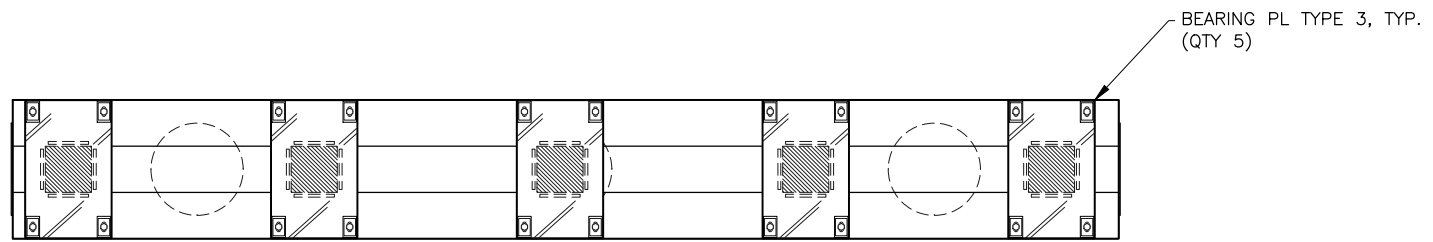
APPROACH ADDITION PILE CAP ELEVATIONS

HH 10/01/2024

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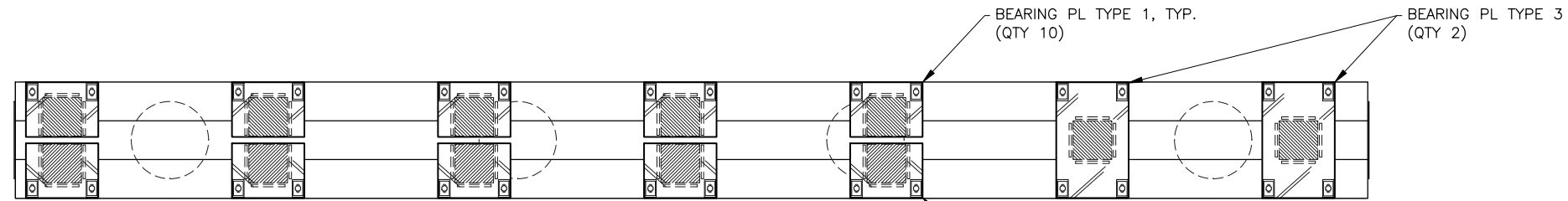
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	206	145



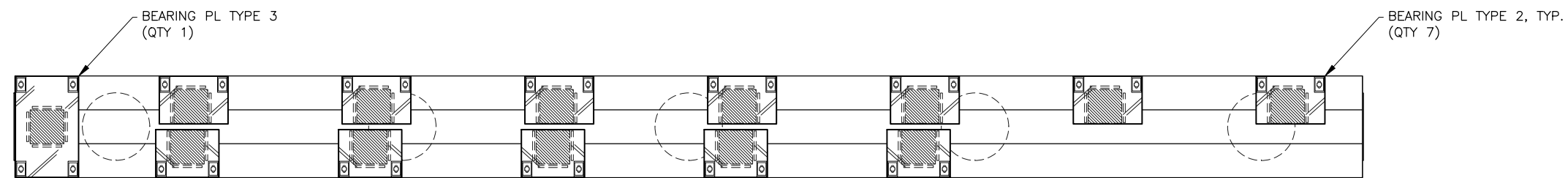
PLAN

A PILE CAP 14A
203/206



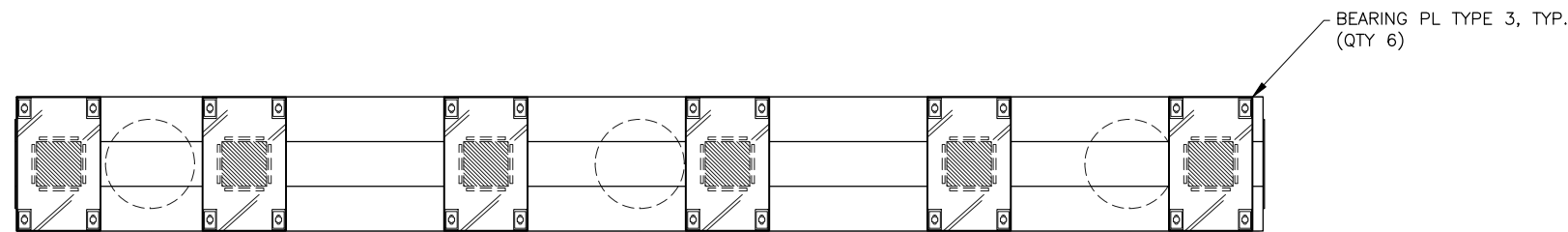
PLAN

B PILE CAP 15A
203/206



PLAN

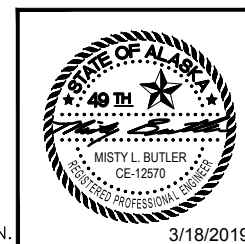
C PILE CAP 16A
204/206



PLAN

D PILE CAP 16.5A
204/206

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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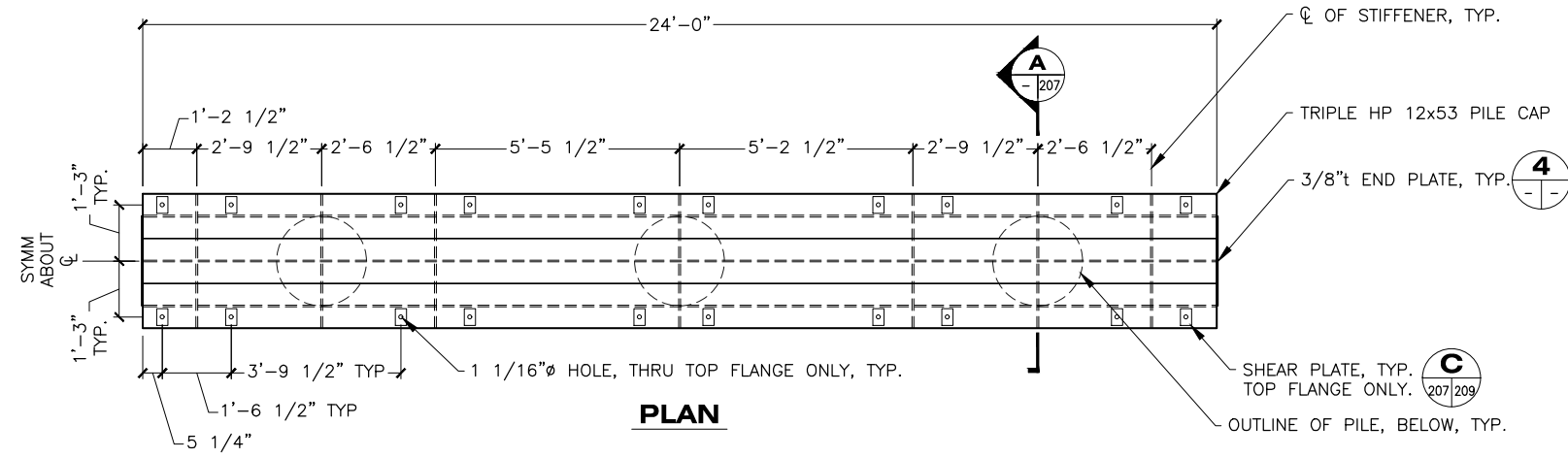
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION BEARING PLATE LOCATIONS

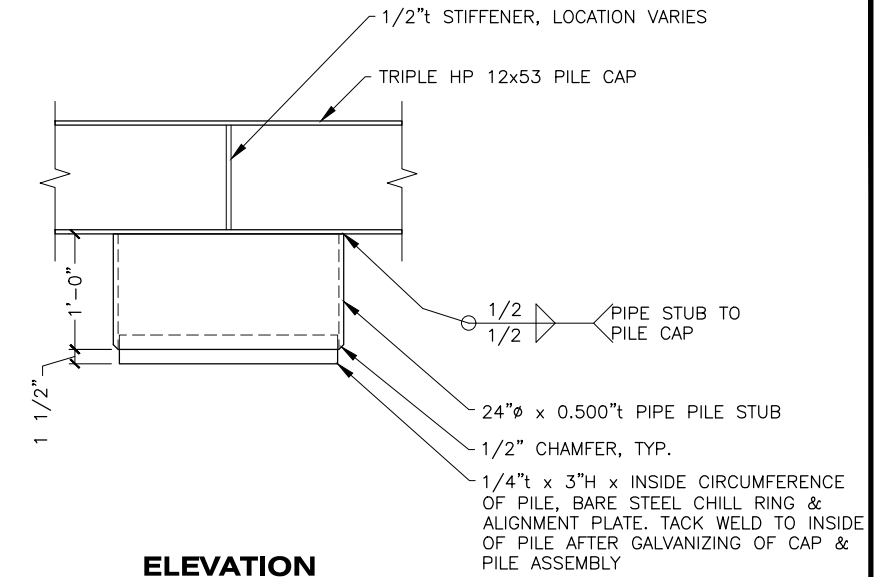
3/18/2019

HH 10/01/2024

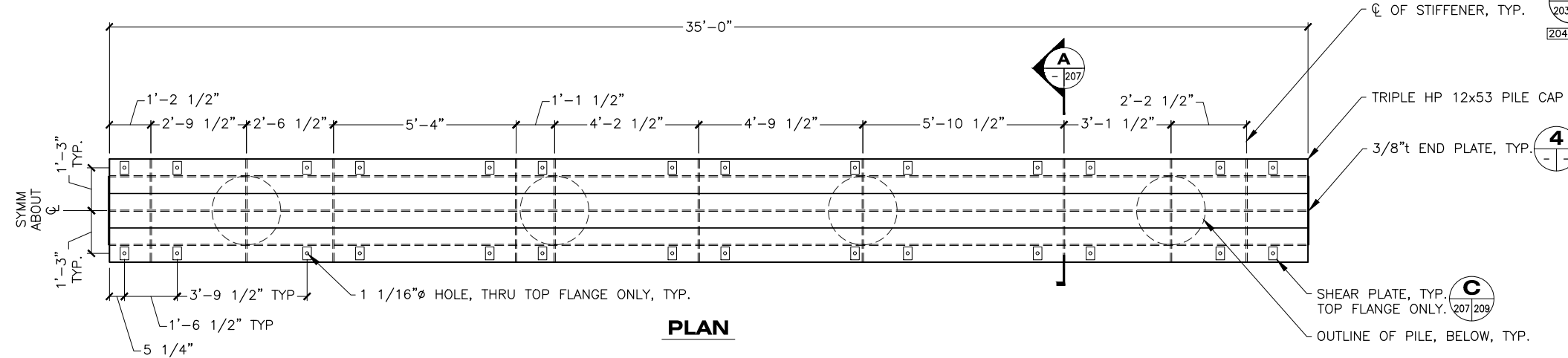
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	207	145



1 PILE CAP 14A
203/207

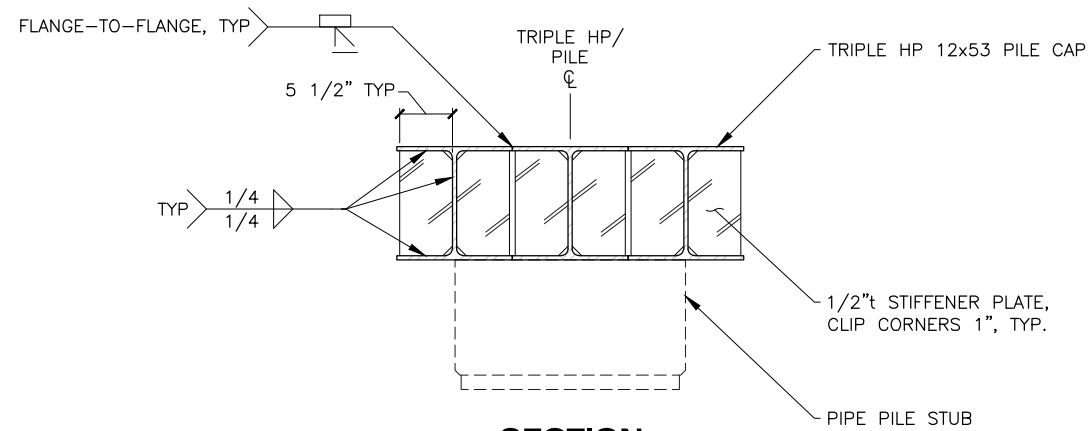


ELEVATION

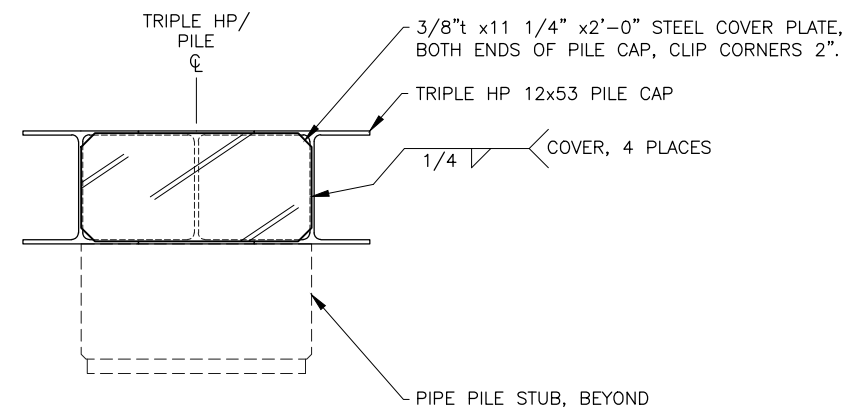


2 PILE CAP 15A
203/207

3 TYP PIPE STUB CONNECTION
203/207
204



A STIFFENER DETAIL
207
208



4 END PLATE
207
208

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION PILE CAP DETAILS

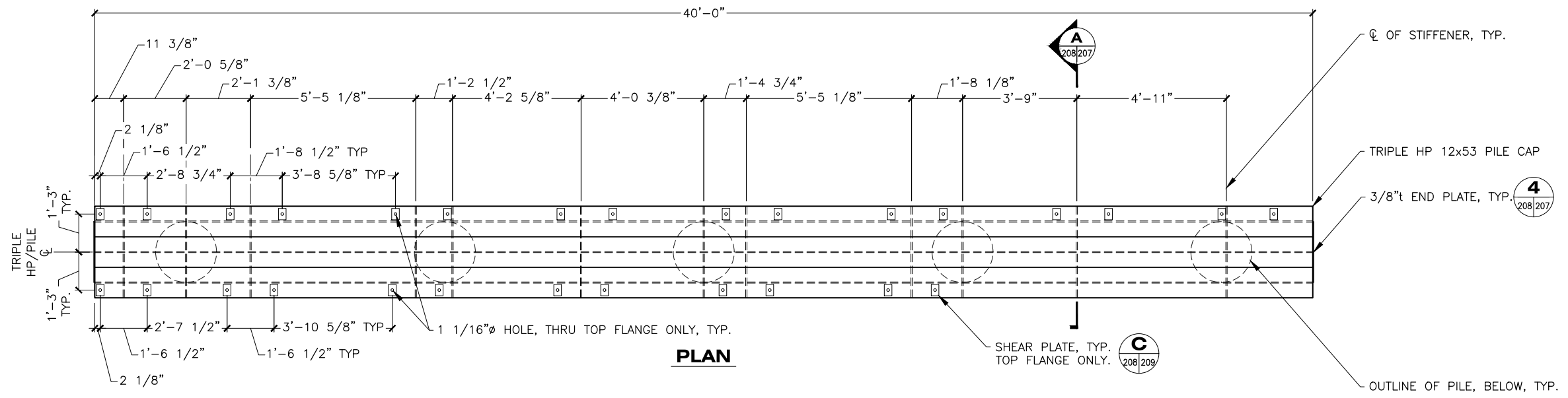
3/18/2019

HH 10/01/2024

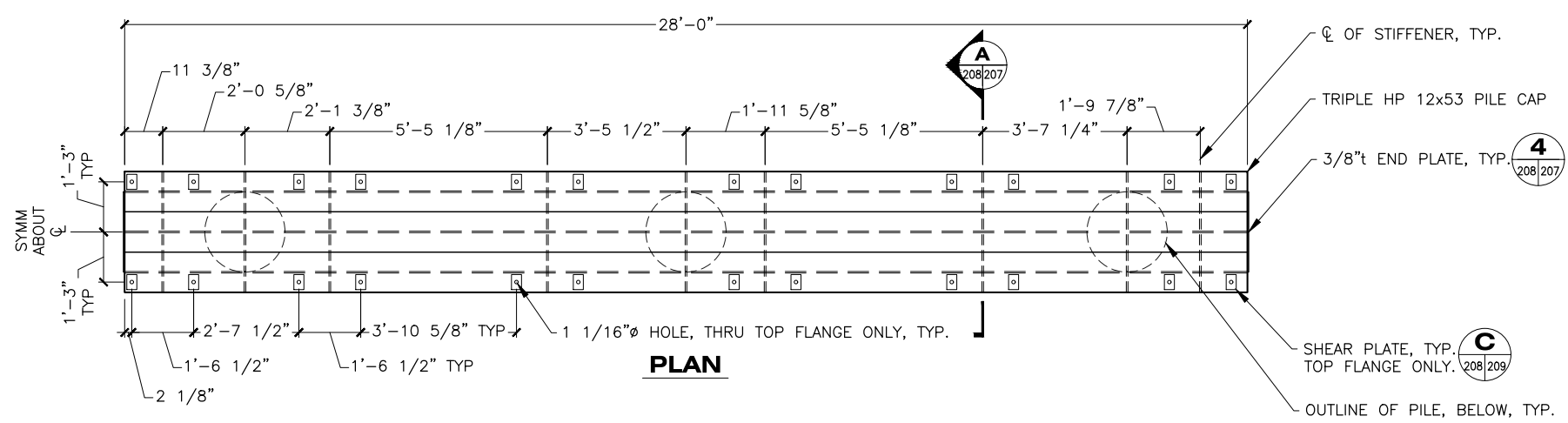
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	208	145

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 CHECKED: STAFF
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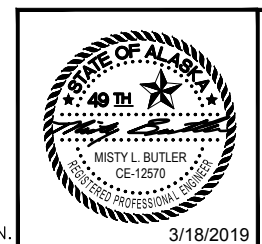


1 PILE CAP 16A
204/208



2 PILE CAP 16.5A
204/208

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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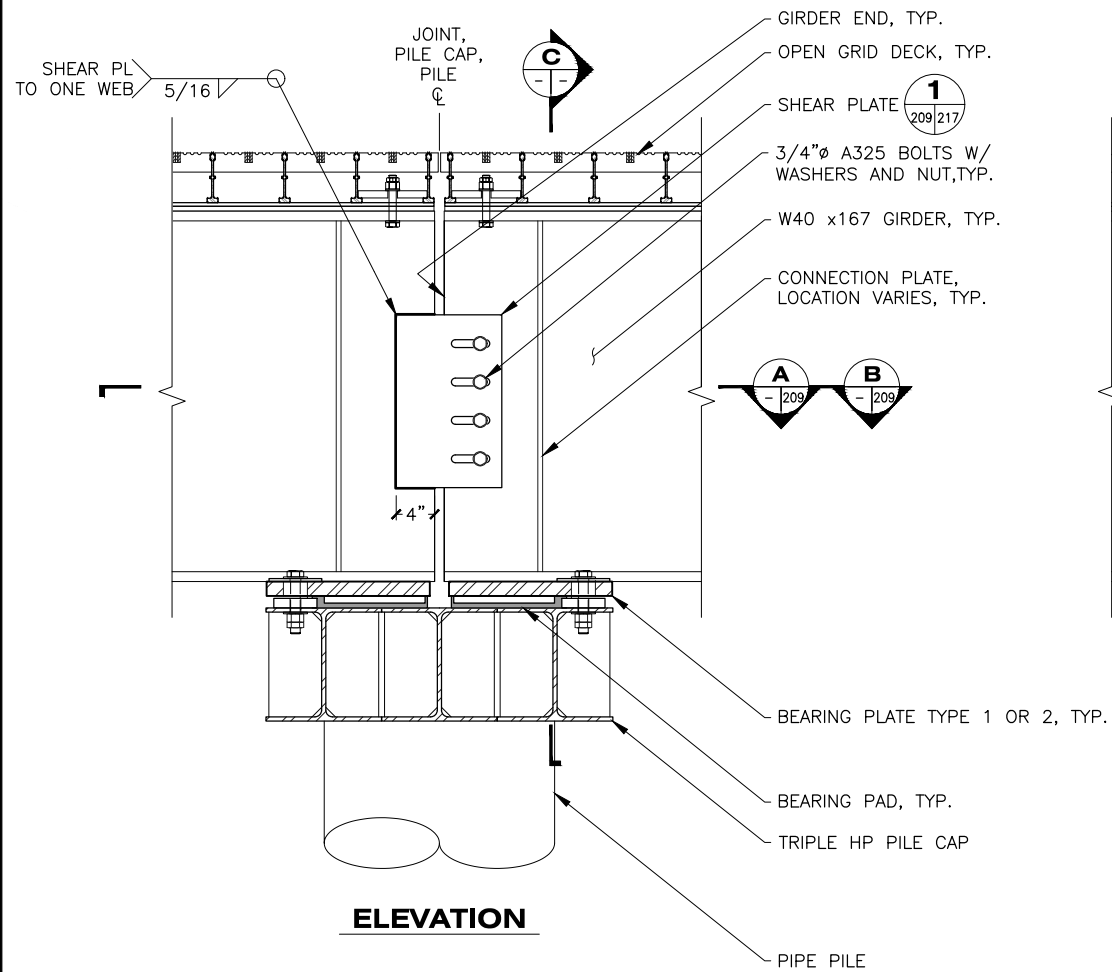
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION PILE CAP DETAILS

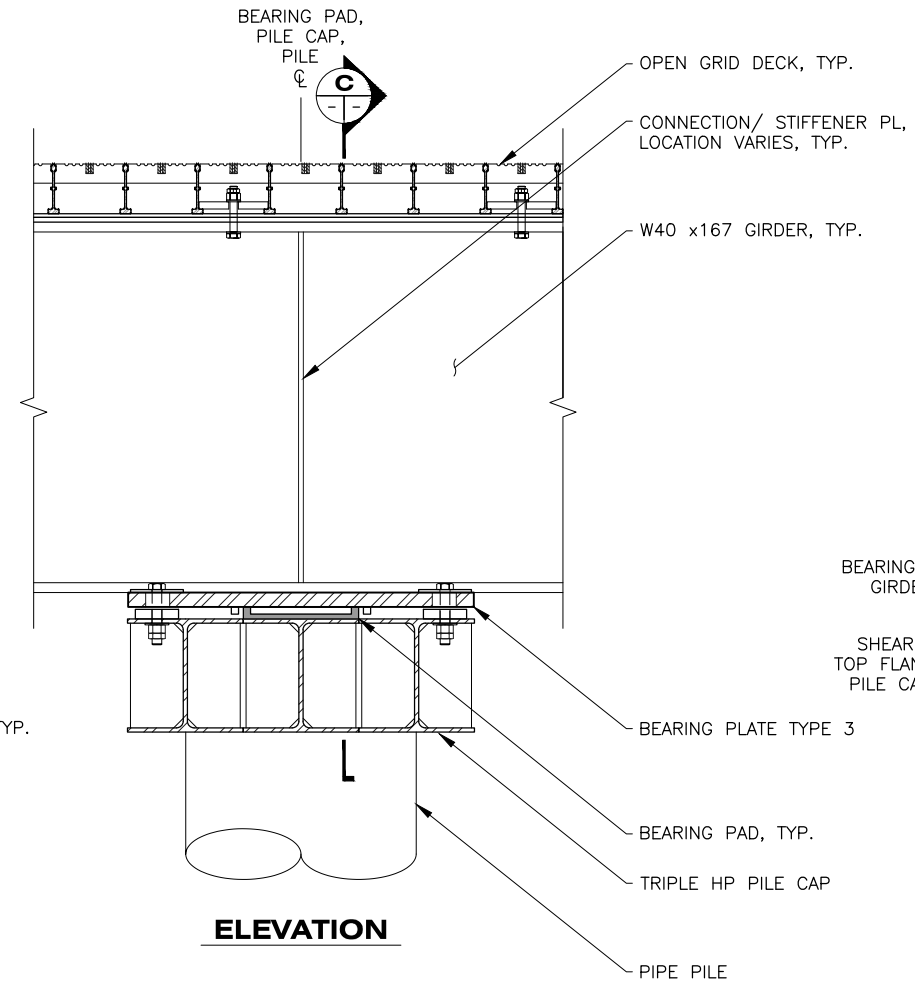
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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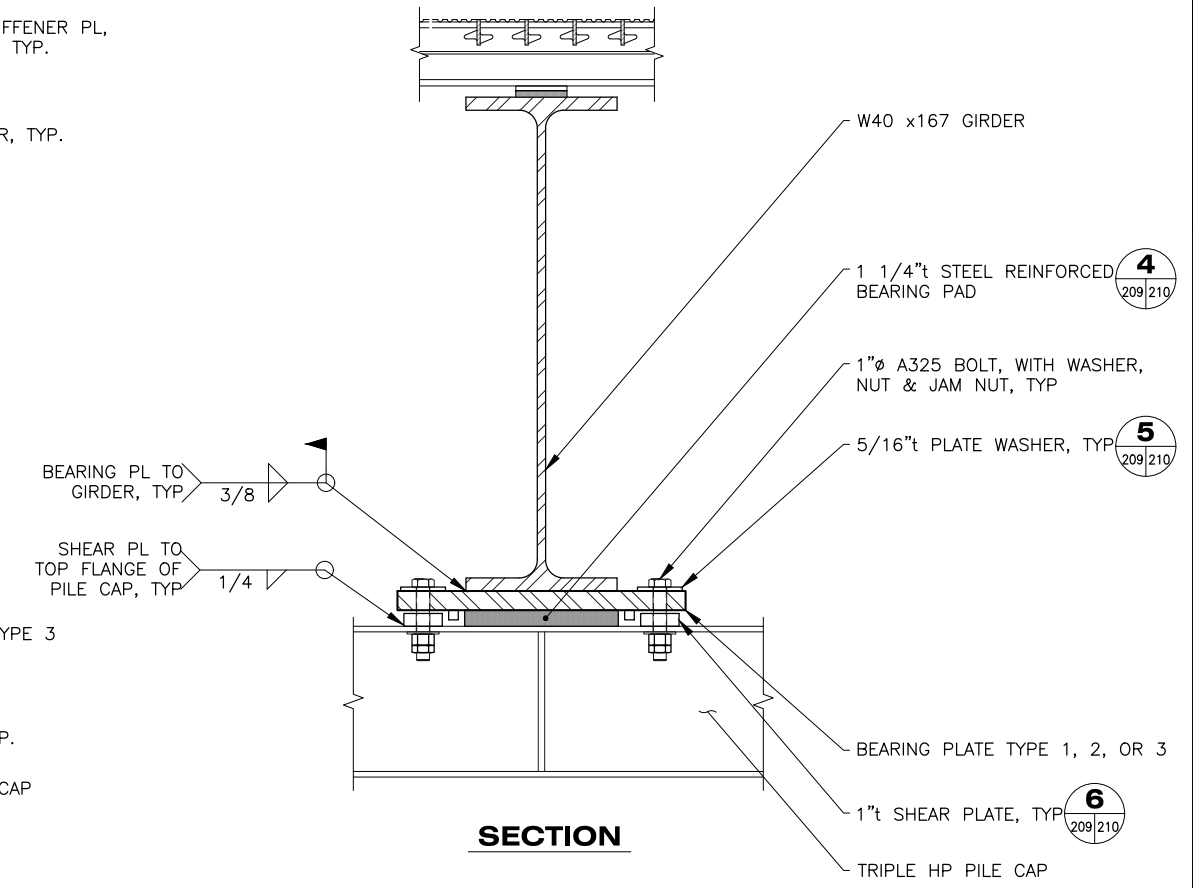
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 CHECKED: STAFF
 DRAFTED: STAFF



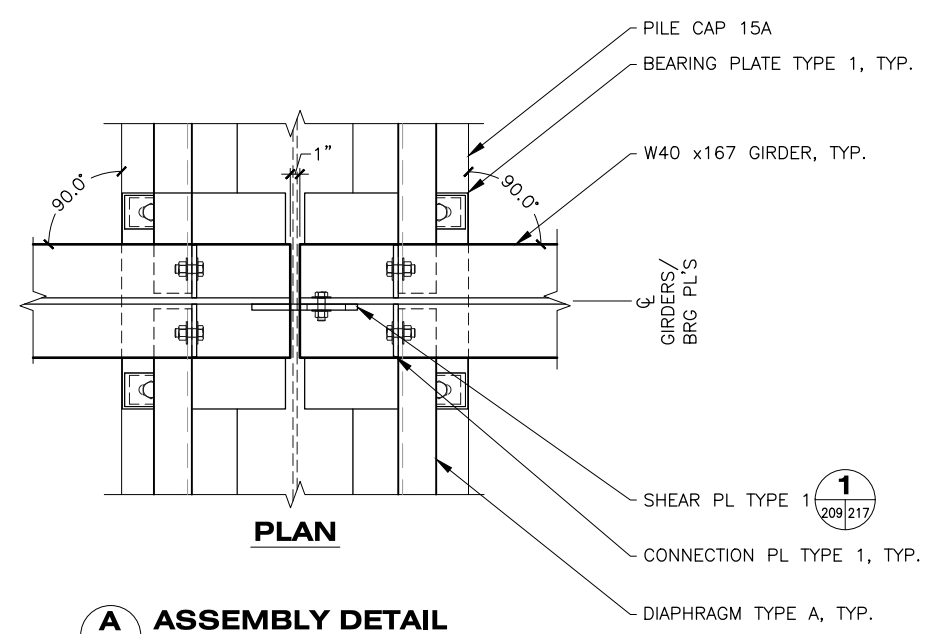
1 TYP BENT ASSEMBLY DETAIL
BENT 15A & BENT 16A
202/209
214



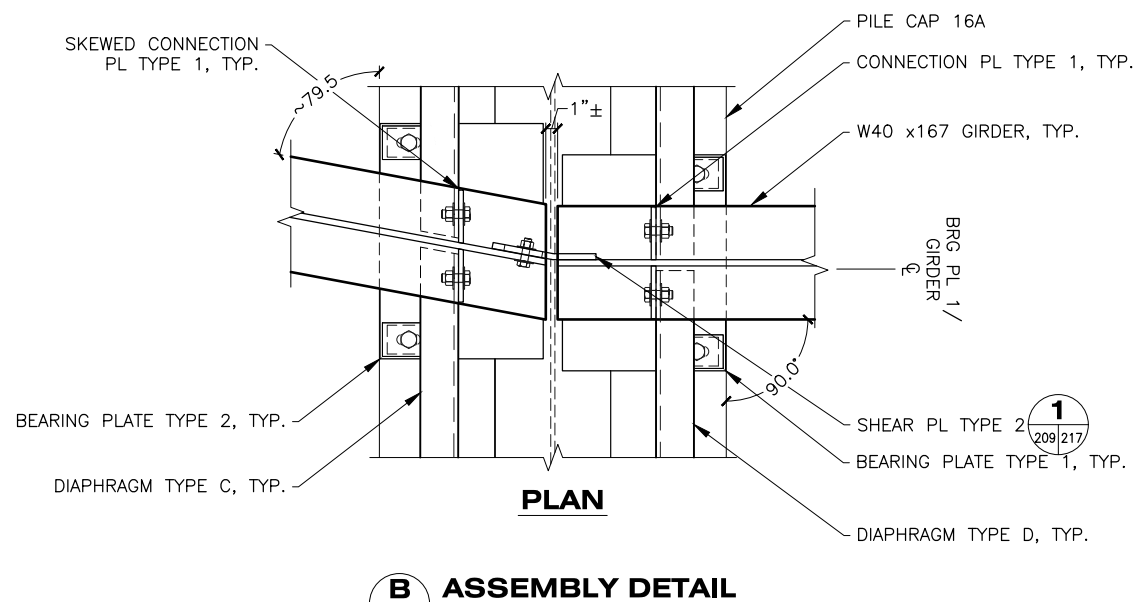
2 TYP BENT ASSEMBLY DETAIL
BENT 14A & BENT 16.5A
202/209



C TYP BEARING PL ASSEMBLY DETAIL
207/209
208

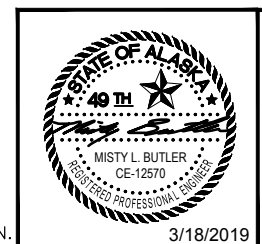


A ASSEMBLY DETAIL
PILE CAP 15A
202/209
202



B ASSEMBLY DETAIL
PILE CAP 16A
202/209
202

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

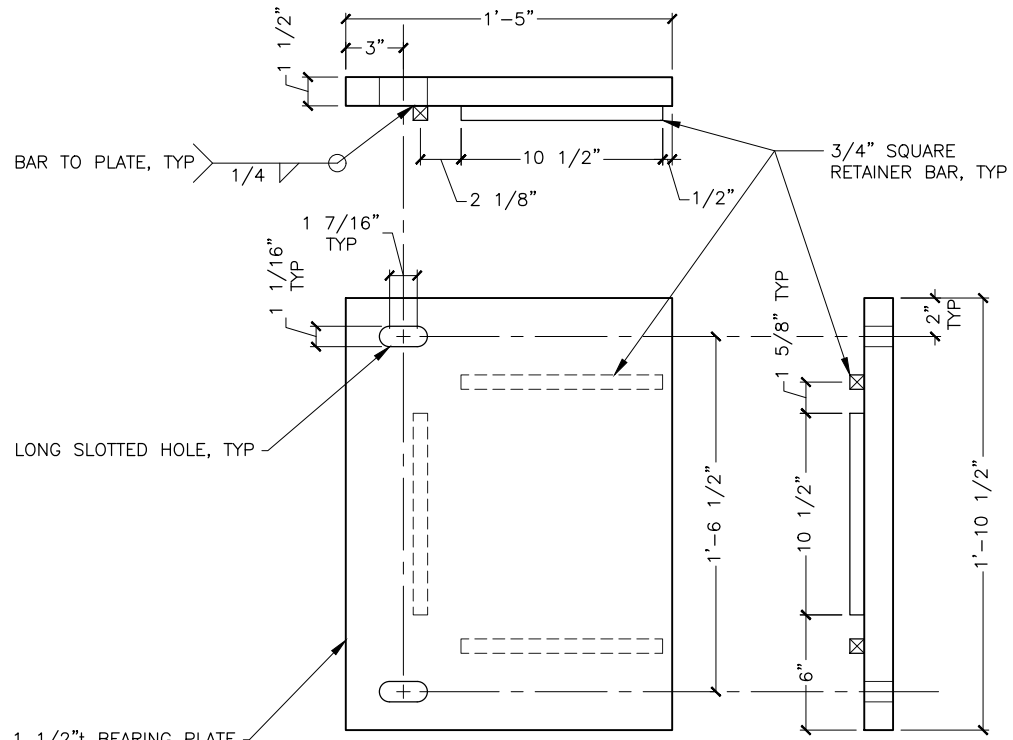
APPROACH ADDITION BEARING PLATE DETAILS

HH 10/01/2024

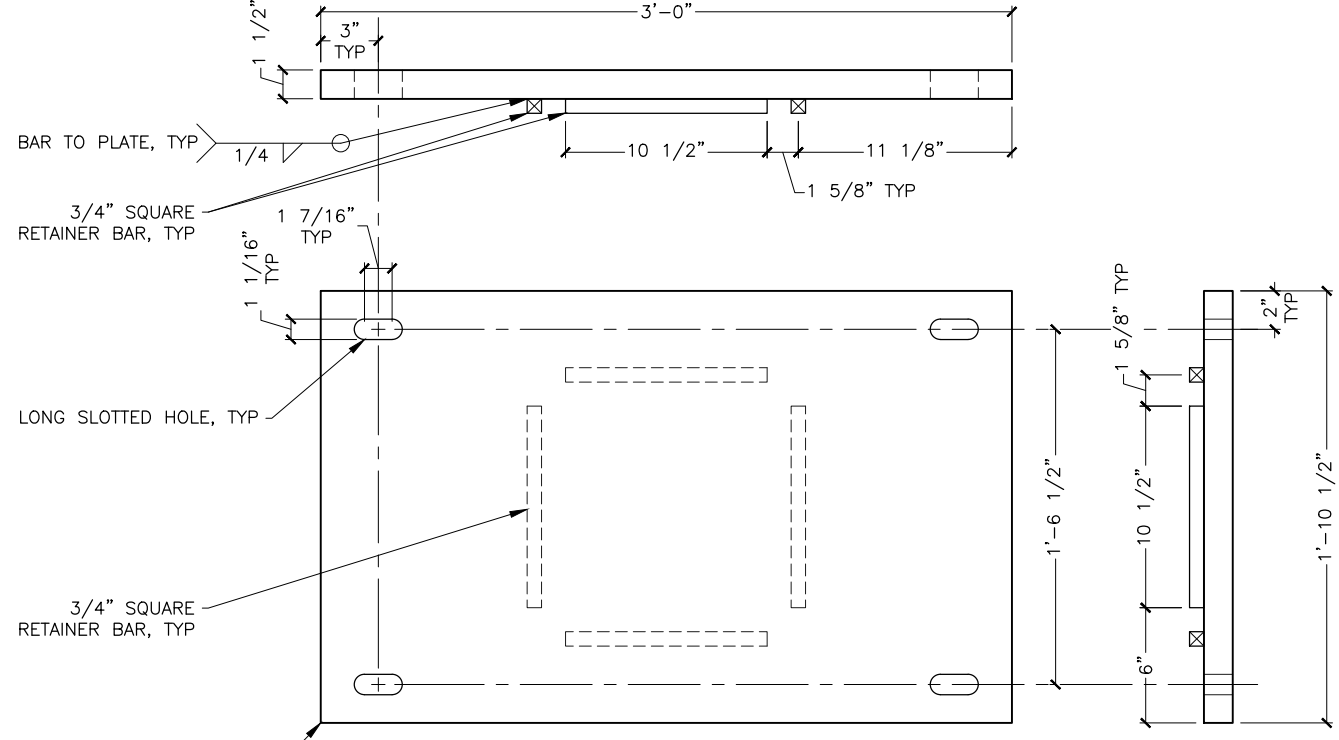
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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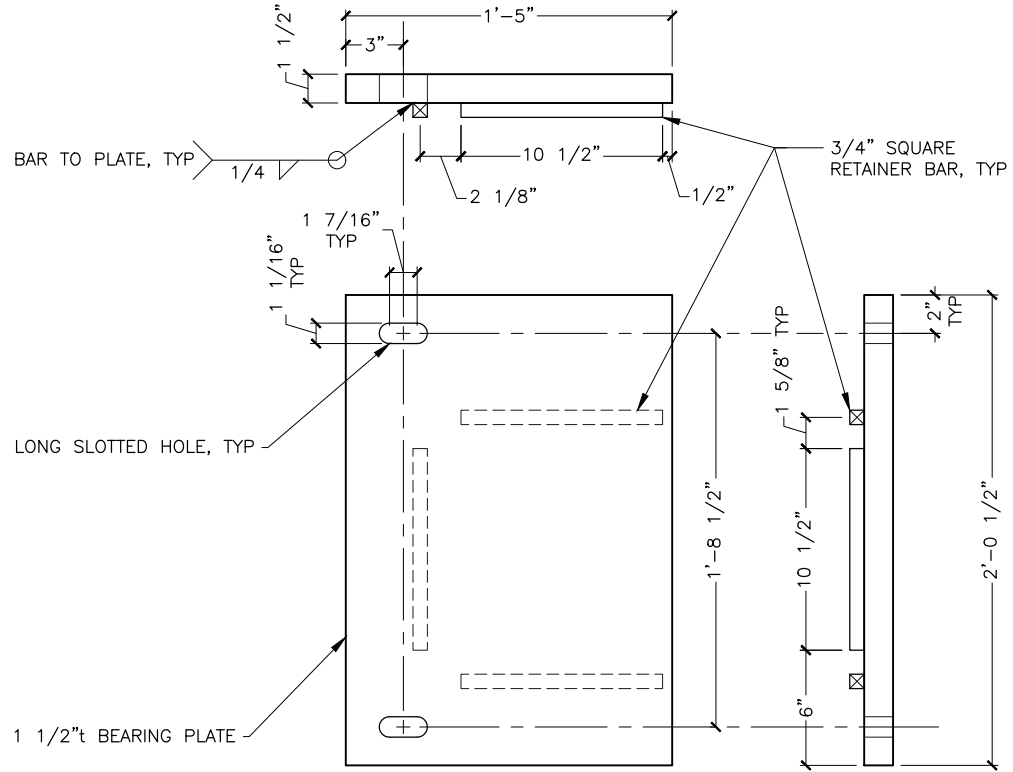
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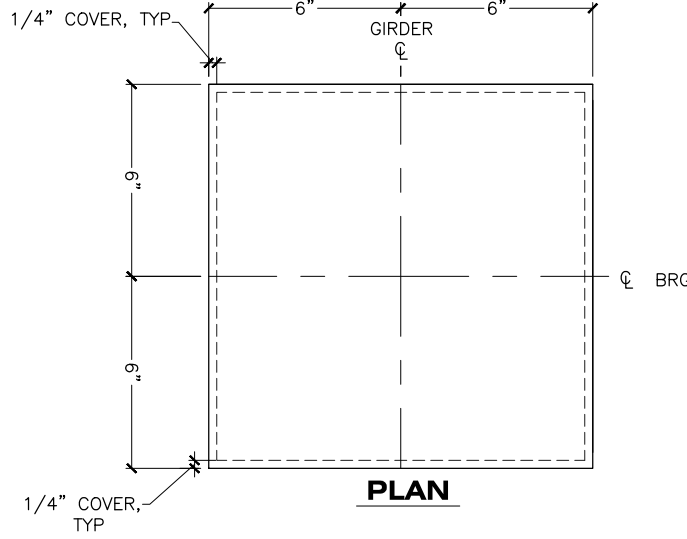
BEARING PLATE TYPE 1
15 TOTAL



BEARING PLATE TYPE 3
14 TOTAL

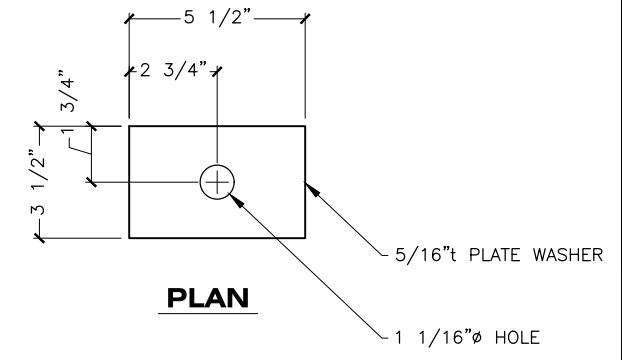


BEARING PLATE TYPE 2
7 TOTAL

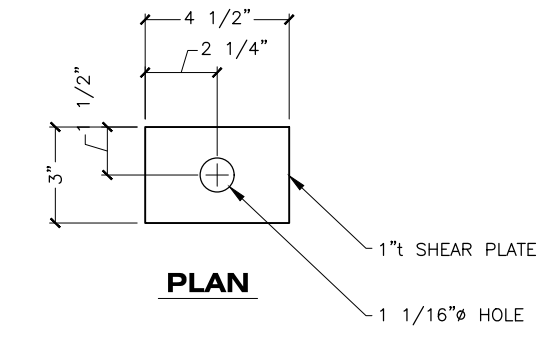


4 ELASTOMERIC BEARING PAD
36 TOTAL

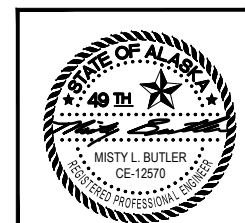
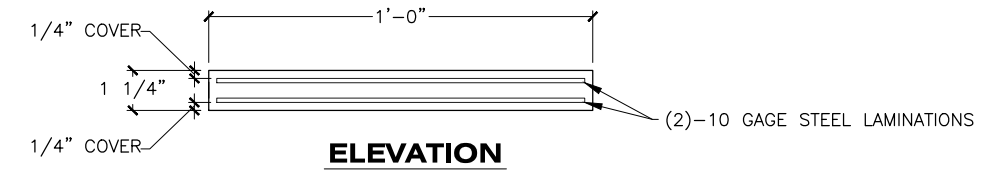
GRADE 5
 DEAD LOAD = 9K
 LIVE LOAD = 44K
 SHEAR MODULUS = 115 PSI
 DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



5 PLATE WASHER
100 TOTAL



6 SHEAR PLATE
100 TOTAL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

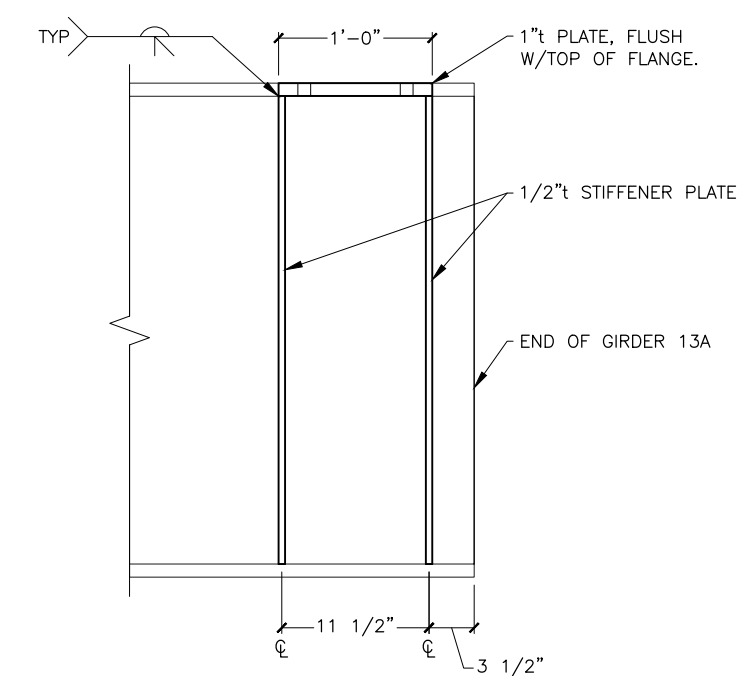
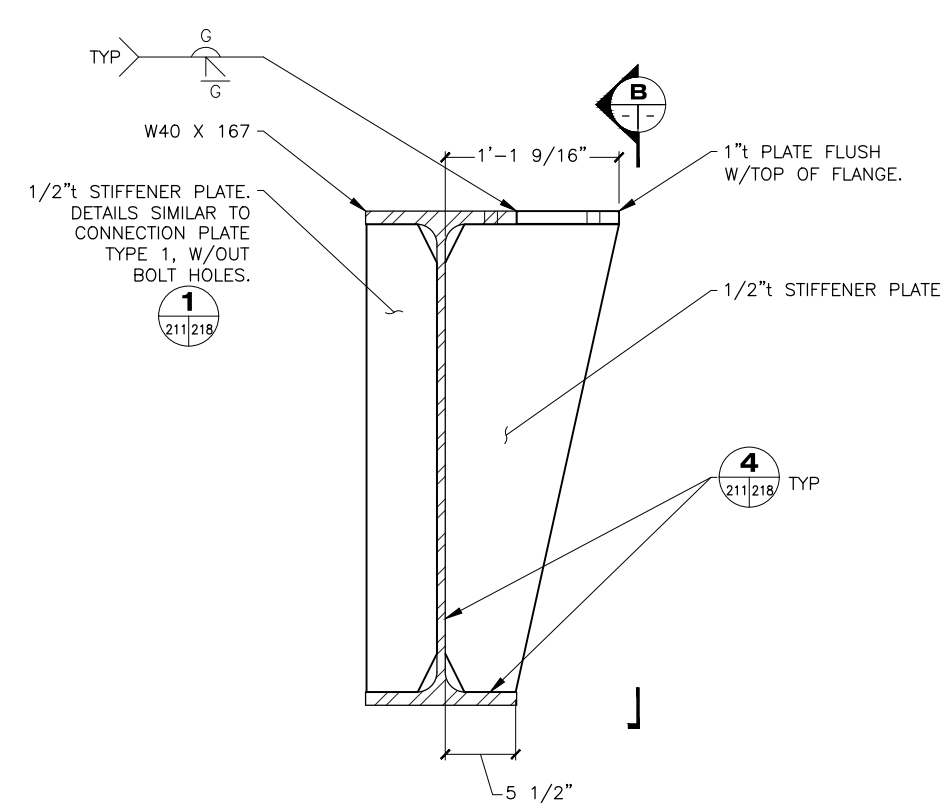
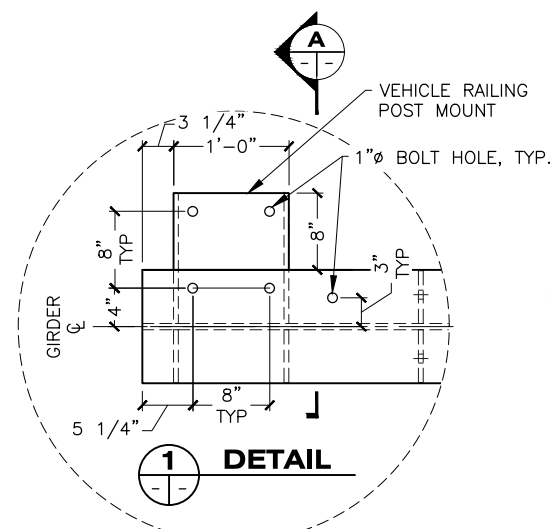
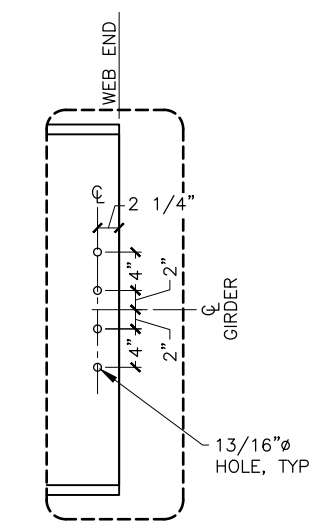
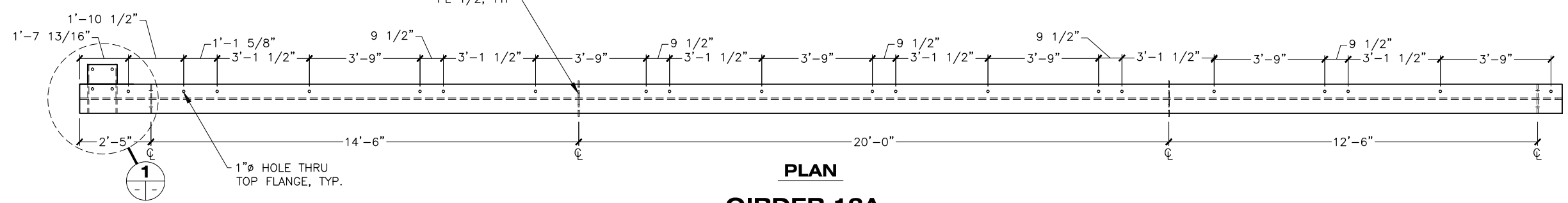
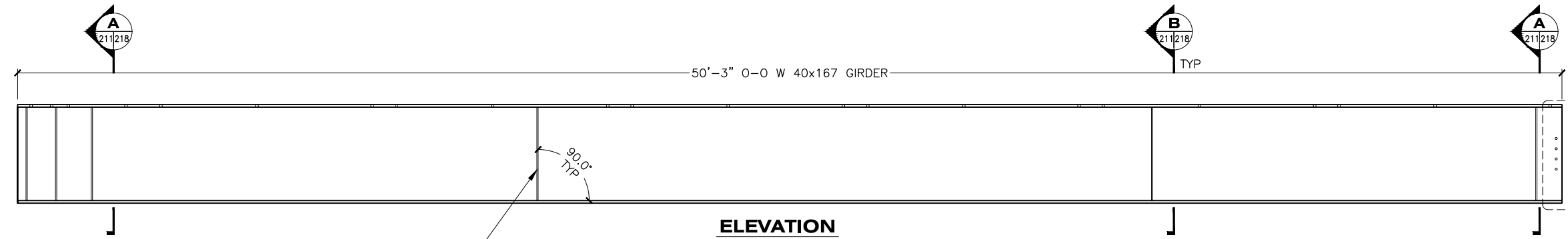
APPROACH ADDITION BEARING PLATE DETAILS

3/18/2019

HH 10/01/2024

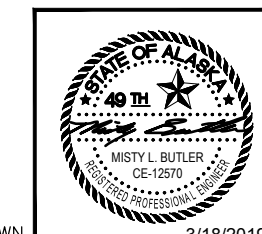
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	211	145

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 DATE: 3/18/2019 13:51 LAYOUT: 211
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



GIRDER 13A

1 TOTAL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION GIRDER DETAILS

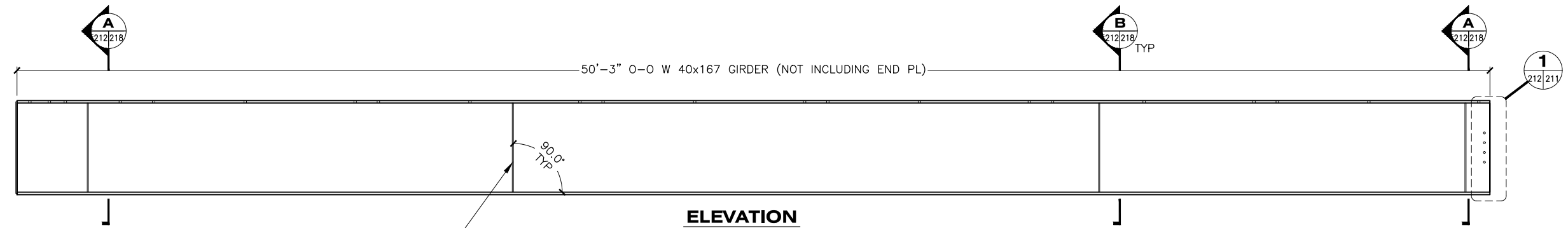
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

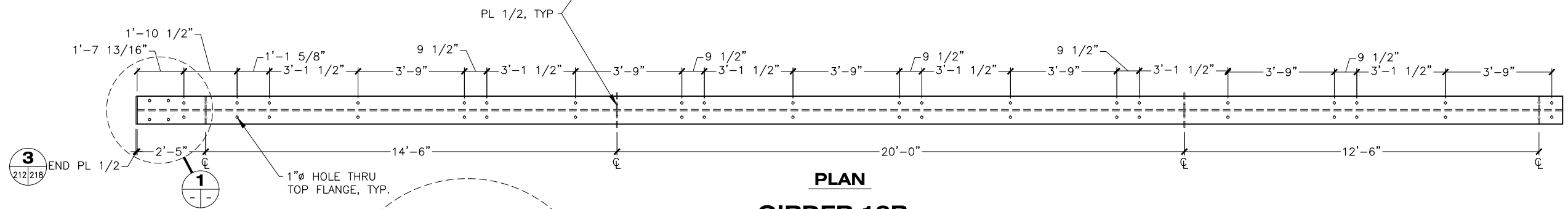
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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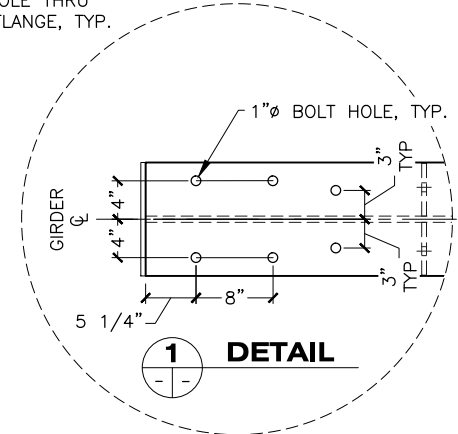
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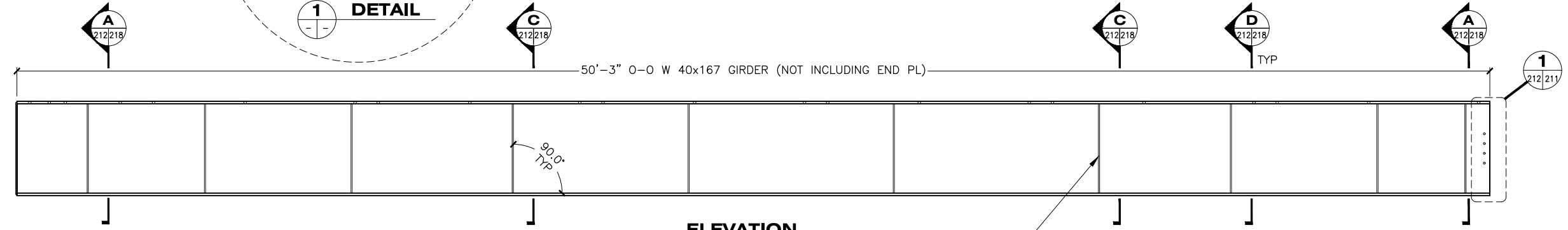
ELEVATION



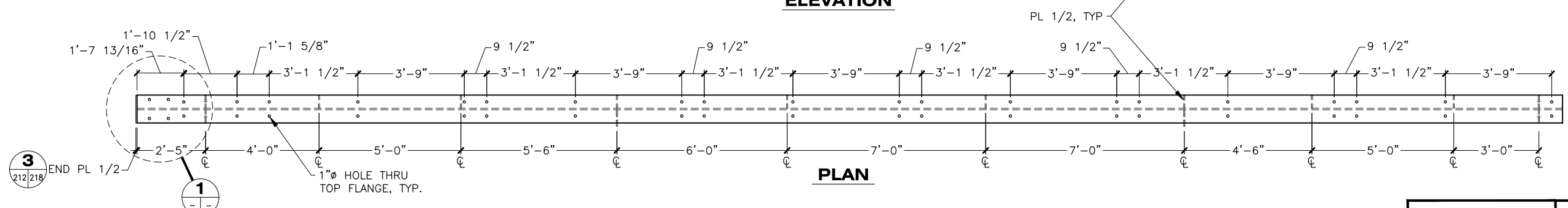
PLAN
GIRDER 13B
3 TOTAL



1
DETAIL



ELEVATION



PLAN
GIRDER 13C
1 TOTAL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

APPROACH ADDITION
GIRDER DETAILS

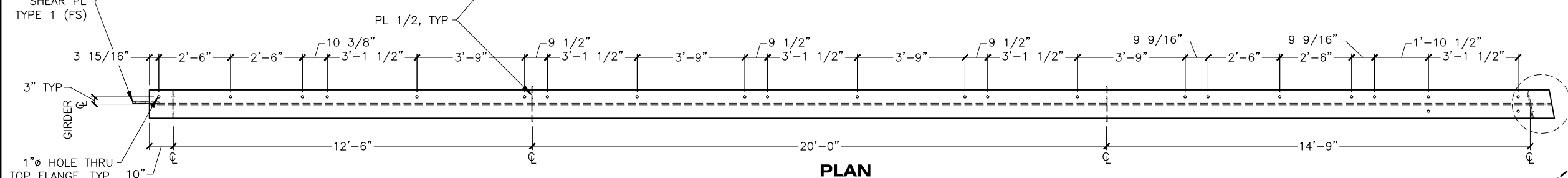
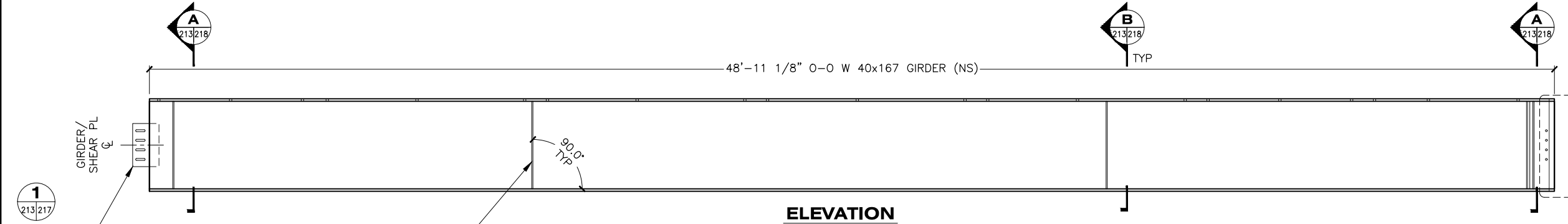
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

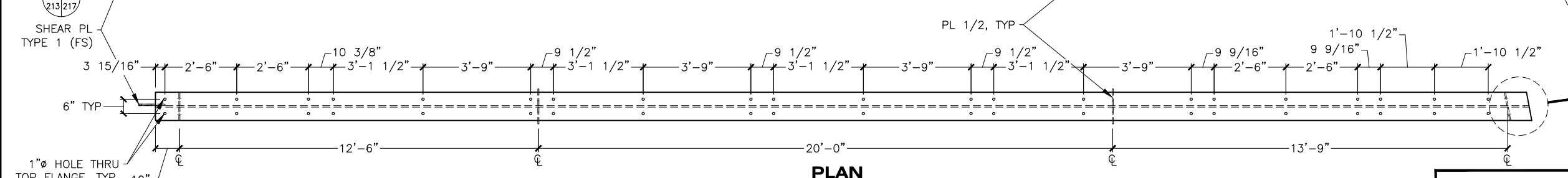
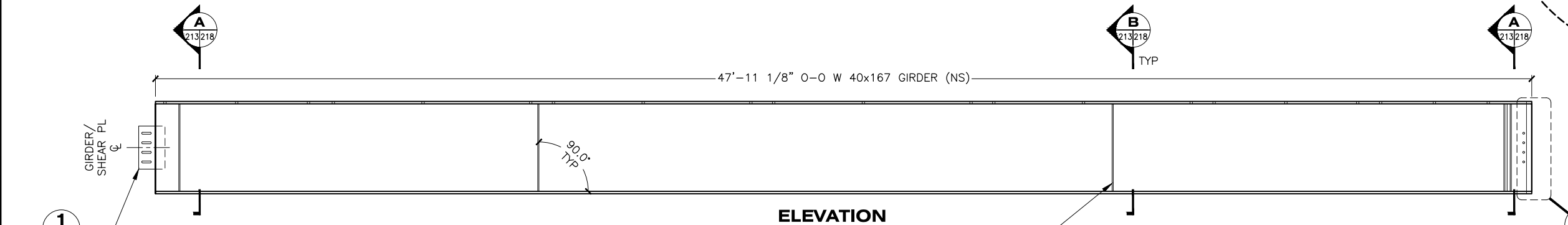
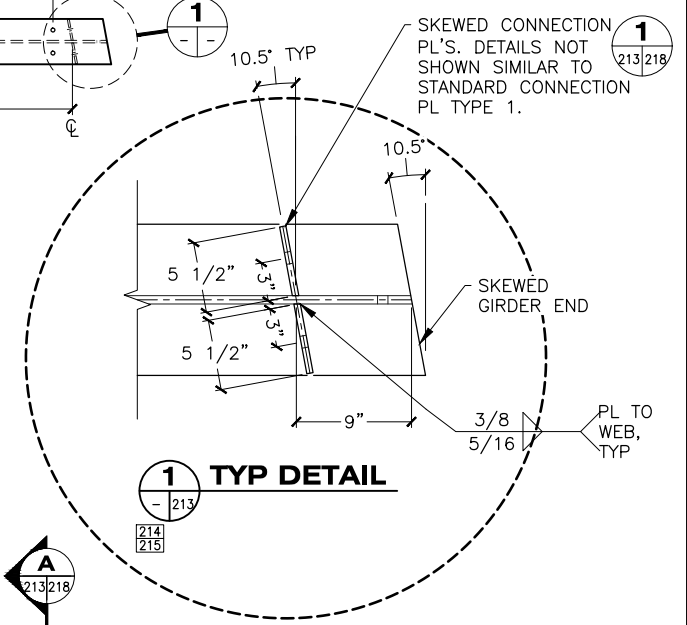
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	213	145

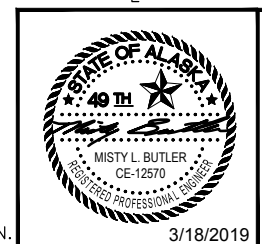
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 CHECKED: STAFF
 DRAFTED: STAFF



GIRDER 14A
1 TOTAL



GIRDER 14B
1 TOTAL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

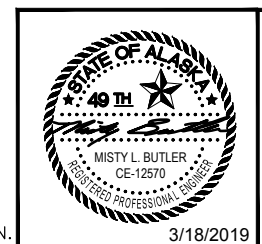
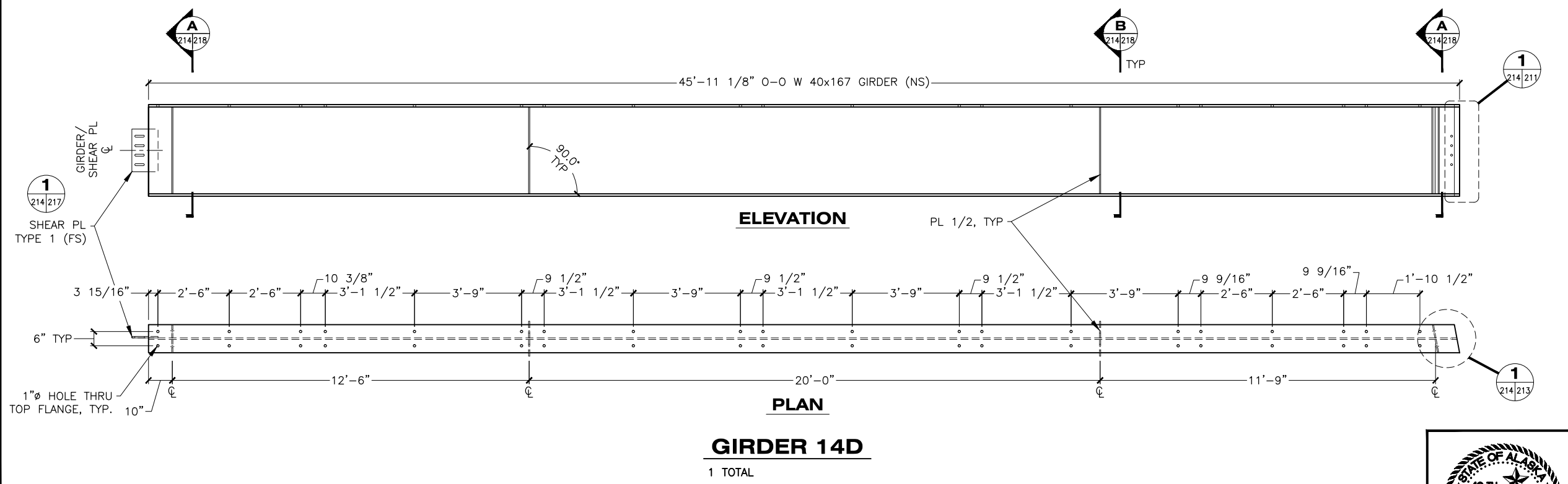
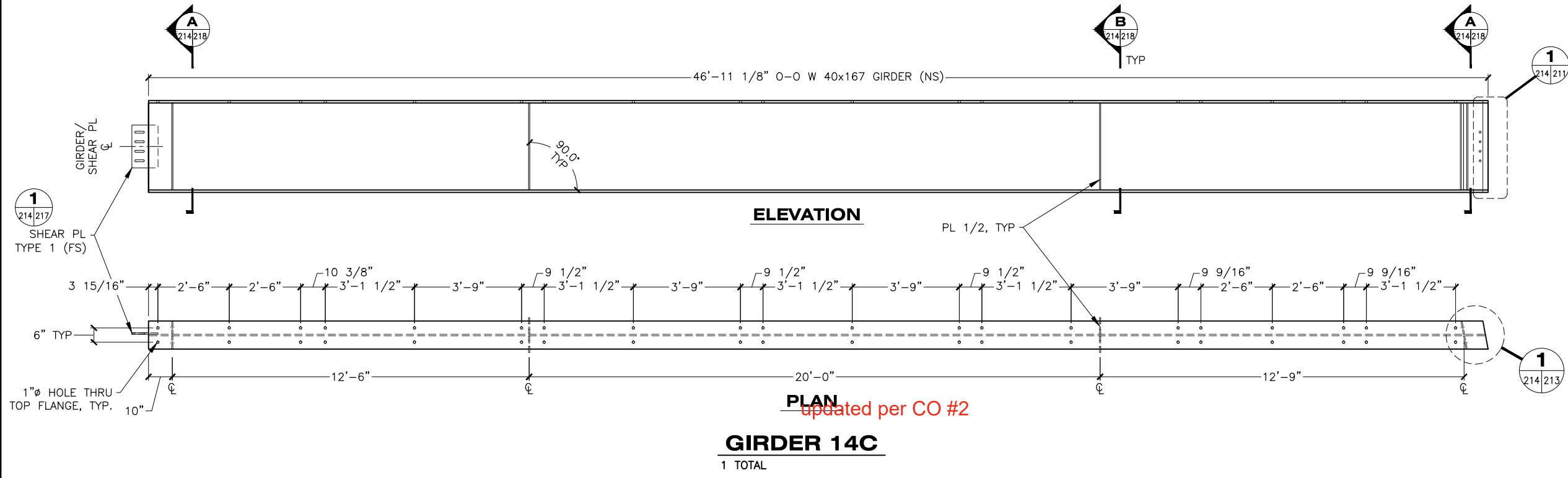
APPROACH ADDITION GIRDER DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	214	145

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

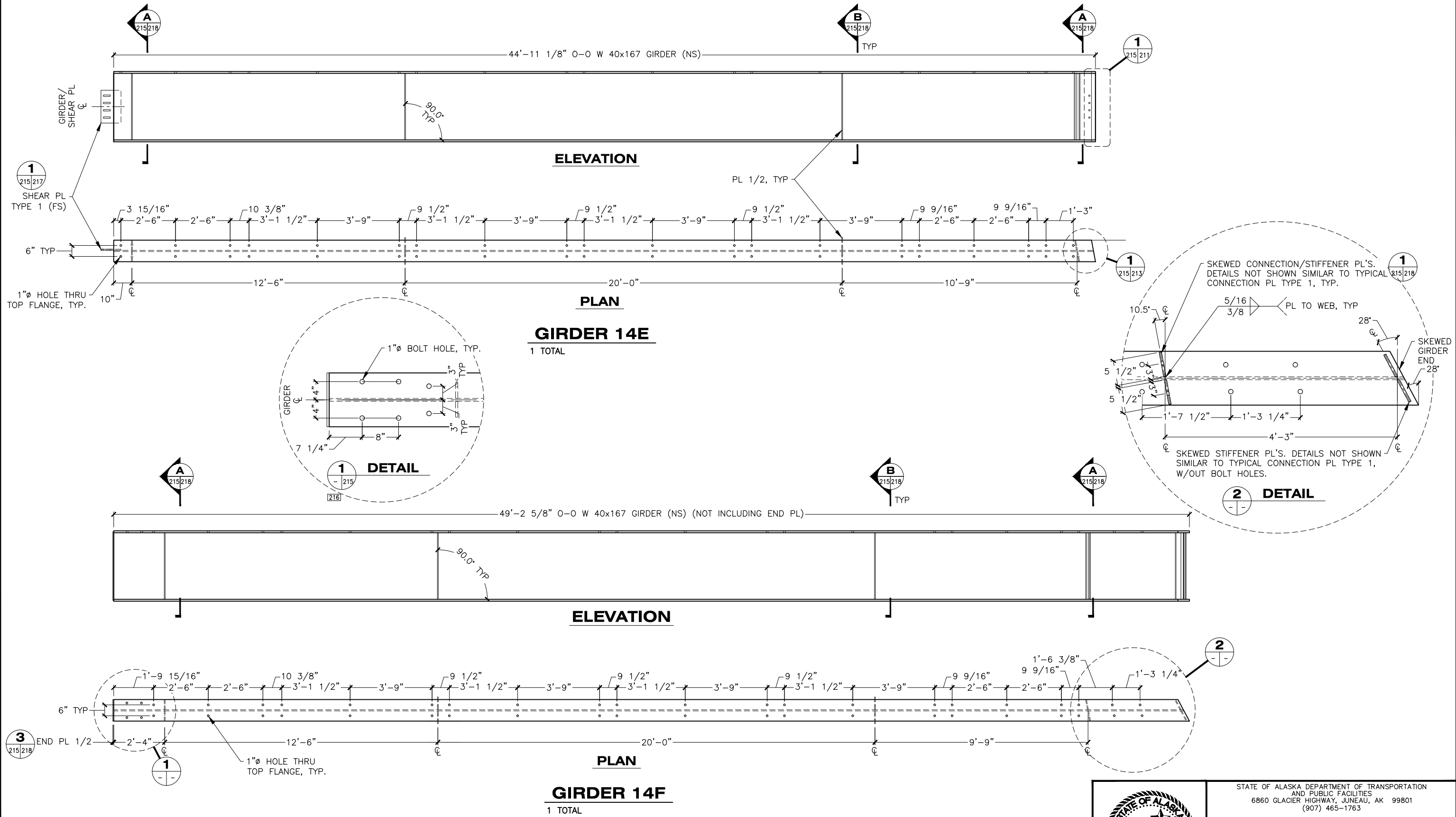
APPROACH ADDITION GIRDER DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	215	145

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DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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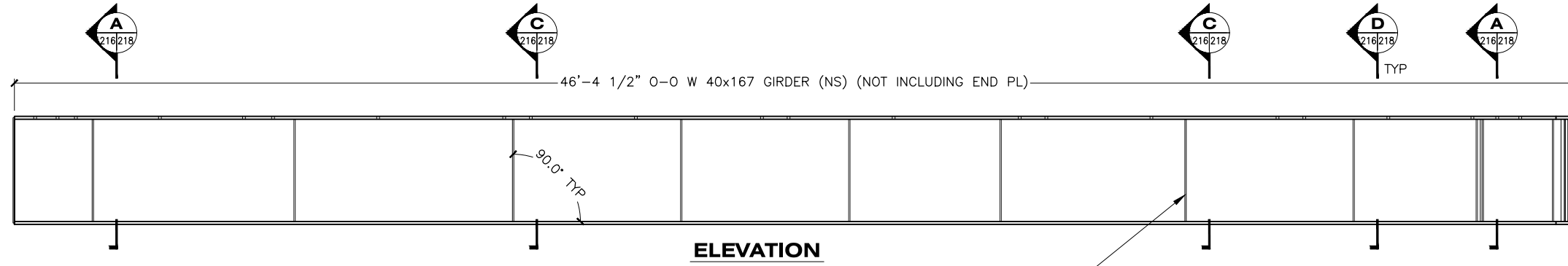
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION GIRDER DETAILS

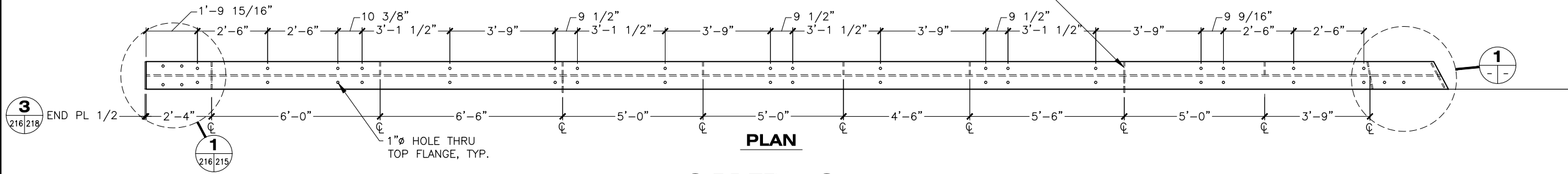
3/18/2019

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	216	145

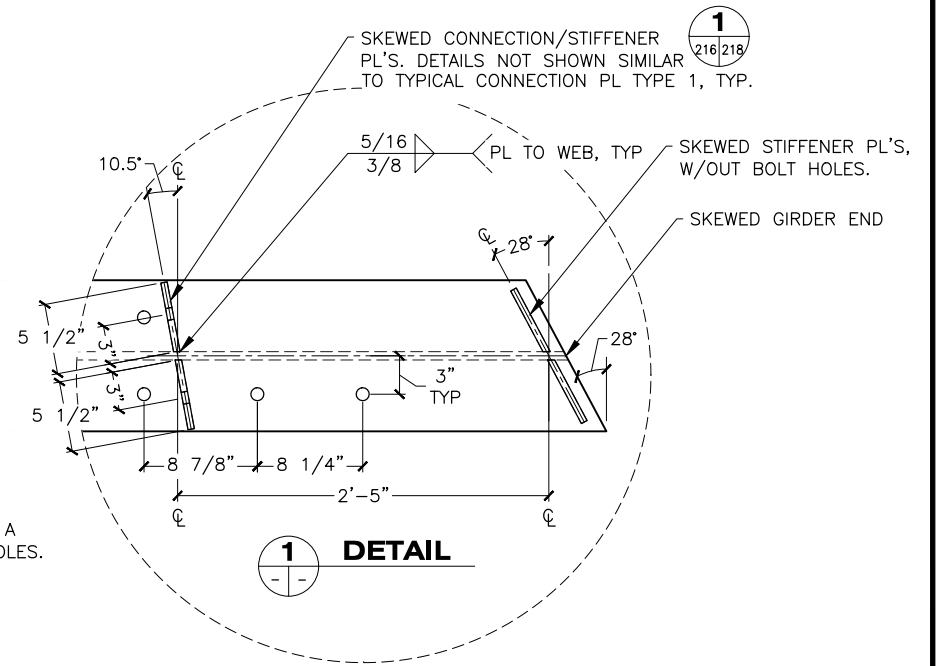


ELEVATION

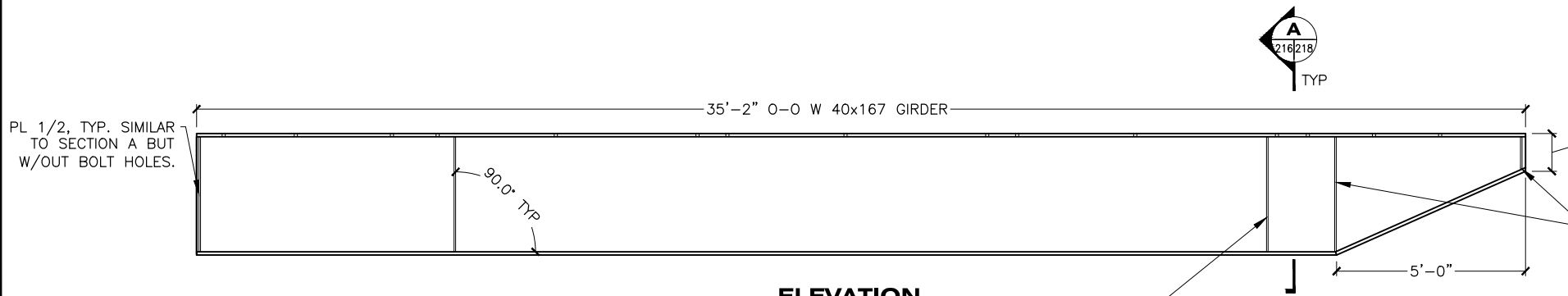


PLAN

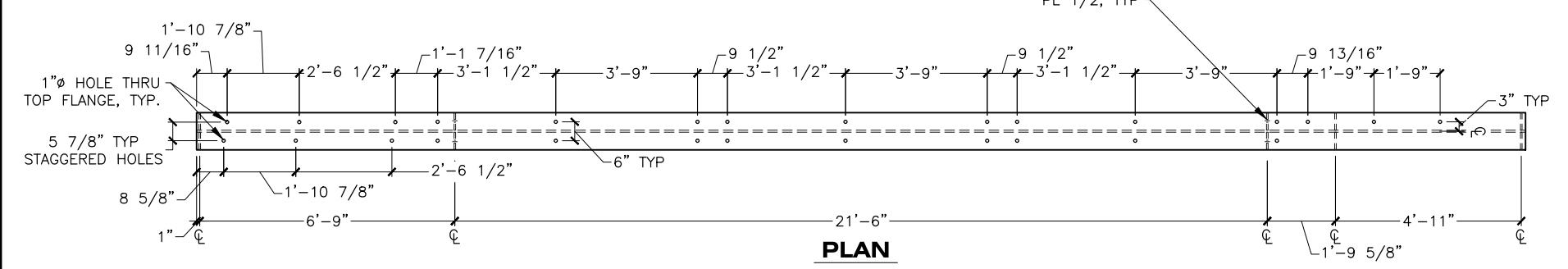
GIRDER 14G
1 TOTAL



1 DETAIL



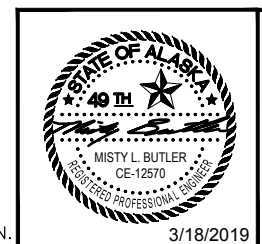
ELEVATION



PLAN

GIRDER 15A
1 TOTAL

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

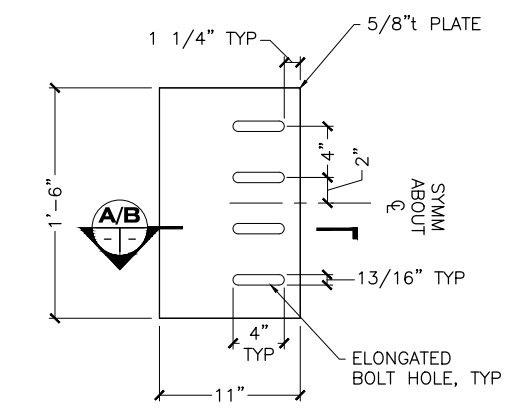
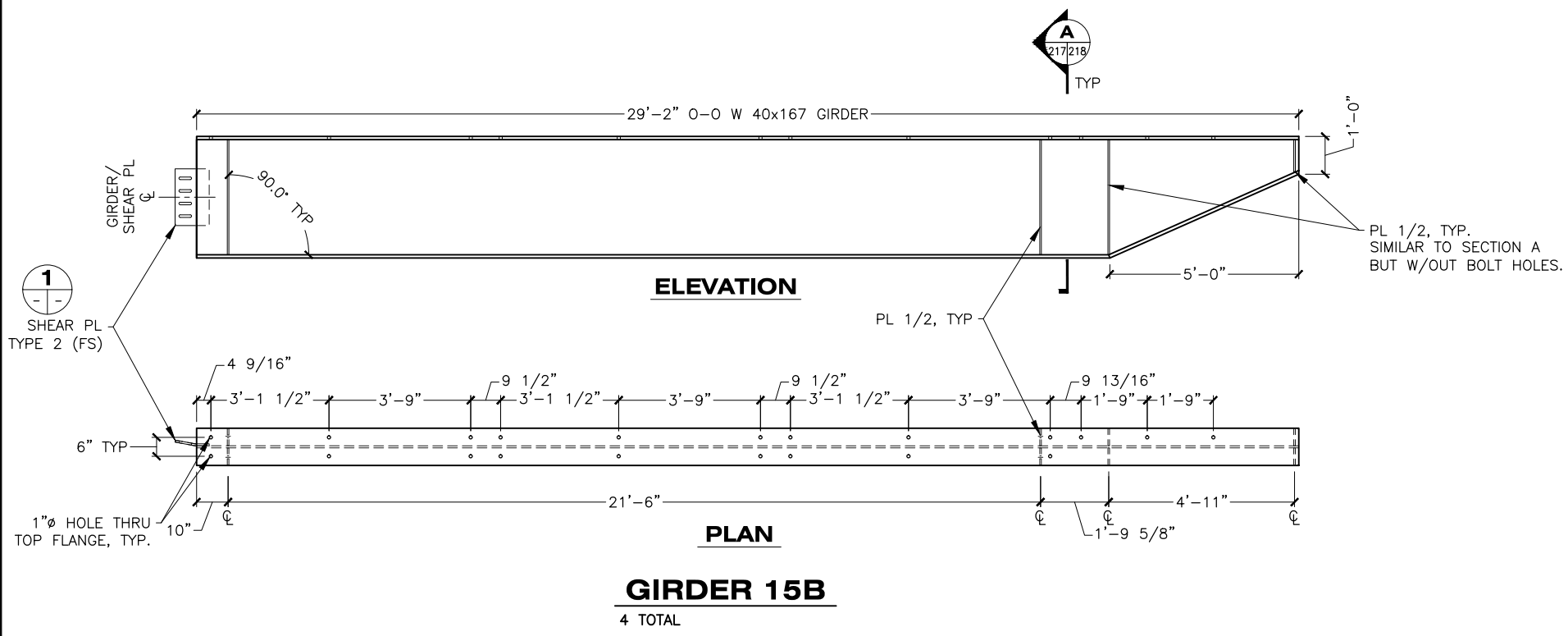
APPROACH ADDITION GIRDER DETAILS

HH 10/01/2024

FILE: q:\Gus\68128\WF\PLANSET\211-217 - APPROACH - GIRDER DETAILS.dwg DATE: 3/18/2019 13:51 LAYOUT: 216 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

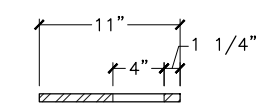
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	217	145

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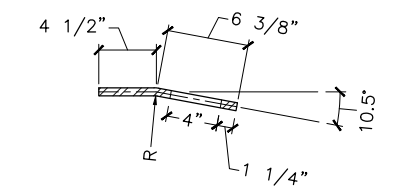


1
- 217

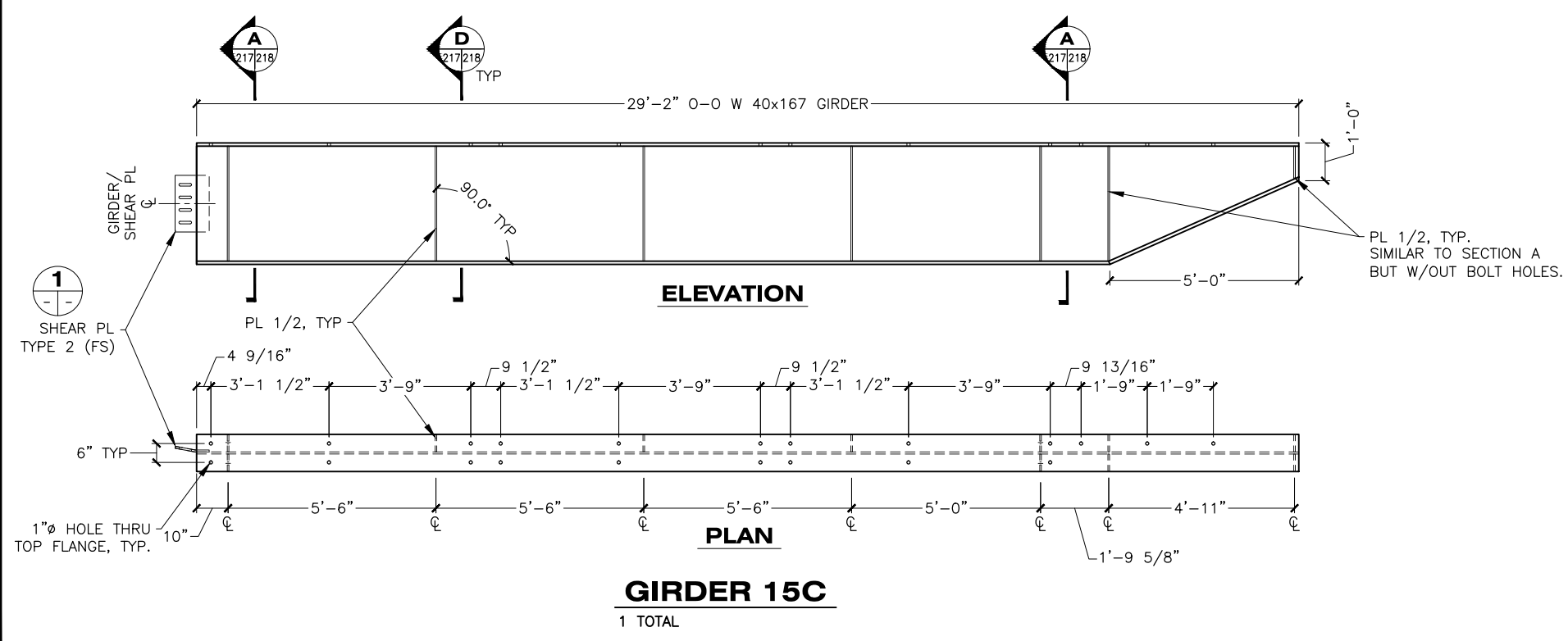
NOTE: SEE SHEAR PLATE ASSEMBLY DETAIL(S) **1**
209/214
213/215



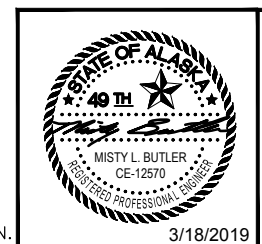
A
- -



B
- -



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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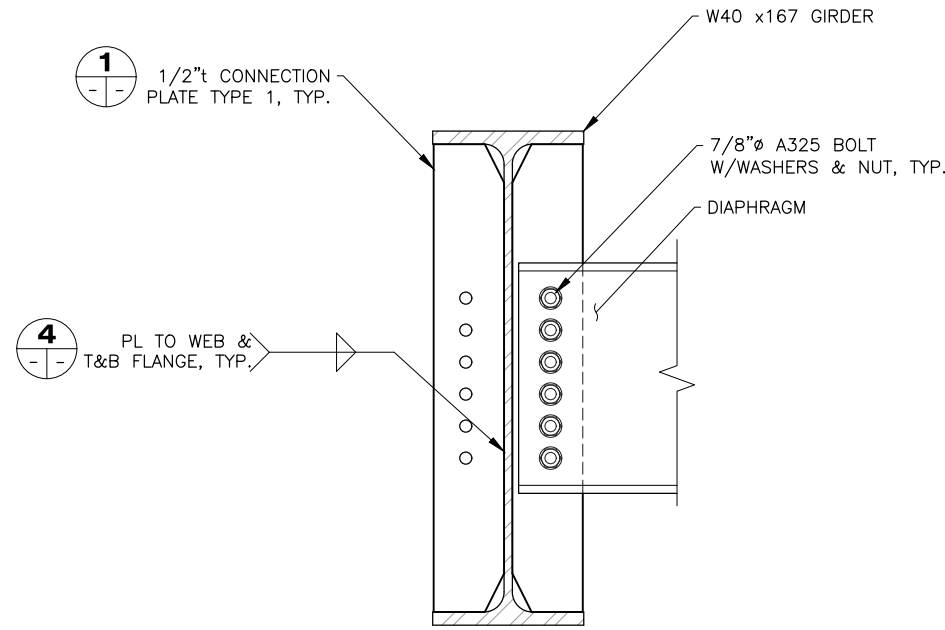
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION GIRDER DETAILS

HH 10/01/2024

3/18/2019

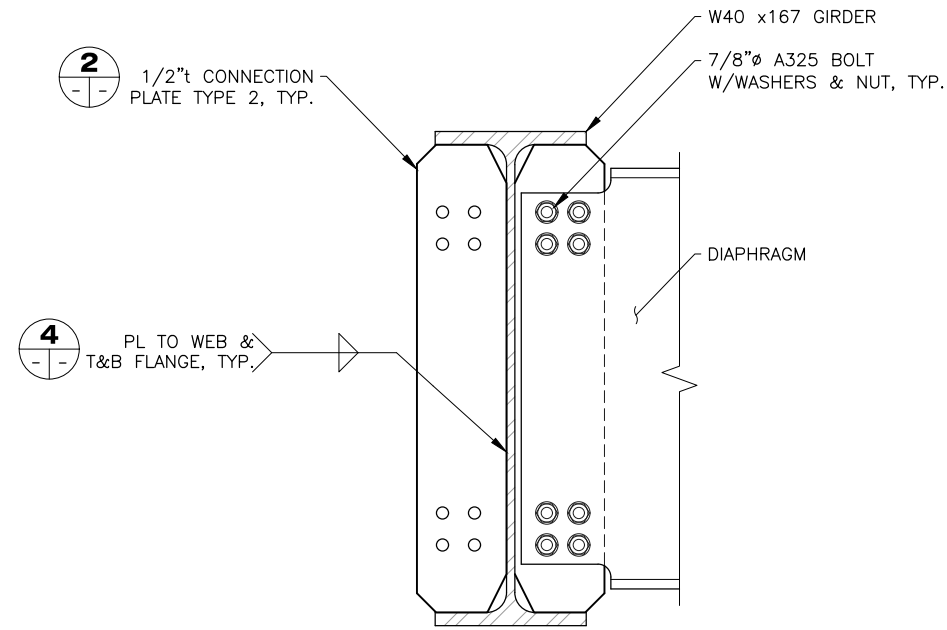
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	218	145



ELEVATION

A DIAPHRAGM CONNECTION DETAIL

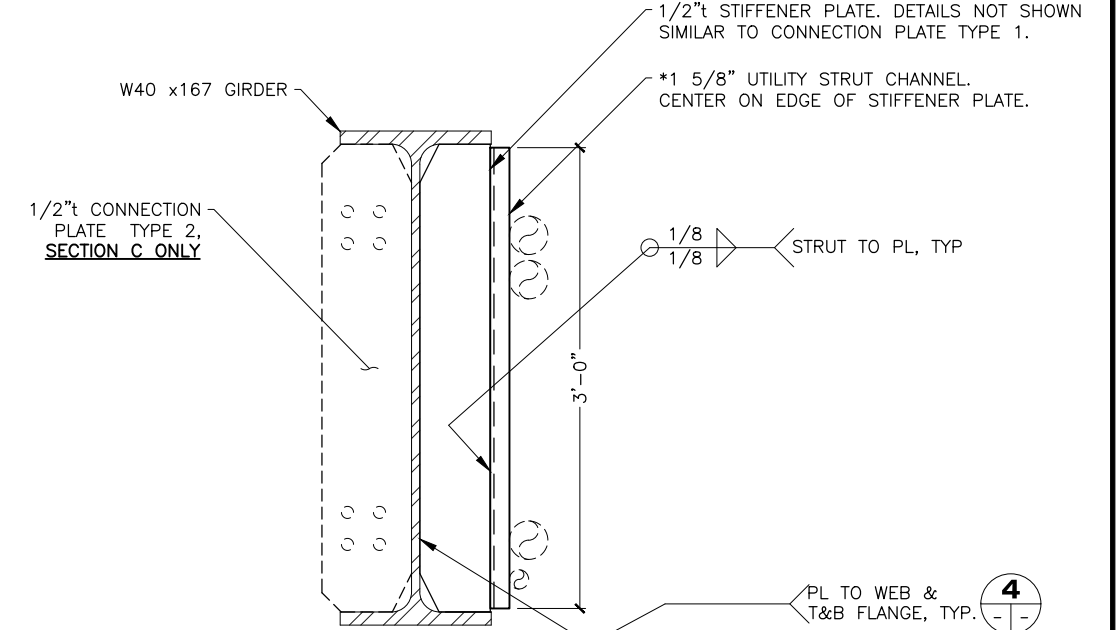
211/218
212/215
213/216
214/217



ELEVATION

B DIAPHRAGM CONNECTION DETAIL

211/218
212/214
213/215

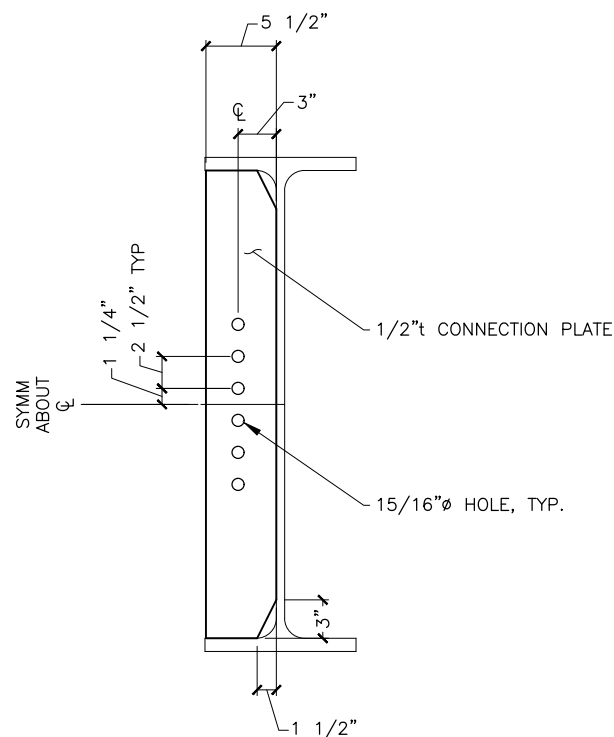


ELEVATION

C/D UTILITY ATTACHMENT

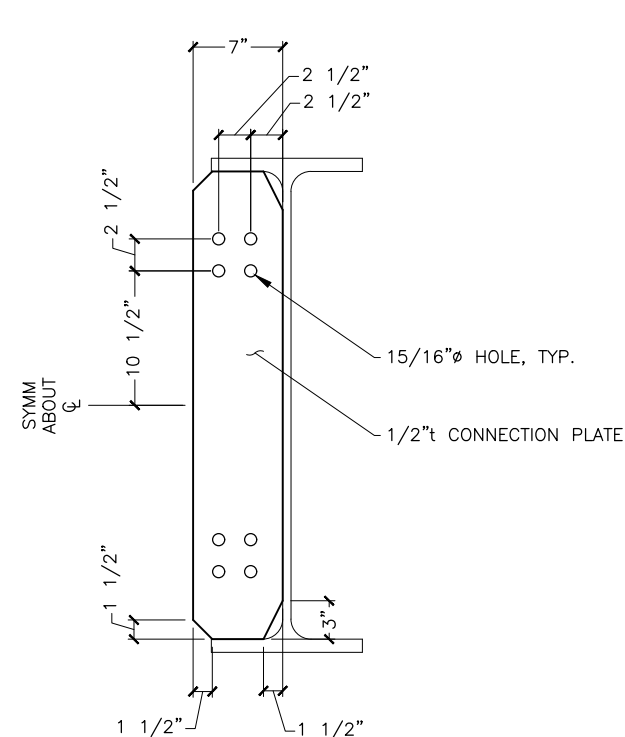
212/218
216
217

*SIMILAR DETAIL WHERE NEW ELECTRICAL IS SHOWN RUNNING ALONG THE EXISTING GIRDERS. NEW UNISTRUTS SHALL BE FIELD-WELDED TO EXISTING STIFFENER AND CONNECTION PLATES AS NEEDED TO MEET ELECTRICAL SUPPORT REQUIREMENTS.



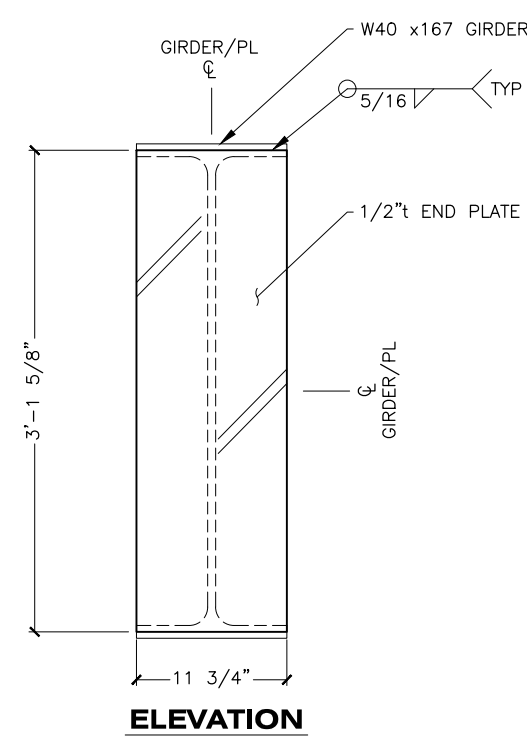
1 CONNECTION PLATE TYPE 1

211
215
216



2 CONNECTION PLATE TYPE 2

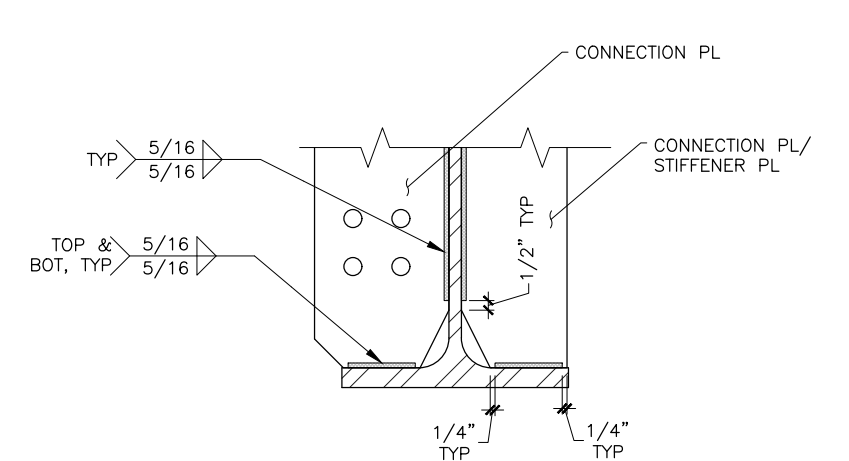
211
215
216



ELEVATION

3 END PLATE

212/219
215
216



4 TYP WELD TERMINATION DETAIL

211
220



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION GIRDER DETAILS

3/18/2019

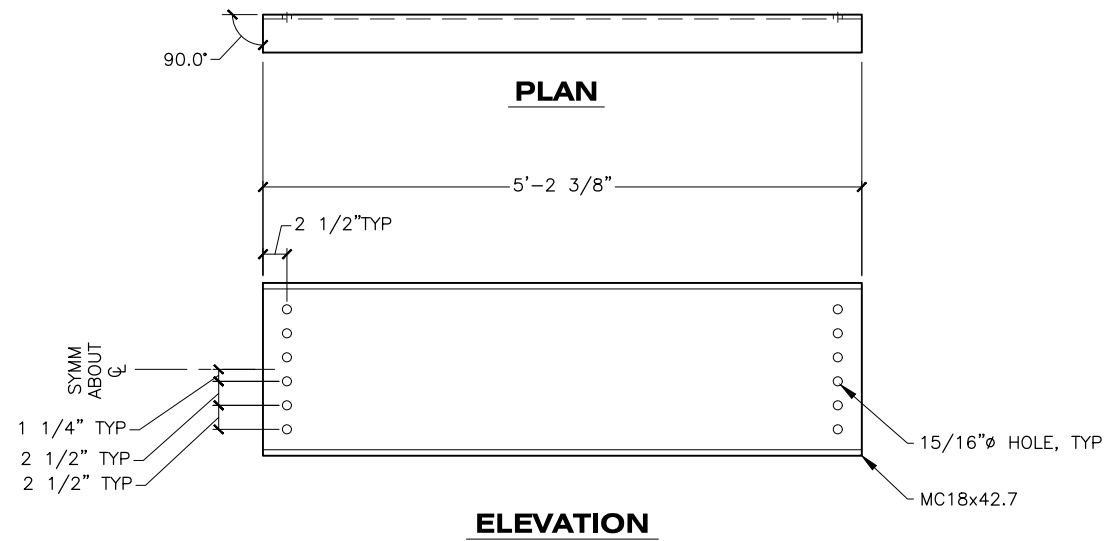
HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

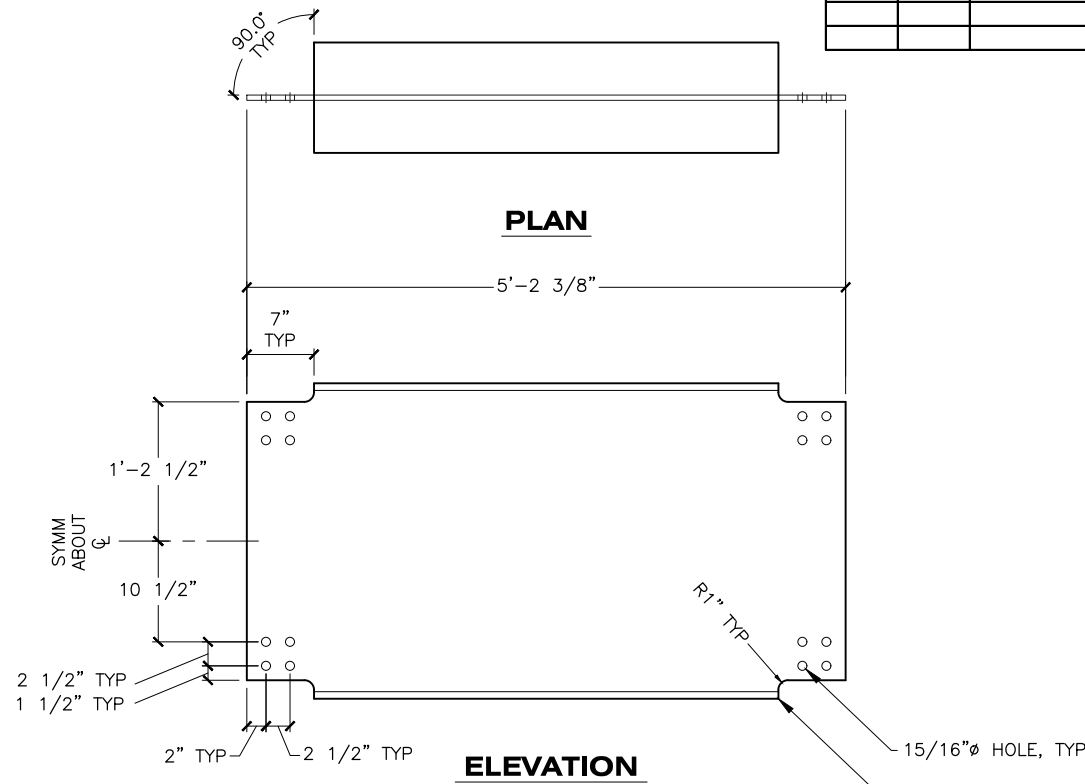
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 DATE: 3/18/2019 13:55 LAYOUT: 218
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

FILE q:\us\68128\WF\PLANSET\218-220 - APPROACH - DIAPHRAGM DETAILS.dwg DATE 3/18/2019 13:55 LAYOUT 219 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

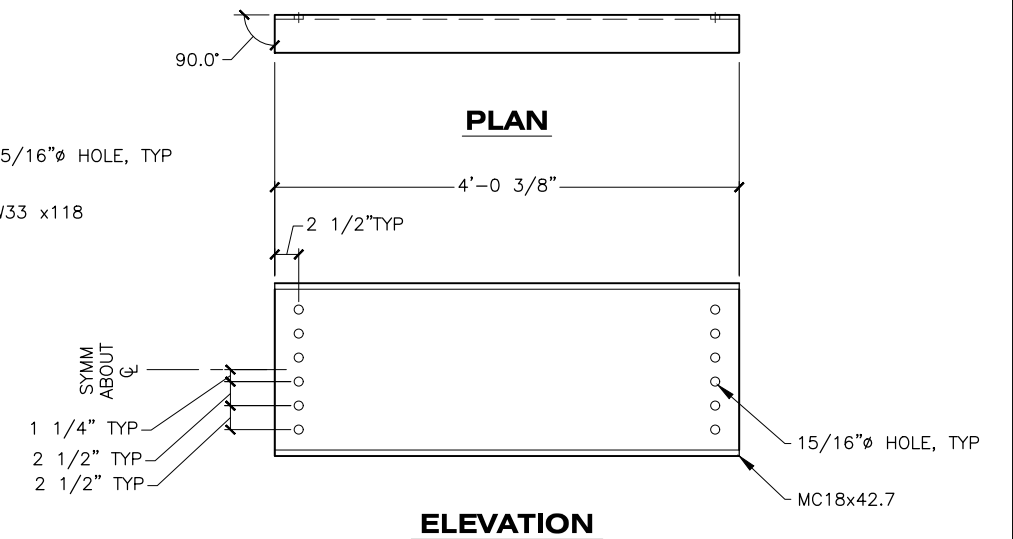
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	219	145



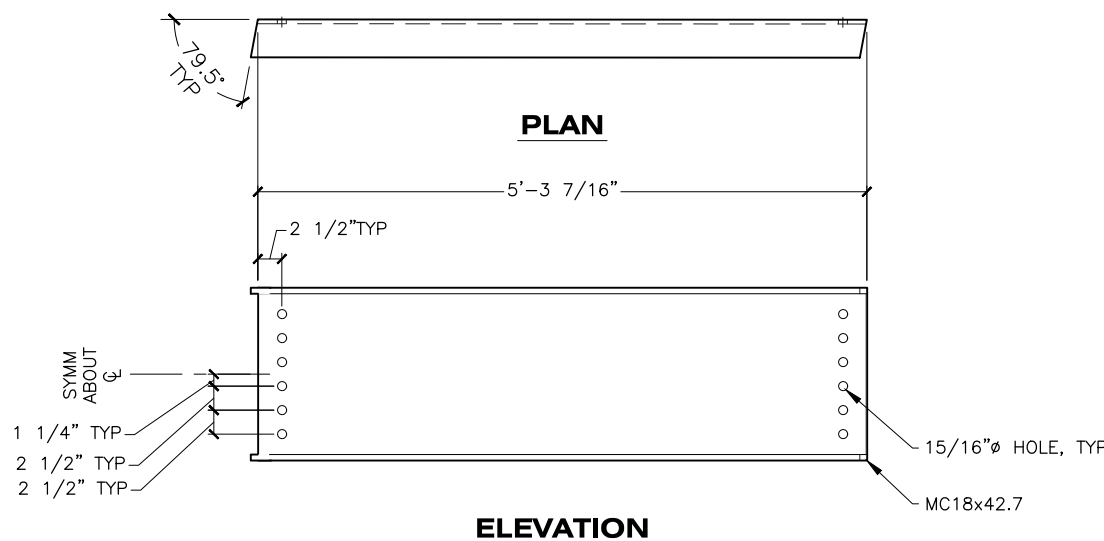
1 DIAPHRAGM A
14 TOTAL



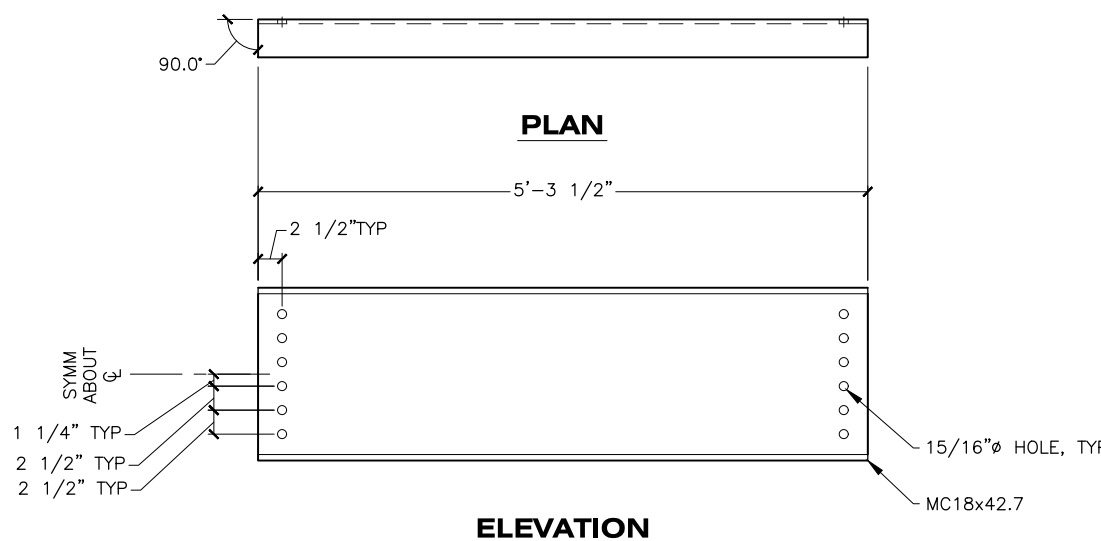
2 DIAPHRAGM B
20 TOTAL



5 DIAPHRAGM E
2 TOTAL



3 DIAPHRAGM C
6 TOTAL



4 DIAPHRAGM D
8 TOTAL

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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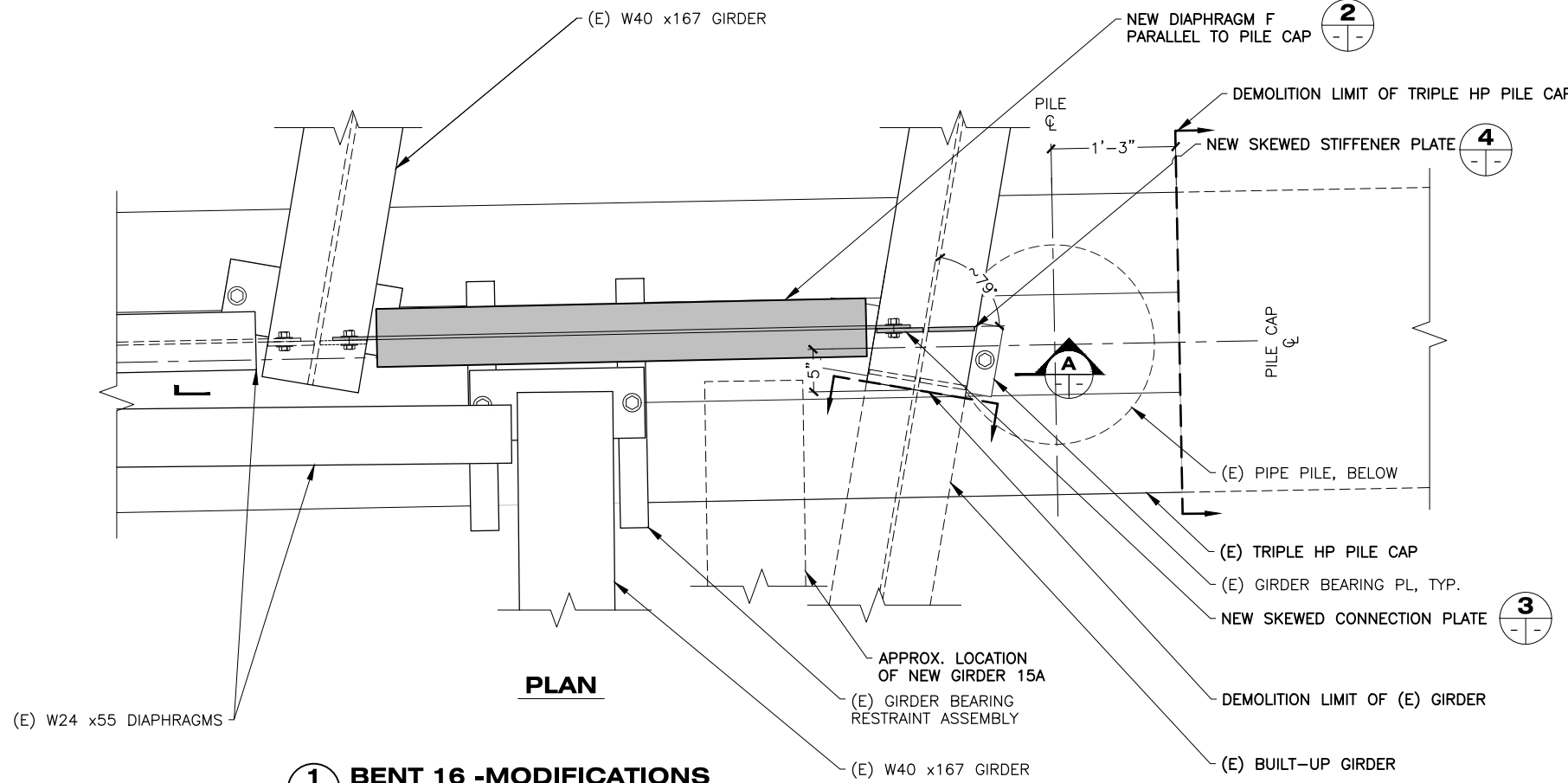
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DIAPHRAGM DETAILS

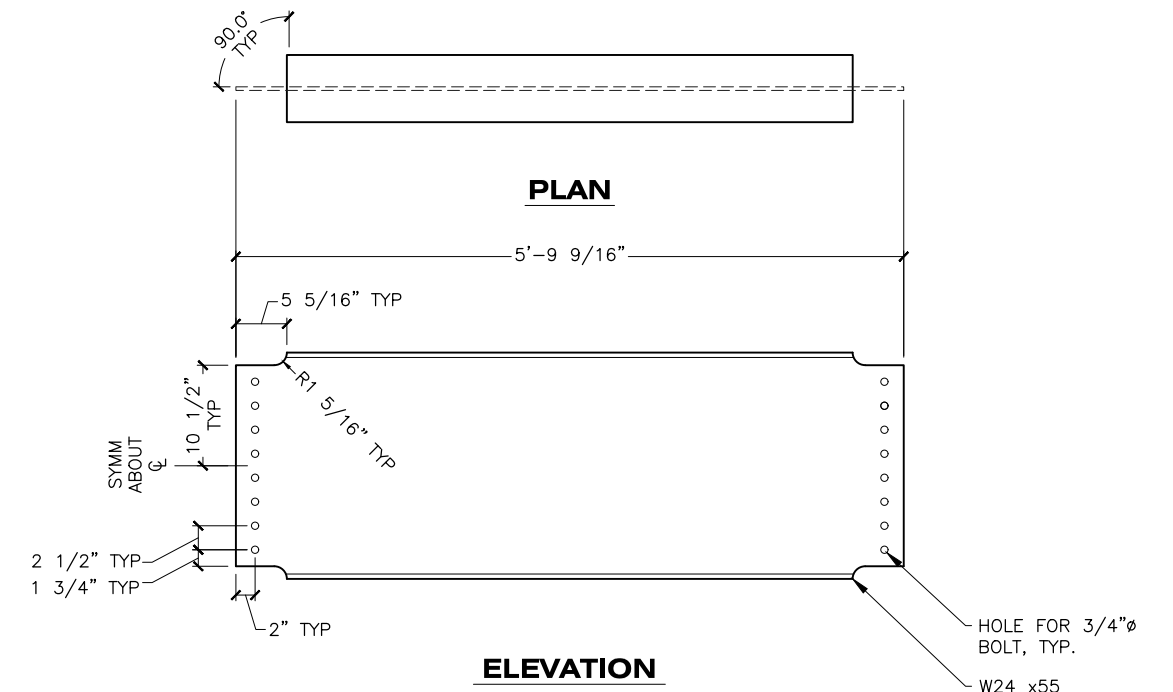
HH 10/01/2024

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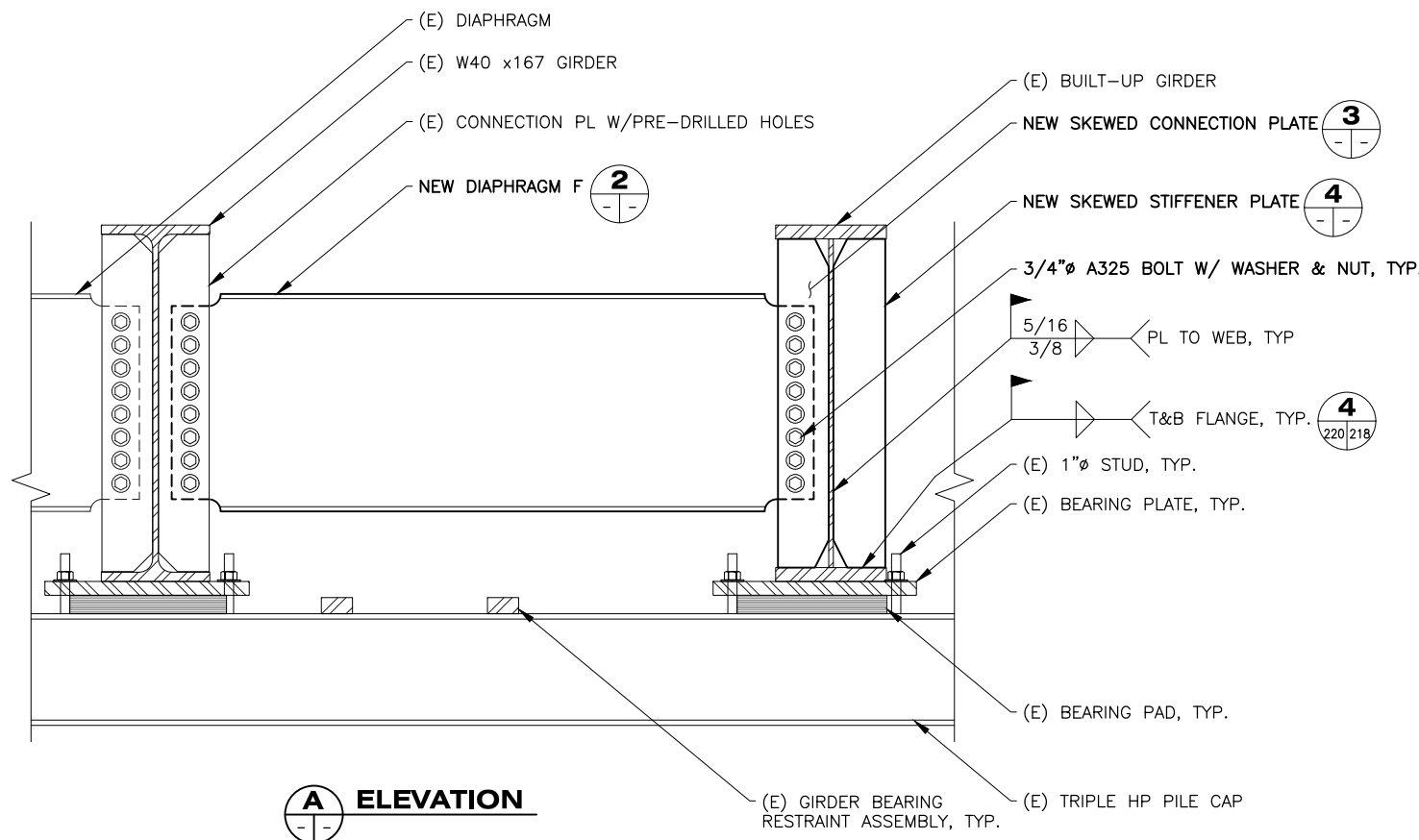
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	220	145



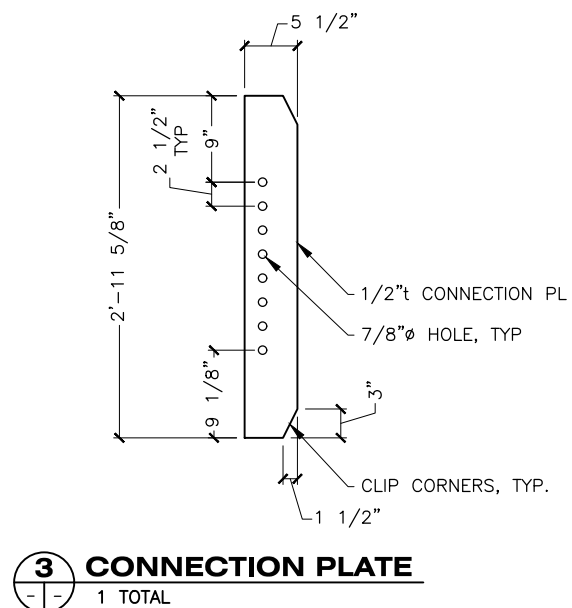
1 BENT 16 -MODIFICATIONS
1006/220/2021



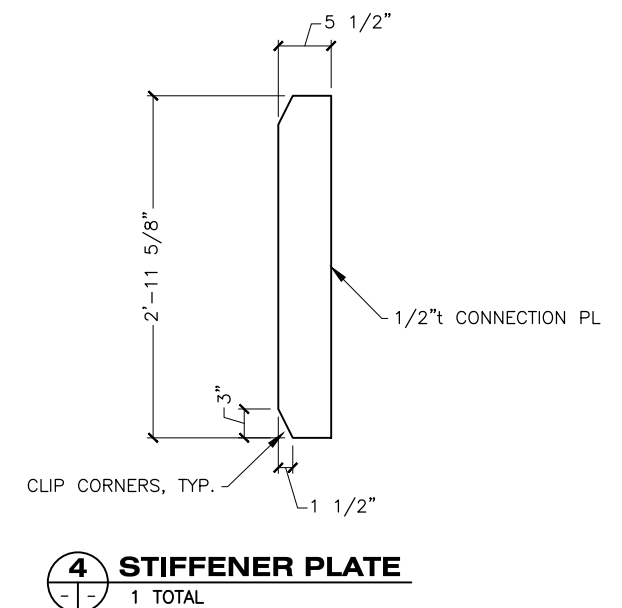
2 DIAPHRAGM F
1 TOTAL



A ELEVATION

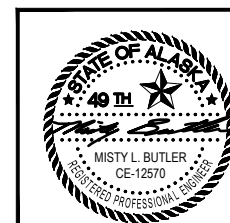


3 CONNECTION PLATE
1 TOTAL



4 STIFFENER PLATE
1 TOTAL

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

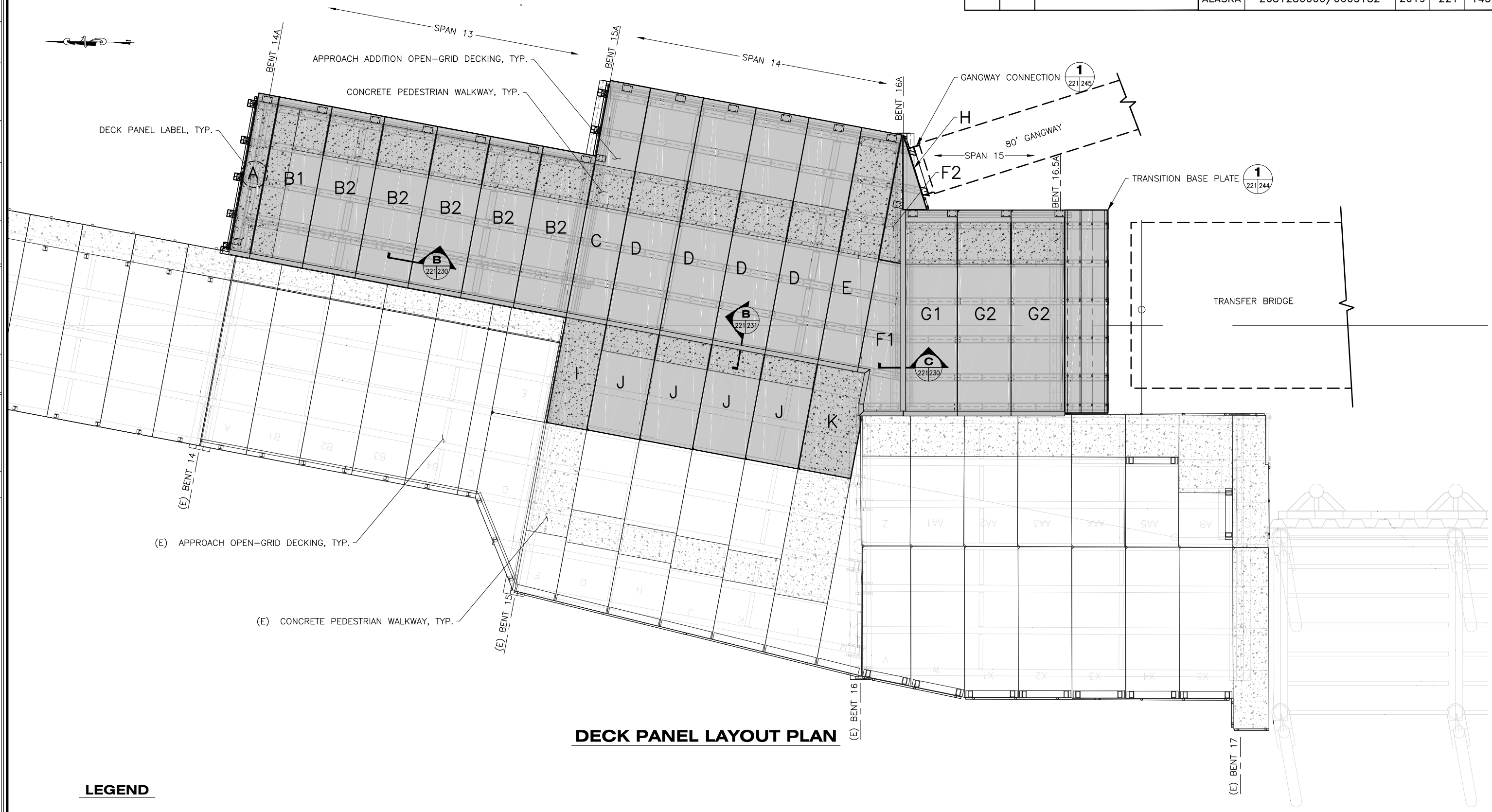
APPROACH ADDITION DIAPHRAGM DETAILS

HH 10/01/2024

3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	221	145

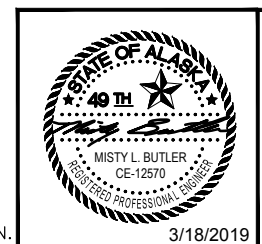
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 DATE 3/18/2019 13:54 LAYOUT 221
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



DECK PANEL LAYOUT PLAN

- LEGEND**
- NEW DECK PANEL
 - NEW CONCRETE PEDESTRIAN WALKWAY
 - X NEW PANEL DESIGNATION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



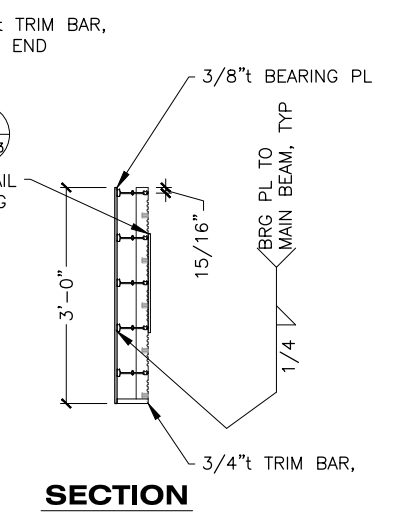
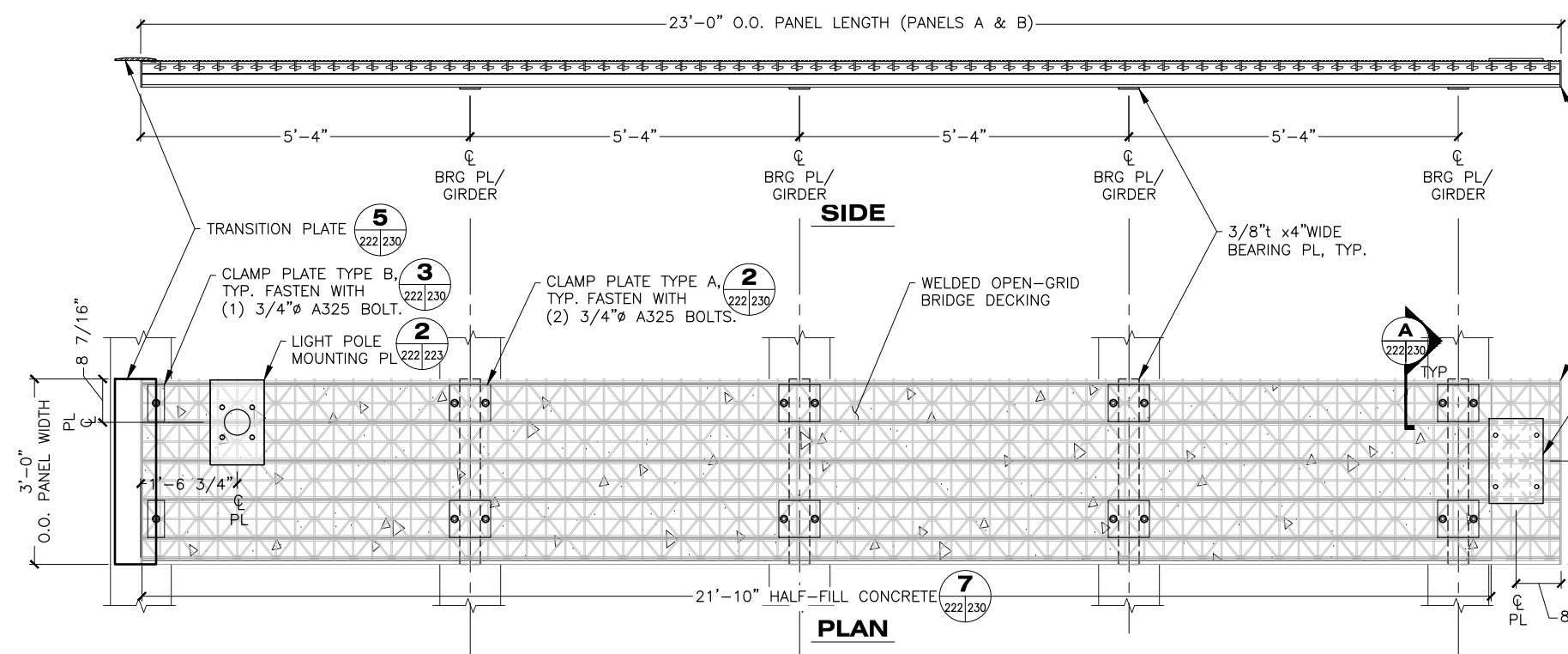
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

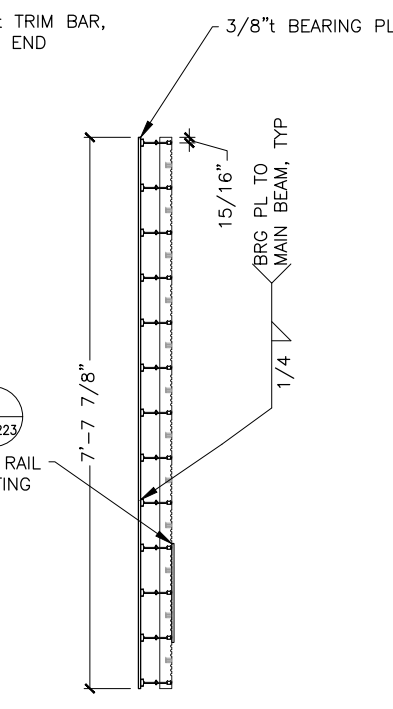
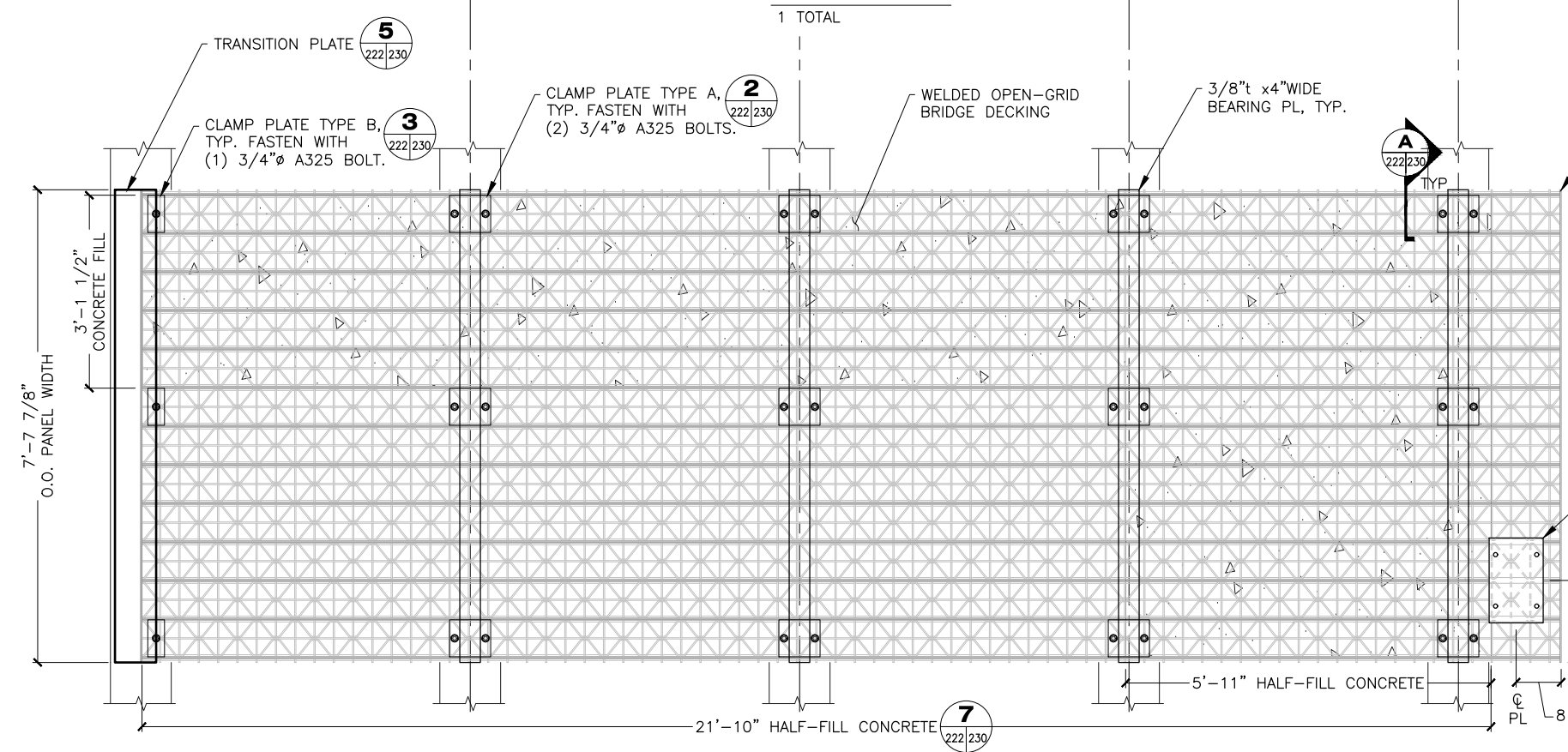
APPROACH ADDITION DECK PANEL LAYOUT
 HH 10/01/2024

3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	222	145

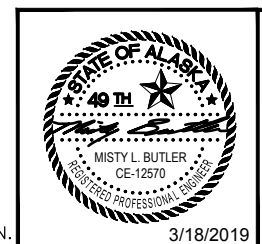


PANEL A
1 TOTAL



PANEL B1
1 TOTAL

SECTION



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

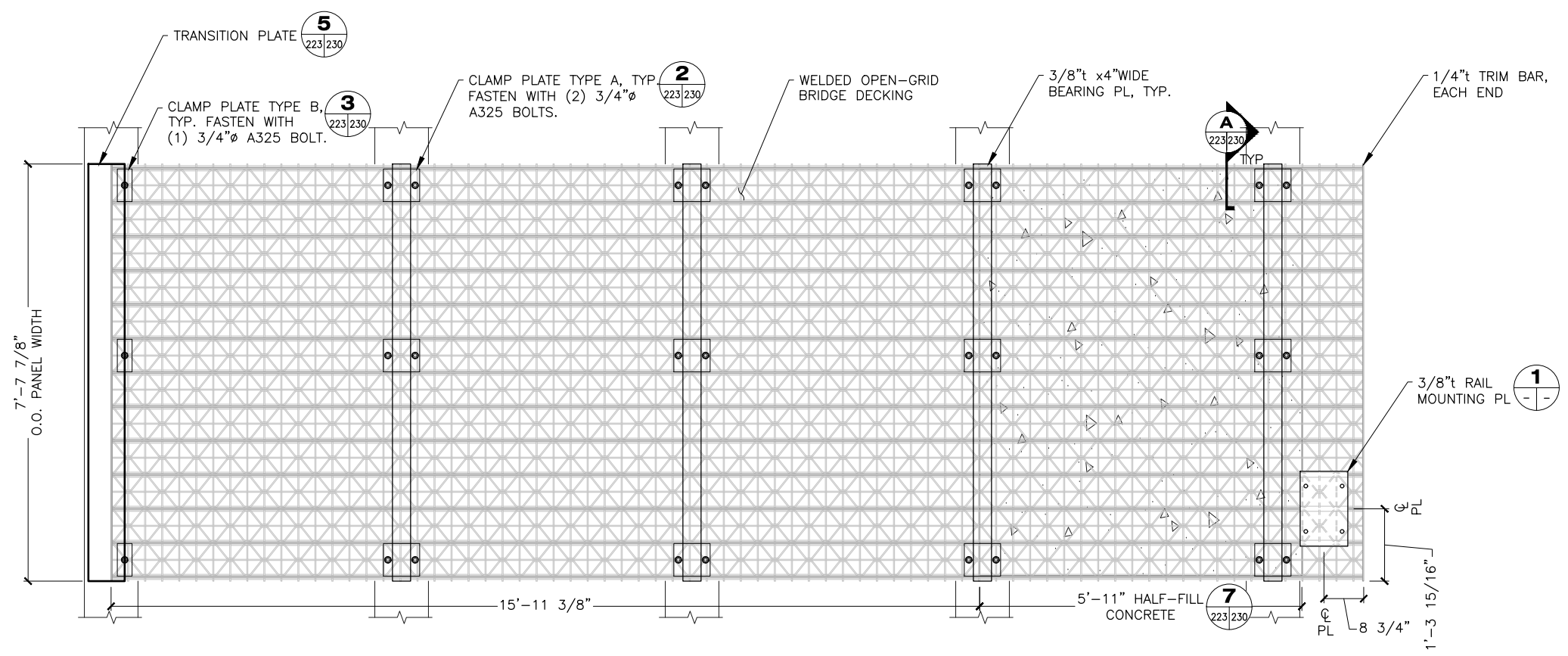
3/18/2019

HH 10/01/2024

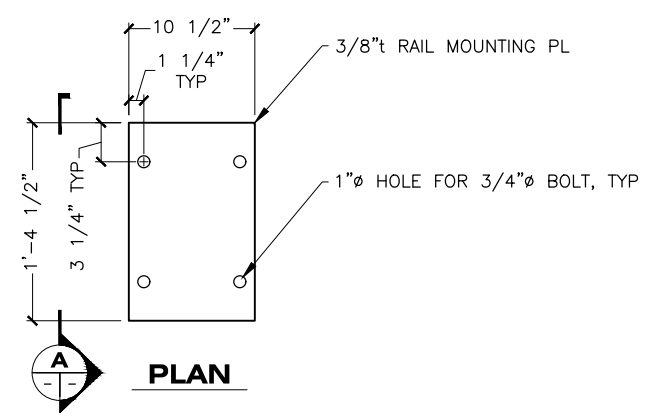
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	223	145

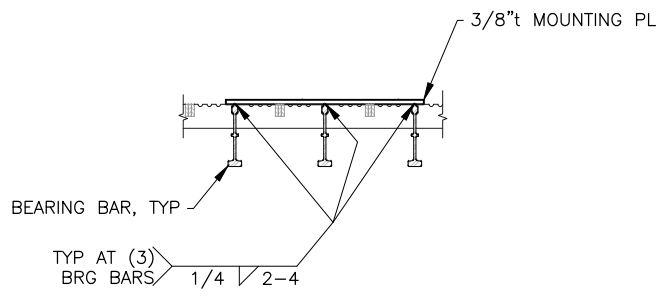
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 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



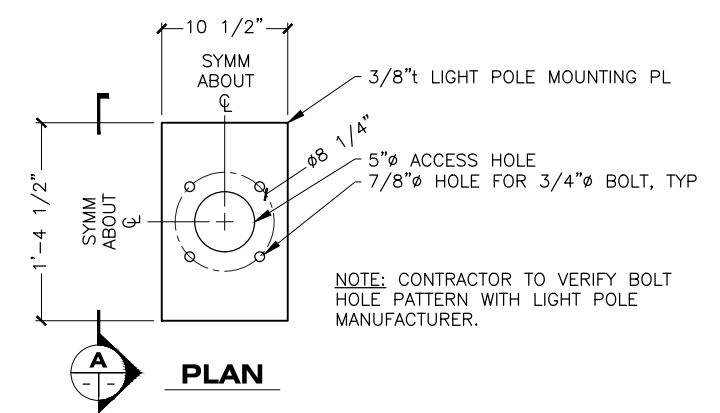
PANEL B2
 5 TOTAL
 NOTE: DETAILS NOT SHOWN SIMILAR TO PANEL B1.



1 RAIL MOUNTING PLATE
 222
 223
 224
 225
 226
 227

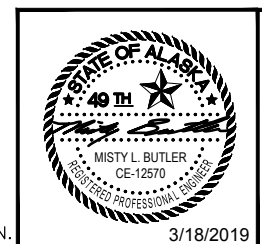


A WELD DETAIL



2 LIGHT POLE MOUNTING PLATE
 (3 TOTAL)
 222
 223
 224
 226
 243

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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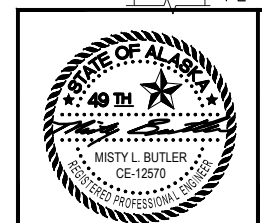
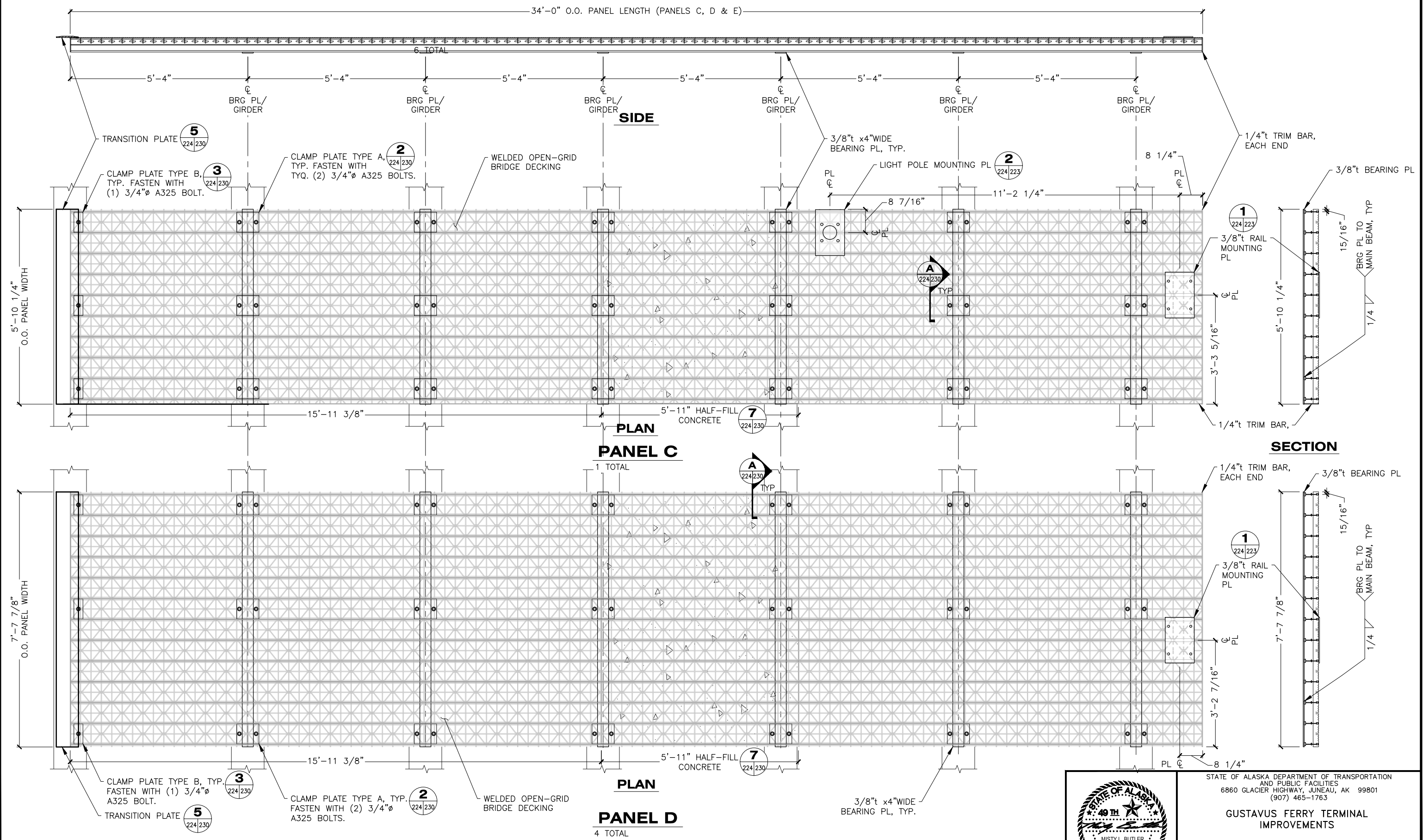
GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

APPROACH ADDITION
 DECK PANEL DETAILS

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	224	145

FILE G:\Gus\68128\WF\PLANSET\221-231 - APPROACH - DECK LAYOUT.dwg
 DATE 3/18/2019 14:55 LAYOUT 224
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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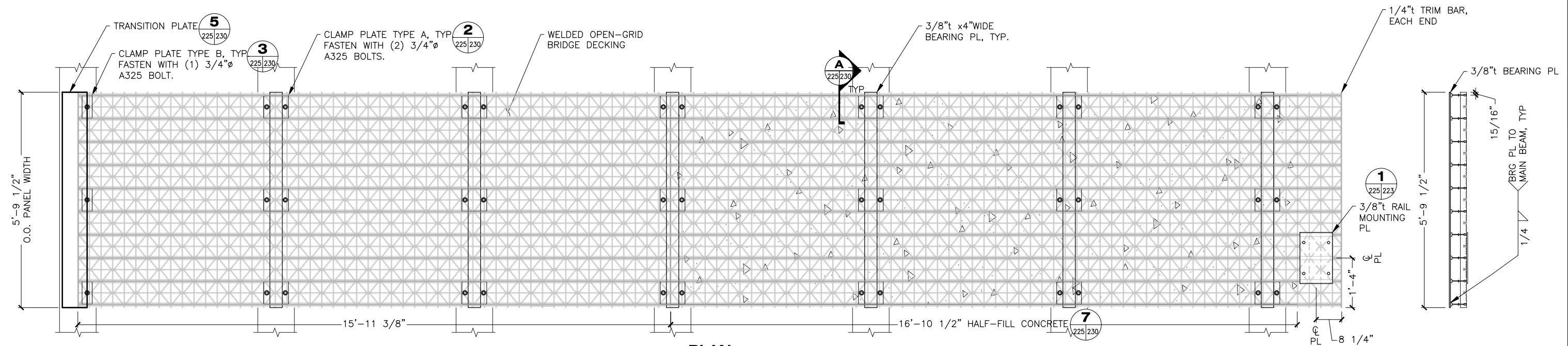
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	225	145



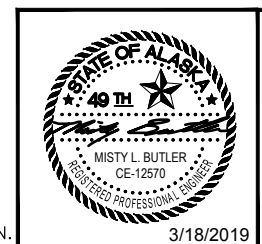
PLAN

PANEL E

1 TOTAL
 NOTE: DETAILS NOT SHOWN SIMILAR TO PANELS C & D.

SECTION

FILE q:\Gus\68128\WF\PLANSET\221-231 - APPROACH - DECK LAYOUT.dwg
 DATE 3/18/2019 13:54 LAYOUT 225
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

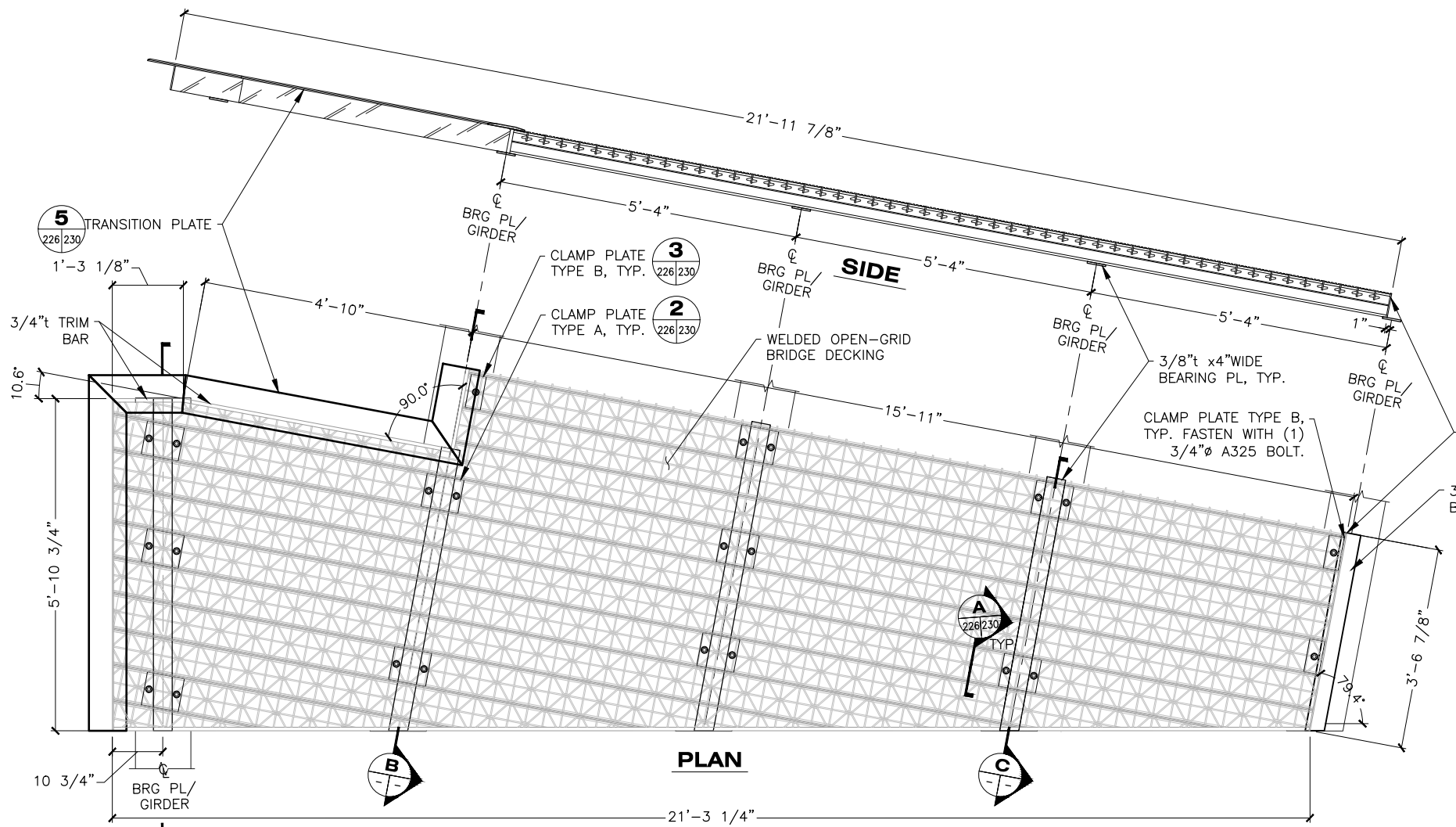
APPROACH ADDITION
 DECK PANEL DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

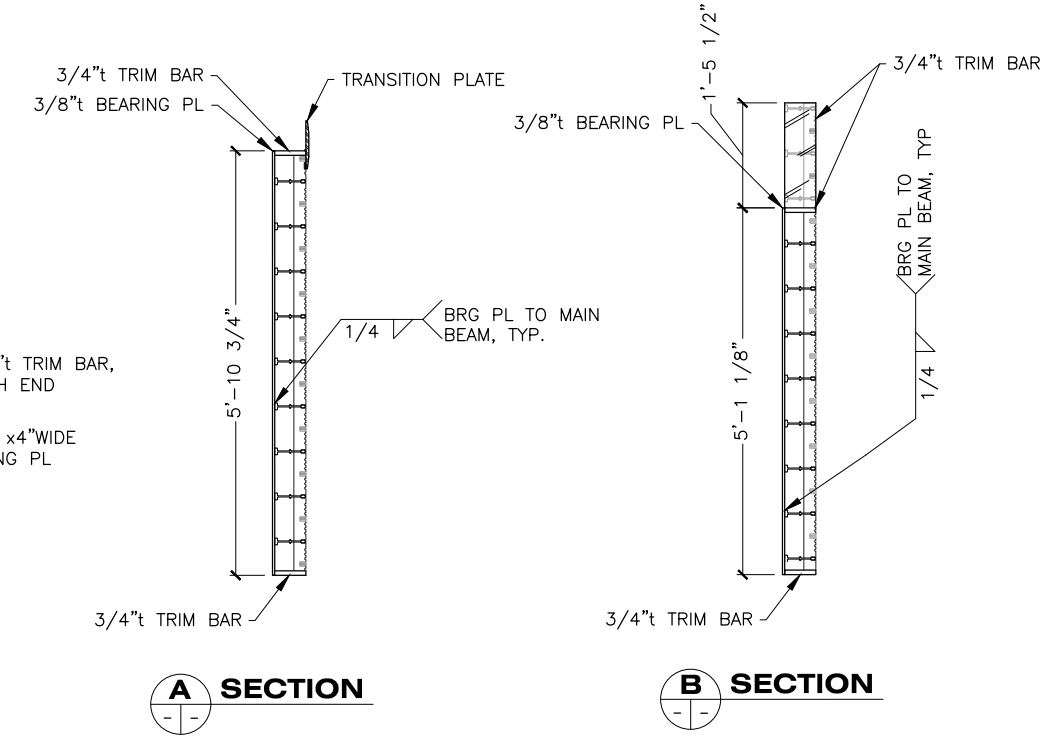
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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FILE: q:\08128\WF\PLANSET\221-231 - APPROACH - DECK LAYOUT.dwg
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 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

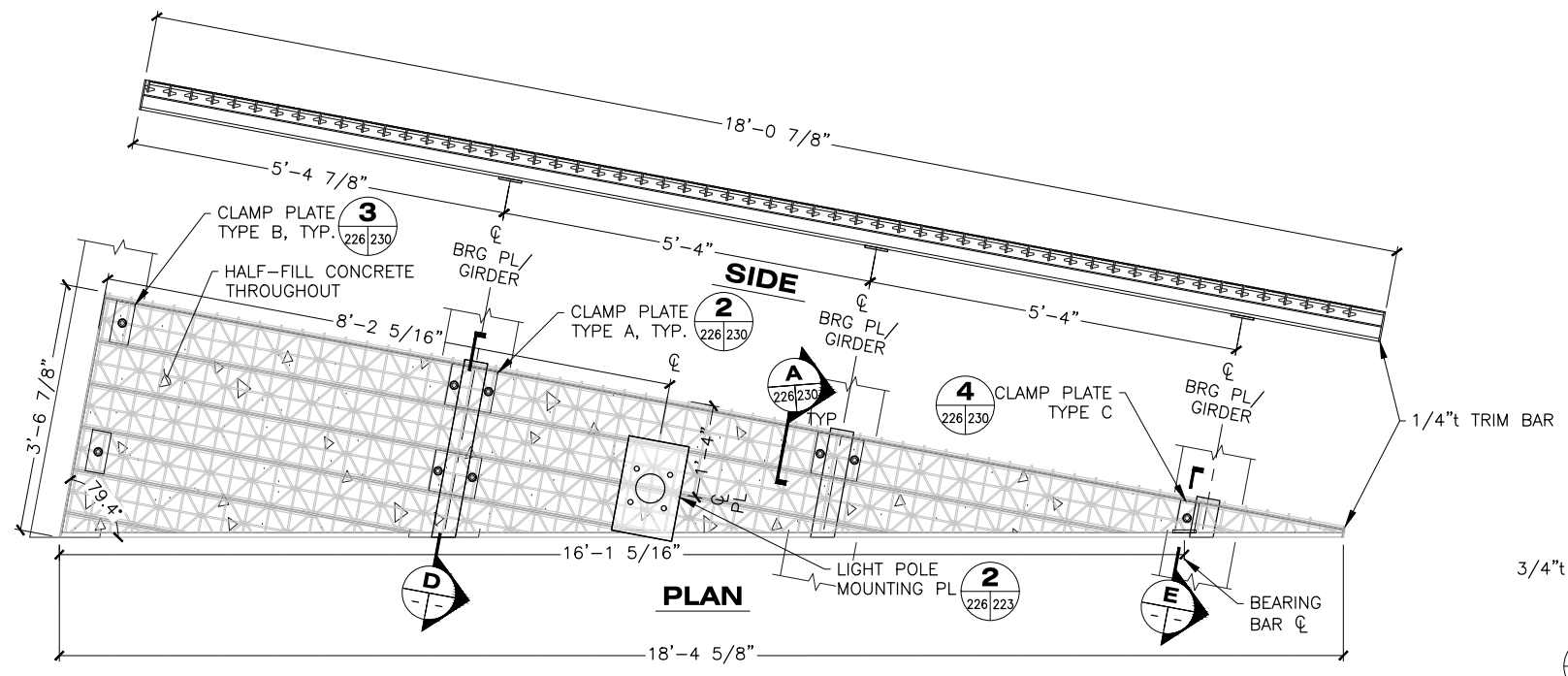


PANEL F-1
1 TOTAL

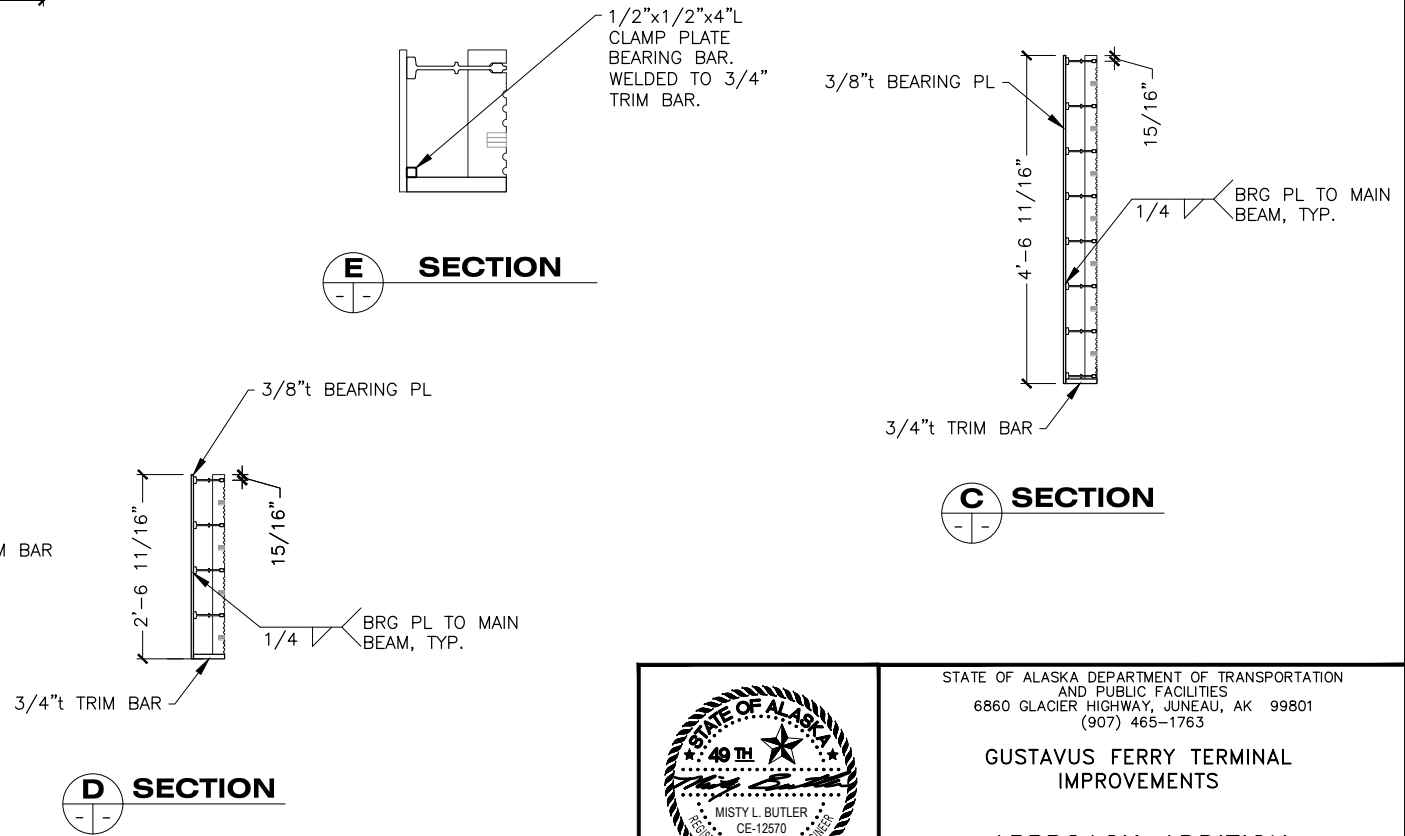


A SECTION

B SECTION



PANEL F-2
1 TOTAL

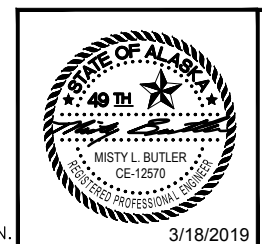


E SECTION

C SECTION

D SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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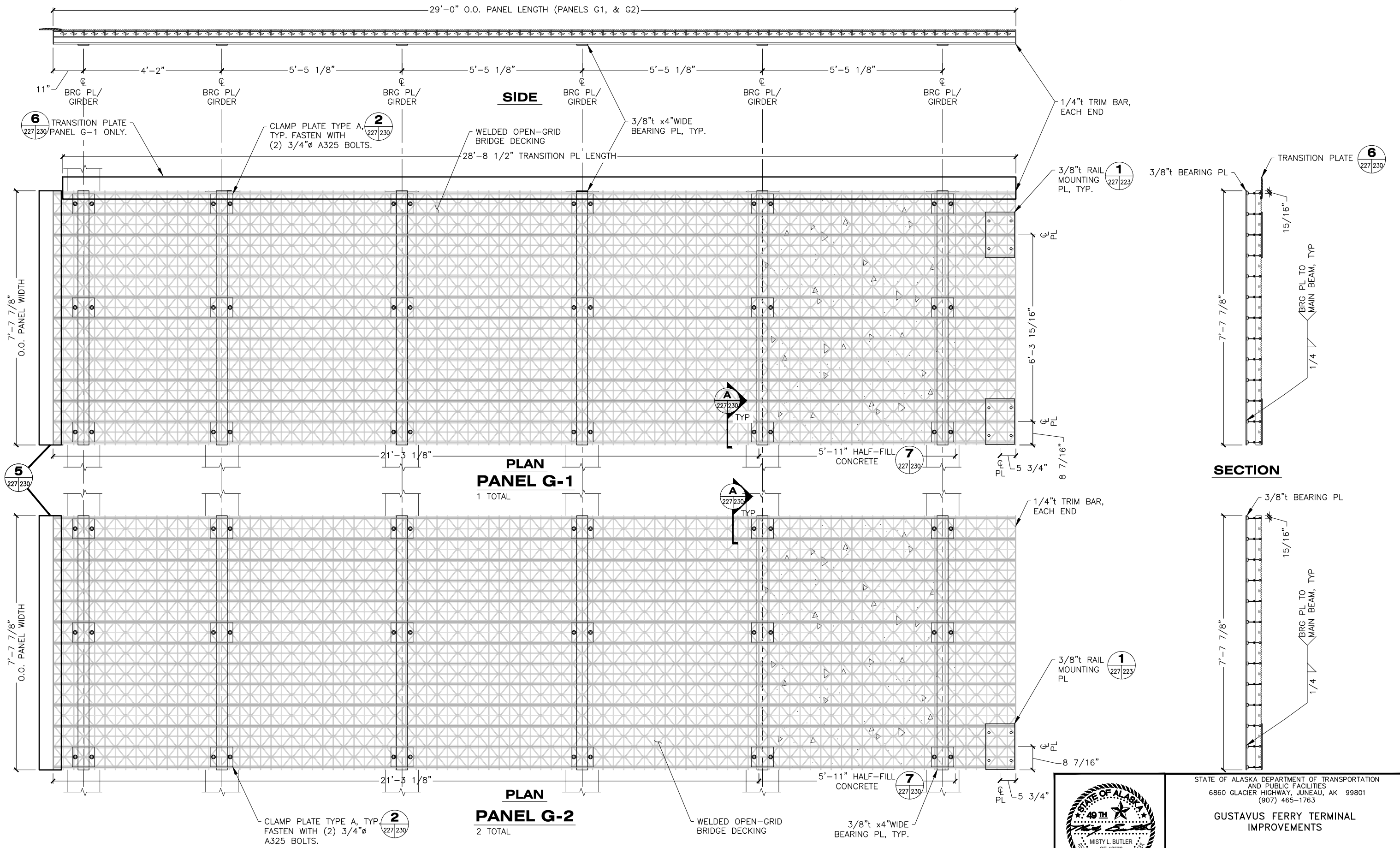
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	227	145

FILE: q:\us\68128\WF\PLANSET\221-231 - APPROACH - DECK LAYOUT.dwg
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 DRAFTED: STAFF



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



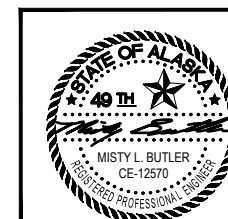
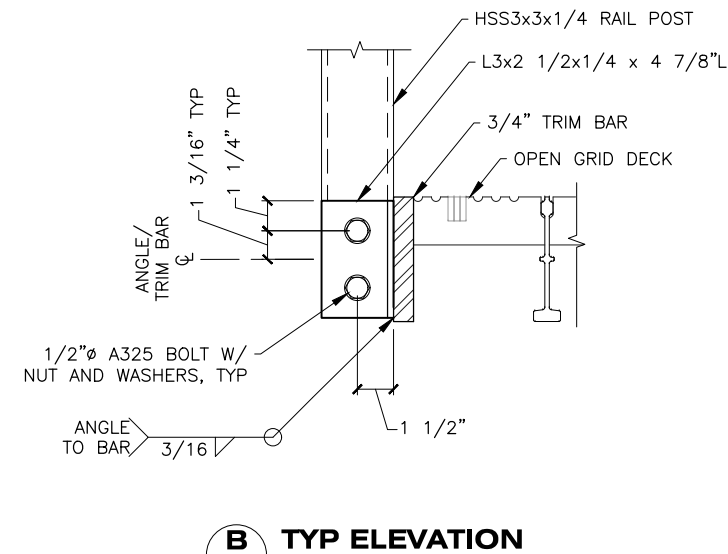
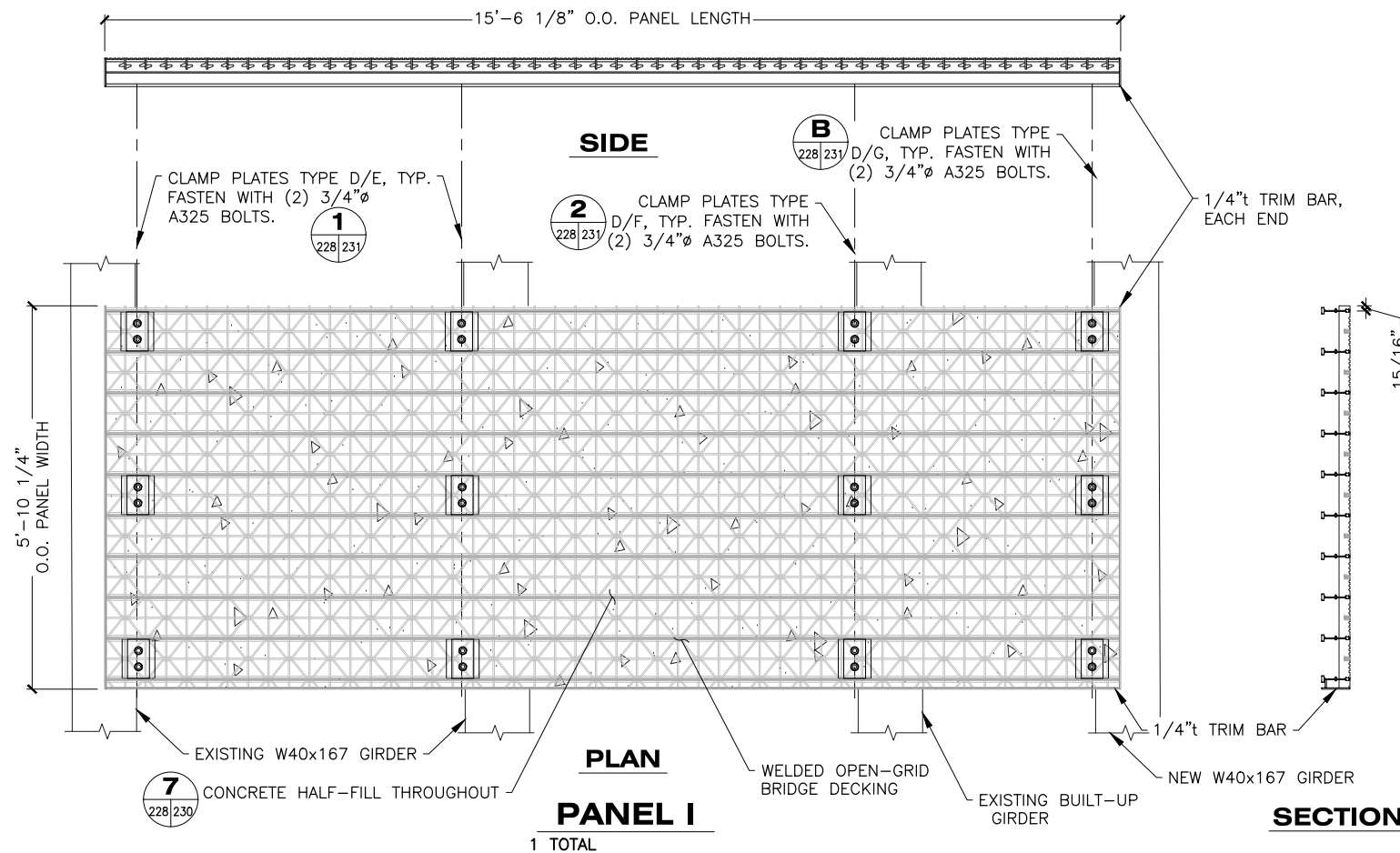
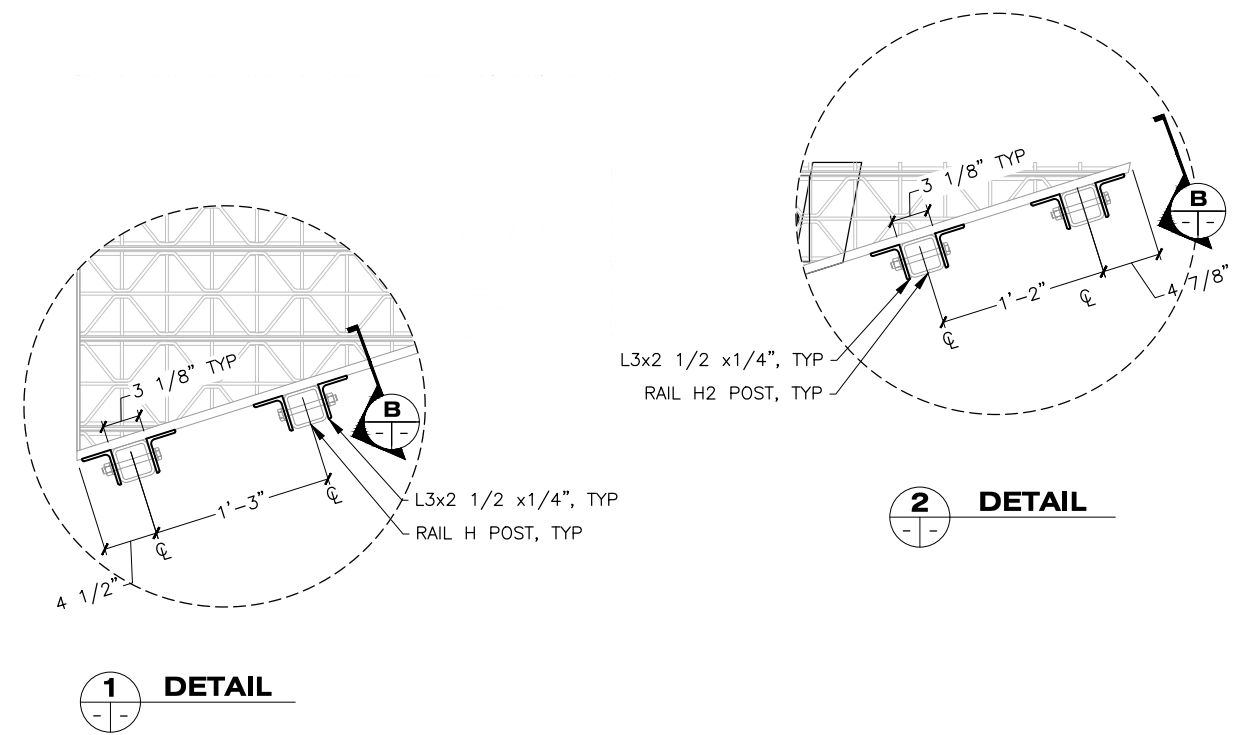
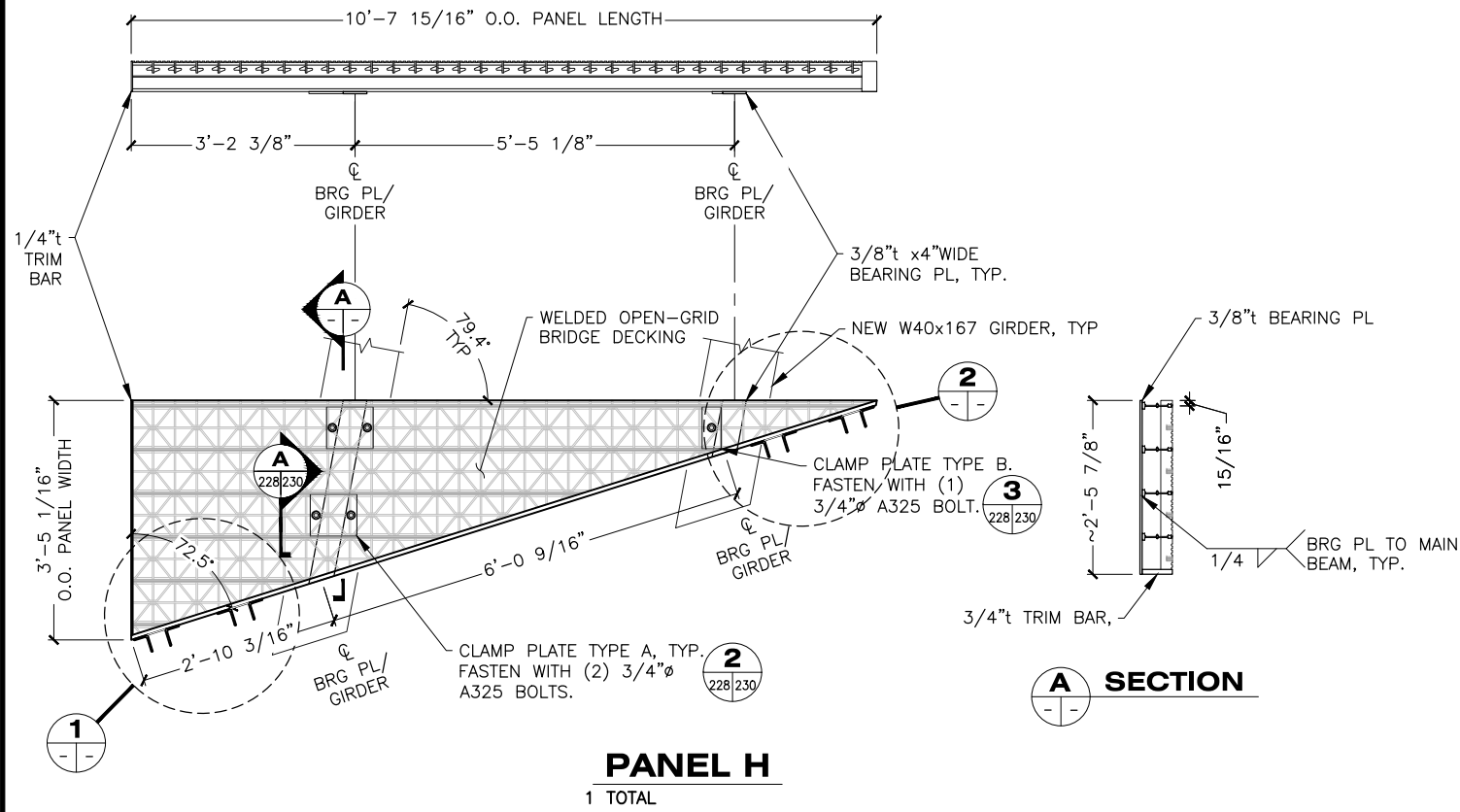
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	228	145



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

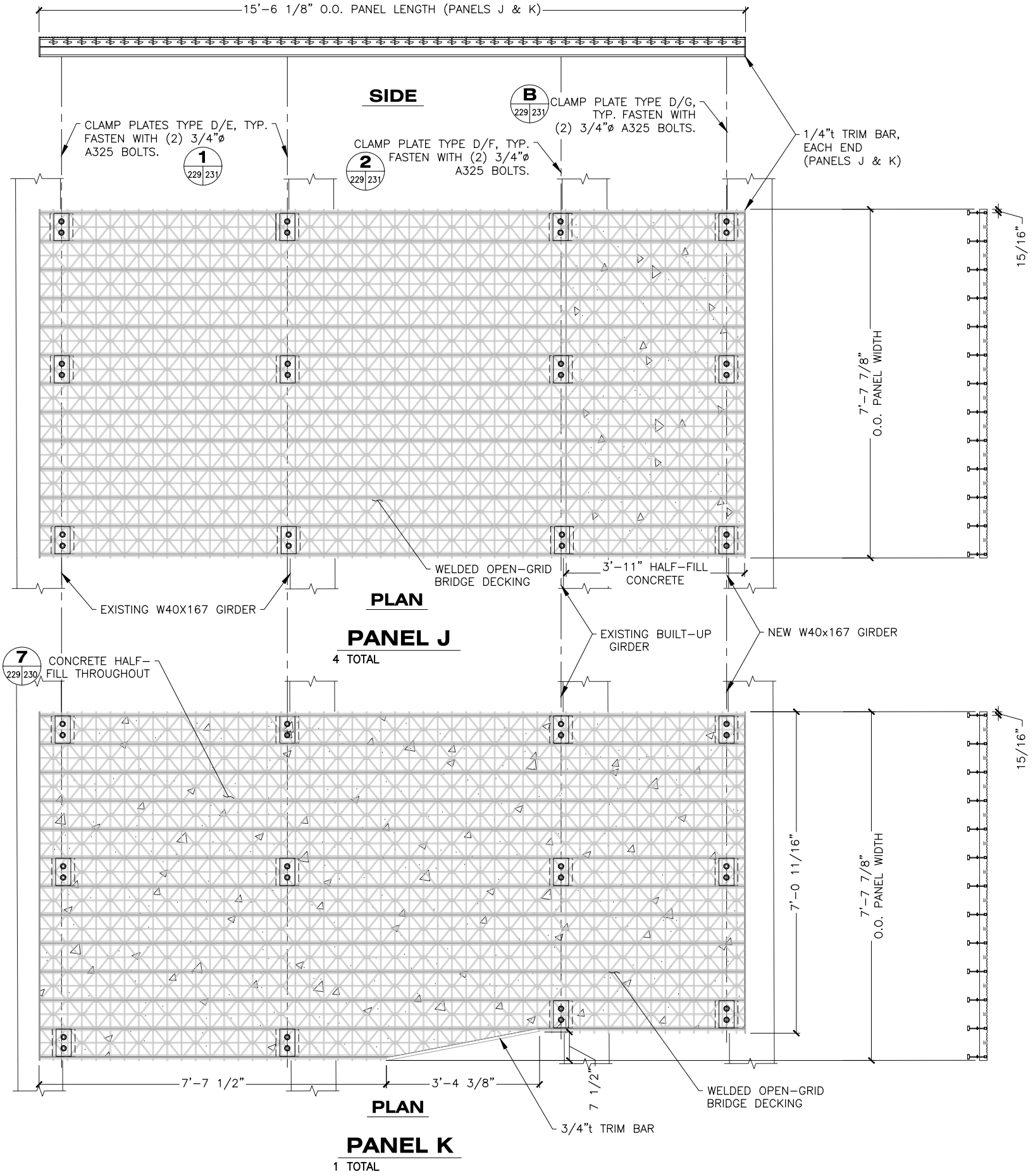
3/18/2019

HH 10/01/2024

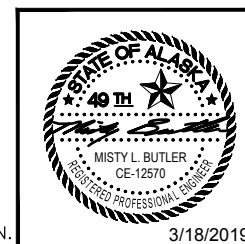
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 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	229	145

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 CHECKED: STAFF
 DRAFTED: STAFF



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

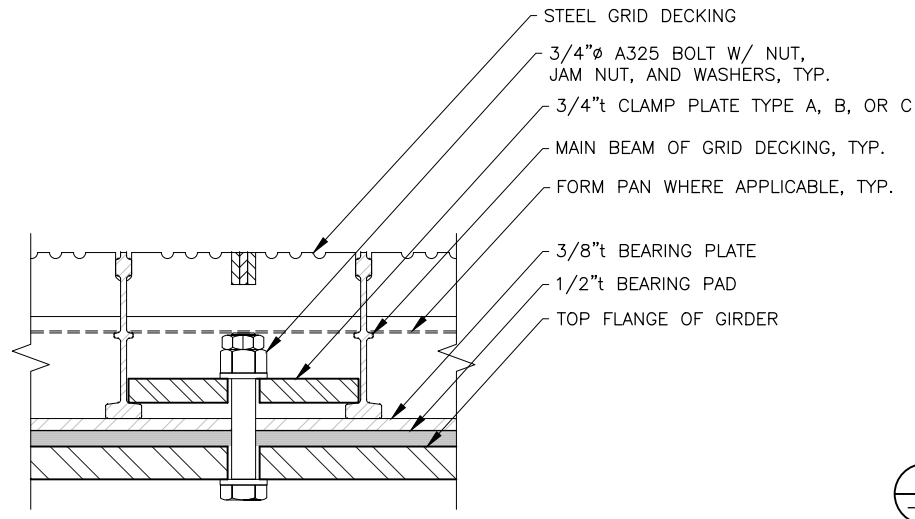
APPROACH ADDITION DECK PANEL DETAILS

3/18/2019

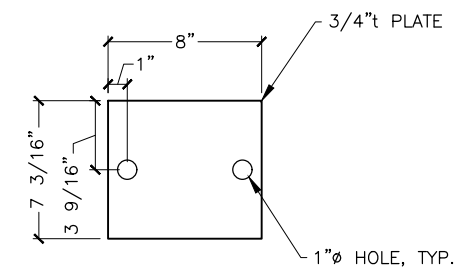
HH 10/01/2024

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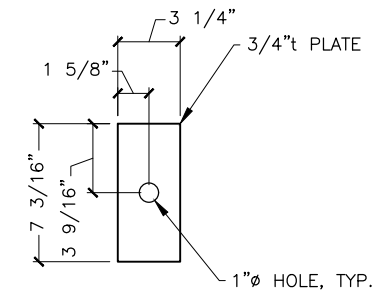
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	230	145



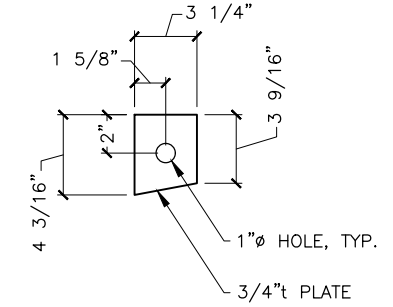
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2 CLAMP PLATE TYPE A
 - 230 257 TOTAL
 223 226
 224 227
 225 228
 225

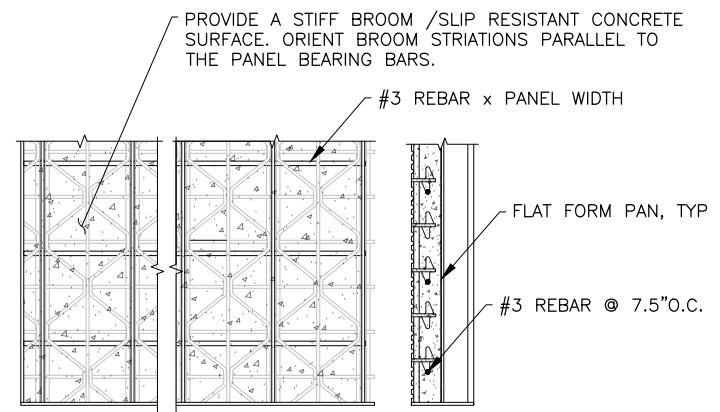


3 CLAMP PLATE TYPE B
 - 230 44 TOTAL
 223 226
 224 228
 225 231

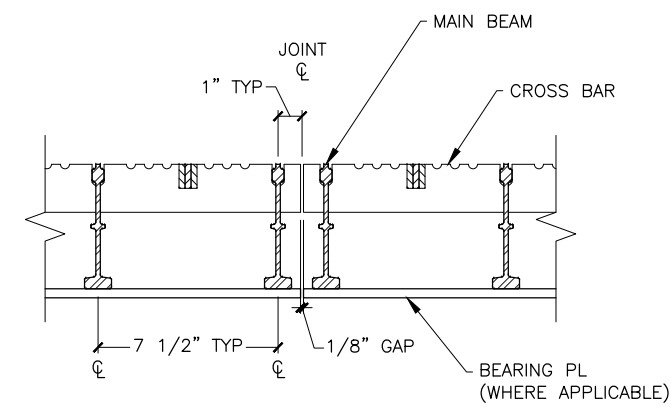


4 CLAMP PLATE TYPE C
 - 230 1 TOTAL
 226

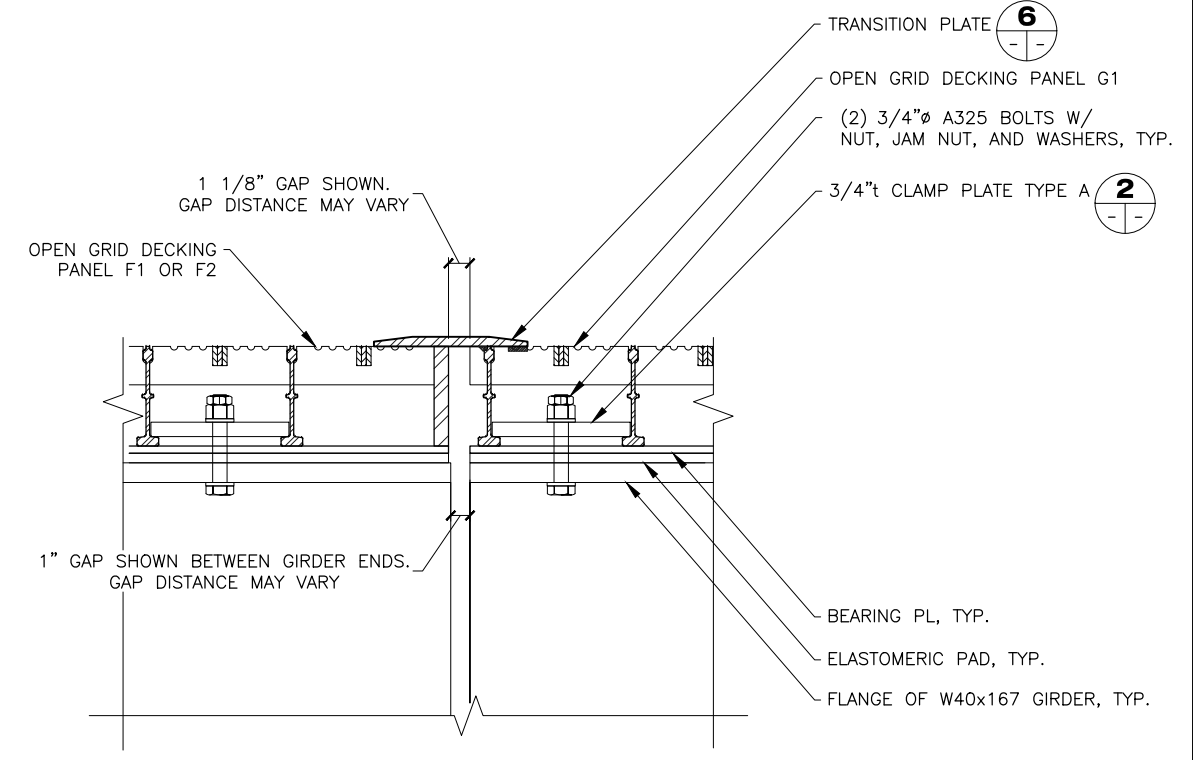
A TYP CLAMP PLATE ASSEMBLY DETAIL
 222 230
 223 226
 224 227
 225 228



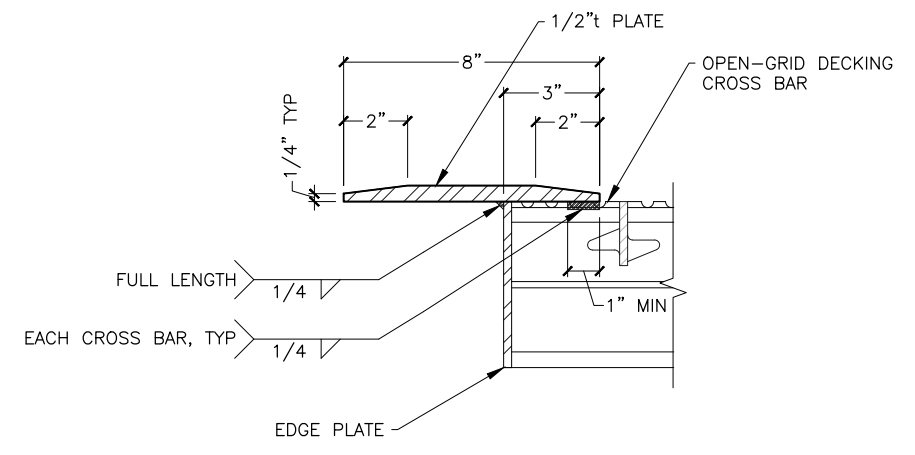
7 DETAIL
 223 230
 224 227
 225 228
 226 229



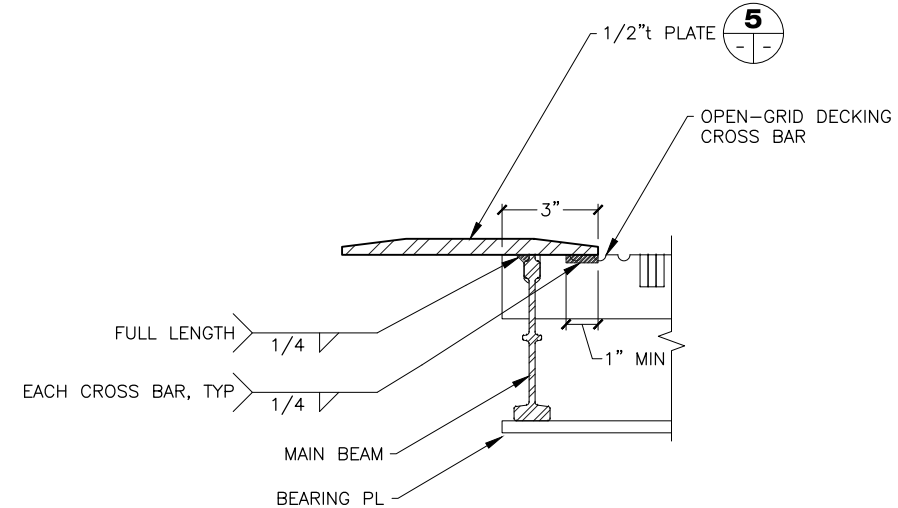
B TYPICAL GRATING JOINT
 221 230



C DETAIL
 221 230

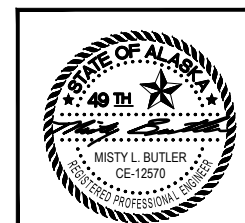


5 TYP TRANSITION PLATE DETAIL
 222 230
 223 226
 224 227
 225 231



6 TRANSITION PLATE DETAIL
 - 230 227

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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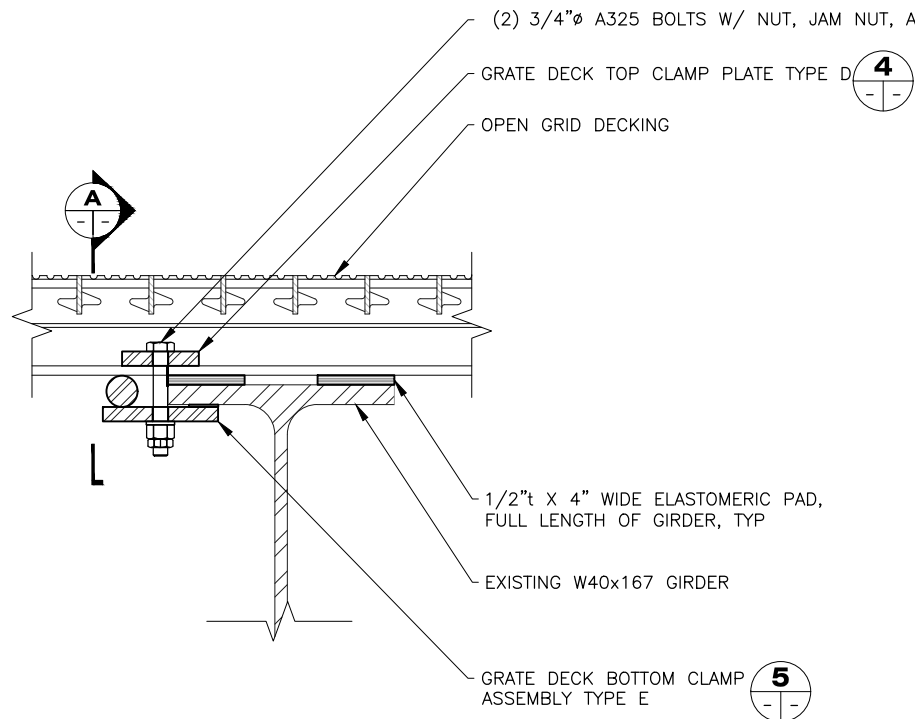
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS
 HH 10/01/2024

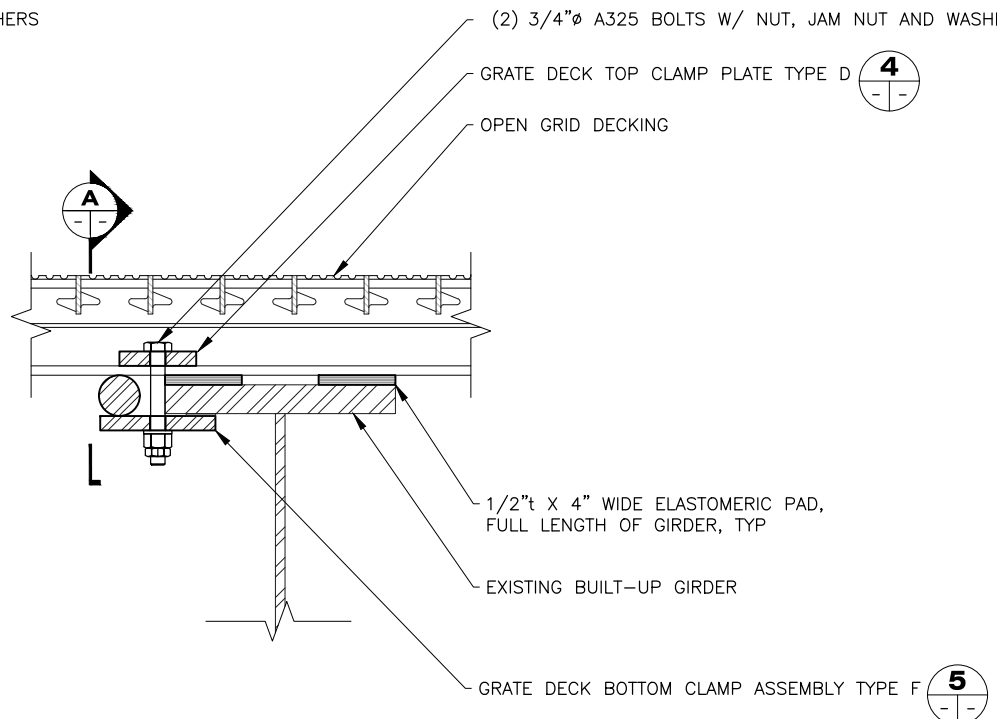
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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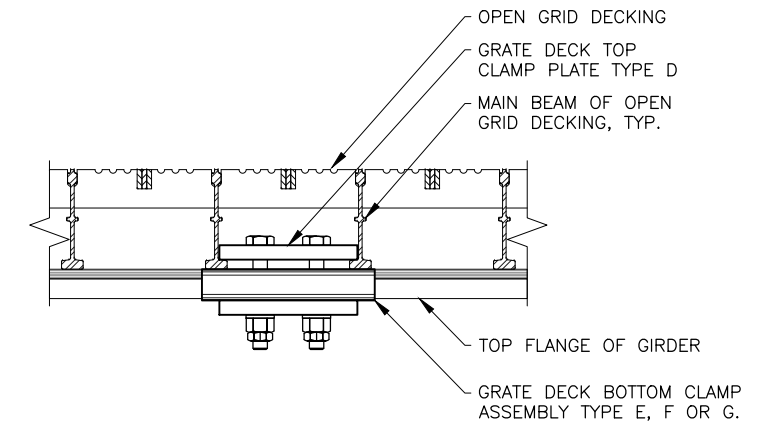
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 DATE: 3/18/2019 13:54
 LAYOUT: 231
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



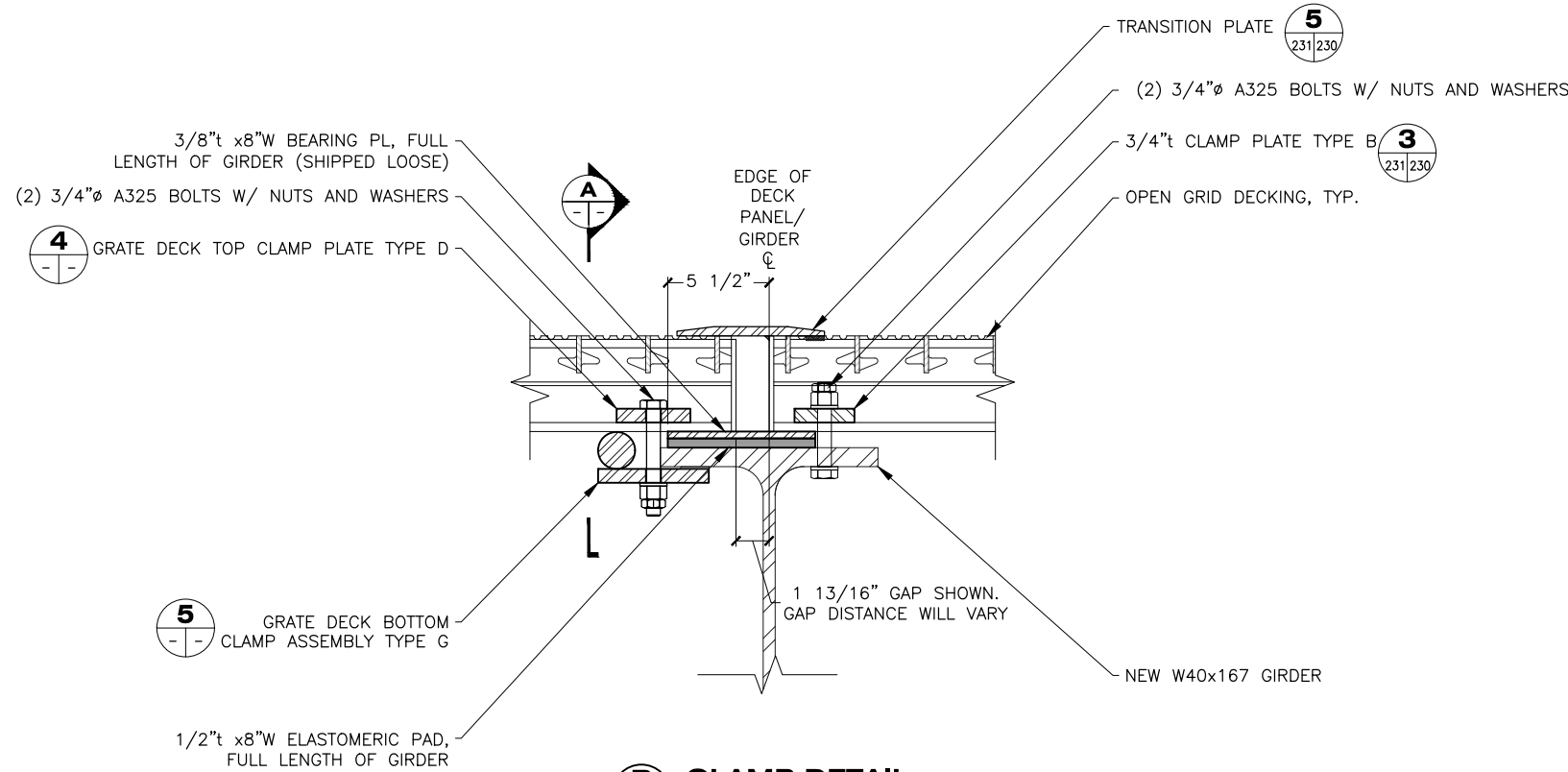
1 CLAMP DETAIL
228 231
229



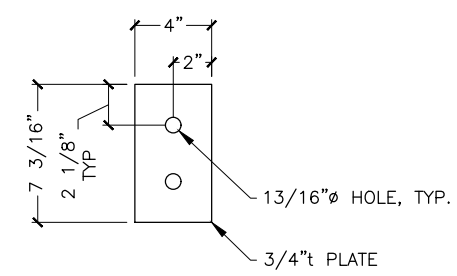
2 CLAMP DETAIL
228 231
229



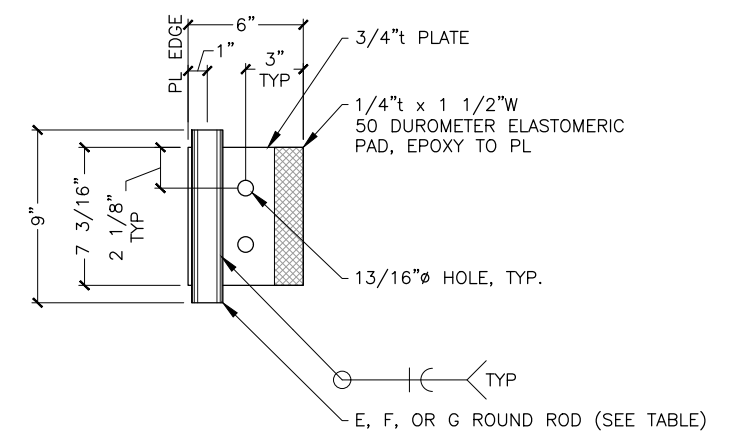
A TYP ELEVATION



B CLAMP DETAIL
103 231
221
228
229

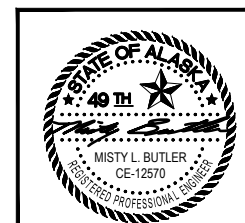


4 TOP CLAMP PLATE
72 TOTAL TYPE D



5 BOTTOM CLAMP ASSEMBLY
TYPE E, F, & G

LETTER DESIGNATION	ROD DIAMETER	BOTTOM PLATE TYPE	QTY
E	1.625"	TYPE E	36
F	2.125"	TYPE F	18
G	2.000"	TYPE G	18



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION DECK PANEL DETAILS

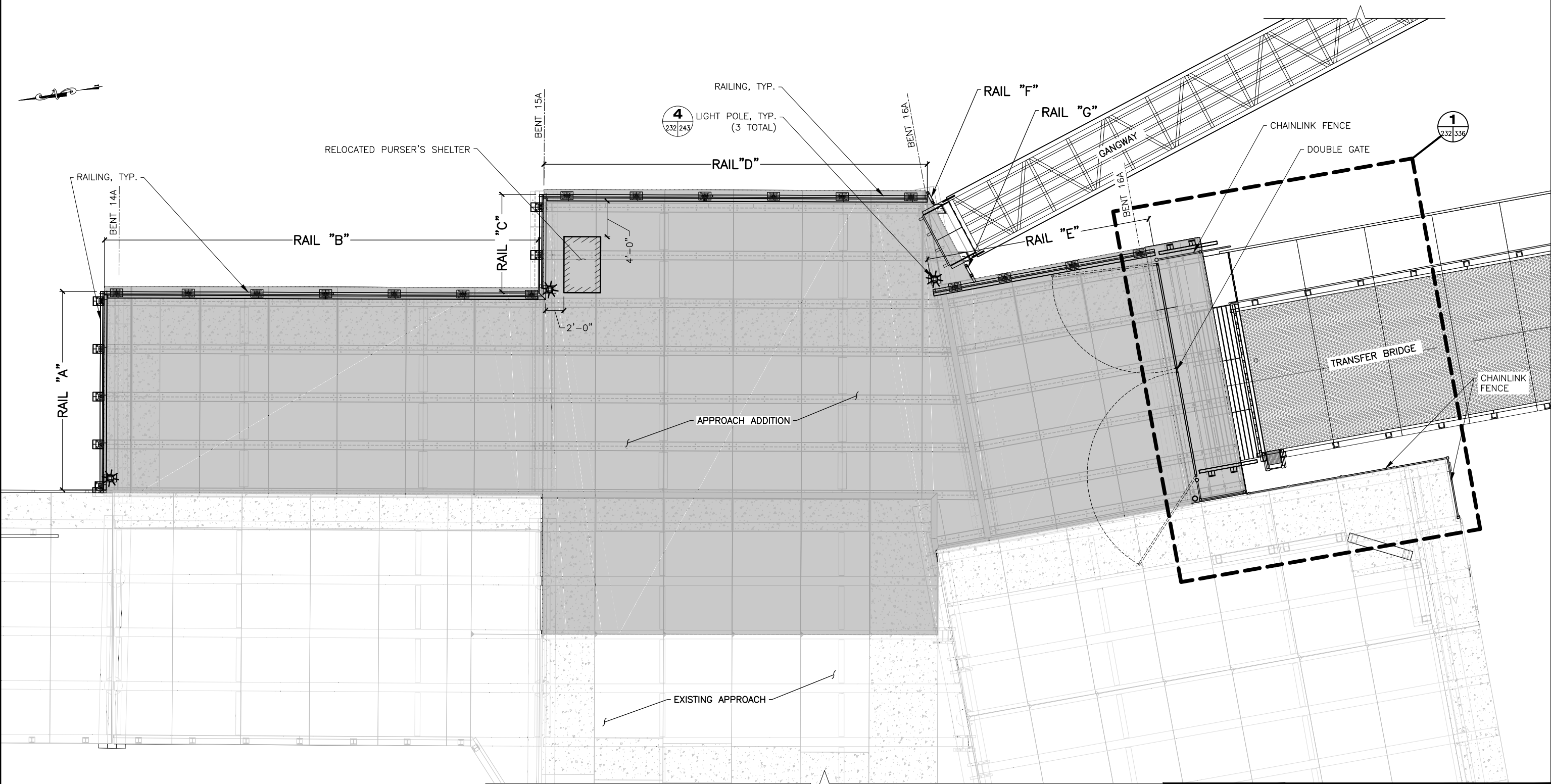
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

HH 10/01/2024

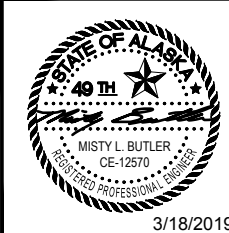
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	232	145

FILE q:\Gus\68128\WF\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg DATE 3/18/2019 13:54 LAYOUT 232 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF



APPROACH ADDITION RAILING PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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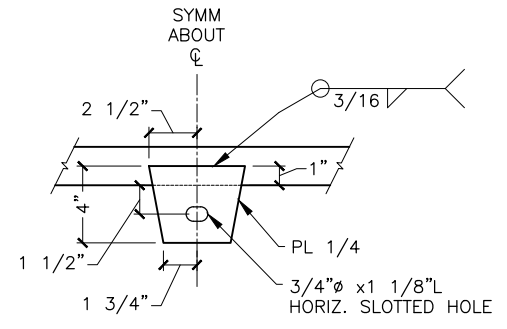
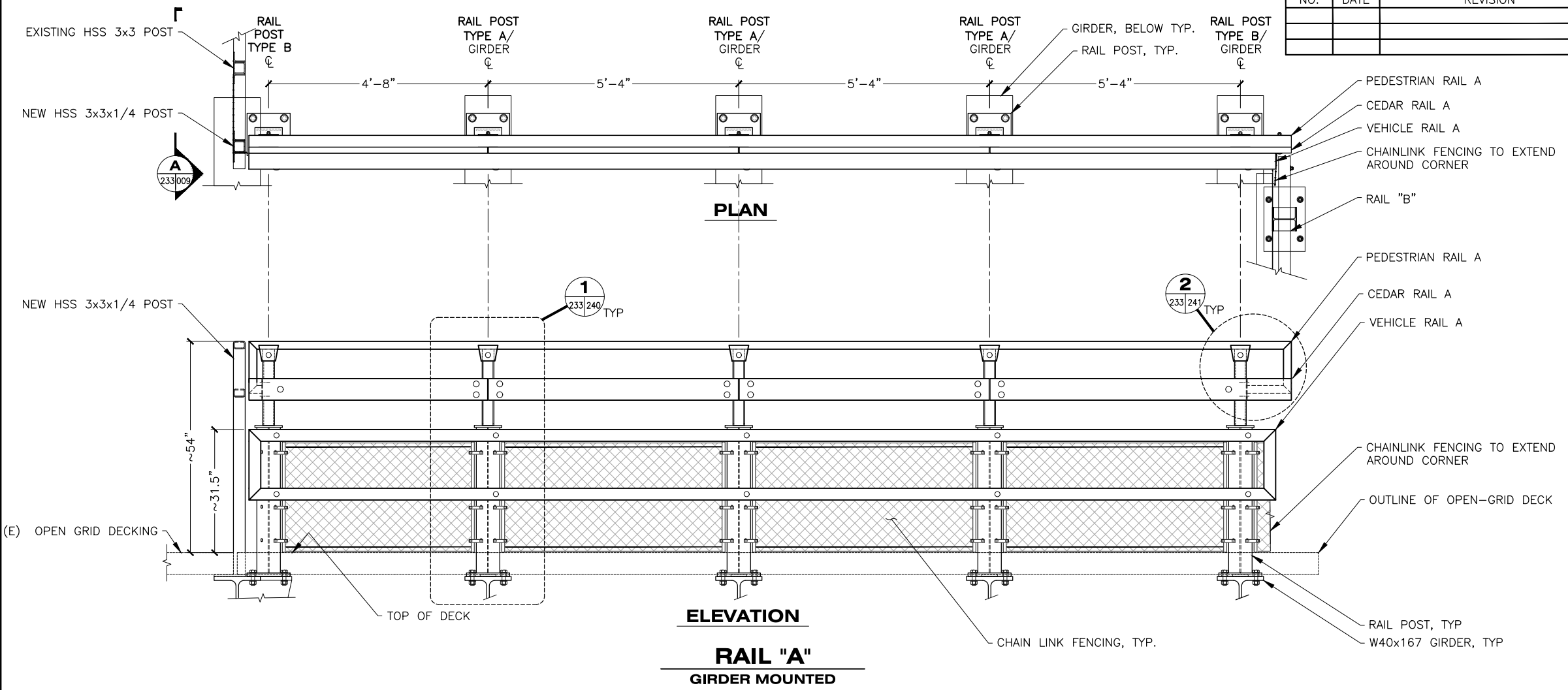
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION RAIL LAYOUT

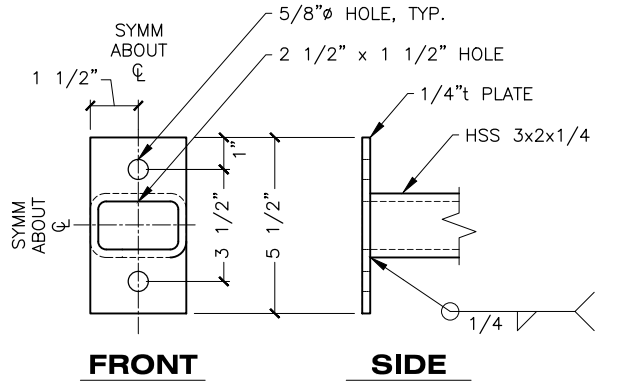
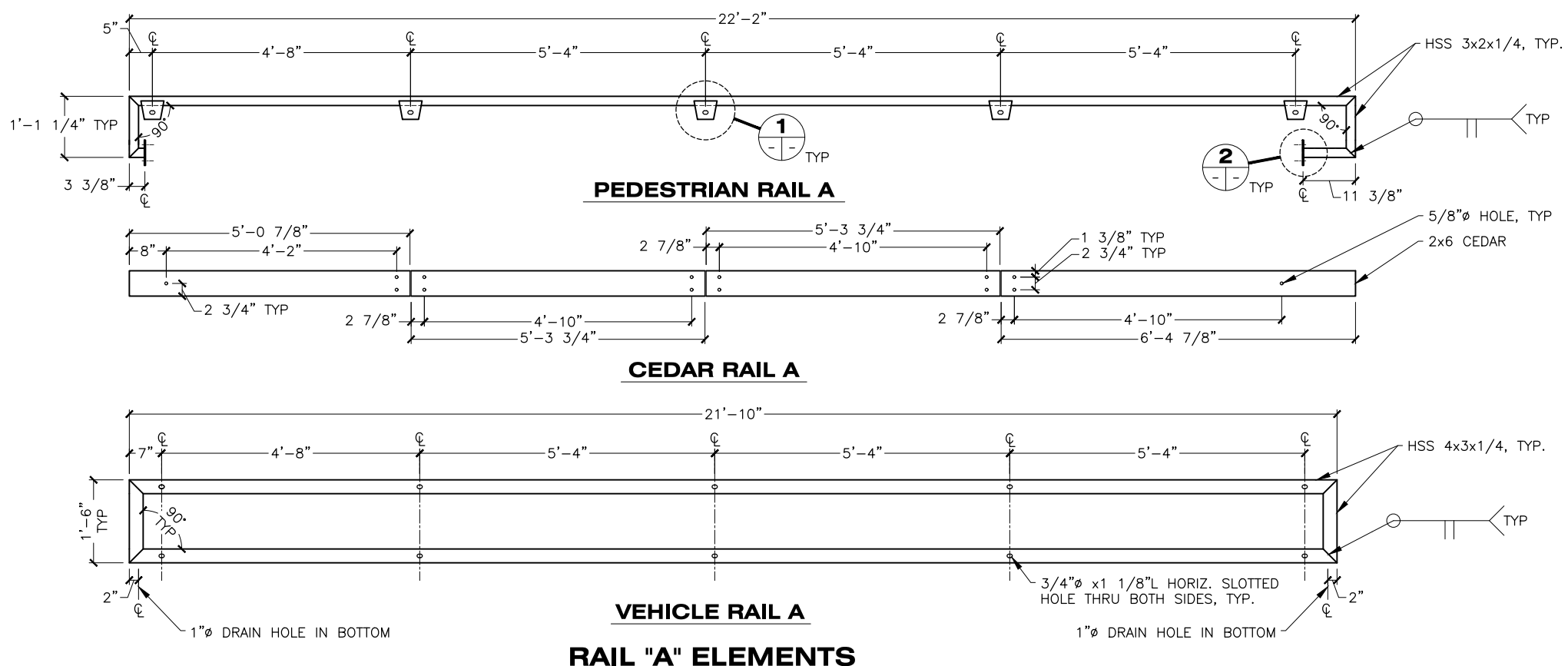
HH 10/01/2024

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	233	145



1 TYP DETAIL
- 233
234/238
235/239
236/241
237



2 TYP DETAIL
- 233
234/238
235/239
236/241
237

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

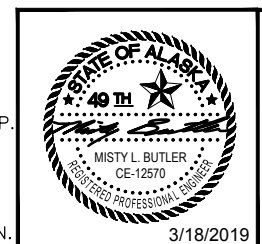
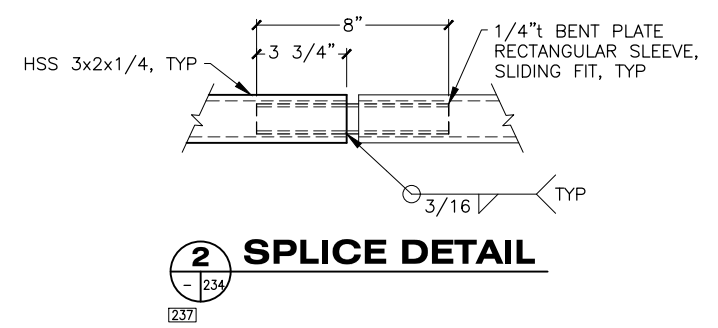
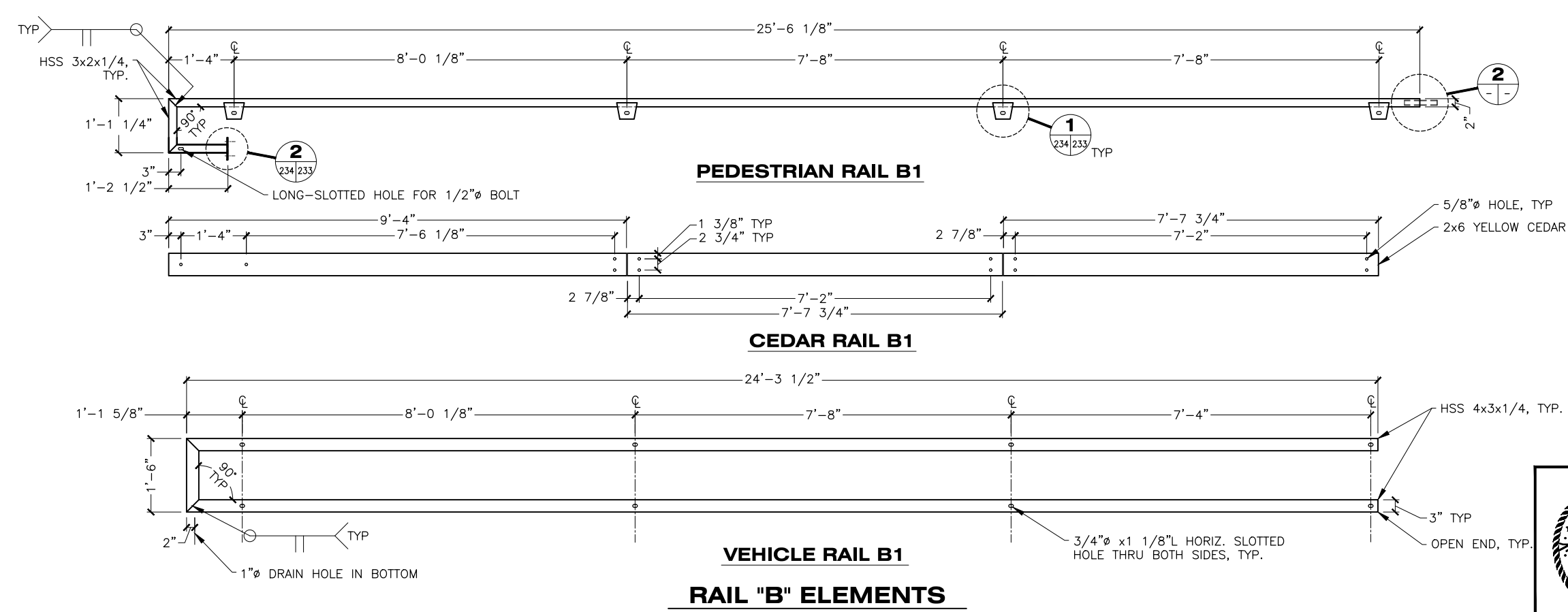
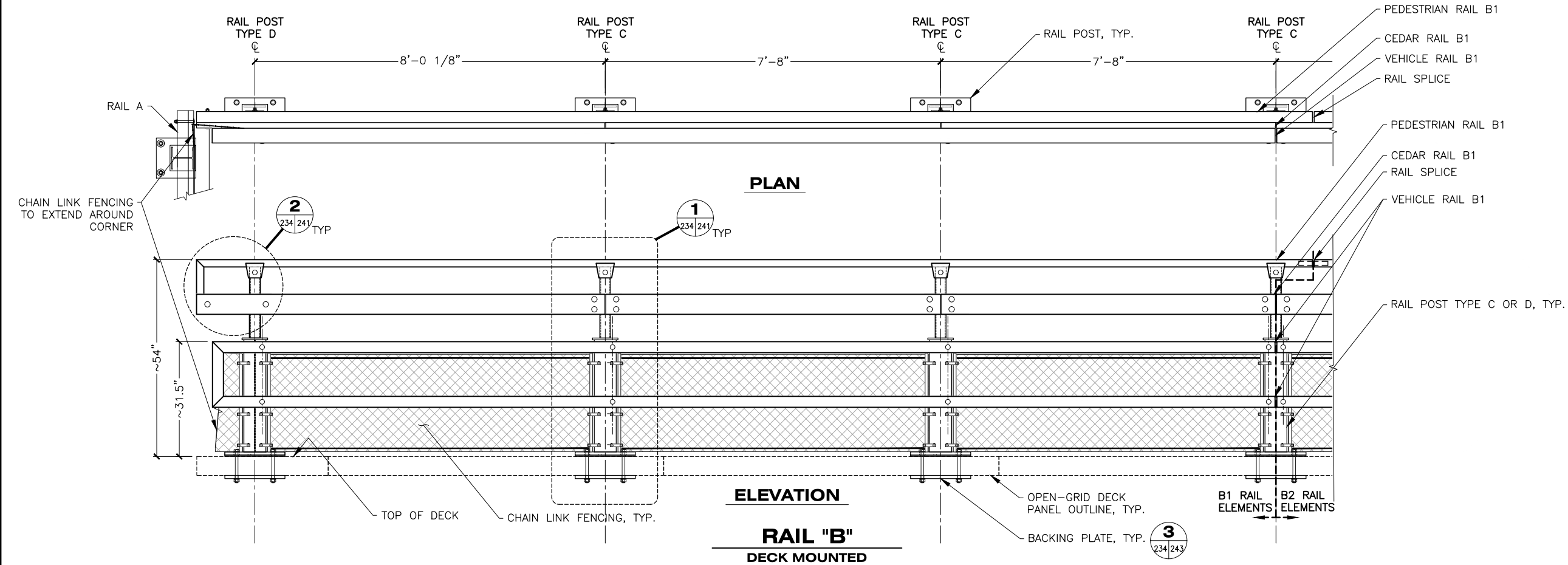


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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APPROACH ADDITION
RAIL ELEMENT "A"
3/18/2019

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	234	145

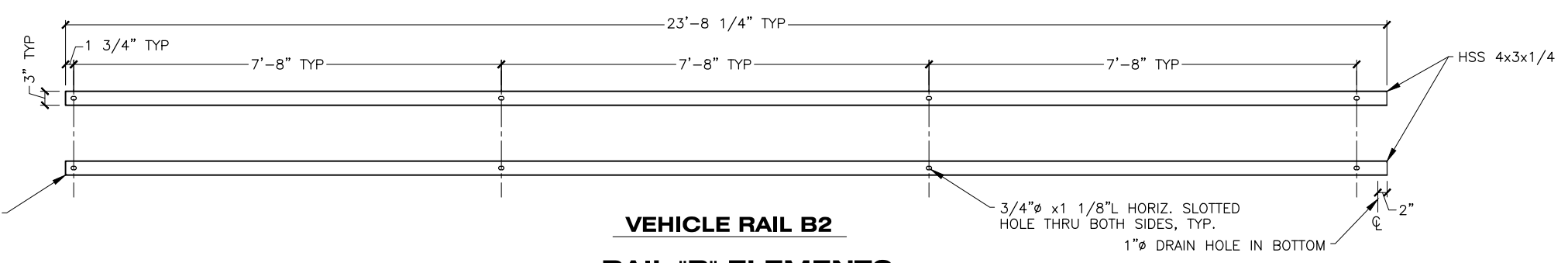
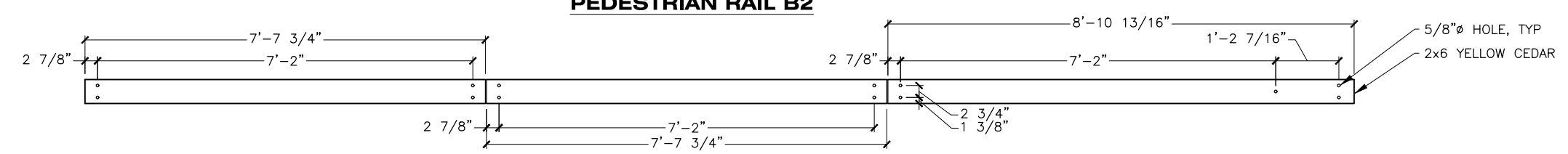
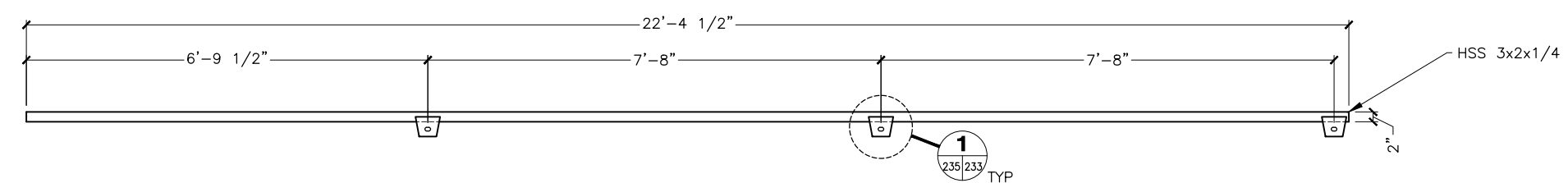
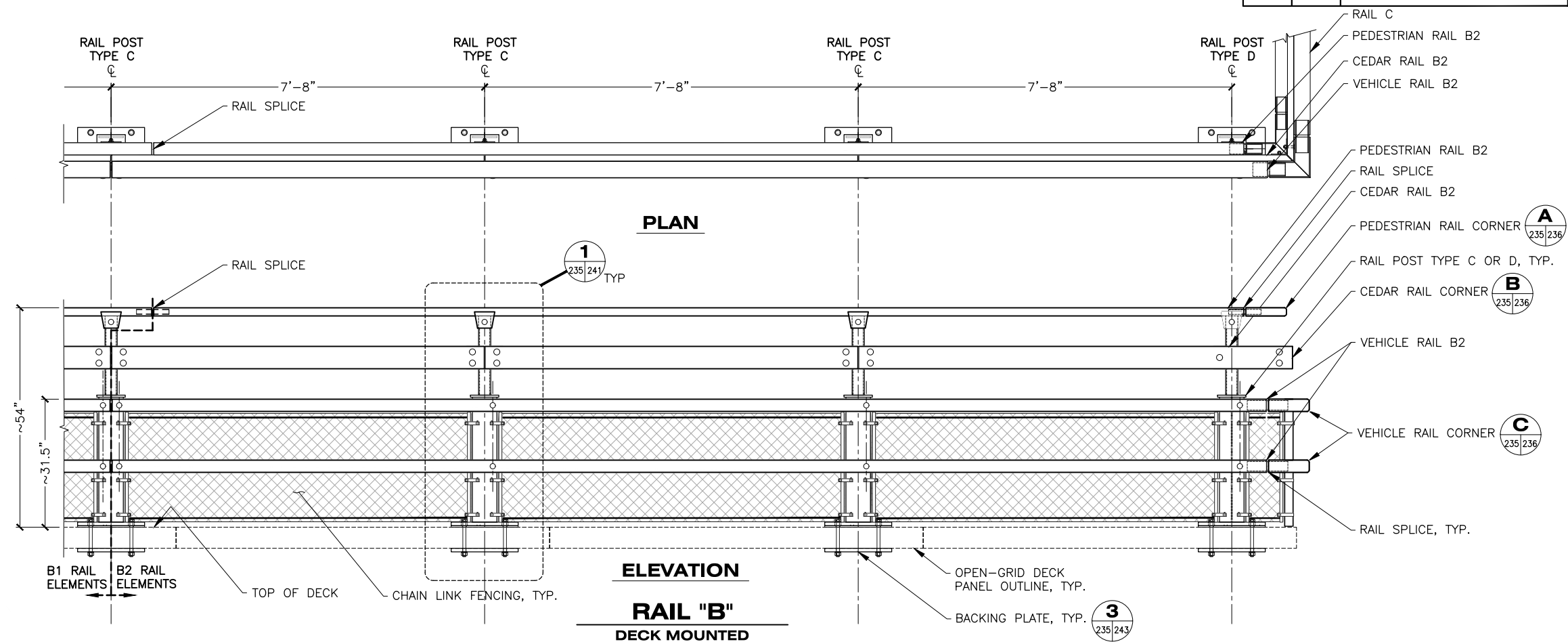
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 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



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 IMPROVEMENTS
 APPROACH ADDITION
 RAIL ELEMENT "B1"
 HH 10/01/2024

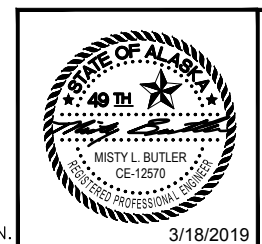
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	235	145



RAIL "B" ELEMENTS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

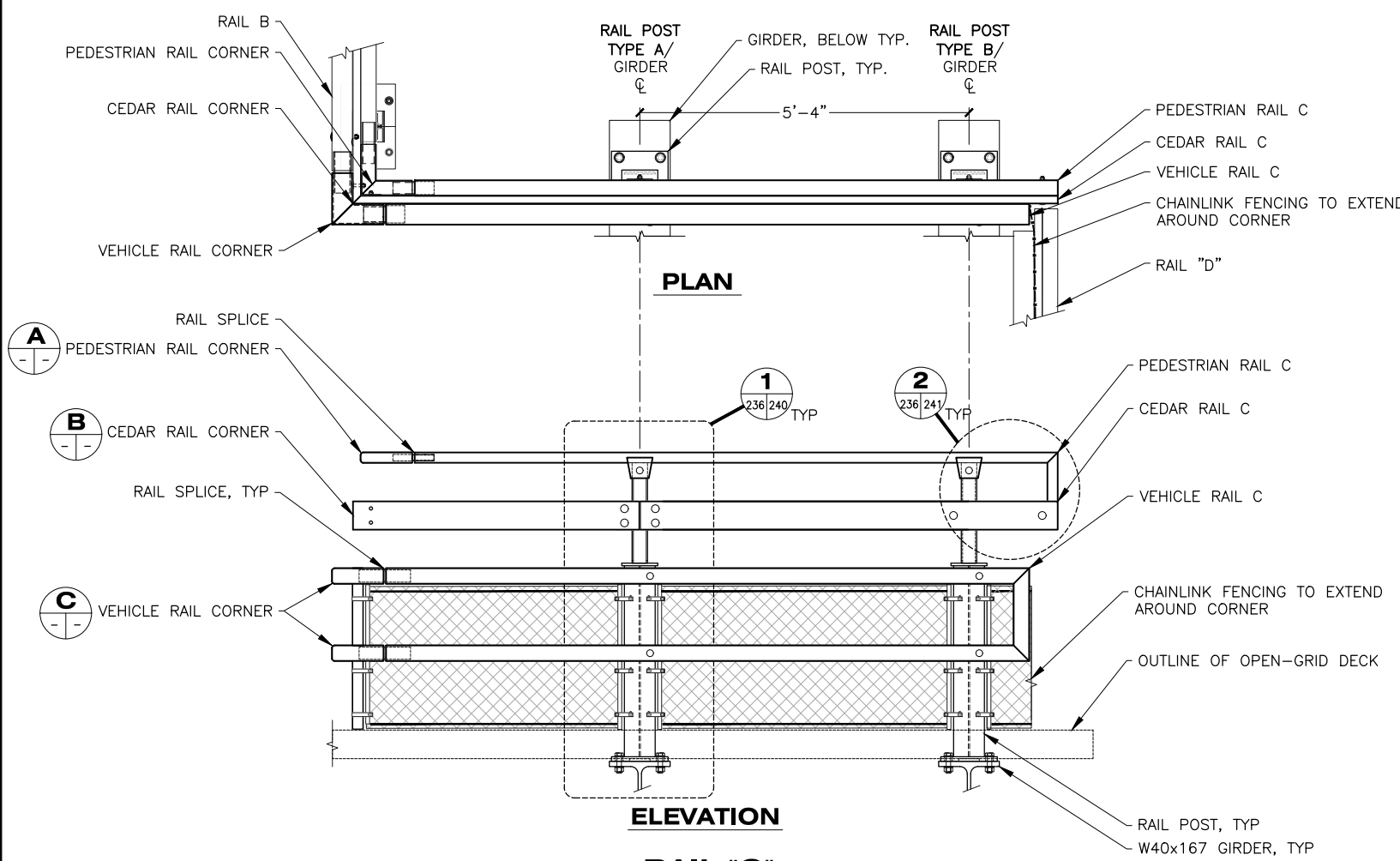
APPROACH ADDITION RAIL ELEMENT "B2"

HH 10/01/2024

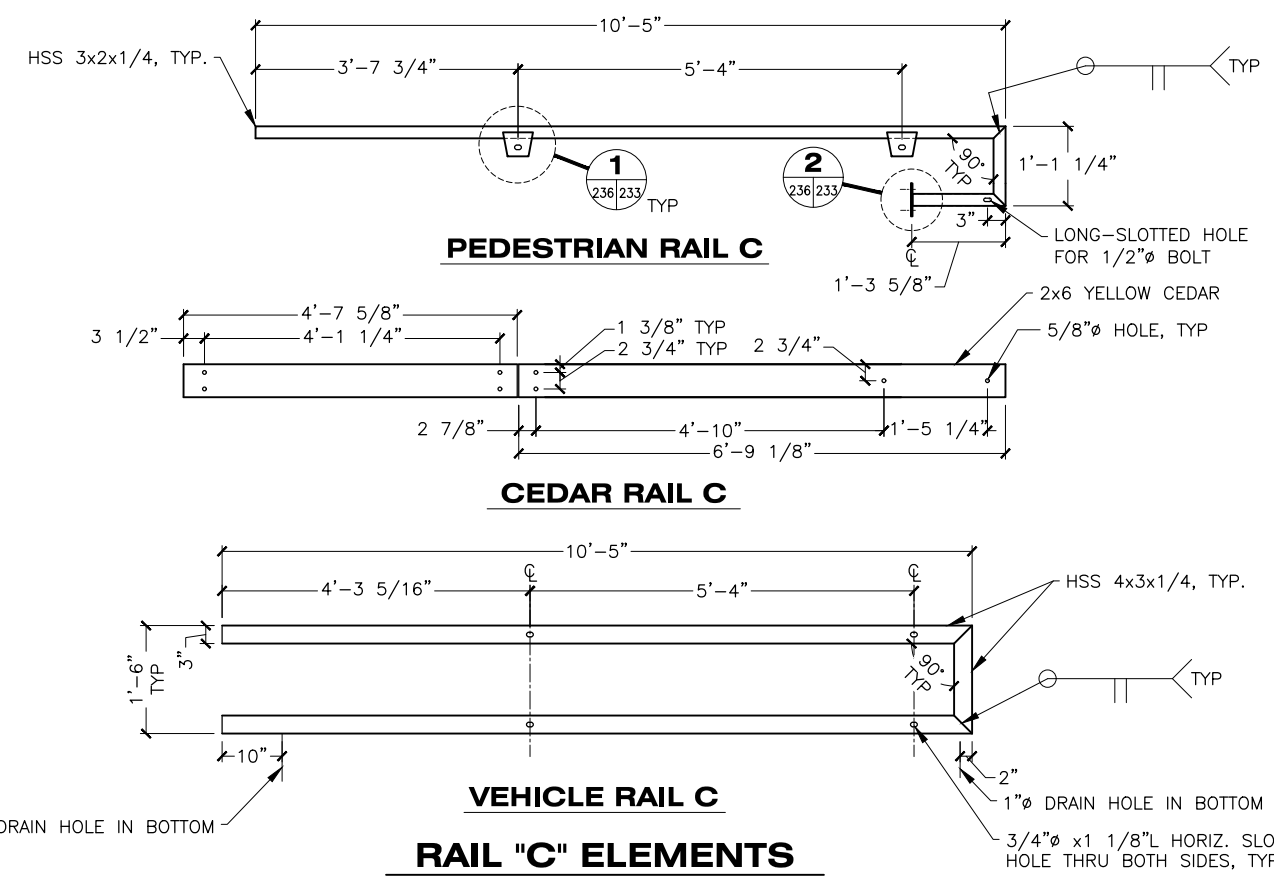
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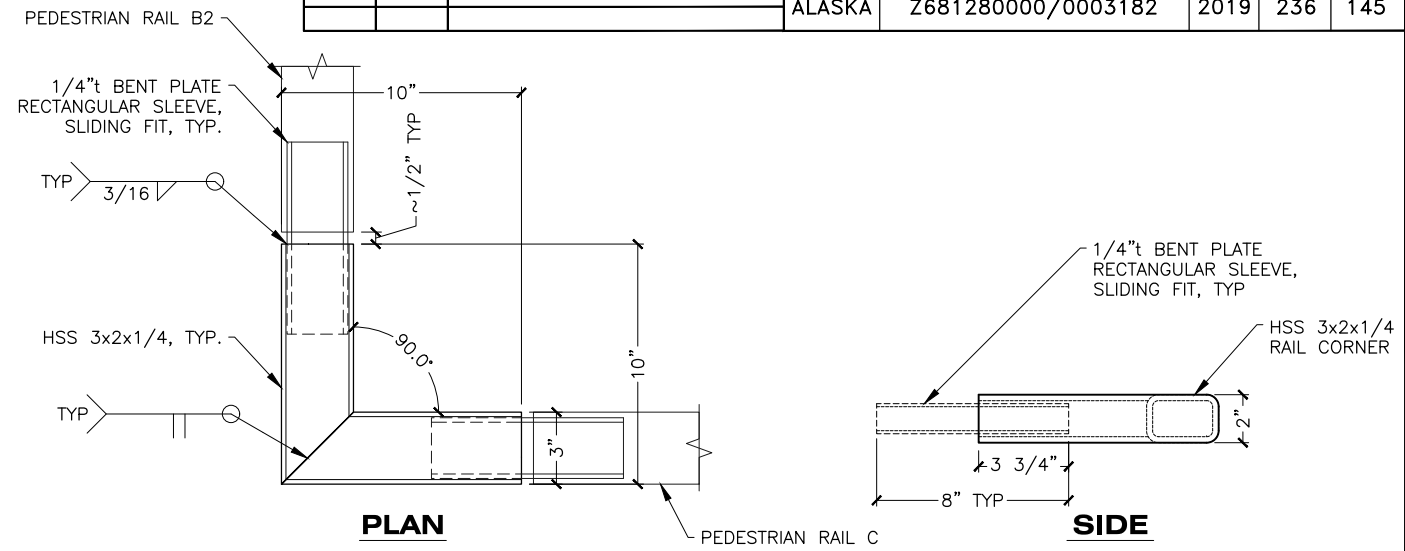
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	236	145



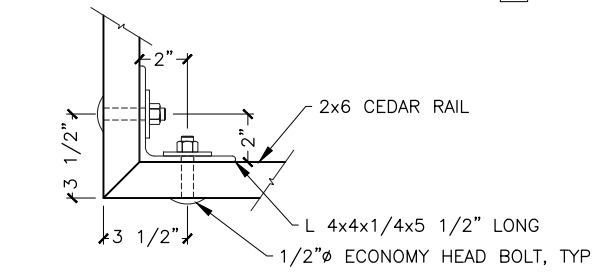
**RAIL "C"
GIRDER MOUNTED**



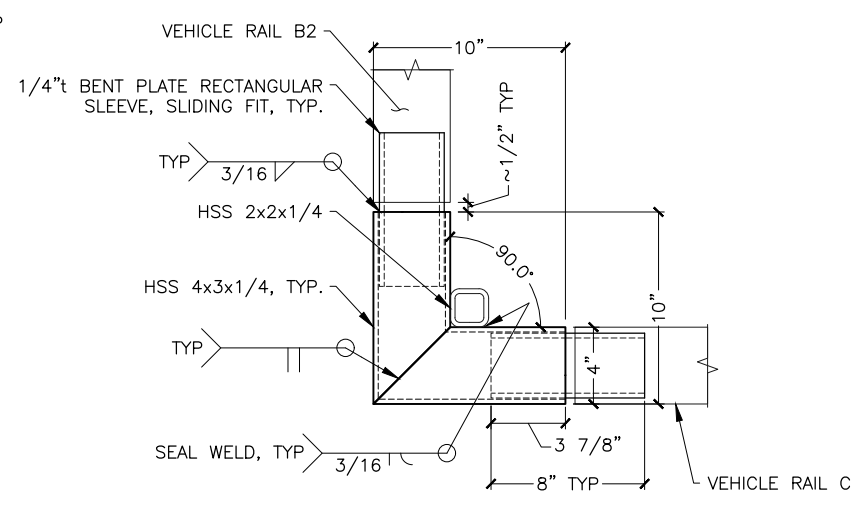
RAIL "C" ELEMENTS



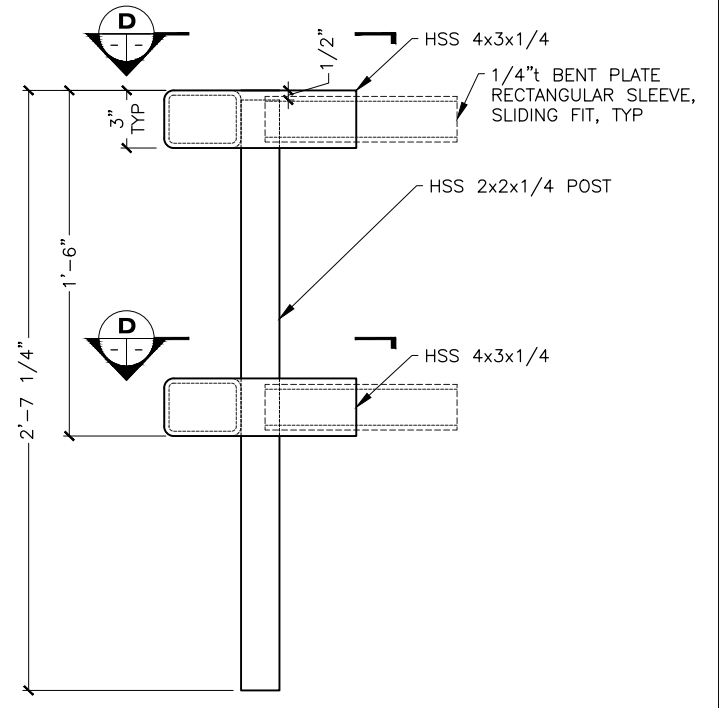
A PEDESTRIAN RAIL CORNER



B CEDAR RAIL CORNER



D SECTION



**C VEHICLE RAIL CORNER
(1 TOTAL)**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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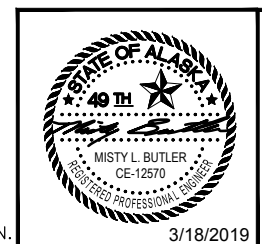
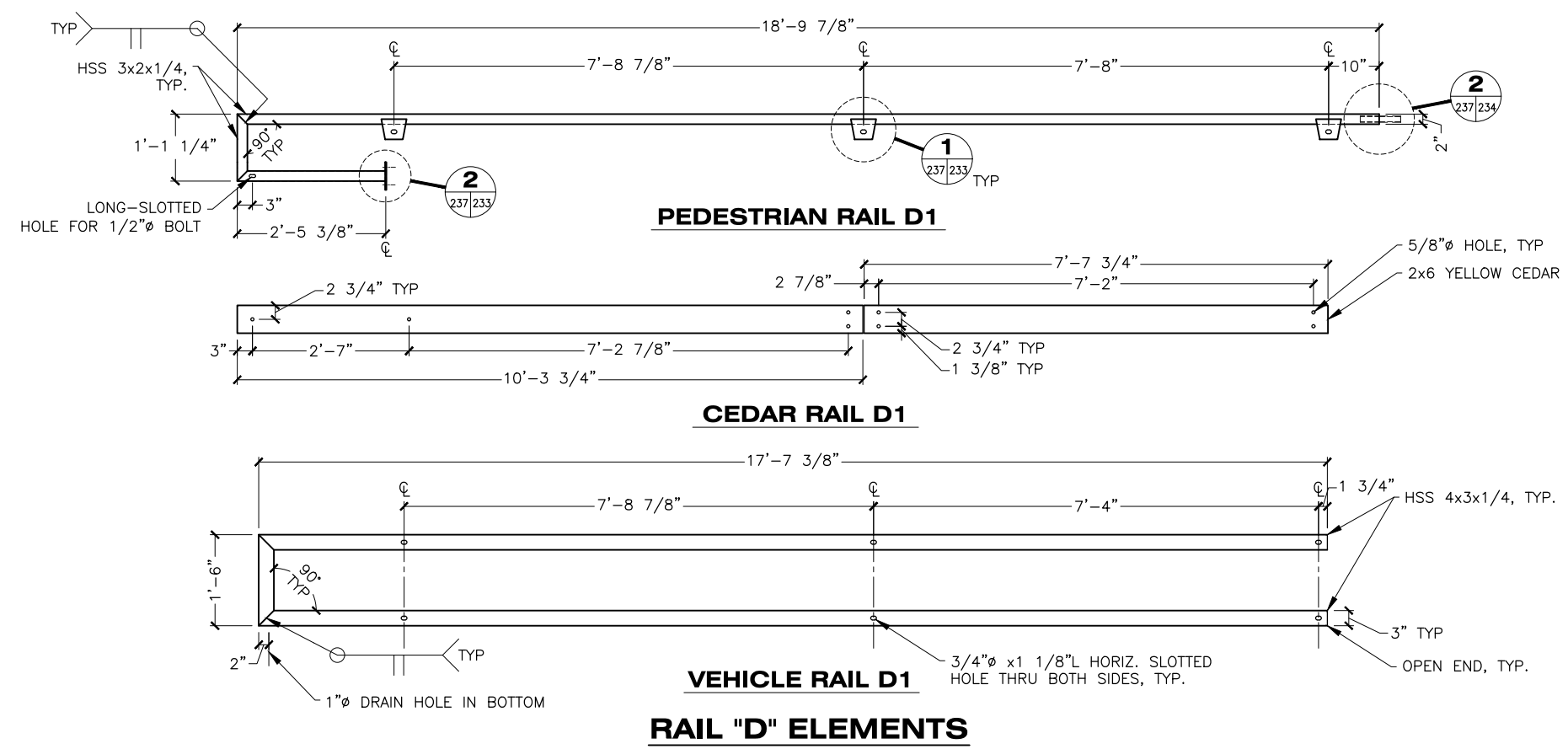
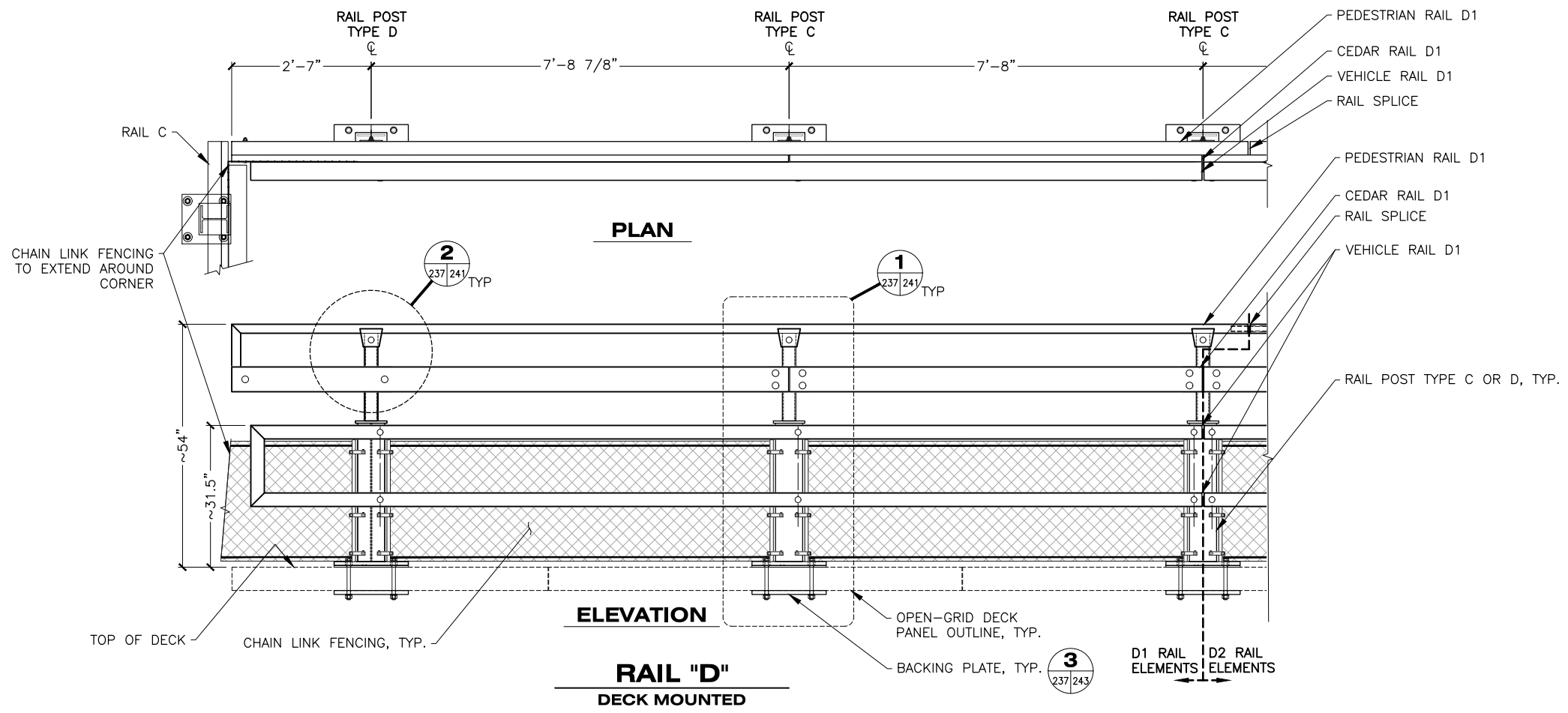
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION RAIL ELEMENTS "C"

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	237	145

FILE: q:\us\68128\WF\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg
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 CHECKED: STAFF
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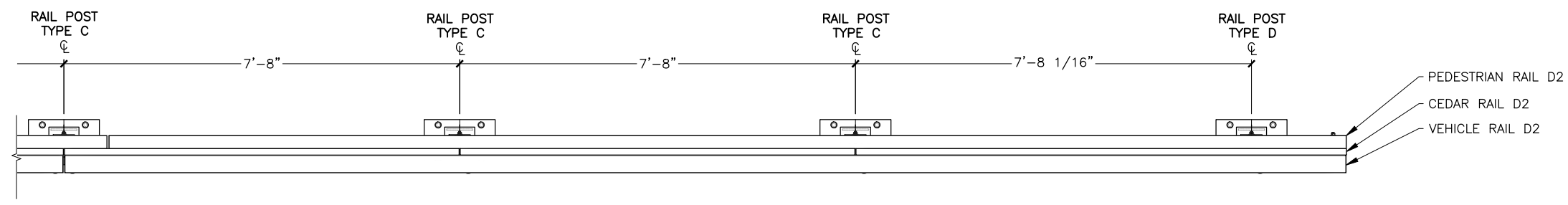


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 GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS
 APPROACH ADDITION
 RAIL ELEMENT "D1"
 HH 10/01/2024

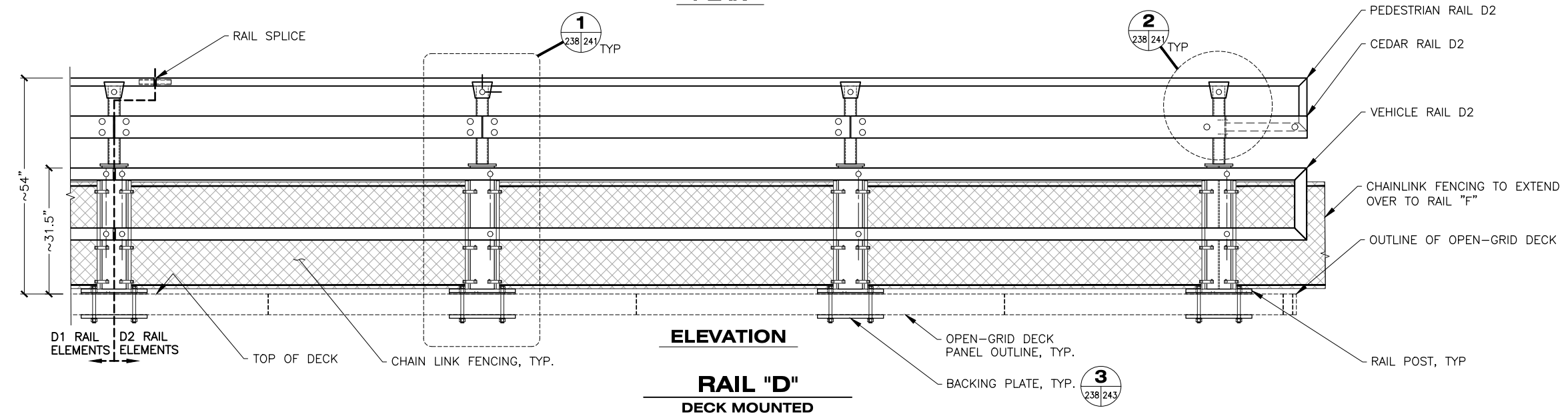
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	238	145

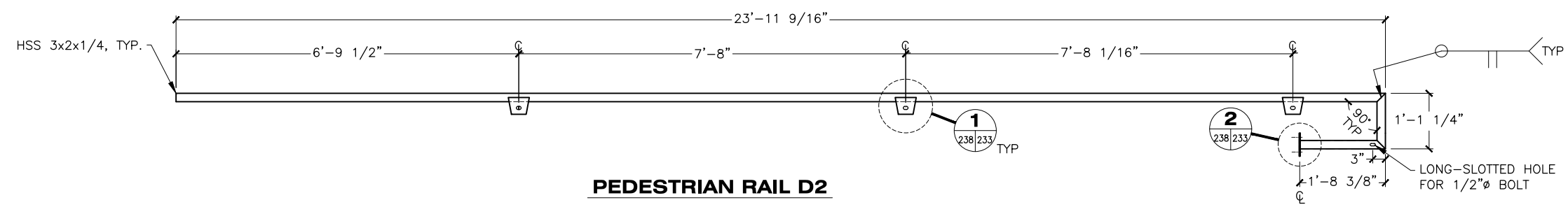
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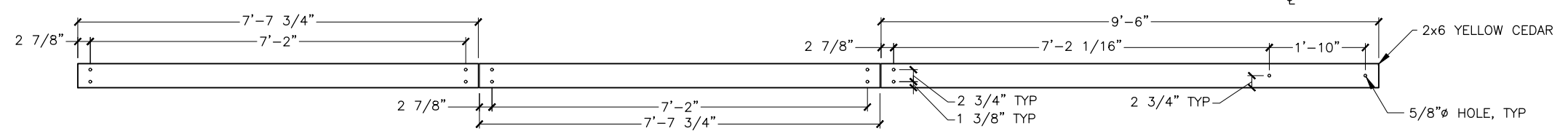
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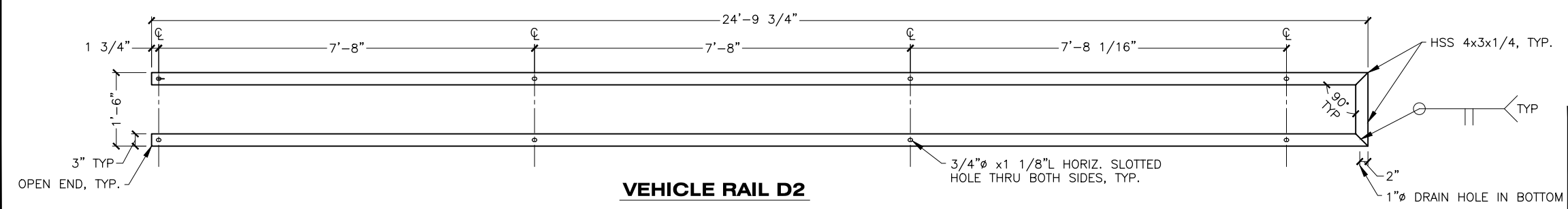
ELEVATION
RAIL "D"
DECK MOUNTED



PEDESTRIAN RAIL D2

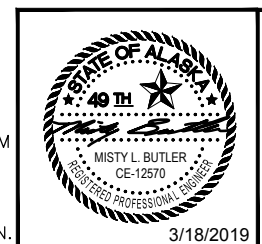


CEDAR RAIL D2



VEHICLE RAIL D2
RAIL "D" ELEMENTS

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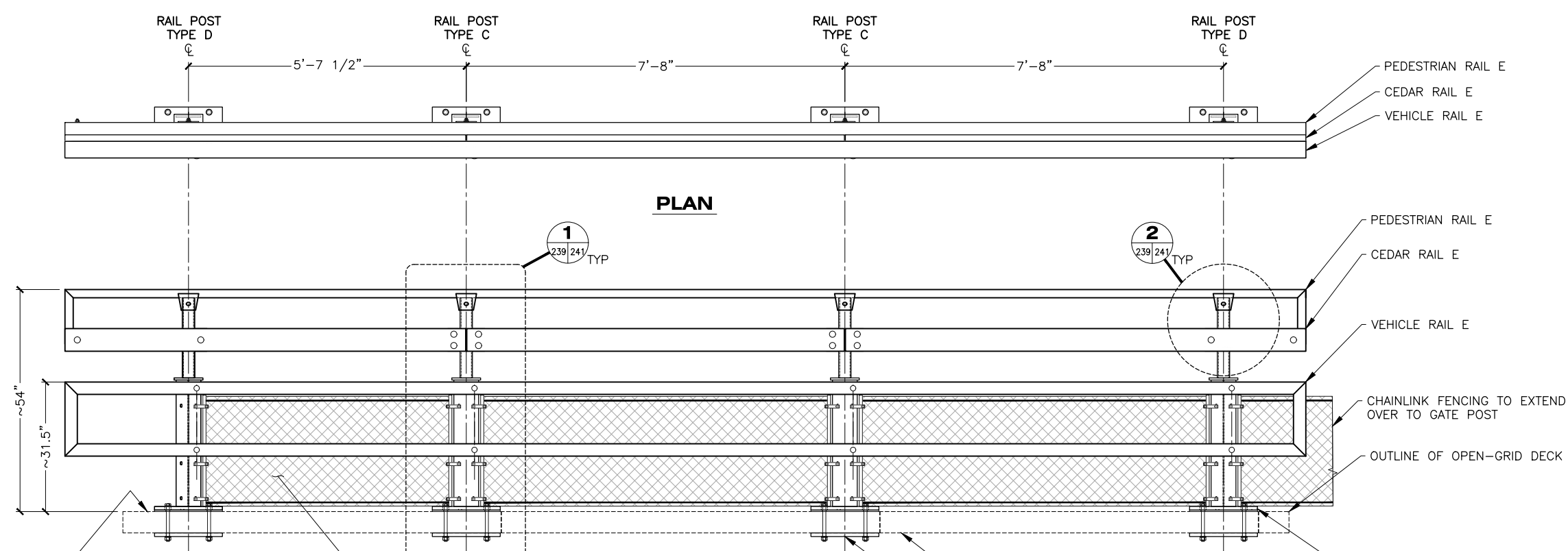
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION
 RAIL ELEMENT "D2"

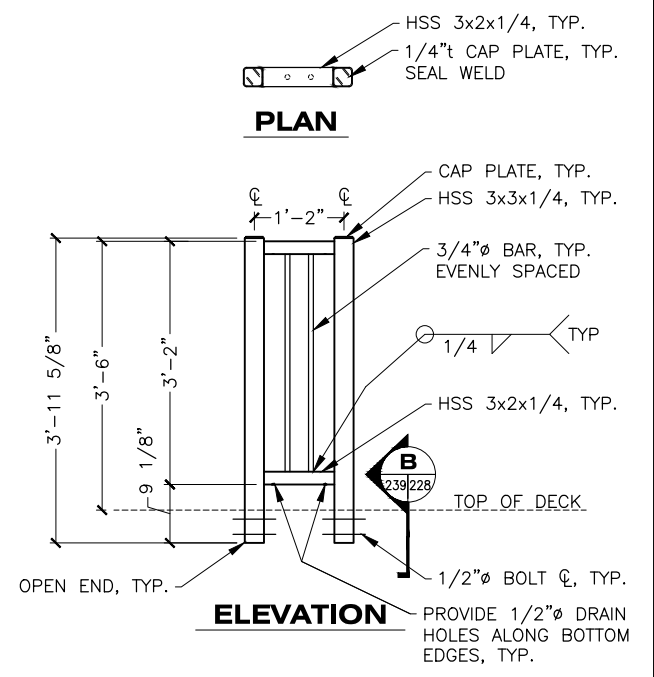
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	239	145

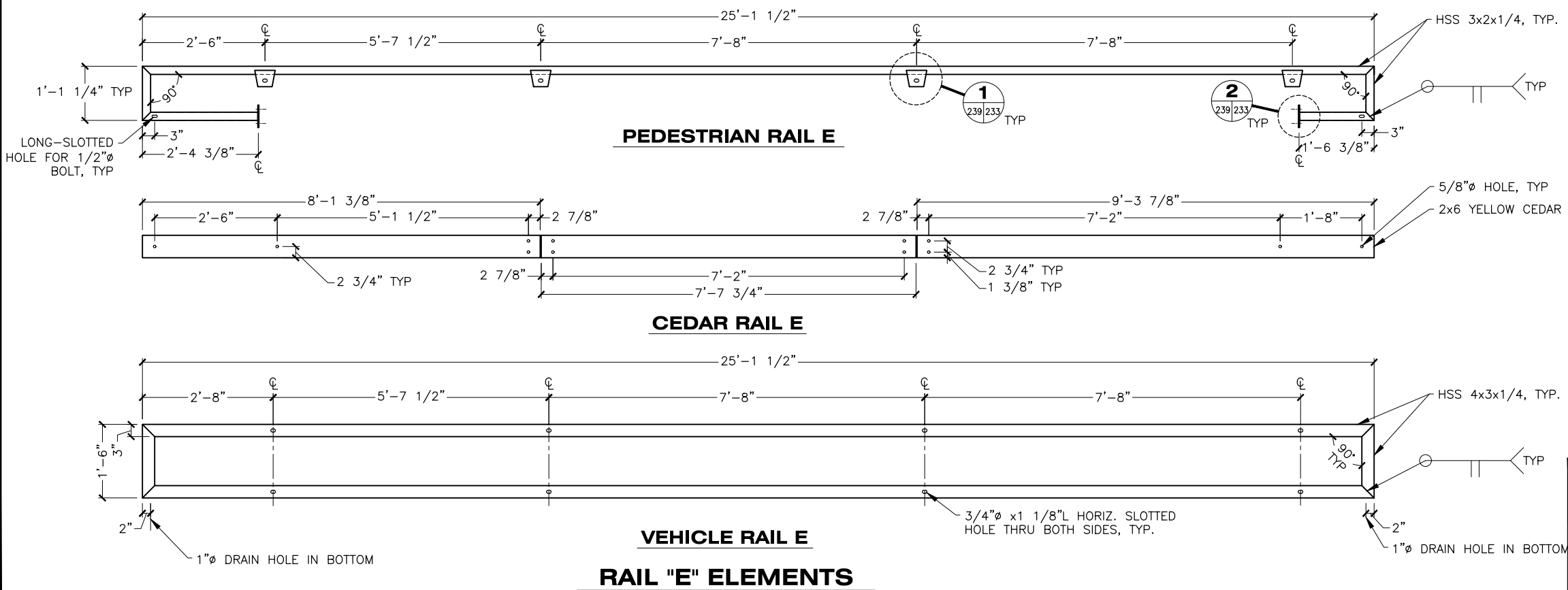
FILE: G:\us\68128\WF\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg
 DATE: 3/18/2019 13:54 LAYOUT: 239
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



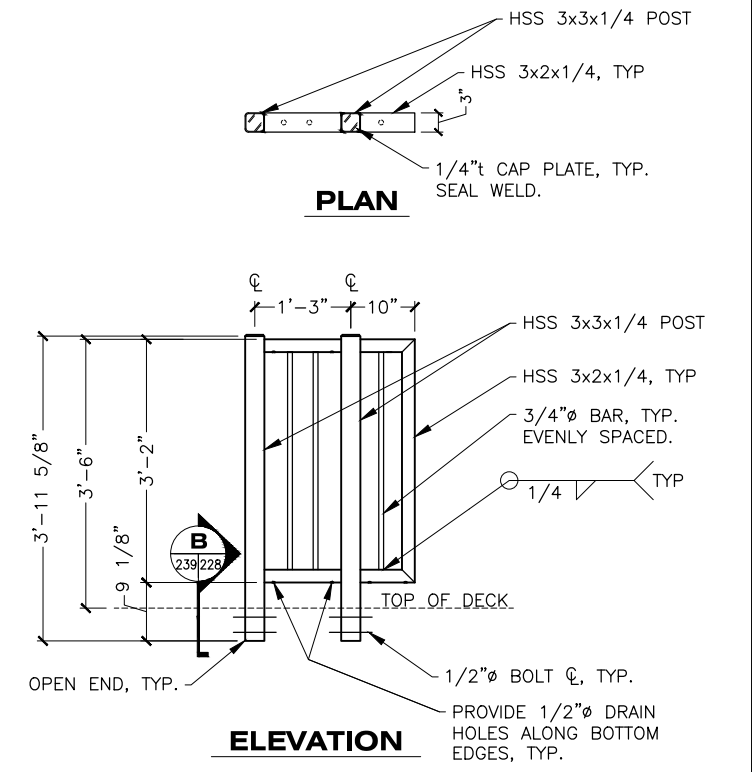
ELEVATION
RAIL "E"
DECK MOUNTED



RAIL "F"



RAIL "E" ELEMENTS



RAIL "G"



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

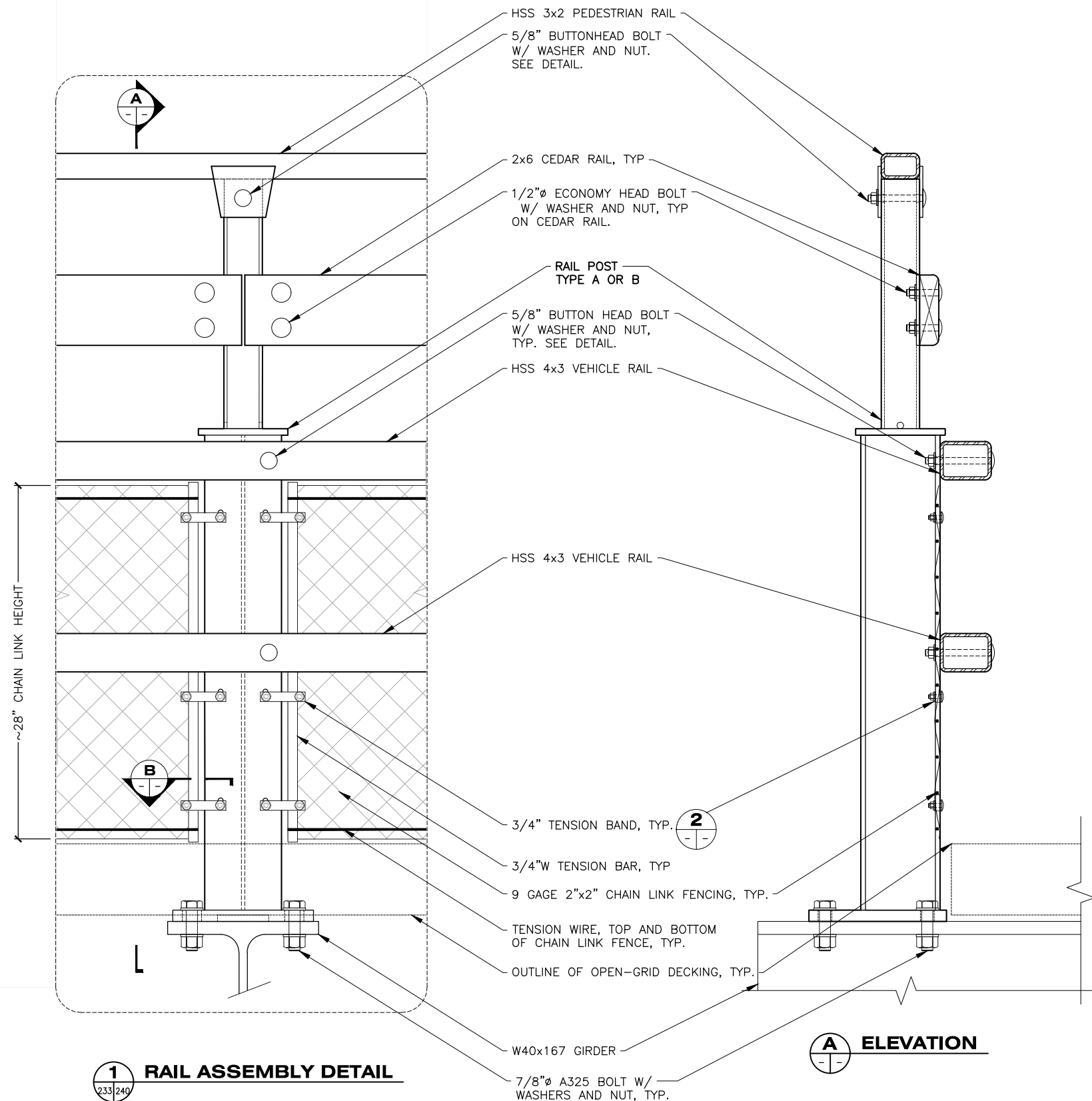
APPROACH ADDITION
RAIL ELEMENT "E"

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

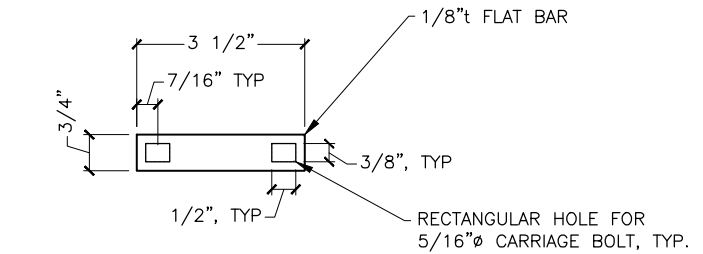
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	240	145

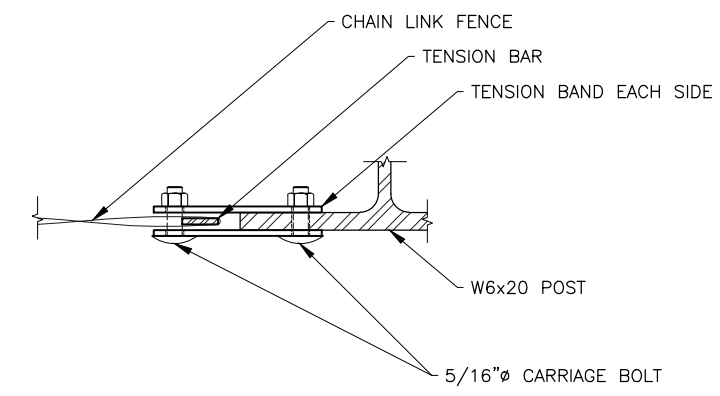
FILE G:\Gus\68128\WF\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg
 DATE 3/18/2019 14:55 LAYOUT 240
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



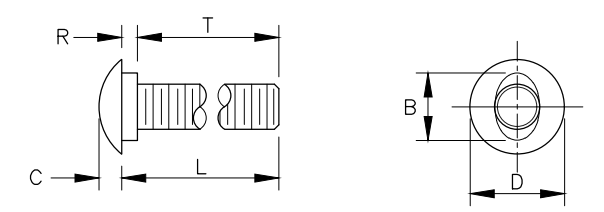
1 RAIL ASSEMBLY DETAIL
 233/240
 236



2 TENSION BAND
 - 240 (276 TOTAL)
 241



B SECTION
 - 240
 241

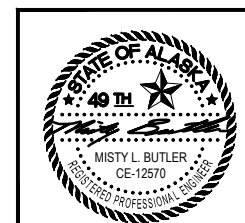


B	C	D	L (LENGTH)	R	T (THREAD LENGTH)
15/16"	5/16"	1 5/16" OR 1 7/16"	AS REQUIRED	7/32"	AS REQUIRED

5/8" BUTTON HEAD BOLT
 (AKA: GUARD RAIL BOLTS)

A ELEVATION
 - -

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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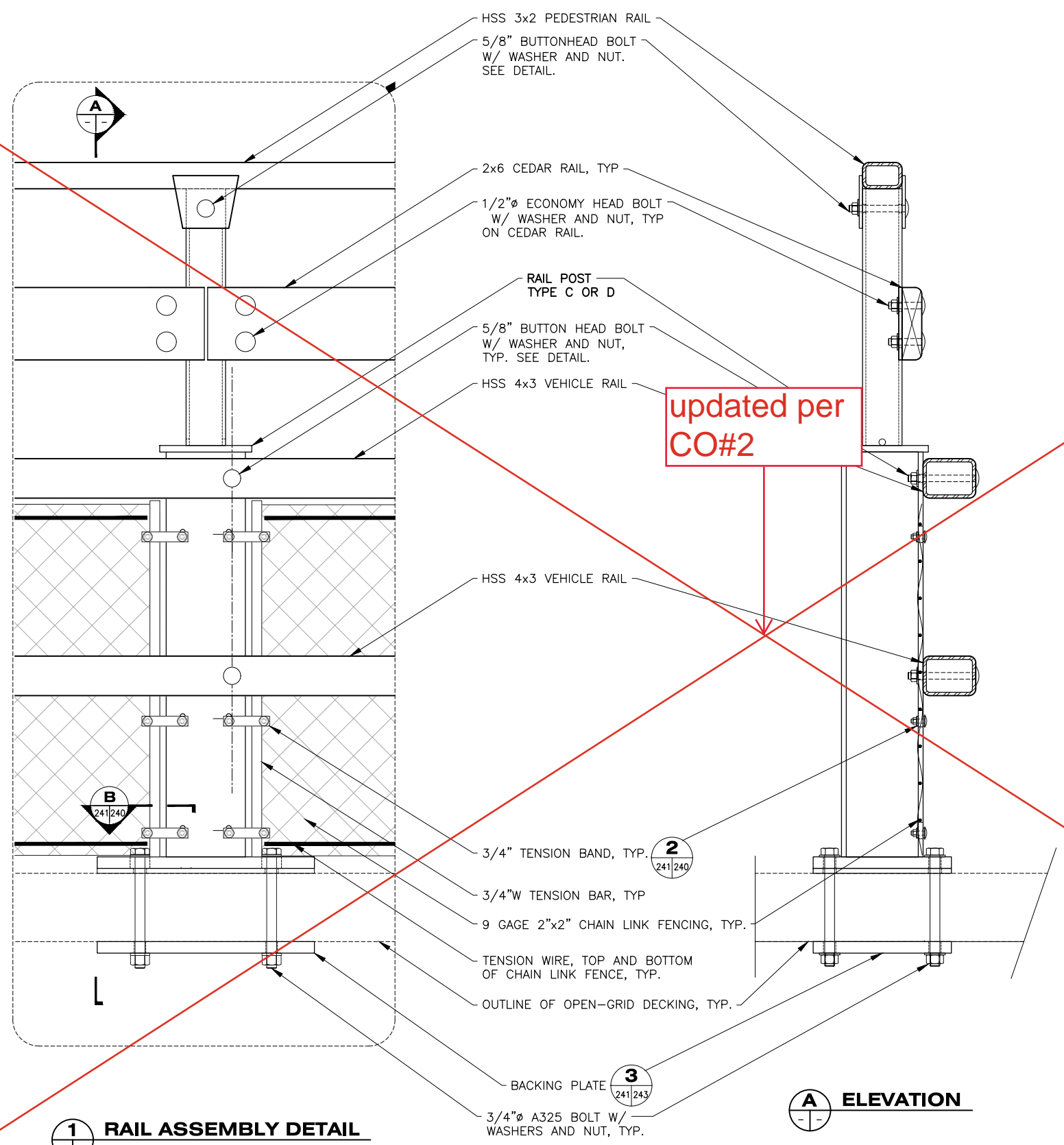
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION RAIL DETAILS

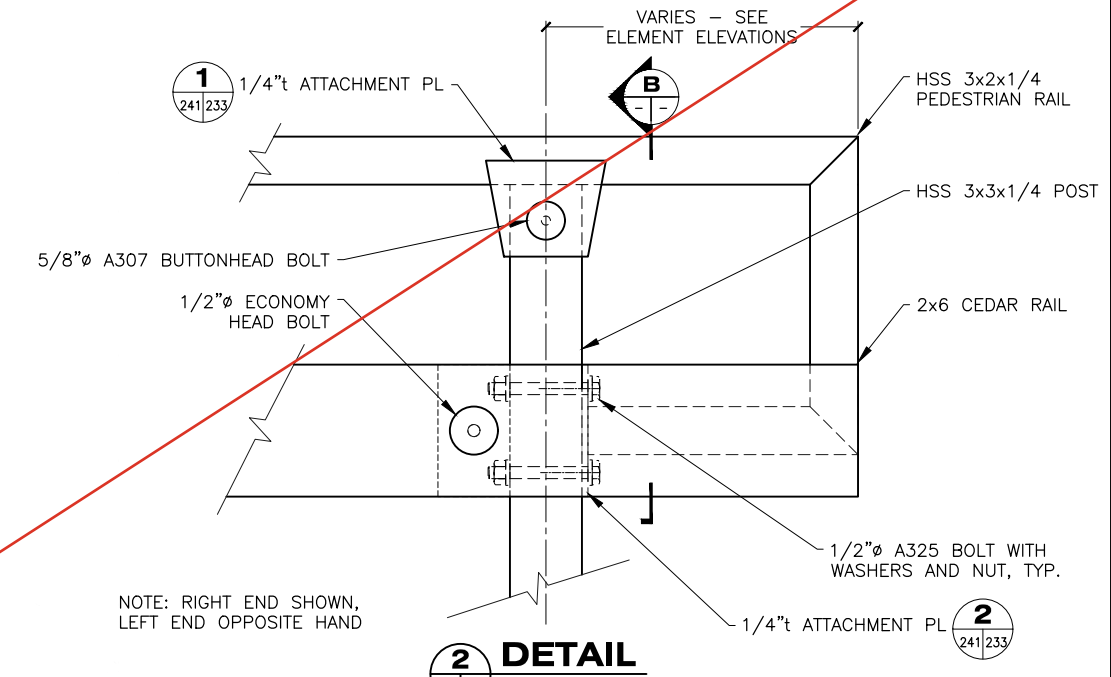
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	241	145

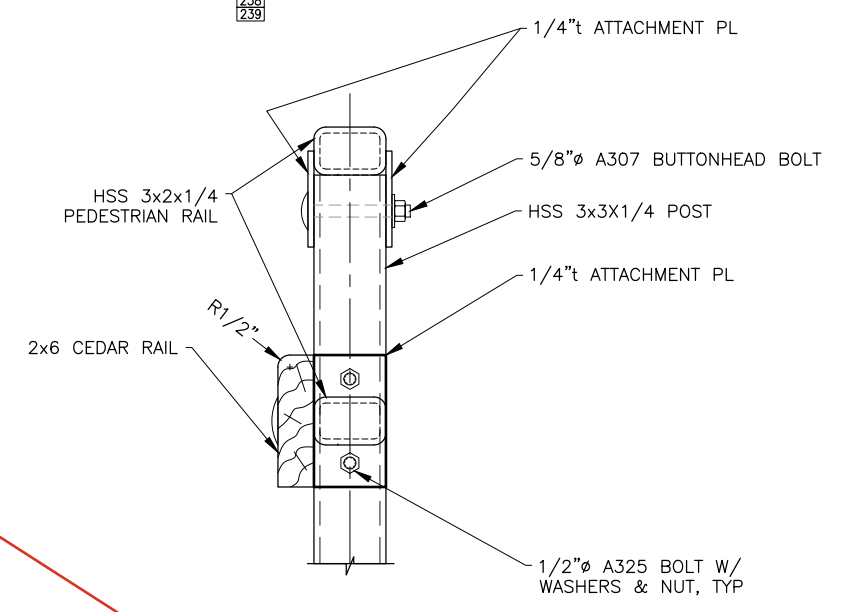
FILE: G:\us\68128\WF\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg
 DATE: 3/18/2019 13:54 LAYOUT: 241
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



updated per CO#2



1 RAIL ASSEMBLY DETAIL

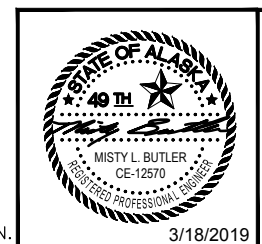


2 DETAIL

B SECTION

A ELEVATION

1 RAIL ASSEMBLY DETAIL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

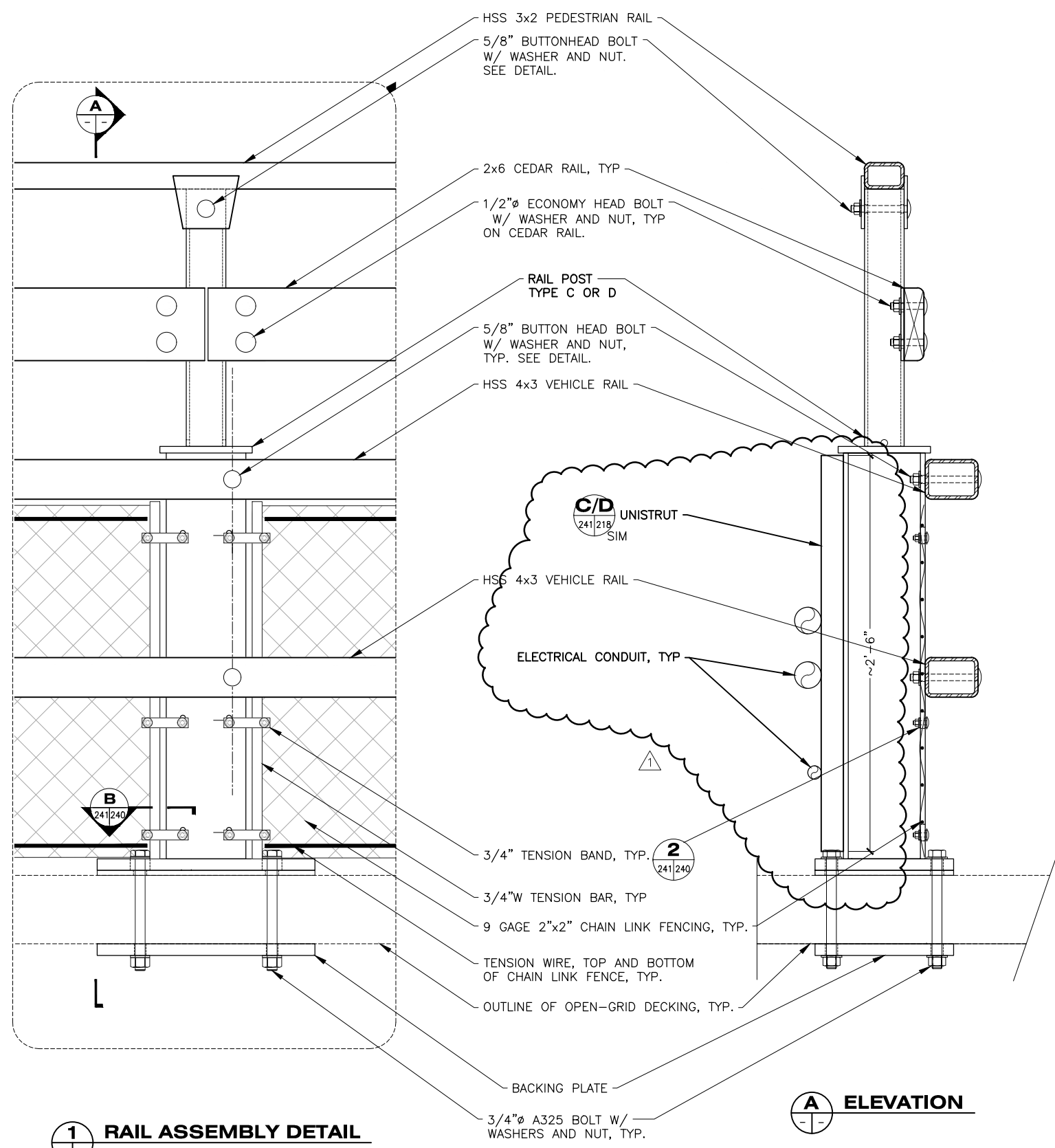
APPROACH ADDITION RAIL DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HH 10/01/2024

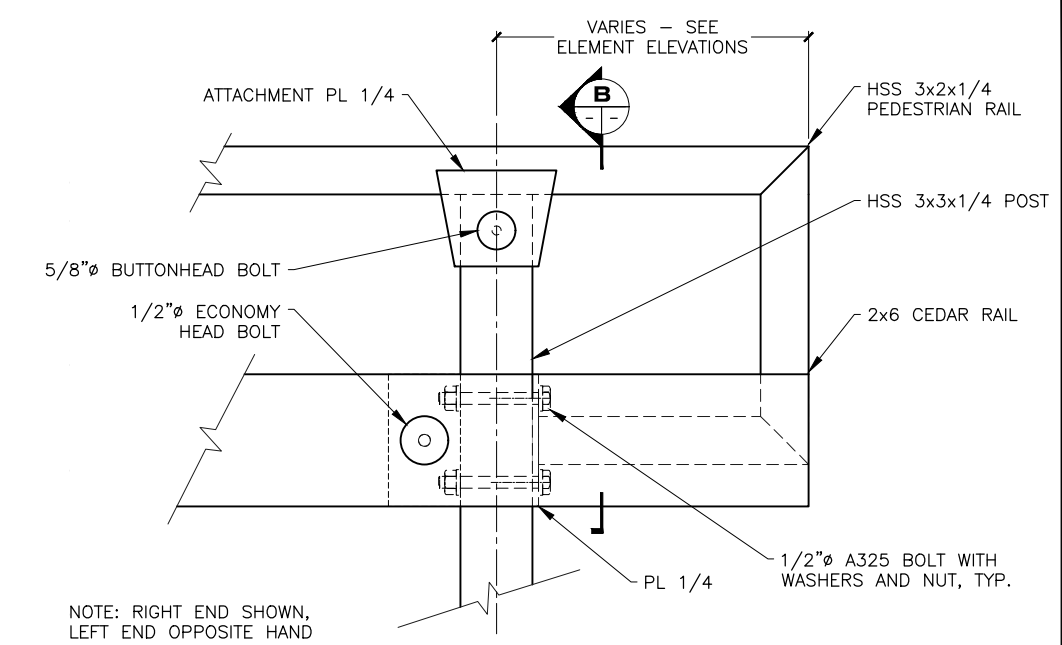
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/13/20	MODIFIED TO SHOW ELECTRICAL CONDUIT ROUTING	ALASKA	Z681280000/0003182	2019	241	145

FILE Q:\Gus\68128\VF\PLANSET\232-243 - APPROACH - RAILING DETAILS (REV 3-13-20).dwg
 DATE 3/13/2020 14:15 LAYOUT 241
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF

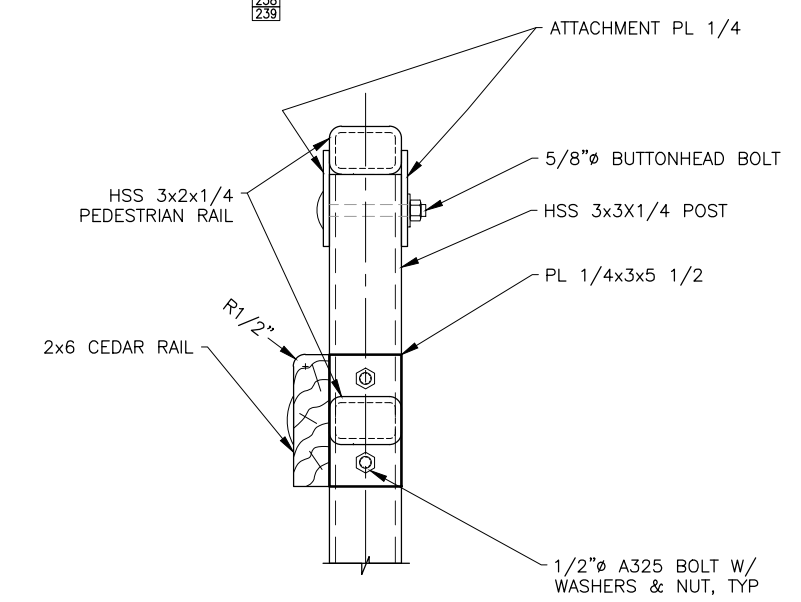


1 RAIL ASSEMBLY DETAIL
234 241 235

A ELEVATION

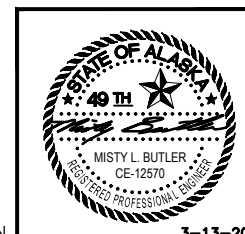


2 DETAIL
233 241 234 235 236 237 238 239



B SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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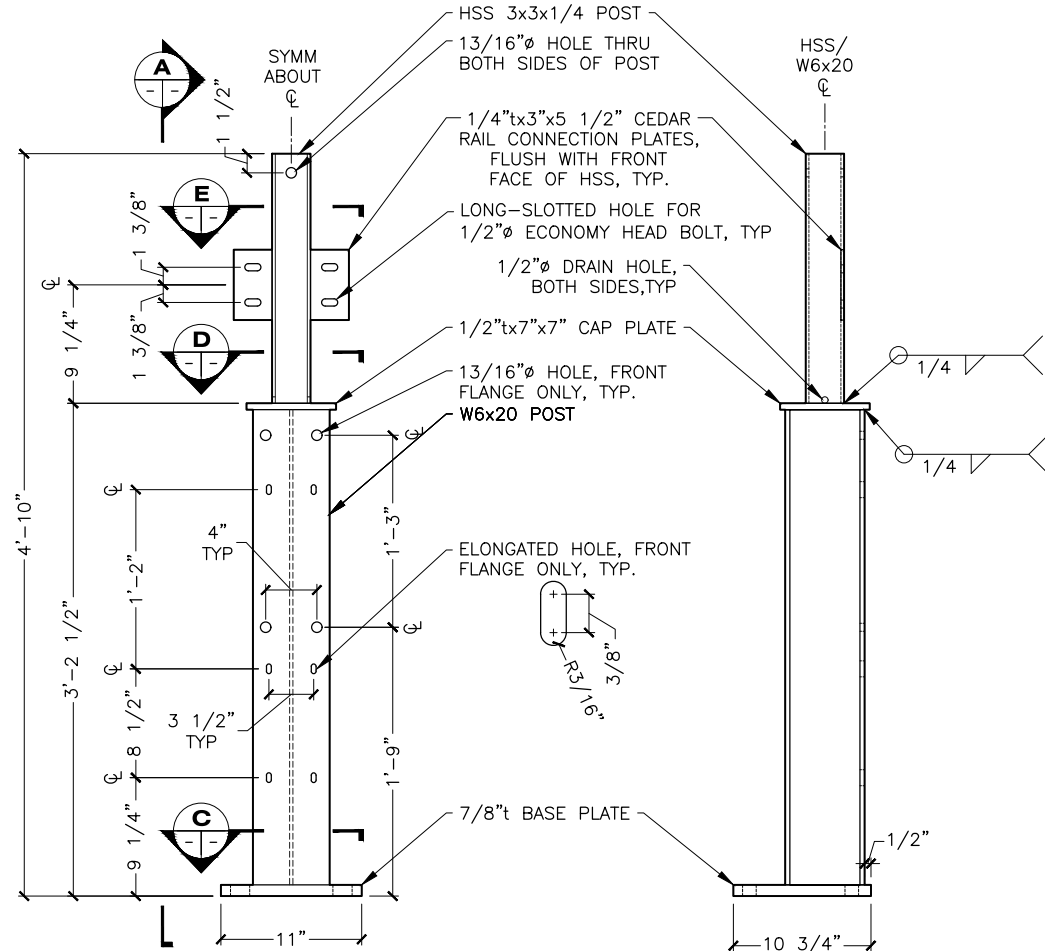
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION RAIL DETAILS

HH 10/01/2024

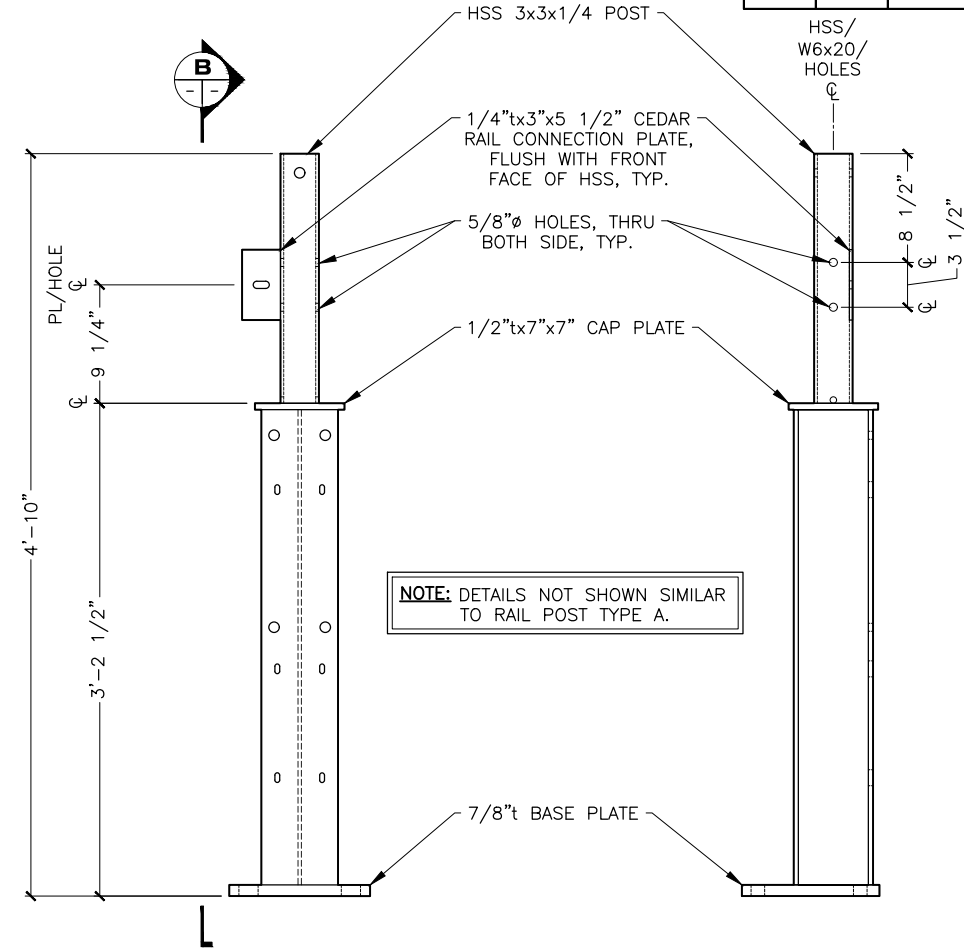
3-13-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	242	145



FRONT **A ELEVATION**

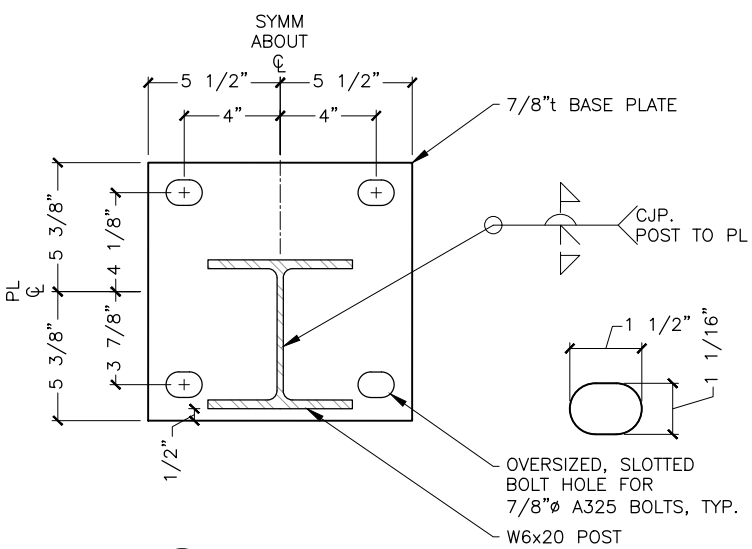
1 RAIL POST TYPE A
GIRDER MOUNTED
(4 TOTAL)



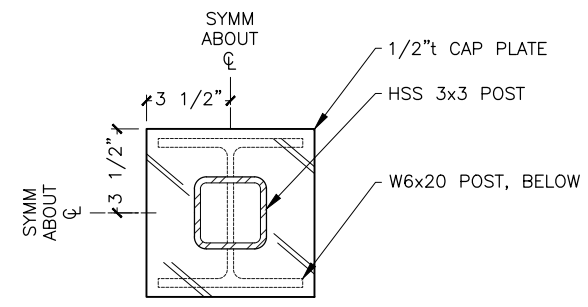
FRONT **B ELEVATION**

2 RAIL POST TYPE B
GIRDER MOUNTED
(2 TOTAL)
(1 TOTAL OPP HAND)

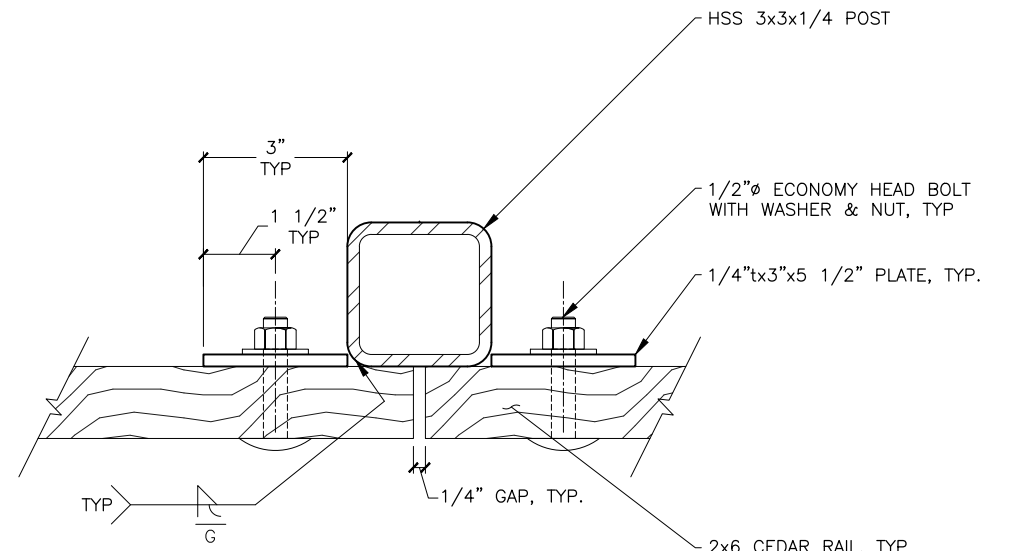
NOTE: DETAILS NOT SHOWN SIMILAR TO RAIL POST TYPE A.



C SECTION



D SECTION



E SECTION



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION RAIL DETAILS

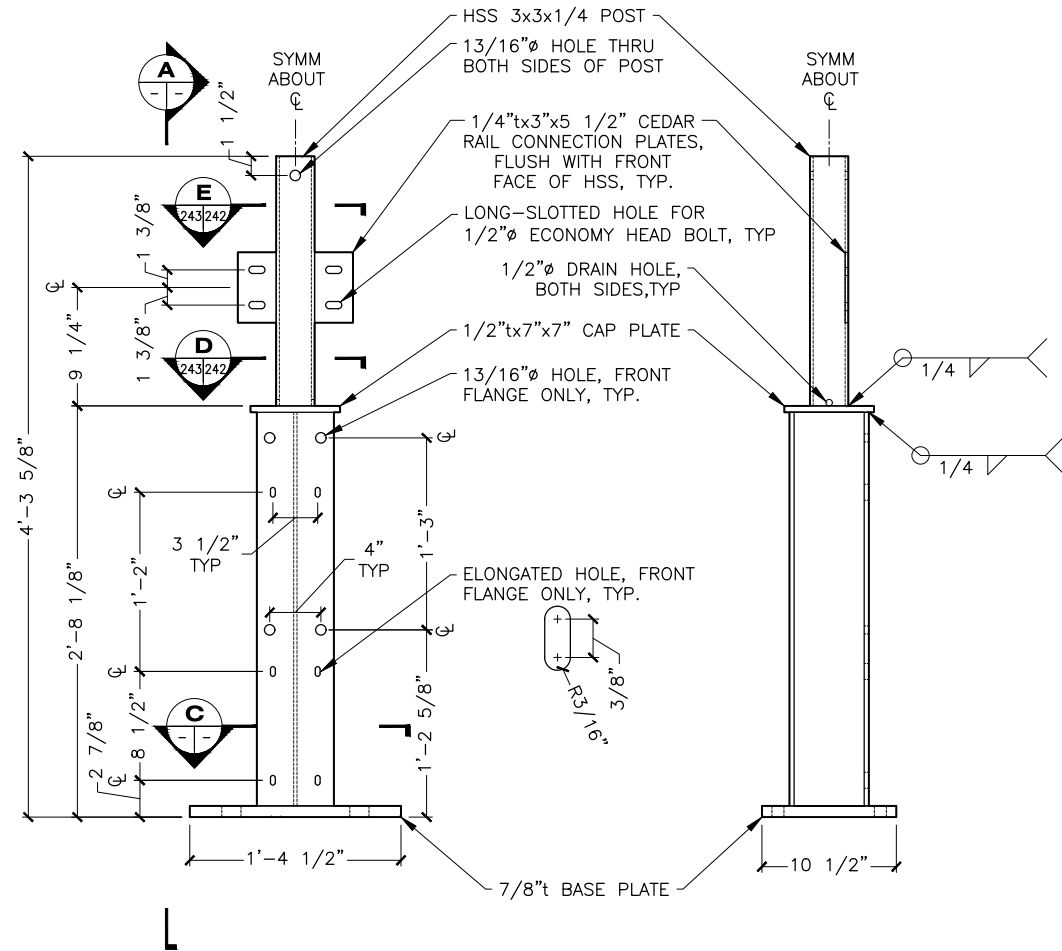
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

HH 10/01/2024

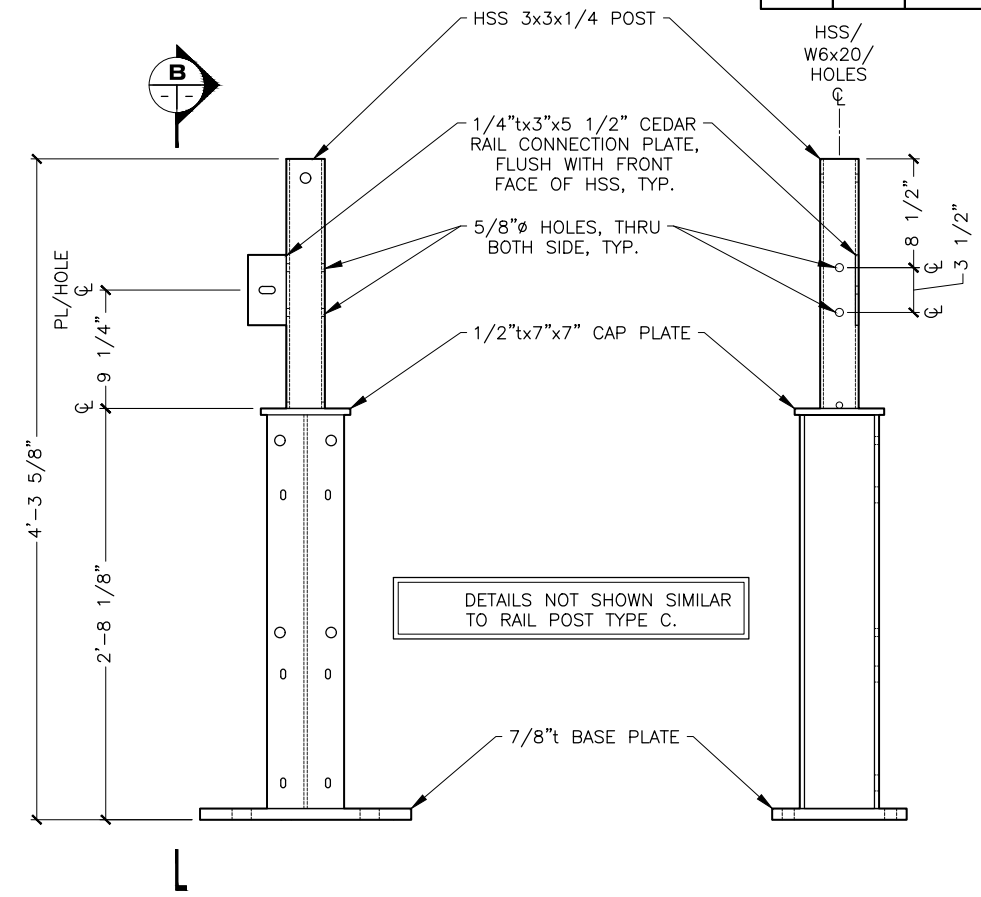
FILE q:\ous\68128\WF\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg DATE 3/18/2019 13:54 LAYOUT 242 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	243	145



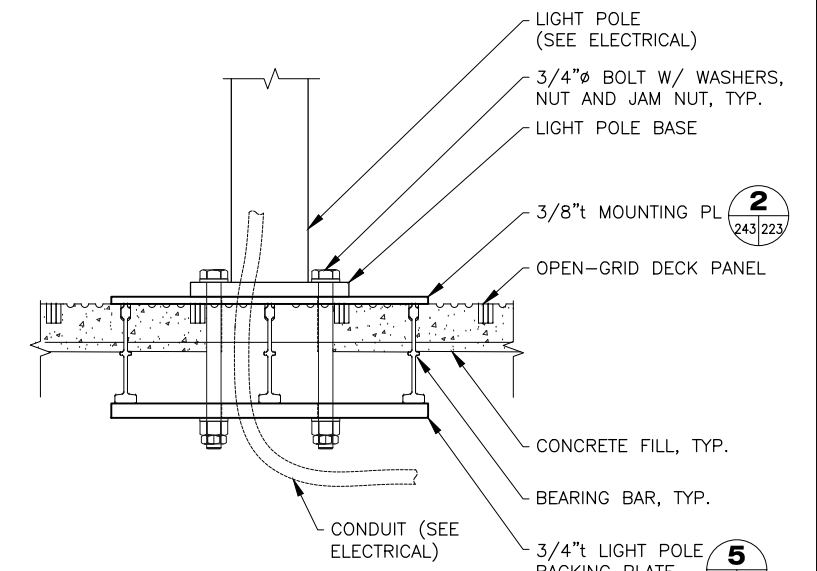
FRONT ELEVATION

1 RAIL POST TYPE C DECK MOUNTED (11 TOTAL)

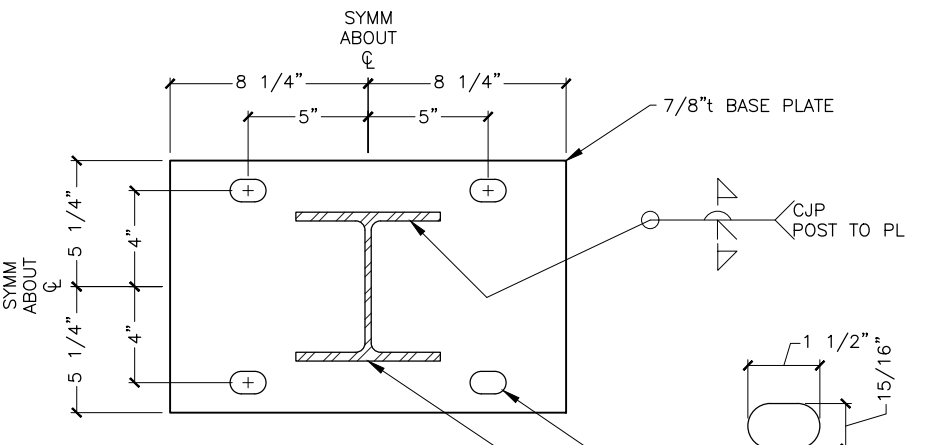


FRONT ELEVATION

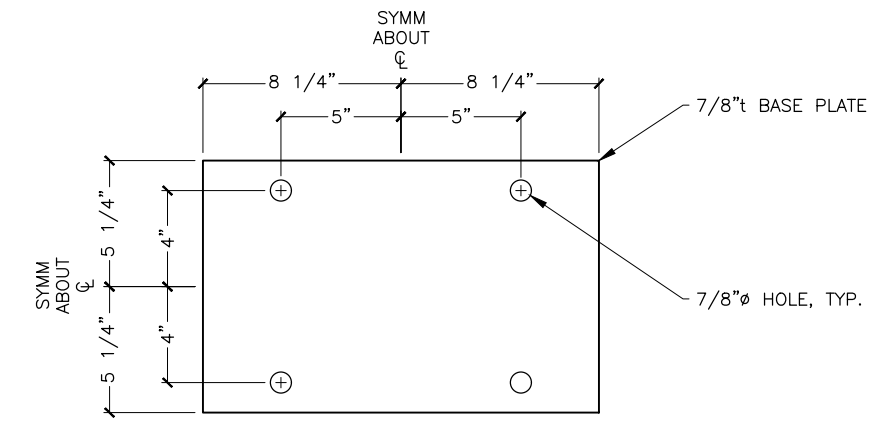
2 RAIL POST TYPE D DECK MOUNTED (3 TOTAL) (3 TOTAL OPP HAND)



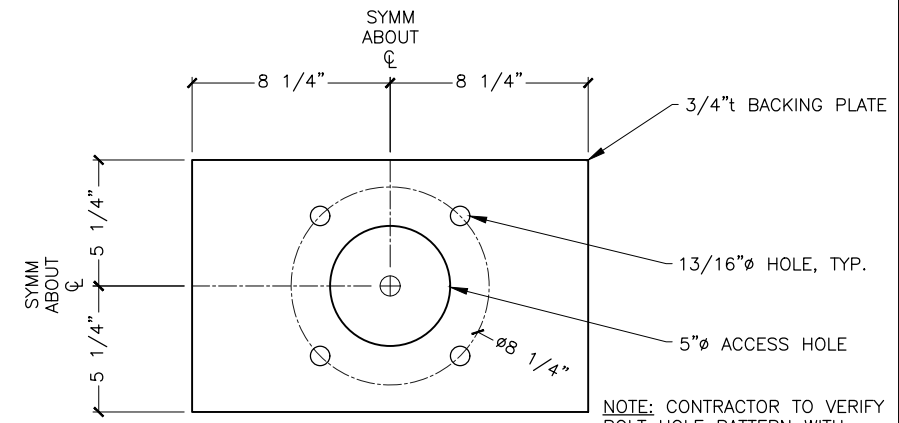
4 LIGHT POLE ASSEMBLY DETAIL



C SECTION



3 TYP BACKING PLATE (17 TOTAL)



5 LIGHT POLE BACKING PLATE (3 TOTAL)

NOTE: CONTRACTOR TO VERIFY BOLT HOLE PATTERN WITH LIGHT POLE MANUFACTURER.

FILE: q:\Gus\68128\W\PLANSET\232-243 - APPROACH - RAILING DETAILS.dwg
 DATE: 3/18/2019 13:54 LAYOUT: 243
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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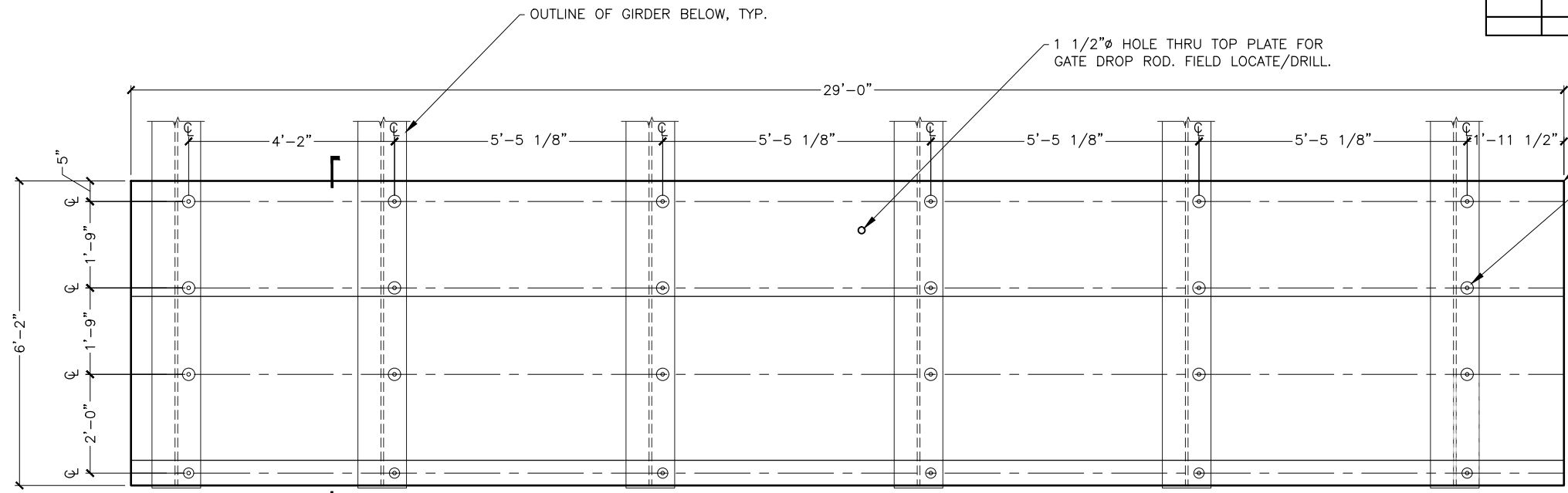
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION RAIL DETAILS

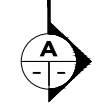
HH 10/01/2024

3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	244	145

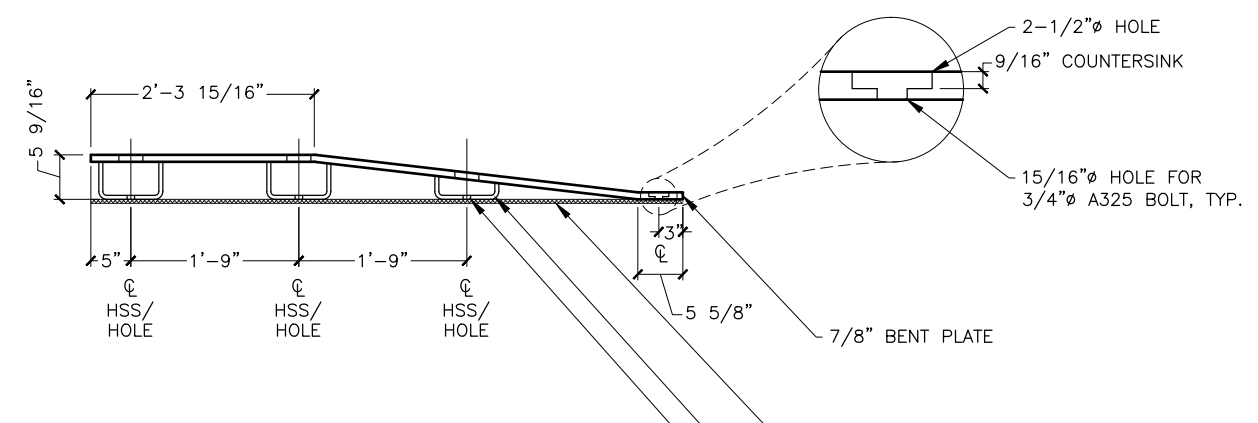
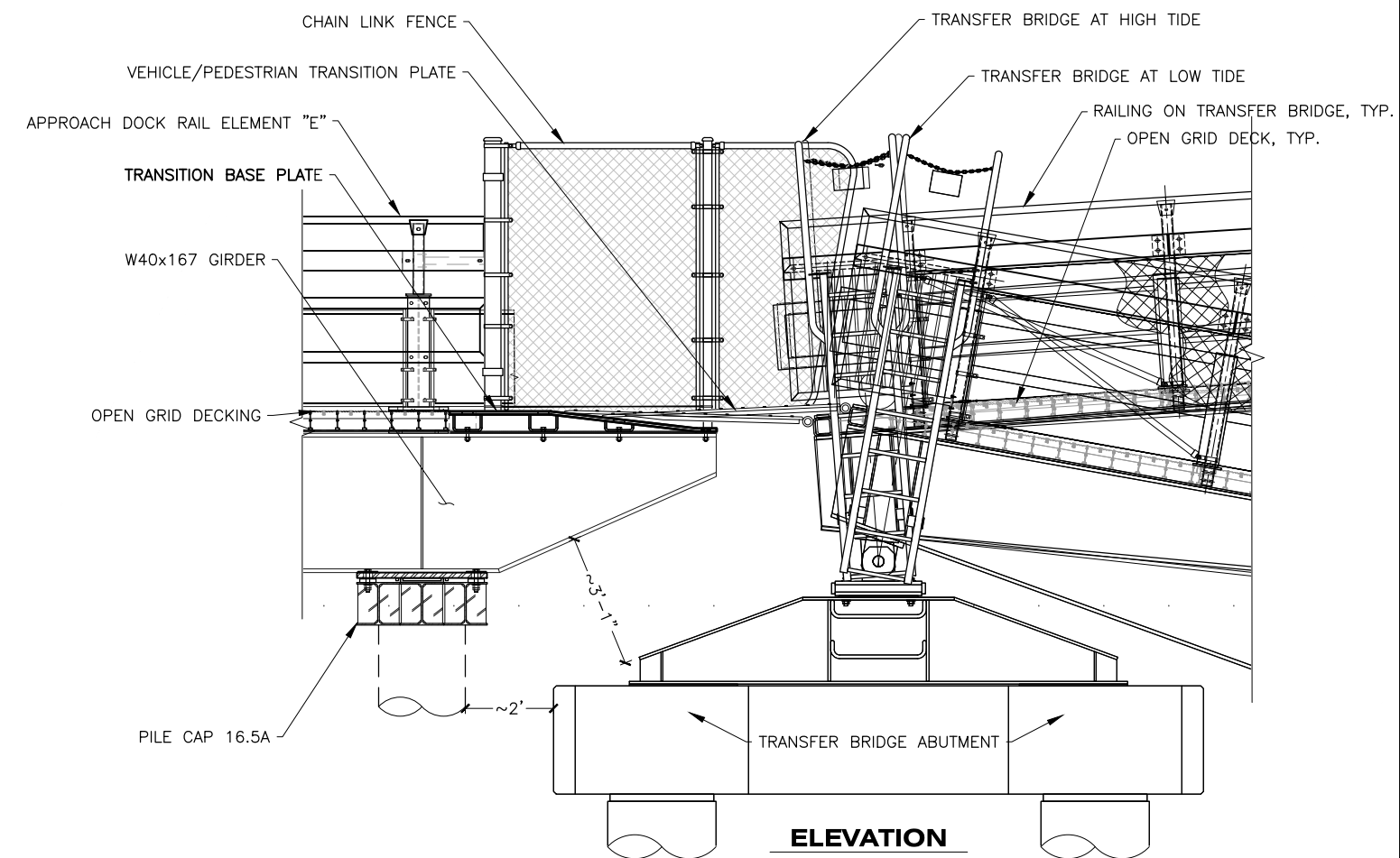


COAT TOP OF TRANSITION BASE PLATE IN ACCORDANCE WITH SECTION 513 - SYSTEM 7B METALIZED NONSKID.



PLAN

1 TRANSITION BASE PLATE
(1 TOTAL)



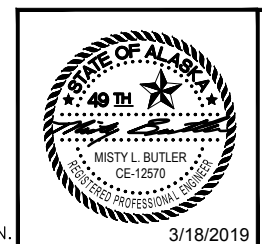
A SECTION

1/2" x 8" WIDE ELASTOMERIC PAD, FULL LENGTH OF TRANSITION PLATE, PLACED AT EACH GIRDER.

HSS 8x6x1/2, TYP.

15/16" ϕ HOLE FOR 3/4" ϕ A325 BOLT, TYP.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION TRANSITION BASE PLATE

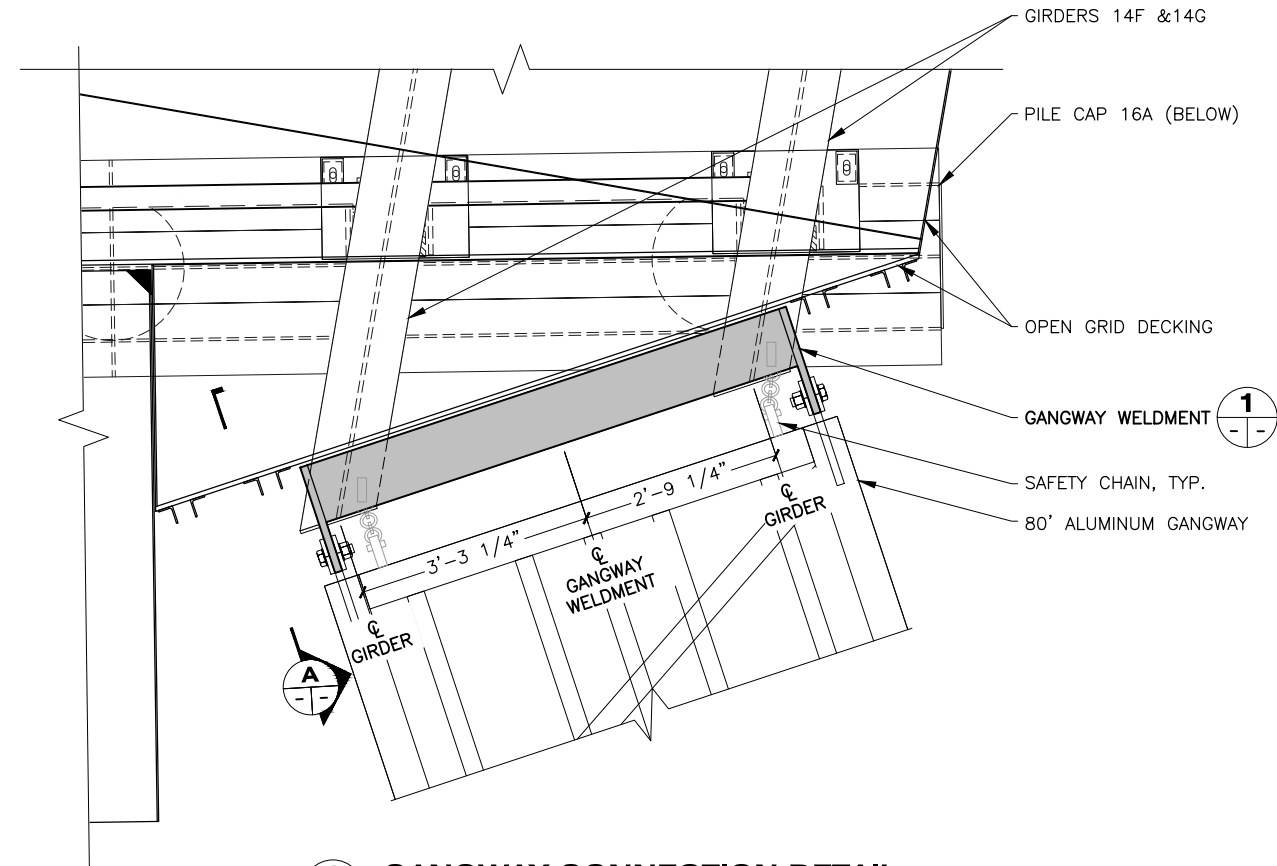
3/18/2019

HH 10/01/2024

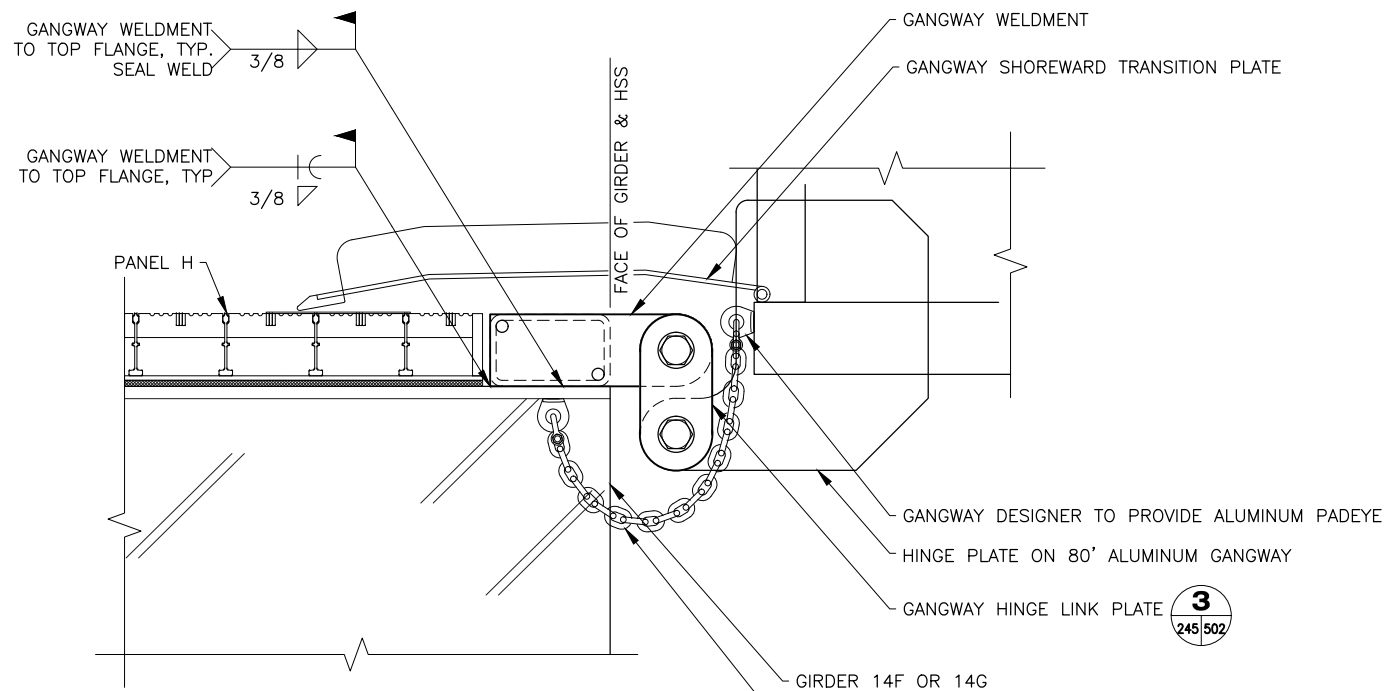
FILE q:\Gus\68128\WF\PLANSET\244 - APPROACH - TRANSITION BASE PLATE DETAILS.dwg DATE 3/18/2019 13:57 LAYOUT 244 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

FILE: G:\us\68128\WF\PLANSET\245 - APPROACH - GANGWAY CONNECTION DETAILS.dwg DATE: 3/18/2019 13:56 LAYOUT: 245 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

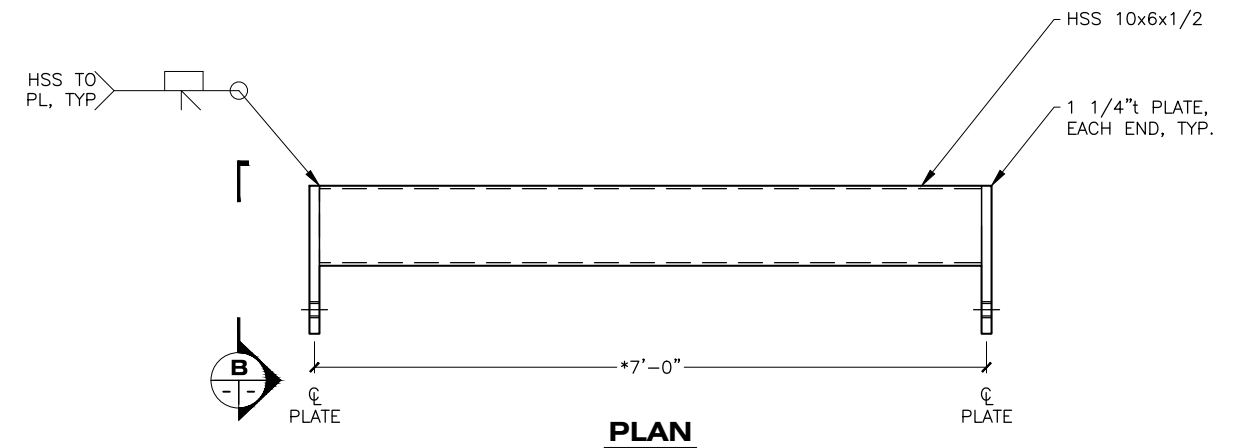
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	245	145



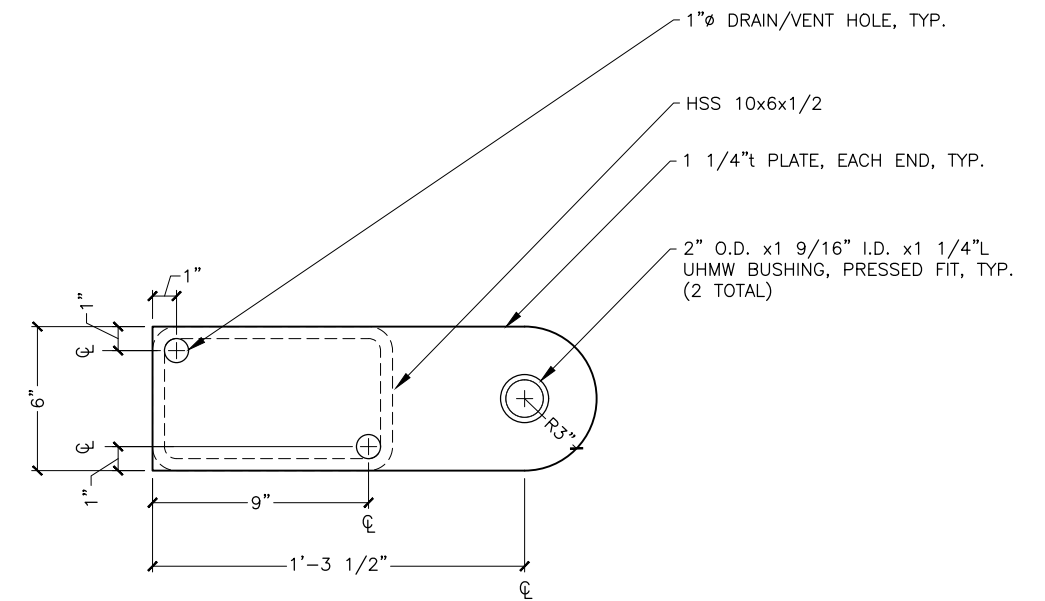
1 GANGWAY CONNECTION DETAIL
 221/245 NOTE: GANGWAY TRANSITION PLATE NOT SHOWN FOR CLARITY.



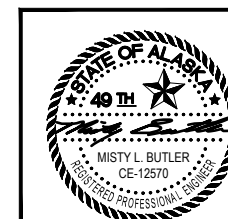
A ELEVATION
 CHAIN ASSEMBLY NS & FS:
 (1EA) DROP FORGED STEEL PAD EYE 1 1/4 ID
 (2EA) 7/16 BOLT TYPE CHAIN SHACKLE
 (2.5FT) 7/16 GR30 PROOF COIL CHAIN



1 GANGWAY WELDMENT DETAIL
 *CONTRACTOR SHALL VERIFY DIMENSION W/ FINAL GANGWAY DIMENSIONS TO ENSURE PROPER FIT-UP.
 (1 TOTAL)



B ELEVATION



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

APPROACH ADDITION GANGWAY CONNECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

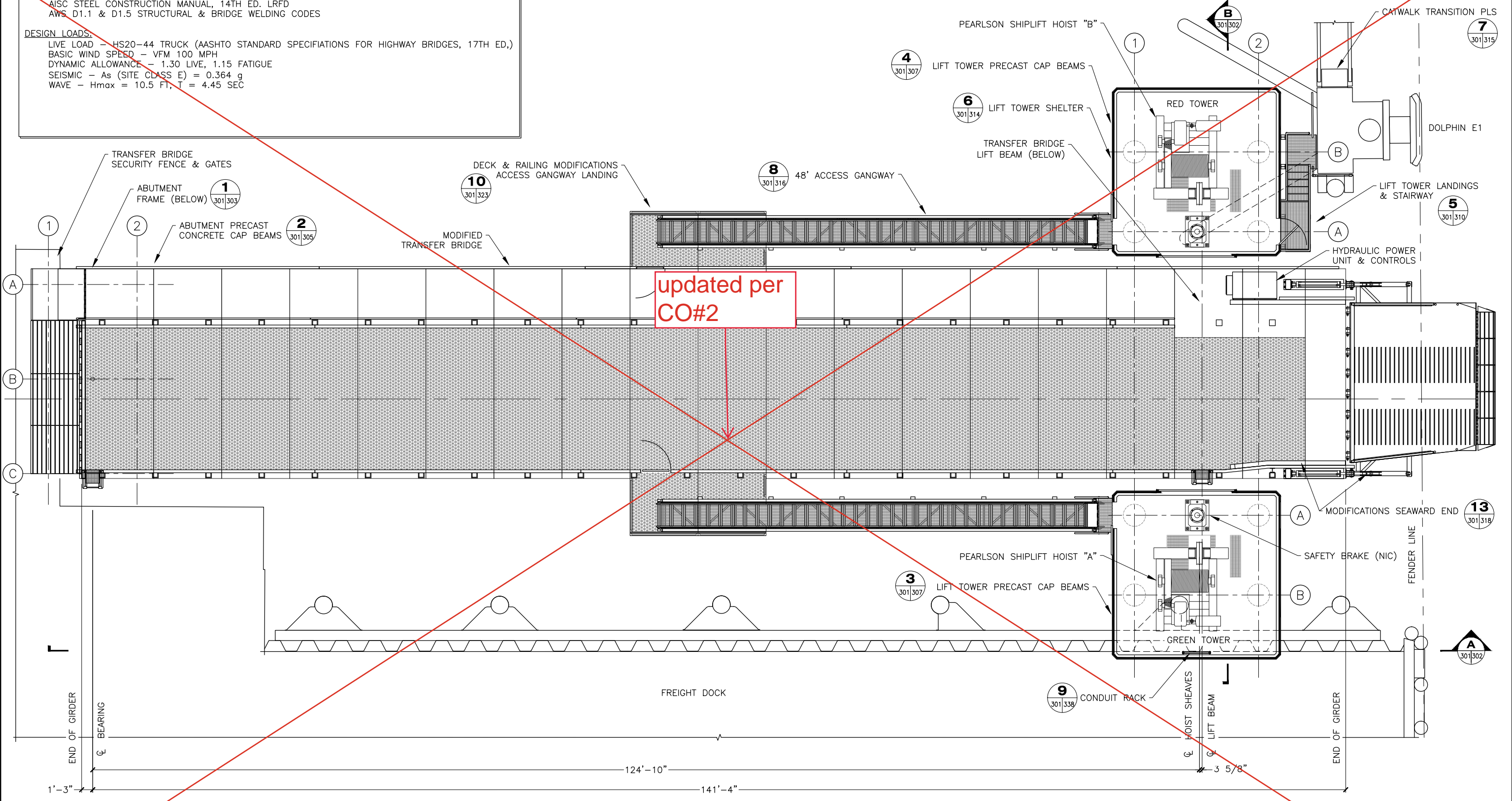
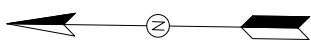
HH 10/01/2024

FILE: \\c:\us\68128\WF\PLANSET\301-302 - TRANSFER BRIDGE LAYOUT - PLAN & ELEVATION.dwg
 DATE: 3/18/2019 14:02 LAYOUT: 301
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

DESIGN SPECIFICATIONS:
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH ED.
 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2 ED.
 AASHTO GUIDE SPECIFICATIONS FOR BRIDGES VULNERABLE TO COASTAL STORMS
 AISC STEEL CONSTRUCTION MANUAL, 14TH ED. LRFD
 AWS D1.1 & D1.5 STRUCTURAL & BRIDGE WELDING CODES

DESIGN LOADS:
 LIVE LOAD - HS20-44 TRUCK (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH ED.)
 BASIC WIND SPEED - VFM 100 MPH
 DYNAMIC ALLOWANCE - 1.30 LIVE, 1.15 FATIGUE
 SEISMIC - As (SITE CLASS E) = 0.364 g
 WAVE - Hmax = 10.5 FT, T = 4.45 SEC

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	301	145



updated per
CO#2

**PLAN
TRANSFER BRIDGE**

ESTIMATED MODIFIED BRIDGE WEIGHT = 265,000 LBS.
 INCLUDES 1/2 APRON WEIGHT, APRON LIFT SYSTEM, GANGWAY LANDINGS AND
 1/2 GANGWAY WEIGHT
 EXCLUDES BRIDGE LIFT BEAM

BRIDGE SHOWN IN HORIZONTAL POSITION



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GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

TRANSFER BRIDGE
 GENERAL LAYOUT

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

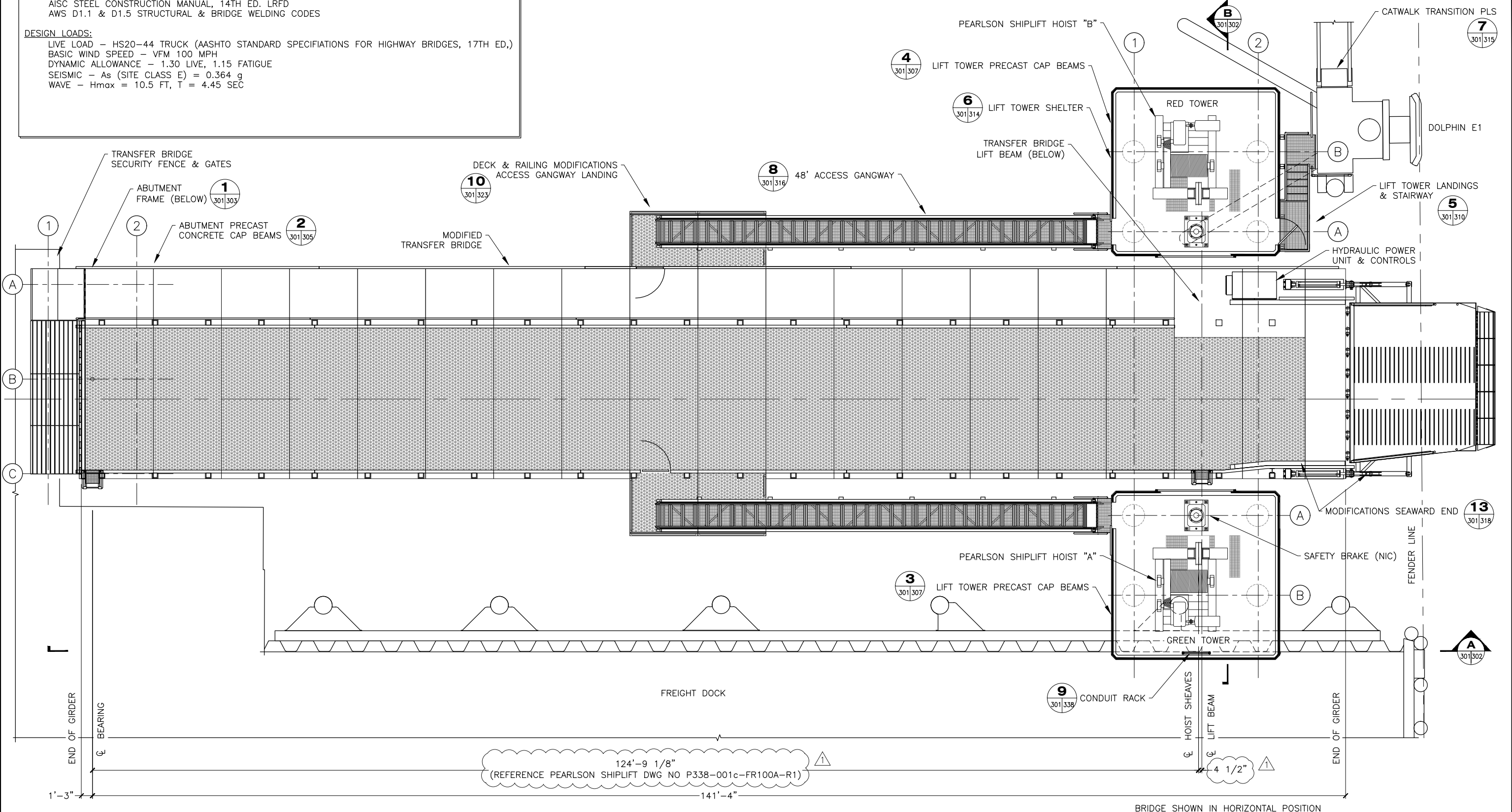
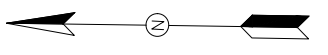
3/18/2019

FILE Q:\us\68128\VF\PLANSET\301-302 - TRANSFER BRIDGE LAYOUT - PLAN & ELEVATION_R1.dwg DATE 3/12/2020 14:39 LAYOUT 301 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

DESIGN SPECIFICATIONS:
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH ED.
 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2 ED.
 AASHTO GUIDE SPECIFICATIONS FOR BRIDGES VULNERABLE TO COASTAL STORMS
 AISC STEEL CONSTRUCTION MANUAL, 14TH ED. LRFD
 AWS D1.1 & D1.5 STRUCTURAL & BRIDGE WELDING CODES

DESIGN LOADS:
 LIVE LOAD - HS20-44 TRUCK (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH ED.)
 BASIC WIND SPEED - VFM 100 MPH
 DYNAMIC ALLOWANCE - 1.30 LIVE, 1.15 FATIGUE
 SEISMIC - A_s (SITE CLASS E) = 0.364 g
 WAVE - H_{max} = 10.5 FT, T = 4.45 SEC

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/12/20	RELOCATED TOWER 0.875" SHOREWARD	ALASKA	Z681280000/0003182	2019	301	145



PLAN
TRANSFER BRIDGE

ESTIMATED MODIFIED BRIDGE WEIGHT = 265,000 LBS.
 INCLUDES 1/2 APRON WEIGHT, APRON LIFT SYSTEM, GANGWAY LANDINGS AND
 1/2 GANGWAY WEIGHT
 EXCLUDES BRIDGE LIFT BEAM

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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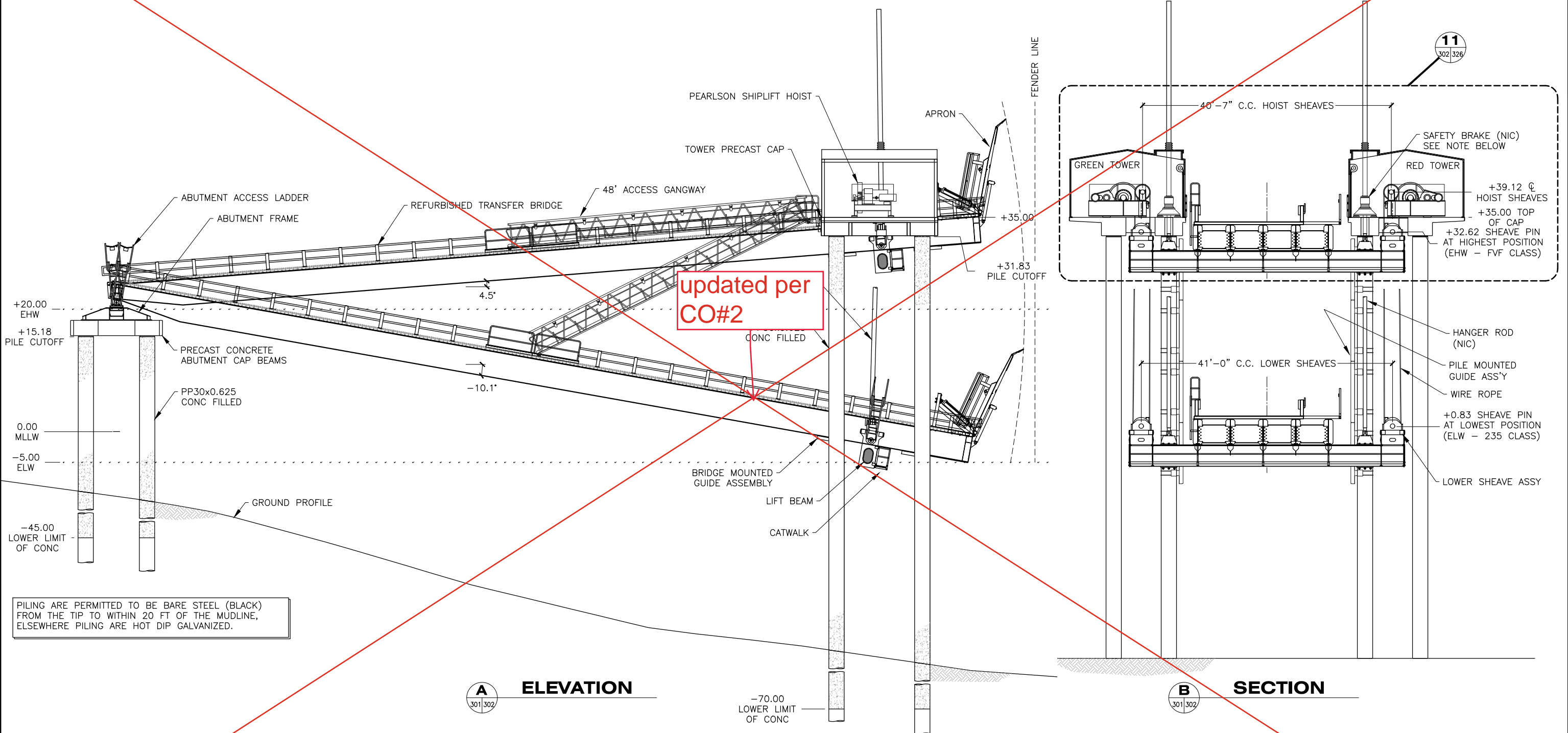
GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

TRANSFER BRIDGE
 GENERAL LAYOUT

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	302	145

FILE: G:\us\68128\WF\PLANSET\301-302 - TRANSFER BRIDGE LAYOUT - PLAN & ELEVATION.dwg
 DATE: 3/18/2019 14:02 LAYOUT: 302
 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF



PILING ARE PERMITTED TO BE BARE STEEL (BLACK) FROM THE TIP TO WITHIN 20 FT OF THE MUDLINE, ELSEWHERE PILING ARE HOT DIP GALVANIZED.

PLANNED MODIFICATIONS TO BRIDGE LIFT SYSTEM INCLUDE ADDITION OF REDUNDANT SUPPORT SPANNING BETWEEN THE LIFT BEAM AND TOWER. THE SUPPORT CONSISTS OF A HANGER ROD ATTACHED TO THE LIFT BEAM AND A SAFETY BRAKE AT THE TOWER.

THESE COMPONENTS ARE NOT INCLUDED IN THIS CONTRACT (NIC) BUT TOWER AND LIFT BEAM HAVE BEEN DESIGNED TO ADD THESE COMPONENTS IN THE FUTURE.

IN THE INTERIM, A BRIDGE MAINTENANCE SUPPORT WITH CHAIN AND ATTACHMENTS IS INCLUDED IN THIS CONTRACT TO SUSPEND BRIDGE DURING HOIST MAINTENANCE.



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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

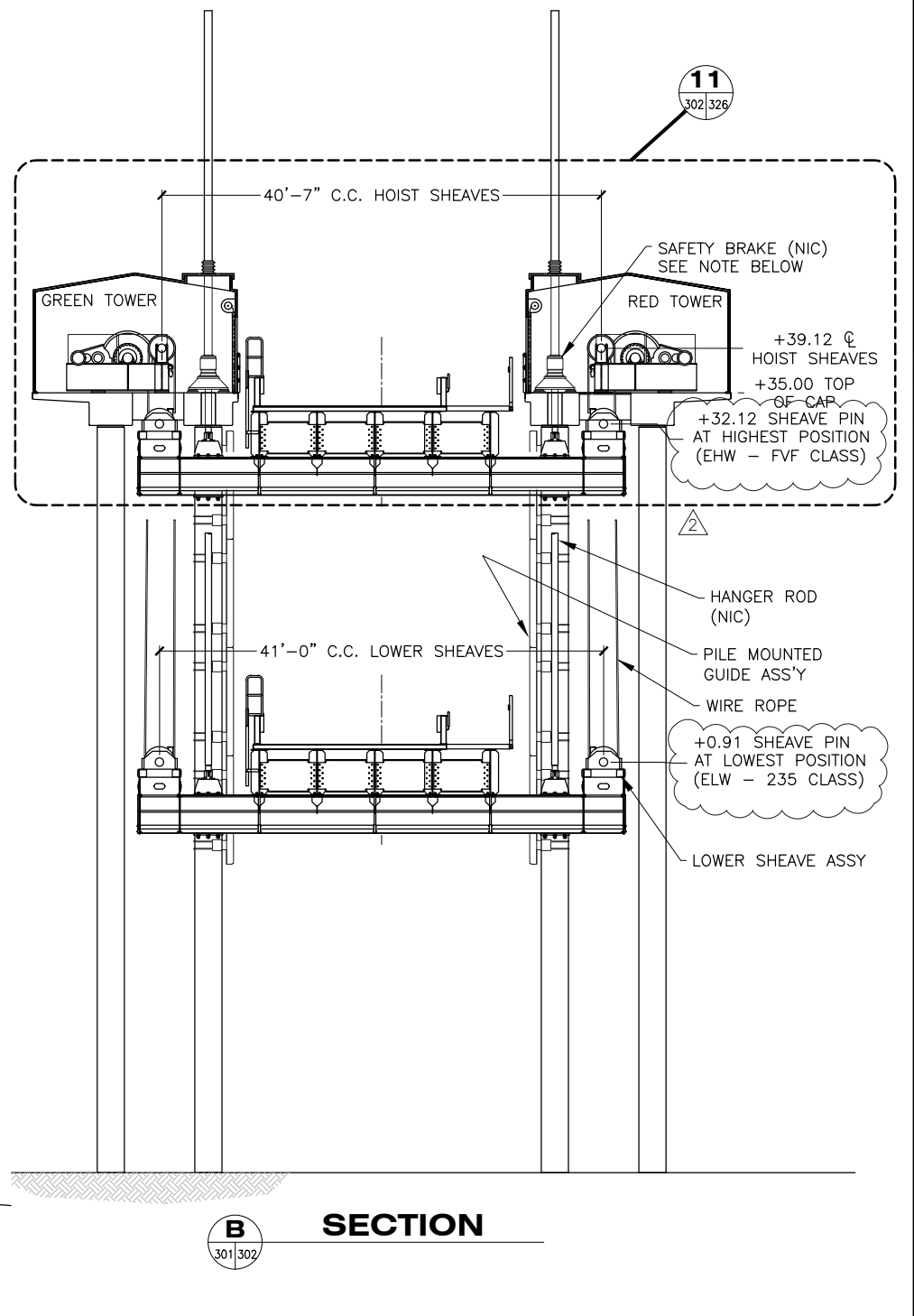
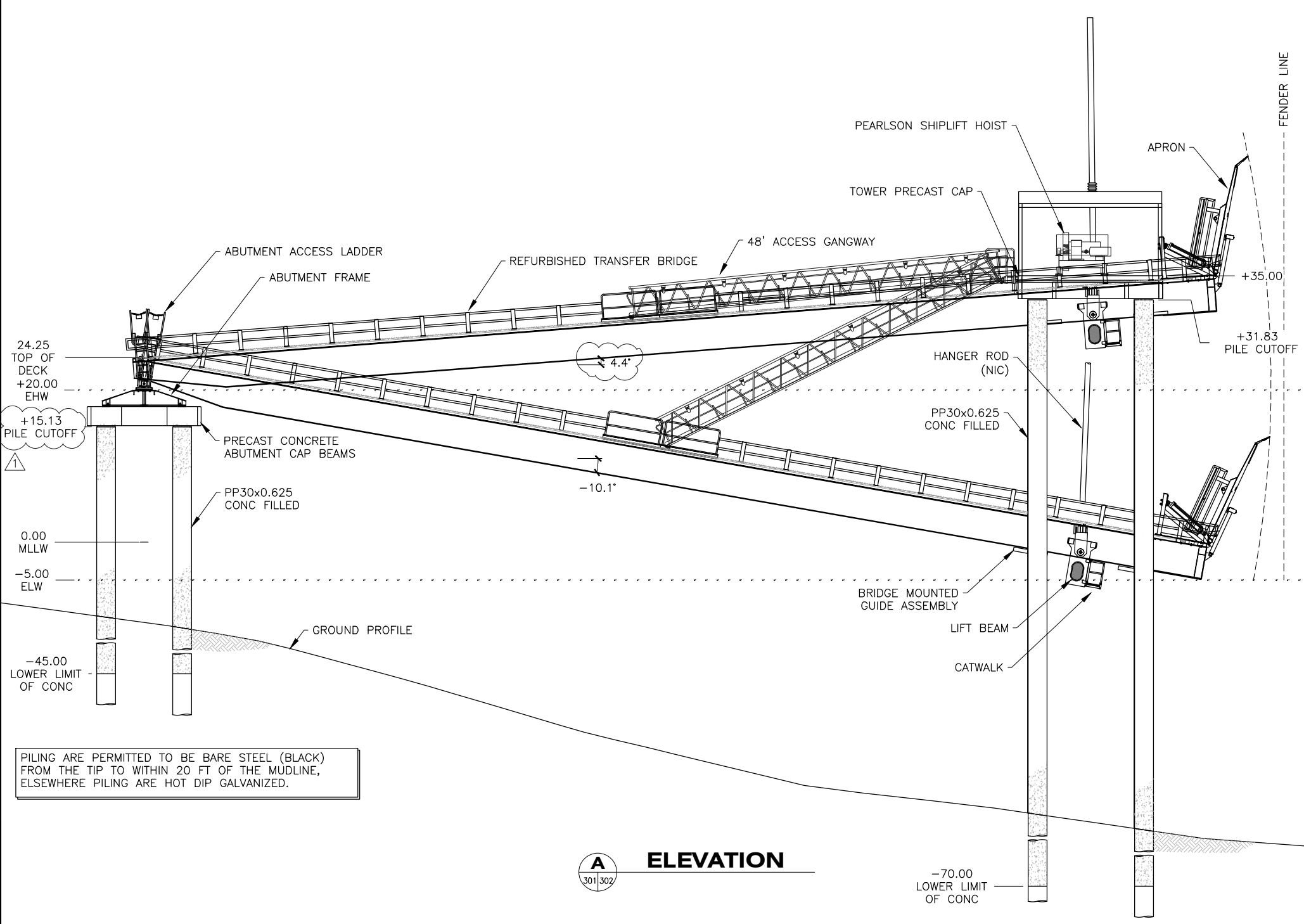
TRANSFER BRIDGE ELEVATION & SECTION

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/12/20	CUT OFF ELEV LOWERED 0.625"	ALASKA	Z681280000/0003182	2019	302	145
2	3/12/20	LOWERED LIFT BEAM STOWED ELEV 0.50'					

FILE Q:\ous\68128\VF\PLANSET\301-302 - TRANSFER BRIDGE LAYOUT - PLAN & ELEVATION_R1.dwg
 DATE 3/12/2020 14:33 LAYOUT 302
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



PLANNED MODIFICATIONS TO BRIDGE LIFT SYSTEM INCLUDE ADDITION OF REDUNDANT SUPPORT SPANNING BETWEEN THE LIFT BEAM AND TOWER. THE SUPPORT CONSISTS OF A HANGER ROD ATTACHED TO THE LIFT BEAM AND A SAFETY BRAKE AT THE TOWER.

THESE COMPONENTS ARE NOT INCLUDED IN THIS CONTRACT (NIC) BUT TOWER AND LIFT BEAM HAVE BEEN DESIGNED TO ADD THESE COMPONENTS IN THE FUTURE.

IN THE INTERIM, A BRIDGE MAINTENANCE SUPPORT WITH CHAIN AND ATTACHMENTS IS INCLUDED IN THIS CONTRACT TO SUSPEND BRIDGE DURING HOIST MAINTENANCE.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE ELEVATION & SECTION
 HH 10/01/2024

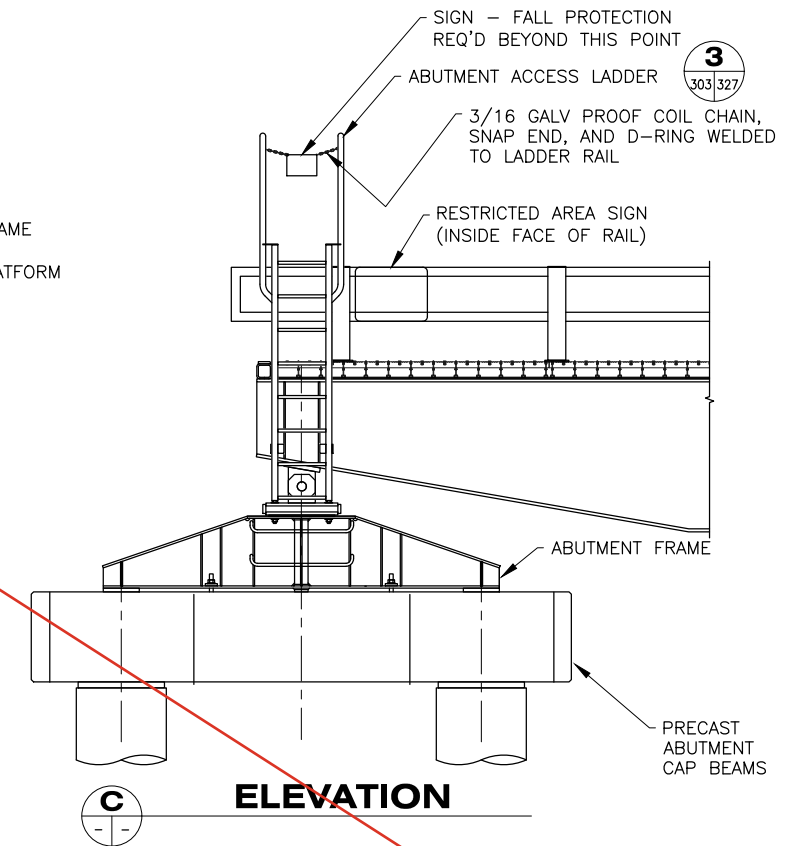
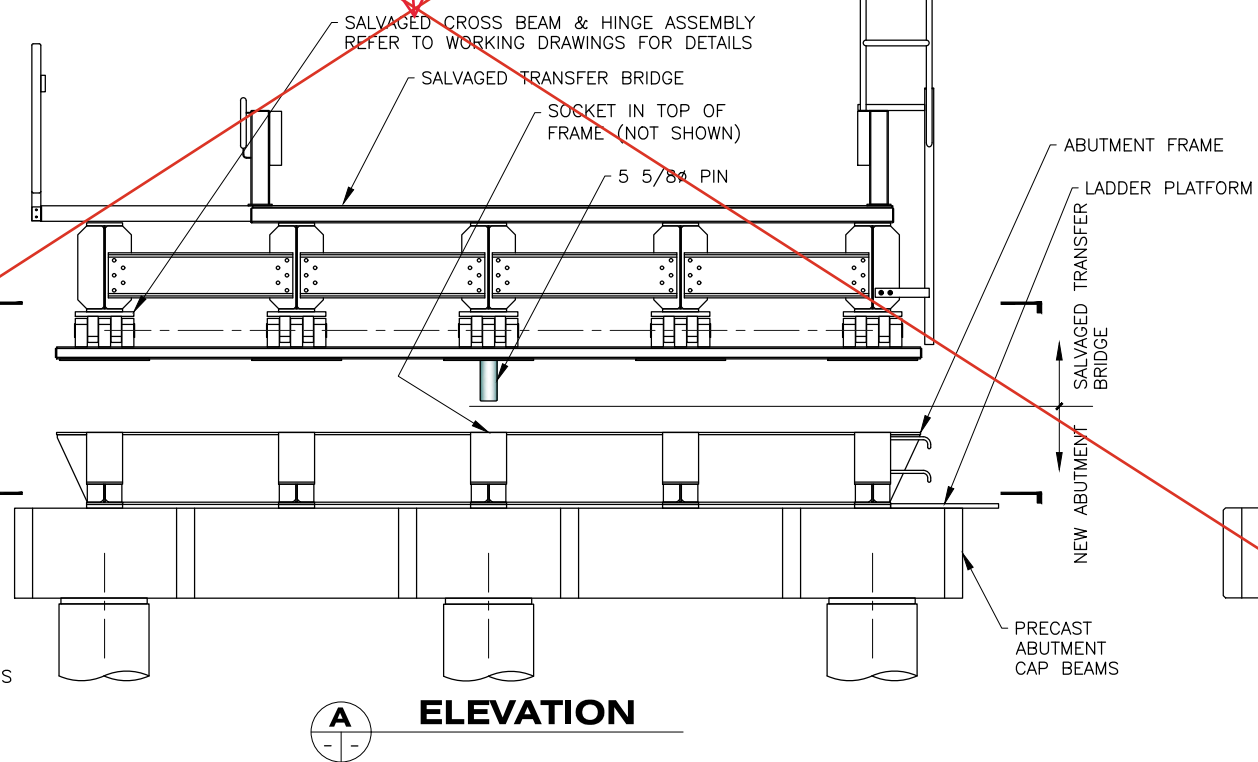
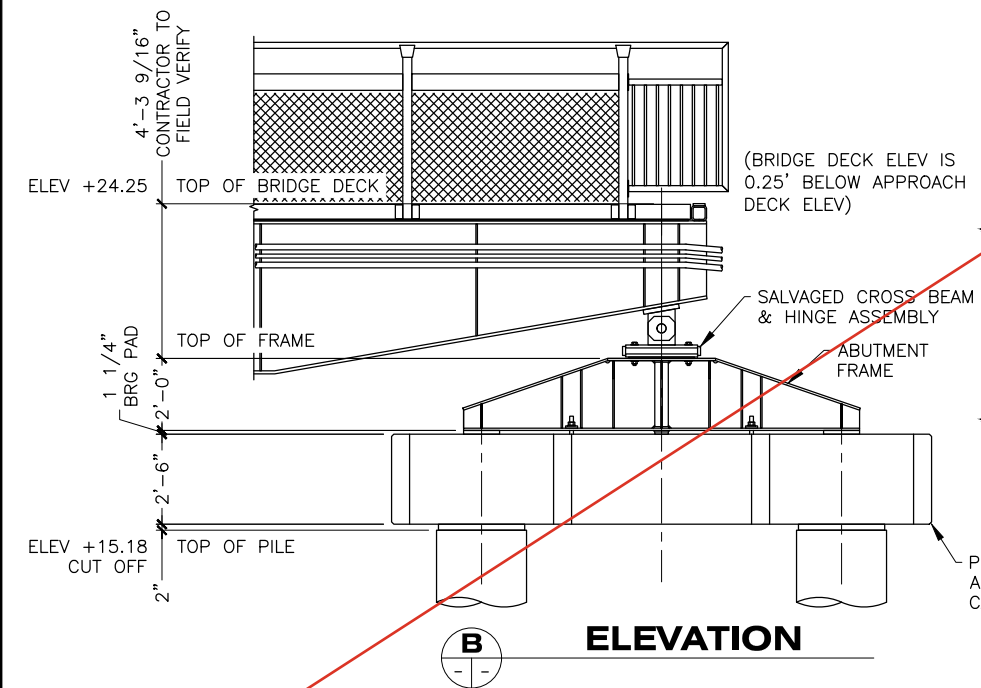
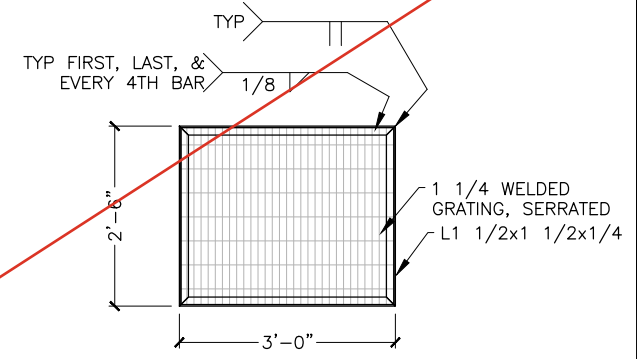
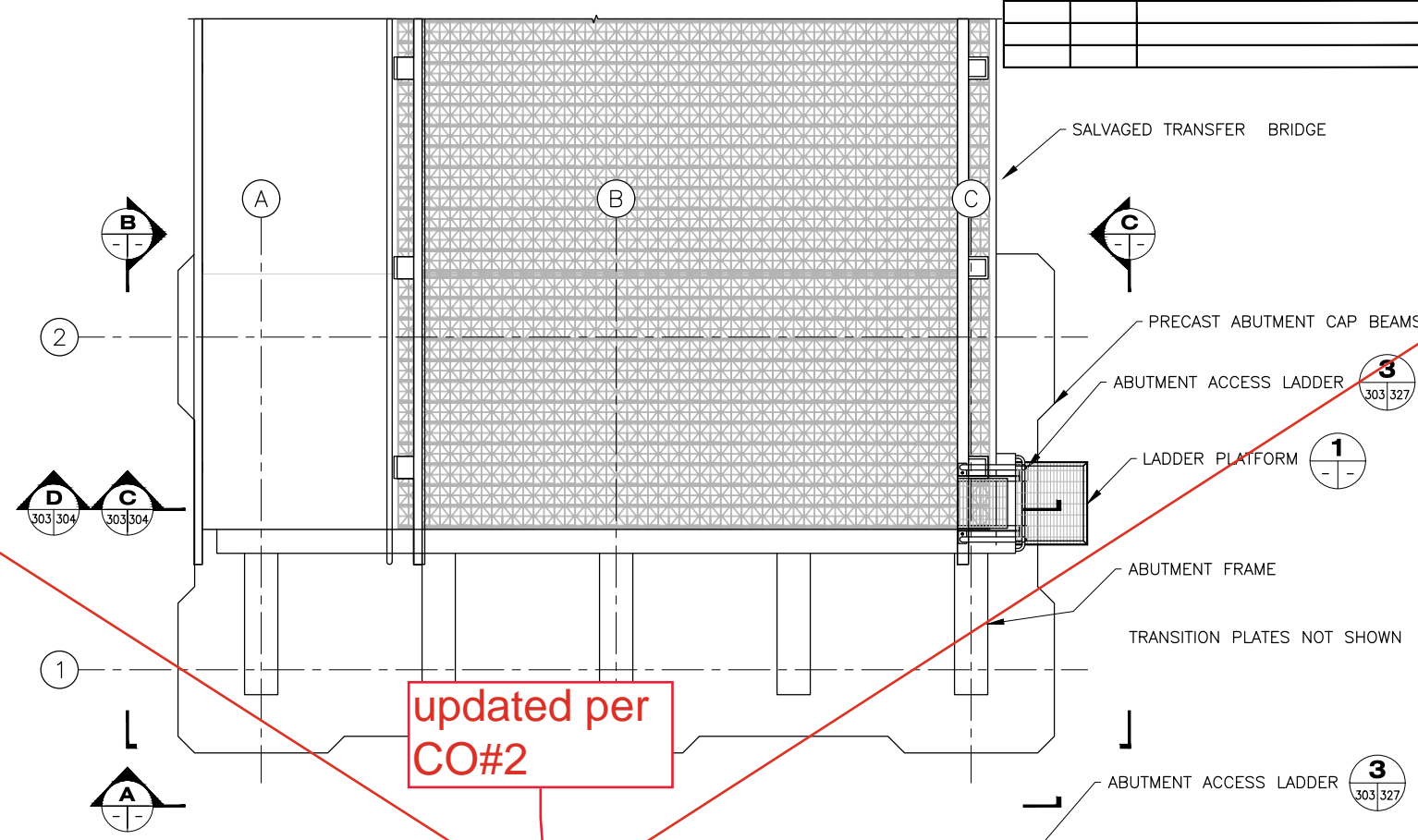
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

FILE: G:\us\68128\WF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER.dwg DATE: 3/18/2019 14:01 LAYOUT: 303 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	303	145

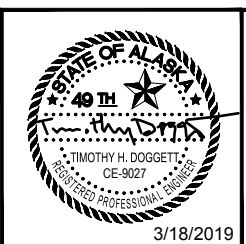
RECOMMENDED ABUTMENT ASSEMBLY

1. **INSTALL PILING:** DRIVE ABUTMENT PILES, CLEAN OUT THE PIPE INTERIOR, PLACE LONGITUDINAL REINFORCEMENT AND CONCRETE.
2. **PLACE PRECAST CONCRETE ABUTMENT CAP:** PLACE PRECAST CONCRETE ABUTMENT CAP BY THREADING LONGITUDINAL REINFORCEMENT OF PILES THROUGH THE PILE POCKETS. TEMPORARILY SHORE ABUTMENT CAP BEAMS LEVEL AND AT PROPER ELEVATION. PLACE CONCRETE IN PILE POCKETS AND SCREED CONCRETE INFILL FLUSH WITH TOP OF ABUTMENT CAP BEAMS.
3. **PLACE ABUTMENT FRAME:** INSTALL ABUTMENT FRAME TO PRECAST CONCRETE ABUTMENT CAP BEAMS. FILL SHEAR LUG SOCKETS WITH LOW VISCOSITY EPOXY JUST PRIOR TO SETTING ABUTMENT FRAME TO FILL VOIDS AND PREVENT WATER ACCUMULATION IN SOCKETS. PLACE ABUTMENT FRAME AND SECURE TO CAP WITH ANCHOR BOLTS.
4. **PLACE SALVAGED TRANSFER BRIDGE:** PIN OF CROSS BEAM ASSEMBLY FITS IN SOCKET IN TOP OF ABUTMENT FRAME. SUPPORT SEAWARD END OF BRIDGE WITH LIFT SYSTEM.
5. **FASTEN BRIDGE CROSS BEAM TO ABUTMENT FRAME:** CENTER BRIDGE BETWEEN TOWERS AS SHOWN ON THE PLANS. FIELD DRILL HOLES IN ABUTMENT FRAME AND INSTALL BOLTS THROUGH CROSS BEAM TO SECURE TO TOP FLANGE OF ABUTMENT FRAME.



1 ABUTMENT FRAME

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ABUTMENT FRAME

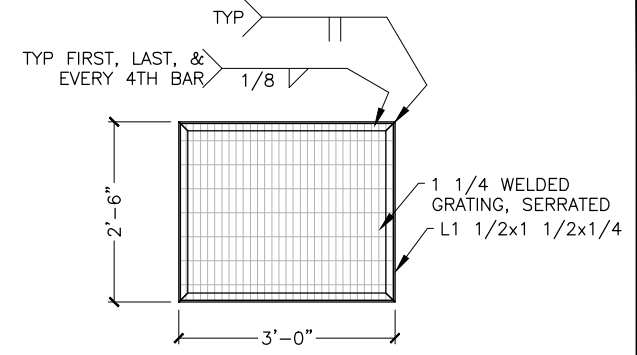
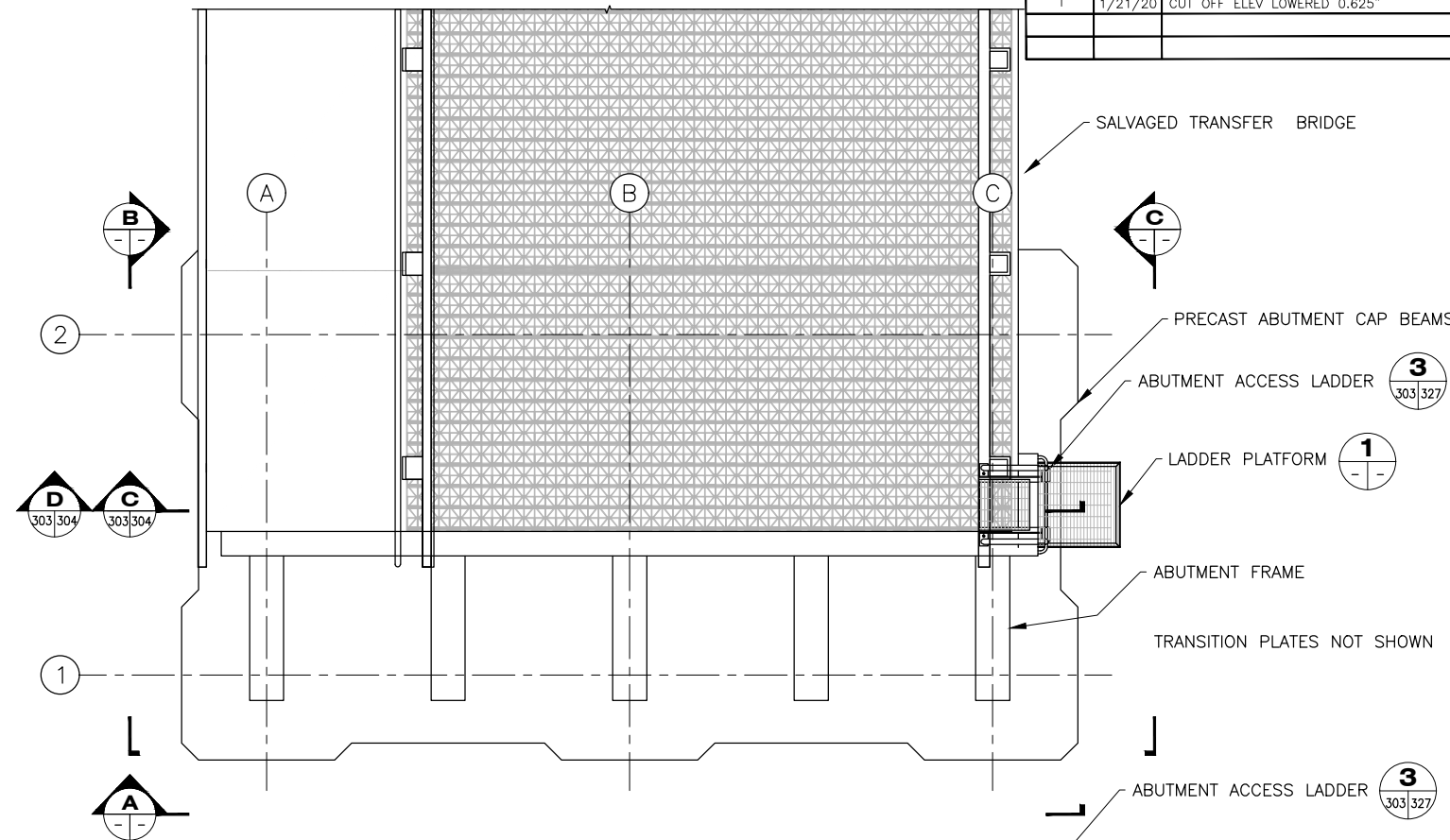
HH 10/01/2024

FILE Q:\ous\68128\VF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER_R2.dwg DATE 1/21/2020 16:02 LAYOUT 303 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

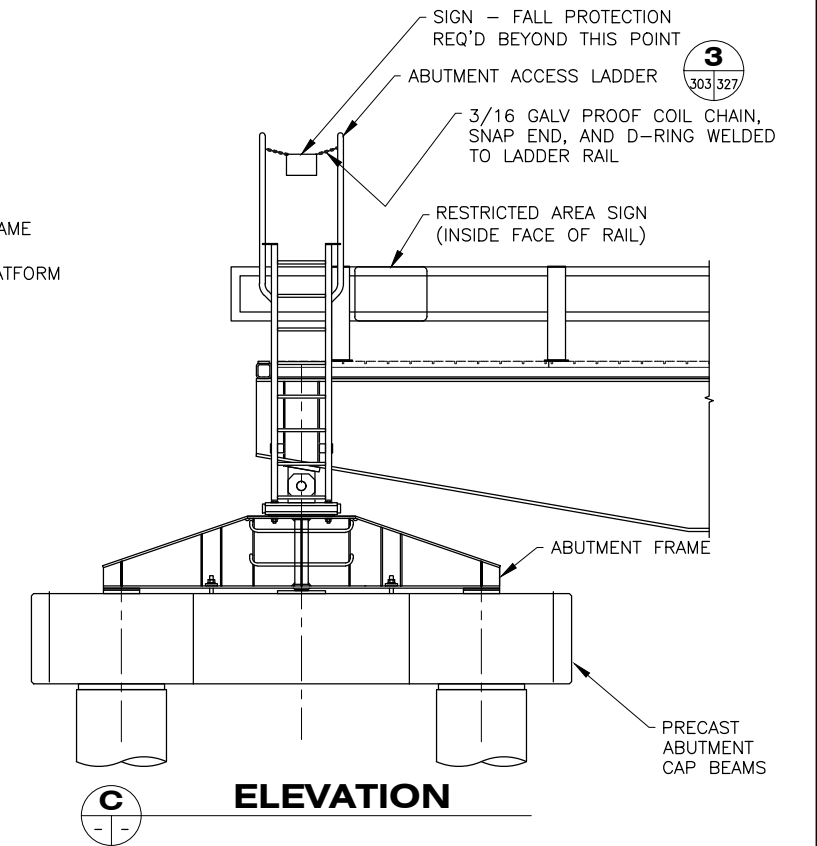
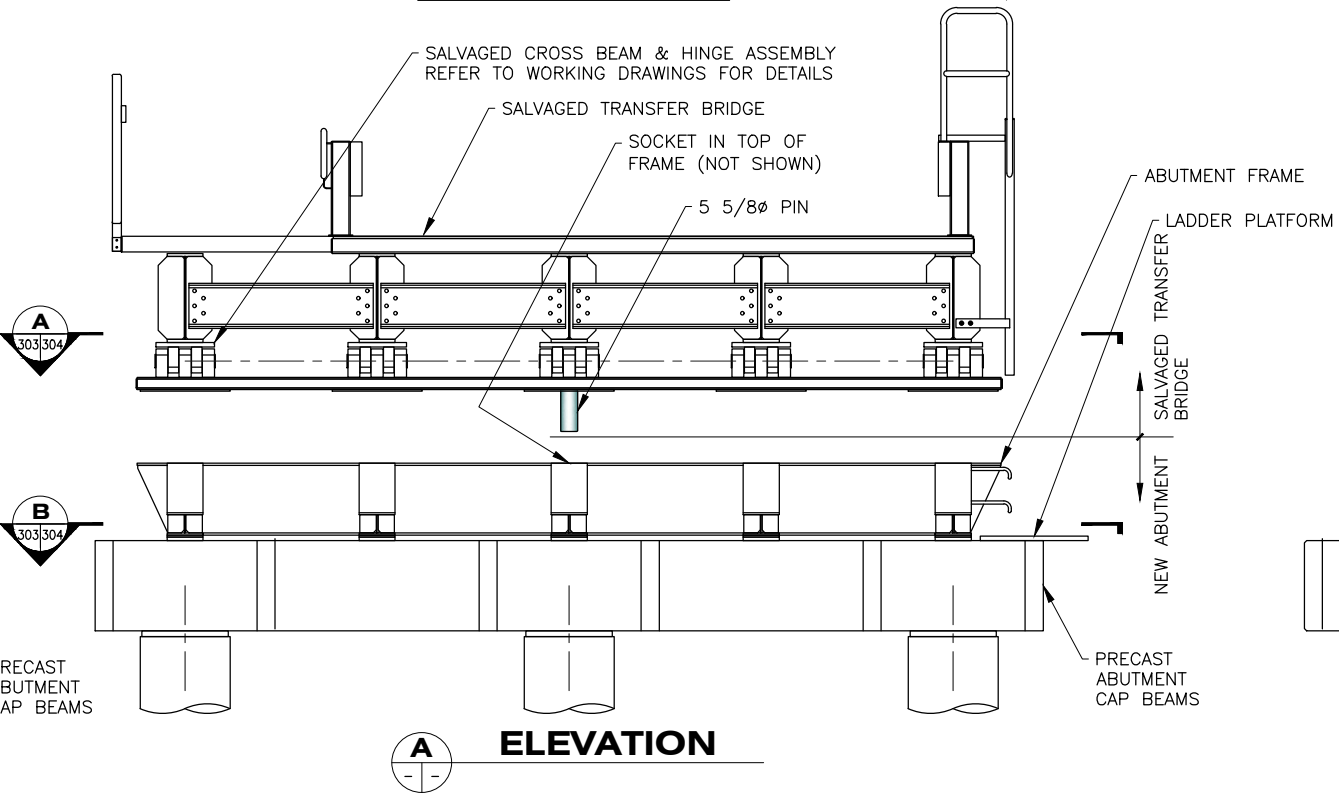
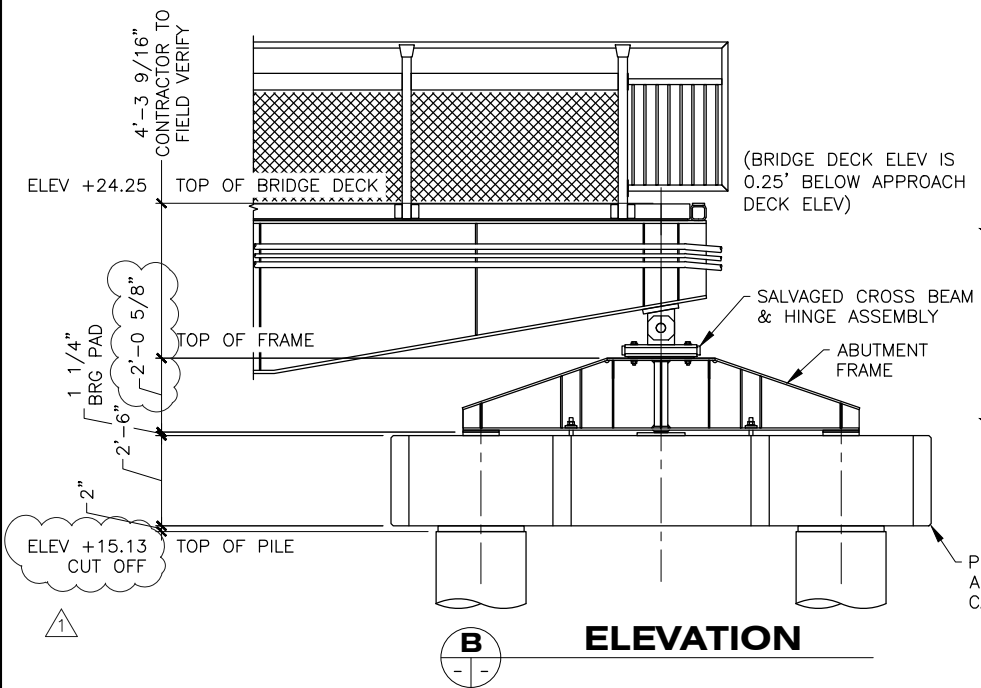
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	1/21/20	CUT OFF ELEV LOWERED 0.625"	ALASKA	Z681280000/0003182	2019	303	145

RECOMMENDED ABUTMENT ASSEMBLY

1. **INSTALL PILING:** DRIVE ABUTMENT PILES, CLEAN OUT THE PIPE INTERIOR, PLACE LONGITUDINAL REINFORCEMENT AND CONCRETE.
2. **PLACE PRECAST CONCRETE ABUTMENT CAP:** PLACE PRECAST CONCRETE ABUTMENT CAP BY THREADING LONGITUDINAL REINFORCEMENT OF PILES THROUGH THE PILE POCKETS. TEMPORARILY SHORE ABUTMENT CAP BEAMS LEVEL AND AT PROPER ELEVATION. PLACE CONCRETE IN PILE POCKETS AND SCREED CONCRETE INFILL FLUSH WITH TOP OF ABUTMENT CAP BEAMS.
3. **PLACE ABUTMENT FRAME:** INSTALL ABUTMENT FRAME TO PRECAST CONCRETE ABUTMENT CAP BEAMS. FILL SHEAR LUG SOCKETS WITH LOW VISCOSITY EPOXY JUST PRIOR TO SETTING ABUTMENT FRAME TO FILL VOIDS AND PREVENT WATER ACCUMULATION IN SOCKETS. PLACE ABUTMENT FRAME AND SECURE TO CAP WITH ANCHOR BOLTS.
4. **PLACE SALVAGED TRANSFER BRIDGE:** PIN OF CROSS BEAM ASSEMBLY FITS IN SOCKET IN TOP OF ABUTMENT FRAME. SUPPORT SEAWARD END OF BRIDGE WITH LIFT SYSTEM.
5. **FASTEN BRIDGE CROSS BEAM TO ABUTMENT FRAME:** CENTER BRIDGE BETWEEN TOWERS AS SHOWN ON THE PLANS. FIELD DRILL HOLES IN ABUTMENT FRAME AND INSTALL BOLTS THROUGH CROSS BEAM TO SECURE TO TOP FLANGE OF ABUTMENT FRAME.



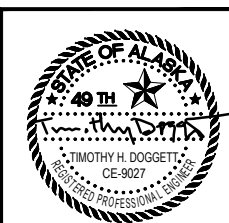
PLAN



ABUTMENT FRAME

1
301/303

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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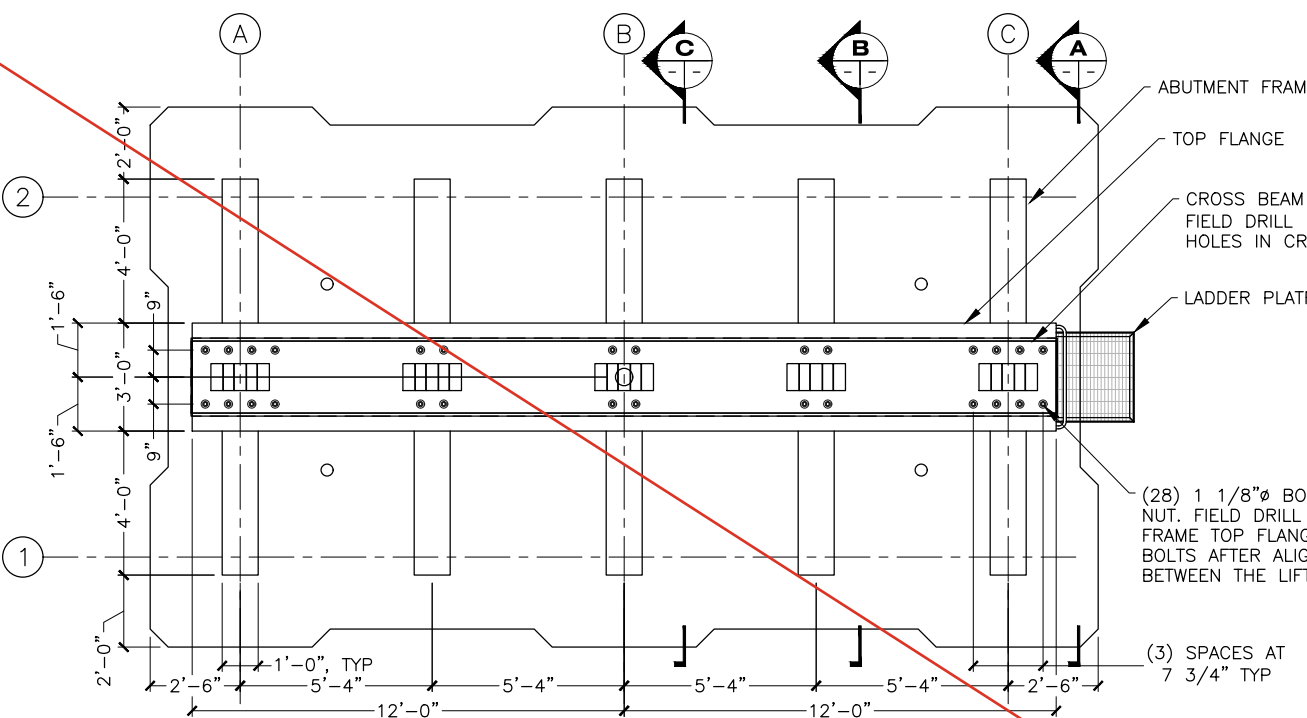
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ABUTMENT FRAME

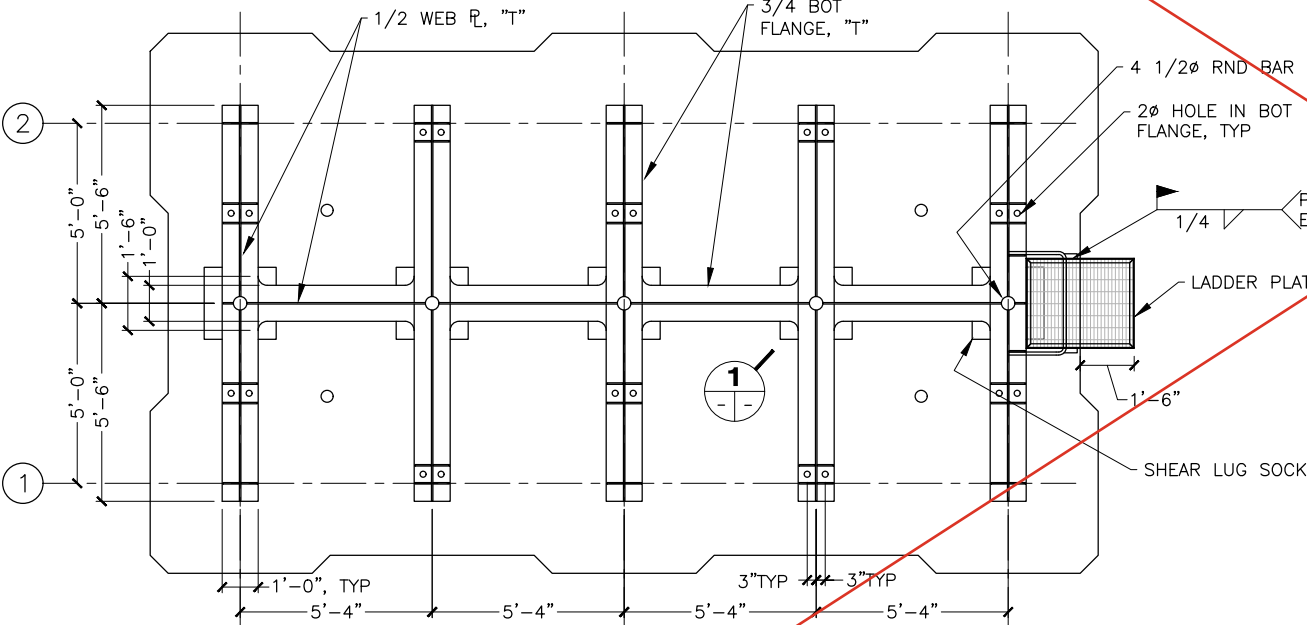
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	304	145

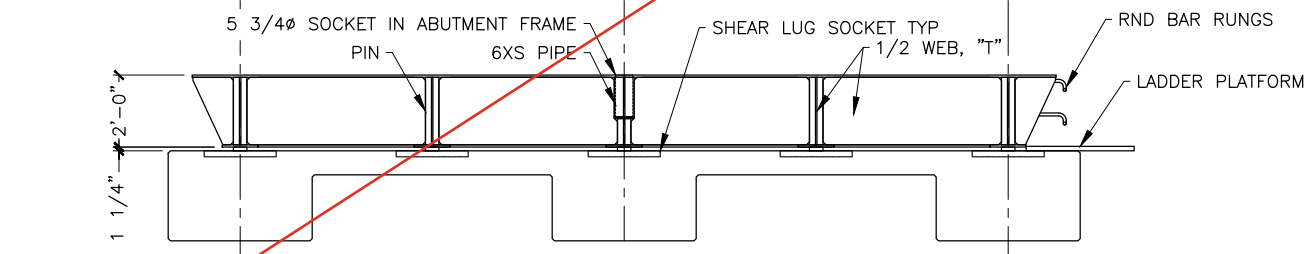
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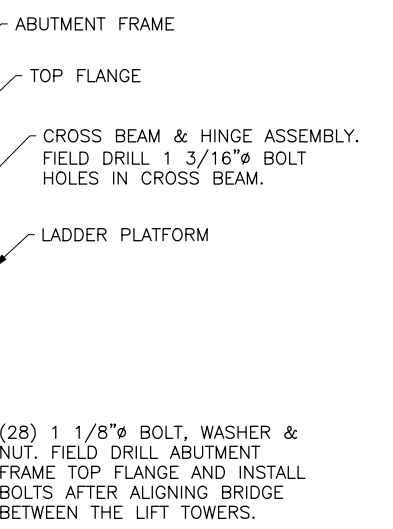
A PLAN TOP FLANGE
303.304



B SECTION BOTTOM FLANGE
303.304



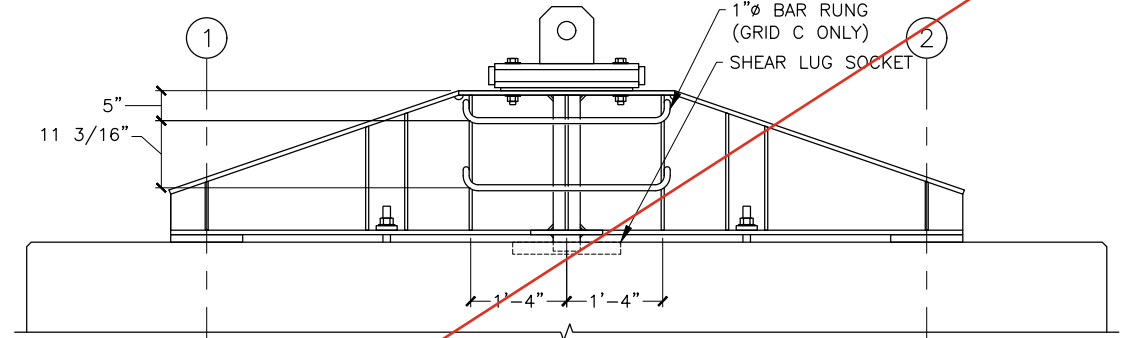
C SECTION
303.304



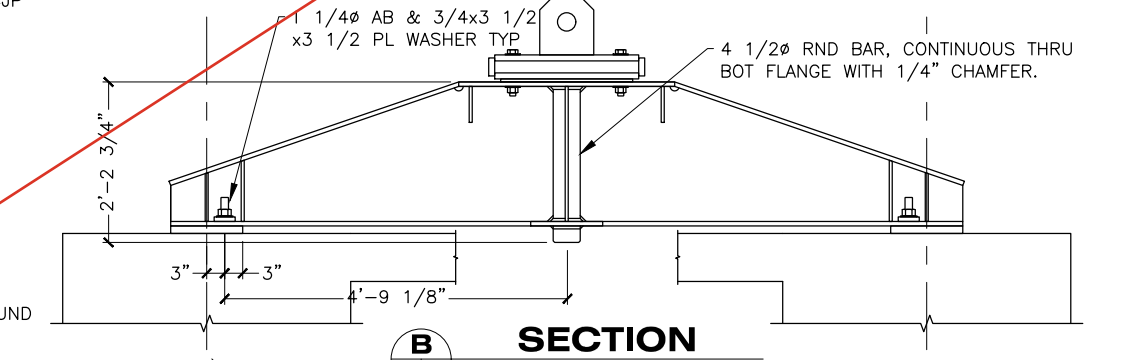
updated per
CO#2

DETAIL

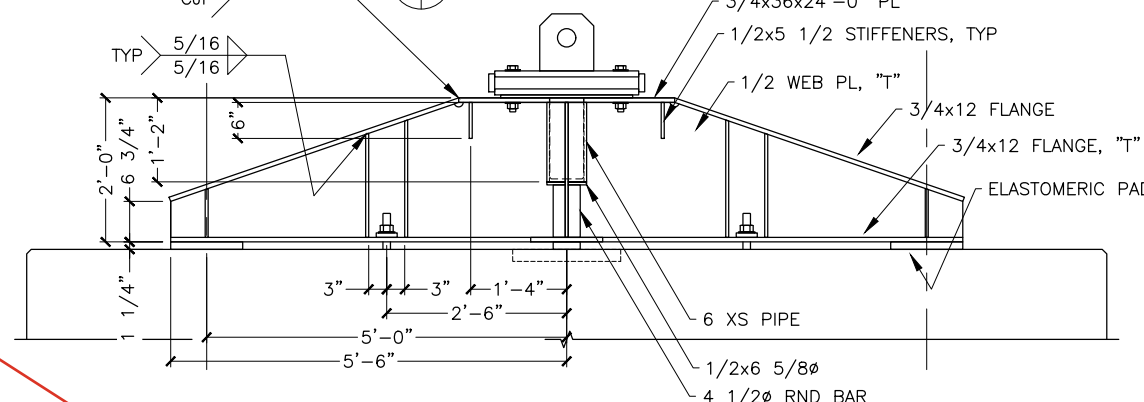
- NOTES:
 1. CJP WELD WITH 3" RADIUS WELD TRANSITION AND WELD TERMINATION GROUND SMOOTH.
 2. CONTRACTOR SHALL TEST FIT THE ABUTMENT FRAME TO THE PRECAST CAP BEAMS PRIOR TO SHIPPING ON SITE TO ENSURE FIT OF SHEAR LUGS AND ANCHOR BOLTS.
 3. FILL SHEAR LUG SOCKET WITH LOW VISCOSITY EPOXY PRIOR TO PLACING ABUTMENT FRAME IN THE FIELD. EPOXY SHALL FILL SOCKET COMPLETELY TO PREVENT WATER ACCUMULATION.
 4. THE ABUTMENT FRAME IS A PRIMARY MEMBER. COMPONENTS OF ABUTMENT FRAME SUBJECT TO TENSION ARE DESIGNATED AS "T" ON THE DRAWINGS. FOR THESE COMPONENTS:
 4.1. CHARPY V-NOTCH IMPACT ENERGY REQUIREMENTS SHALL BE IN ACCORDANCE WITH ASTM A709.
 4.2. FABRICATION AND NDT SHALL COMPLY WITH AWS D1.5.



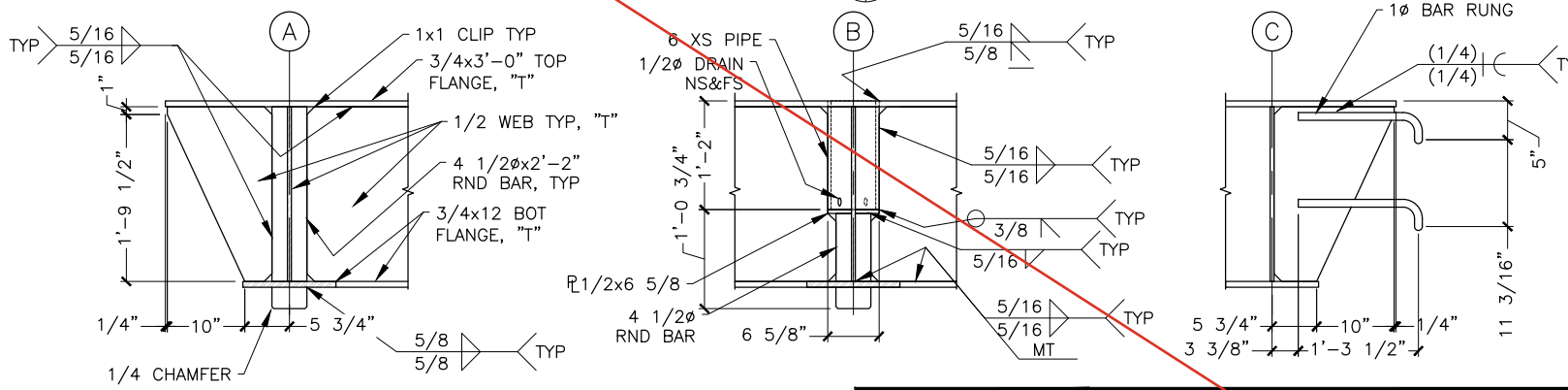
A SECTION
TYP GRIDS A & C



B SECTION



C SECTION



D SECTION
303.304



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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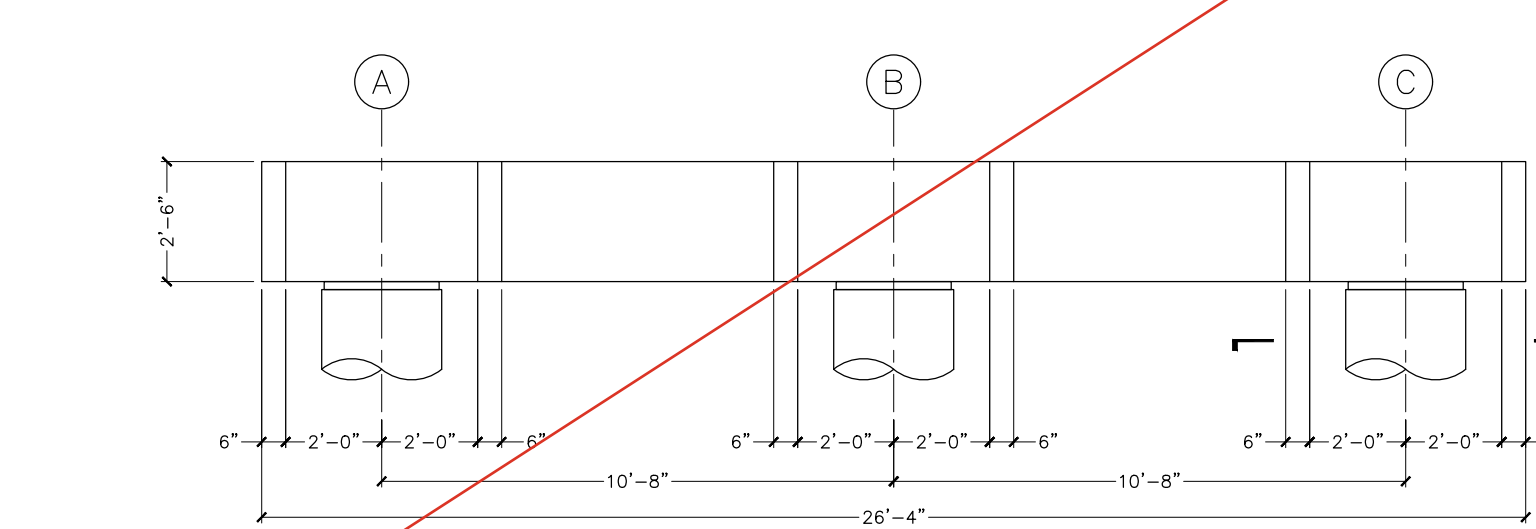
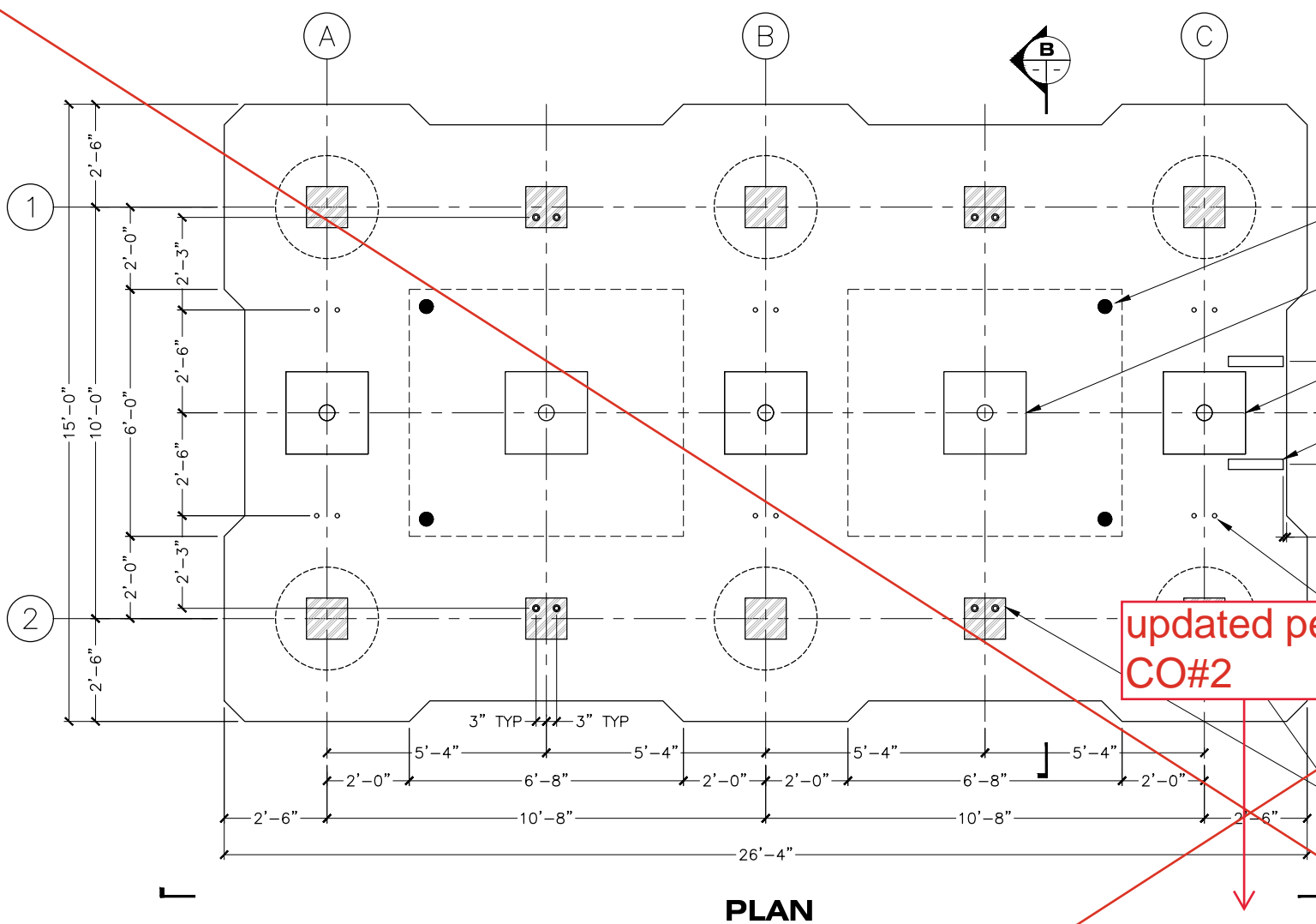
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ABUTMENT FRAME

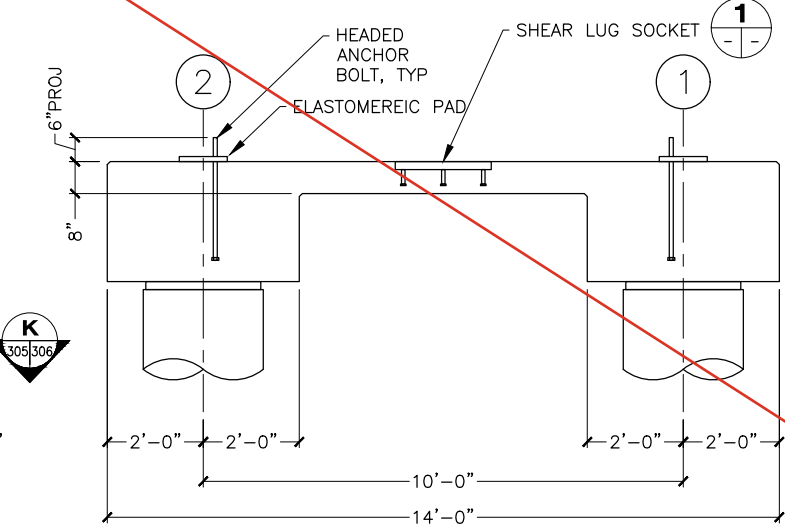
HH 10/01/2024

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	305	145



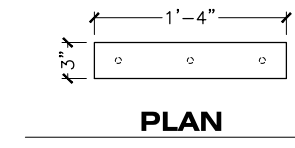
A ELEVATION



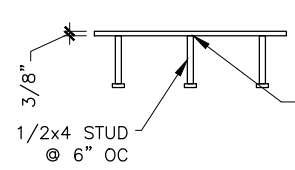
B SECTION

2 ABUTMENT PRECAST CONCRETE CAP BEAMS

updated per CO#2

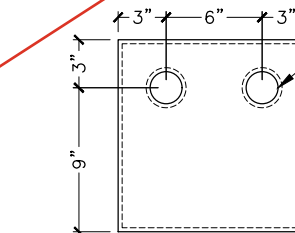


PLAN

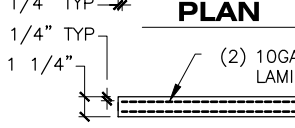


ELEVATION

3 EMBED PL
(2) REQUIRED

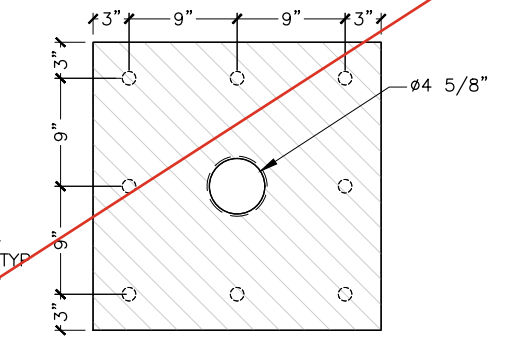


PLAN

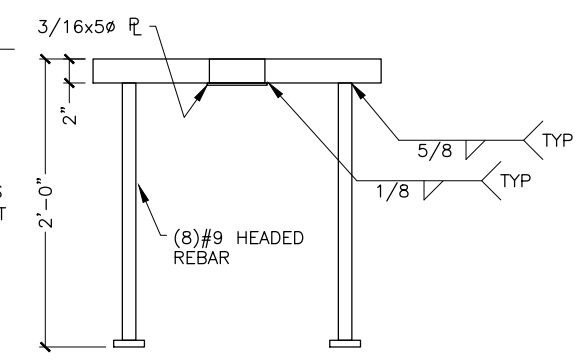


ELEVATION

4 ELASTOMERIC PAD
GRADE 5, SHEAR MODULUS 115 PSI
DL = 10K LL = 15K

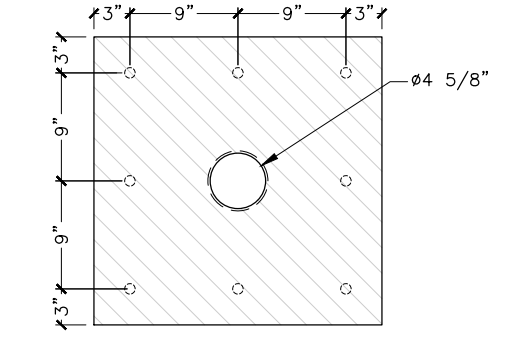


PLAN

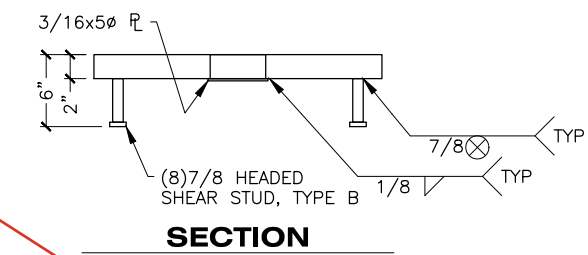


SECTION

2 SHEAR LUG SOCKET
(3) REQUIRED



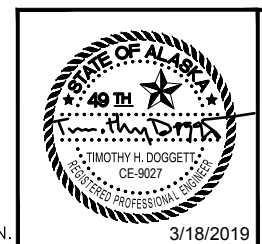
PLAN



SECTION

1 SHEAR LUG SOCKET
(2) REQUIRED

- NOTE:
- RECOMMEND USE OF TEMPLATE TO ACCURATELY LOCATE SHEAR LUG SOCKET EMBEDDED PLATES.
 - TOP OF ALL EMBEDDED PLATES FLUSH WITH TOP OF CAP BEAMS.
 - FORMED AND UNFORMED SURFACES TO BE "PLAIN FINISH".
 - ESTIMATED WEIGHT = 110,000 LBS. (PILE POCKETS UNFILLED)
 - CHAMFER EDGES 3/4", TYP.



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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ABUTMENT PRECAST CAP BEAMS

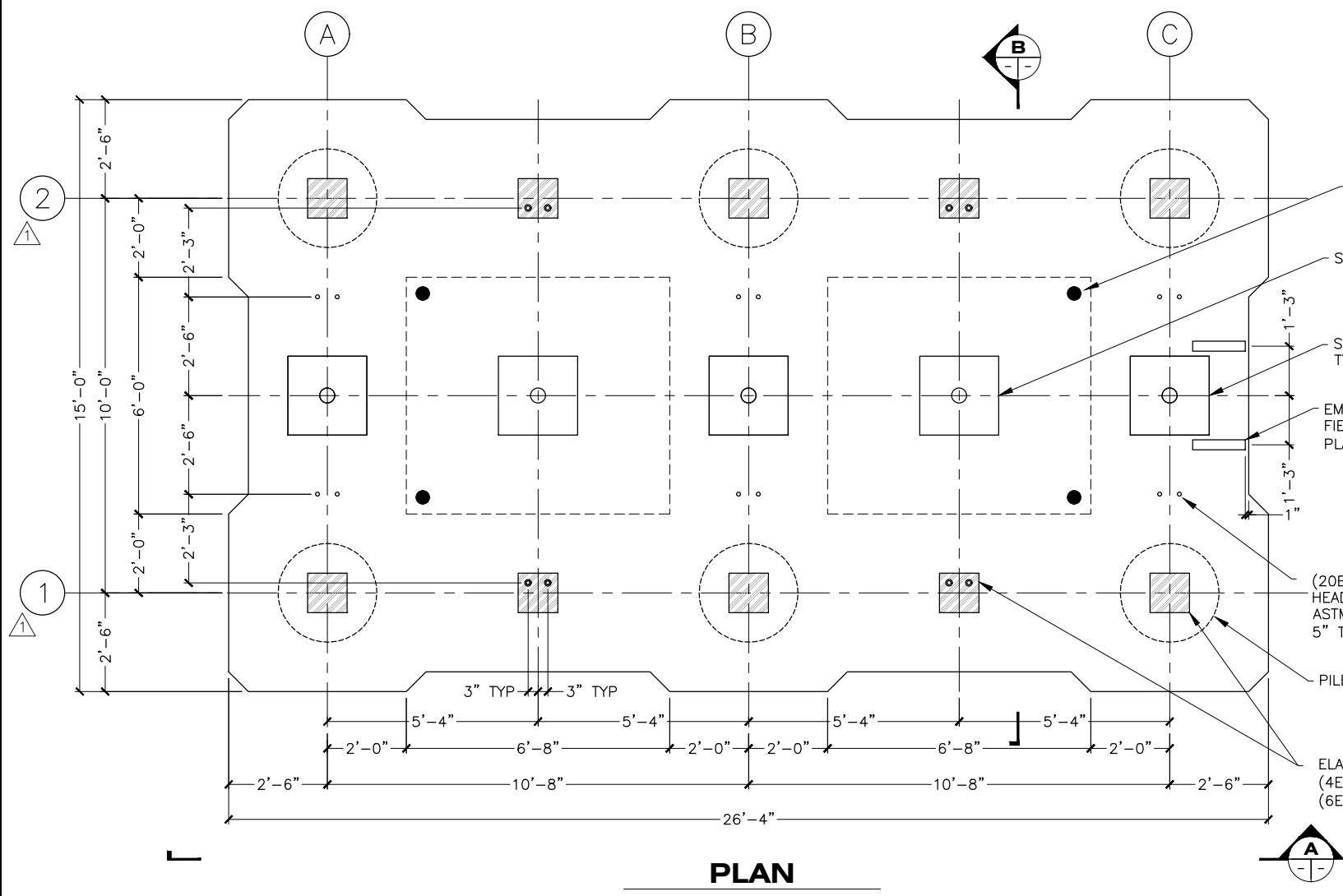
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

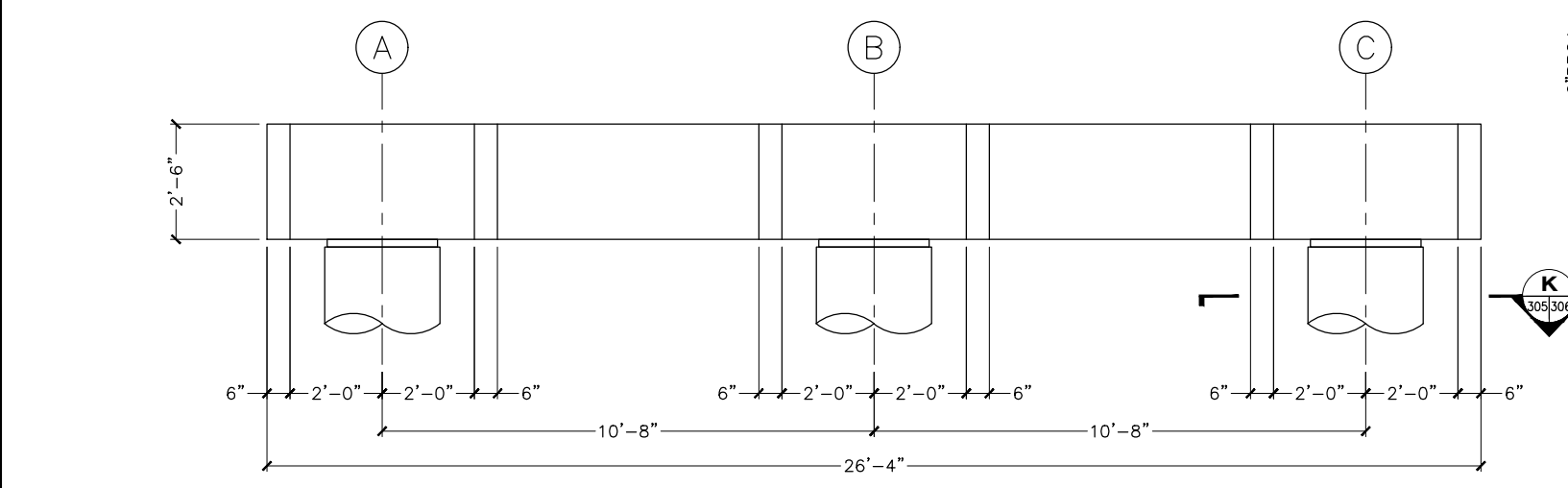
HH 10/01/2024

FILE Q:\ous\68128\VF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER_R2.dwg
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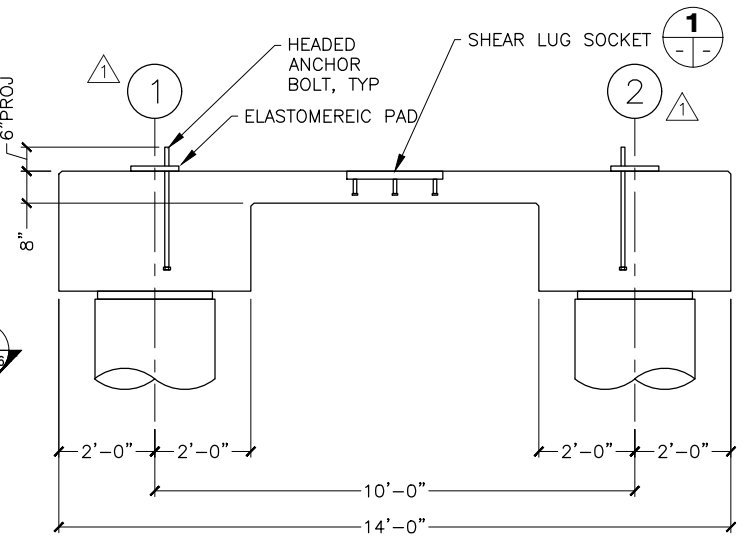
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/26/19	GRID DESIGNATION	ALASKA	Z681280000/0003182	2019	305	145



PLAN



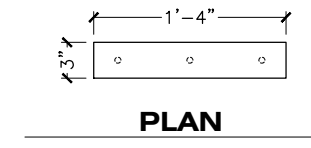
A ELEVATION



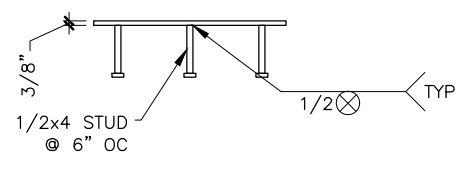
B SECTION

2 ABUTMENT PRECAST CONCRETE CAP BEAMS

- NOTE:
- RECOMMEND USE OF TEMPLATE TO ACCURATELY LOCATE SHEAR LUG SOCKET EMBEDDED PLATES.
 - TOP OF ALL EMBEDDED PLATES FLUSH WITH TOP OF CAP BEAMS.
 - FORMED AND UNFORMED SURFACES TO BE "PLAIN FINISH".
 - ESTIMATED WEIGHT = 110,000 LBS. (PILE POCKETS UNFILLED)
 - CHAMFER EDGES 3/4", TYP.



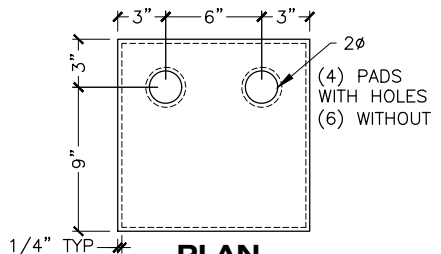
PLAN



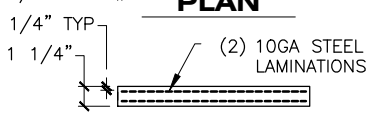
ELEVATION

3 EMBED PL

(2) REQUIRED



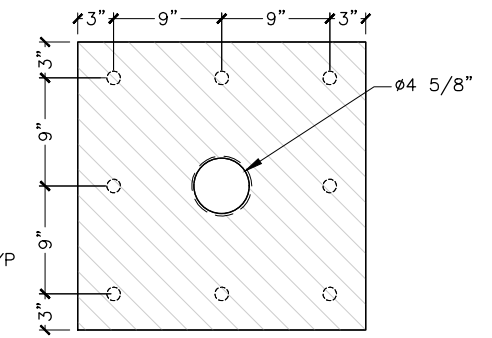
PLAN



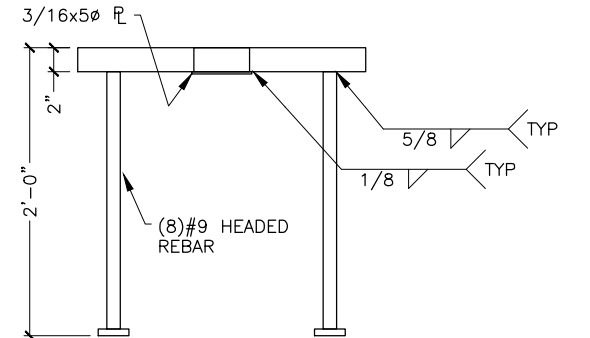
ELEVATION

4 ELASTOMERIC PAD

GRADE 5, SHEAR MODULUS 115 PSI
DL = 10K LL = 15K



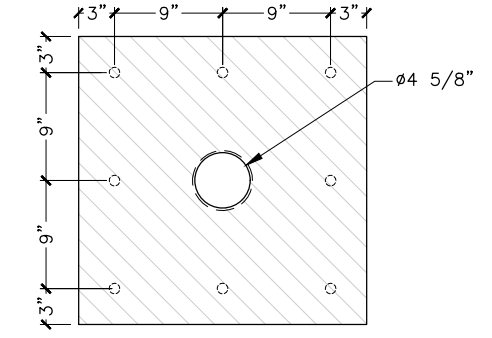
PLAN



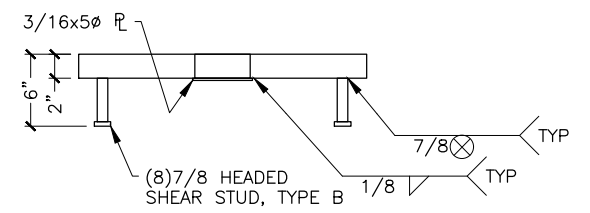
SECTION

2 SHEAR LUG SOCKET

(3) REQUIRED



PLAN



SECTION

1 SHEAR LUG SOCKET

(2) REQUIRED



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

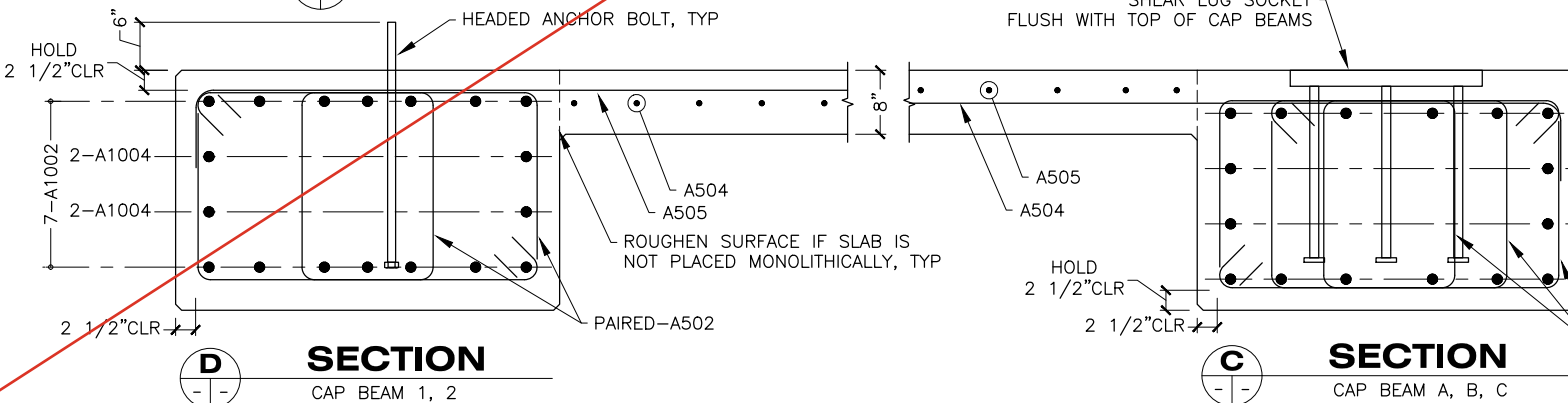
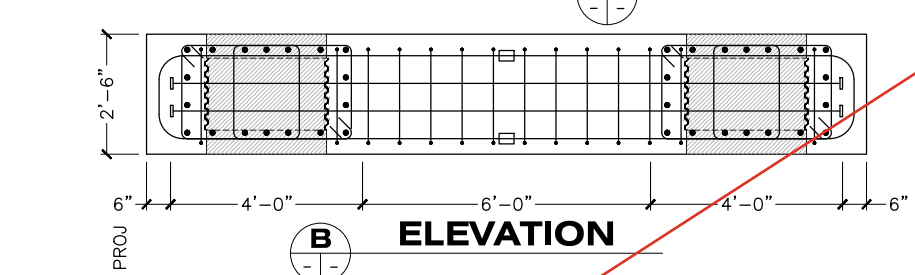
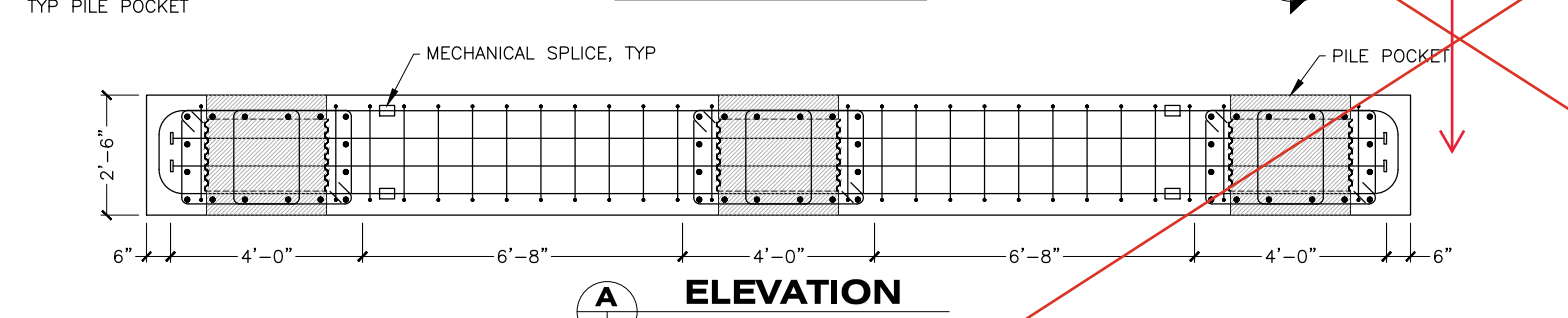
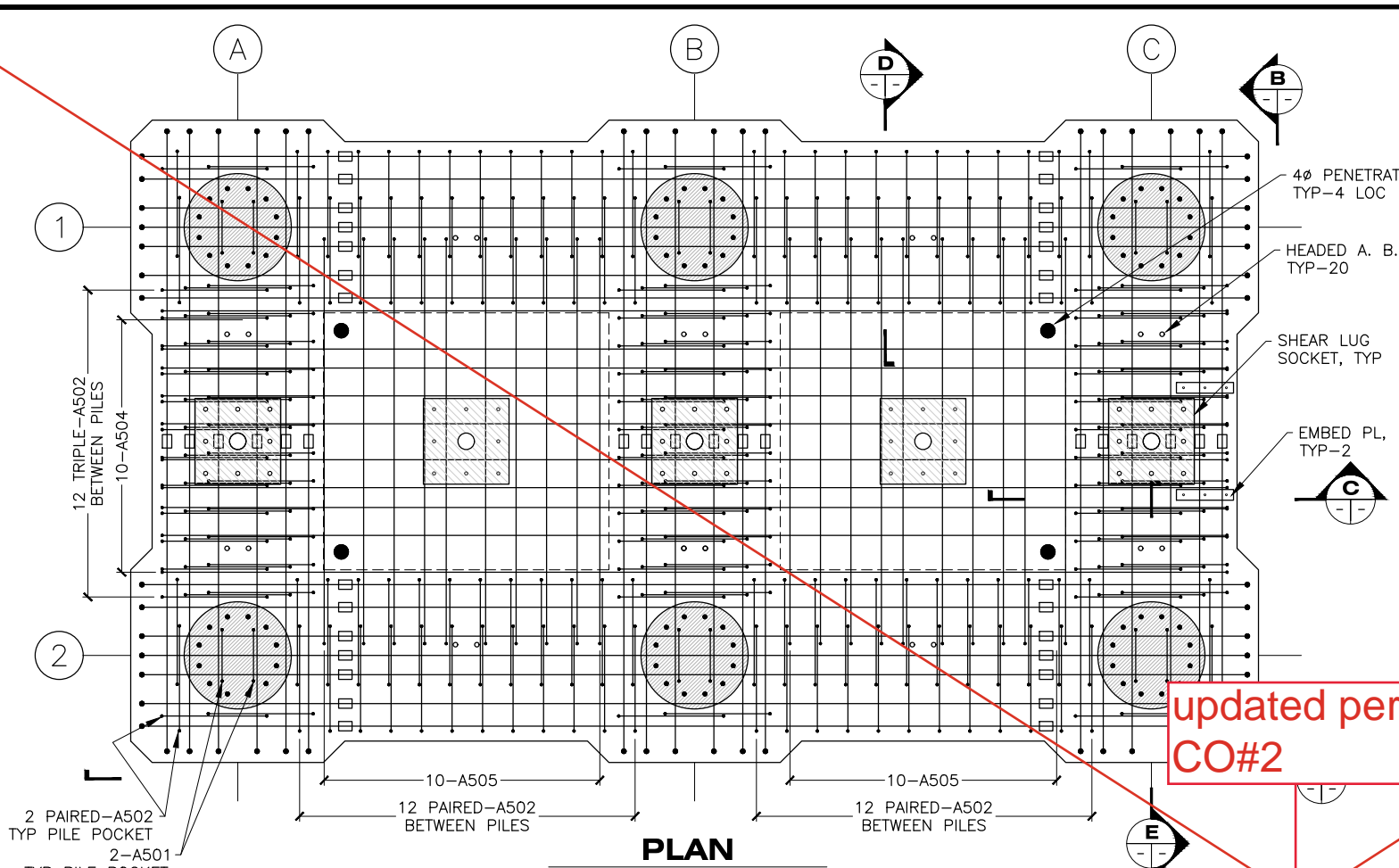
ABUTMENT
PRECAST CAP BEAMS

HH 10/01/2024

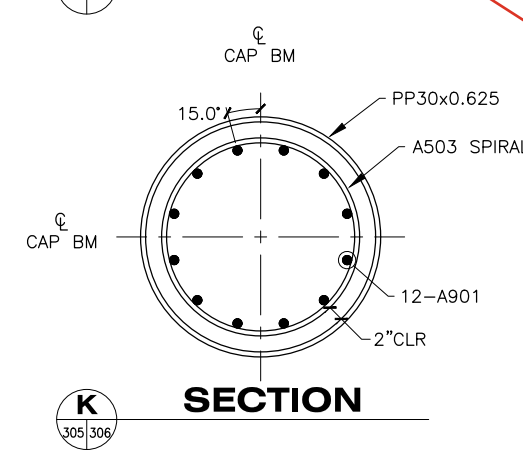
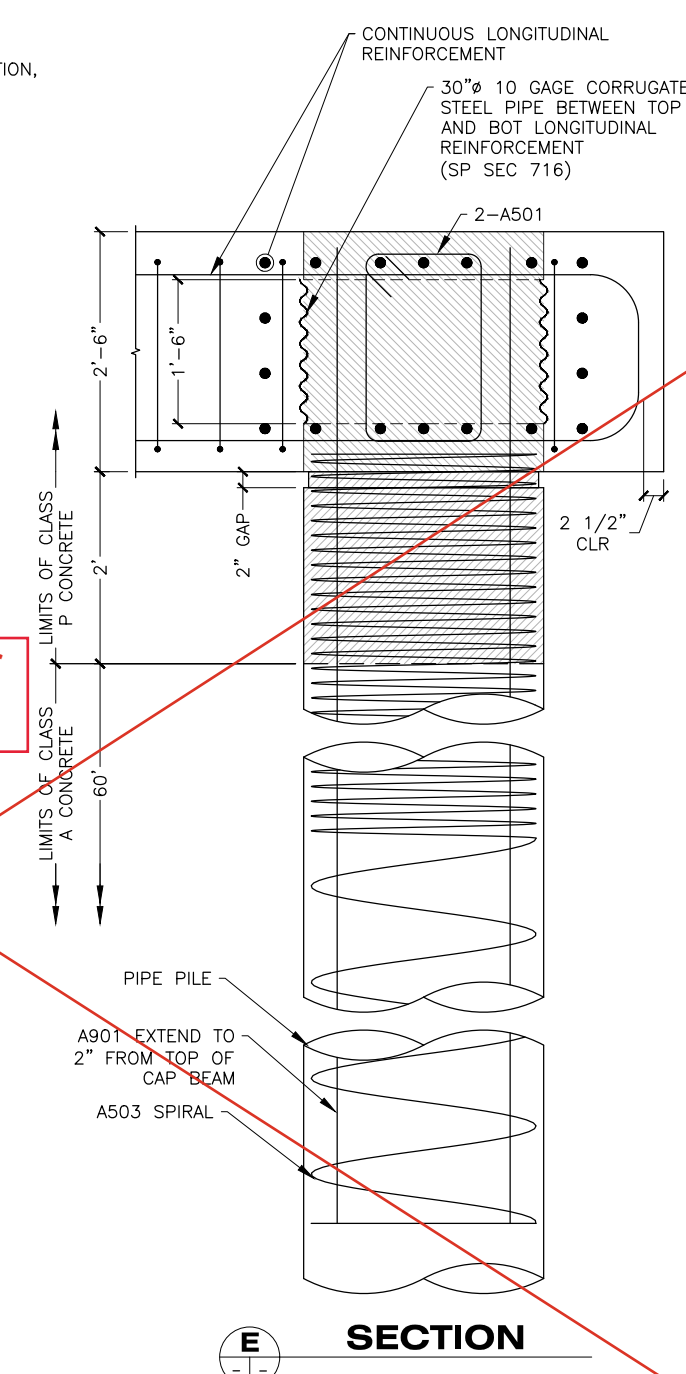
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	306	145

FILE: Q:\us\68128\WF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER.dwg
 DATE: 3/18/2019 14:01 LAYOUT: 306
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



updated per CO#2



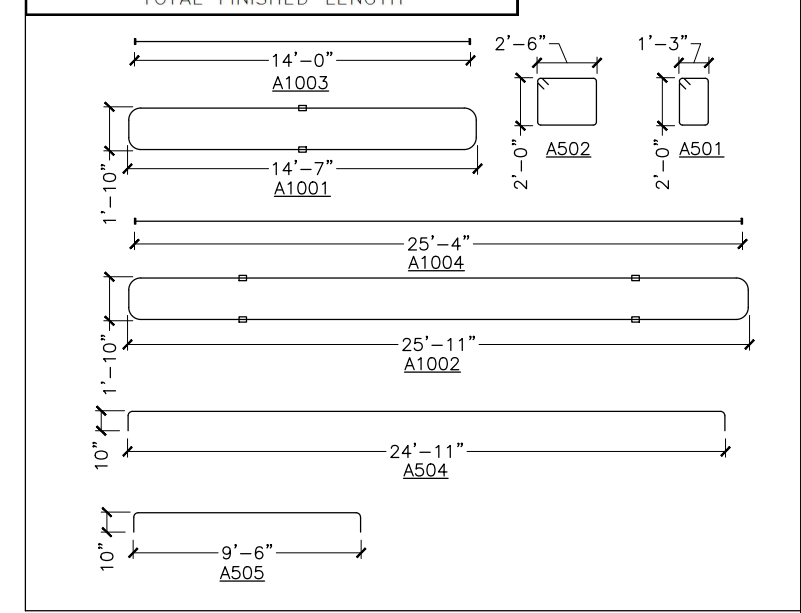
REINFORCING STEEL - ONE ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE
A501	5	12	7'-5"	BENT
A502	5	224	9'-11"	BENT
A503	5	6	382'-1"	SPIRAL
A504	5	10	26'-7"	BENT
A505	5	20	11'-2"	BENT
A901	9	72	40'-0"	
A1001	10	18	31'-11"	BENT *
A1002	10	14	54'-7"	BENT *
A1003	10	12	14'-0"	HEADED
A1004	10	8	25'-4"	HEADED

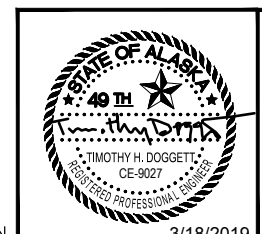
*-JOINED WITH MECHANICAL SPLICES

BENDING DIAGRAM

TOTAL FINISHED LENGTH



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

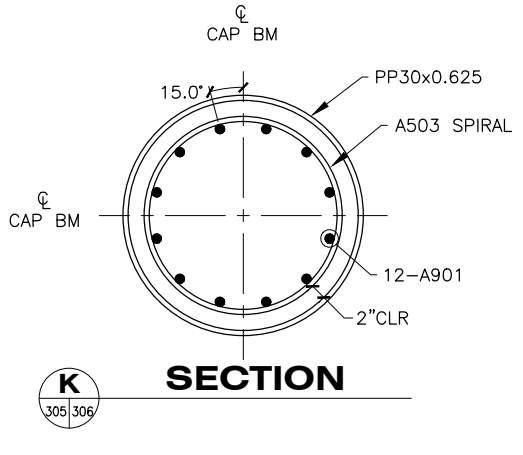
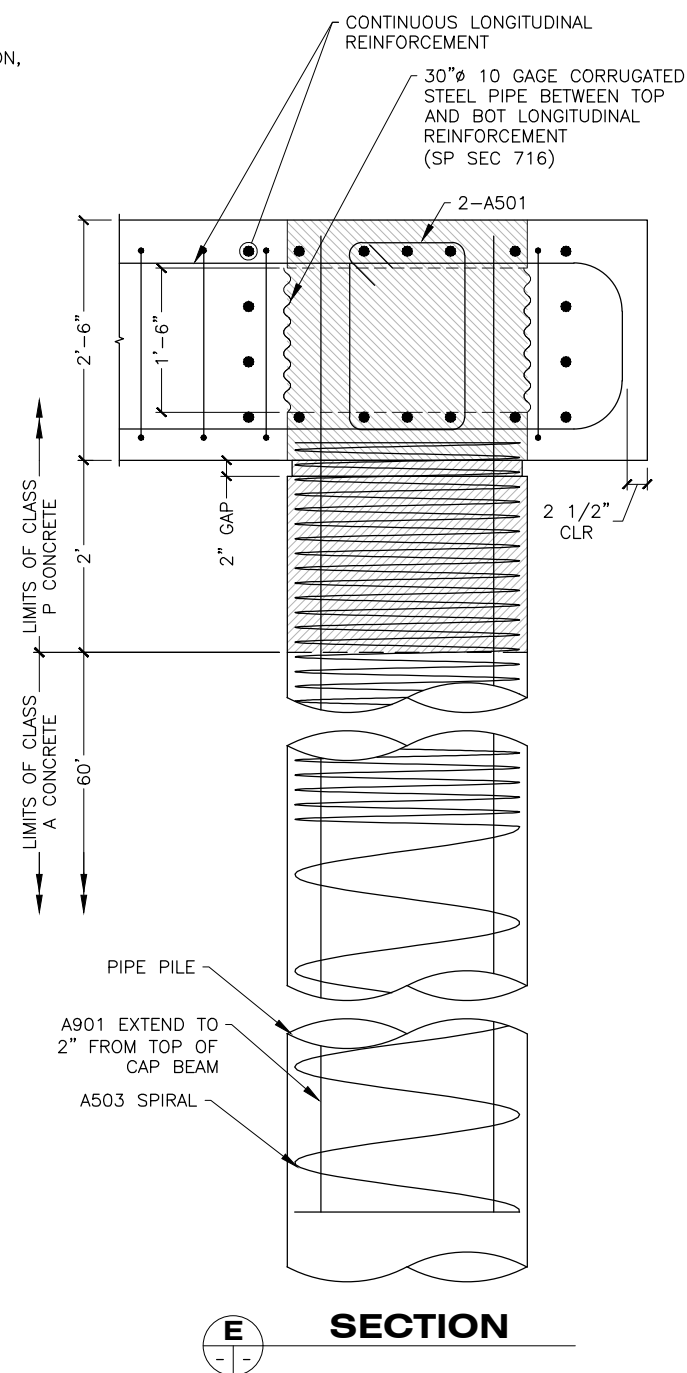
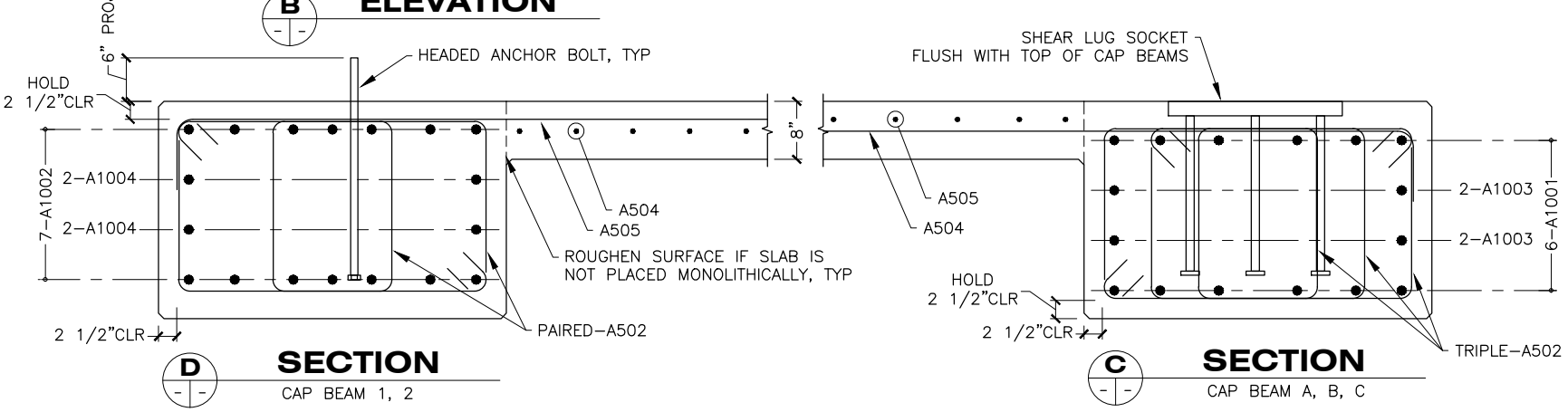
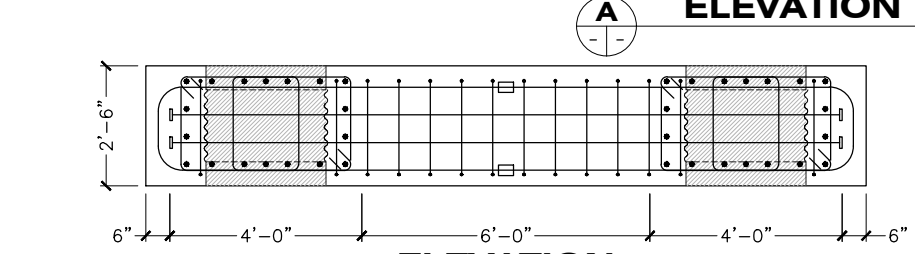
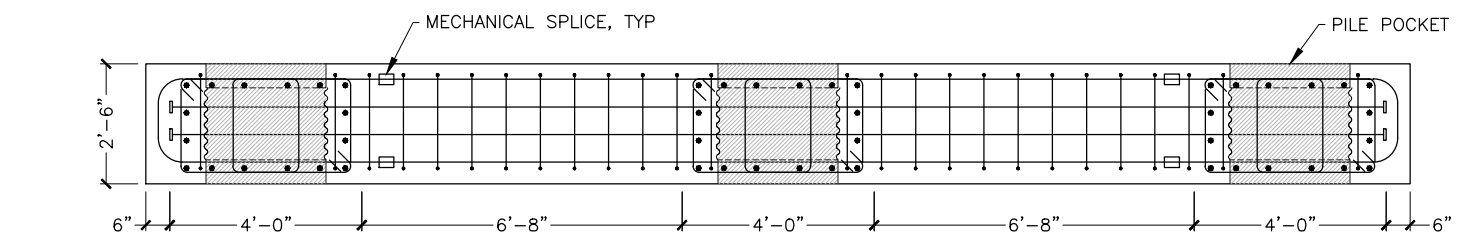
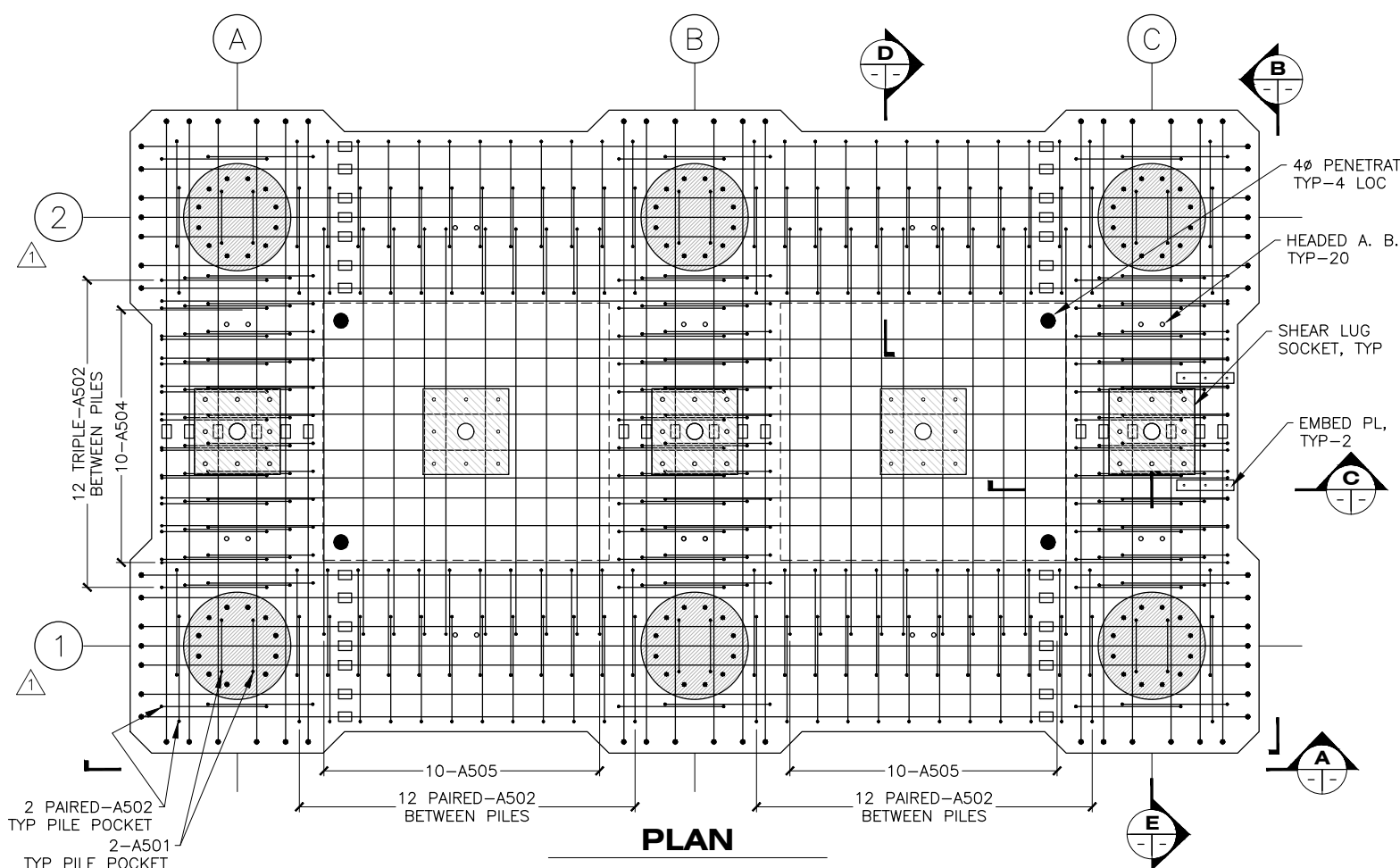
ABUTMENT PRECAST CAP BEAMS

HH 10/01/2024

3/18/2019

FILE Q:\ous\68128\VF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER_R2.dwg
 DATE 3/12/2020 14:48 LAYOUT 306
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/26/19	GRID DESIGNATION	ALASKA	Z681280000/0003182	2019	306	145



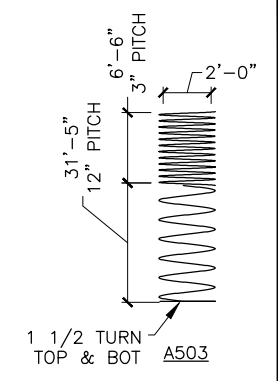
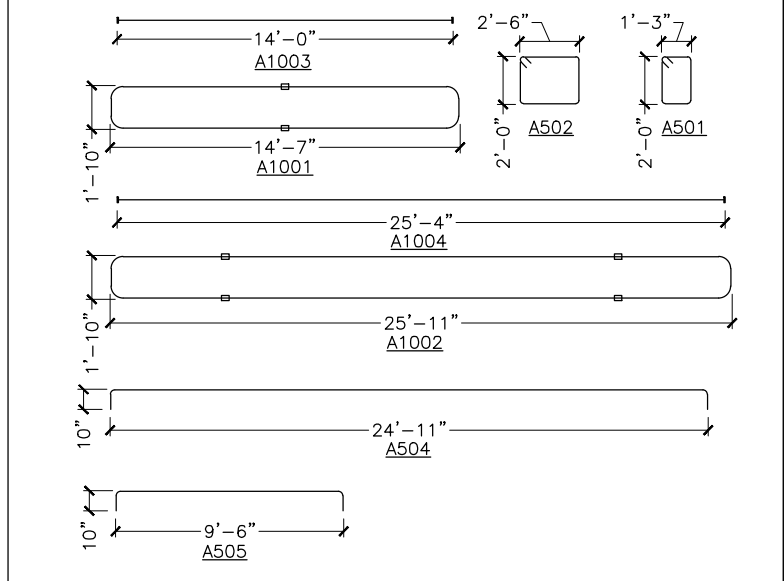
REINFORCING STEEL - ONE ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE
A501	5	12	7'-5"	BENT
A502	5	224	9'-11"	BENT
A503	5	6	382'-1"	SPIRAL
A504	5	10	26'-7"	BENT
A505	5	20	11'-2"	BENT
A901	9	72	40'-0"	
A1001	10	18	31'-11"	BENT *
A1002	10	14	54'-7"	BENT *
A1003	10	12	14'-0"	HEADED
A1004	10	8	25'-4"	HEADED

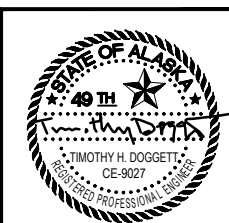
*-JOINED WITH MECHANICAL SPLICES

BENDING DIAGRAM

TOTAL FINISHED LENGTH



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
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 (907) 465-1763

**GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS**

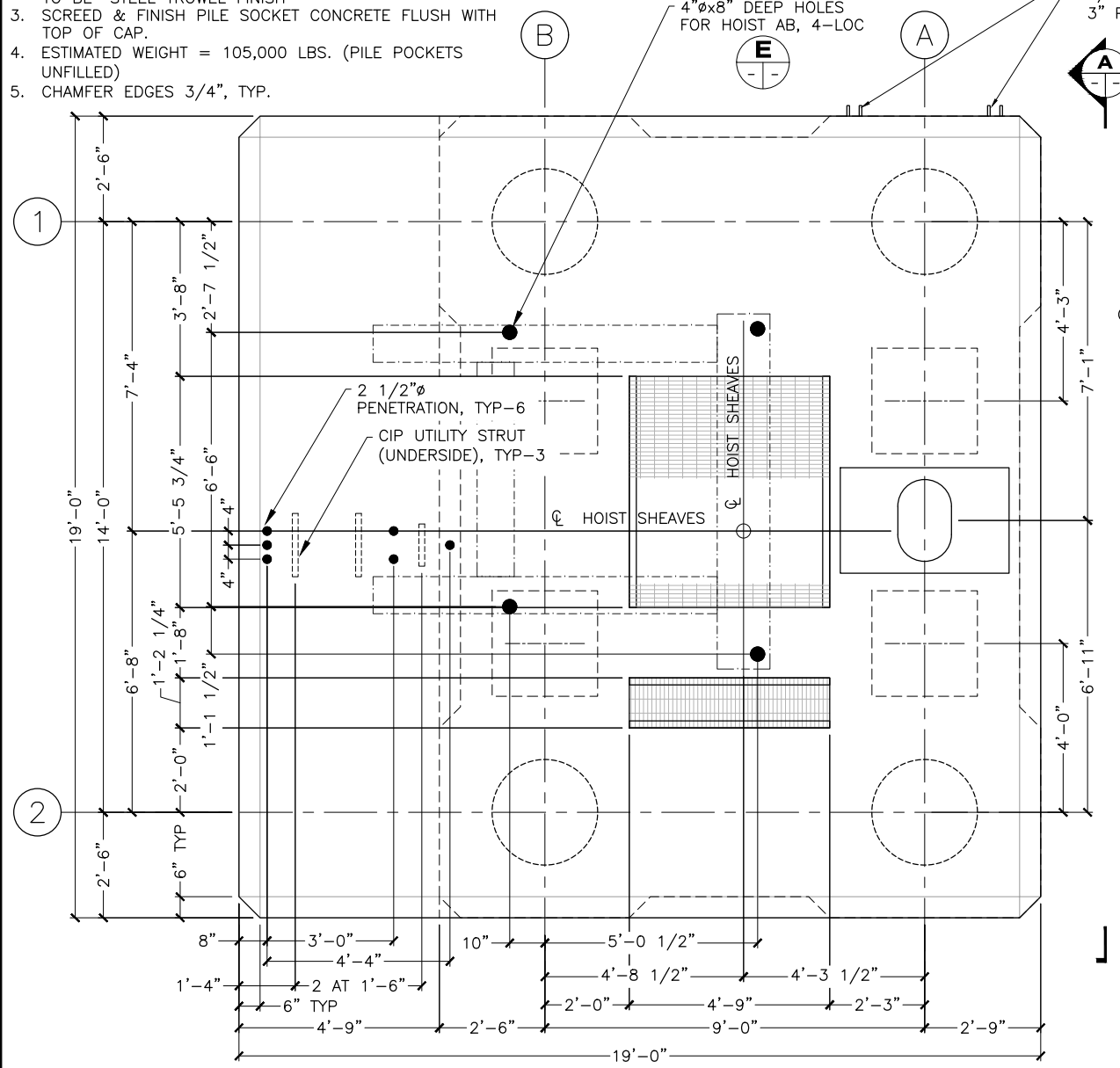
**ABUTMENT
 PRECAST CAP BEAMS**

HH 10/01/2024

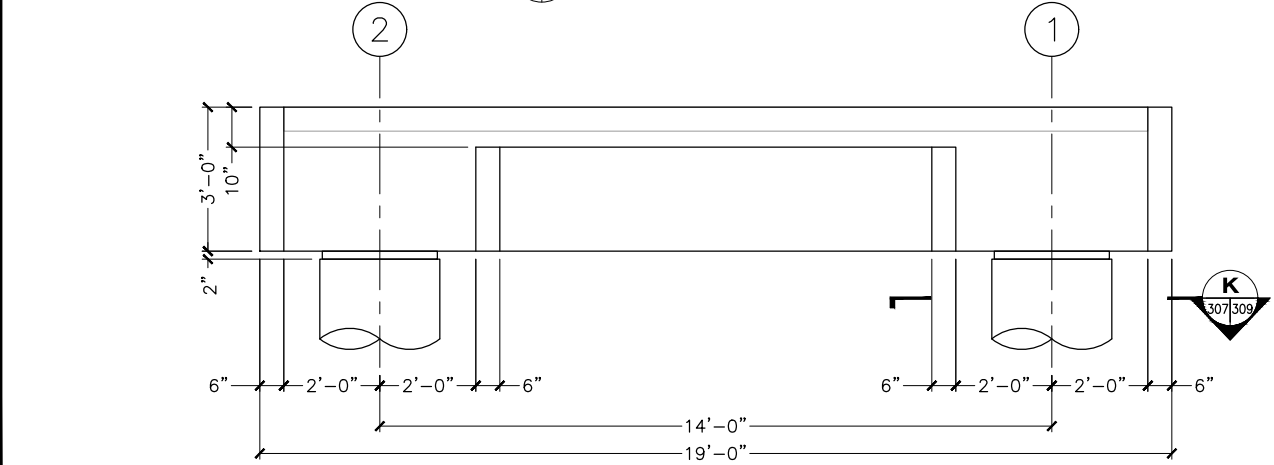
FILE: G:\us\68128\WF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER.dwg DATE: 3/18/2019 14:01 LAYOUT: 307 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

- NOTE:
- EMBEDDED PLATES FLUSH WITH TOP OR BOTTOM OF CAP BEAMS.
 - FORMED SURFACES TO BE "PLAIN FINISH". TOP SURFACE TO BE "STEEL TROWEL FINISH"
 - SCREED & FINISH PILE SOCKET CONCRETE FLUSH WITH TOP OF CAP.
 - ESTIMATED WEIGHT = 105,000 LBS. (PILE POCKETS UNFILLED)
 - CHAMFER EDGES 3/4", TYP.

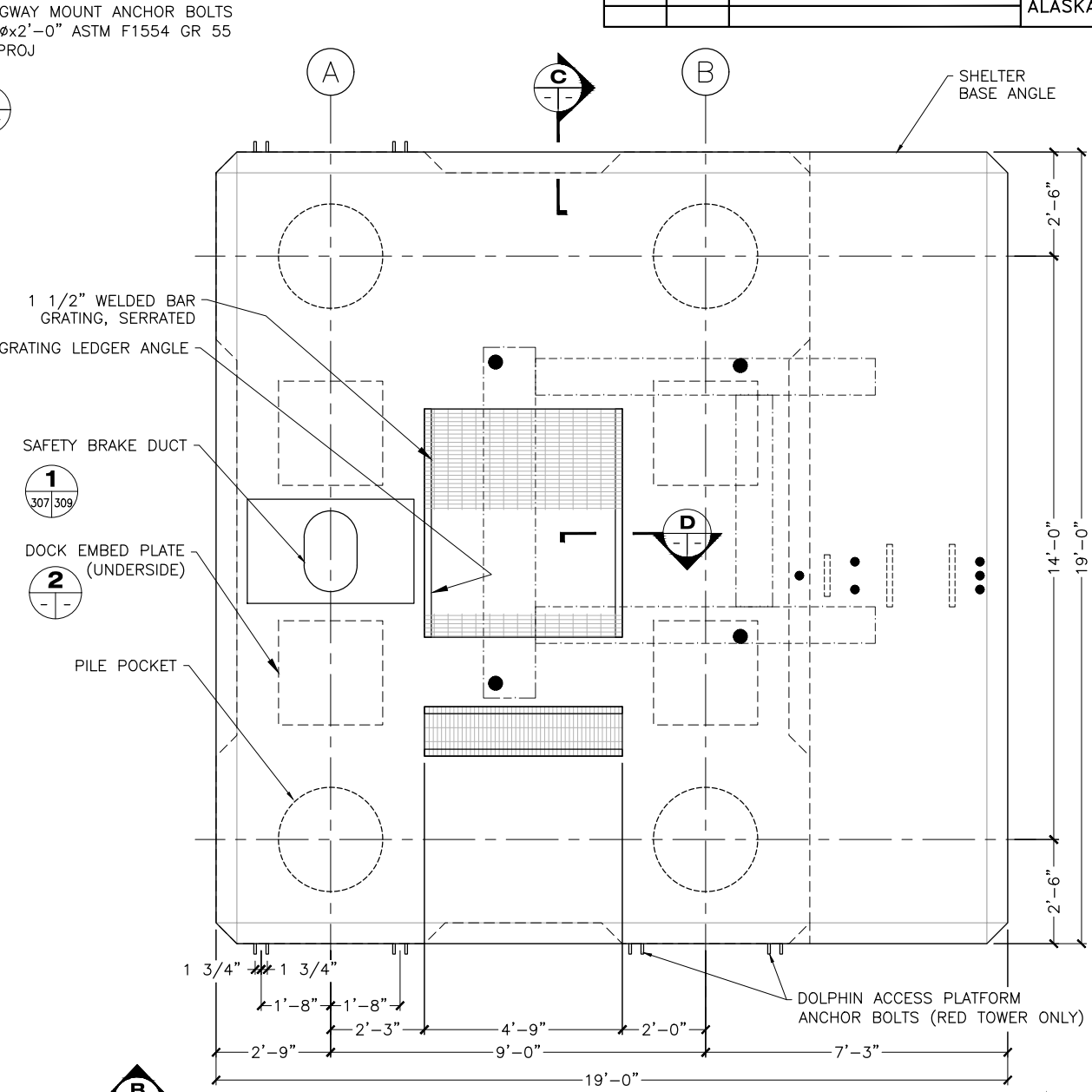
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	307	145



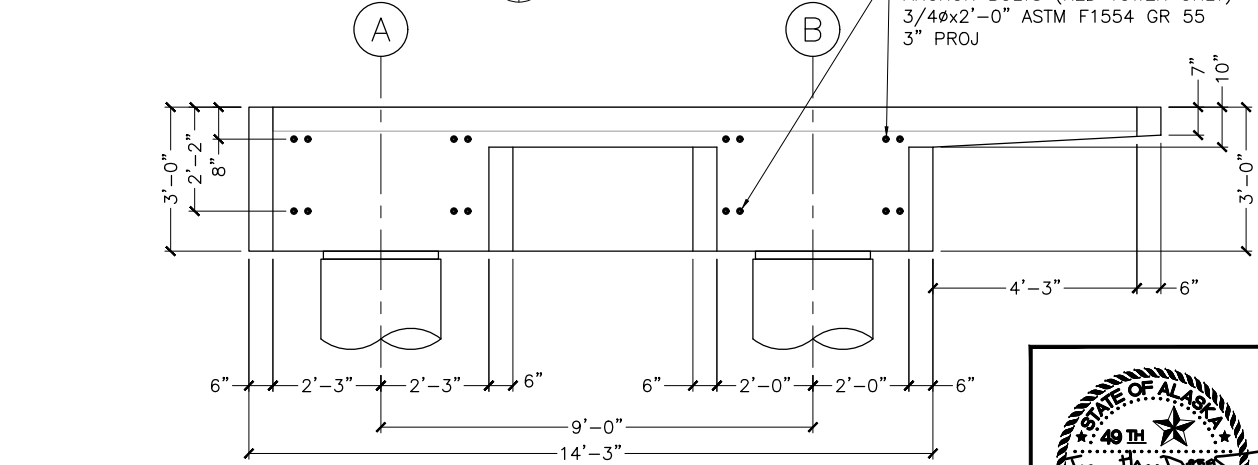
3 PLAN GREEN TOWER
301/307



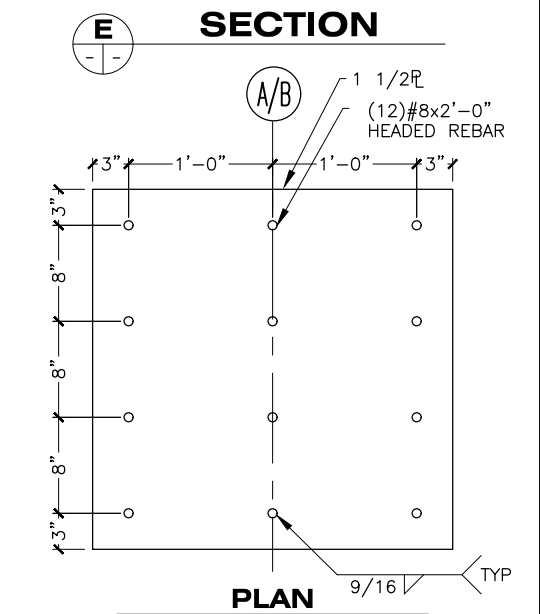
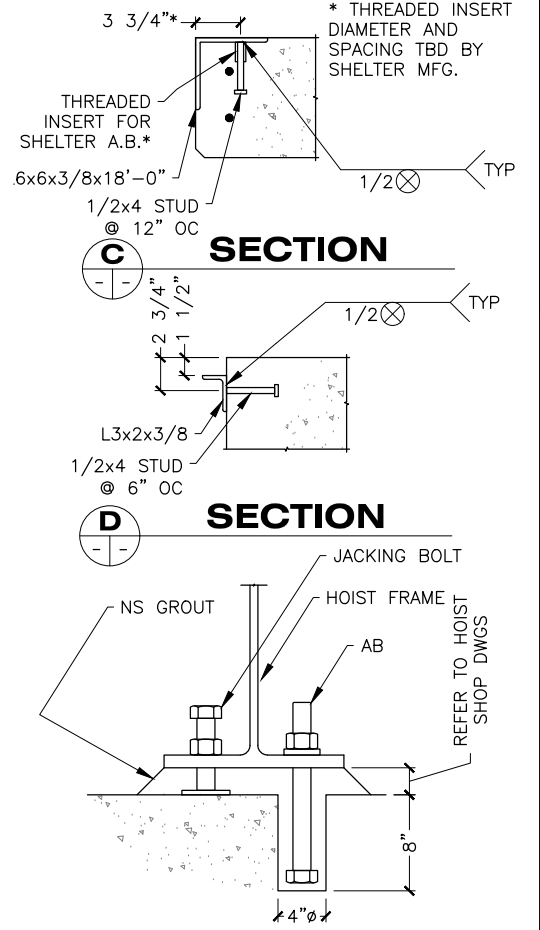
A ELEVATION



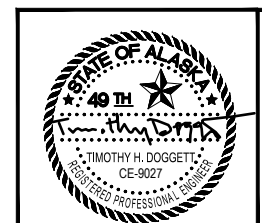
4 PLAN RED TOWER
301/307



B ELEVATION



2 DOCK EMBED PLATE
301/307



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

LIFT TOWER PRECAST CAP BEAMS

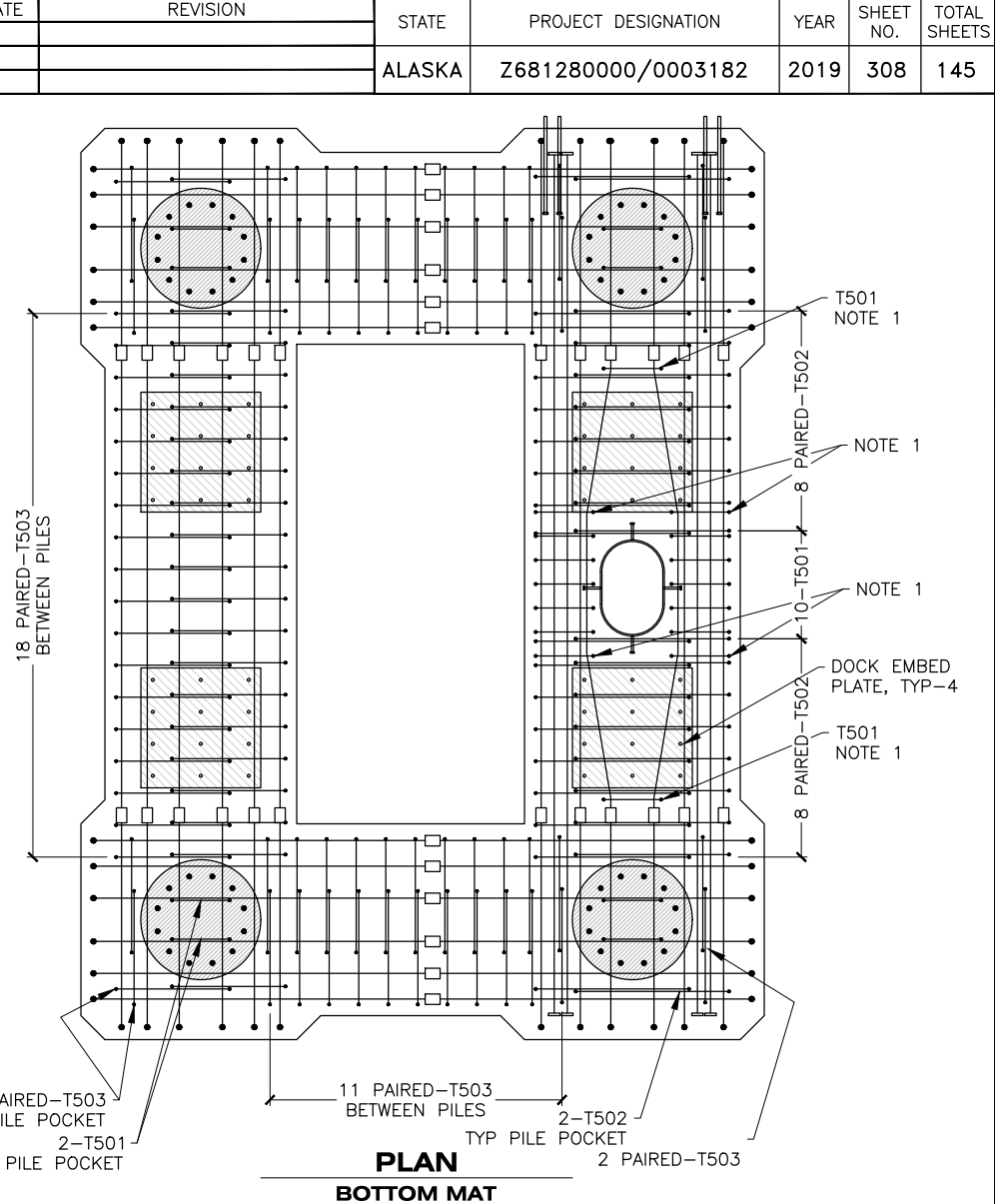
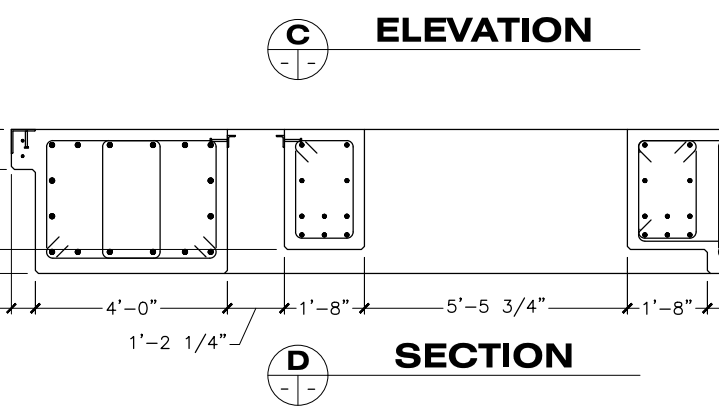
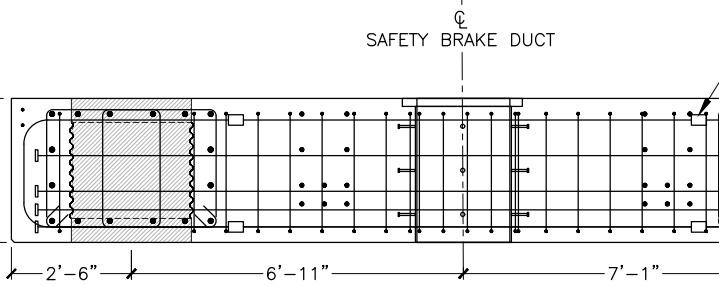
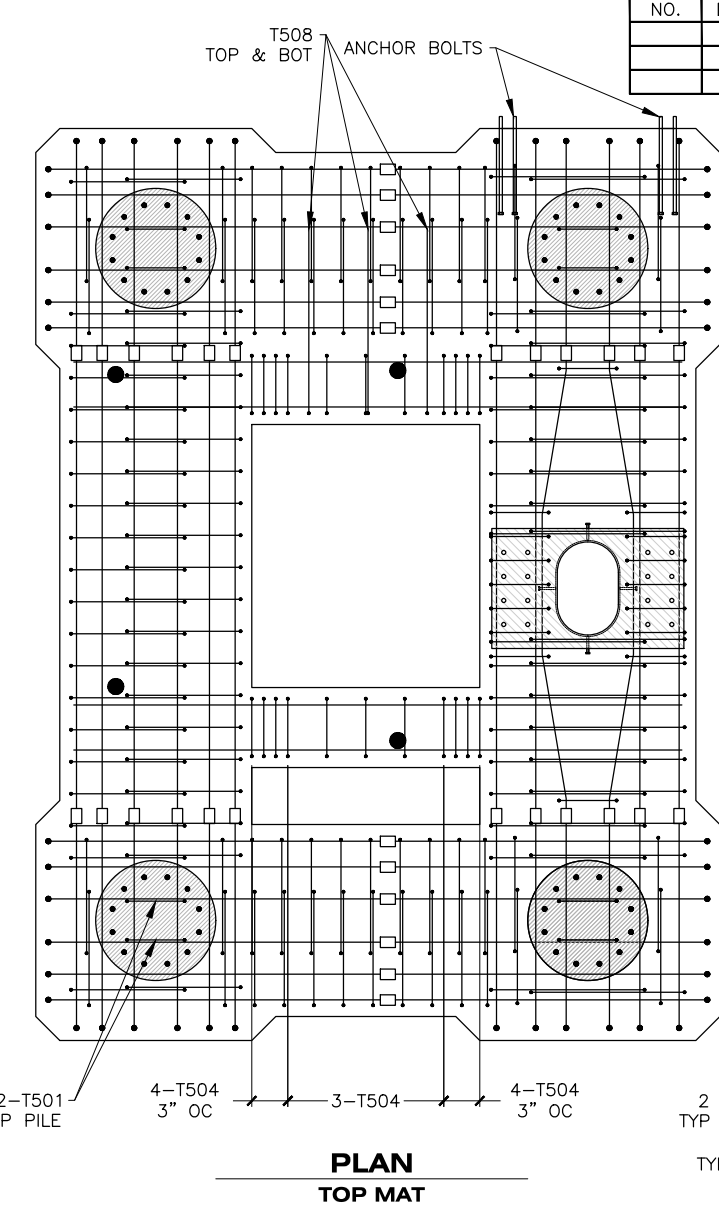
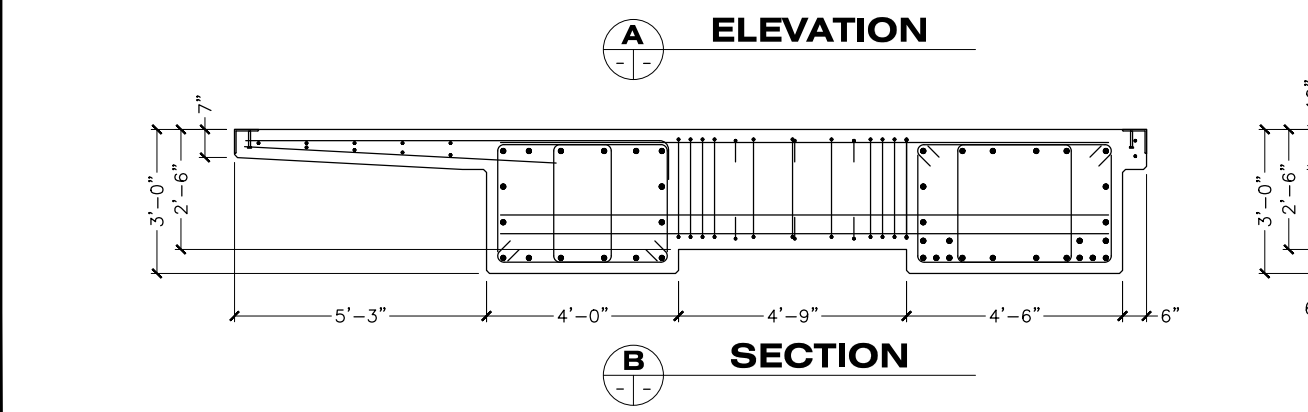
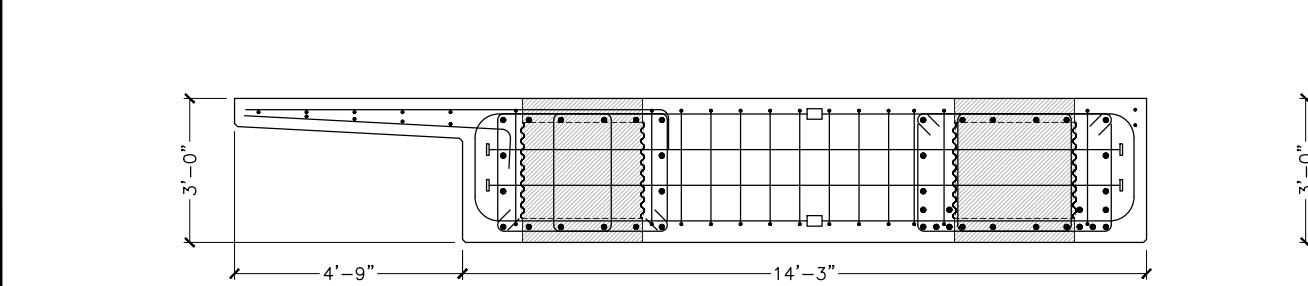
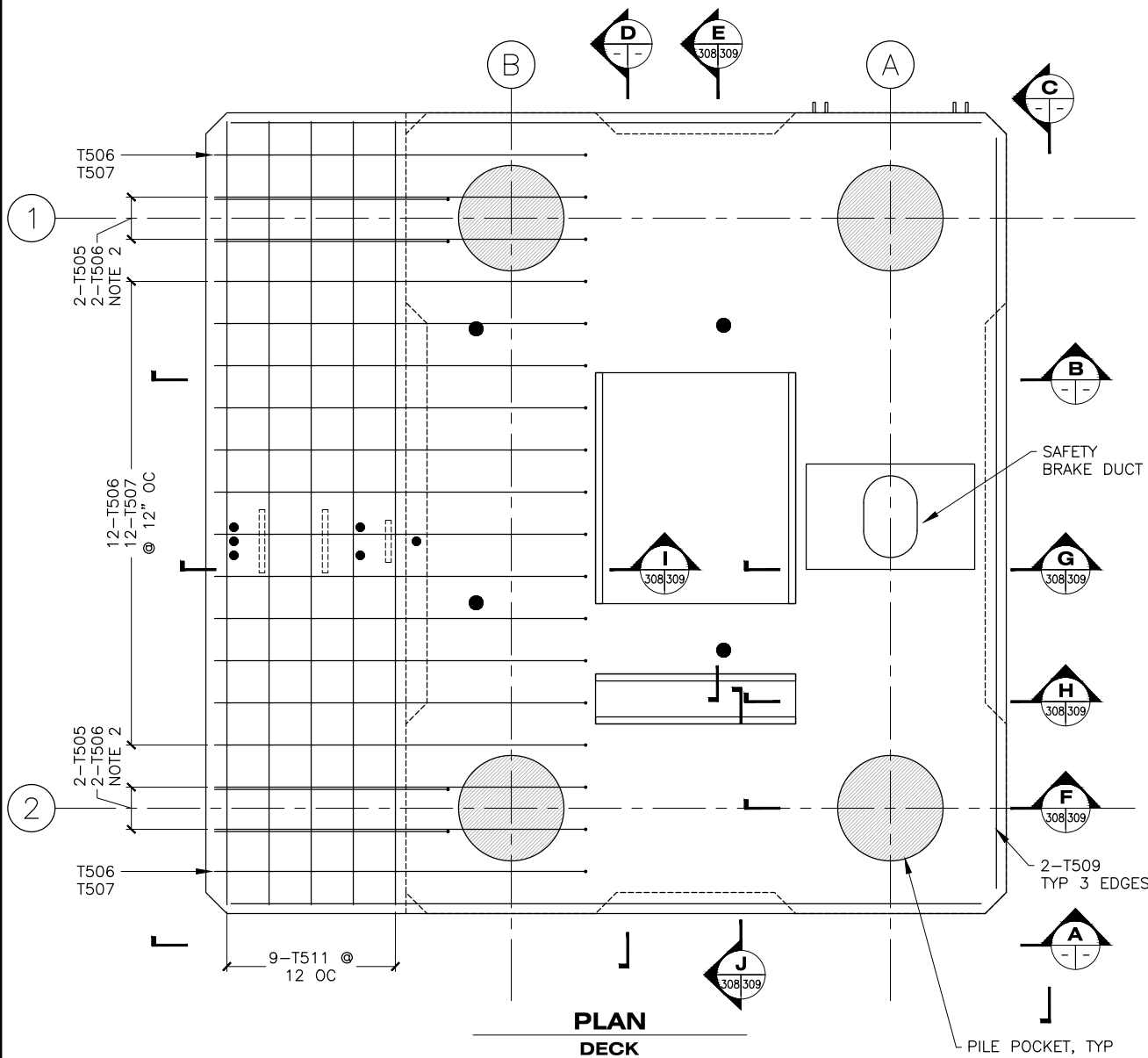
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

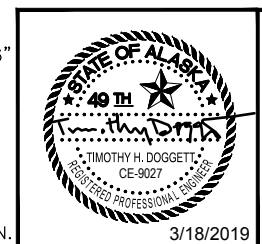
HH 10/01/2024

FILE: G:\us\68128\WF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER.dwg DATE: 3/18/2019 14:01 LAYOUT: 308 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	308	145



- GENERAL NOTES:
1. LOCATE T501 AT EACH BEND OF LONGITUDINAL REINFORCEMENT T1003.
 2. GREEN TOWER REINFORCEMENT SHOWN. RED TOWER IS OPPOSITE HAND WITH ADDITION OF ANCHOR BOLTS FOR DOLPHIN ACCESS PLATFORM.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

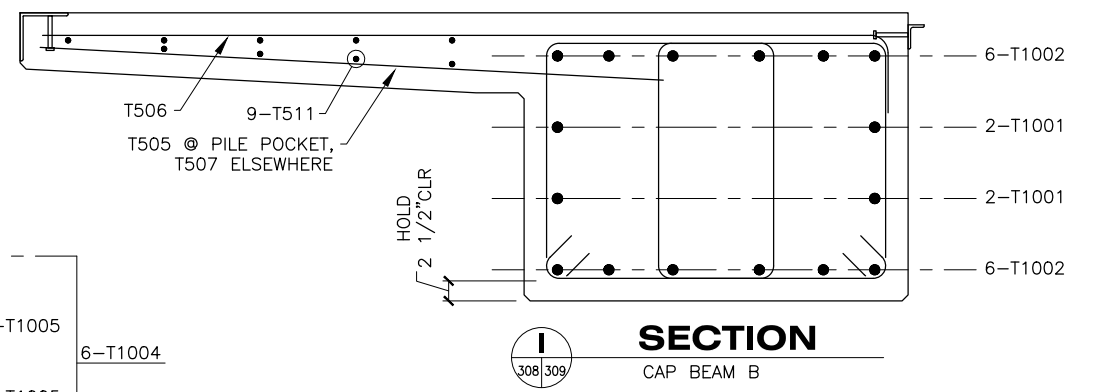
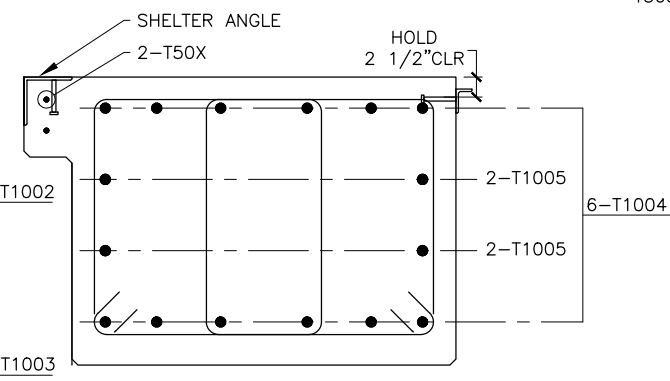
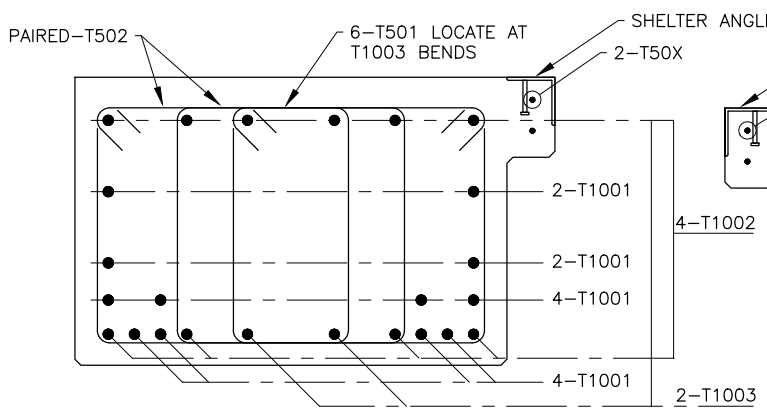
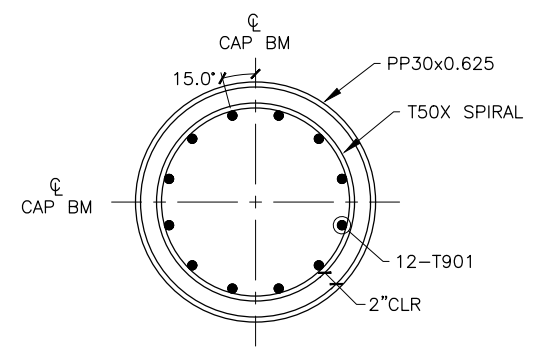
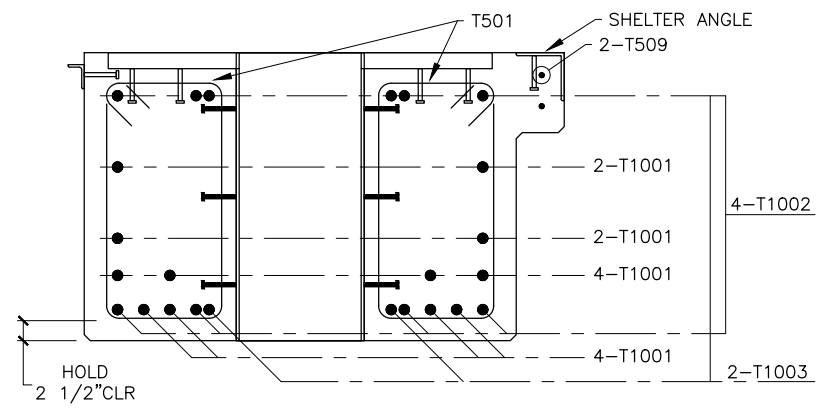
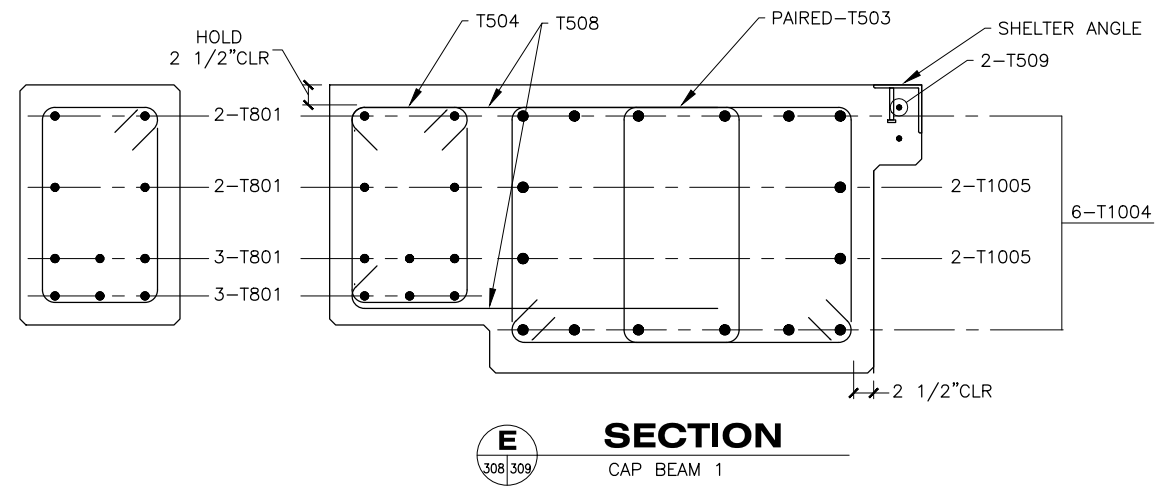
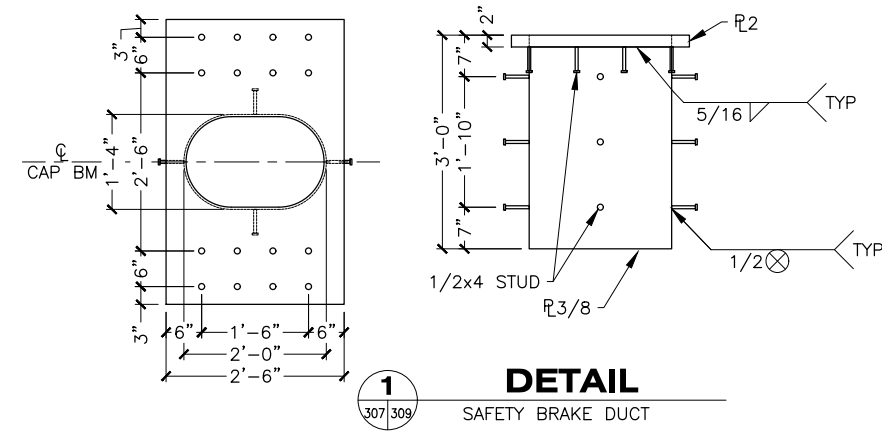
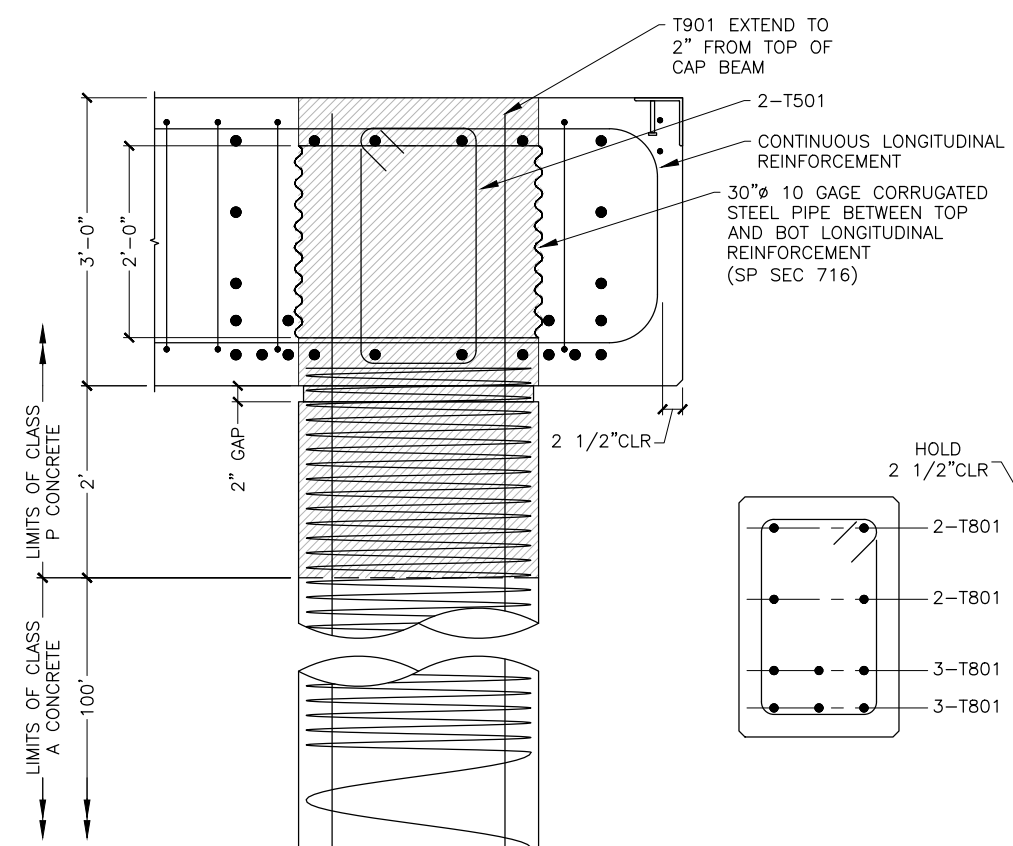
LIFT TOWER PRECAST CAP BEAMS

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

FILE: G:\us\68128\WF\PLANSET\303-309 - TRANSFER BRIDGE ABUTMENT & TOWER.dwg DATE: 3/18/2019 14:01 LAYOUT: 309 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

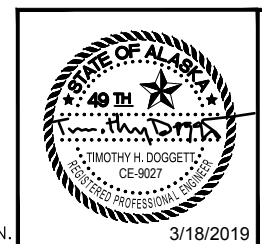
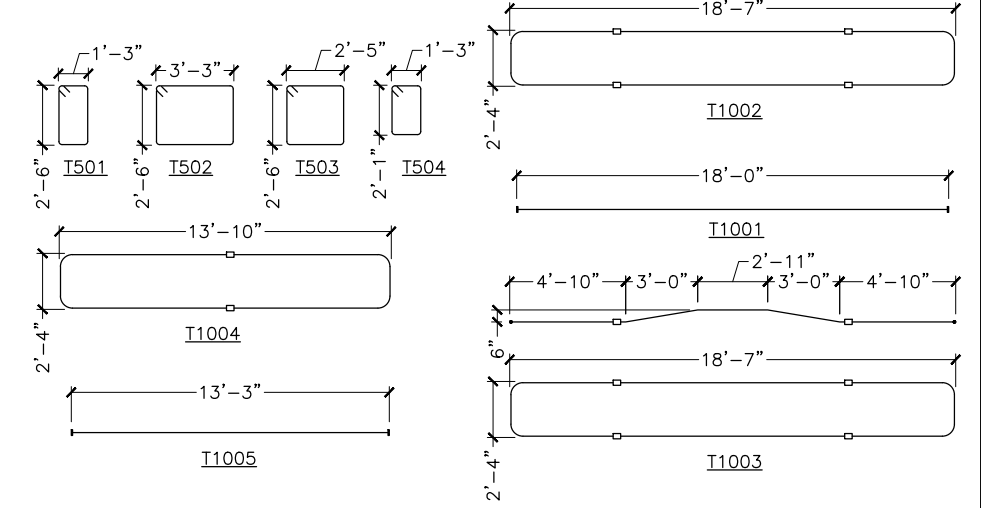
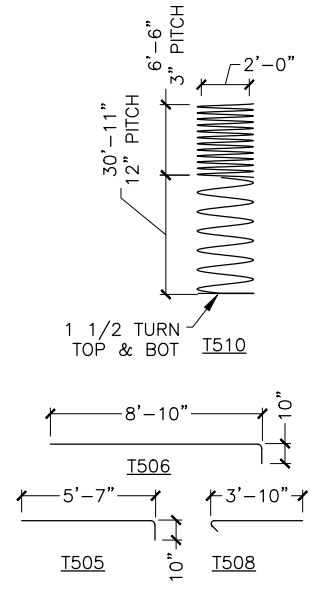
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	309	145



REINFORCING STEEL - ONE TOWER

MARK	SIZE	NO.	LENGTH	TYPE
T501	5	24	8'-5"	BENT
T502	5	36	12'-5"	BENT
T503	5	92	10'-9"	BENT
T504	5	22	7'-7"	BENT
T505	5	4	6'-5"	BENT
T506	5	18	9'-8"	BENT
T507	5	14	6'-6"	
T508	5	6	4'-4"	BENT
T509	5	6	17'-9"	
T510	5	4	378'-11"	SPIRAL
T511	5	9	18'-7"	
T801	8	20	12'-8"	
T901	9	48	40'-0"	
T1001	10	16	18'-0"	HEADED
T1002	10	10	40'-11"	BENT *
T1003	10	2	41'-1"	BENT *
T1004	10	12	31'-5"	BENT *
T1005	10	8	13'-3"	HEADED

*-JOINED WITH MECHANICAL SPLICES
BENDING DIAGRAM
TOTAL FINISHED LENGTH



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

LIFT TOWER PRECAST CAP BEAMS

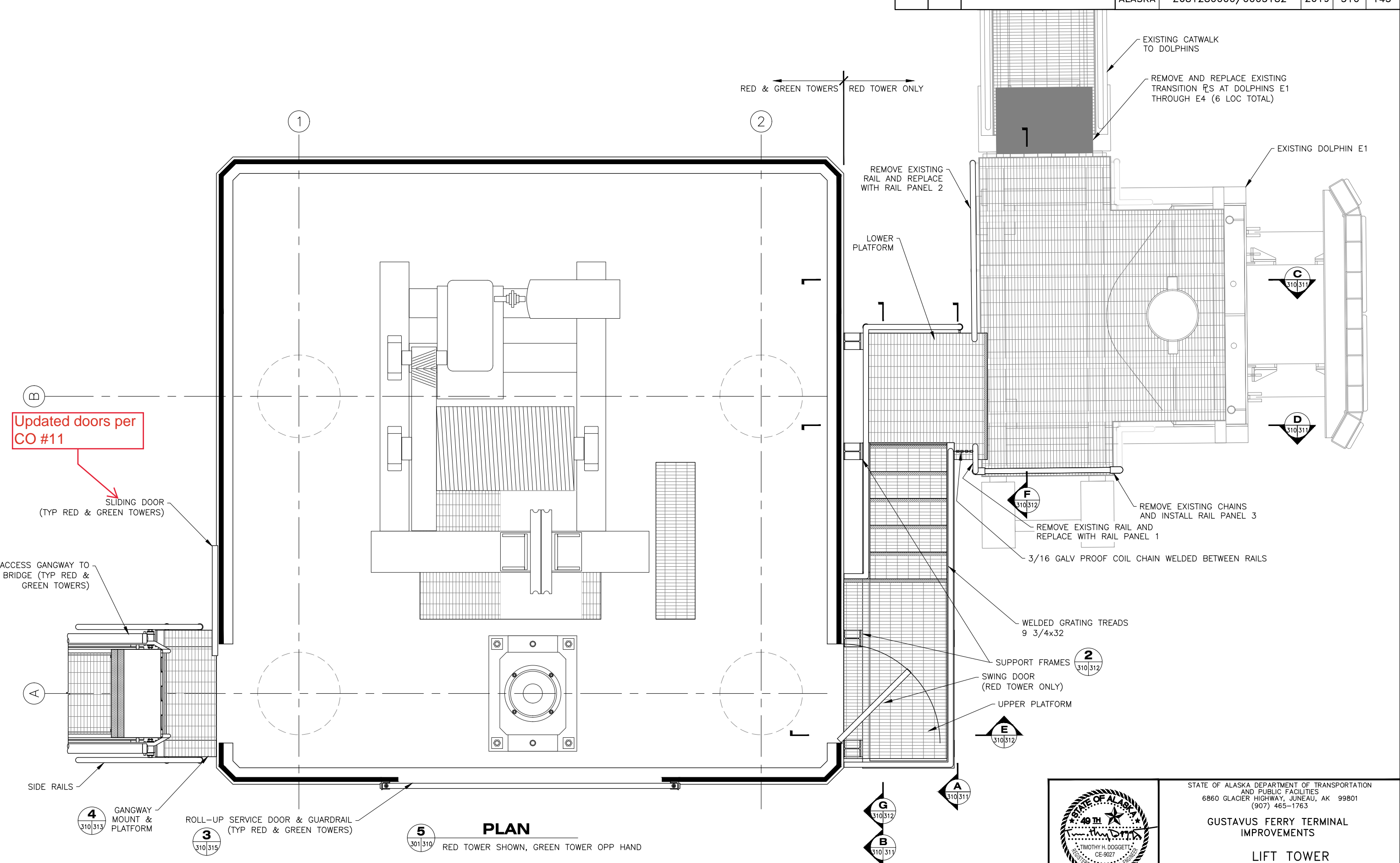
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	310	145

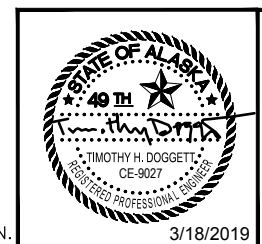
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 DATE 3/18/2019 14:01 LAYOUT 310
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



PLAN

5
301/310 RED TOWER SHOWN, GREEN TOWER OPP HAND

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

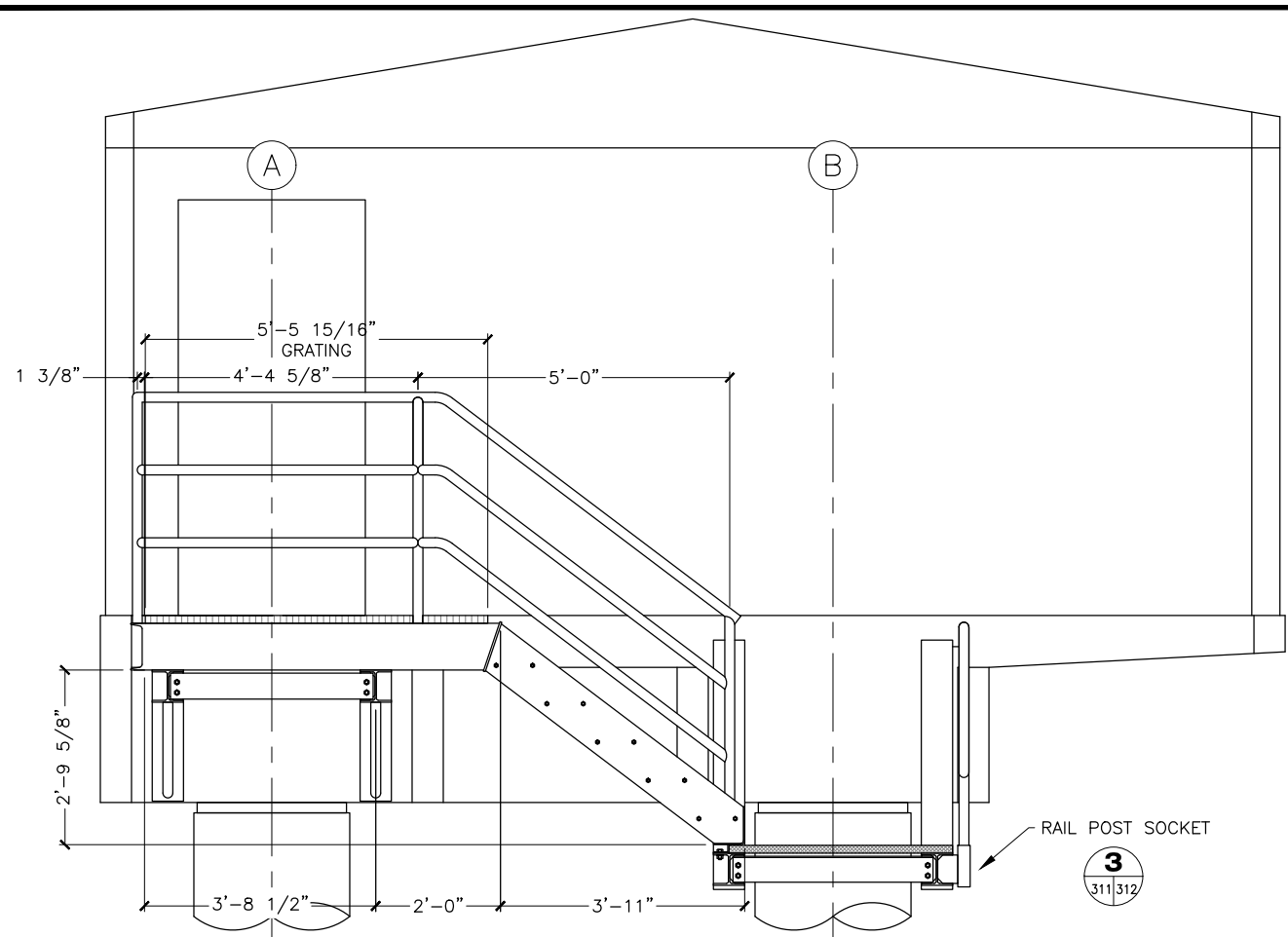
LIFT TOWER LANDINGS & STAIRWAY

HH 10/01/2024

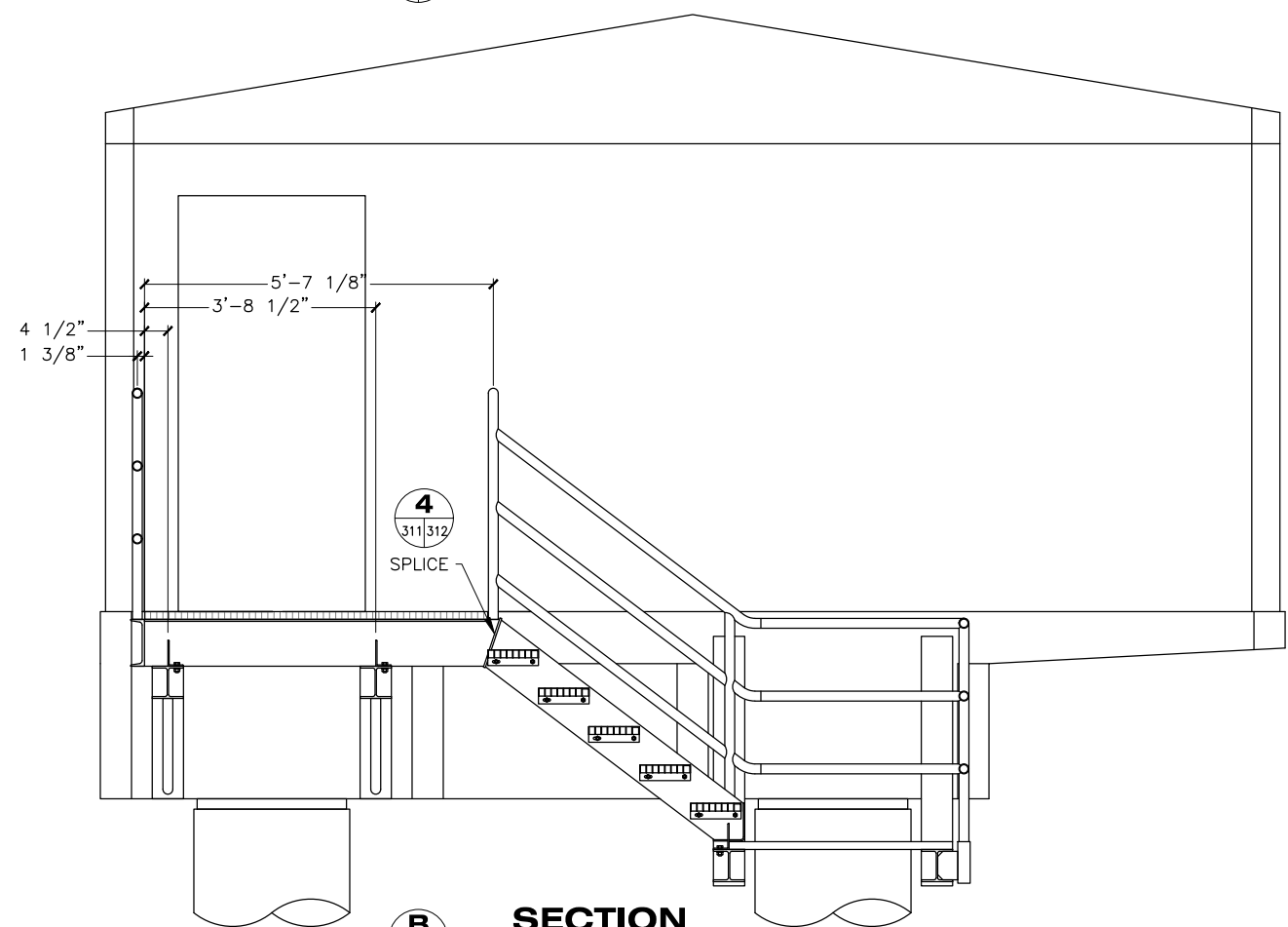
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	311	145

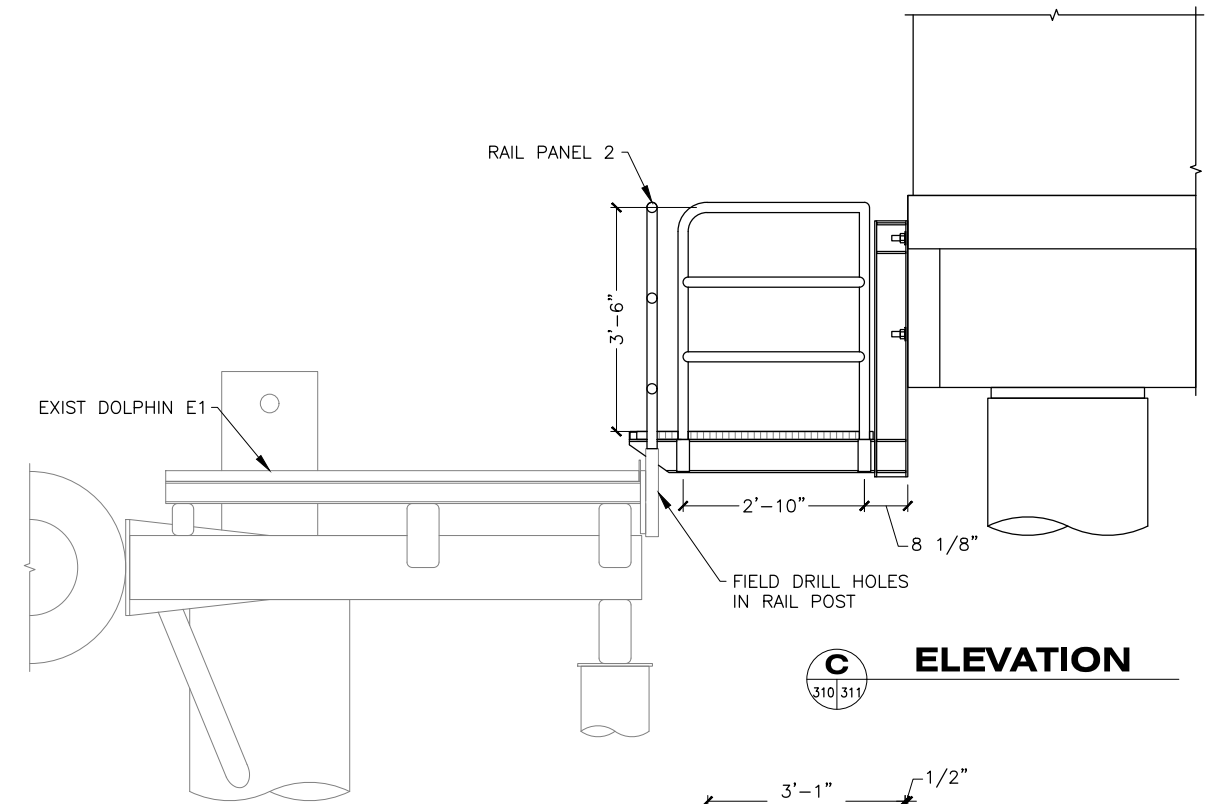
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 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



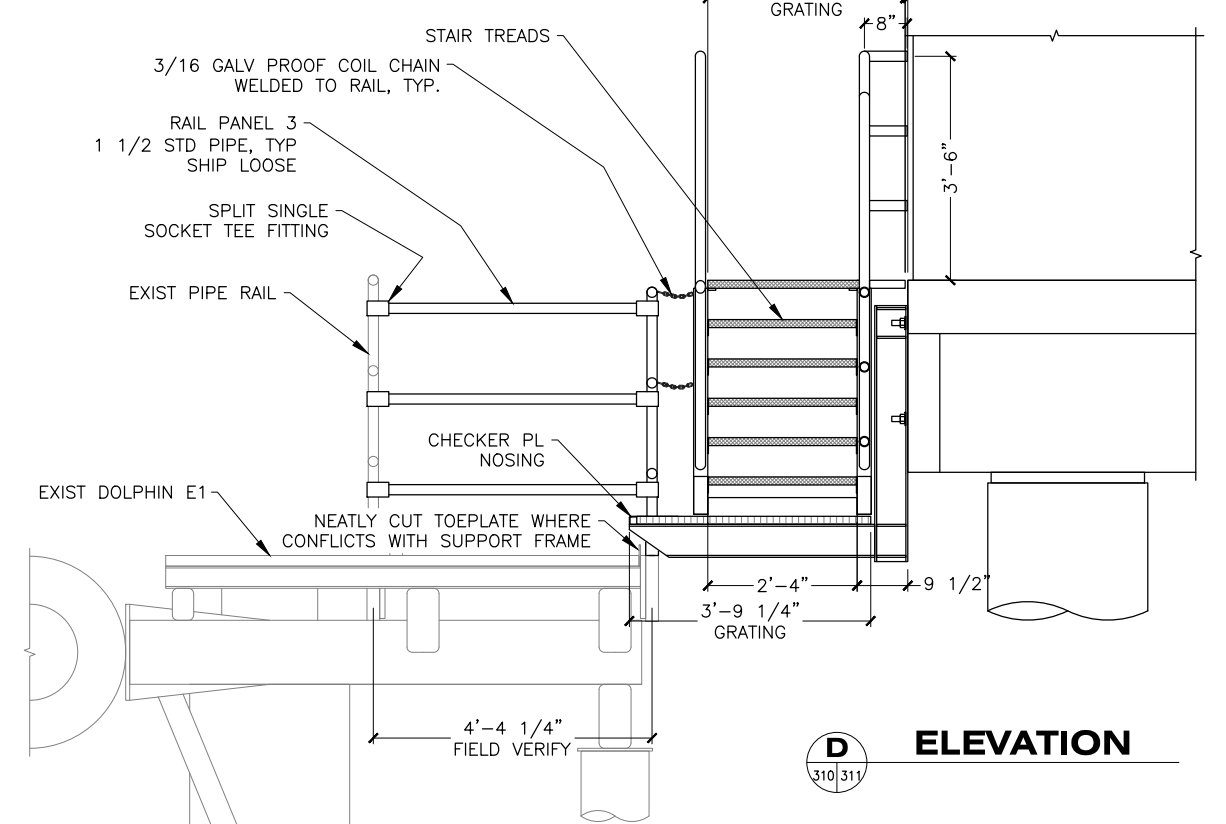
A ELEVATION
310 311



B SECTION
310 311

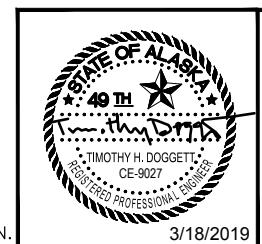


C ELEVATION
310 311



D ELEVATION
310 311

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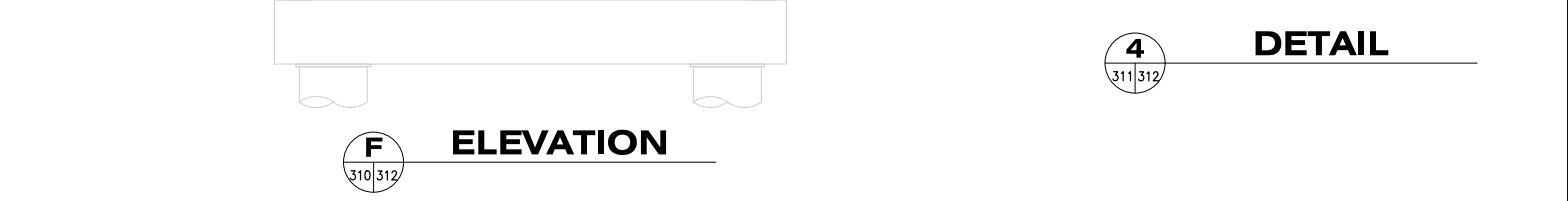
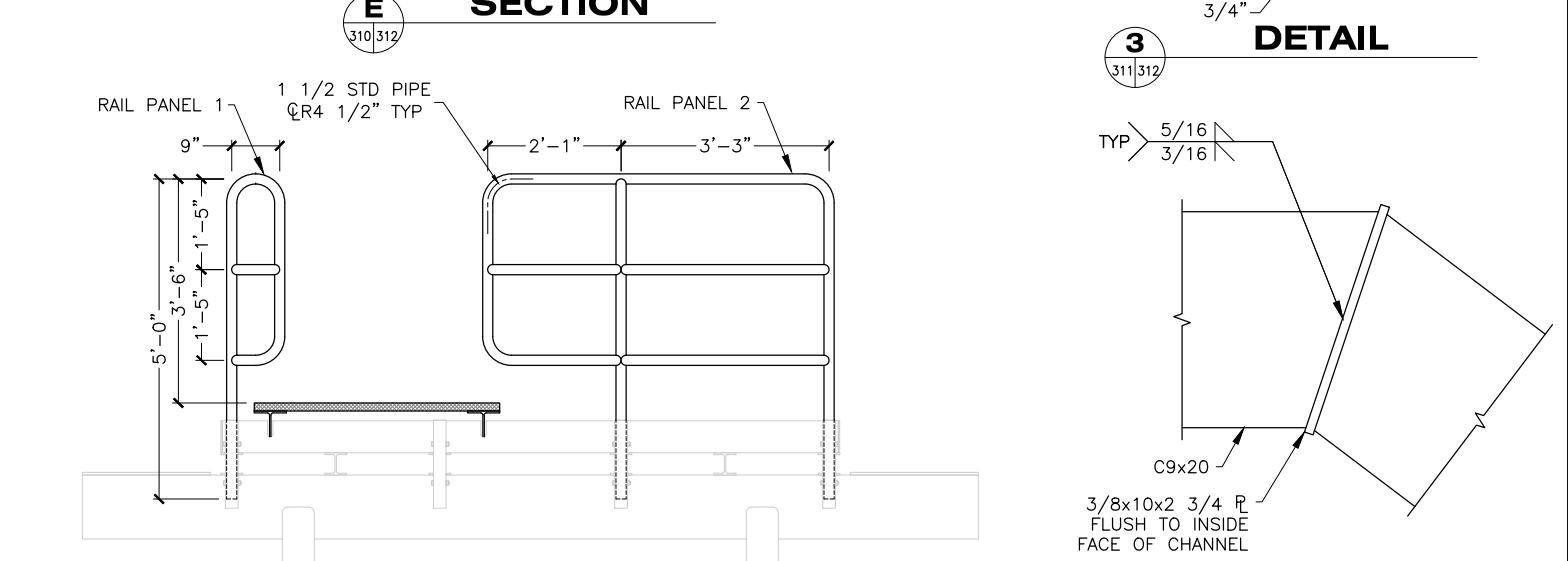
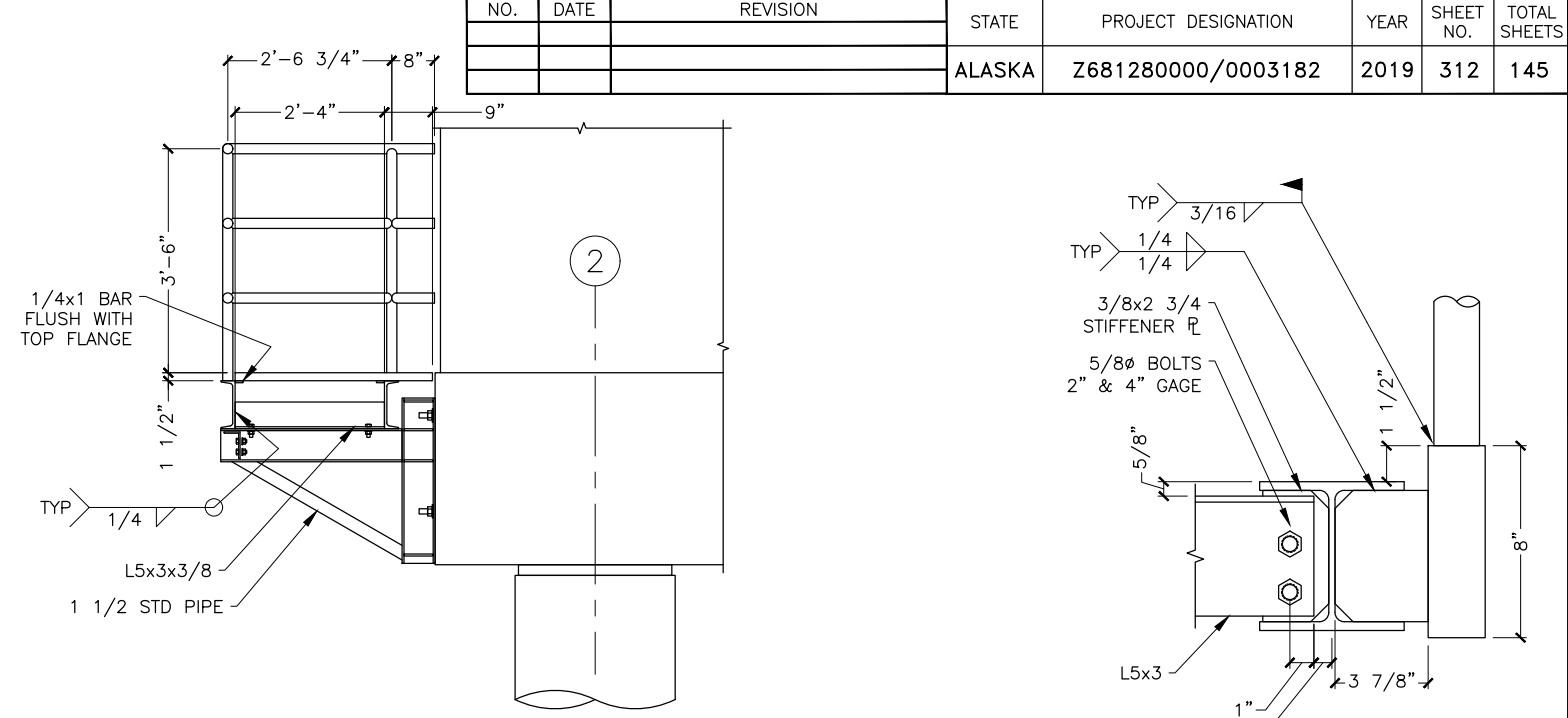
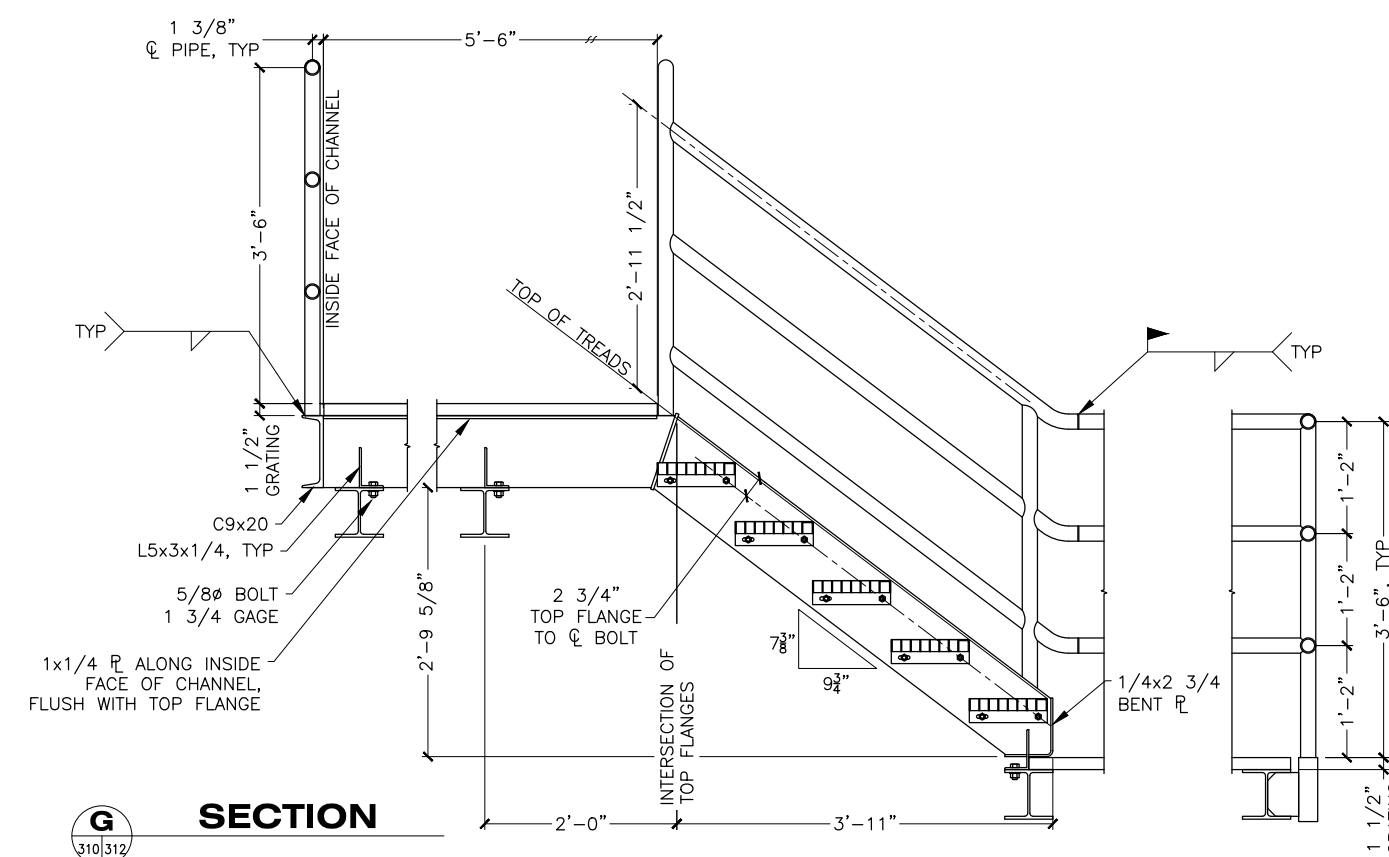
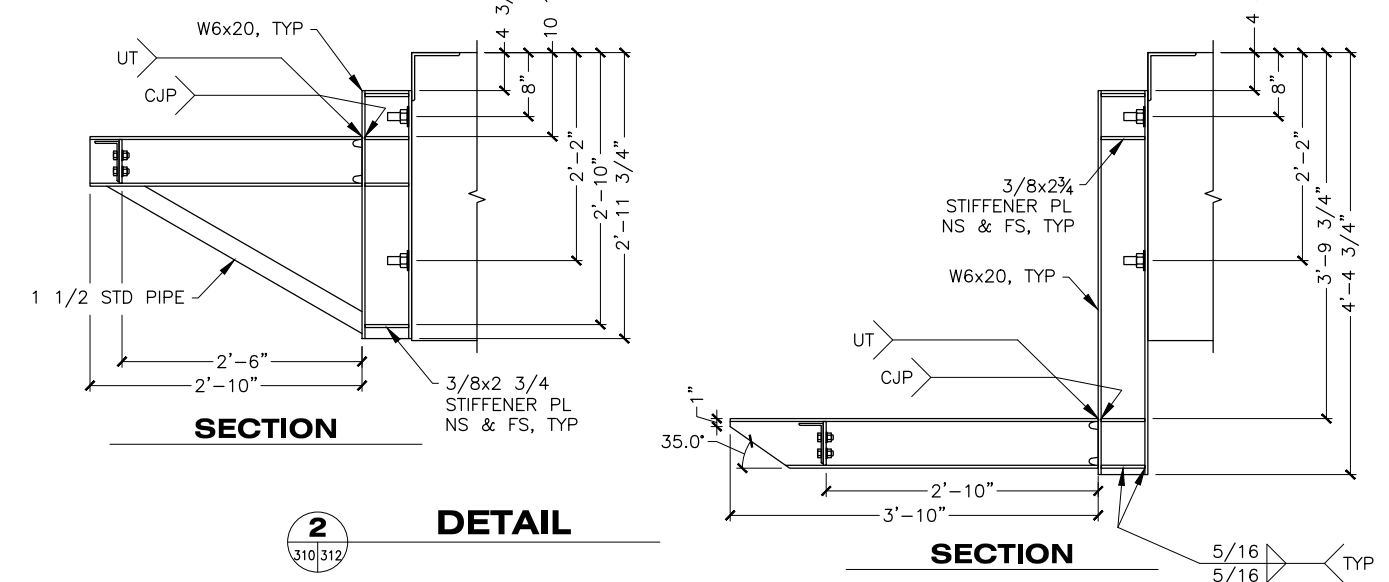
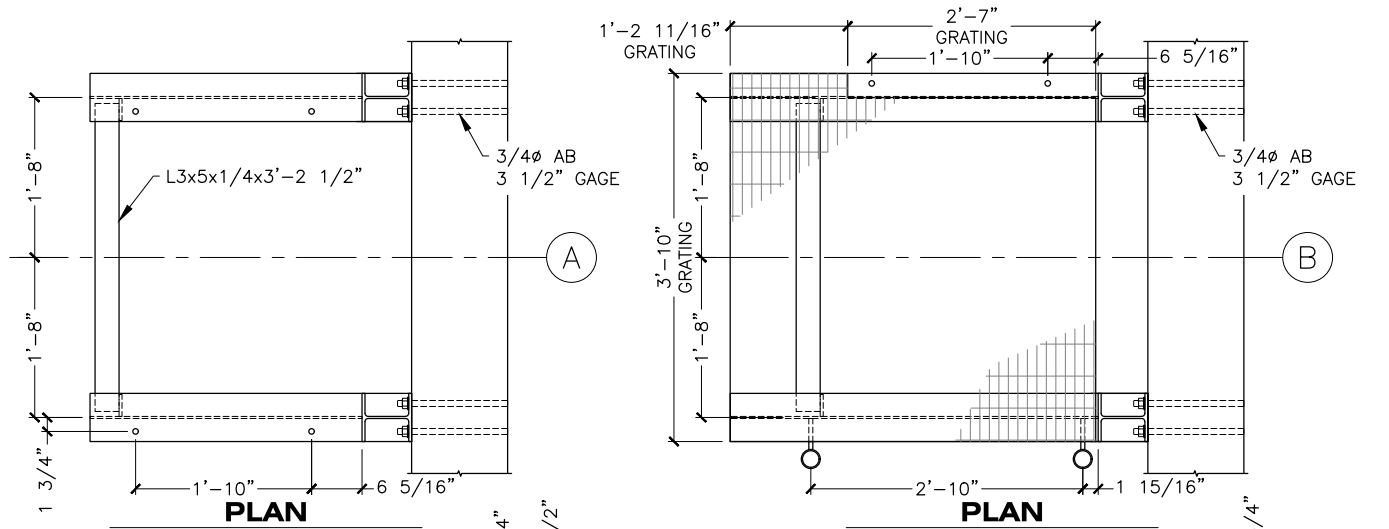
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

LIFT TOWER LANDINGS & STAIRWAY

HH 10/01/2024

FILE: Q:\Gus\68128\WF\PLANSET\310-315 - LIFT TOWER ACCESS SHELTER GANGWAYS.dwg DATE: 3/18/2019 14:01 LAYOUT: 312 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	312	145



- GENERAL NOTES:**
- PIPE GUARDRAILS AND HANDRAILS ARE 1 1/2 STANDARD PIPE. CENTER LINE RADIUS OF PIPE BENDS IS 3 TIMES NOMINAL DIAMETER. ALL CLOSED SECTIONS SHALL BE VENTED WITH 1/2 DIAMETER HOLES AT THEIR LOWEST POINT TO PREVENT ACCUMULATION OF MOISTURE. DIMENSIONS ARE SHOWN TO INTERSECTIONS OF PIPE QS.
 - GRATING SHALL BE TYPE W 19W4 RESISTANCE WELDED GRATING ASSEMBLED FROM 1 1/2x3/16 SERRATED BEARING BARS ON 1 3/16 CENTERS AND CROSS BARS SPACED 4" CENTERS. BAND ALL PANEL EDGES. HOT DIP GALVANIZE (HDG) AFTER FABRICATION. CHECKER PLATE NOSING AT UPPER PLATFORM EDGE ADJACENT TO STAIRWAY AND LOWER PLATFORM EDGE ADJACENT TO DOLPHIN. FASTEN GRATING TO SUPPORT FRAMING WITH HDG SADDLE CLIPS AND THROUGH-BOLTS OR WELDED STUDS AT MANUFACTURER RECOMMENDED SPACING.
 - STAIR TREADS ARE TYPE B, WELDED GRATING ASSEMBLED FROM 1 1/2x3/16 SERRATED BEARING BARS SPACED 1 3/16 CENTERS; CROSS BARS SPACED 4" CENTERS WITH CHECKER PLATE NOSING AND CARRIER PLATES.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

LIFT TOWER LANDINGS & STAIRWAY

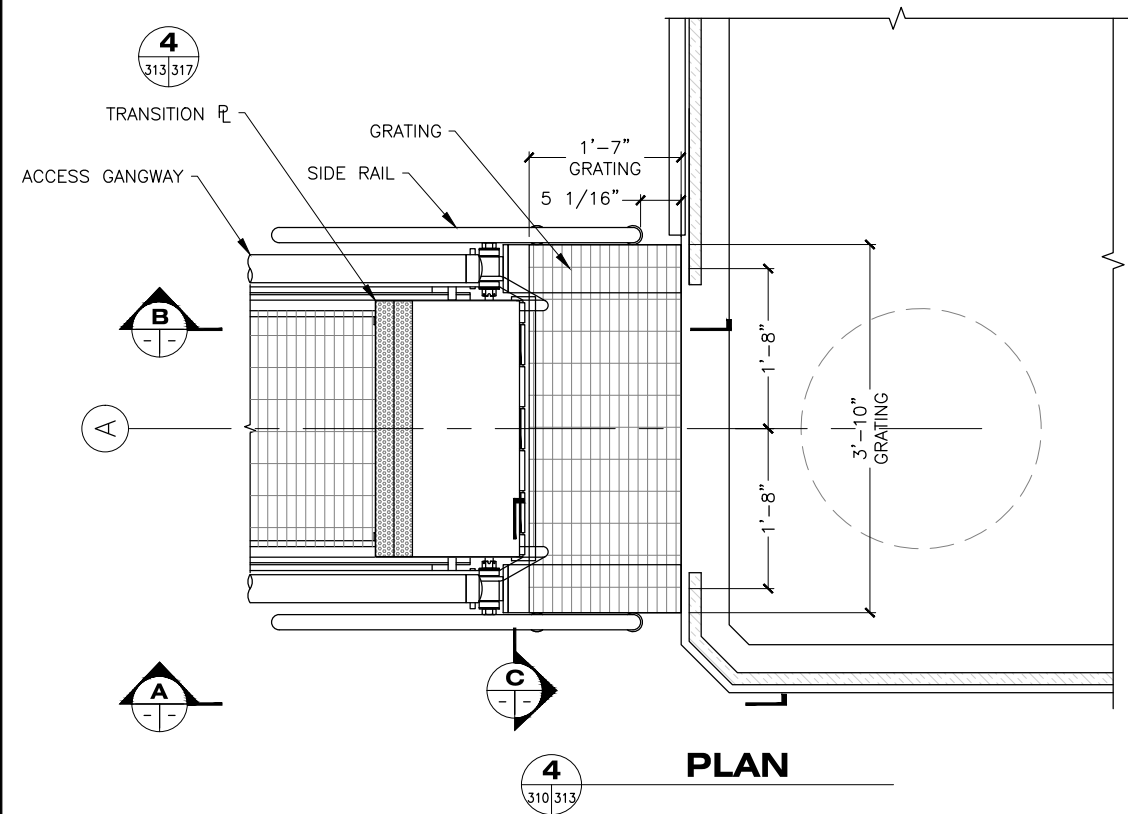
HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

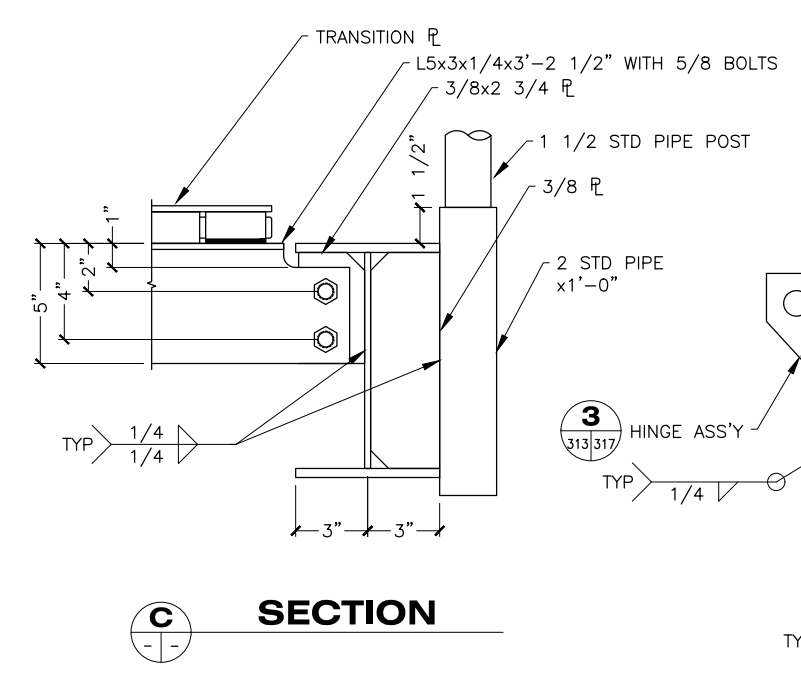
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	313	145

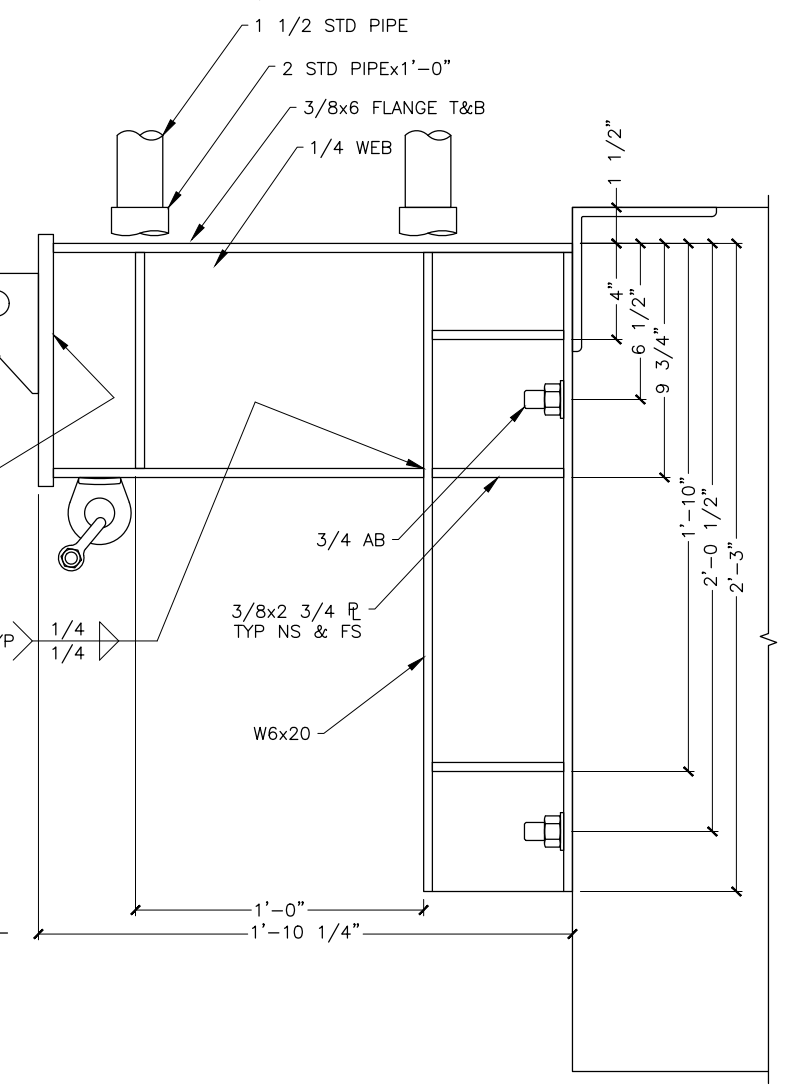
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 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



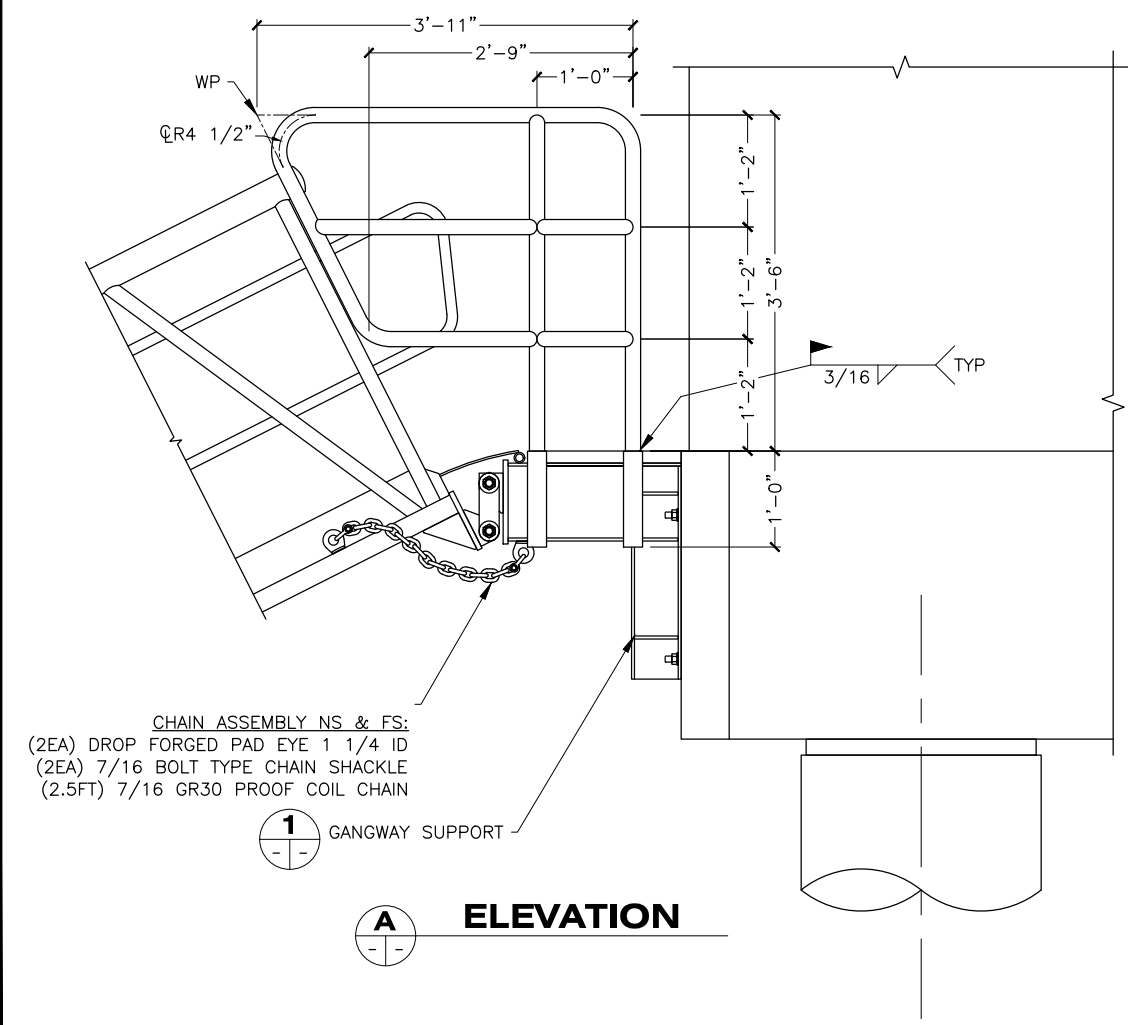
PLAN



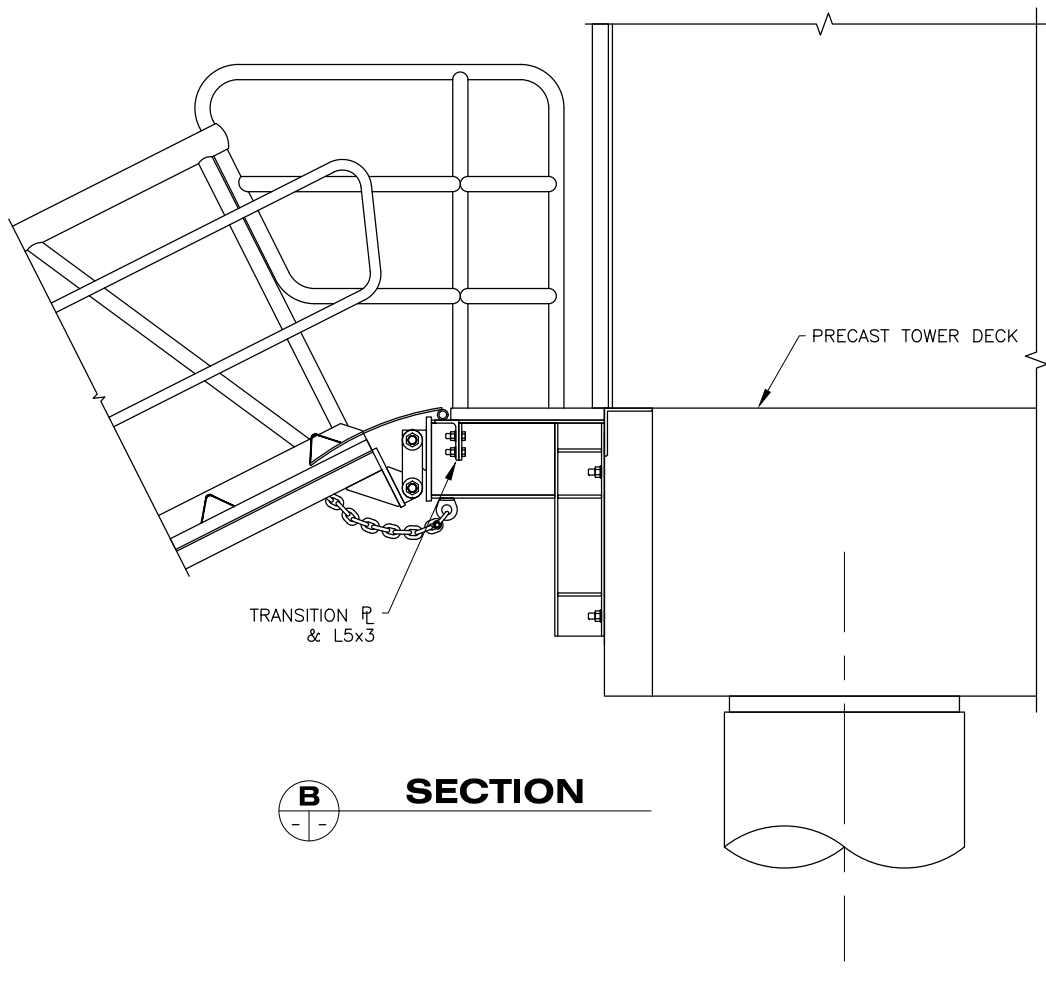
SECTION



DETAIL



ELEVATION



SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

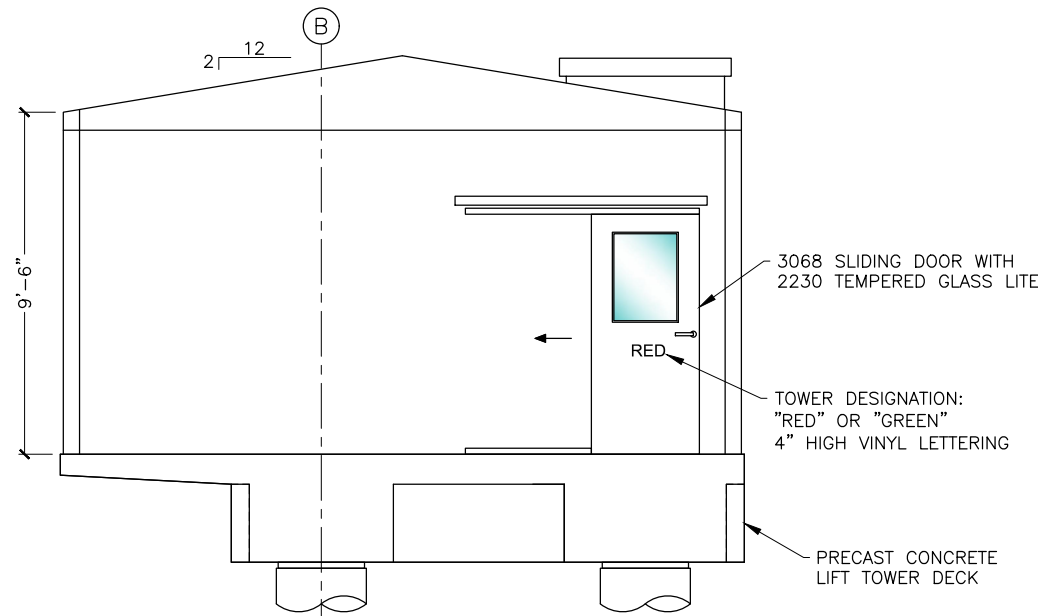
LIFT TOWER LANDINGS & STAIRWAY

HH 10/01/2024

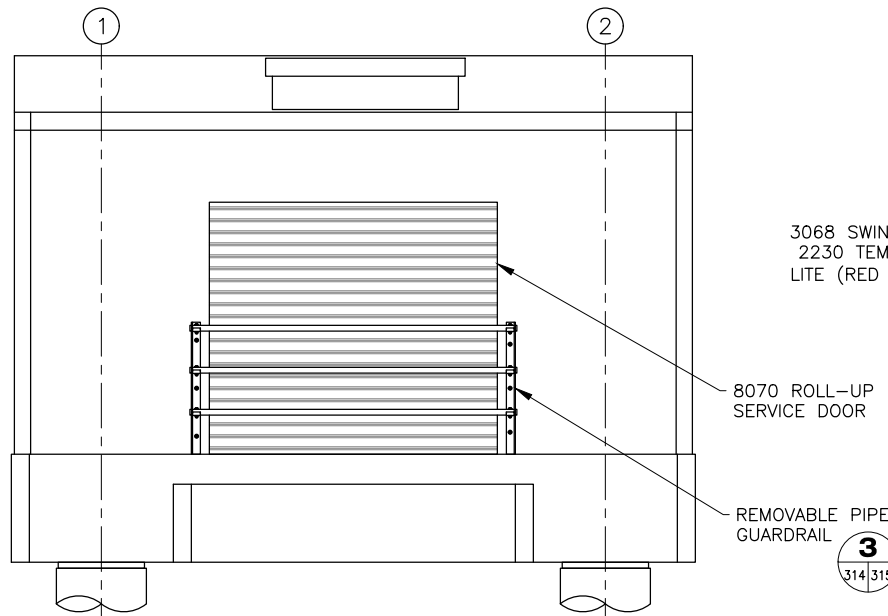
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	314	145

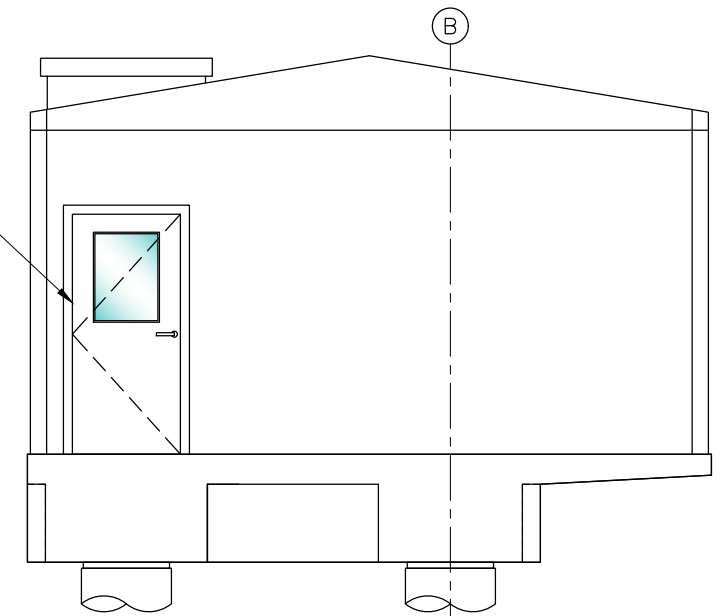
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 DATE: 3/18/2019 14:01 LAYOUT: 314
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



B ELEVATION

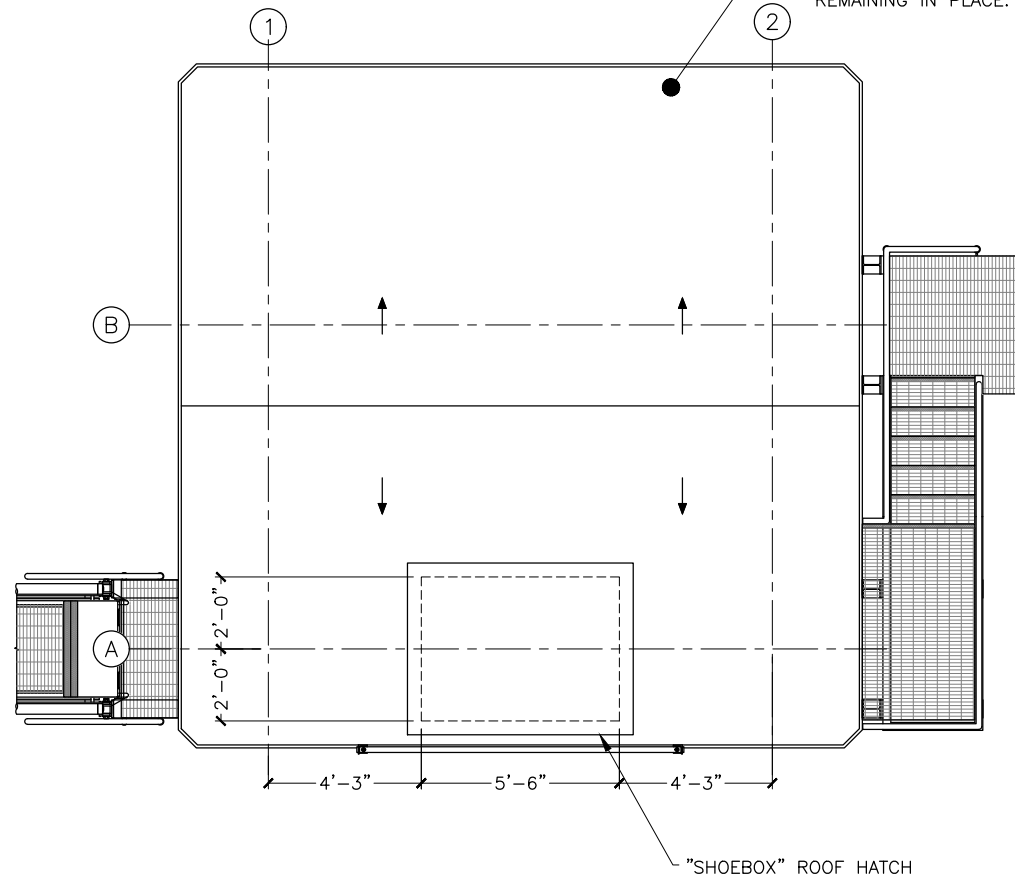


**A ELEVATION
SIDE FACING BRIDGE**

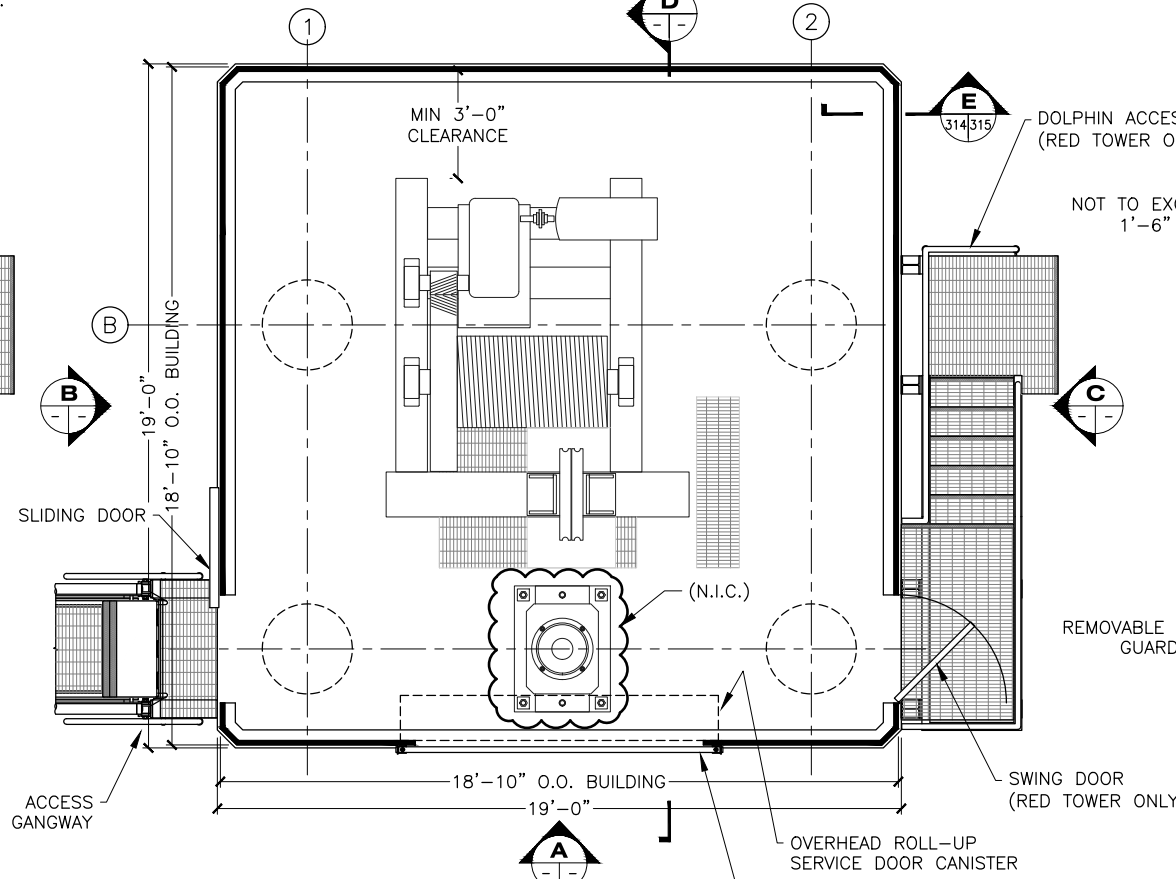


C ELEVATION

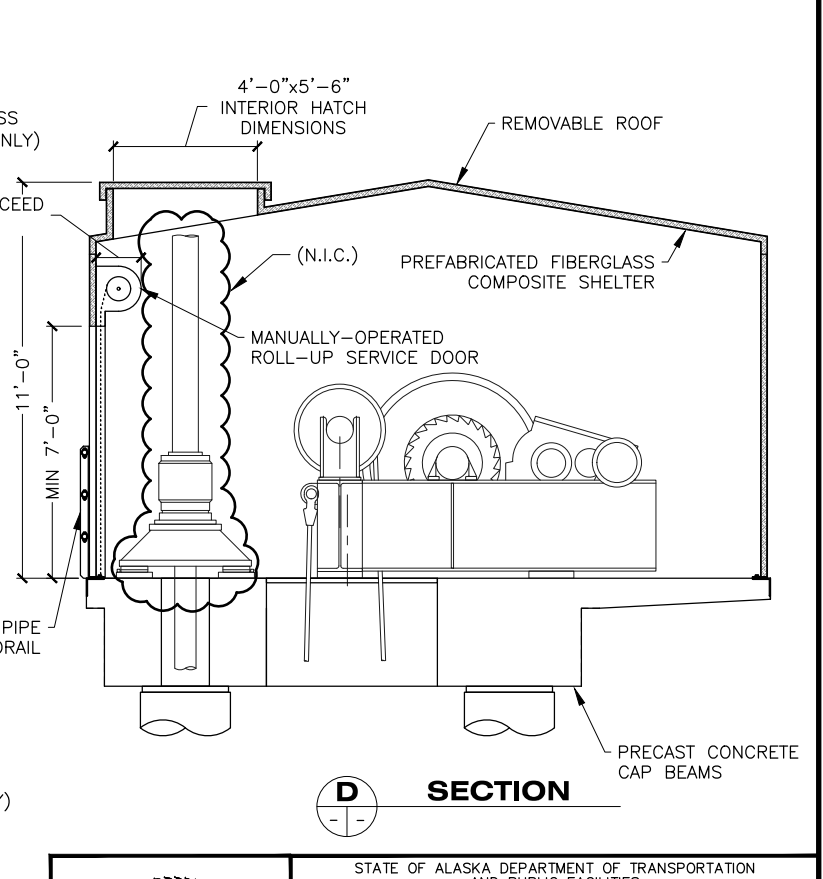
GABLE ROOF SHOWN, HIP ROOF ALSO PERMITTED.
 ROOF SHALL BE REMOVABLE TO PERMIT FUTURE REPLACEMENT OF EQUIPMENT. ROOF SHALL BE A SINGLE UNIT THAT IS REMOVED IN ITS ENTIRETY WITH THE WALLS REMAINING IN PLACE.



ROOF PLAN



FLOOR PLAN

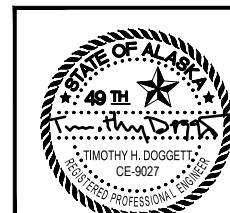


D SECTION

- NOTES:
 1. WHERE HEAVY EQUIPMENT OR CONDUITS WILL BE SECURED TO THE WALLS, BOND REINFORCEMENT TO THE FOAM CORE AND ENCAPSULATE IN THE COMPOSITE WALL. COORDINATE WITH ELECTRICAL CONTRACTOR TO LOCATE AREAS REQUIRING REINFORCEMENT.

6 RED TOWER SHOWN, GREEN TOWER OPP HAND

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

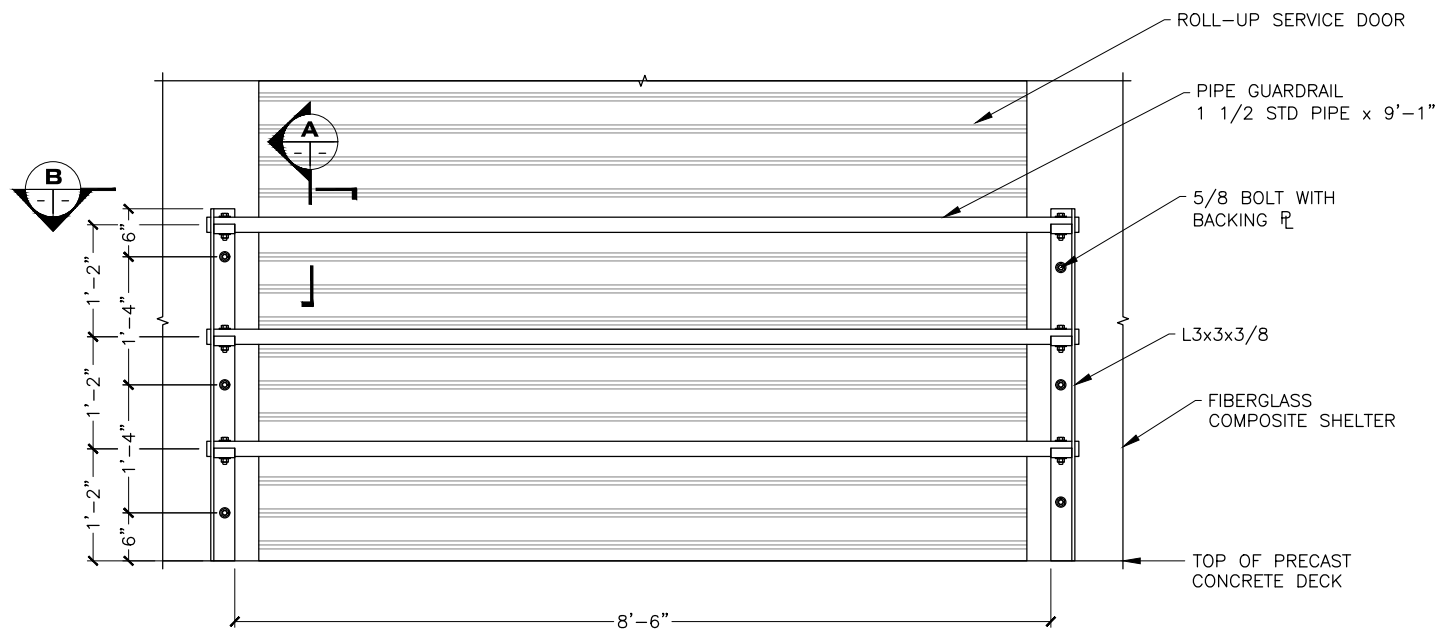
LIFT TOWER FRP BUILDING

HH 10/01/2024

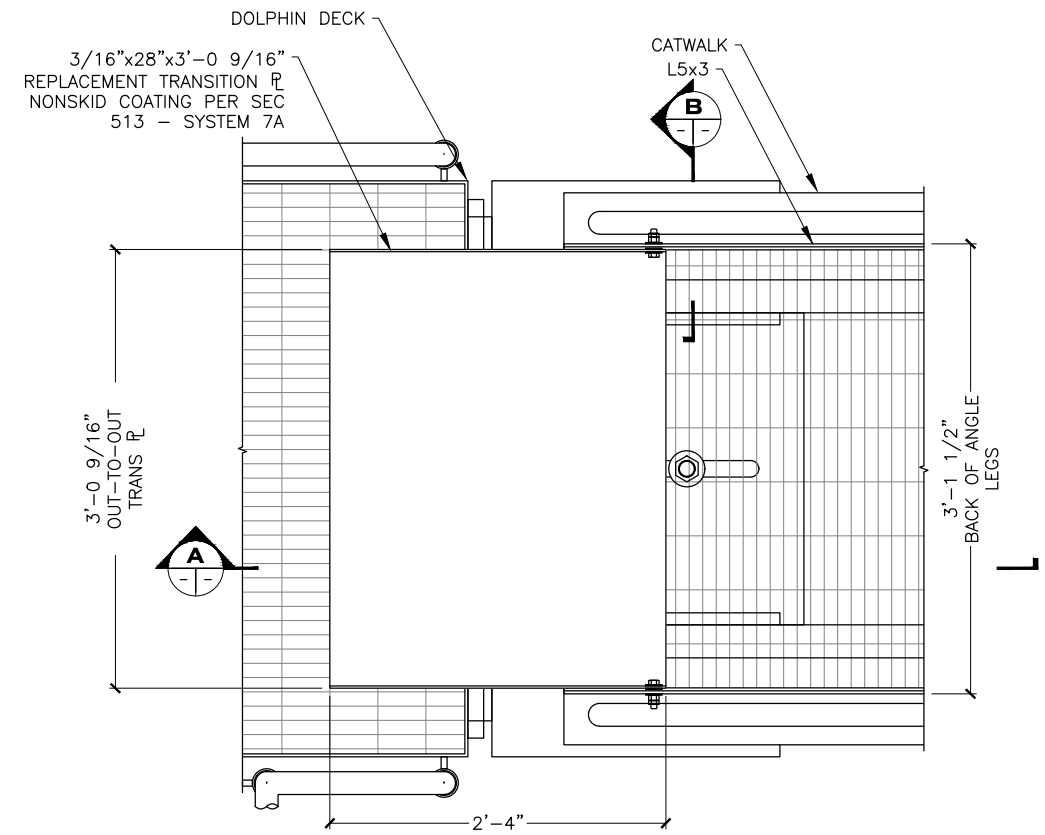
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	315	145

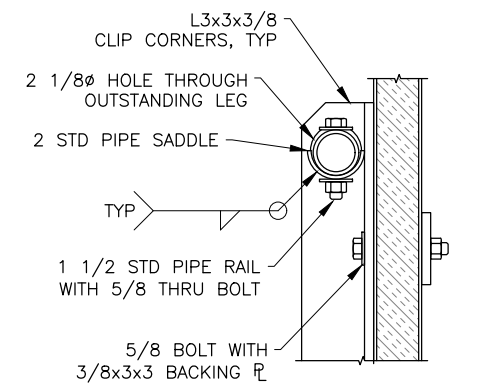
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 CHECKED: STAFF
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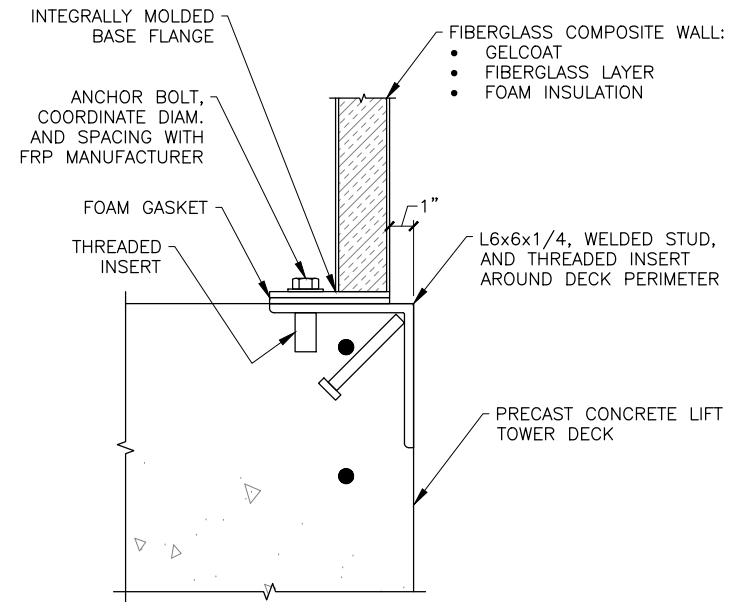
3
314 315
310
DETAIL



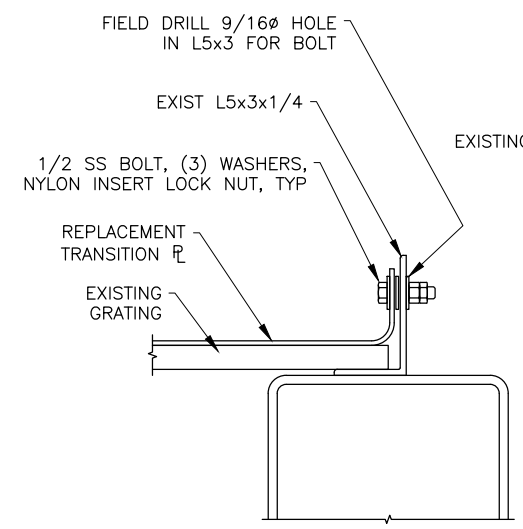
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310 315
DETAIL



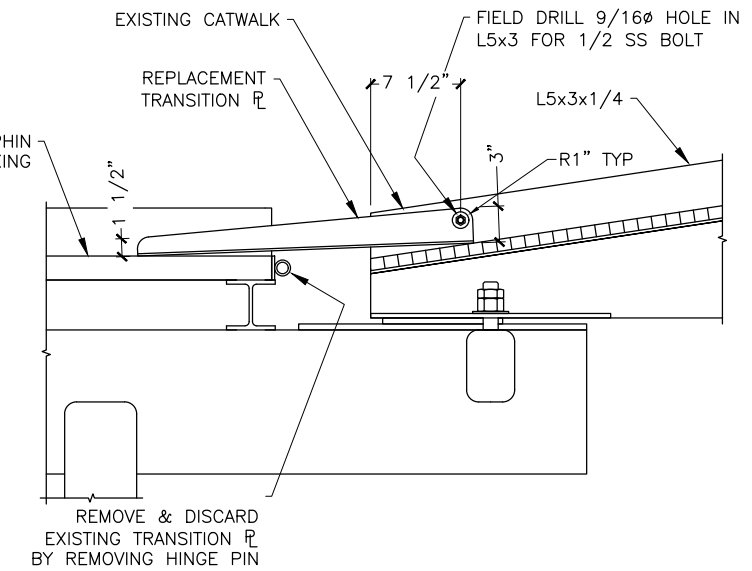
A
SECTION



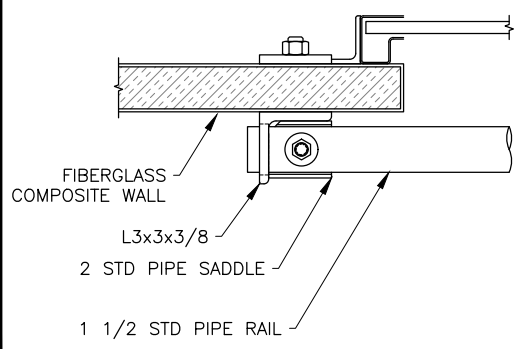
E
314 315
SECTION



B
SECTION

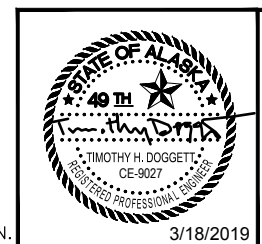


A
SECTION



B
SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



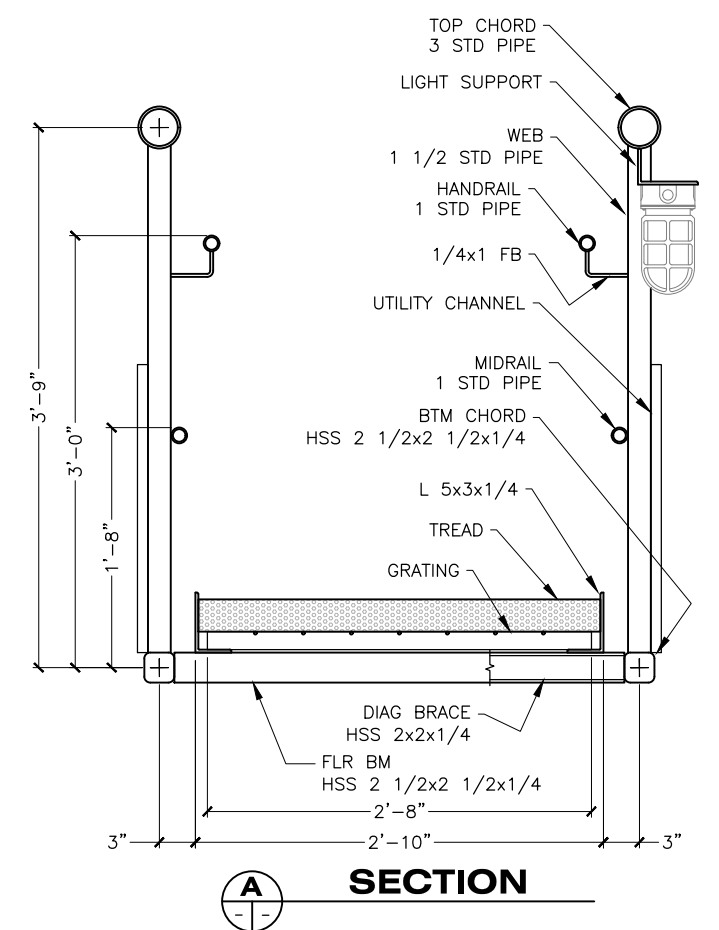
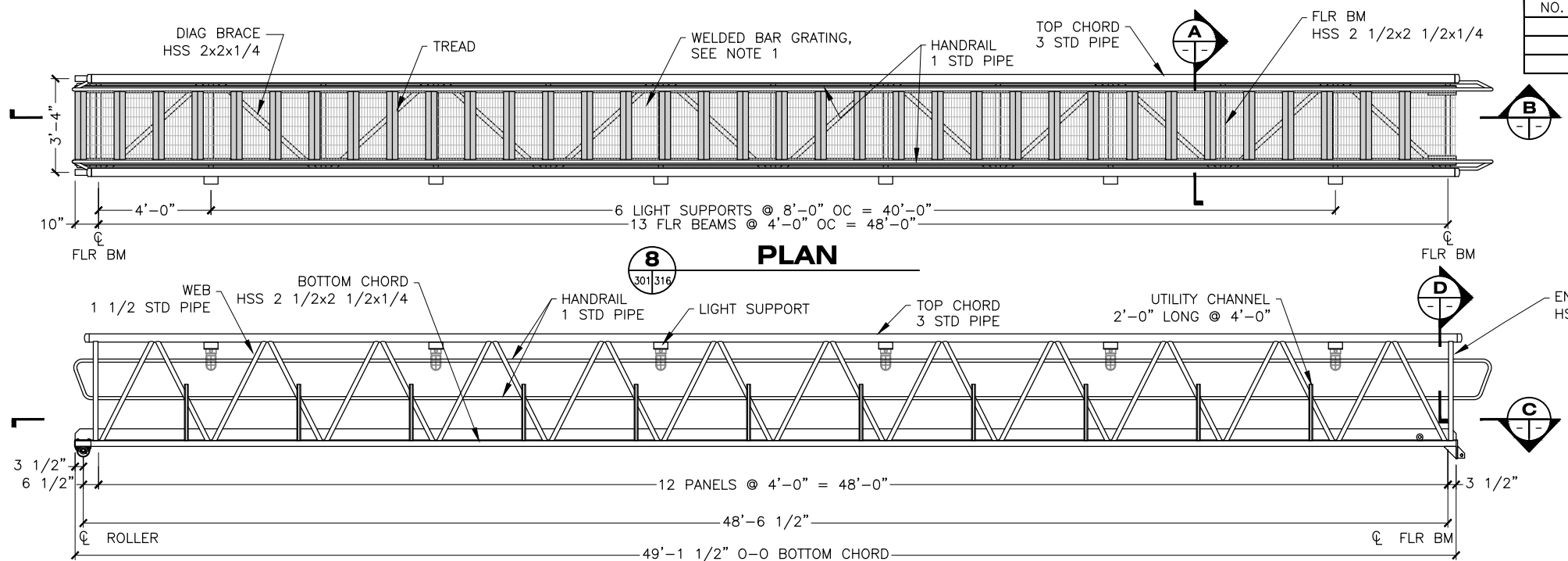
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS
 LIFT TOWER FRP BUILDING
 CATWALK TRANSITION PLS

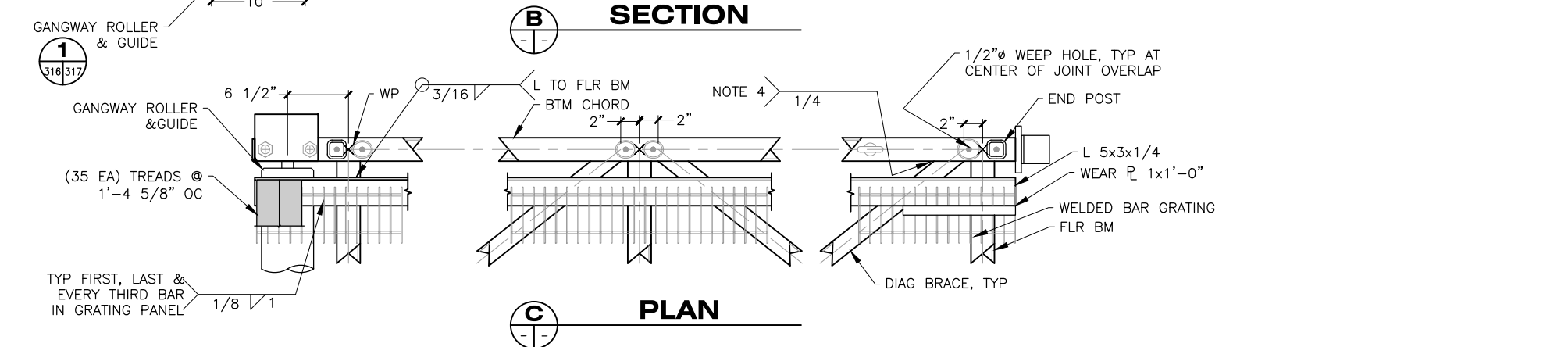
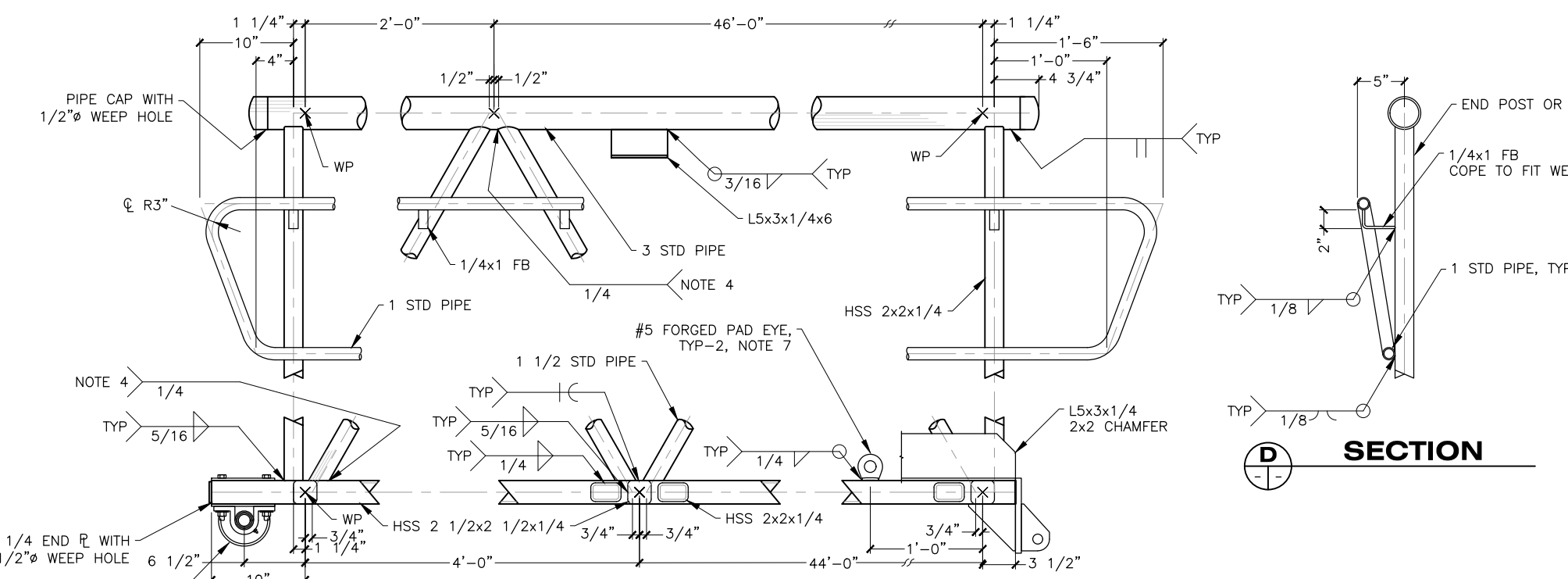
HH 10/01/2024

FILE: \\us\68128\WP\PLANSET\316-317 - 48ft LIFT TOWER ACCESS GANGWAY.dwg
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 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

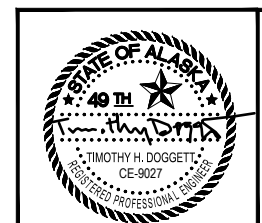
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	316	145



NOTE: EAST GANGWAY SHOWN, WEST GANGWAY OPPOSITE HAND.



- NOTES:**
- TYPE W 19W4 GRATING: SERRATED 1 1/2"x1/8" BEARING BARS, 1 3/16" OC WITH REGULAR CROSS BARS 4" OC.
 - NO CHORD SPLICES PERMITTED IN THE MIDDLE THIRD OF GANGWAY. SPLICES SHALL BE CJP WELDS WITH BACKING.
 - GANGWAY SHALL BE HOT DIP GALVANIZED. ADDITIONAL VENTING THAT MAY BE REQUIRED FOR GALVANIZING SHALL BE SHOWN ON SHOP DRAWINGS FOR ENGINEER'S APPROVAL.
 - THE TOE AND HEEL OF T-, K-, AND Y-CONNECTIONS WITH ENCLOSED ANGLES BETWEEN 120° AND 60° MAY USE FILLET WELDS, OTHERWISE CONNECTIONS SHALL BE PJP GROOVE WELDS. SHOP DRAWINGS SHALL SHOW THE WELD CONFIGURATION AND REQUIRED LEG SIZE TO ACCOUNT FOR JOINT GEOMETRY. REFER TO AWS D1.1 - 3.9.2 & 3.12.4.
 - PROVIDE LIGHT SUPPORTS AND UTILITY CHANNELS ALONG THE SIDE OF THE GANGWAY FACING THE BRIDGE.
 - WITH WRITTEN APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE A MANUFACTURER-DESIGNED GANGWAY SYSTEM. THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE GANGWAY SHALL SUBMIT SEALED CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER. THE GANGWAY SHALL BE DESIGNED IN ACCORDANCE WITH "LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES" FOR LIVE LOAD=65 PSF + 500 LBS (CONCURRENT) AND BASIC WINDSPEED V=100 MPH.
 - FURNISH (4) 7/16" BOLT TYPE CHAIN SHACKLES AND (2) 7/16"x2'-6" GR 30 PROOF COIL SAFETY CHAINS PER GANGWAY. SECURE GANGWAY TO TOWER CAP WITH CHAINS AND SHACKLES.
 - APPROXIMATE GANGWAY SELF-WEIGHT = 4,500 LBS



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

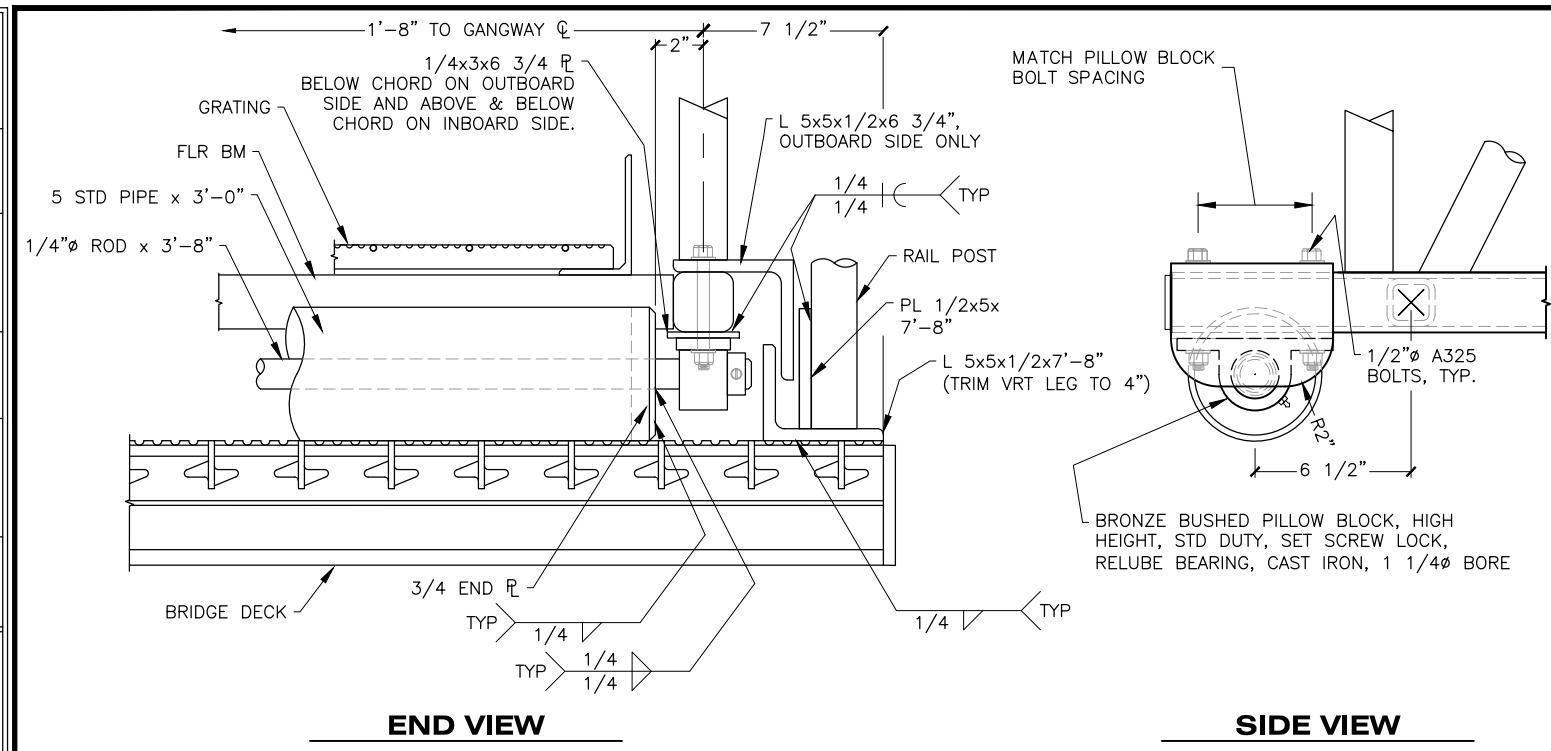
**LIFT TOWER
 48' ACCESS GANGWAY**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

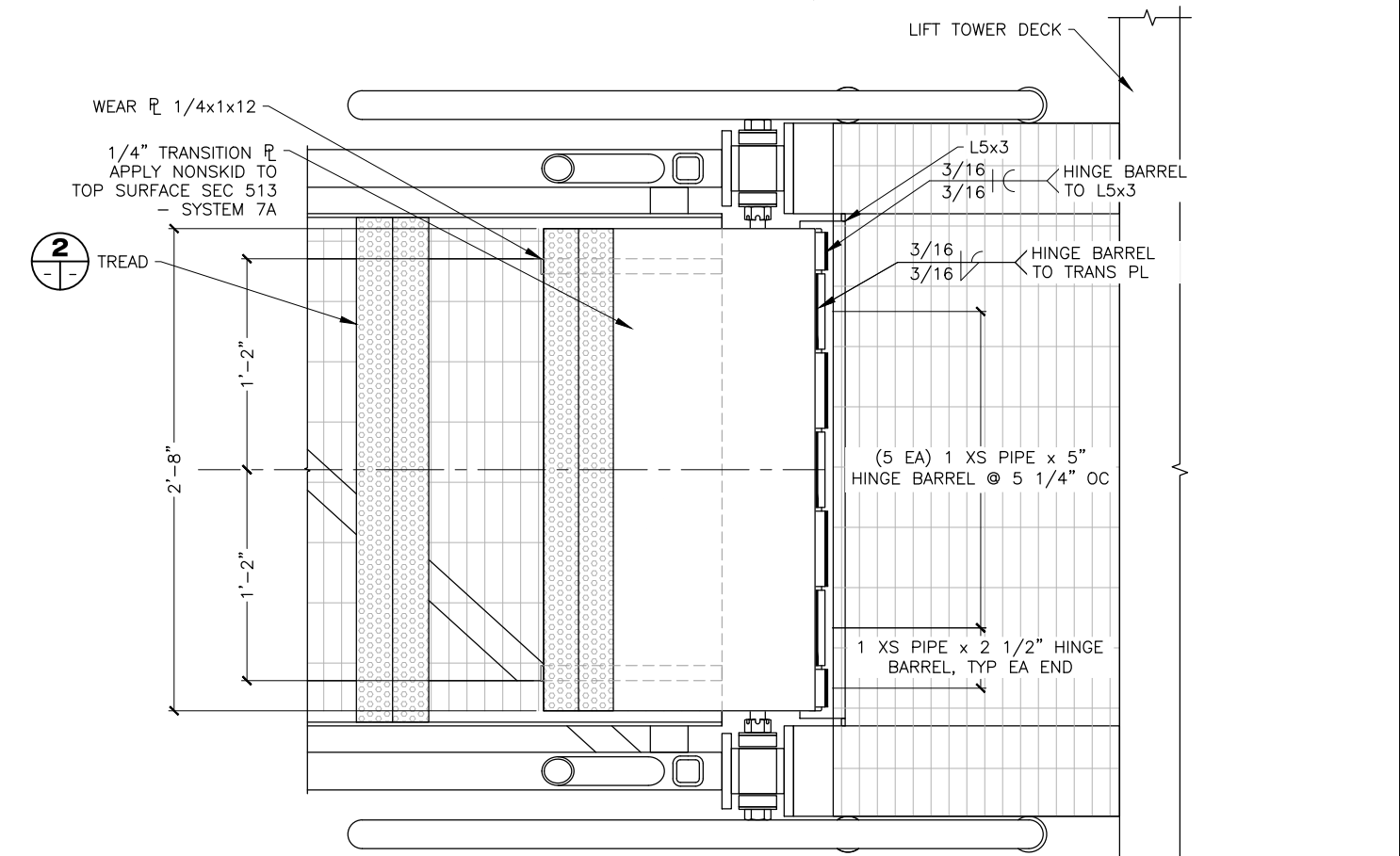
3/18/2019
 HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	317	145

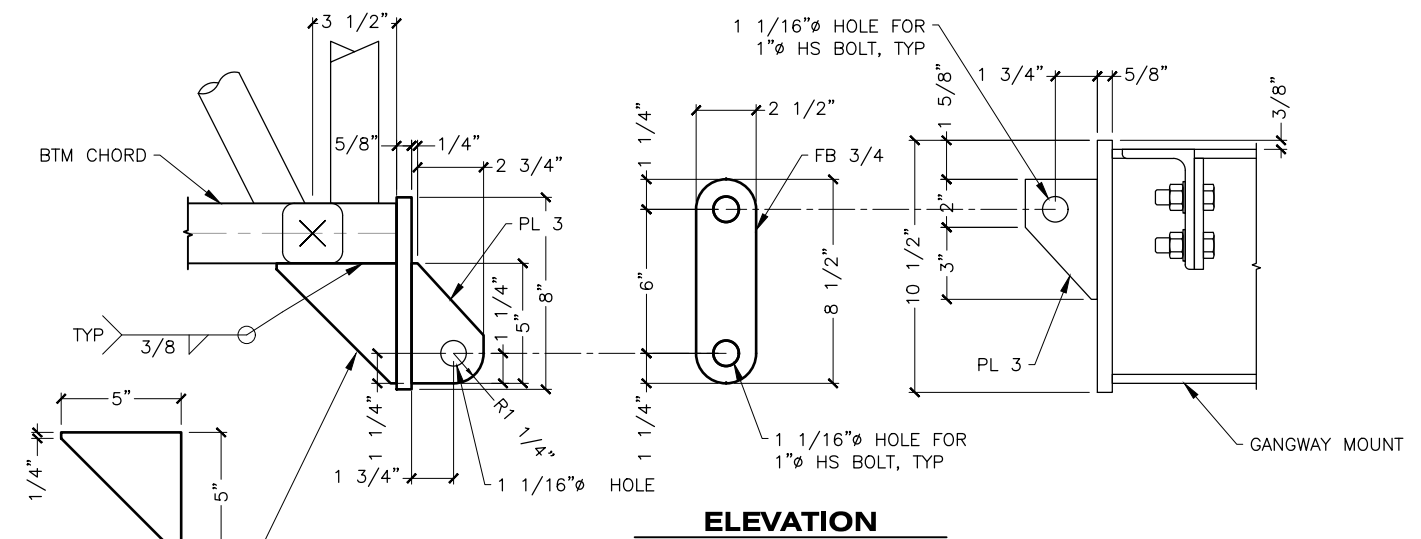
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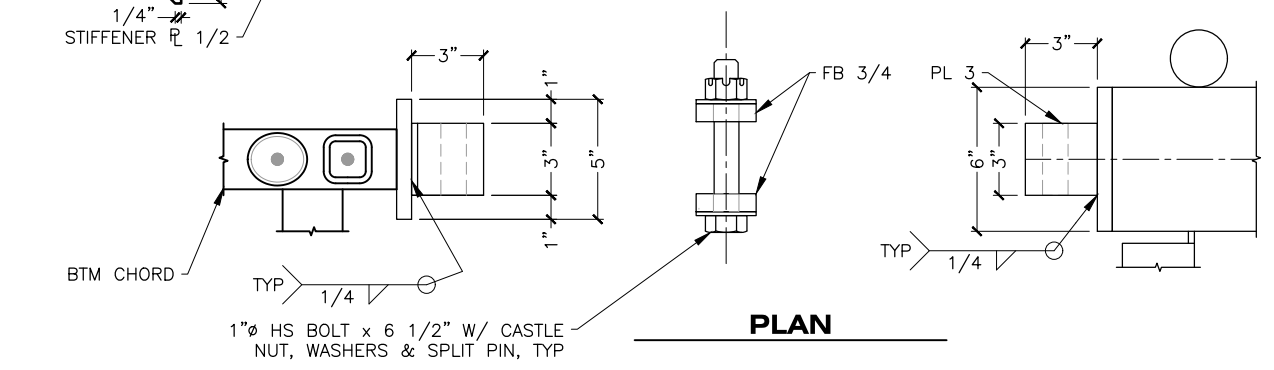
1
316/317
DETAIL
GANGWAY ROLLER & GUIDE
ROLLER BEARING & GUIDE AT OUTBOARD SIDE ONLY



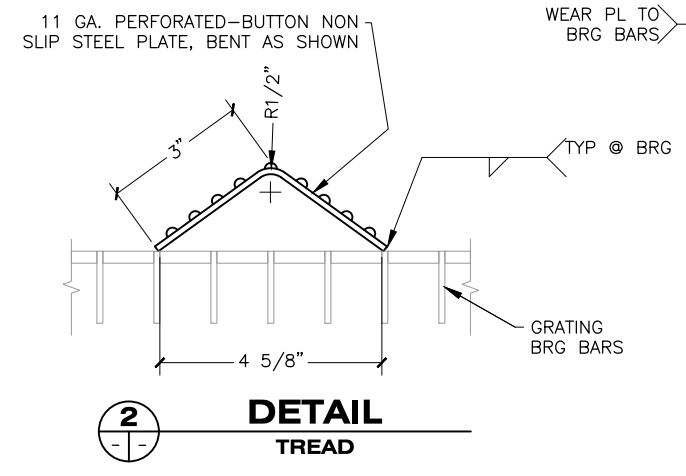
PLAN



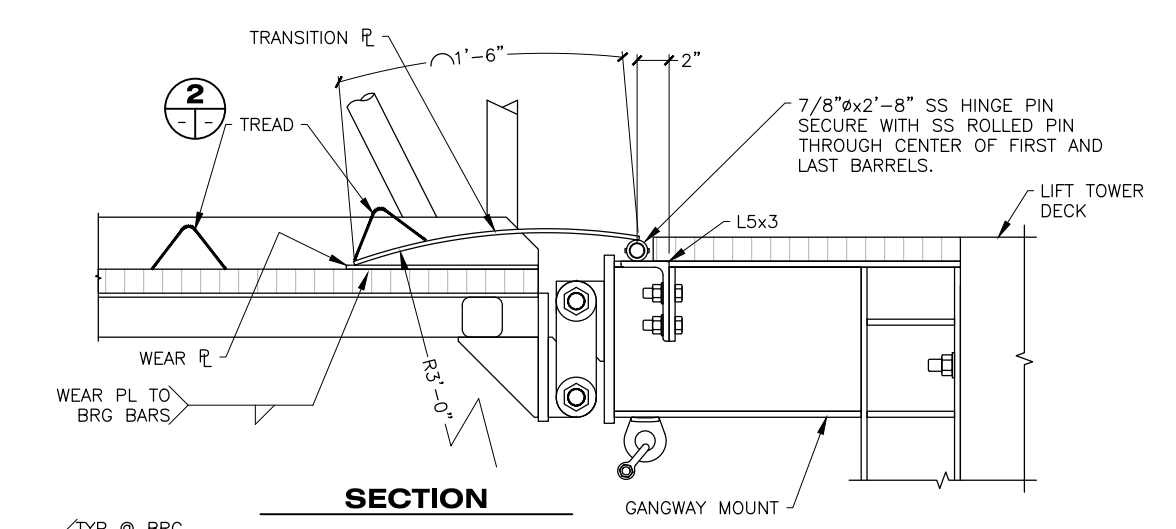
ELEVATION



3
313/317
DETAIL
HINGE ASSEMBLY

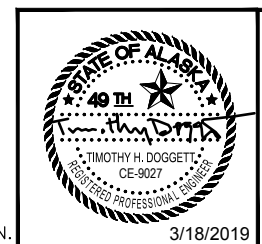


2
-|-
DETAIL
TREAD



SECTION

4
313/317
DETAIL
TRANSITION PLATE



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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

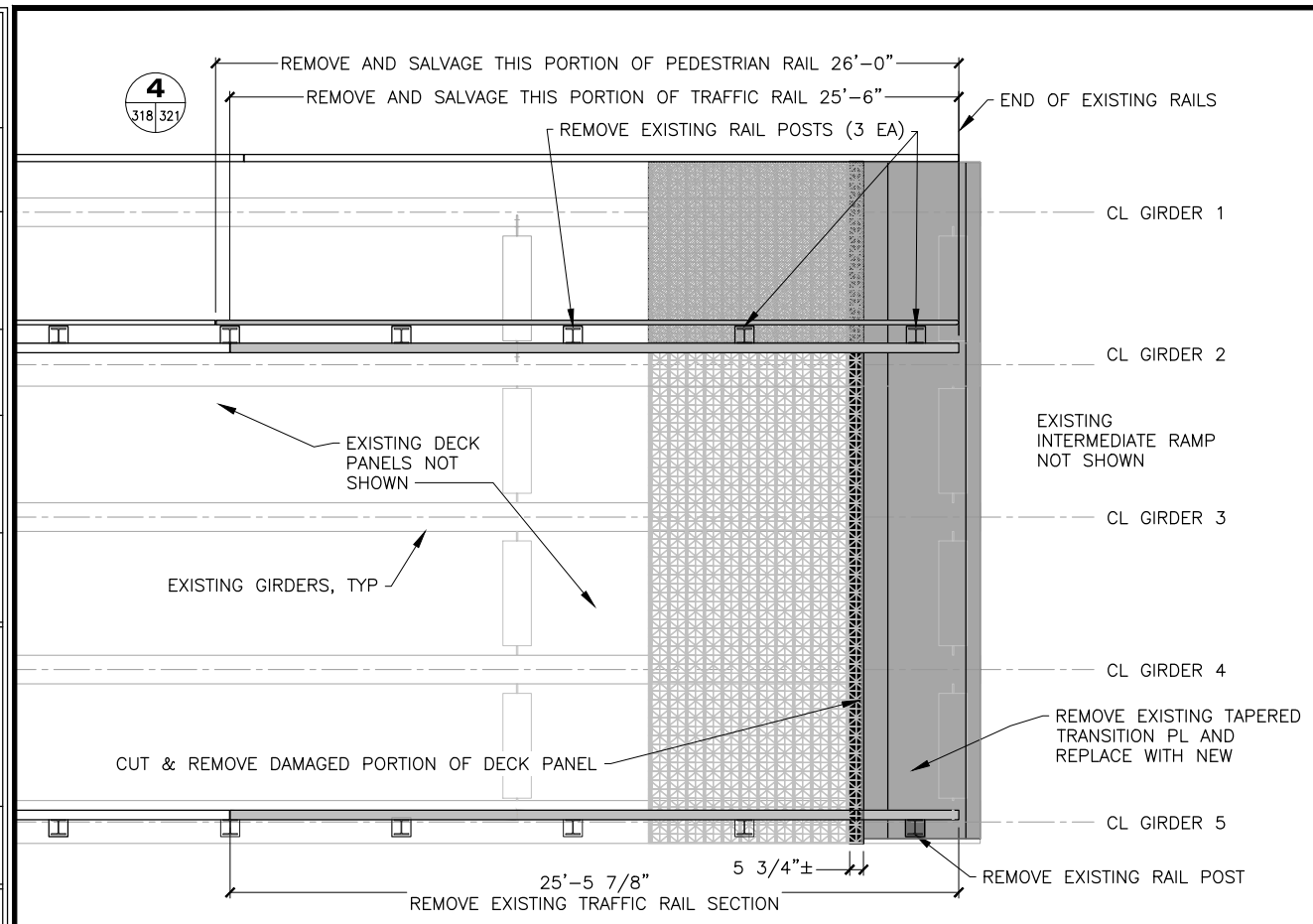
LIFT TOWER
48' ACCESS GANGWAY

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

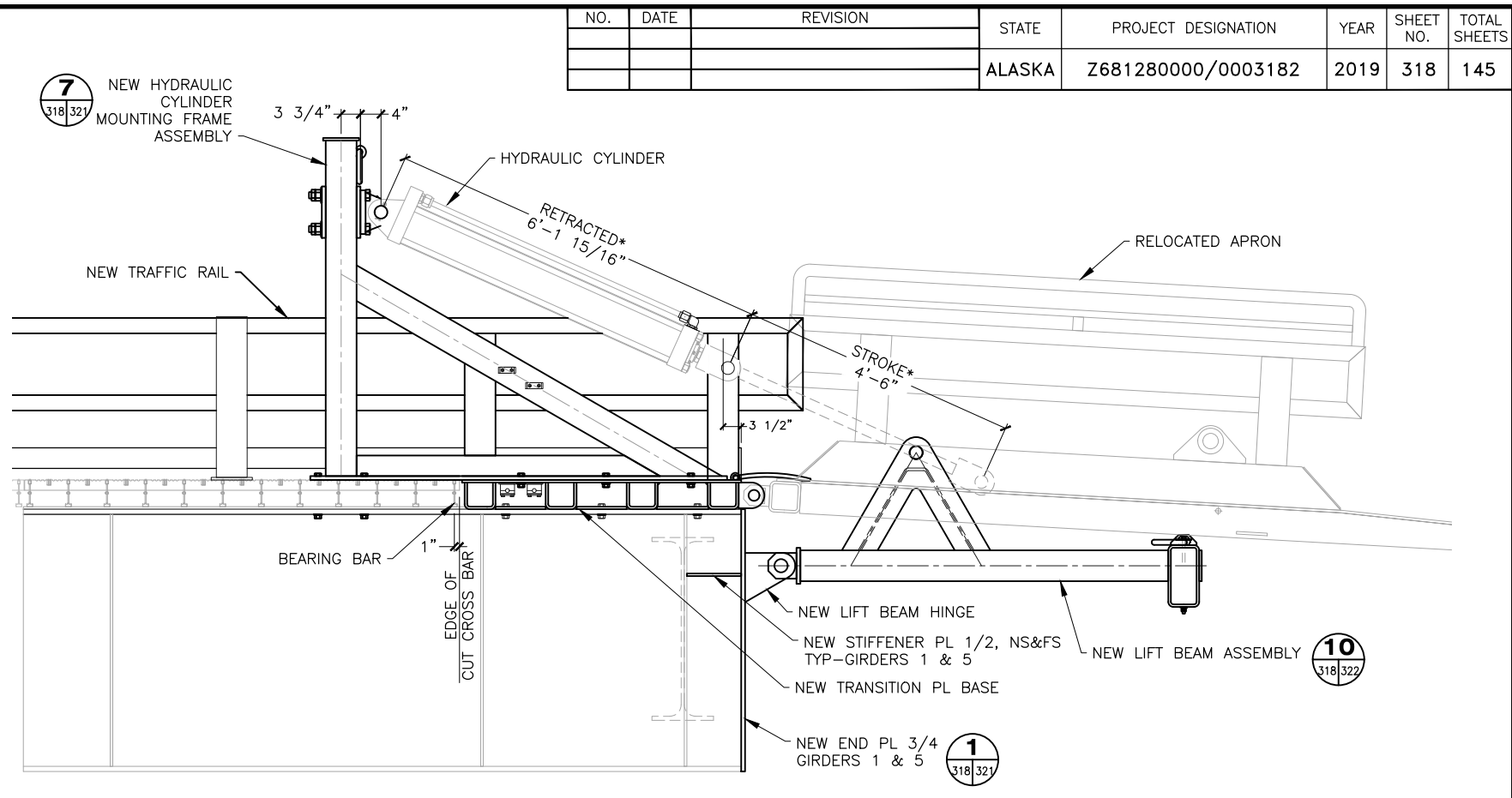
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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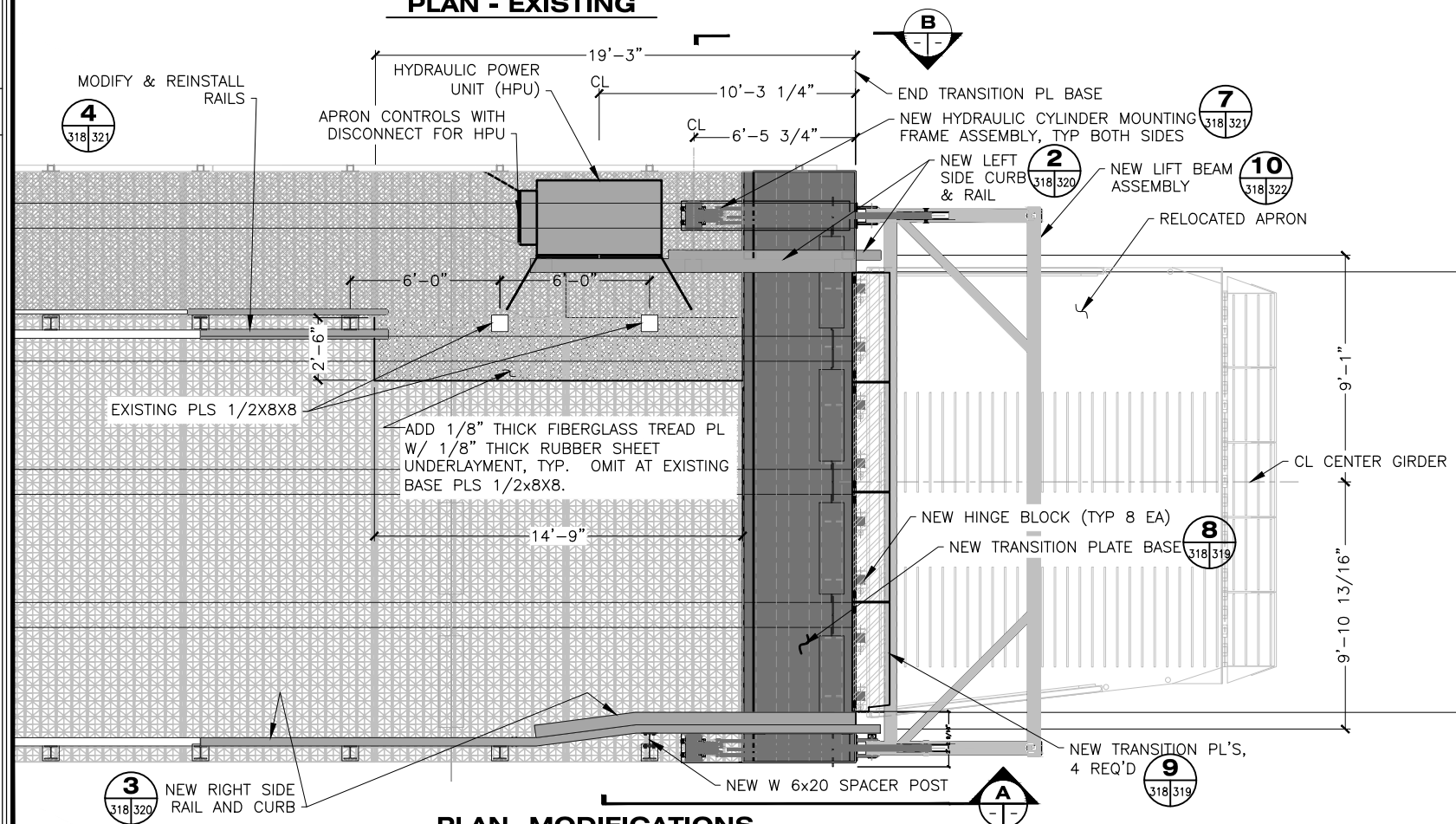
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 LAYOUT: 318
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 CHECKED: STAFF
 DRAFTED: STAFF



PLAN - EXISTING

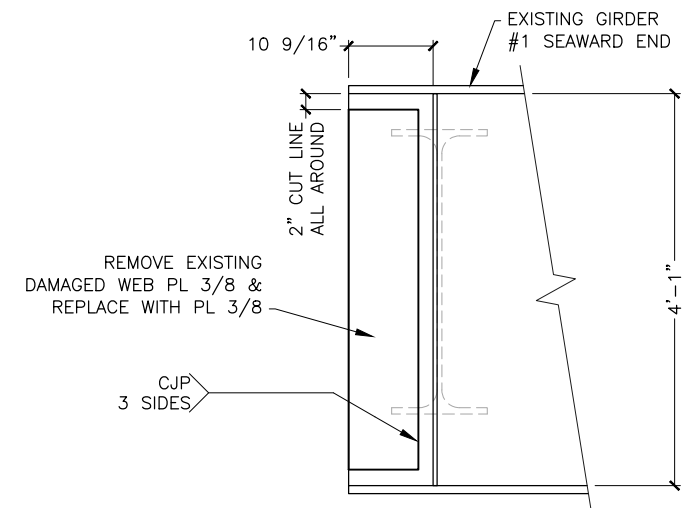


ELEVATION
SEAWARD BRIDGE END & APRON



PLAN - MODIFICATIONS

BRIDGE - SEWARD END



GIRDER #1 REPAIR
SEAWARD END ELEVATION

DAMAGED WEB, GIRDER #1 SEAWARD END



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE SEAWARD END MODIFICATIONS

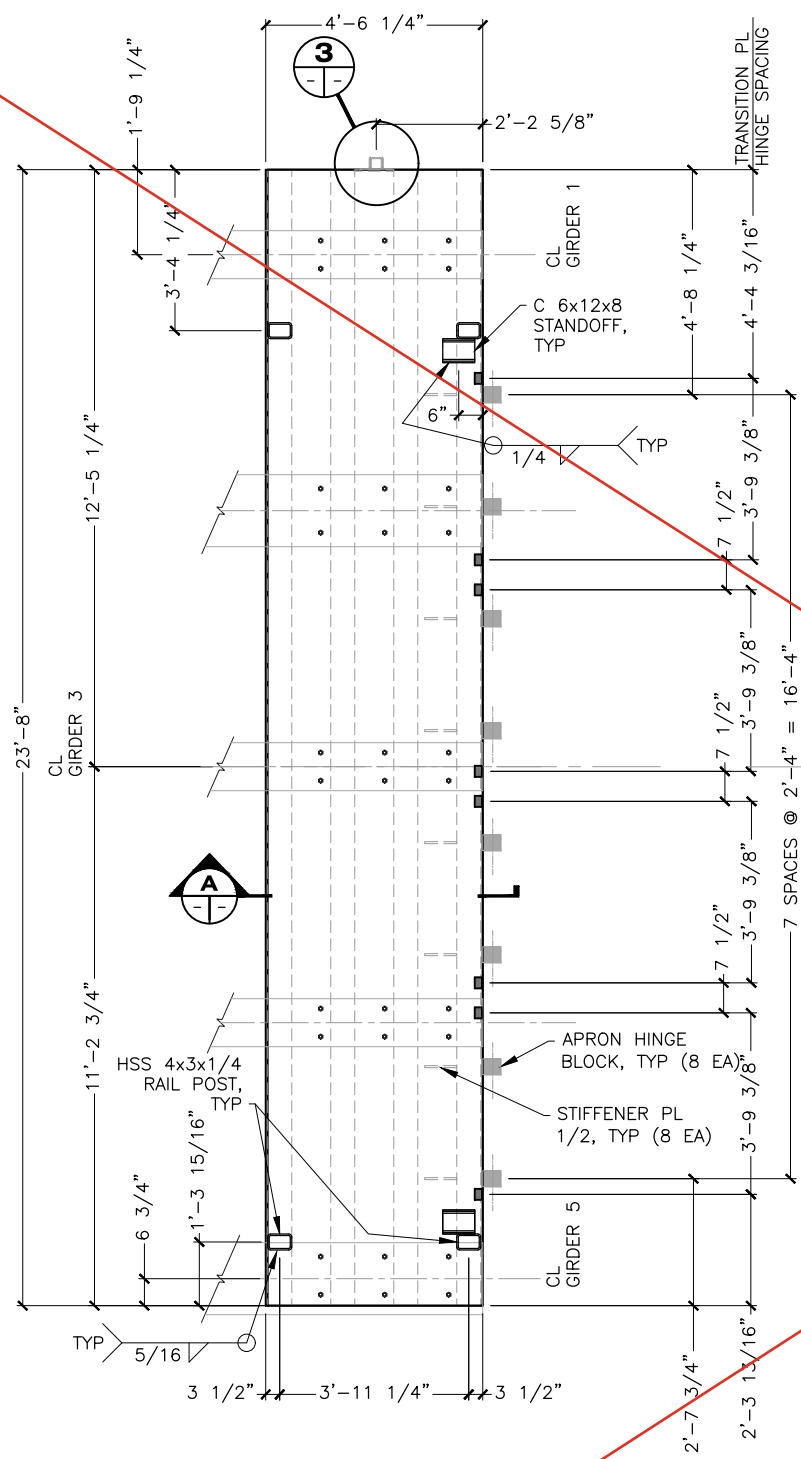
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

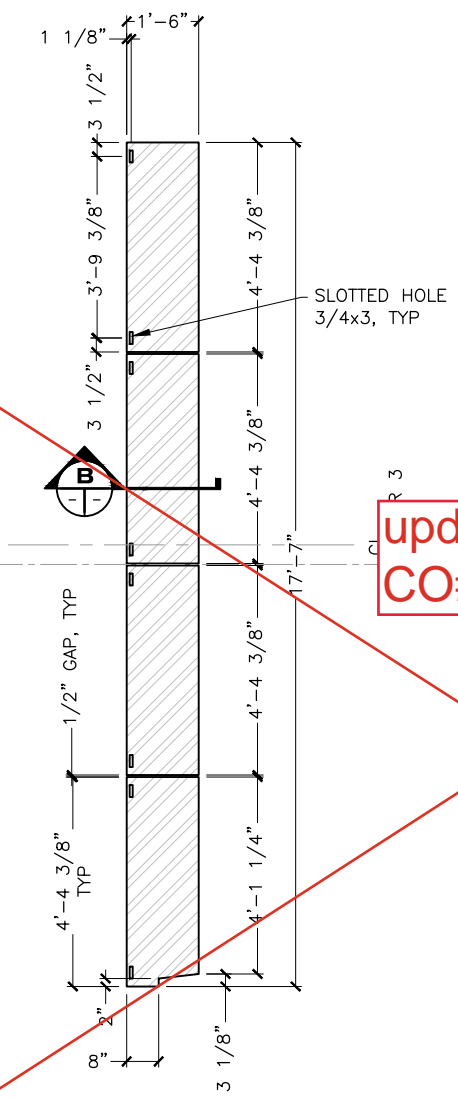
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	319	145

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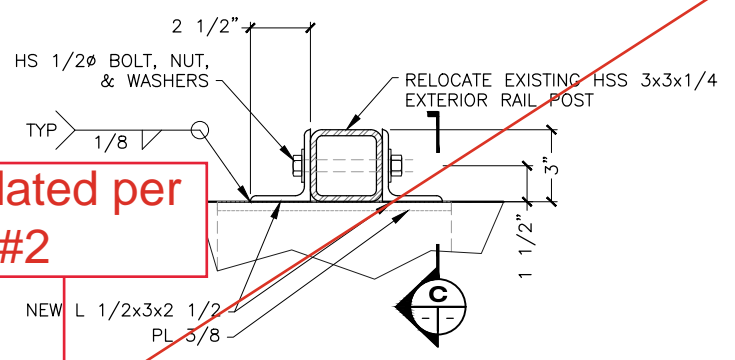


8
318/319
PLAN
TRANSITION PL BASE

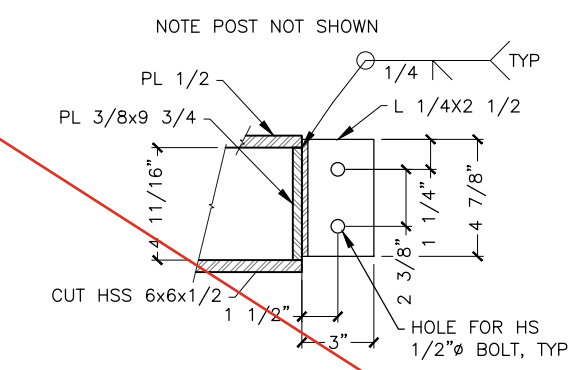


9
318/319
PLAN
TRANSITION PL'S

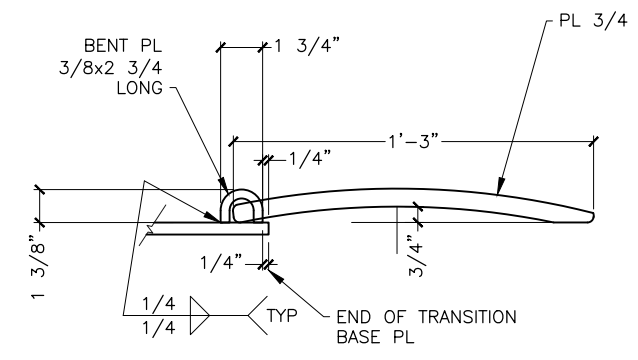
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CO#2



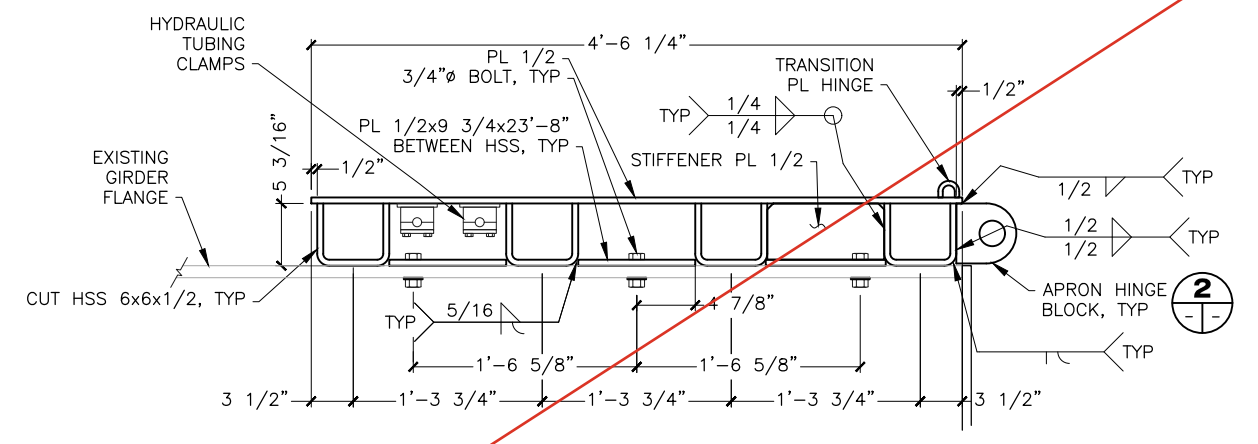
3
-
DETAIL
RELOCATED RAIL POST



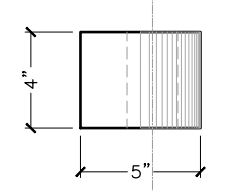
C
-
SECTION
RAIL POST ATTACHMENT



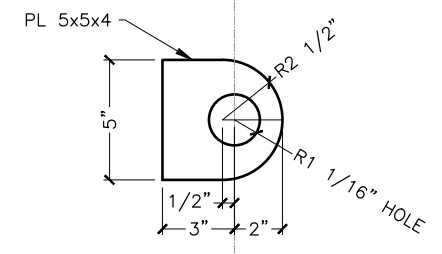
B
-
SECTION
TRANSITION PL



A
-
SECTION
TRANSITION PL BASE



PLAN

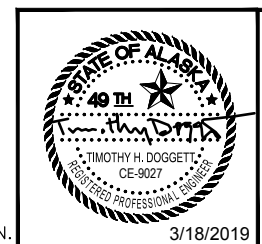


ELEVATION

2
-
APRON HINGE BLOCK

NOTES:
1. COAT TOP OF TRANSITION PLATES IN ACCORDANCE WITH SECTION 513 - SYSTEM 7A EPOXY NONSKID

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

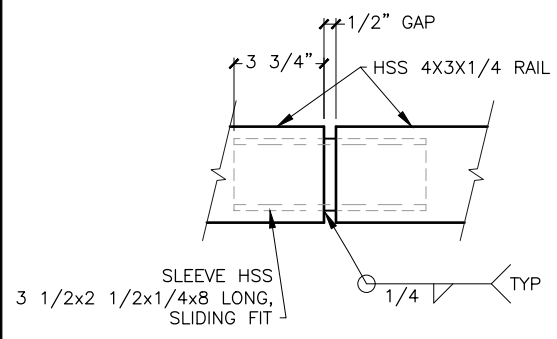


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 GUSTAVUS FERRY TERMINAL IMPROVEMENTS
 TRANSFER BRIDGE SEAWARD END MODIFICATIONS

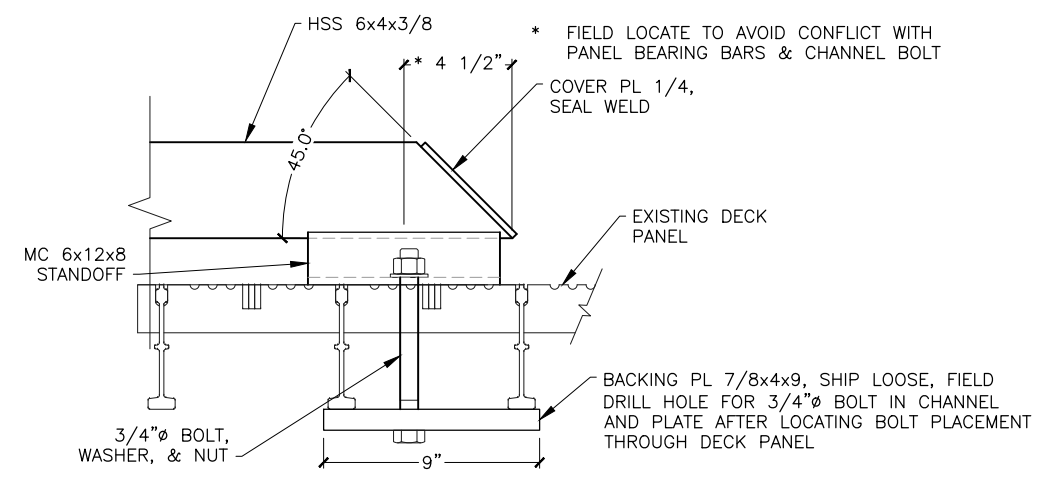
HH 10/01/2024

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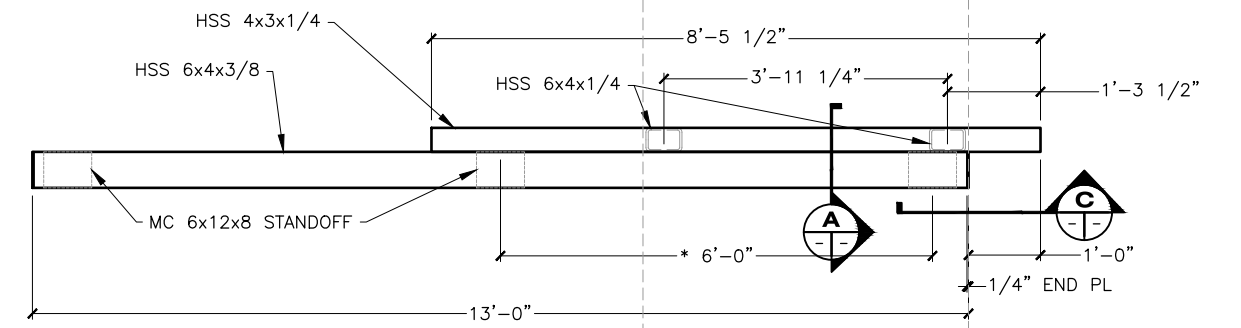
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	320	145



1 **DETAIL**
RAIL SLEEVE

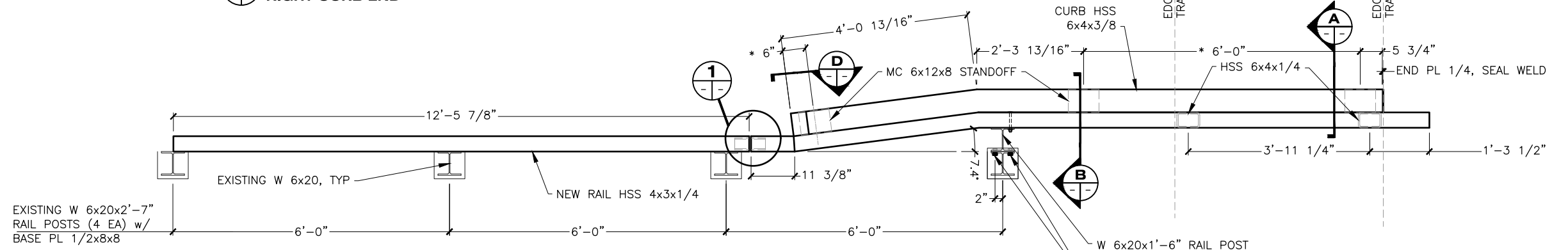


D **ELEVATION**
RIGHT CURB END

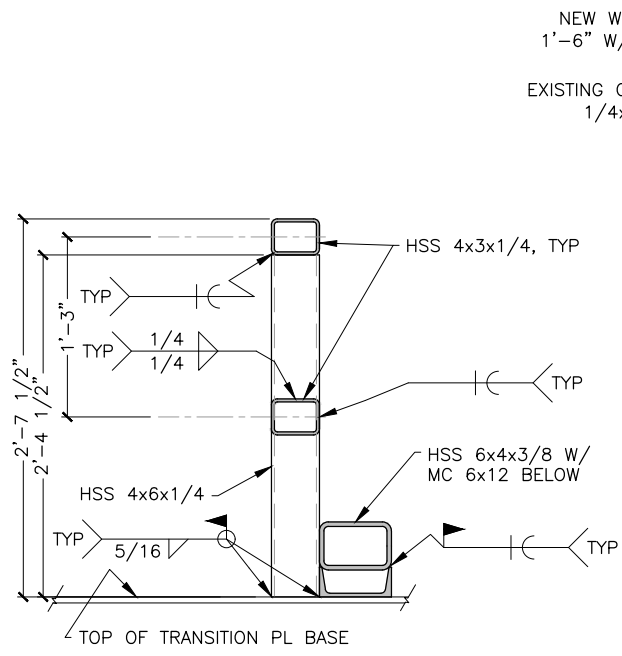


2 **PLAN**
LEFT SIDE RAIL & CURB

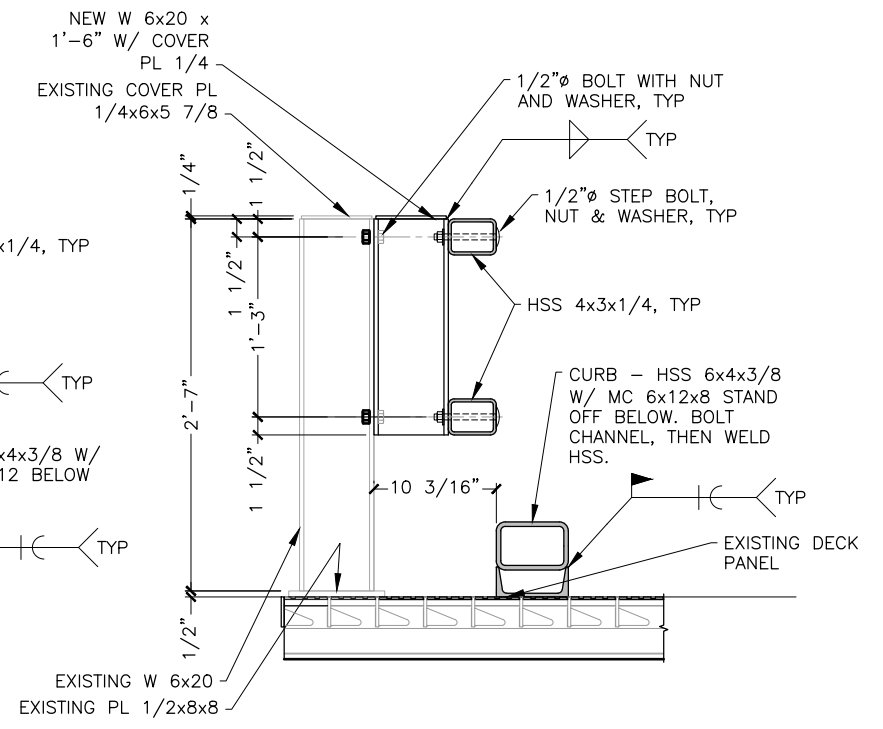
* FIELD LOCATE TO AVOID CONFLICT WITH PANEL BEARING BARS & CHANNEL BOLT



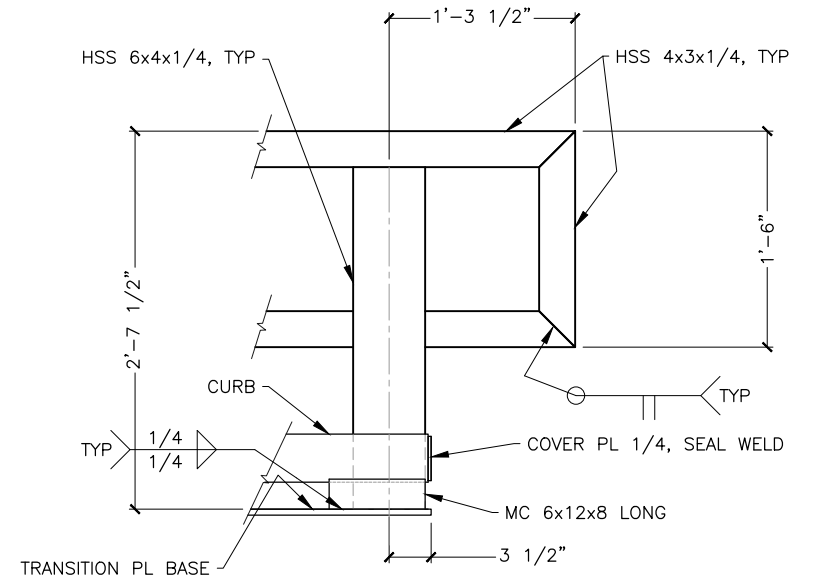
3 **PLAN**
RIGHT SIDE RAIL & CURB



A **SECTION**
SIDE RAIL & CURB



B **SECTION**
RIGHT SIDE RAIL & CURB



C **ELEVATION**
RAIL END, SIMILAR BOTH SIDES

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



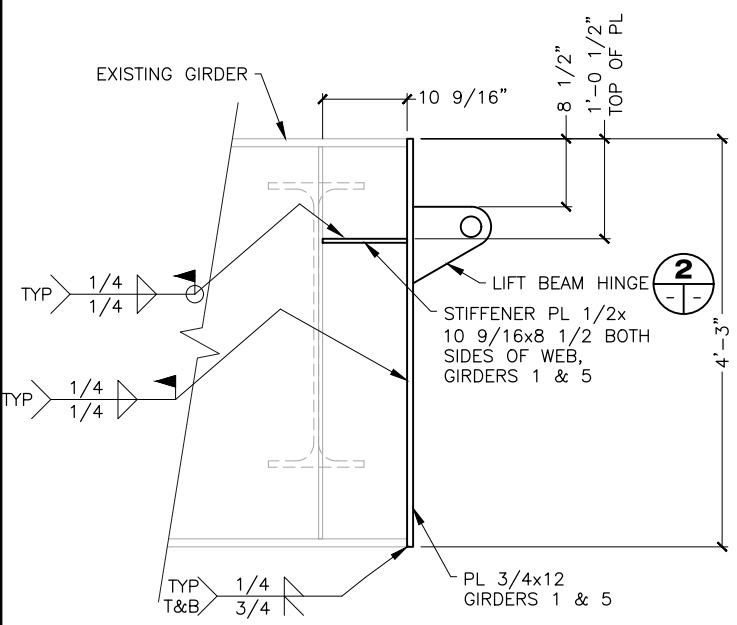
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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TRANSFER BRIDGE SEAWARD END MODIFICATIONS

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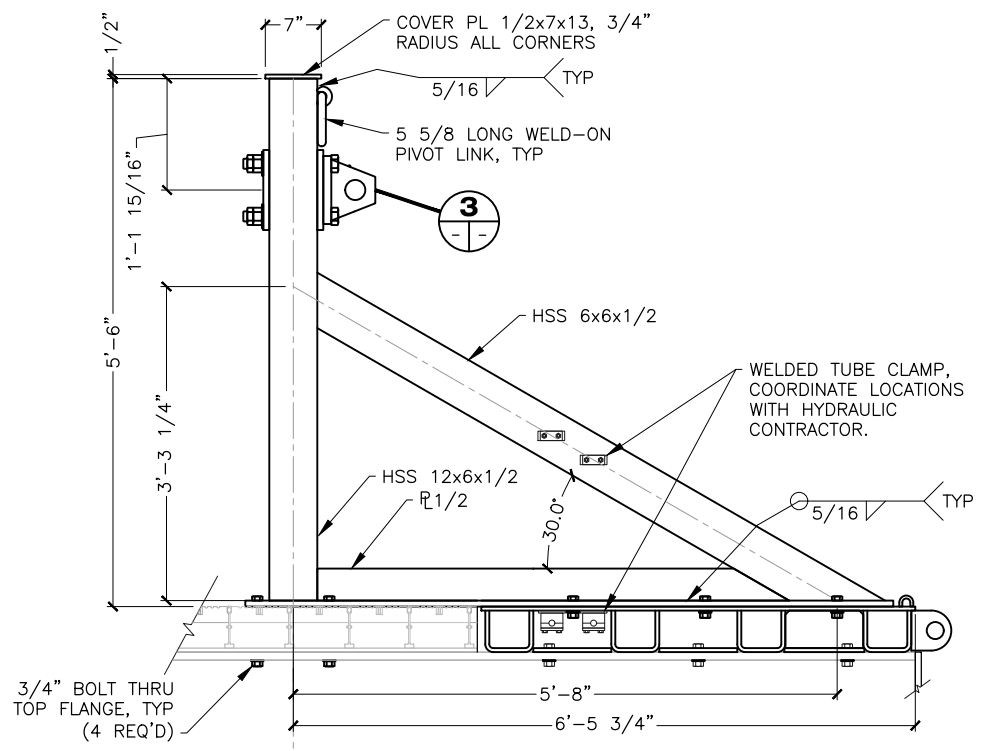
3/18/2019

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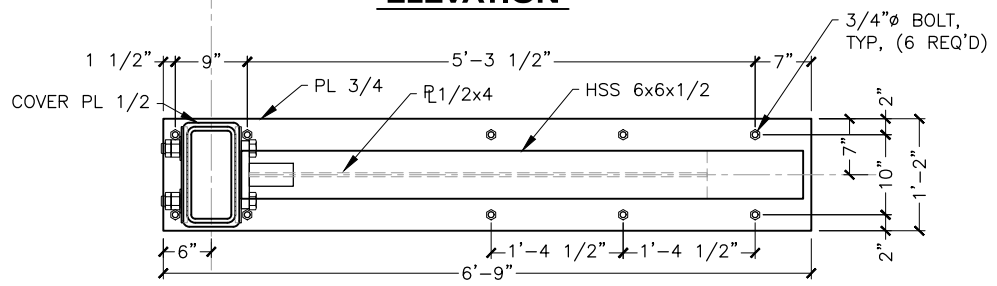
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	321	145



1 SIDE VIEW
BRIDGE END PL

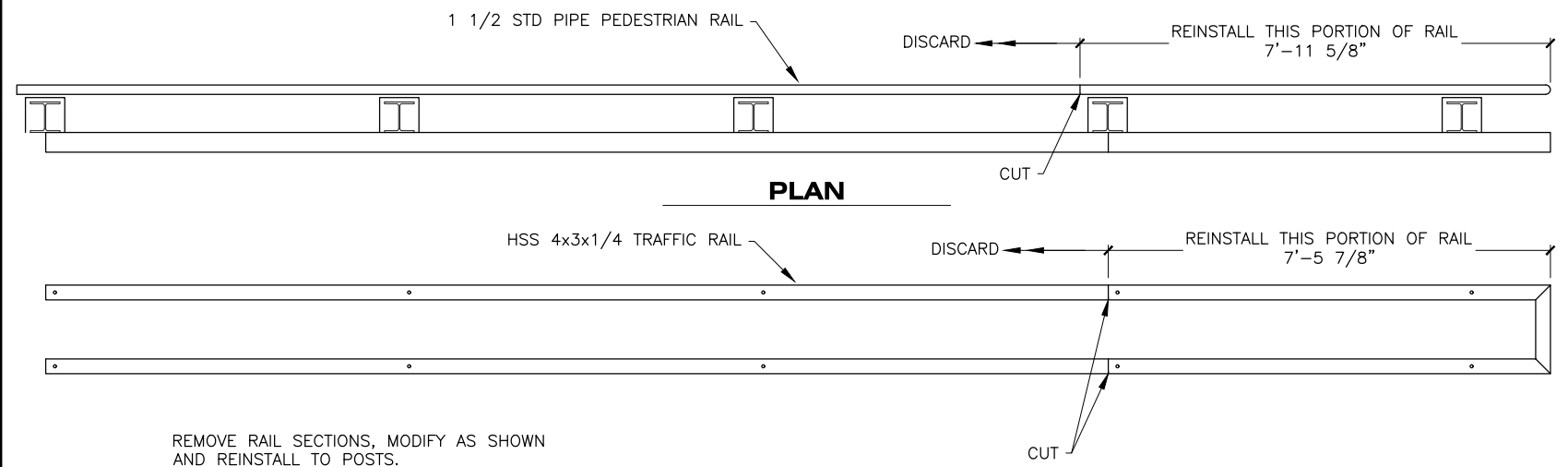


ELEVATION



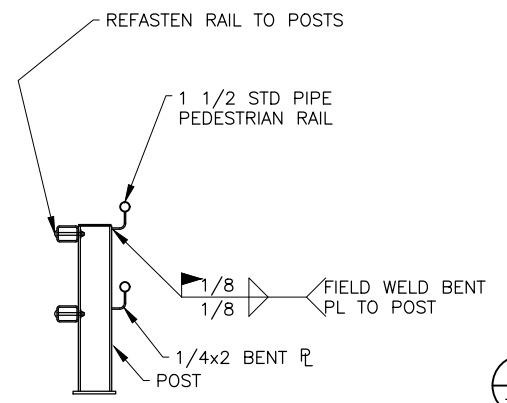
PLAN

7 HYDRAULIC CYLINDER MOUNTING FRAME ASSEMBLY

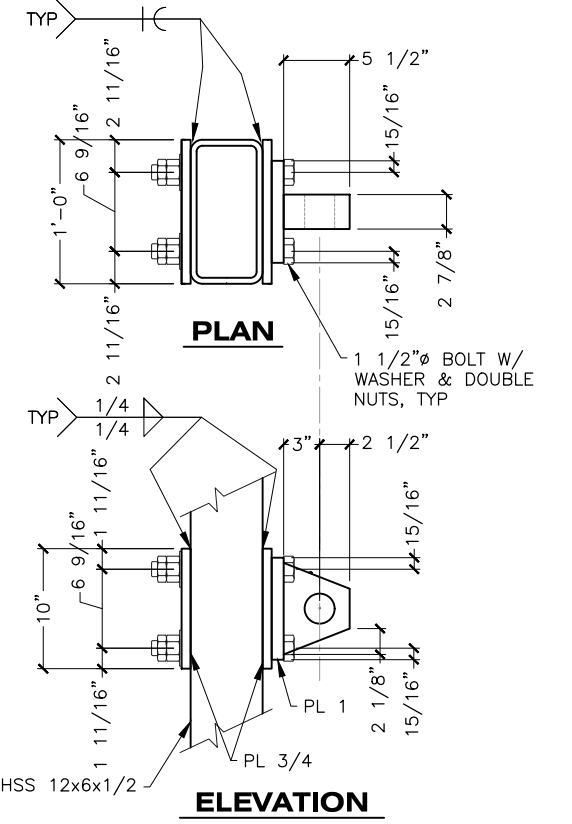


ELEVATION

4 DETAIL
TRAFFIC/PEDESTRIAN RAIL



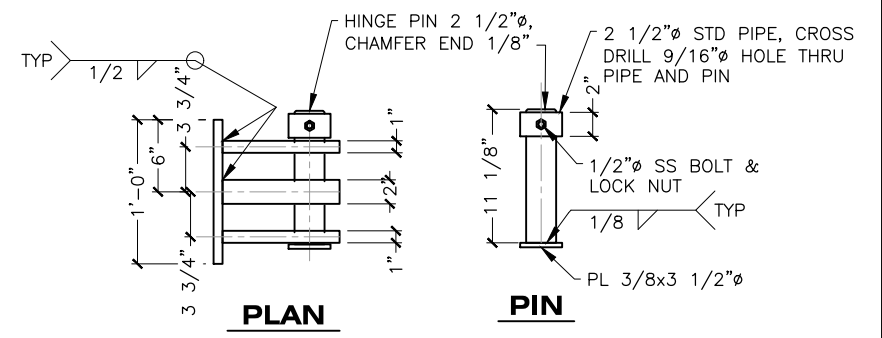
SECTION



PLAN

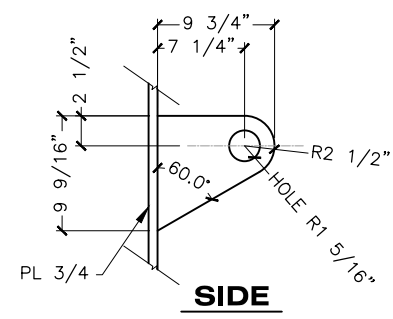
ELEVATION

3 CYLINDER MOUNT



PLAN

PIN



SIDE

2 BRIDGE TO LIFT BEAM HINGE

REMOVE RAIL SECTIONS, MODIFY AS SHOWN AND REINSTALL TO POSTS.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



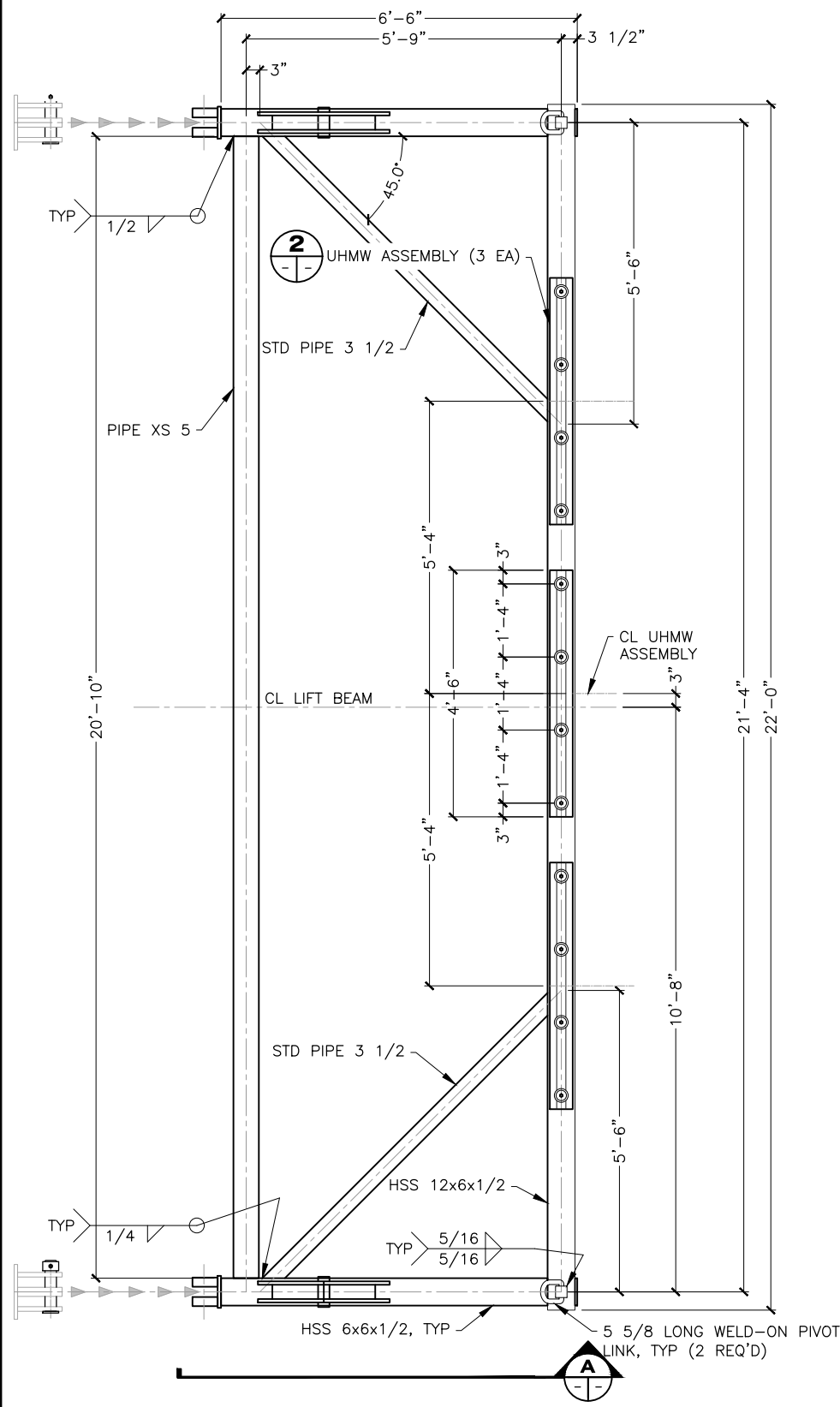
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763
GUSTAVUS FERRY TERMINAL IMPROVEMENTS
TRANSFER BRIDGE SEAWARD END MODIFICATIONS

HH 10/01/2024

3/18/2019

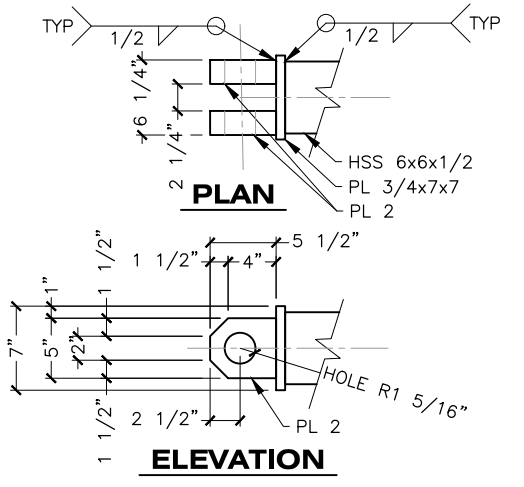
FILE: q:\us\68128\WF\PLANSET\318-325 - TRANSFER BRIDGE MODIFICATIONS.dwg DATE: 3/18/2019 14:06 LAYOUT: 322 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	322	145

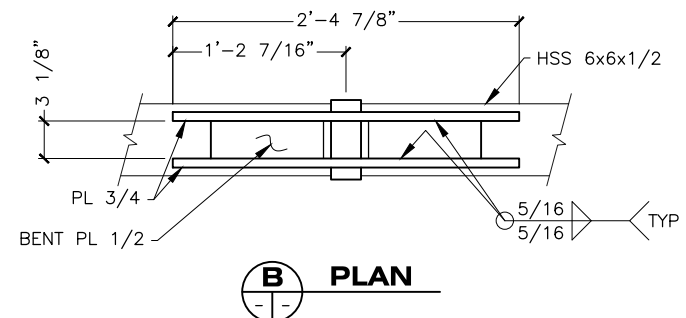


PLAN

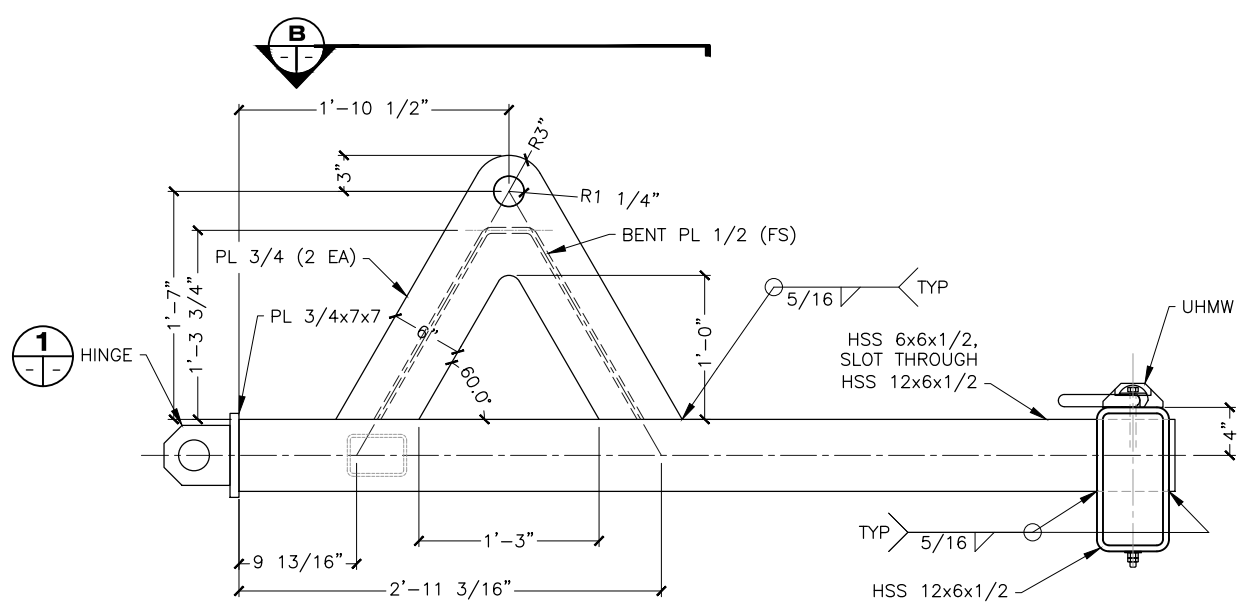
10 LIFT BEAM ASSEMBLY



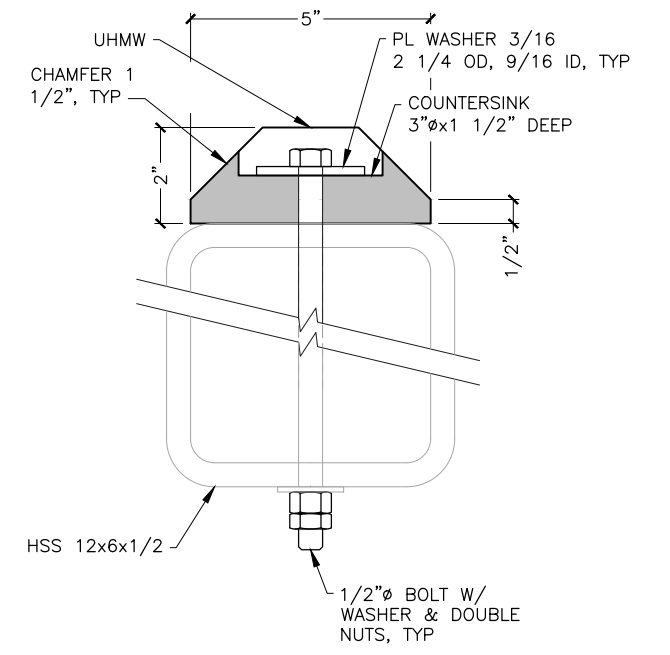
1 LIFT BEAM HINGE



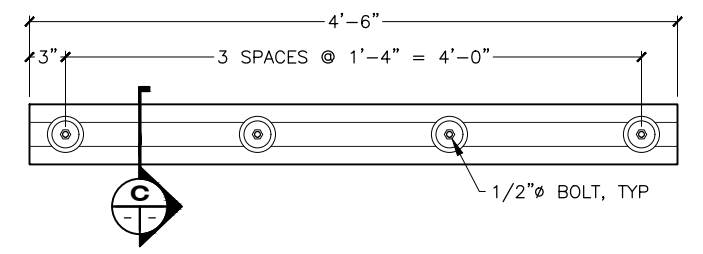
B PLAN



A SIDE ELEVATION



C SECTION



2 UHMW ASSEMBLY



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763
GUSTAVUS FERRY TERMINAL IMPROVEMENTS
TRANSFER BRIDGE SEAWARD END MODIFICATIONS

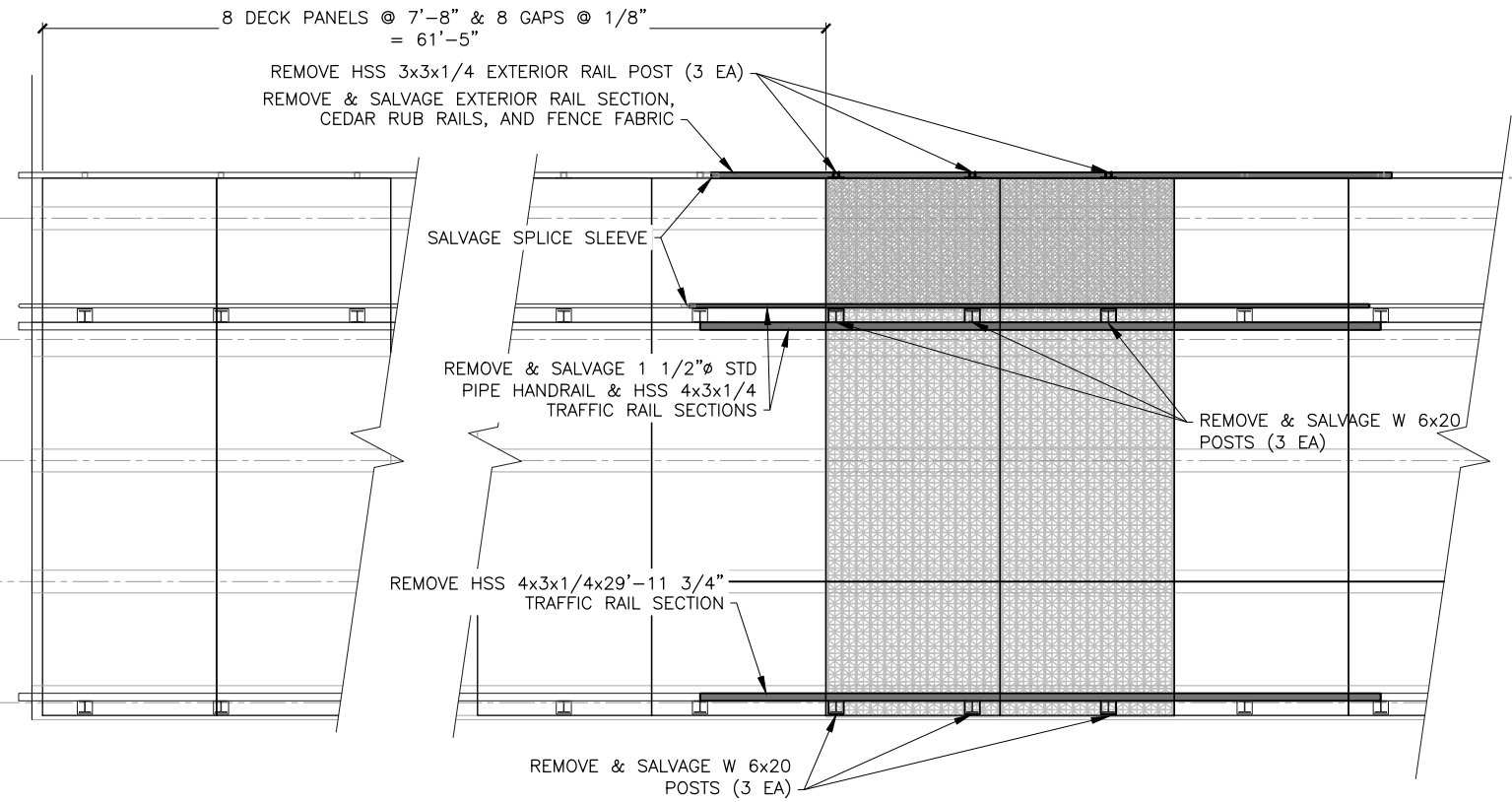
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

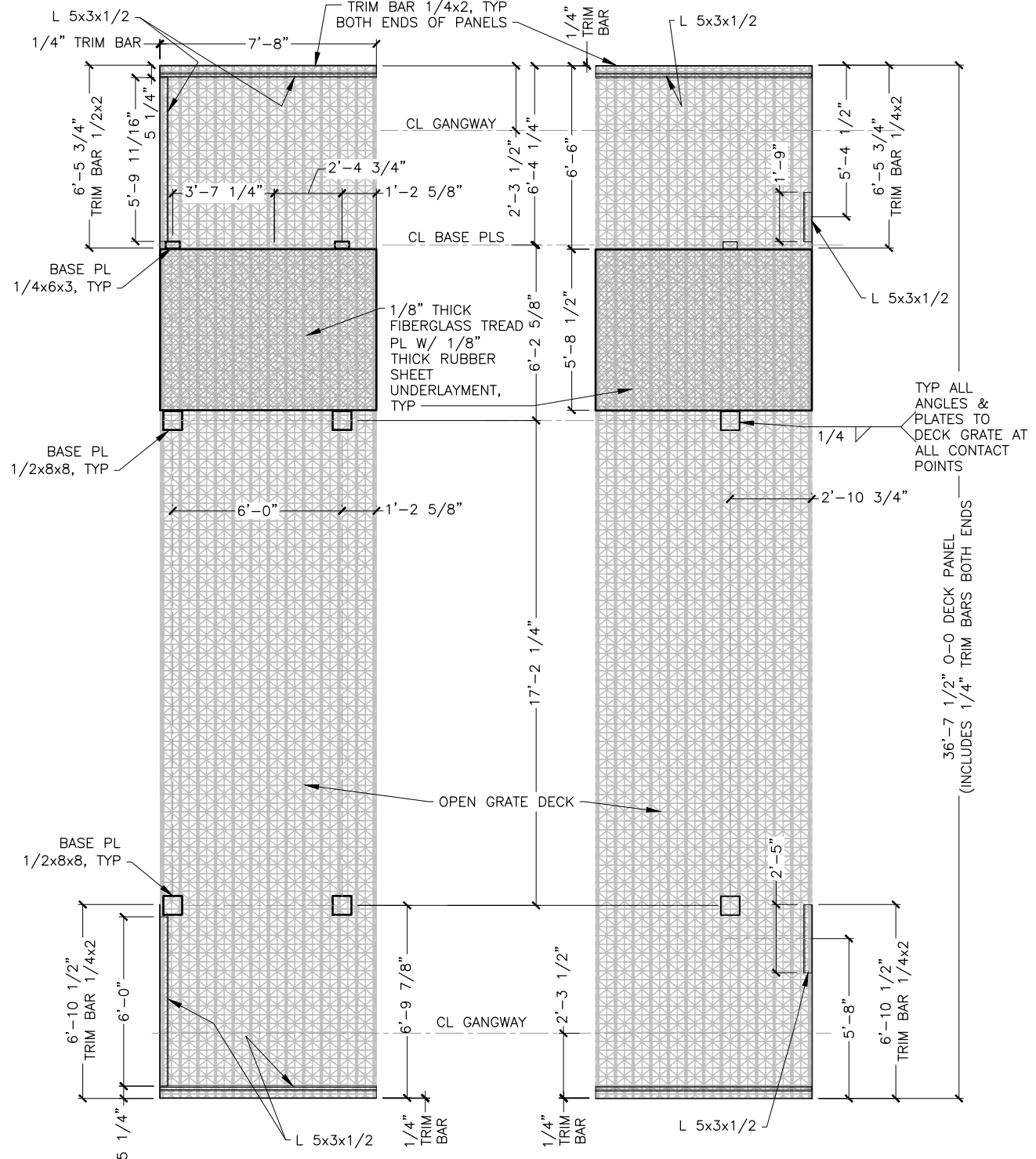
HH 10/01/2024

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 DATE: 3/18/2019 14:06 LAYOUT: 323
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	323	145

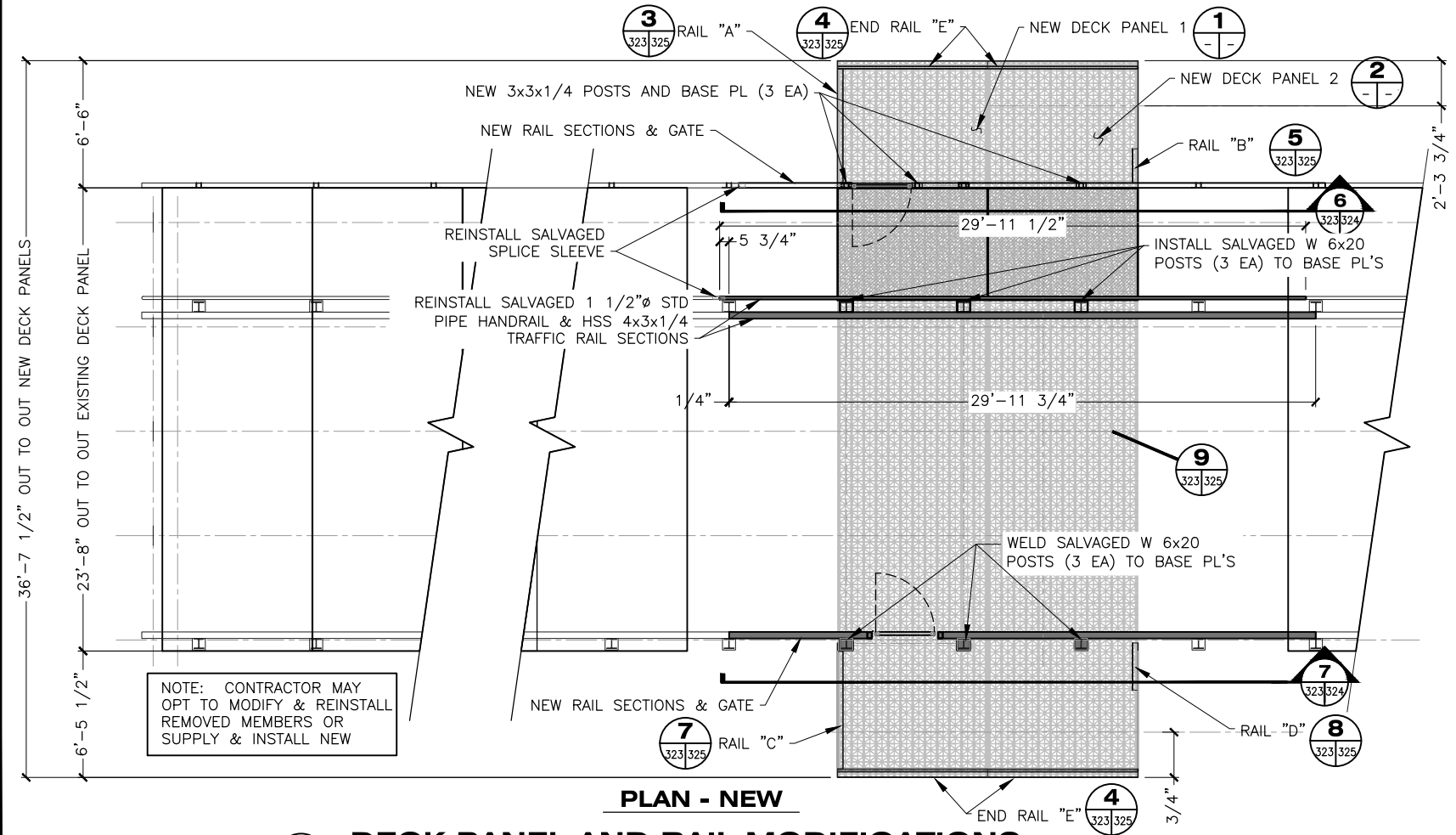


PLAN - EXISTING



1
PLAN
NEW DECK PANEL 1

2
PLAN
NEW DECK PANEL 2



PLAN - NEW

10 DECK PANEL AND RAIL MODIFICATIONS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

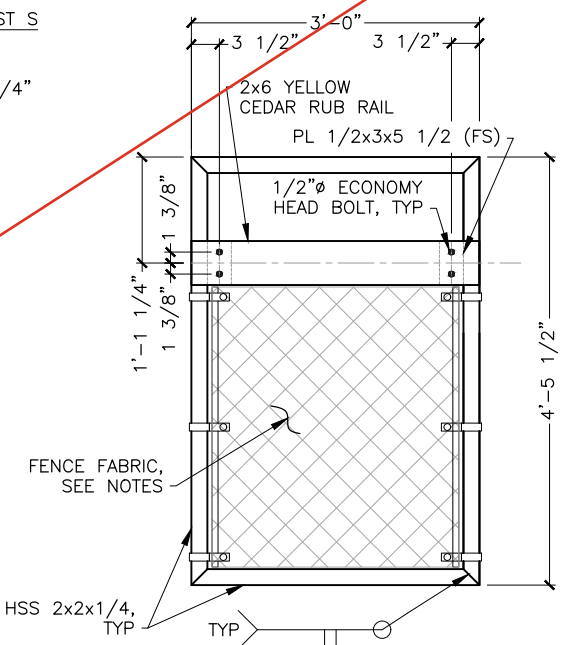
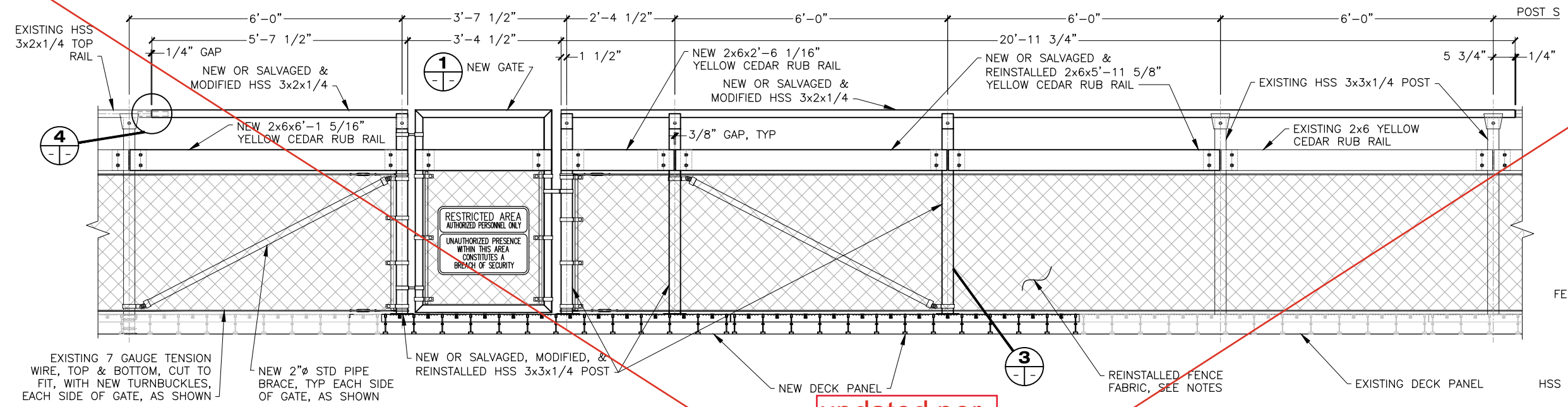
TRANSFER BRIDGE
ACCESS GANGWAY LANDINGS

HH 10/01/2024

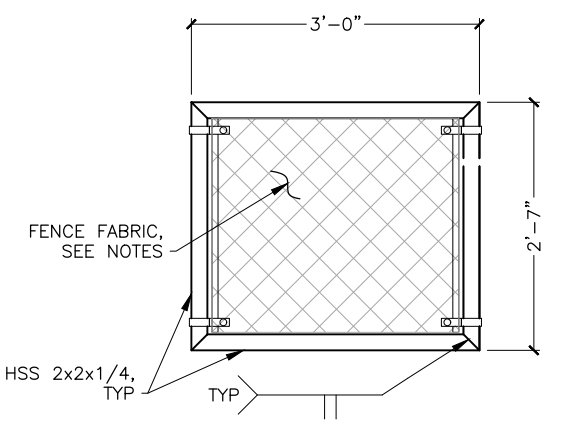
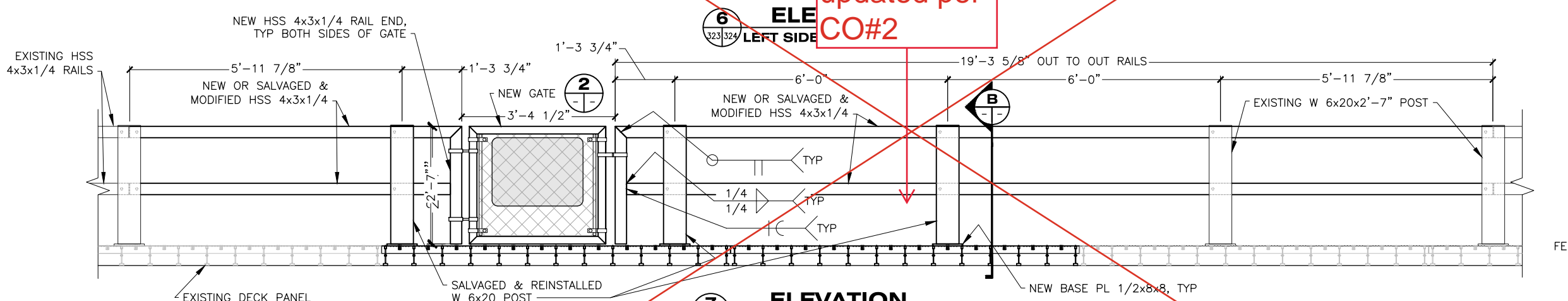
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	324	145

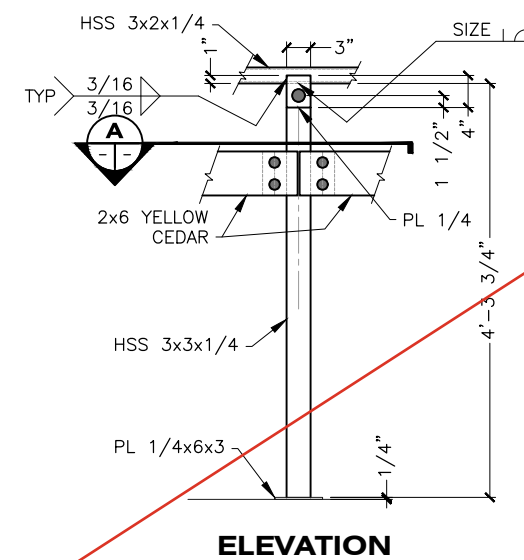
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 DATE: 3/18/2019 14:06 LAYOUT: 324
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



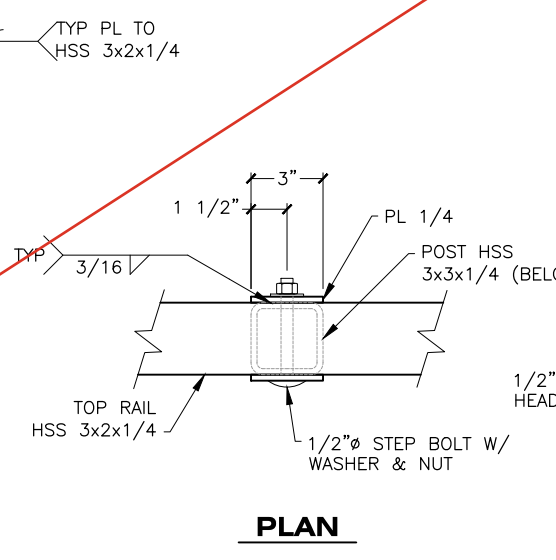
1 ELEVATION GATE



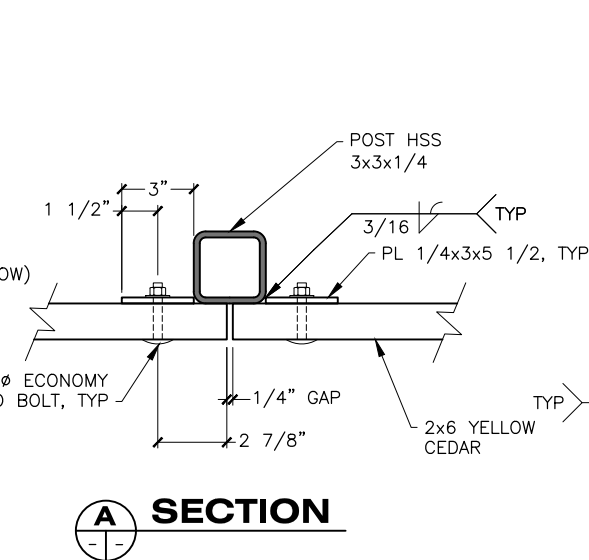
2 ELEVATION GATE



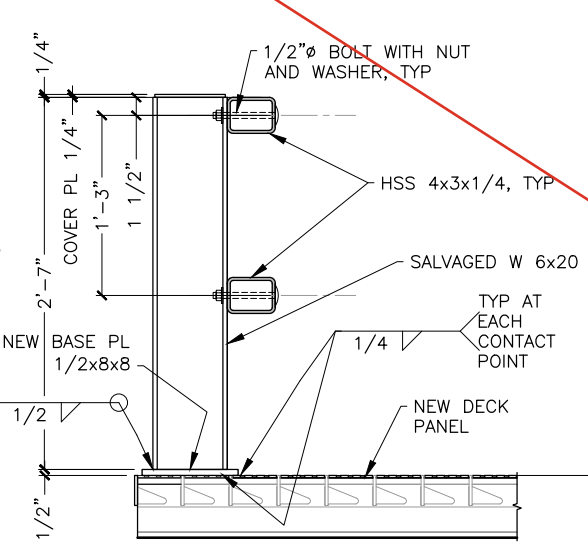
ELEVATION



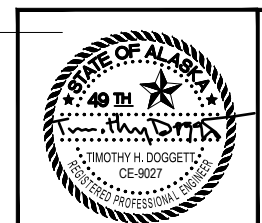
PLAN



A SECTION



B SECTION RAILPOST



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE ACCESS GANGWAY LANDINGS

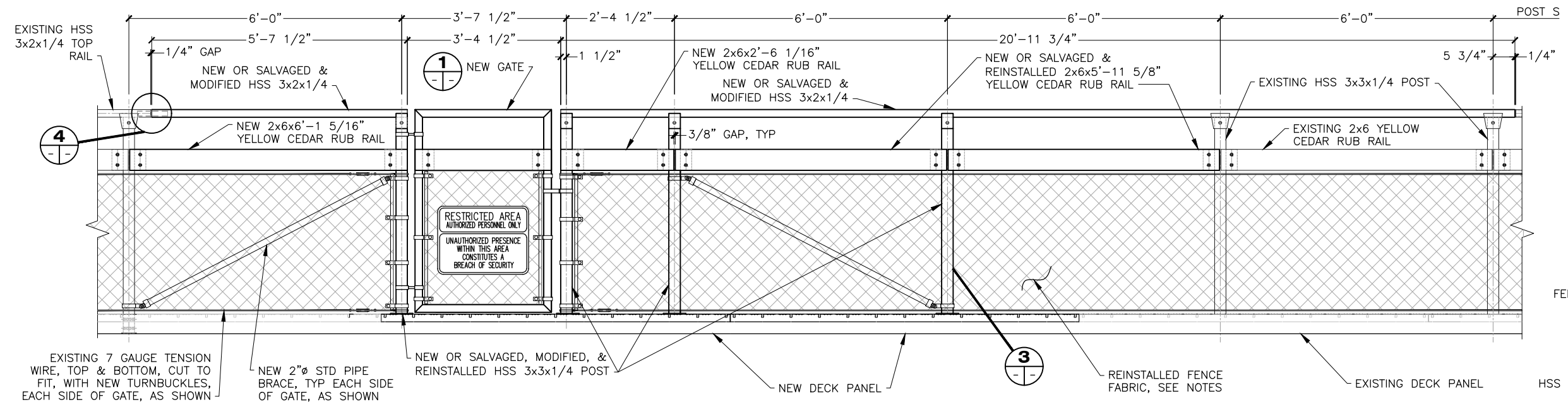
updated per CO#2

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

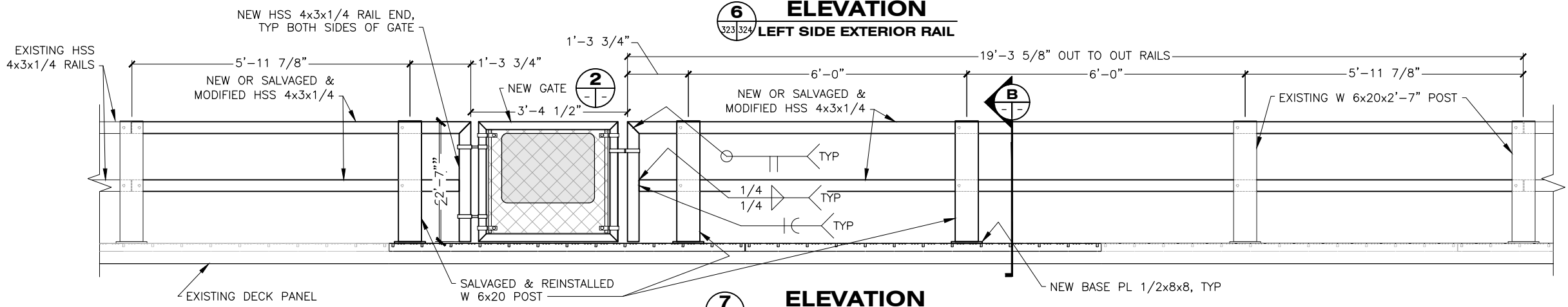
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	10/28/19	REVISED RAIL BASE PLATE CONFIGURATION	ALASKA	Z681280000/0003182	2019	324	145

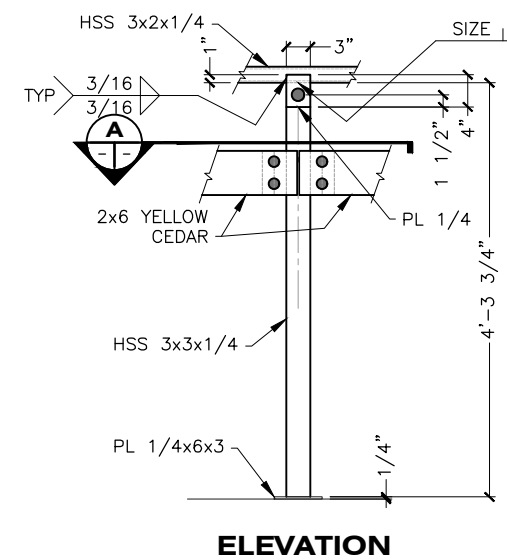
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 LAYOUT: 324
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



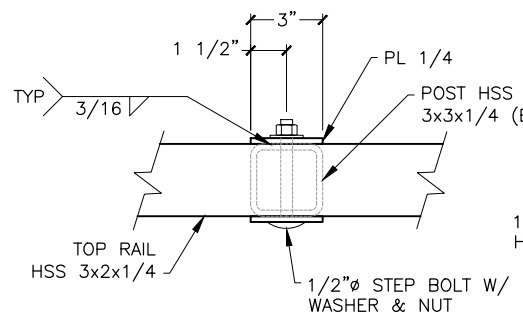
6 ELEVATION
LEFT SIDE EXTERIOR RAIL



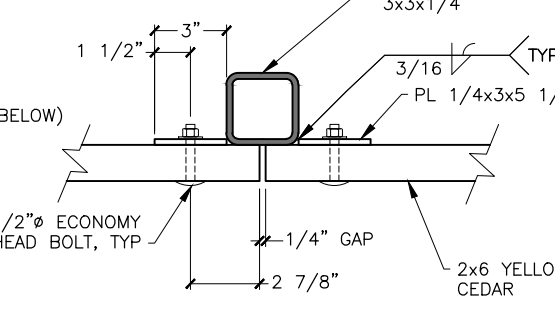
7 ELEVATION
RIGHT SIDE EXTERIOR RAIL



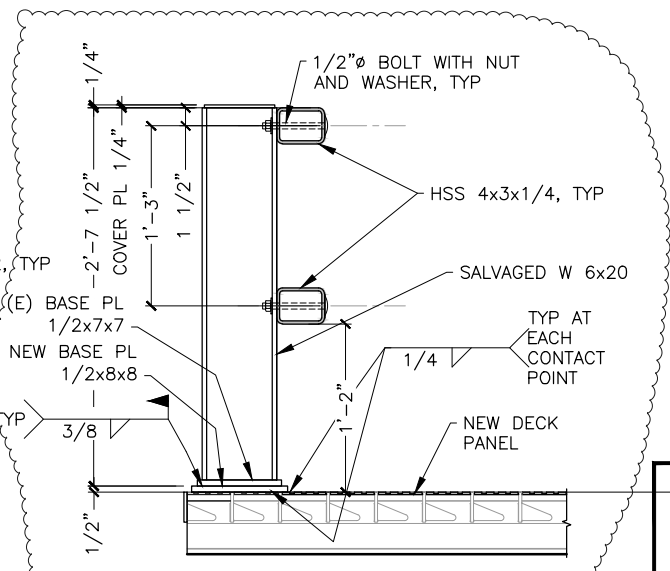
ELEVATION



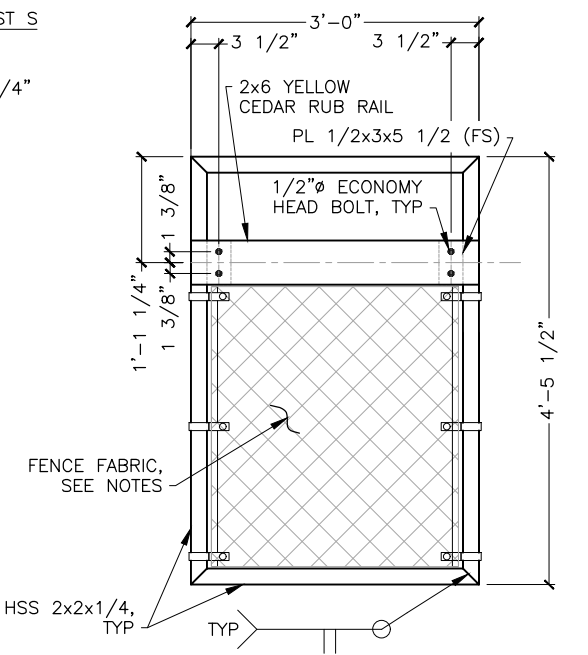
PLAN



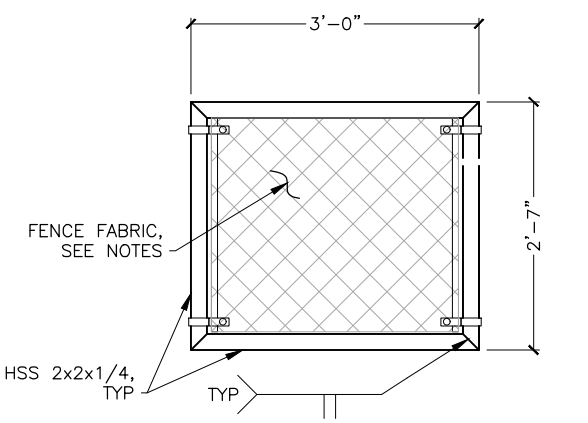
A SECTION



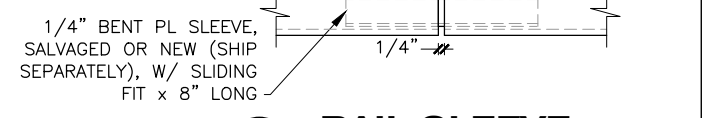
B SECTION
RAILPOST



1 ELEVATION
GATE



2 ELEVATION
GATE



4 RAIL SLEEVE

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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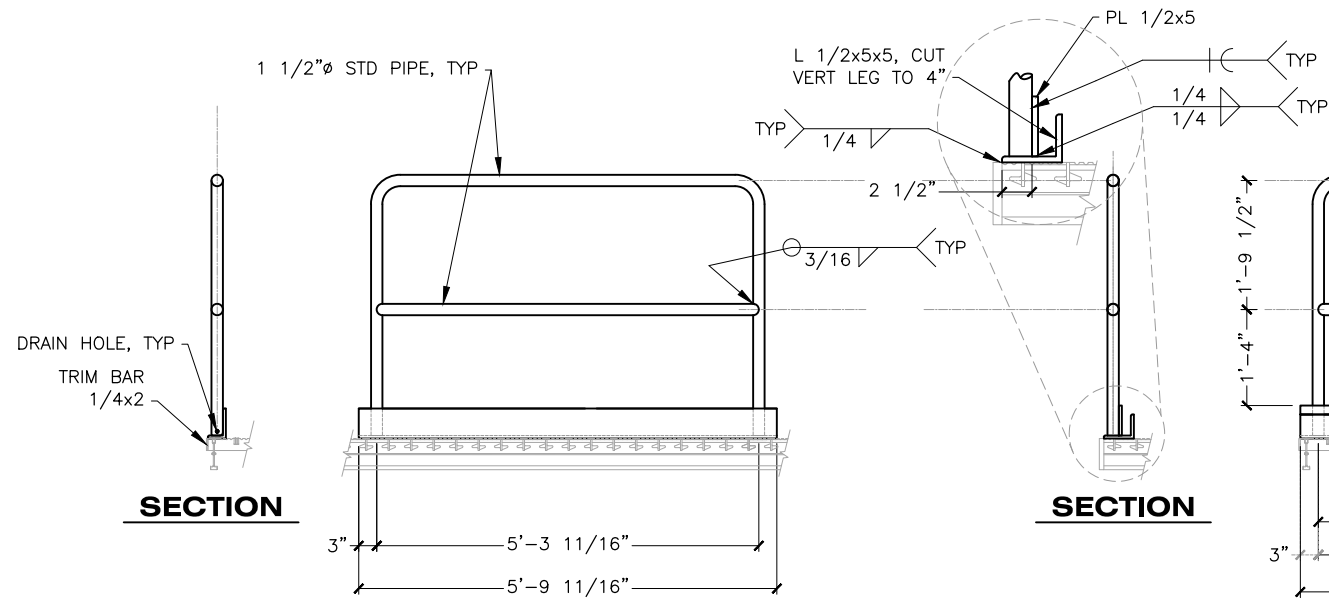
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE ACCESS GANGWAY LANDINGS

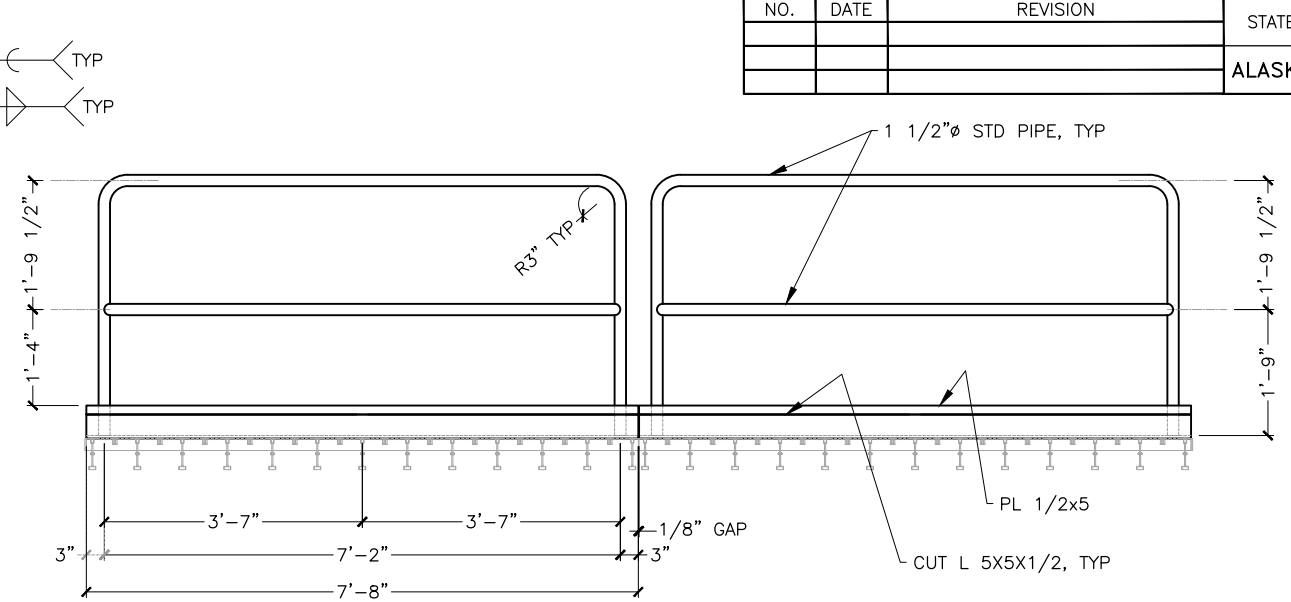
HH 10/01/2024

FILE: q:\Gus\68128\WF\PLANSET\318-325 - TRANSFER BRIDGE MODIFICATIONS.dwg DATE: 3/18/2019 14:06 LAYOUT: 325 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

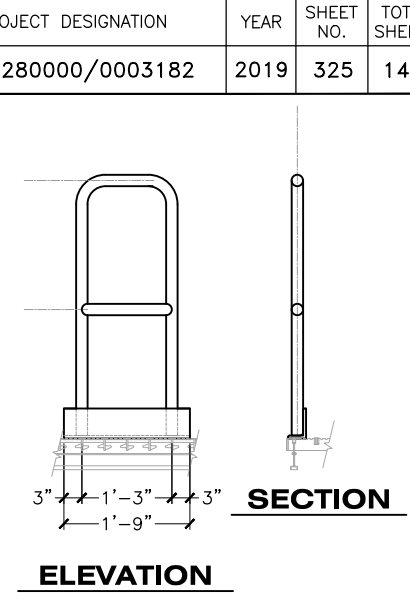
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	325	145



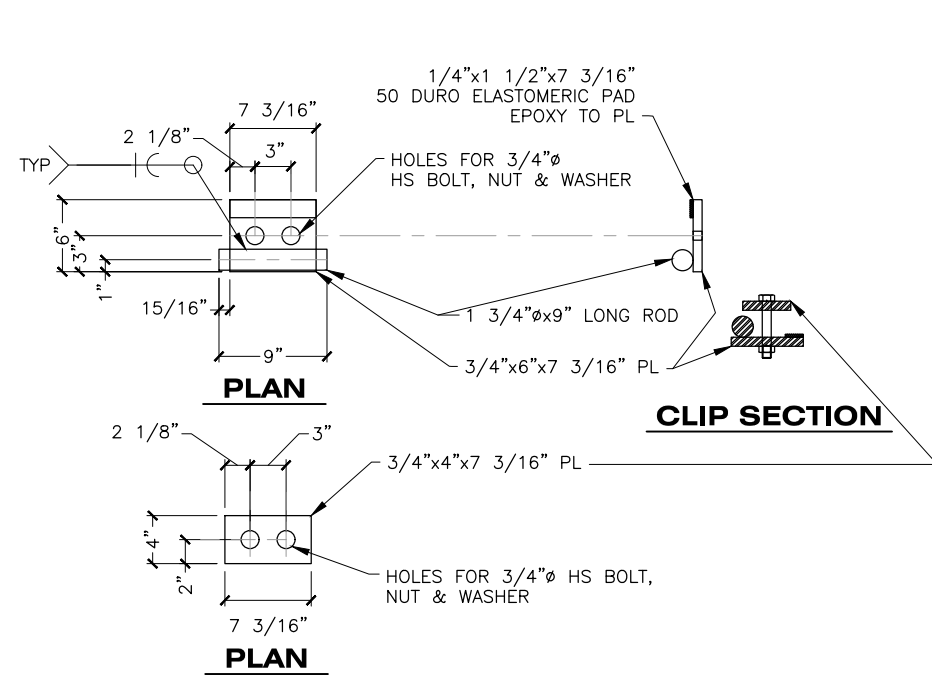
3 RAIL "A"
323 325



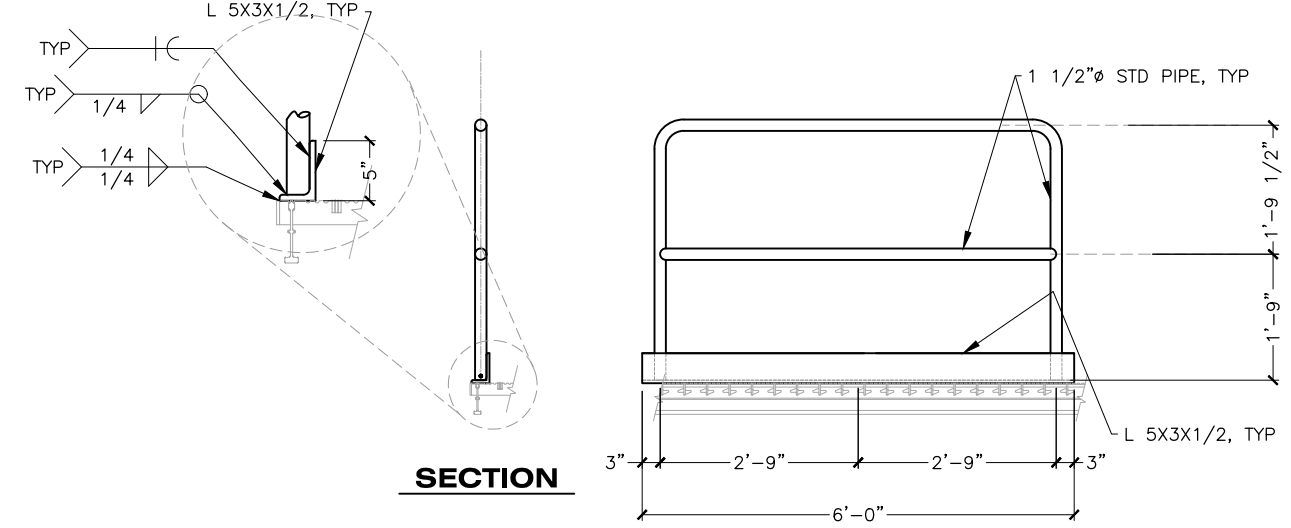
4 RAIL "E"
323 325



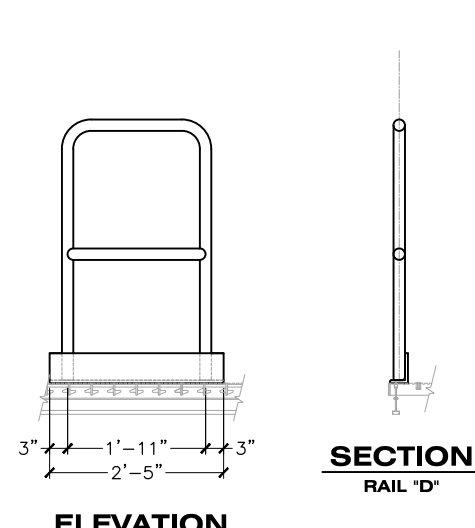
5 RAIL "B"
323 325



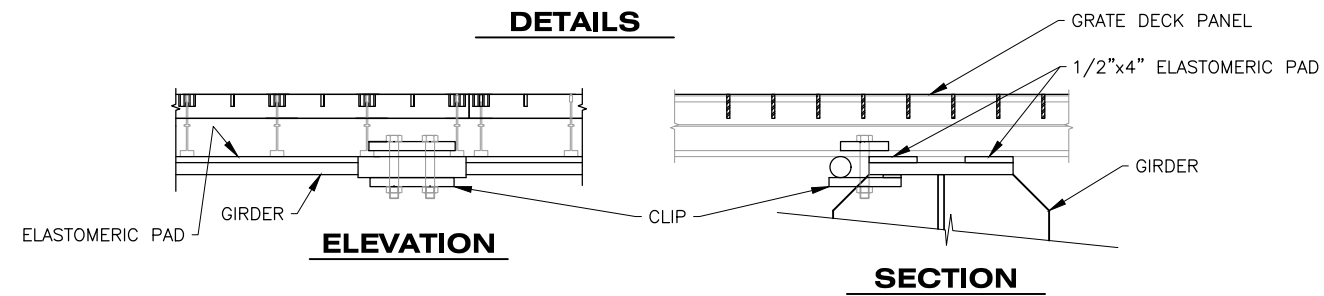
9 GRATE DECKING CLIP ASSEMBLY
(2 CLIPS PER GIRDER PER PANEL)
323 325



7 RAIL "C"
323 325



8 RAIL "D"
323 325



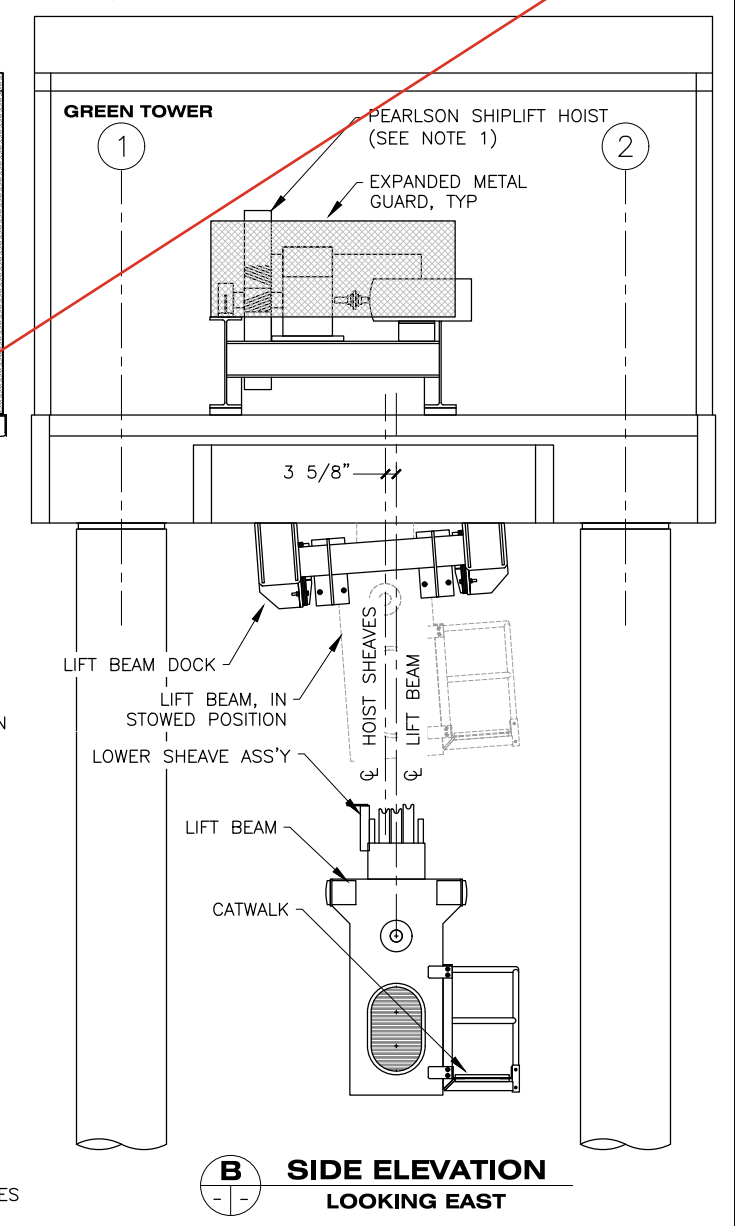
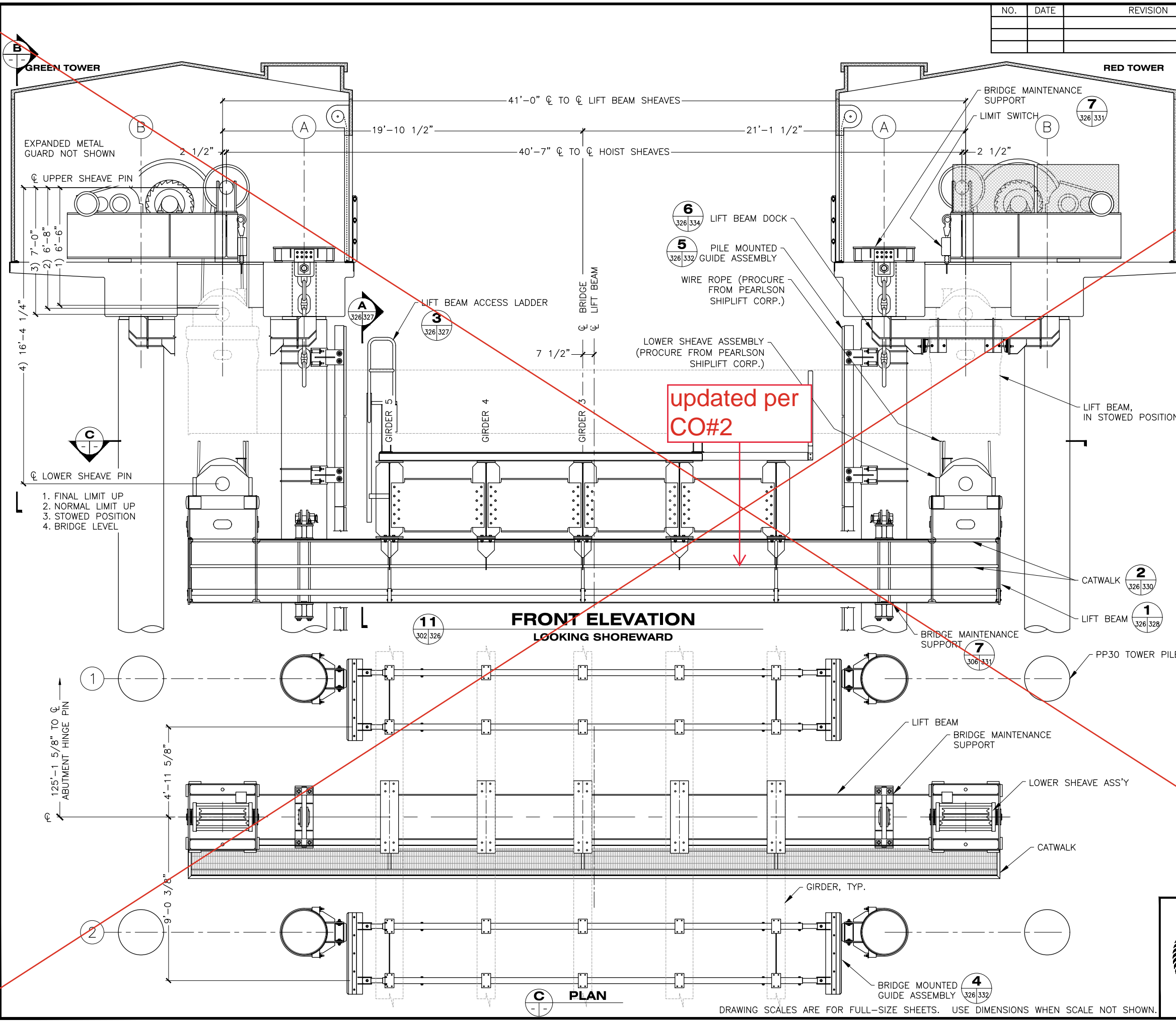
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763
GUSTAVUS FERRY TERMINAL IMPROVEMENTS
TRANSFER BRIDGE ACCESS GANGWAY LANDINGS
HH 10/01/2024

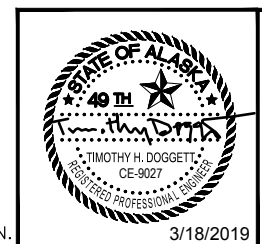
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	326	145

FILE: G:\us\68128\WF\PLANSET\326-331 - TRANSFER BRIDGE - LIFT BEAM.dwg
 DATE: 3/18/2019 14:05 LAYOUT: 326
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



NOTES:

- CONTRACTOR TO INSTALL HOISTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. A PEARLSON SHIPLIFT FIELD ENGINEER IS REQUIRED TO OVERSEE HOIST INSTALLATION AND ENSURE COMPLIANCE WITH MANUFACTURER'S PROCEDURES. FIELD ENGINEER SHALL BE ONSITE CONTINUALLY FROM BEGINNING OF INSTALLATION THROUGH FINAL TESTING.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

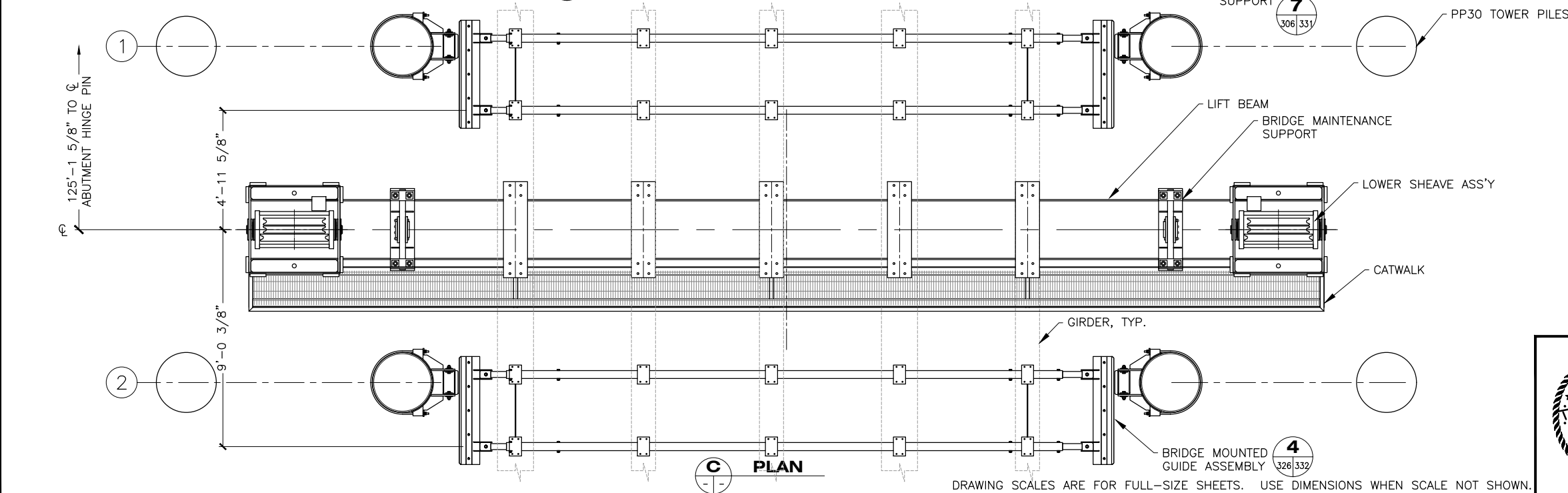
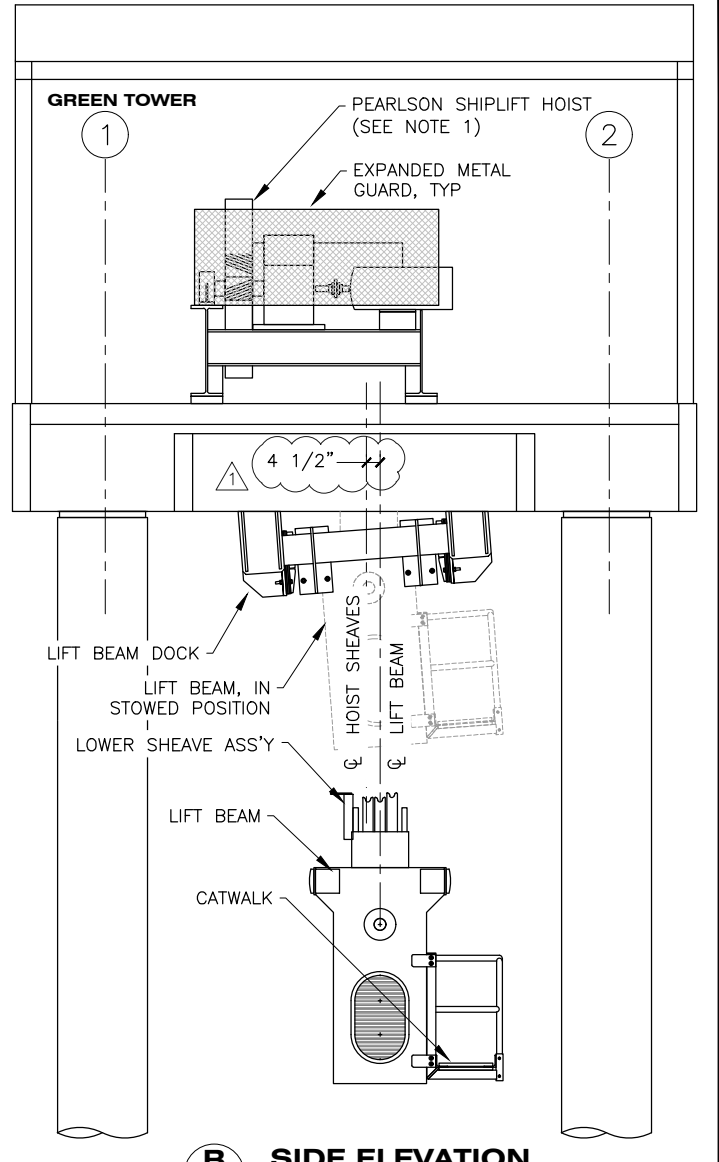
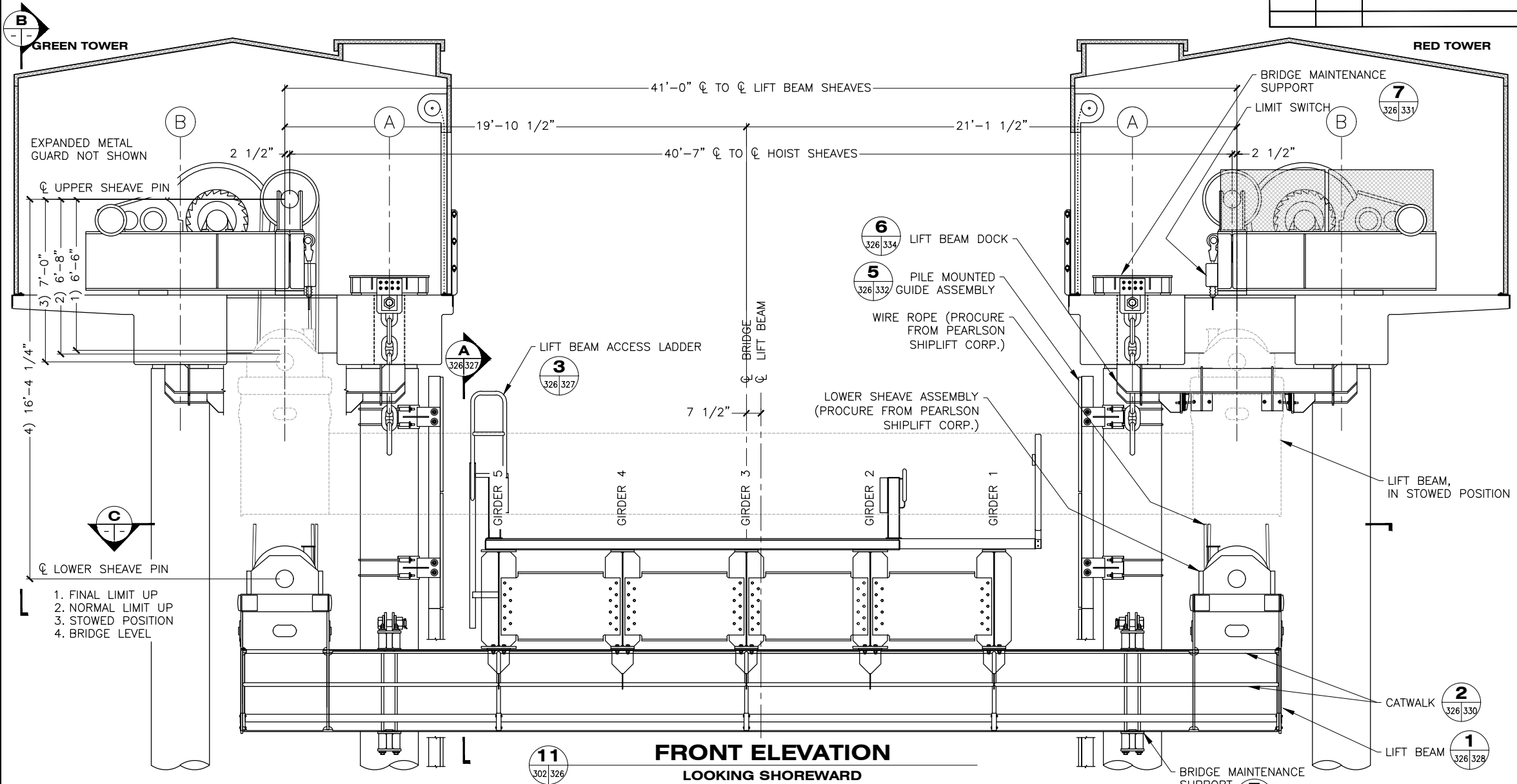
TRANSFER BRIDGE LIFT BEAM

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3/12/20	RELOCATED TOWER 0.875" SHOREWARD	ALASKA	Z681280000/0003182	2019	326	145

FILE: Q:\08128\VF\PLANSET\326-331 - TRANSFER BRIDGE - LIFT BEAM.R1.dwg
 DATE: 3/12/2020 15:00 LAYOUT: 326
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



NOTES:

- CONTRACTOR TO INSTALL HOISTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. A PEARLSON SHIPLIFT FIELD ENGINEER IS REQUIRED TO OVERSEE HOIST INSTALLATION AND ENSURE COMPLIANCE WITH MANUFACTURER'S PROCEDURES. FIELD ENGINEER SHALL BE ONSITE CONTINUALLY FROM BEGINNING OF INSTALLATION THROUGH FINAL TESTING.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

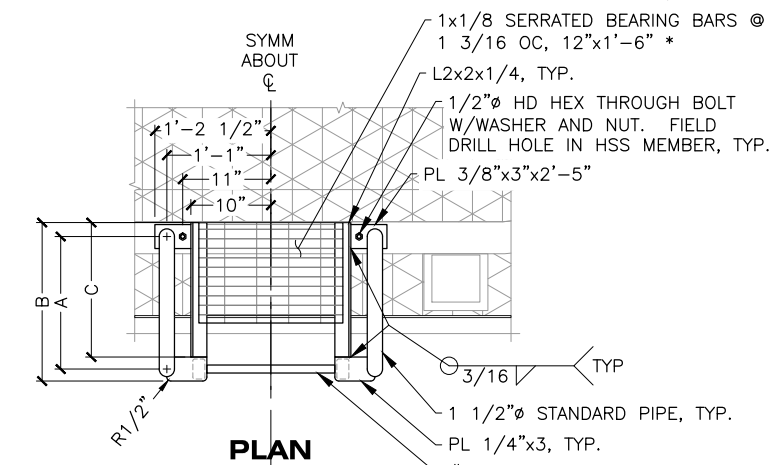
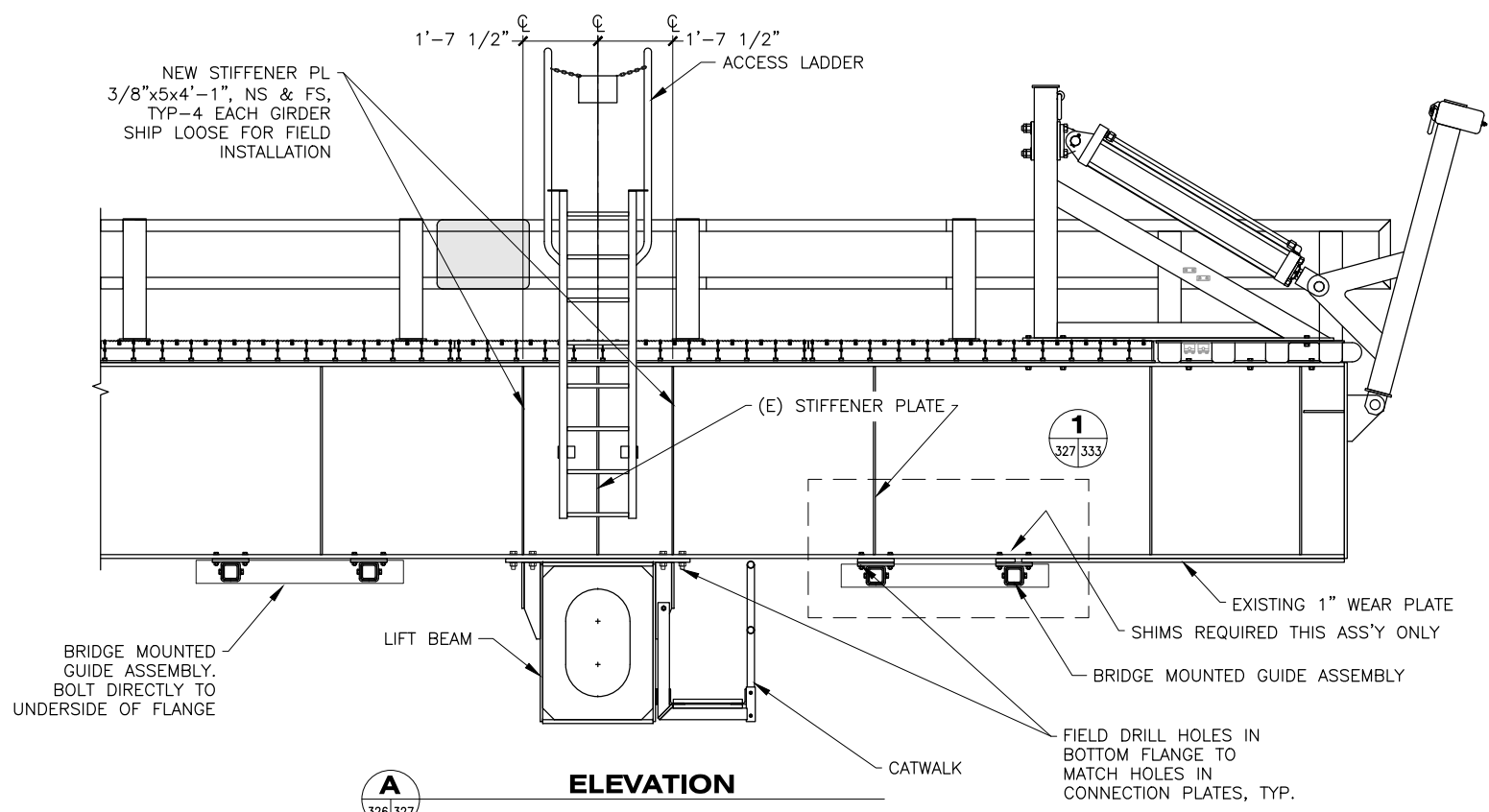
TRANSFER BRIDGE LIFT BEAM

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HH 10/01/2024

FILE: G:\us\68128\WF\PLANSET\326-331 - TRANSFER BRIDGE - LIFT BEAM.dwg DATE: 3/18/2019 14:05 LAYOUT: 327 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

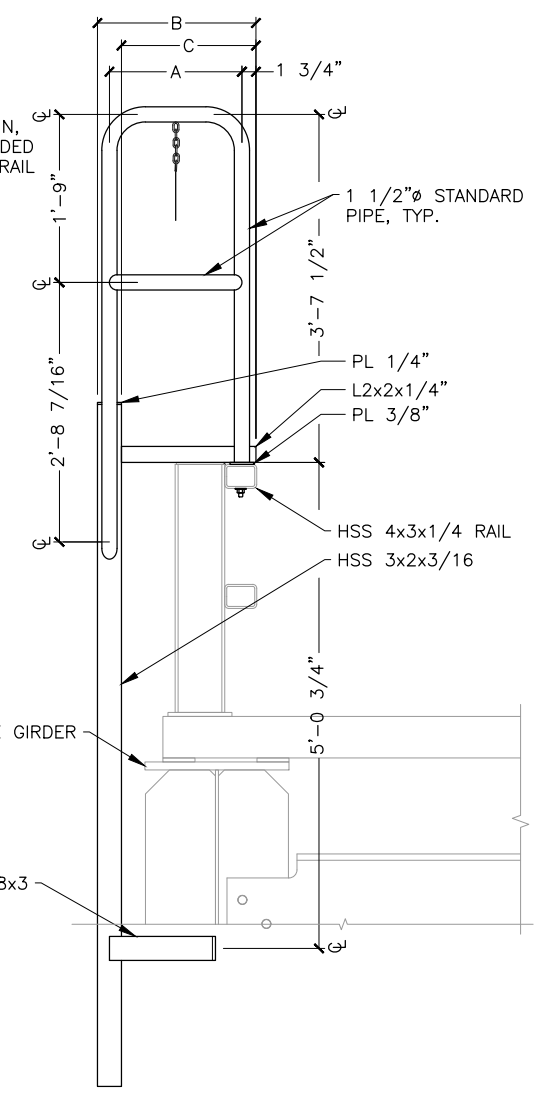
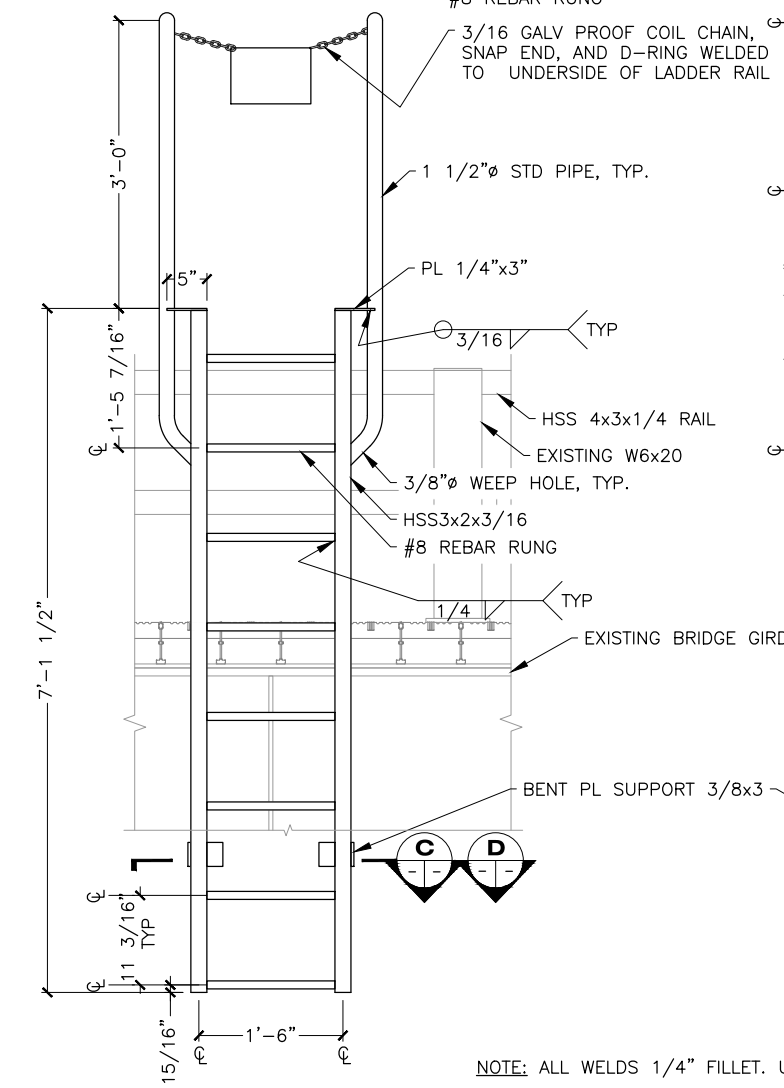
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	327	145



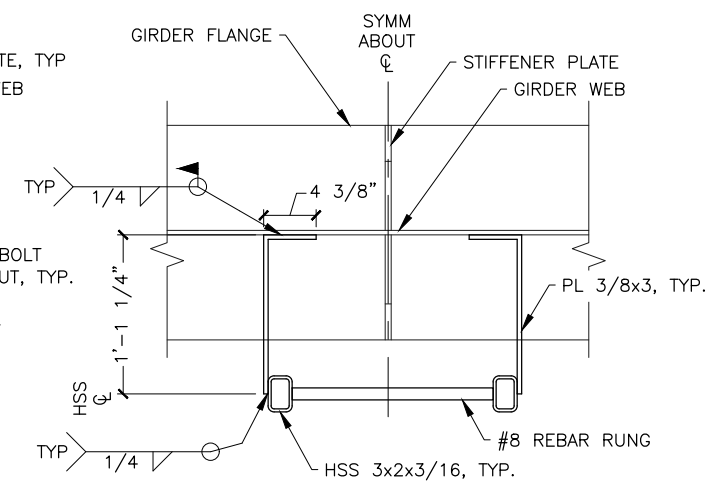
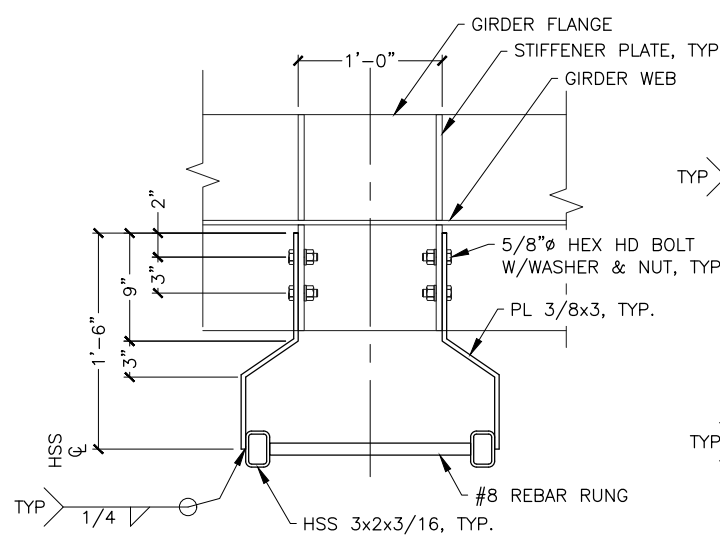
LADDER DIMENSIONS

DIMENSION	LIFTBEAM ACCESS	ABUTMENT ACCESS
A	1'-4 9/16"	1'-10"
B	1'-7 13/16"	2'-1 1/4"
C	1'-4 13/16"	1'-10 1/4"

* FILLET WELD GRATING TO ANGLE AT FIRST, LAST AND EVERY FOURTH BEARING BAR.



NOTE: ALL WELDS 1/4" FILLET. U.O.N.



3 ACCESS LADDER

326 327 3031



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS
TRANSFER BRIDGE LIFT BEAM

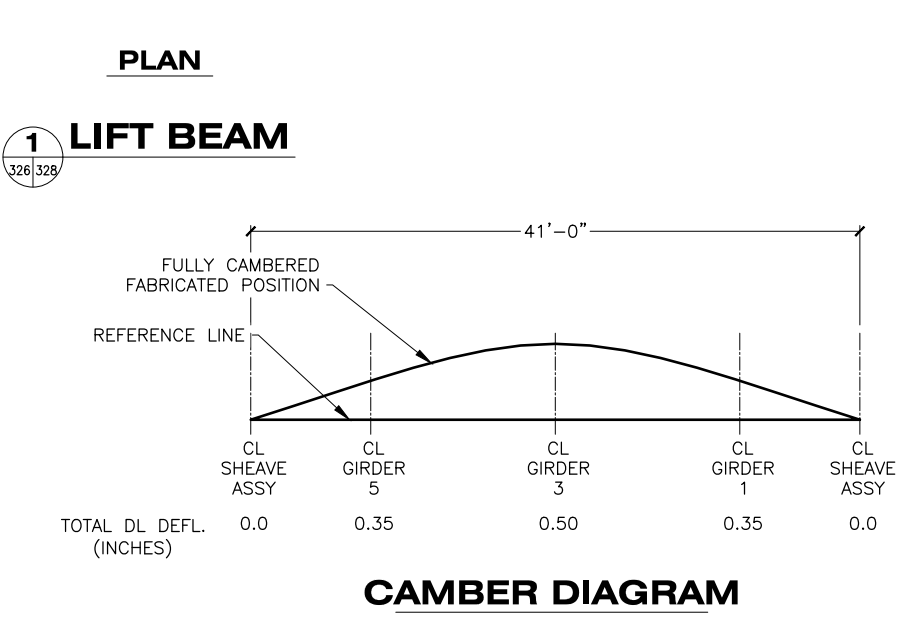
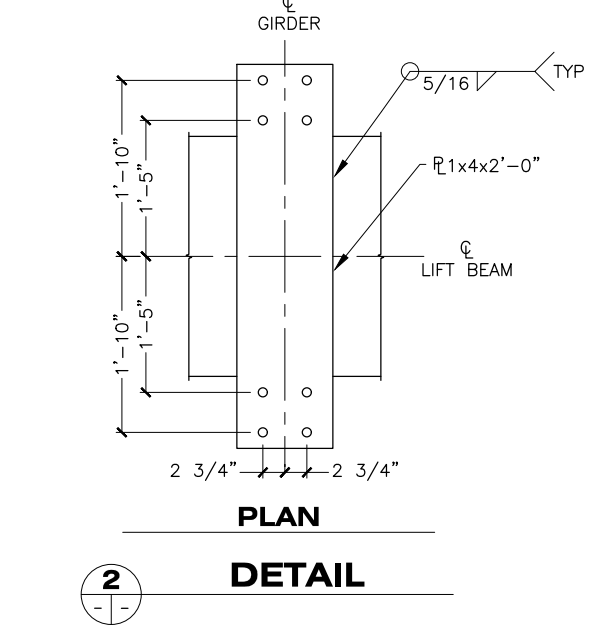
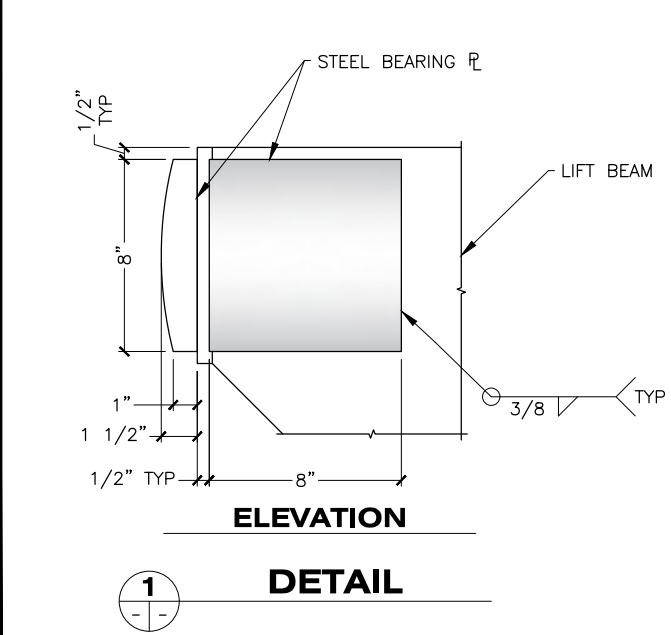
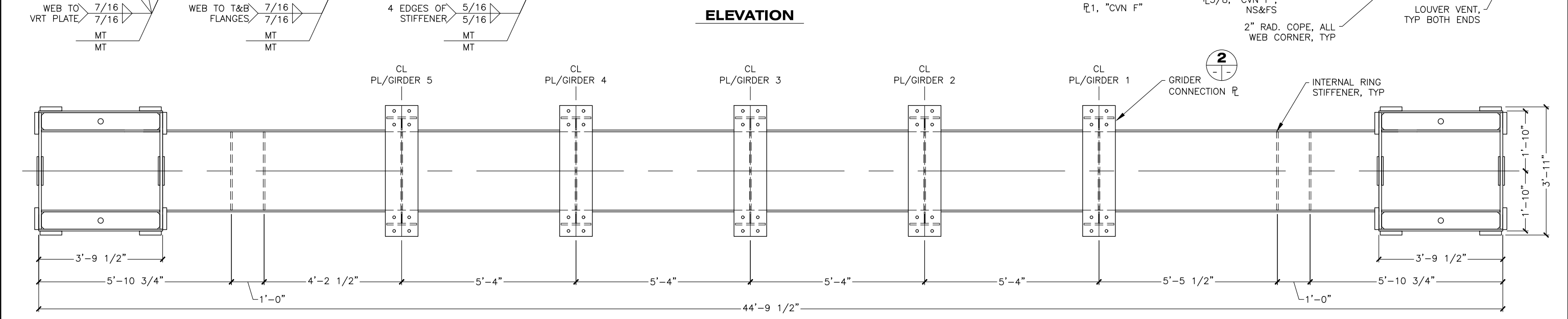
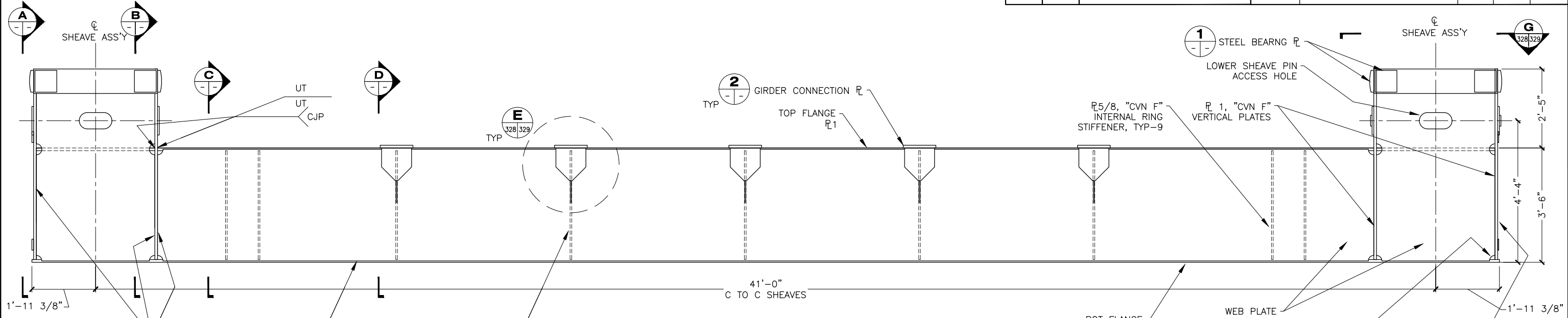
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	328	145

FILE: G:\us\68128\WF\PLANSET\326-331 - TRANSFER BRIDGE - LIFT BEAM.dwg
 DATE: 3/18/2019 14:05 LAYOUT: 328
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



- NOTE:**
- THE BRIDGE LIFT BEAM IS A FRACTURE CRITICAL MEMBER. COMPONENTS OF THE LIFT BEAM THAT ARE FRACTURE CRITICAL ARE DESIGNATED AS "CVN F" ON THE DRAWINGS. FOR THESE COMPONENTS:
 CHARPY V-NOTCH IMPACT ENERGY REQUIREMENTS SHALL BE IN ACCORDANCE WITH ASTM A709.
 - FABRICATION SHALL COMPLY WITH AWS D1.5 CLAUSE & 12.
 - CONTRACTOR SHALL PROVIDE NDT AS SPECIFIED IN AWS D1.5 CLAUSE 6 & 12.
 - NO SPLICES PERMITTED IN BOTTOM FLANGE OR WEB PLATES.
 - ESTIMATED WEIGHT = 24,000 LBS.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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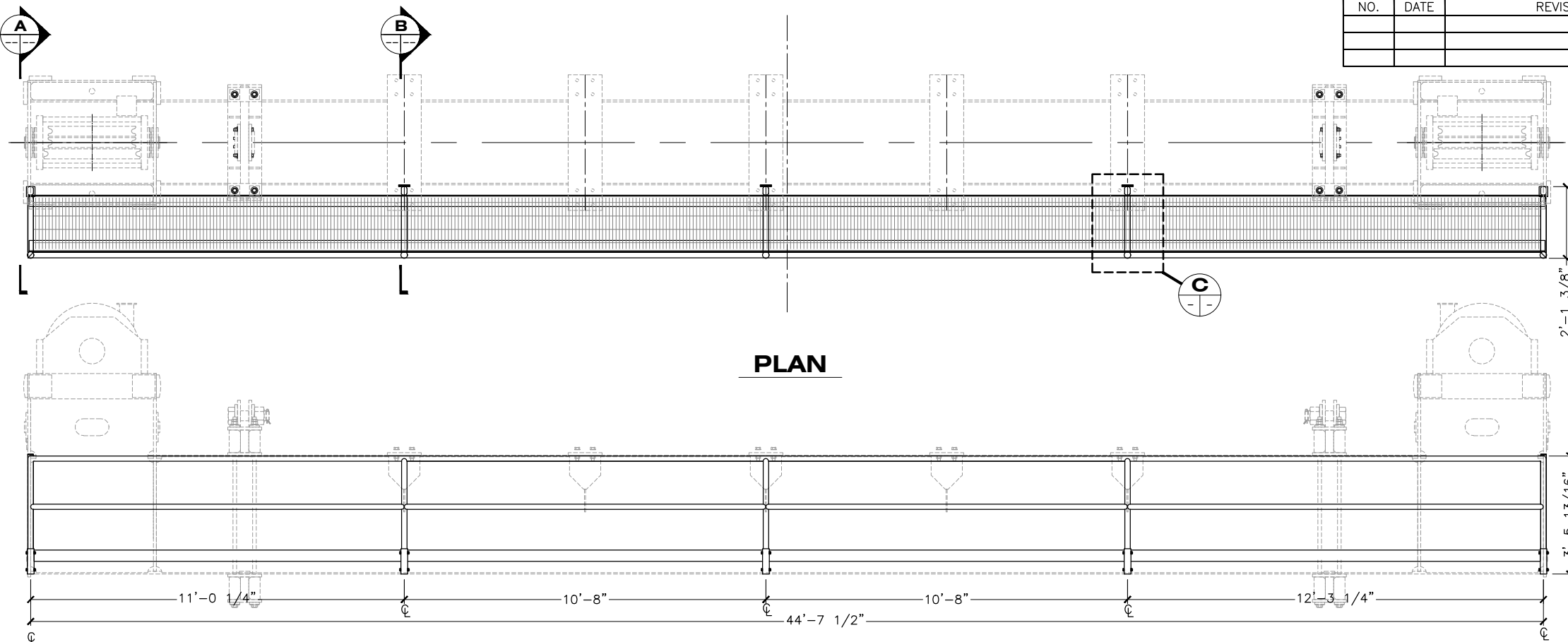
TRANSFER BRIDGE LIFT BEAM

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

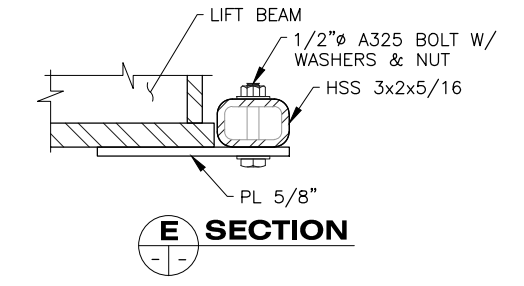
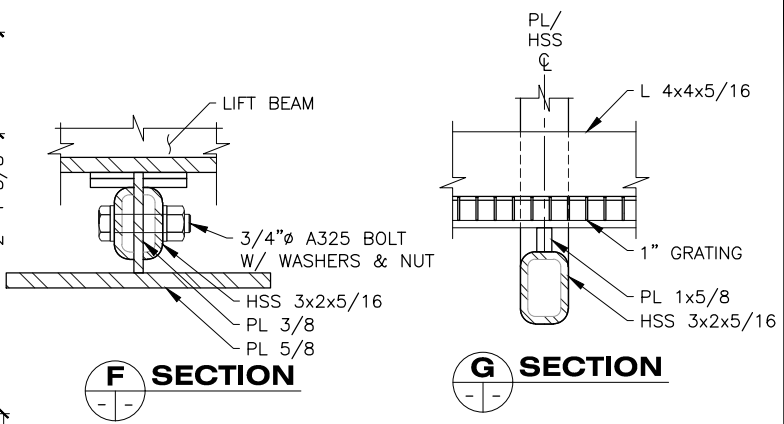
HH 10/01/2024

FILE G:\us\68128\WF\PLANSET\326-331 - TRANSFER BRIDGE - LIFT BEAM.dwg DATE 3/18/2019 14:05 LAYOUT 330 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

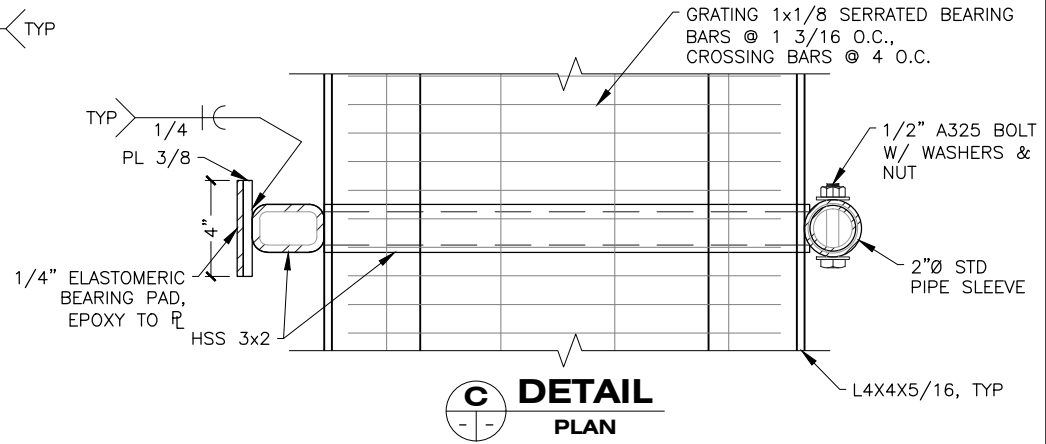
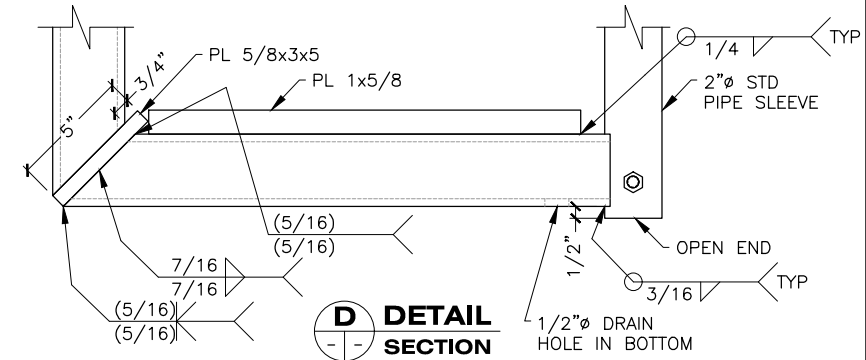
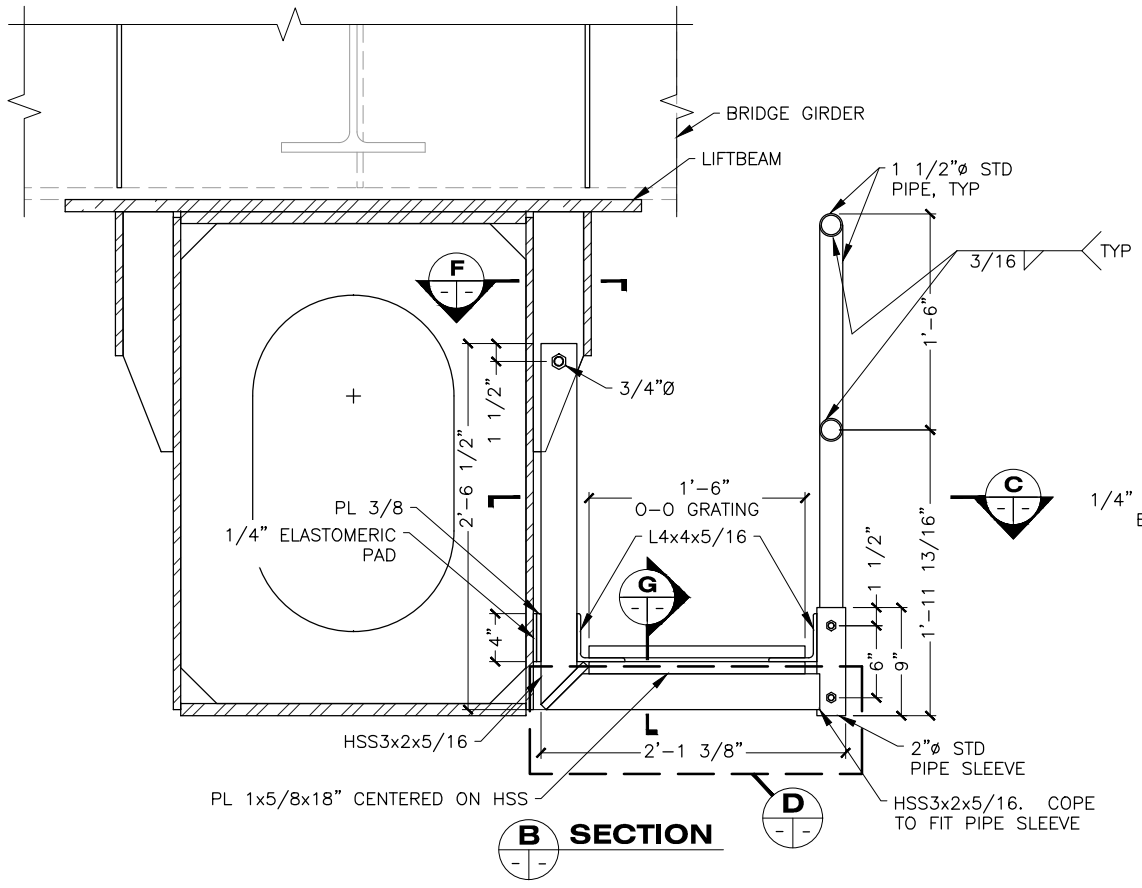
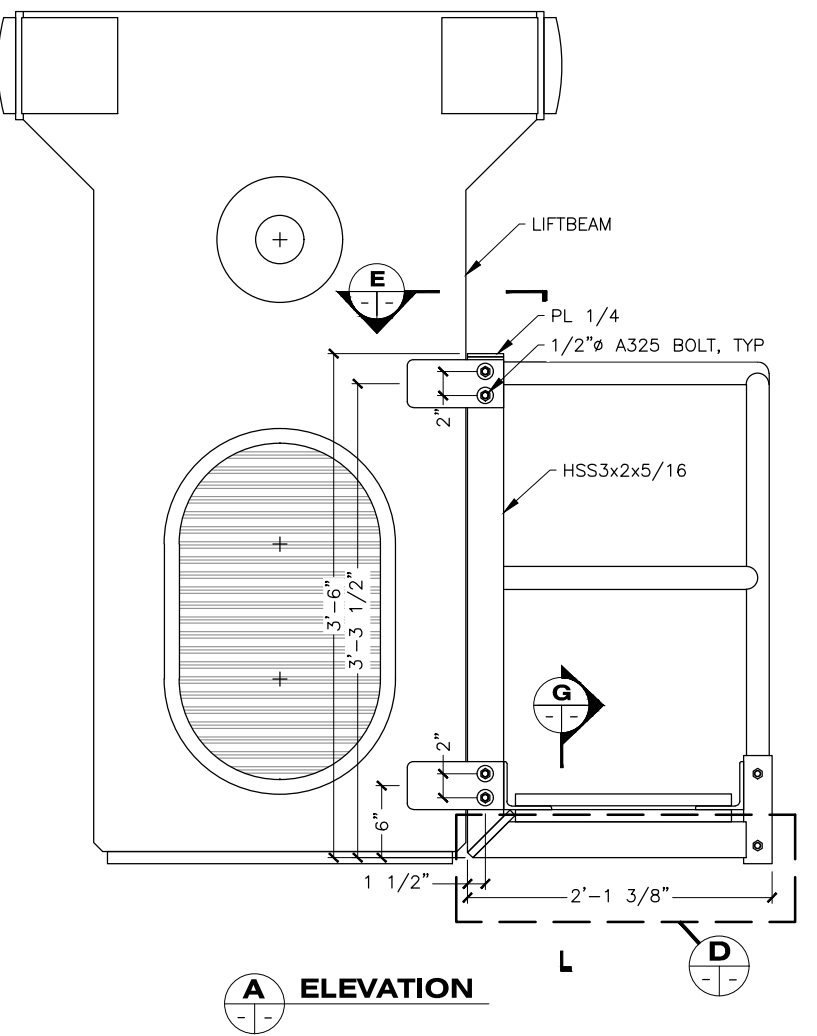
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	330	145



NOTE:
 1. WELD GRATING TO L4x4 WITH FILLET WELDS AT FIRST, LAST AND EVERY FOURTH BEARING BAR OF GRATING PANEL.
 2. ESTIMATED WEIGHT = 1,670 LBS.



2 LIFT BEAM CATWALK



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS
 TRANSFER BRIDGE LIFT BEAM

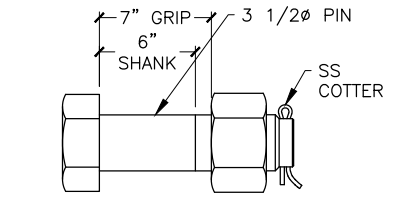
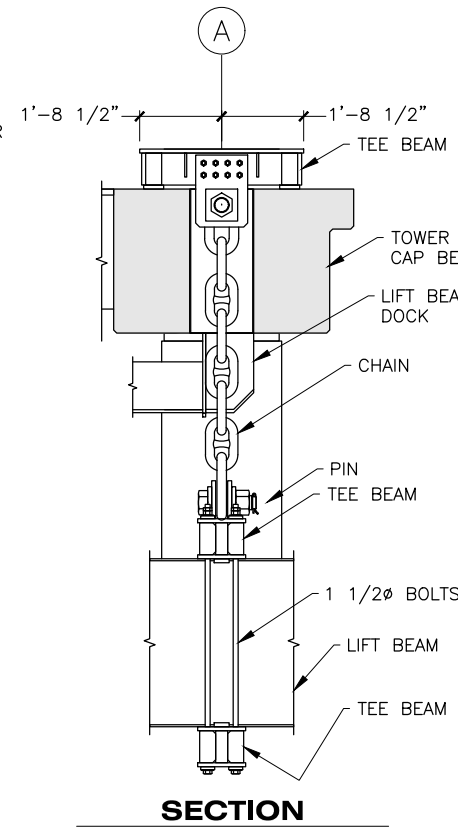
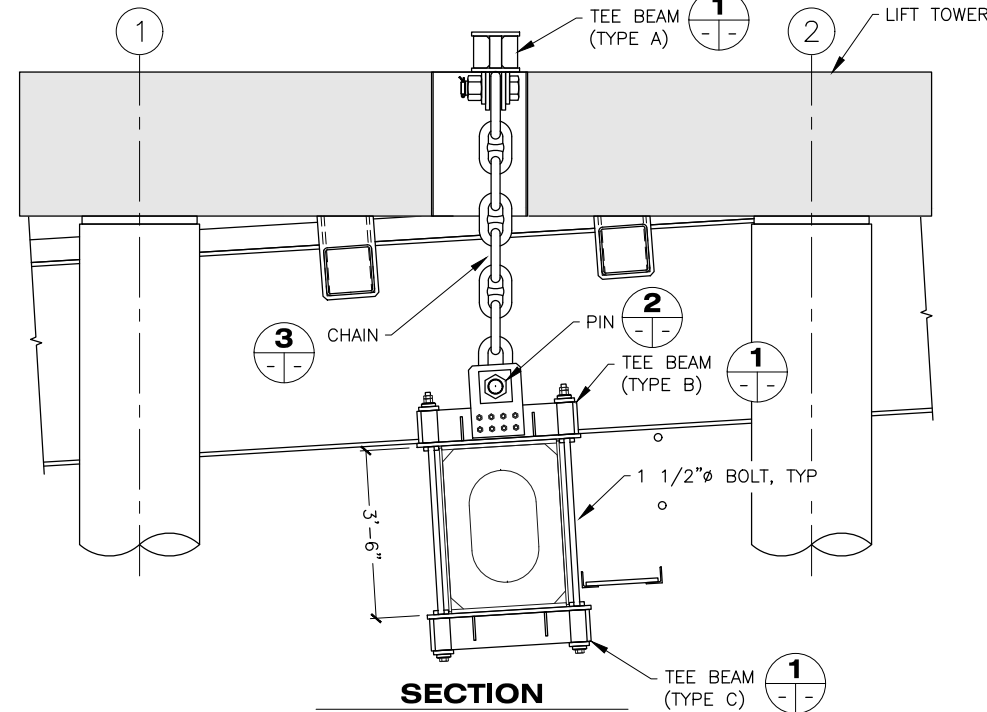
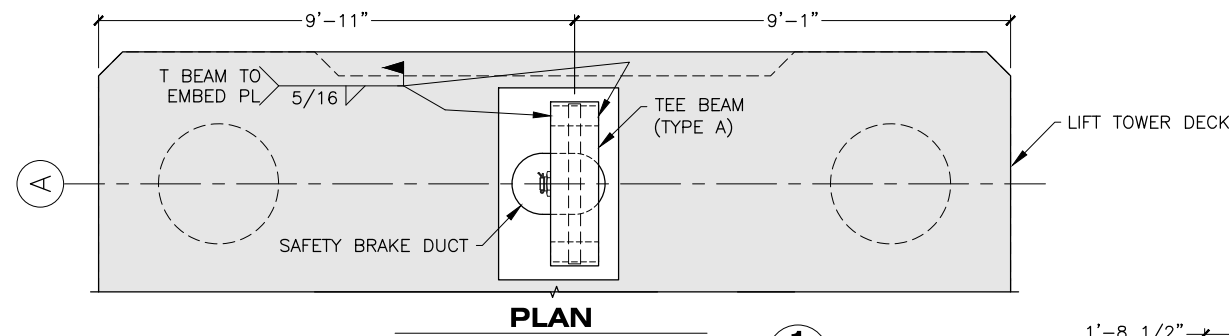
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

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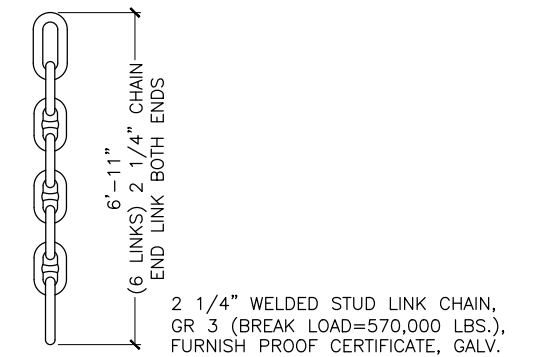
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DESIGN LOADS FOR PER SUPPORT (HANGER):
 DEAD LOAD - 110 KIPS
 LIVE LOAD - 75 KIPS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	331	145



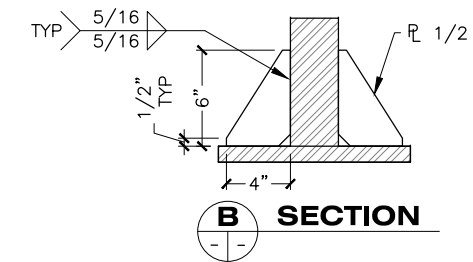
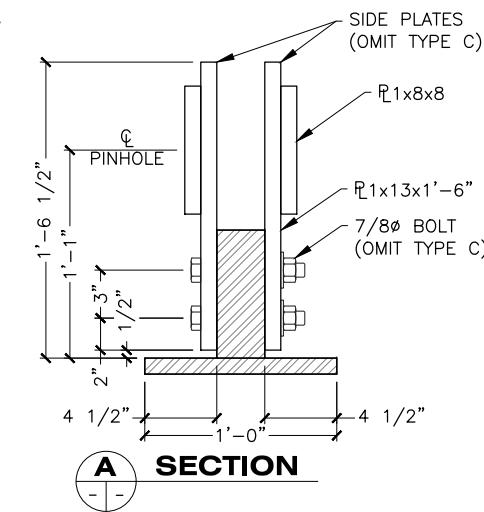
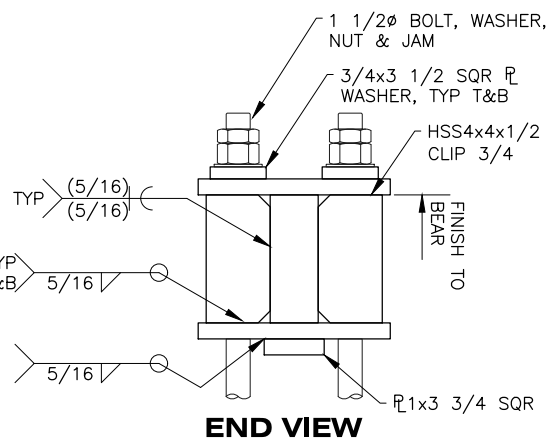
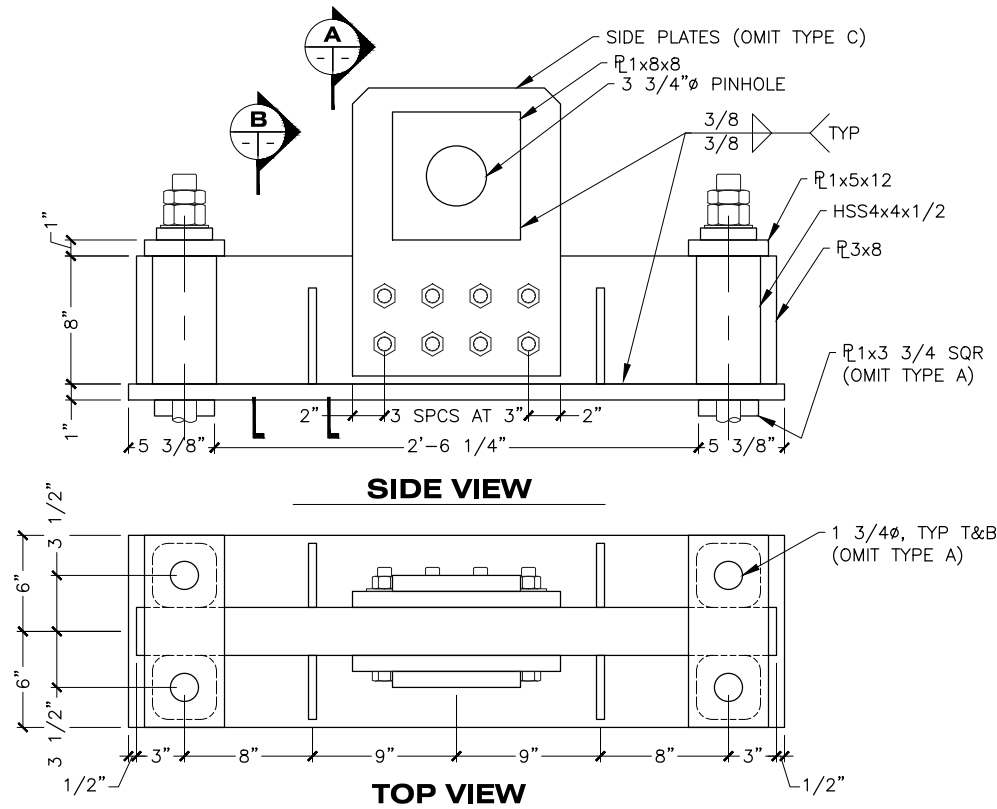
2 **DETAIL HEADED PIN**
 PROPERTIES SAME AS ASTM F1554
 GR 55, F_y = 55 KSI



3 **DETAIL**
 2 1/4" WELDED STUD LINK CHAIN,
 GR 3 (BREAK LOAD=570,000 LBS.),
 FURNISH PROOF CERTIFICATE, GALV.

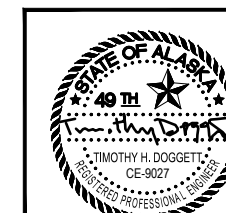
7 BRIDGE MAINTENANCE SUPPORT

326 331



1 **DETAIL TEE BEAM**
 TYPE B SHOWN, OTHERS SIMILAR AS NOTED.
 (2EA) TYPE A
 (2EA) TYPE B
 (2EA) TYPE C

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



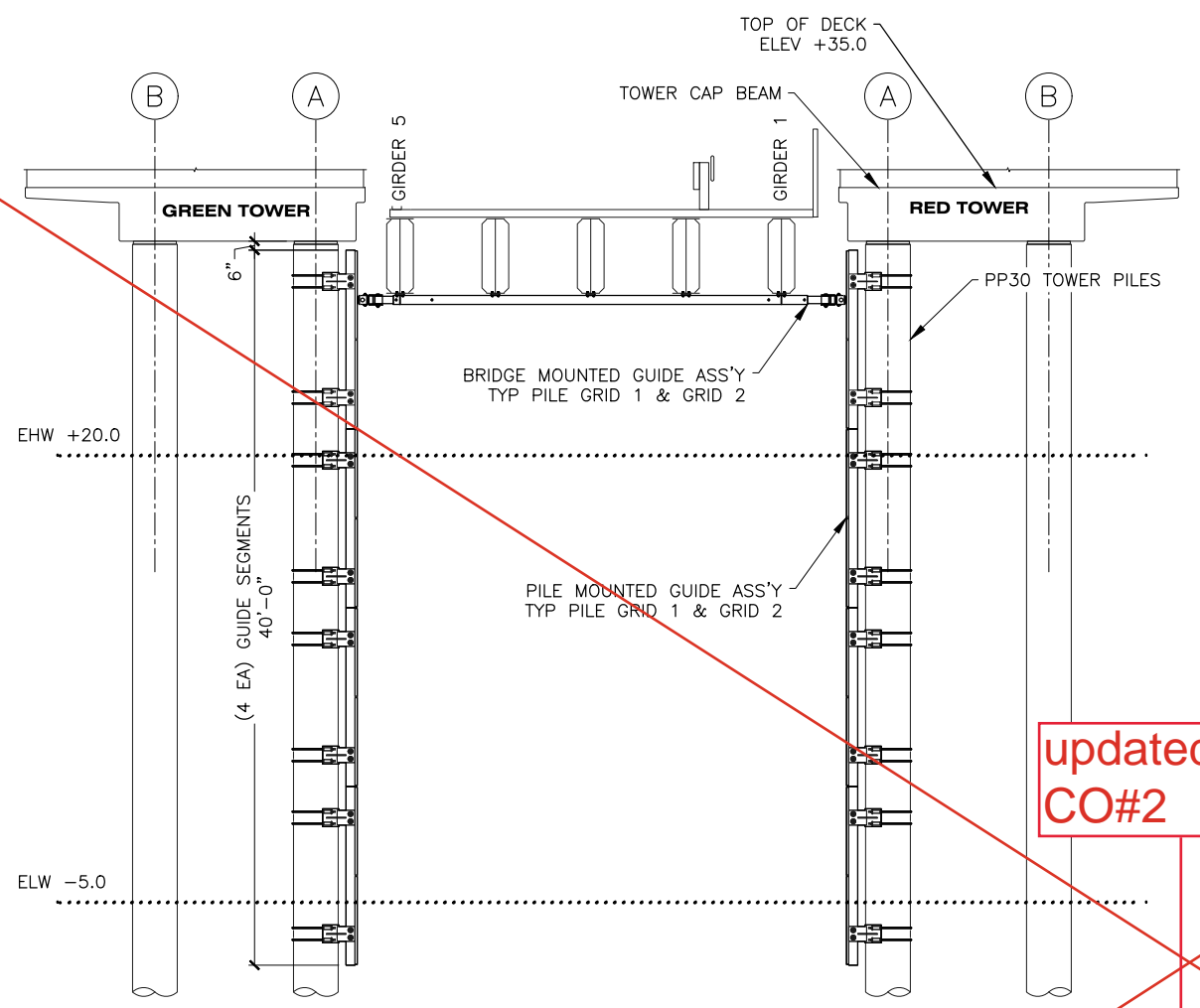
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS
 TRANSFER BRIDGE
 LIFT BEAM

HH 10/01/2024

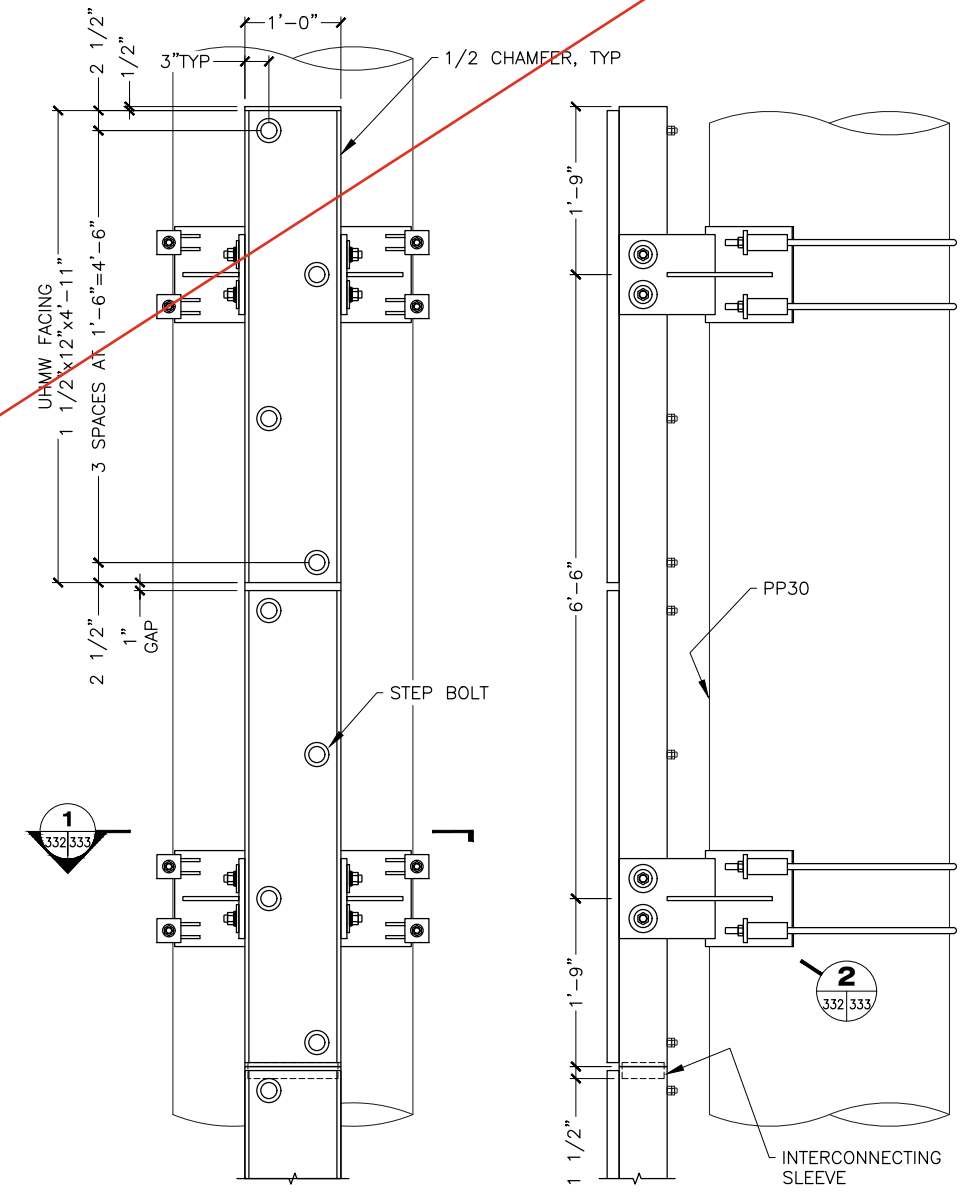
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	332	145



TYPICAL FRONT ELEVATION AT TOWERS

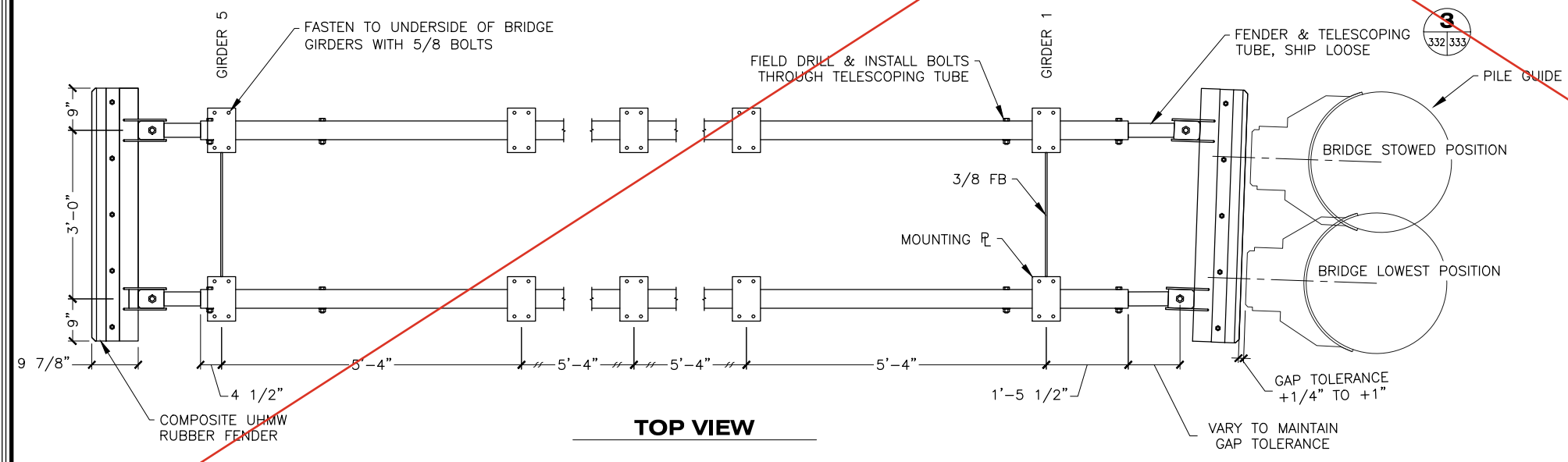
updated per
CO#2



FRONT ELEVATION

SIDE ELEVATION

PILE MOUNTED GUIDE ASSEMBLY
(16 SEGMENTS REQUIRED)



TOP VIEW

BRIDGE MOUNTED GUIDE ASSEMBLY
(2 ASSEMBLIES REQUIRED)



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

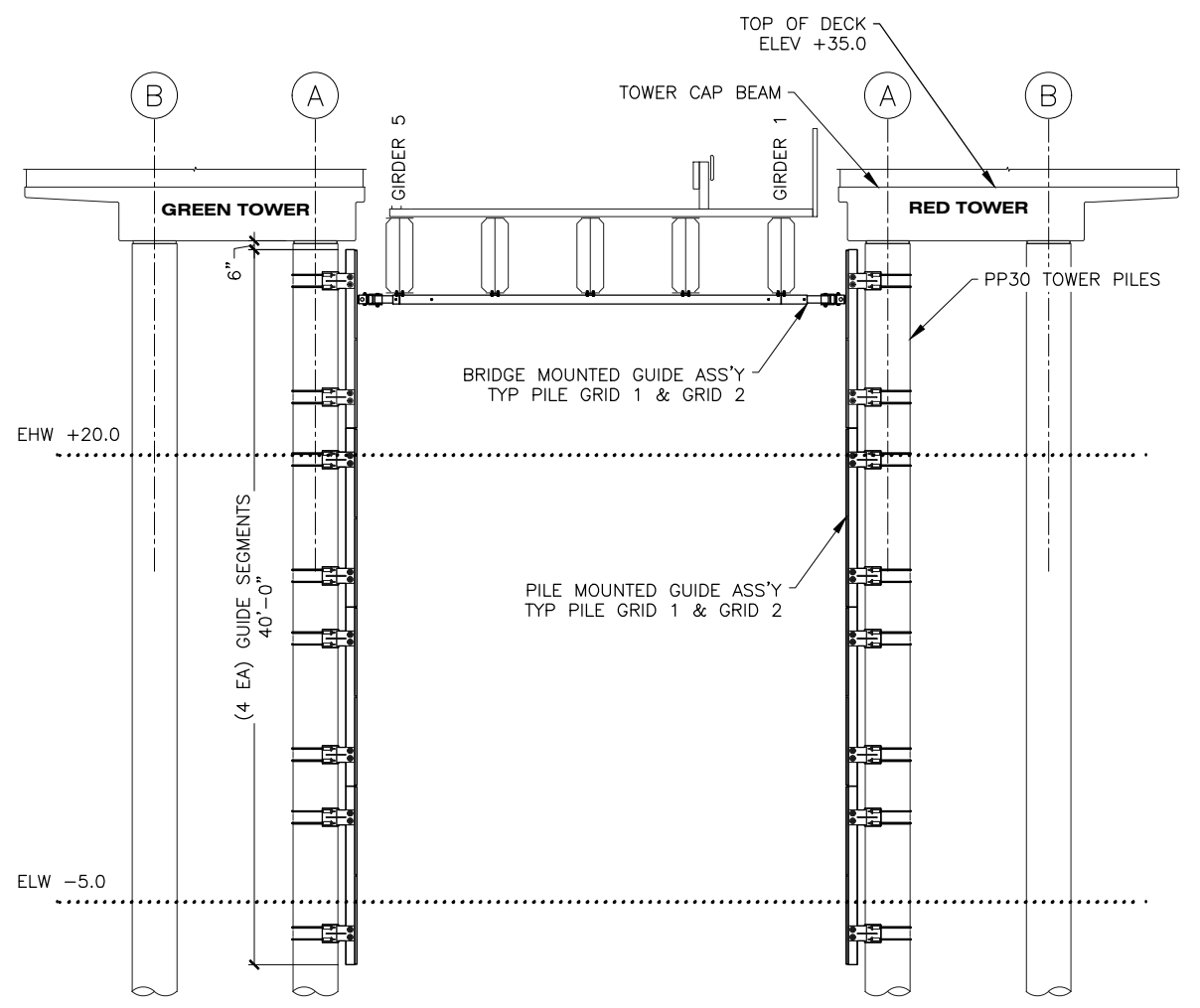
TRANSFER BRIDGE GUIDE ASSEMBLIES

HH 10/01/2024

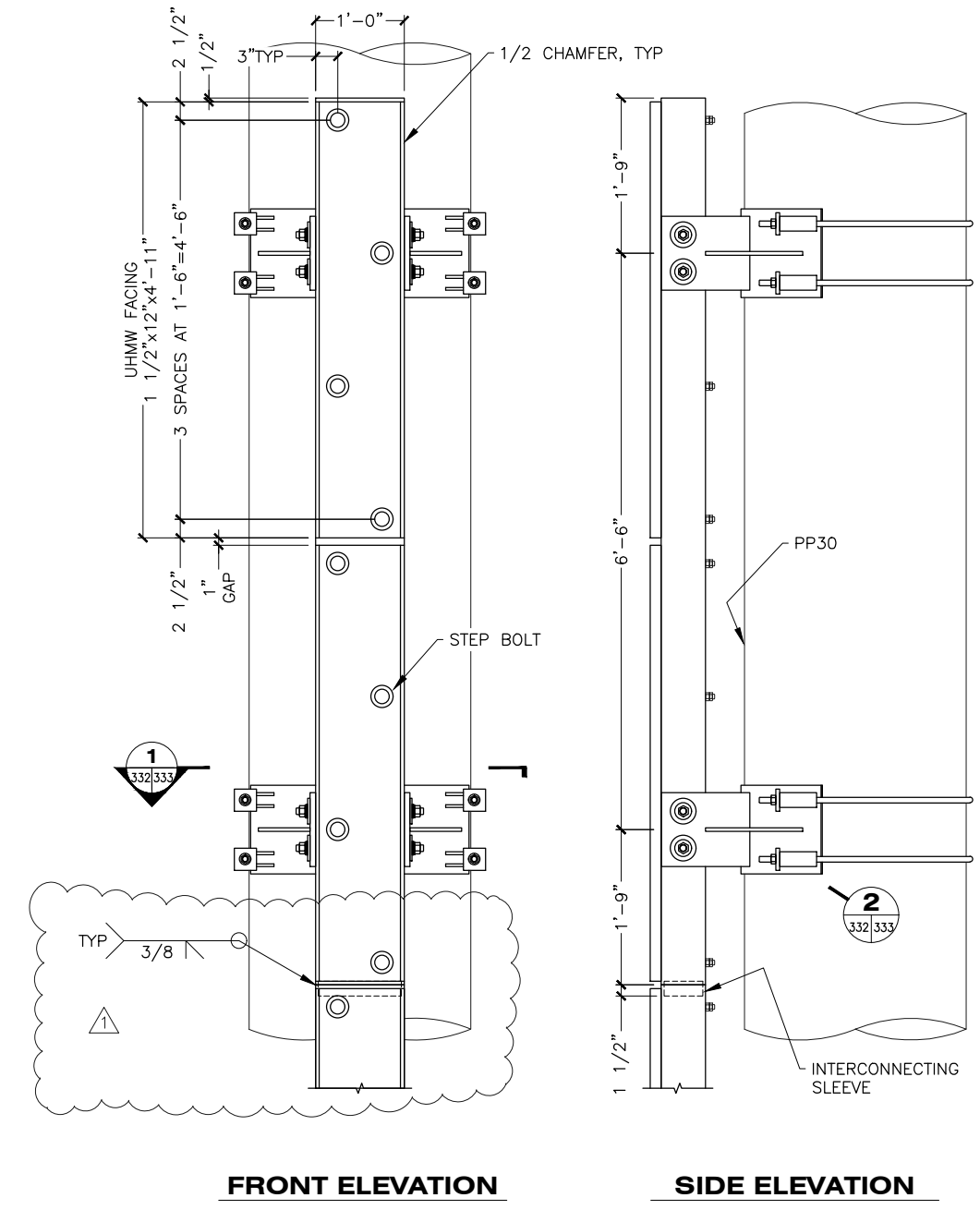
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

FILE: G:\us\68128\WF\PLANSET\332-333 - TRANSFER BRIDGE - GUIDE ASSEMBLIES.dwg DATE: 3/18/2019 14:05 LAYOUT: 332 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	01/16/20	JOIN SEGMENTS BY WELDING	ALASKA	Z681280000/0003182	2019	332	145

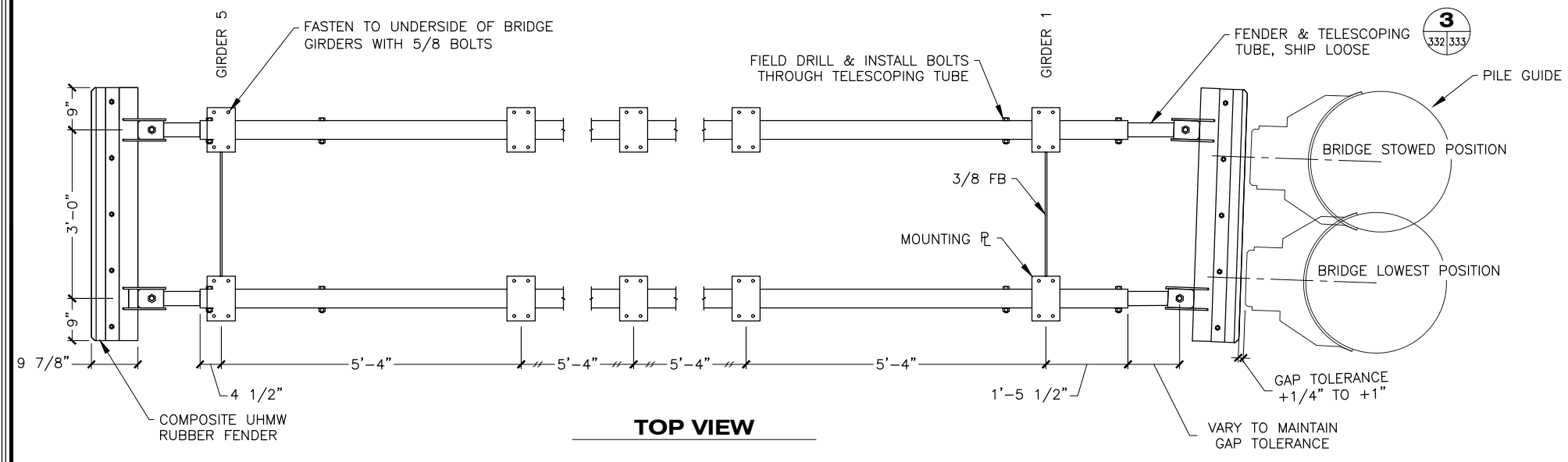


TYPICAL FRONT ELEVATION AT TOWERS



FRONT ELEVATION **SIDE ELEVATION**

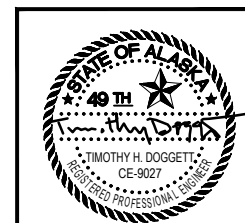
5 PILE MOUNTED GUIDE ASSEMBLY
(16 SEGMENTS REQUIRED)



4 BRIDGE MOUNTED GUIDE ASSEMBLY
(2 ASSEMBLIES REQUIRED)

4
326/332

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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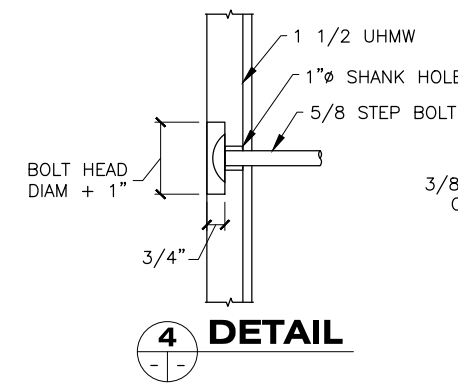
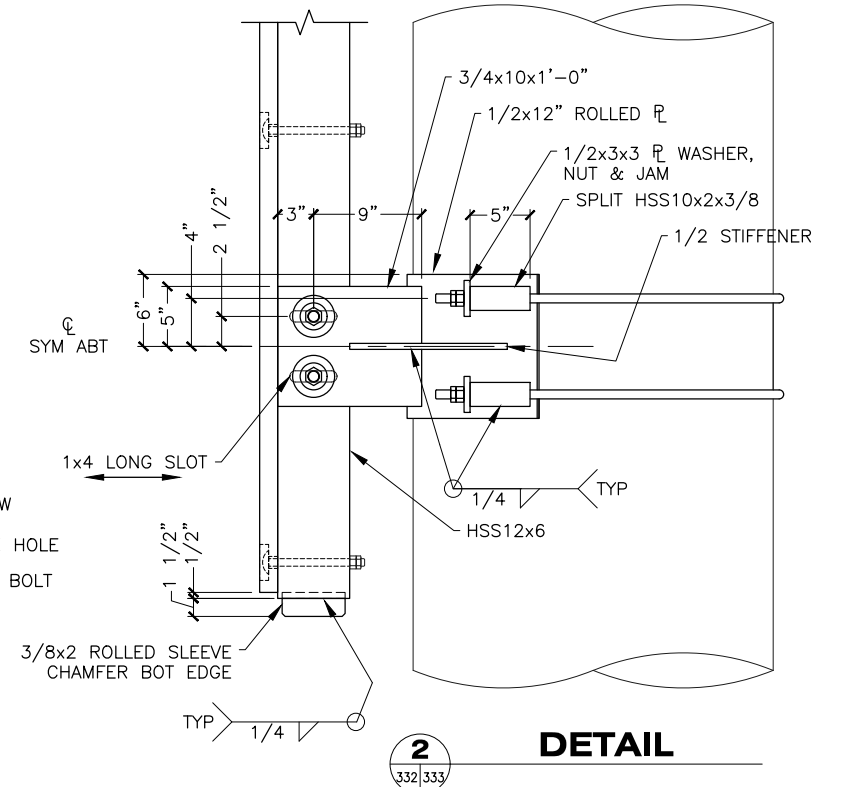
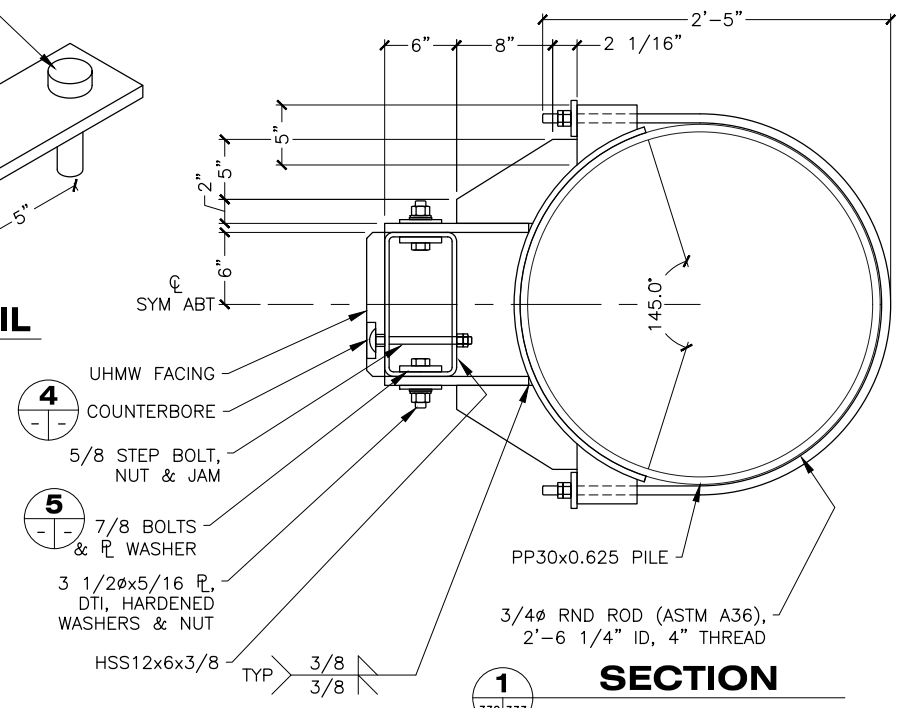
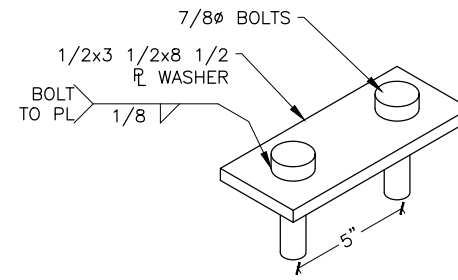
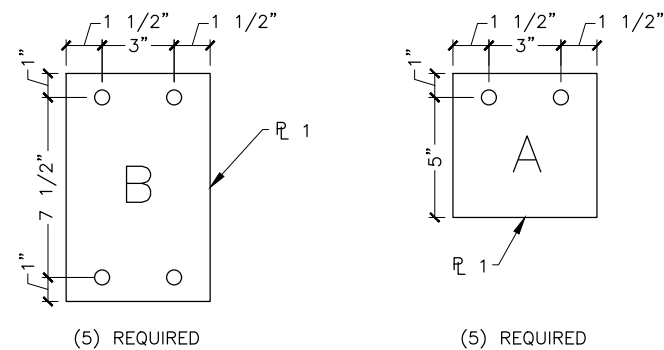
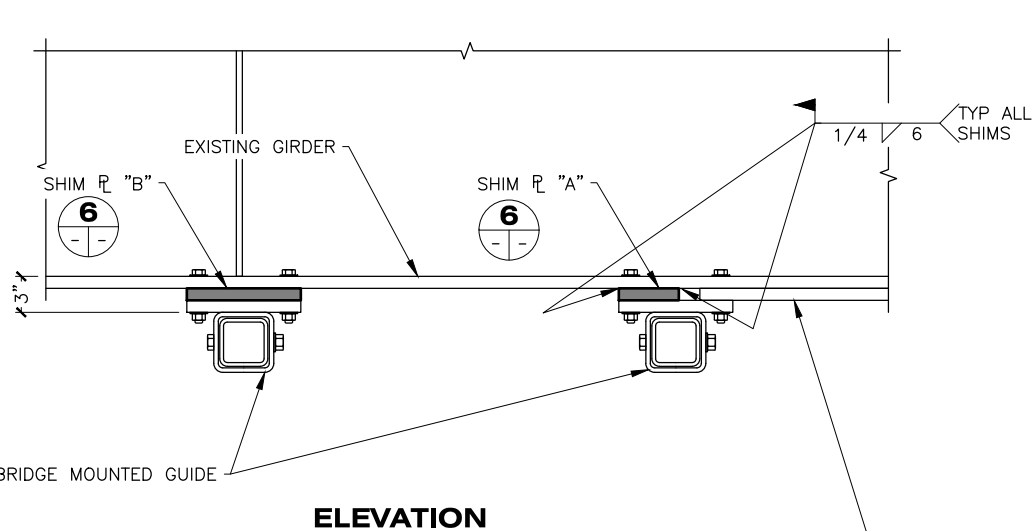
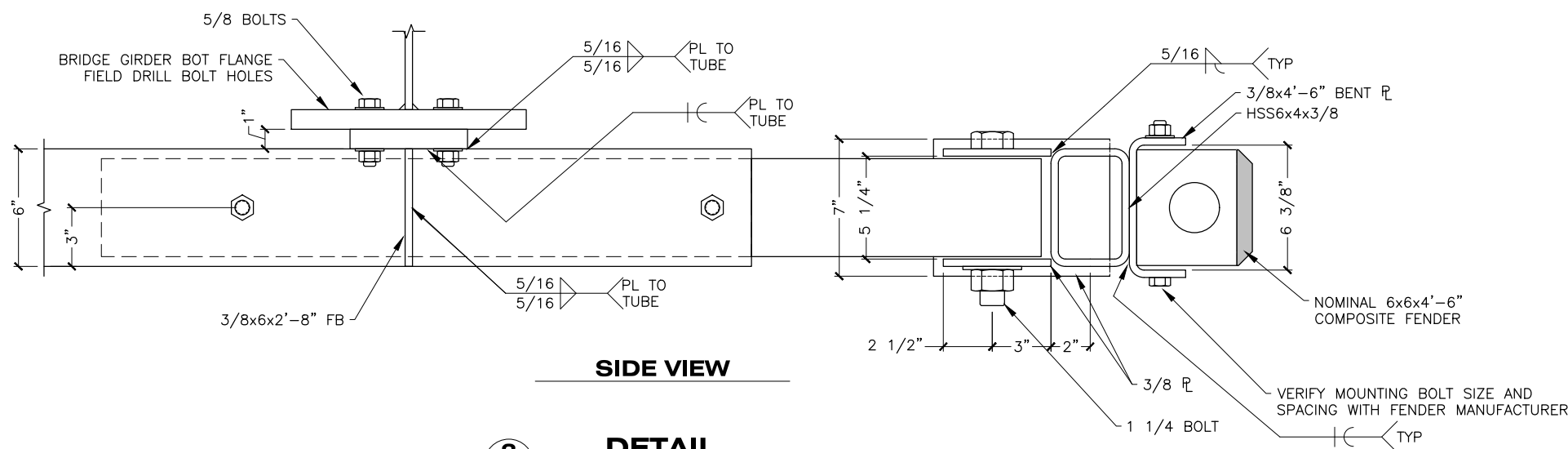
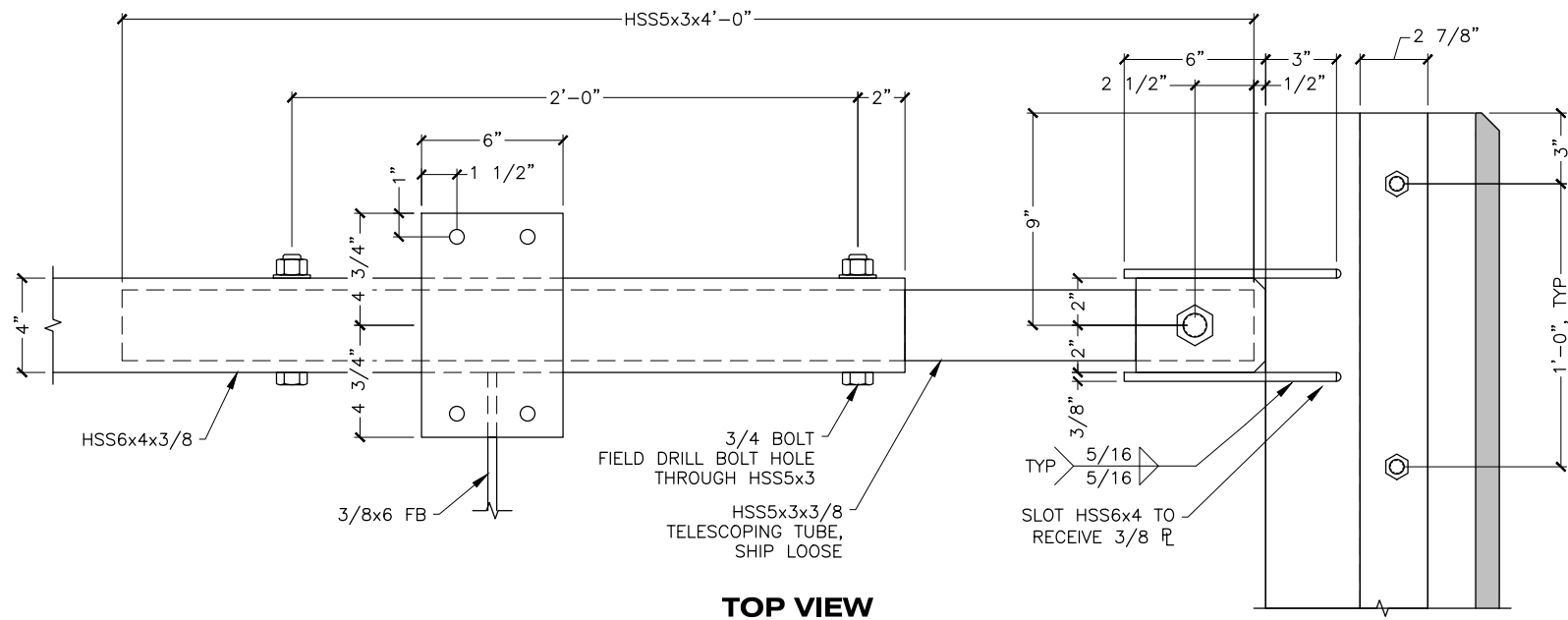
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE GUIDE ASSEMBLIES

HH 10/01/2024

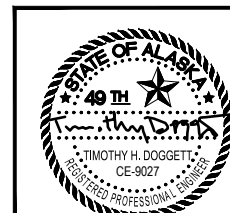
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	333	145



1" THICK WEAR PLATE WELDED TO THE UNDERSIDE OF THE BOTTOM FLANGE REQUIRES SHIM PLATES BETWEEN THE BRIDGE MOUNTED GUIDE CONNECTION PLATES AND THE GIRDER FLANGE.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE GUIDE ASSEMBLIES

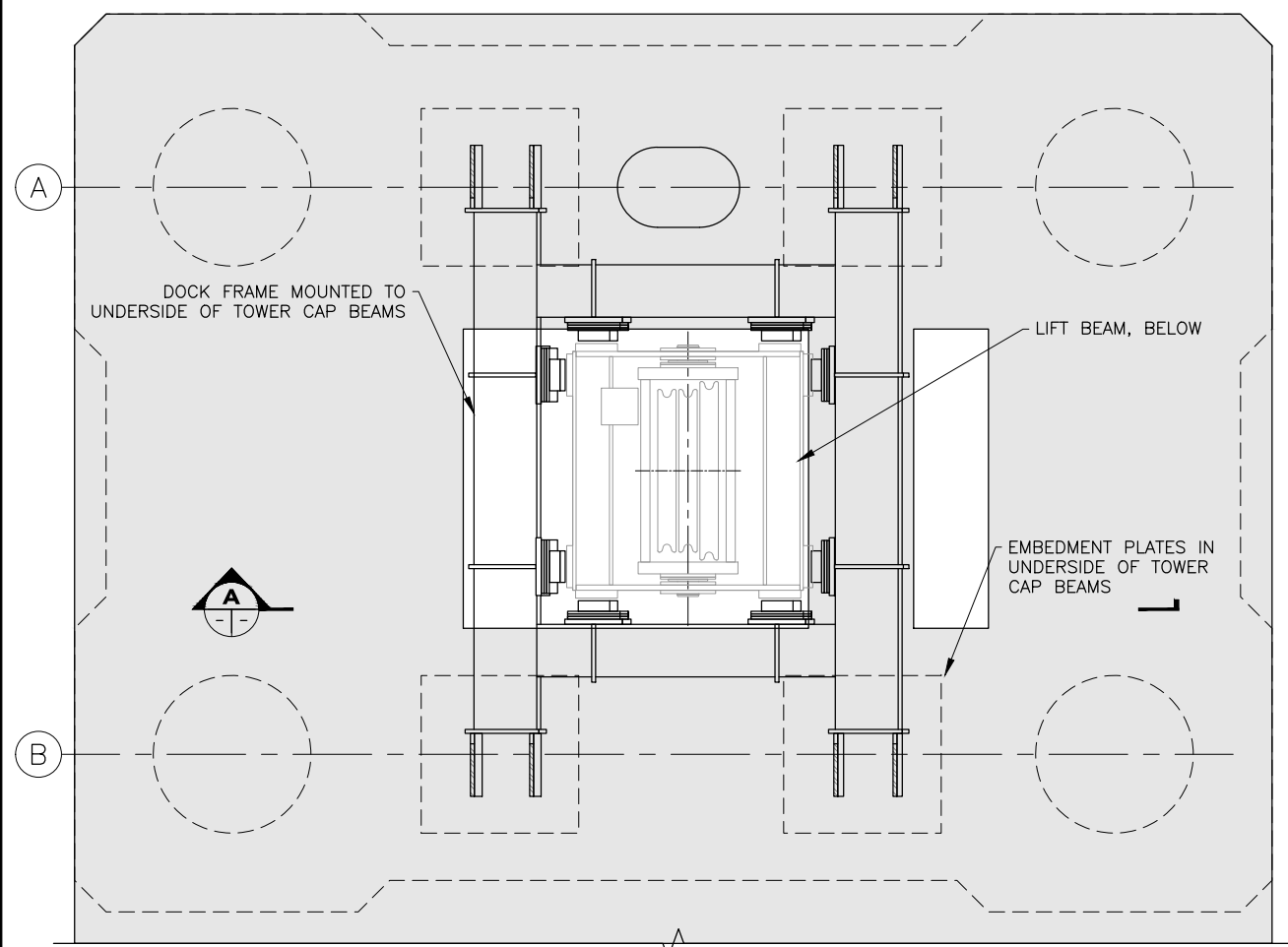
HH 10/01/2024

3/18/2019

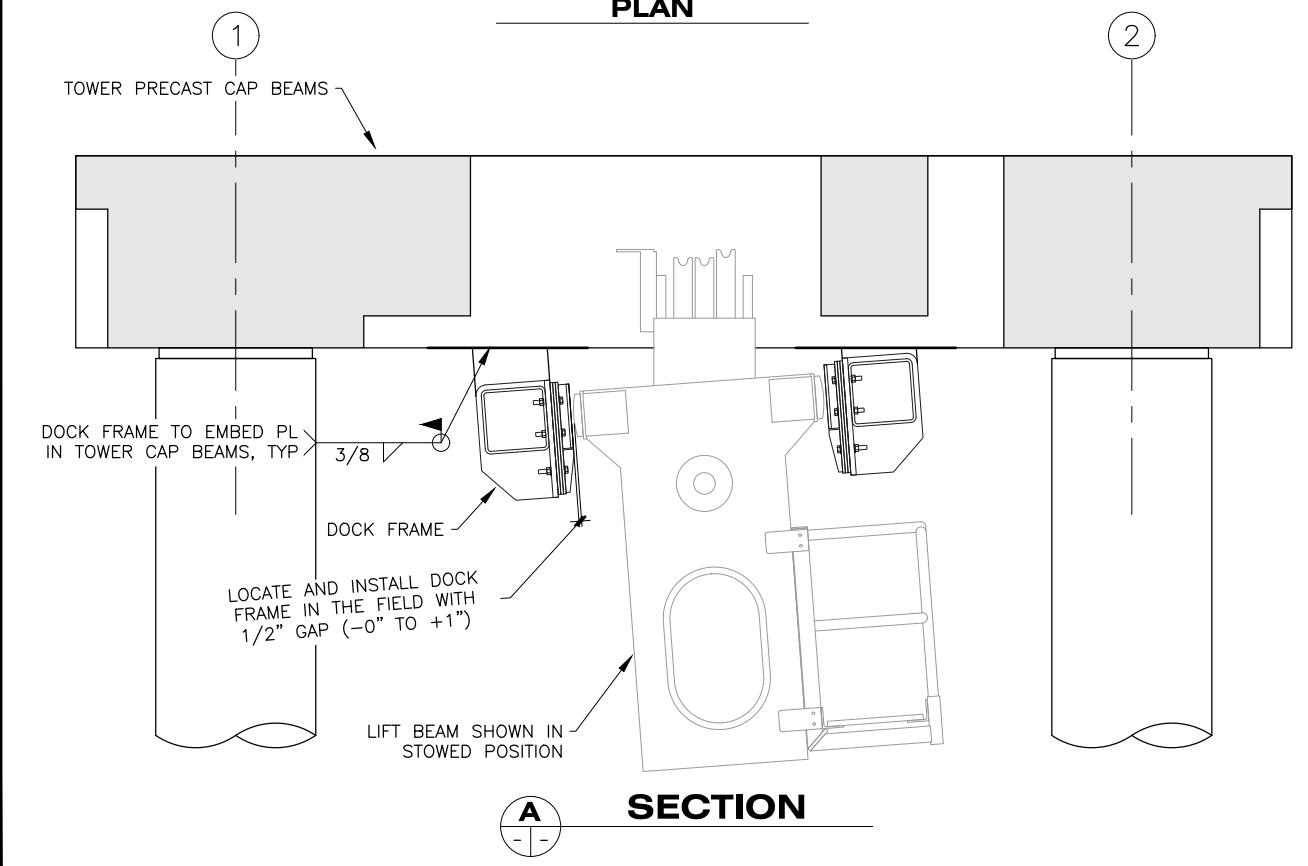
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	334	145

FILE: q:\us\68128\WF\PLANSET\334-335 - TRANSFER BRIDGE - LIFT BEAM DOCK.dwg
 DATE: 3/18/2019 14:04 LAYOUT: 334
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



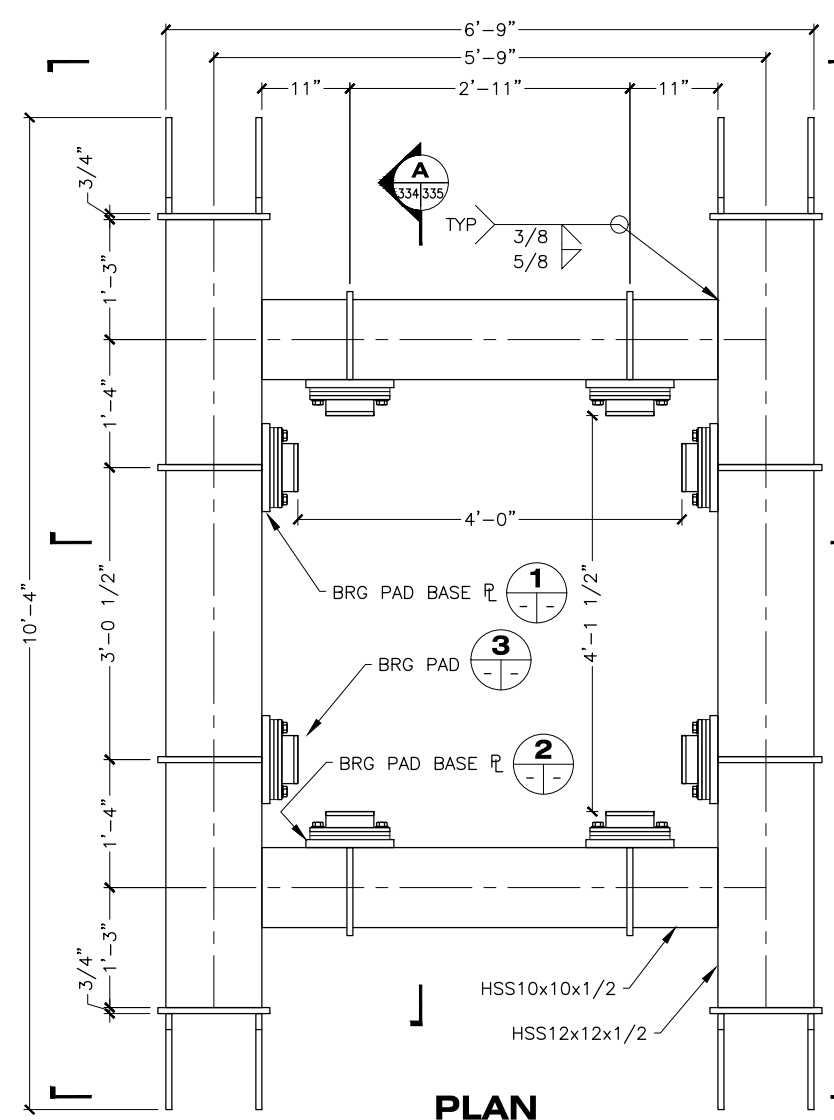
PLAN



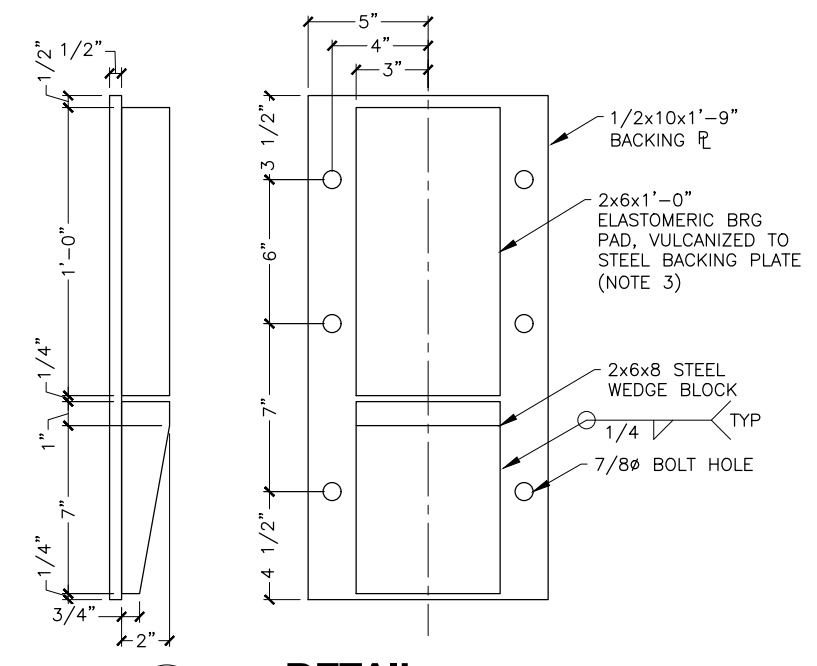
SECTION

6 LIFT BEAM DOCK

GREEN TOWER SHOWN, RED TOWER OPP HAND

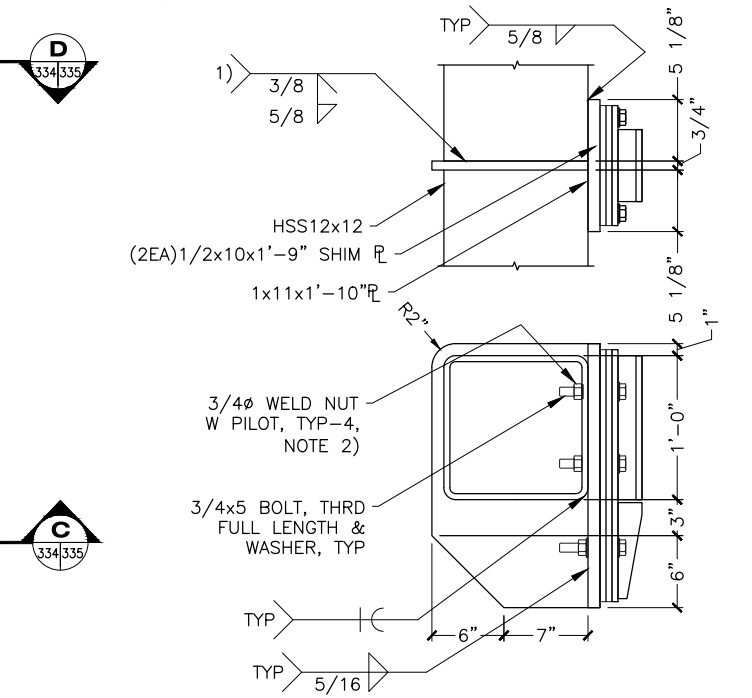


PLAN DOCK FRAME

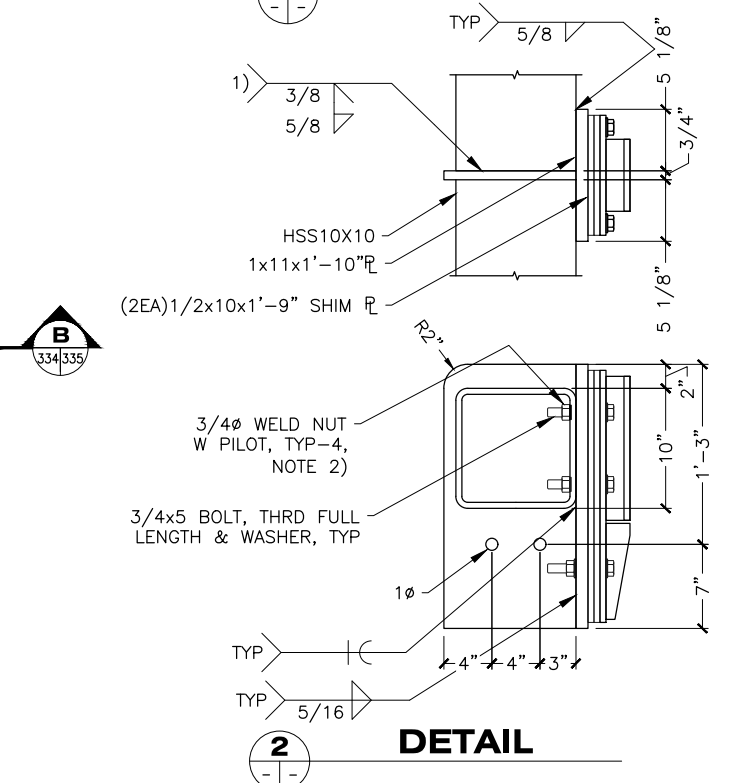


DETAIL

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

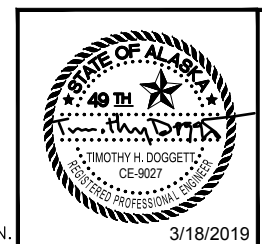


DETAIL



DETAIL

- NOTE
- 1) BEVEL TYP 4 SIDES, FILLET TYP 3 SIDES.
 - 2) INSTALL WELD NUTS BEFORE WELDING HSS TO THRU PLATES.
 - 3) ELASTOMERIC BEARING PAD: GRADE 5, (3) 10 GA LAMINATIONS EQUALLY SPACED, 1/4" COVER AT EDGES AND FACES.



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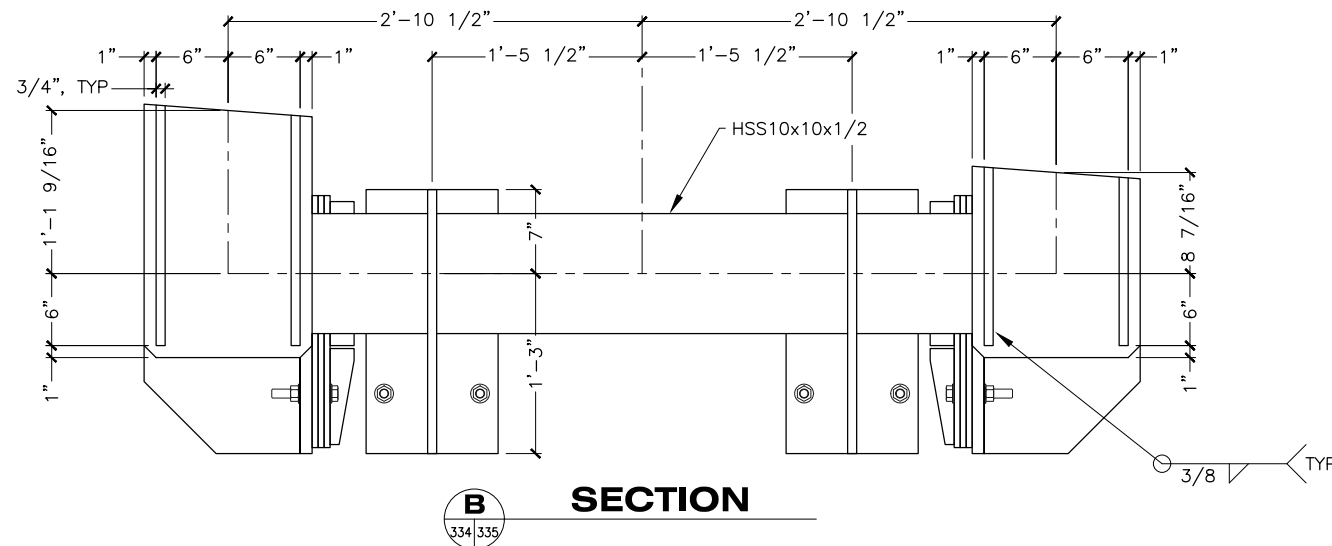
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE LIFT BEAM DOCK

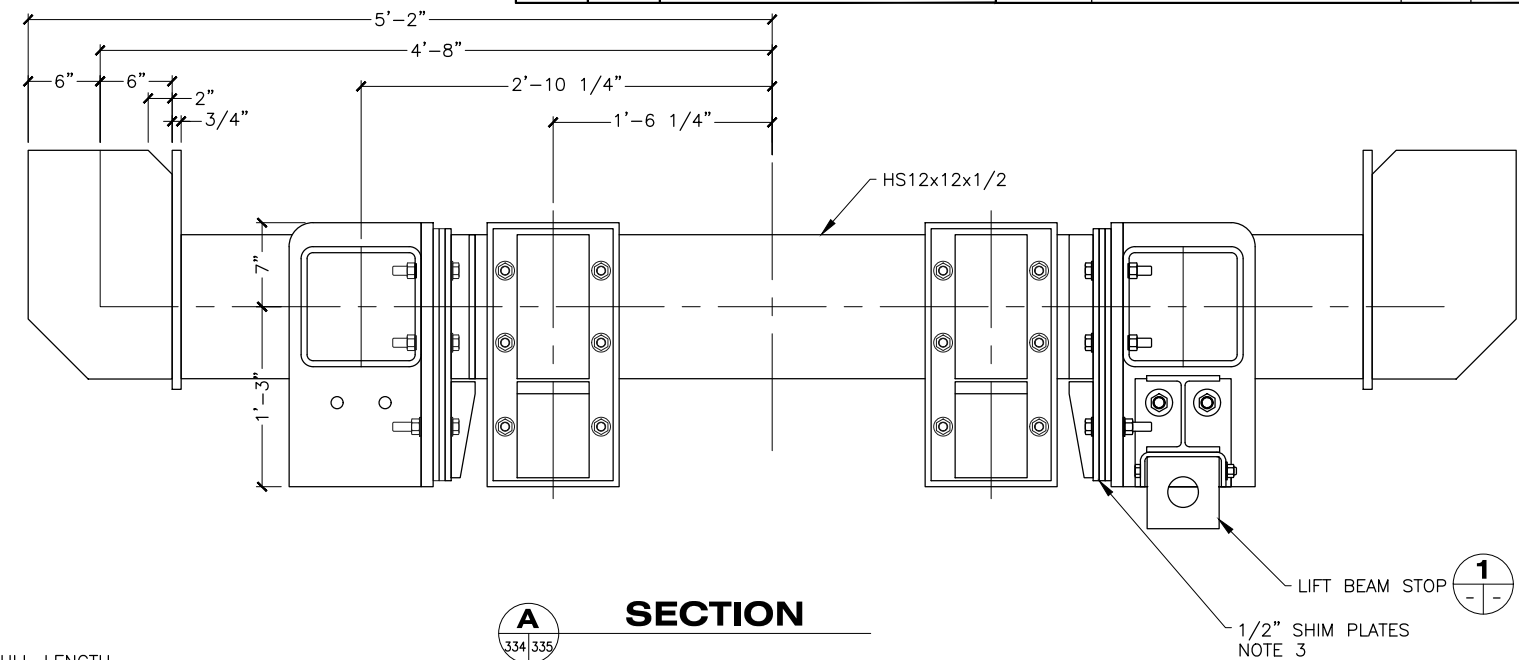
HH 10/01/2024

3/18/2019

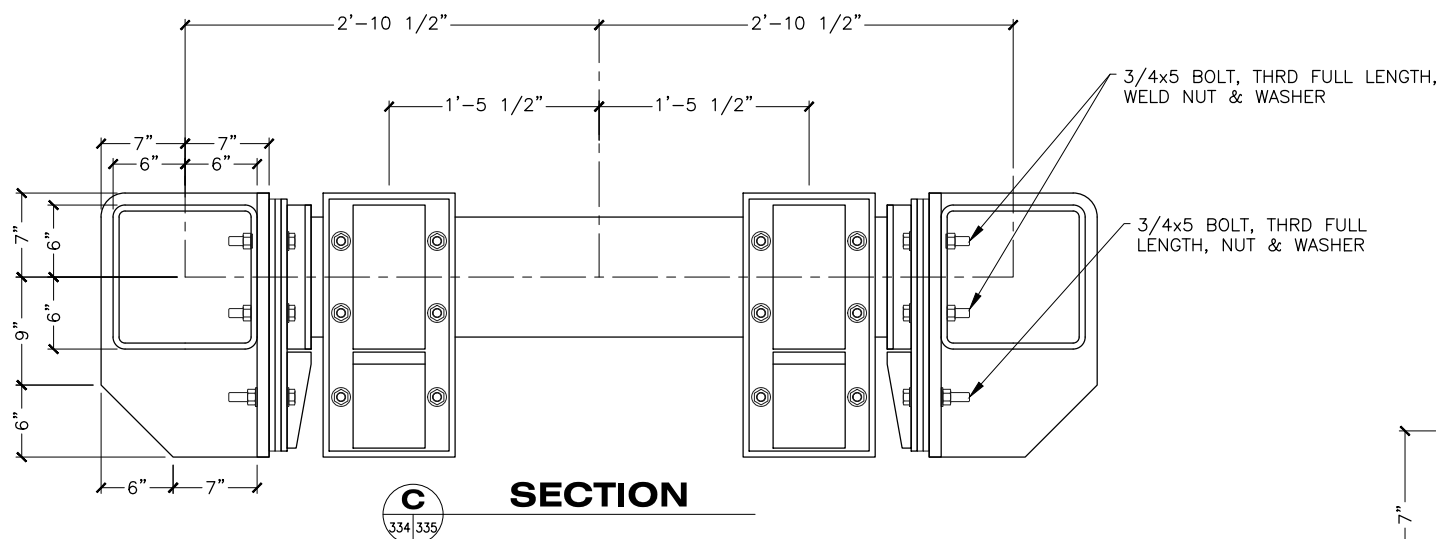
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			ALASKA	Z681280000/0003182	2019	335	145



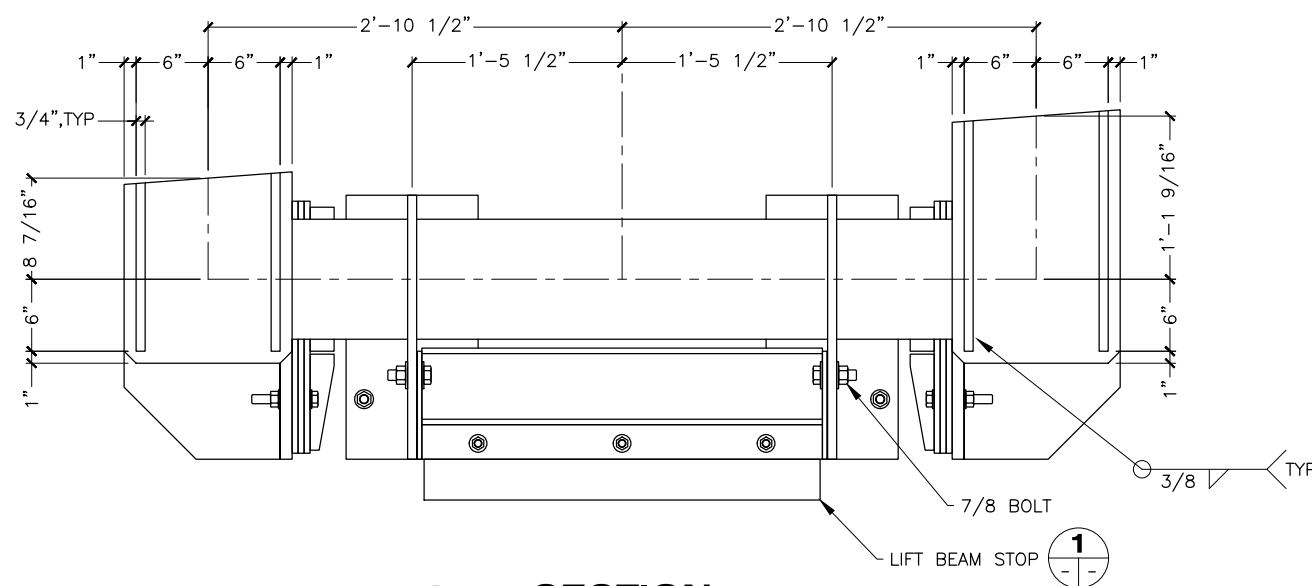
B SECTION
334 335



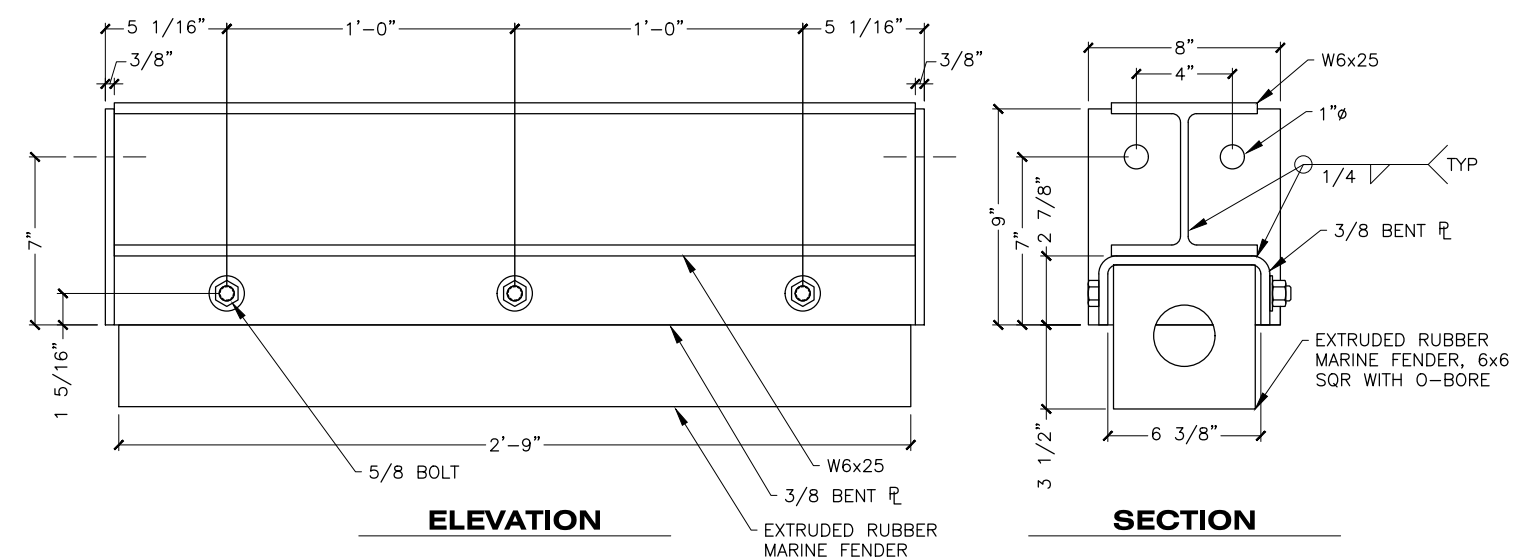
A SECTION
334 335



C SECTION
334 335



D SECTION
334 335



ELEVATION
DETAIL
LIFT BEAM STOP

- NOTES:
1. SEAL WELD ALL JOINTS.
 2. DOCK FRAME, SHIM PLATES, AND BACKING PLATE SHALL BE COATED IN ACCORDANCE WITH SECTION 513 SYSTEM 2. BOLTS SHALL BE HDG.
 3. AFTER BRIDGE HAS BEEN ERECTED AND DOCK FRAME WELDED TO UNDERSIDE OF TOWER, SHIM PLATES BEHIND COMPOSITE BEARING PADS MAY BE REDISTRIBUTED TO MAINTAIN 1/2" GAP BETWEEN LIFT BEAM AND BRG PADS.



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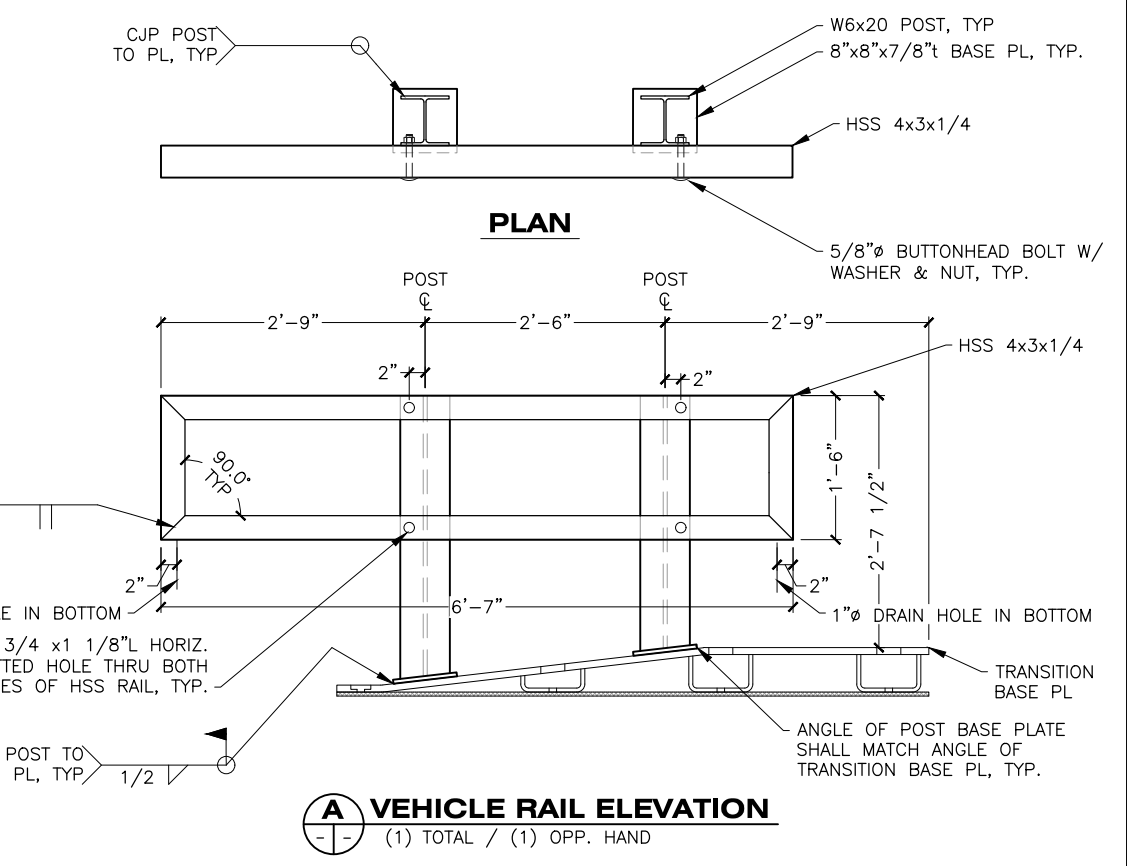
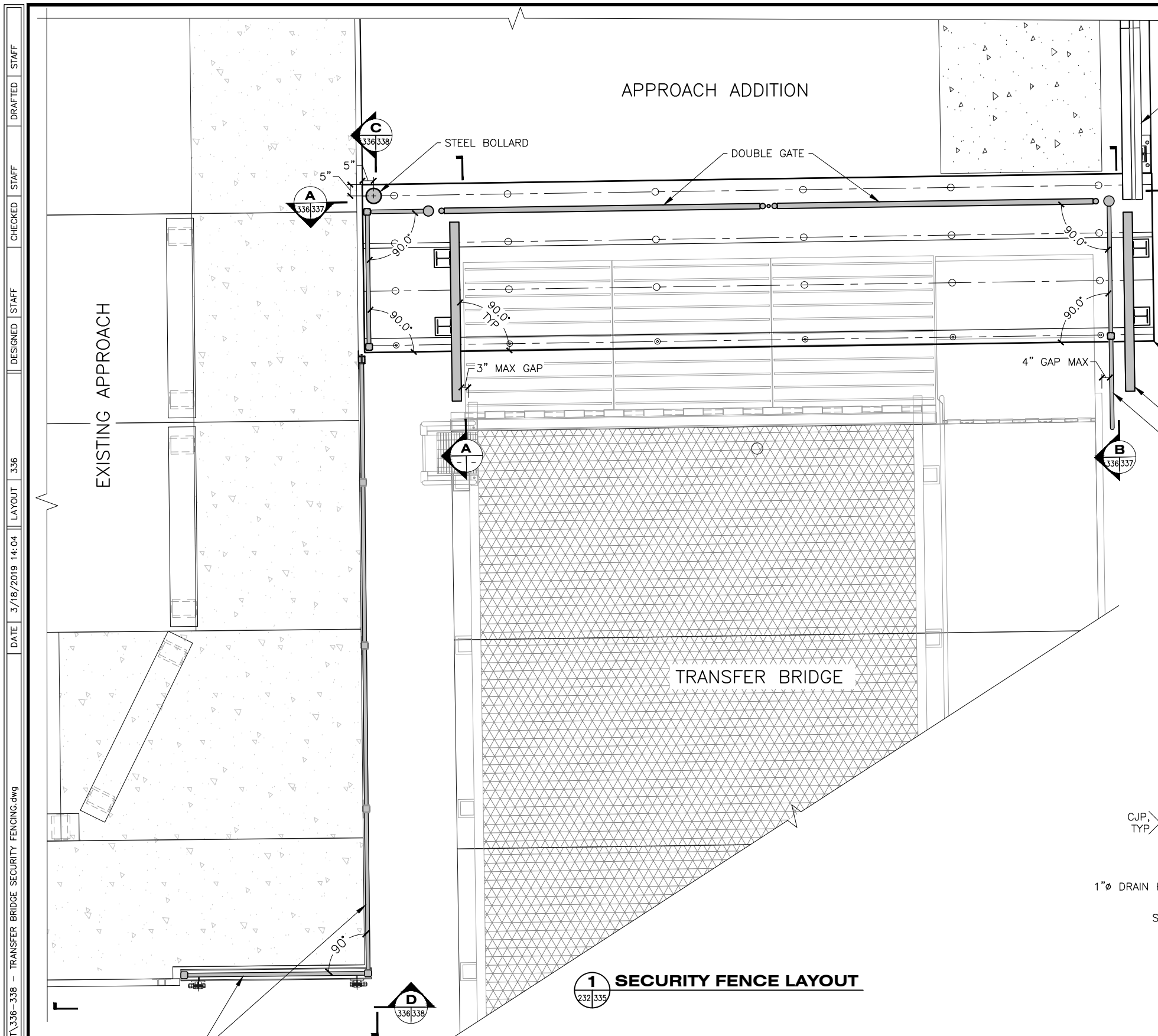
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSFER BRIDGE LIFT BEAM DOCK

HH 10/01/2024

FILE q:\ous\68128\WF\PLANSET\334-335 - TRANSFER BRIDGE - LIFT BEAM DOCK.dwg DATE 3/18/2019 14:04 LAYOUT 335 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	336	145

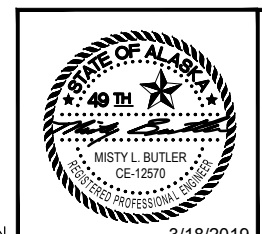


1 SECURITY FENCE LAYOUT
232 335

A VEHICLE RAIL ELEVATION
(1) TOTAL / (1) OPP. HAND

FILE q:\Gus\68128\WF\PLANSET\336-338 - TRANSFER BRIDGE SECURITY FENCING.dwg DATE 3/18/2019 14:04 LAYOUT 336 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



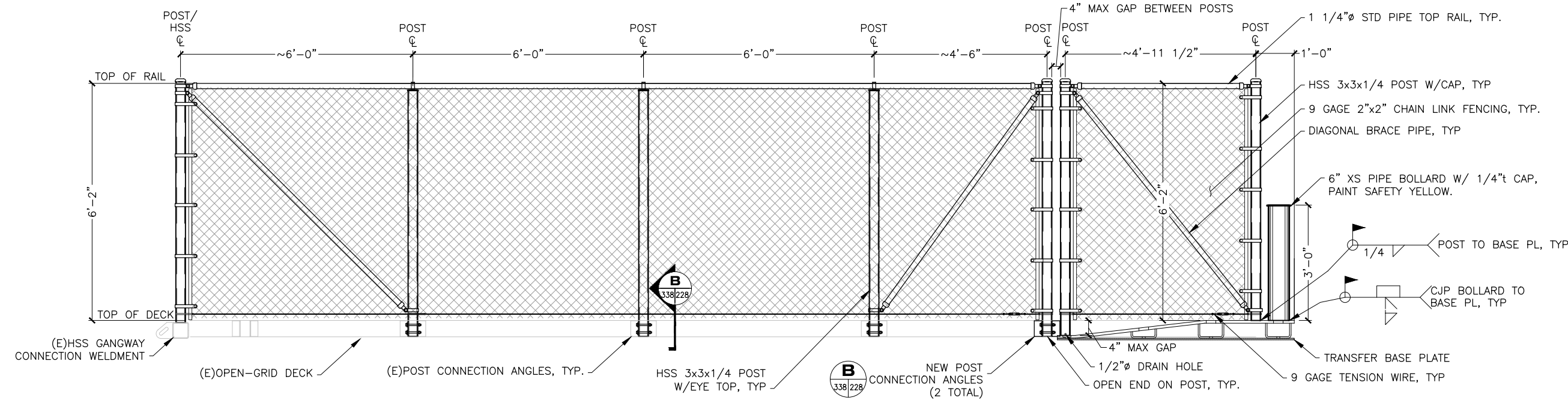
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

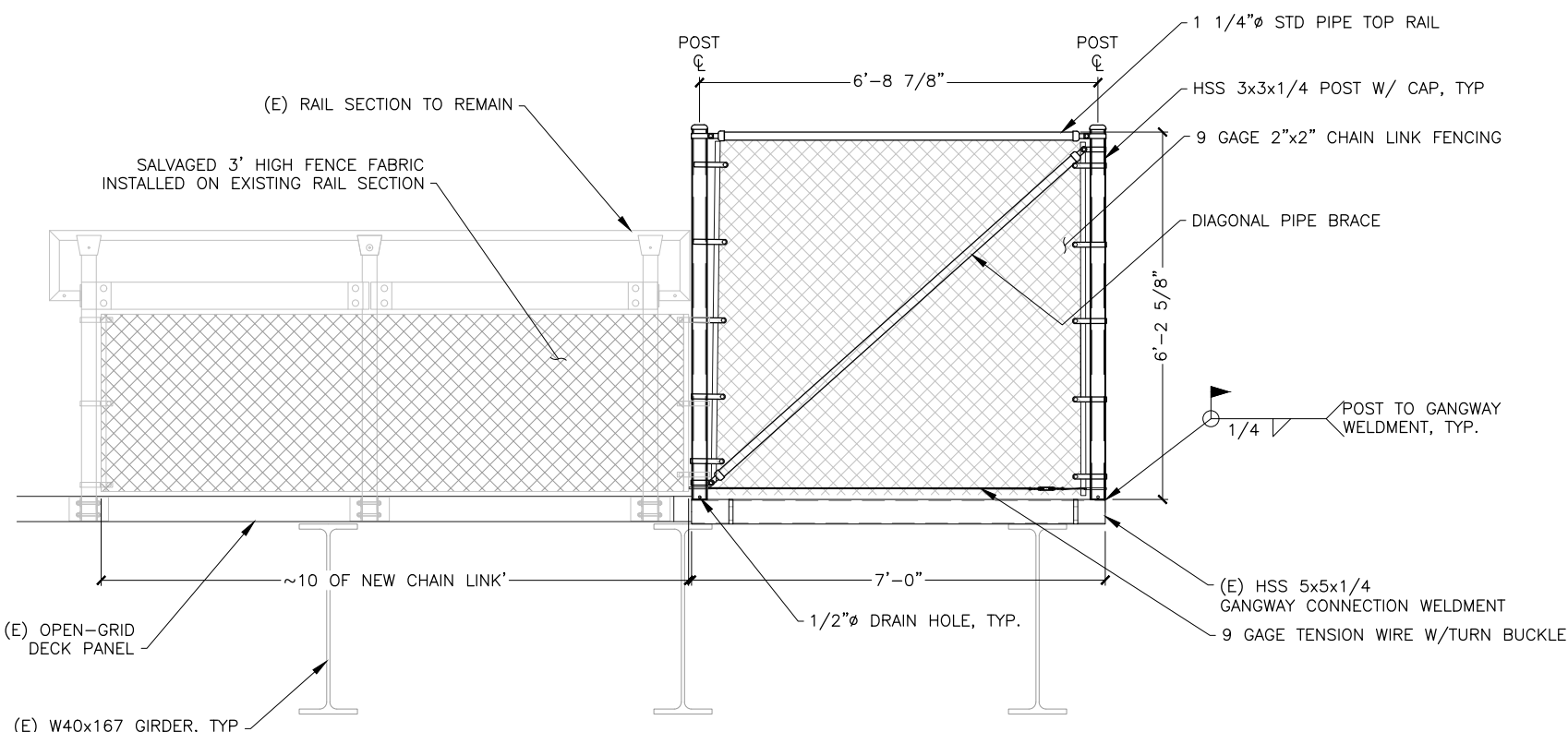
TRANSFER BRIDGE SECURITY FENCE LAYOUT
HH 10/01/2024

3/18/2019

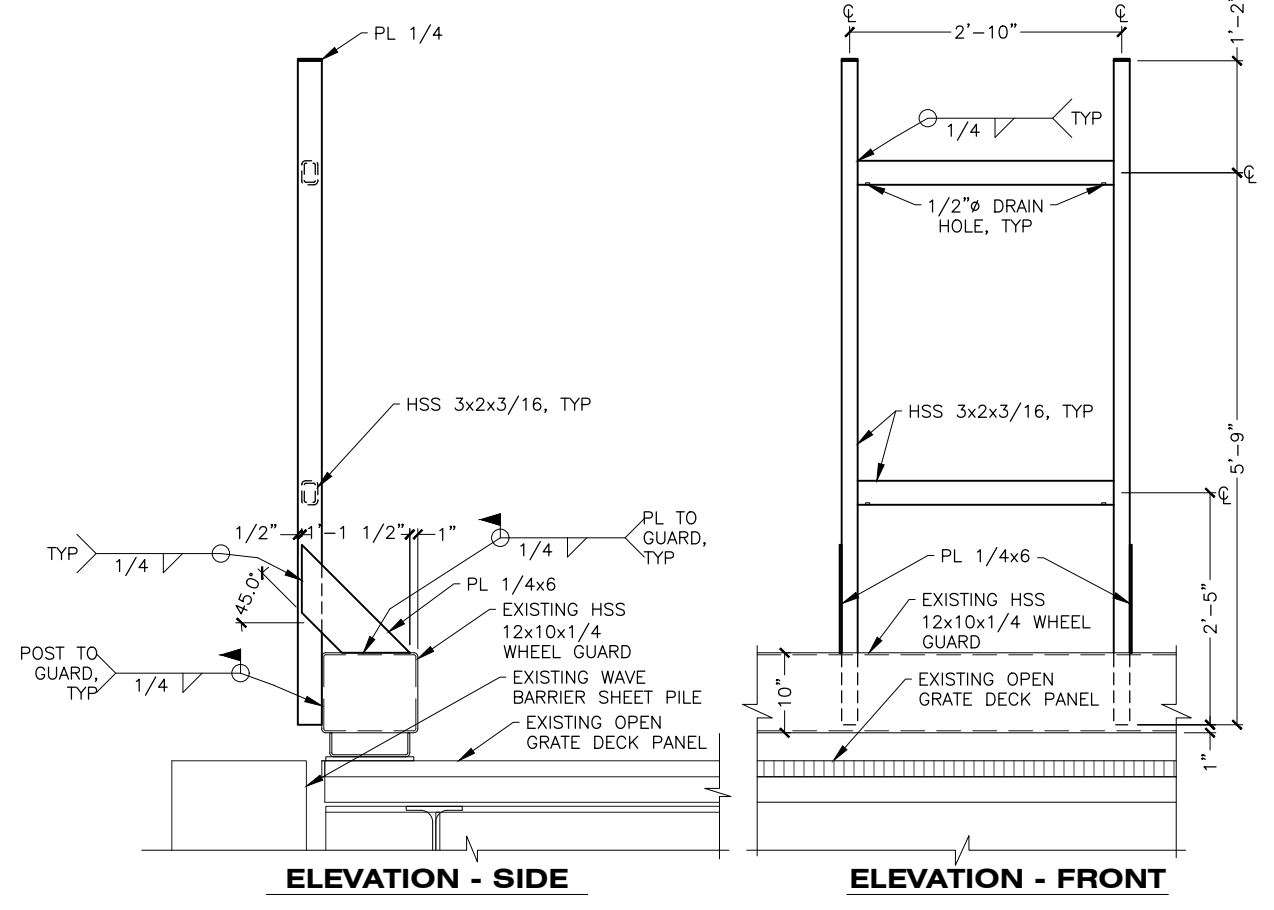
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	338	145



C SECURITY FENCE ELEVATION
336/338



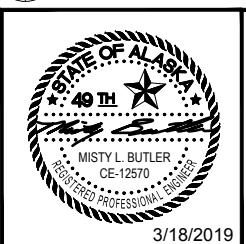
D SECURITY FENCE ELEVATION
336/338



9 CONDUIT RACK
301/338

SECURITY FENCE NOTES:
 1. FENCE FABRIC: 9 GAUGE GALV. FABRIC, 6' HIGH, KNUCKLE SELVAGE. ATTACH TO POSTS, TOP RAILS, AND WIRE PER STD. DWG. F-01.01.
 2. GATES: 2" STD. PIPE SIDES, TOP, BOTTOM, INTERIOR VERTICALS, & INTERIOR HORIZONTALS; AND 9 GAUGE DIAGONAL TENSION WIRE W/ TURNBUCKLES; AS SHOWN.
 3. FENCE DIAGONALS AND TOP RAILS: 1 1/4" STD PIPE PLACED AS SHOWN.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



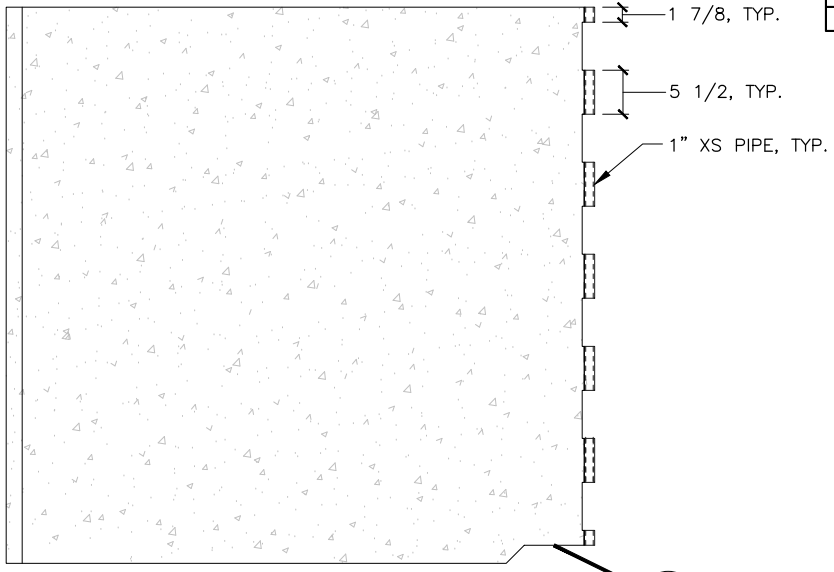
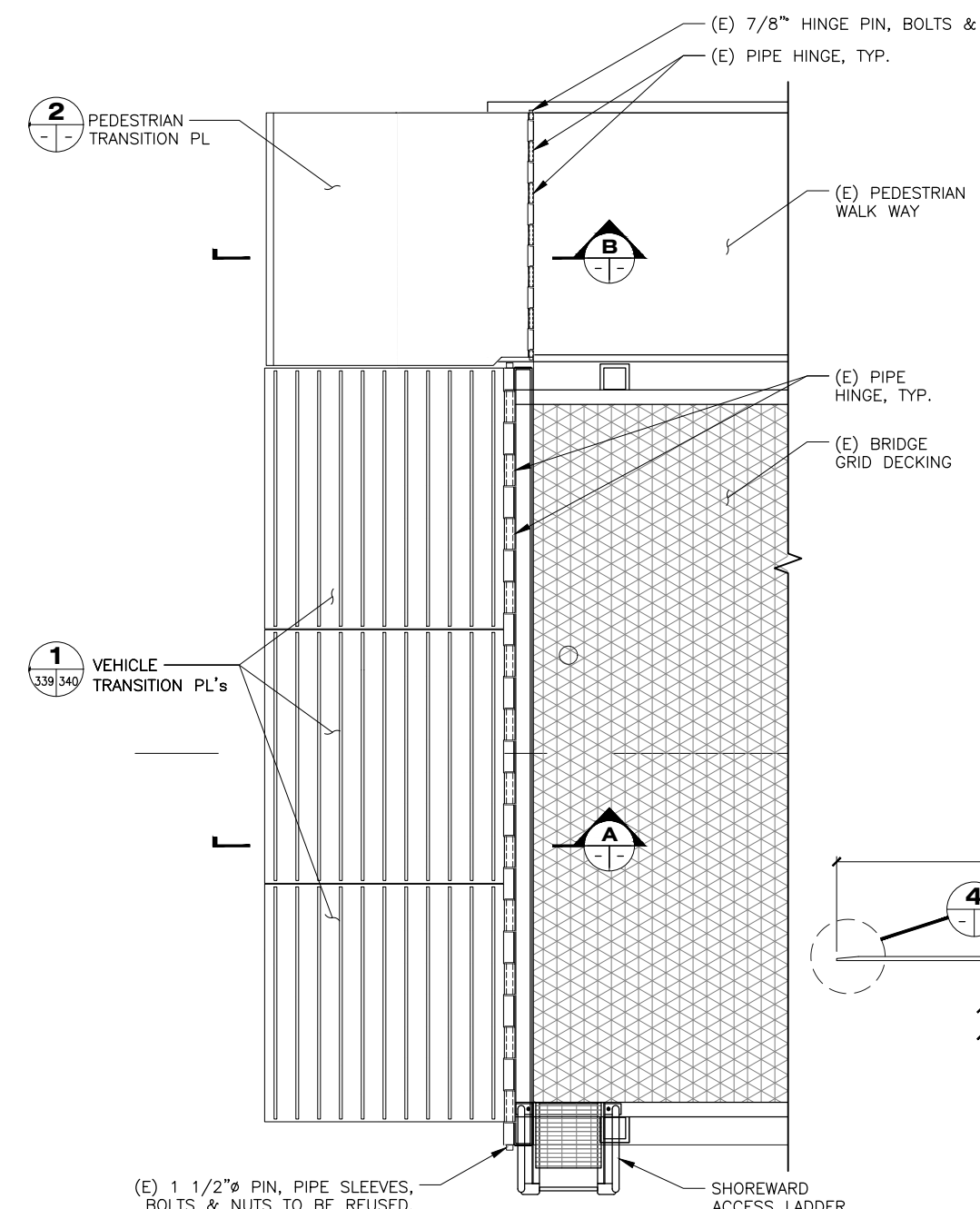
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS
TRANSFER BRIDGE SECURITY FENCE DETAILS
 3/18/2019

HH 10/01/2024

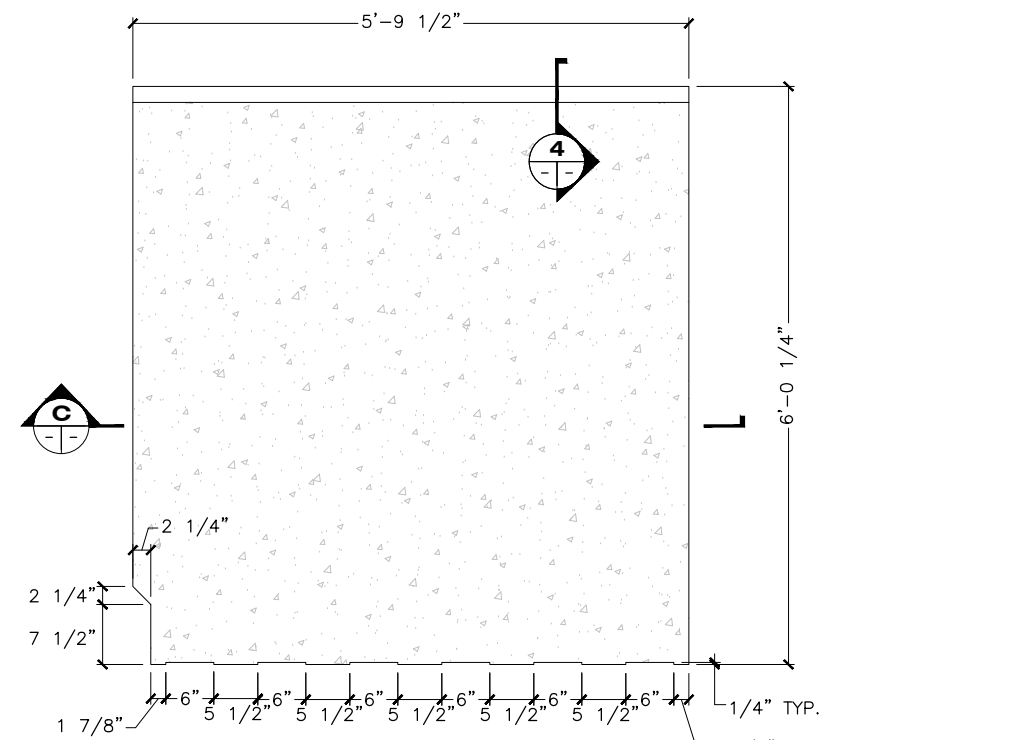
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 CHECKED: STAFF
 DRAFTED: STAFF

FILE Q:\Gus\68128\WF\PLANSET\339-340 - BRIDGE - TRANSITION PLATE DETAILS.dwg DATE 3/19/2019 9:04 LAYOUT 339 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

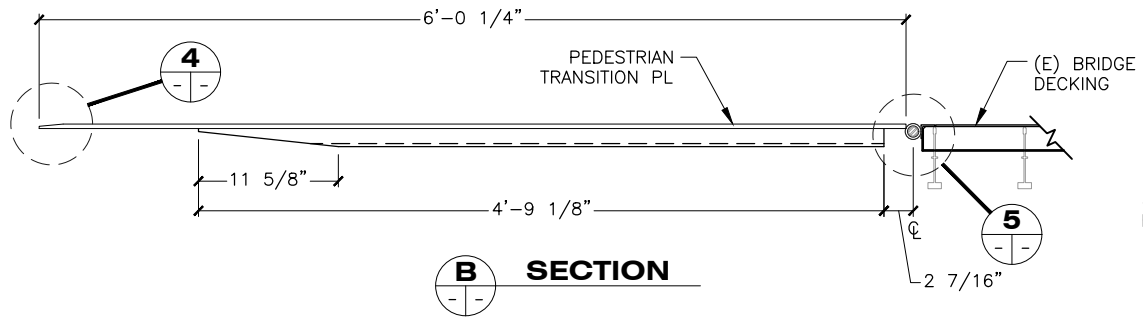
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	339	145



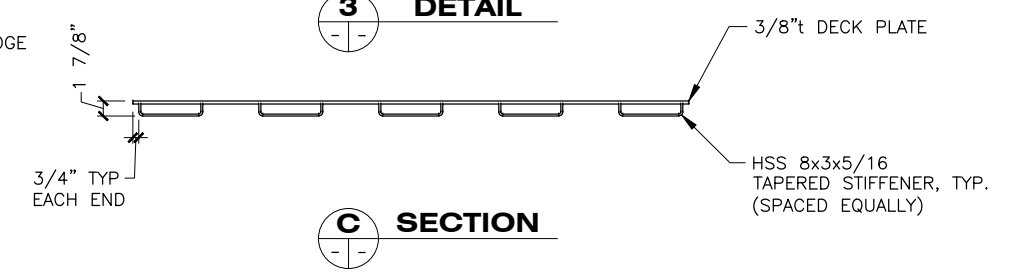
2 PEDESTRIAN TRANSITION PL
PLAN



3 DETAIL

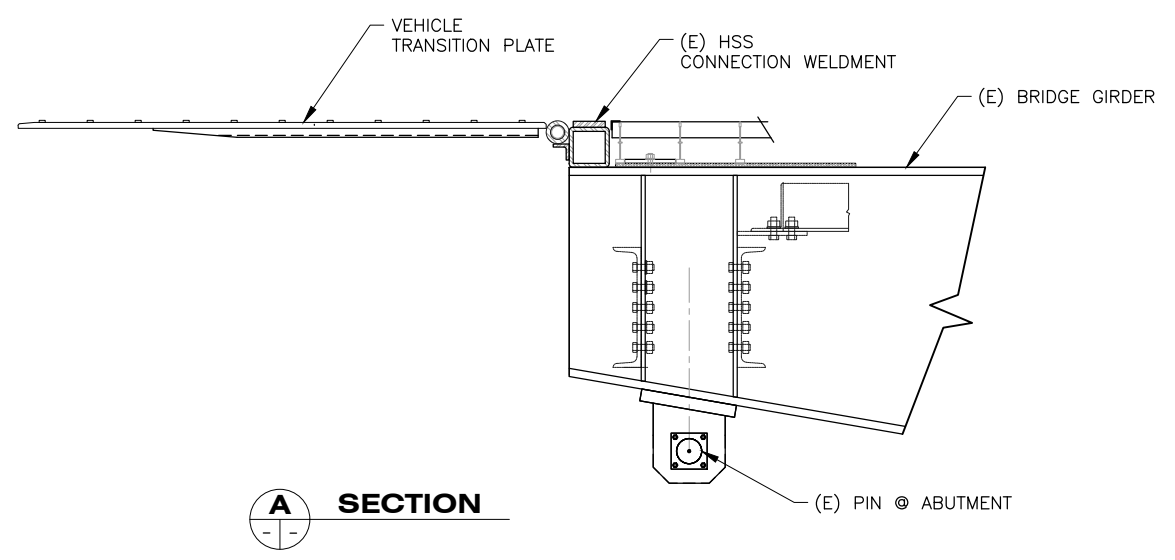


B SECTION

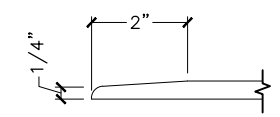


C SECTION

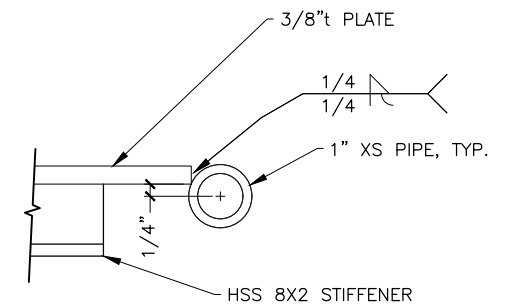
1 SHOREWARD END - BRIDGE TRANSITION PLATE
PLAN



A SECTION



4 DETAIL



5 DETAIL

COAT TOP SURFACE OF PEDESTRIAN TRANSITION PLATE IN ACCORDANCE WITH SECTION 513 - SYSTEM 7A EPOXY NONSKID.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

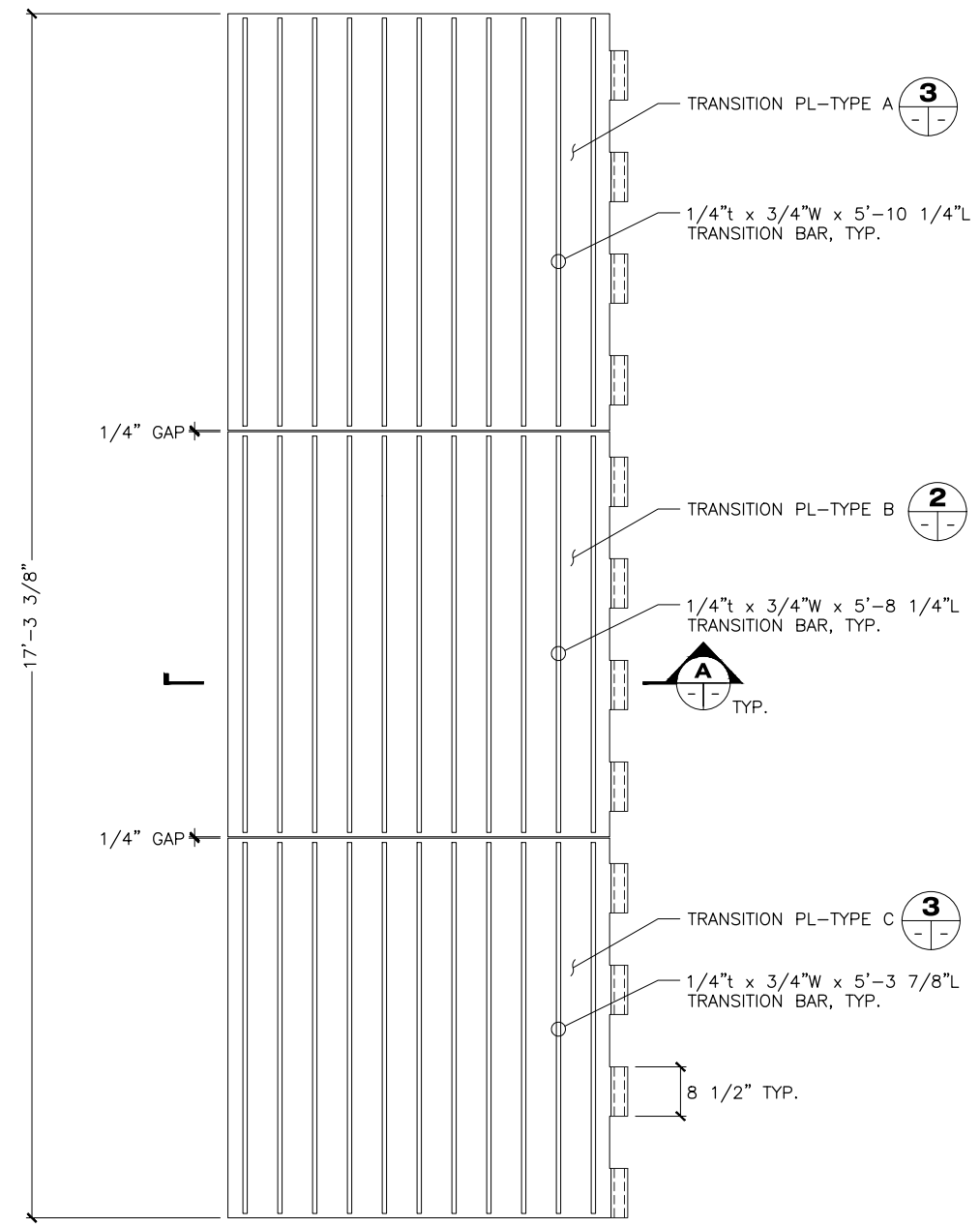
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

BRIDGE TRANSITION PLATE DETAILS

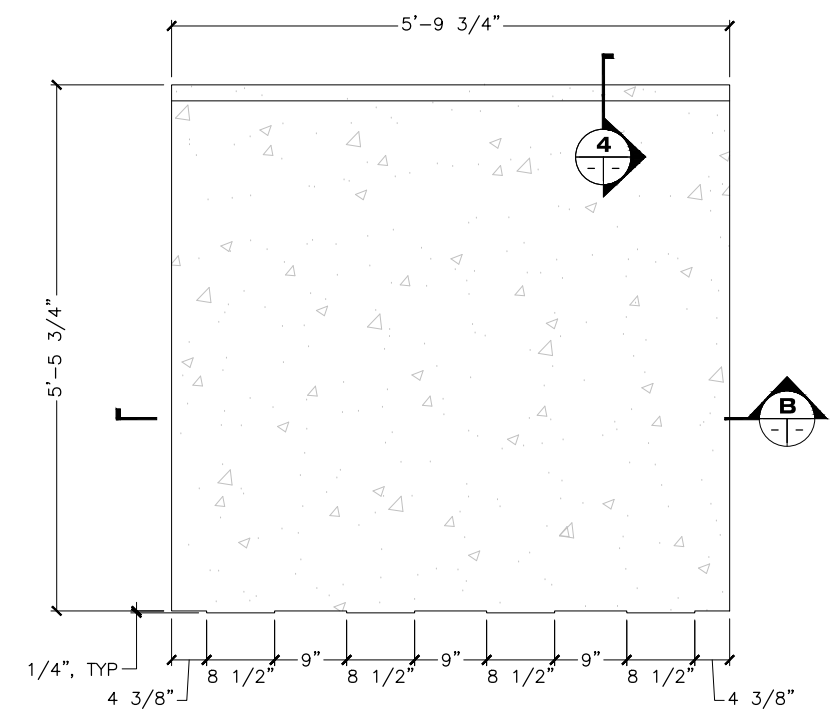
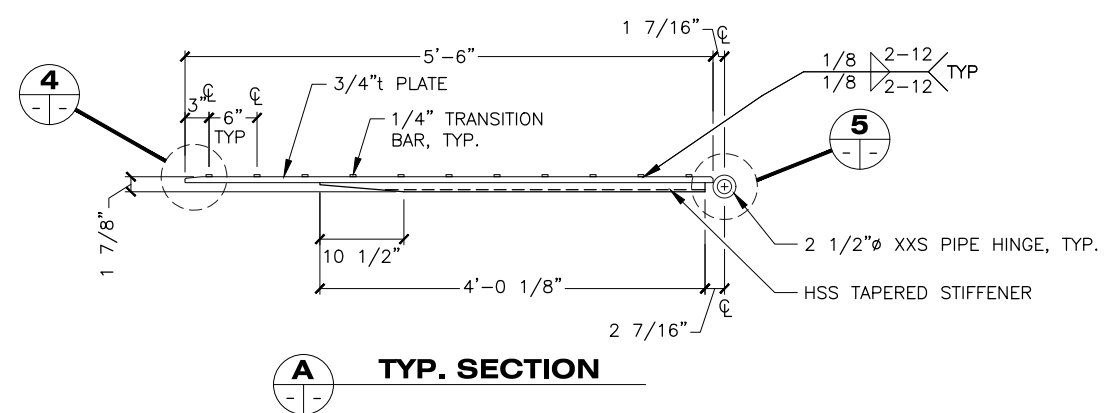
HH 10/01/2024

3/18/2019

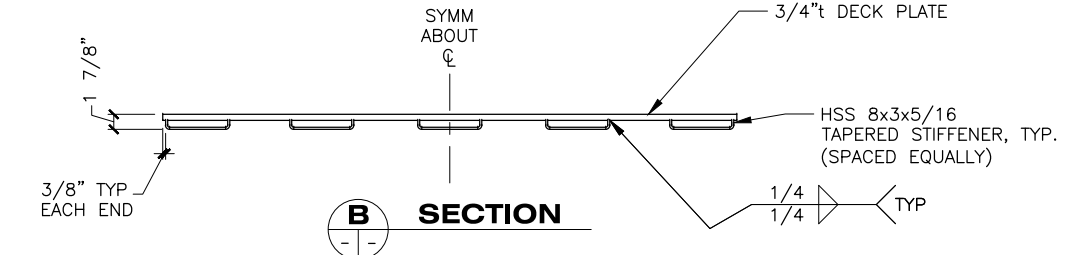
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	340	145



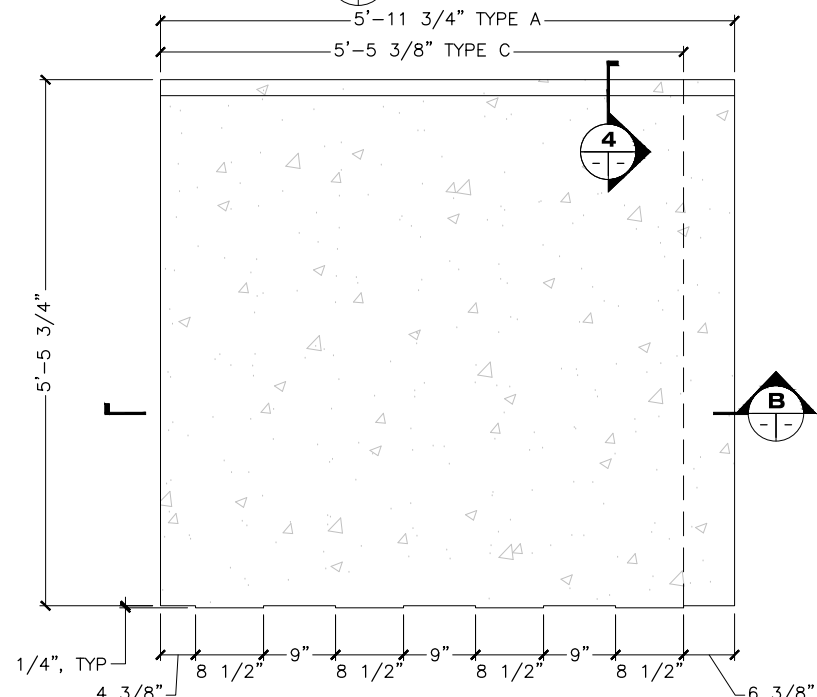
1 VEHICLE TRANSITION PLATES
PLAN



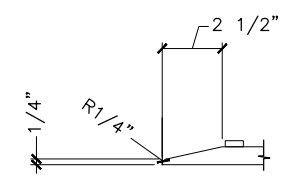
2 TRANSITION PLATE - TYPE B
PLAN (1 TOTAL)



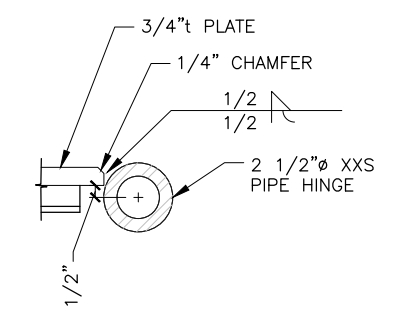
B SECTION



3 TRANSITION PLATE - TYPE A
TYPE C (OPP. HAND)



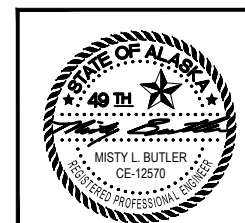
4 DETAIL



5 DETAIL

COAT TOP SURFACES OF TRANSITION PLATES A, B & C IN ACCORDANCE WITH SECTION 513 - SYSTEM 7A - EPOXY NONSKID COATING

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

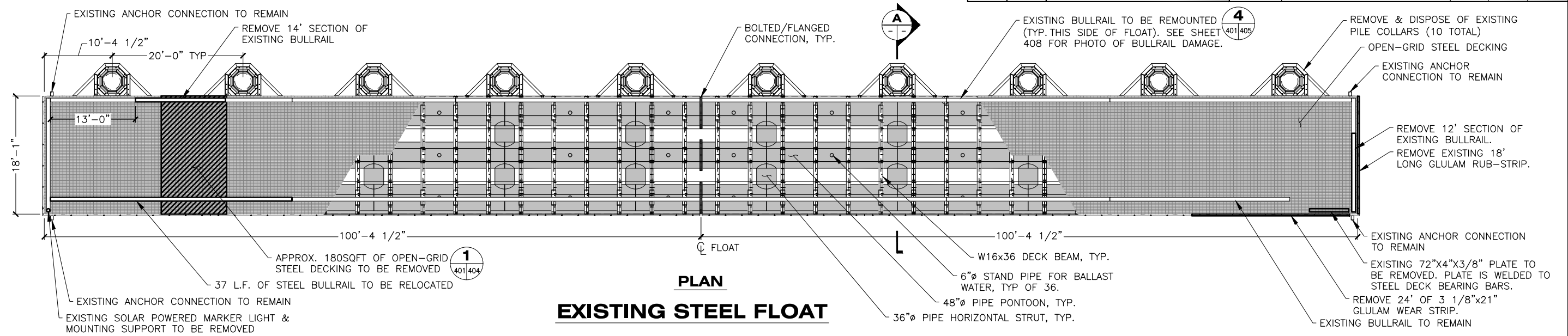
VEHICLE TRANSITION PLATE DETAILS

HH 10/01/2024

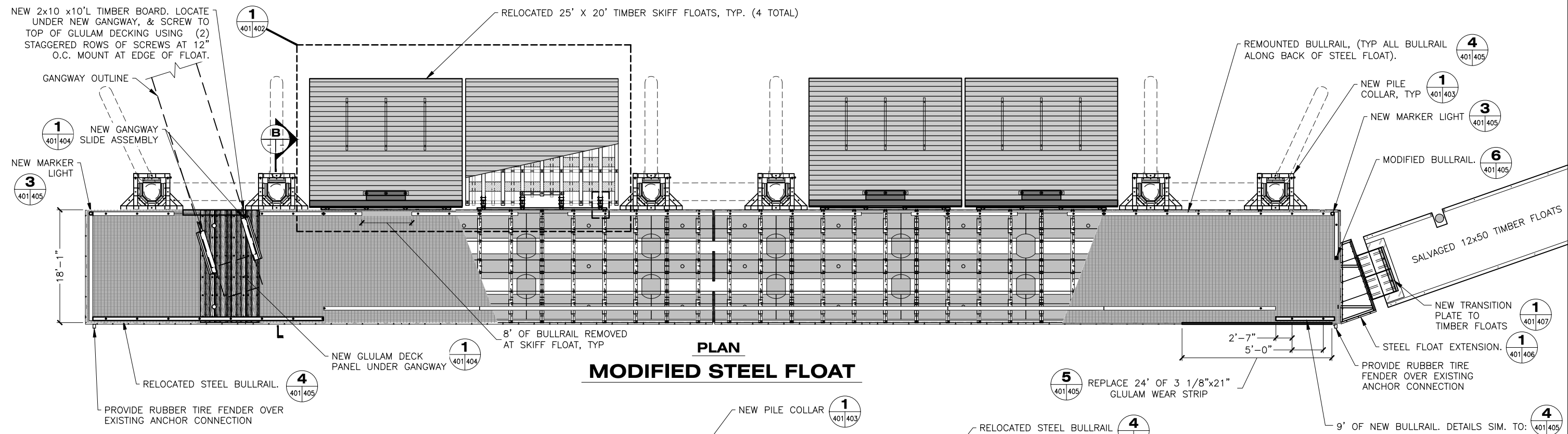
FILE Q:\Gus\68128\WF\PLANSET\339-340 - BRIDGE - TRANSITION PLATE DETAILS.dwg DATE 3/19/2019 9:04 LAYOUT 340 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

FILE: Q:\us\68128\WF\PLANSET\401-410 - STEEL FLOAT MODS.dwg
 DATE: 3/18/2019 14:08 LAYOUT: 401
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

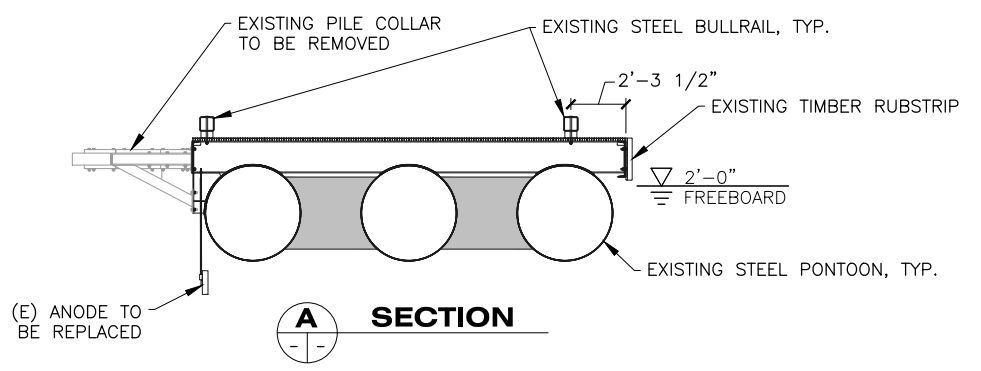
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	401	145



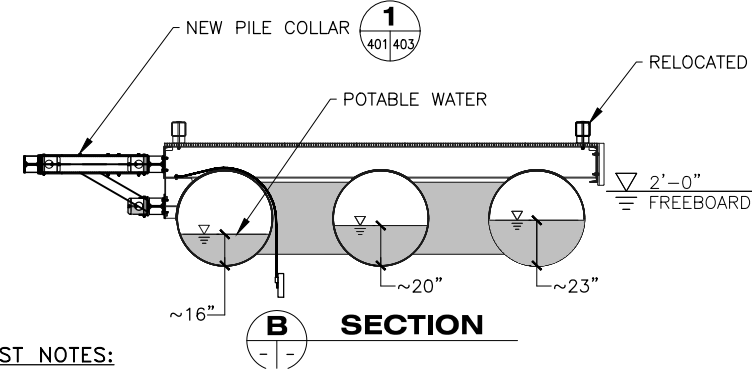
PLAN
EXISTING STEEL FLOAT



PLAN
MODIFIED STEEL FLOAT



SECTION A



SECTION B

- BALLAST NOTES:**
- FLOAT SHALL BE BALLASTED TO LEVEL FLOAT. BALLAST DEPTHS SHOWN ARE FOR REFERENCE ONLY. ADJUST AS DIRECTED BY ENGINEER.
 - WATER LEVEL ALONG LENGTH OF EACH PONTOON SHALL BE UNIFORM & NOT VARY IN DEPTH.

NOTE:
REFERENCE AS-BUILT DRAWINGS FOR PROJECT NO. 69909 FOR EXISTING FLOAT FEATURES NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

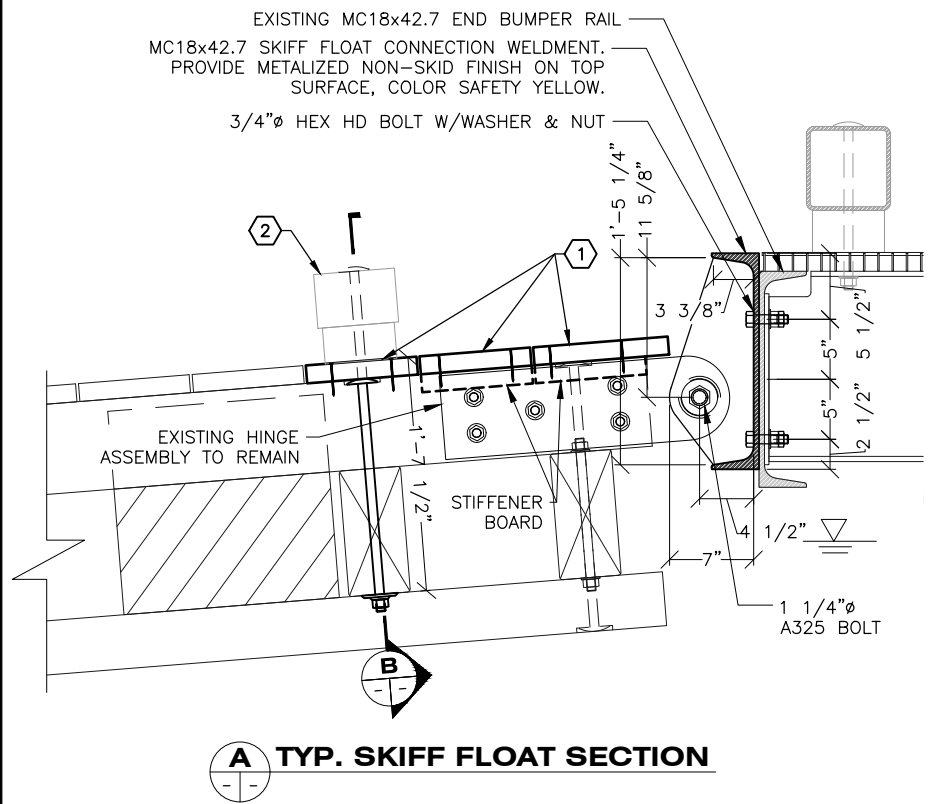
STEEL FLOAT MODIFICATIONS
HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

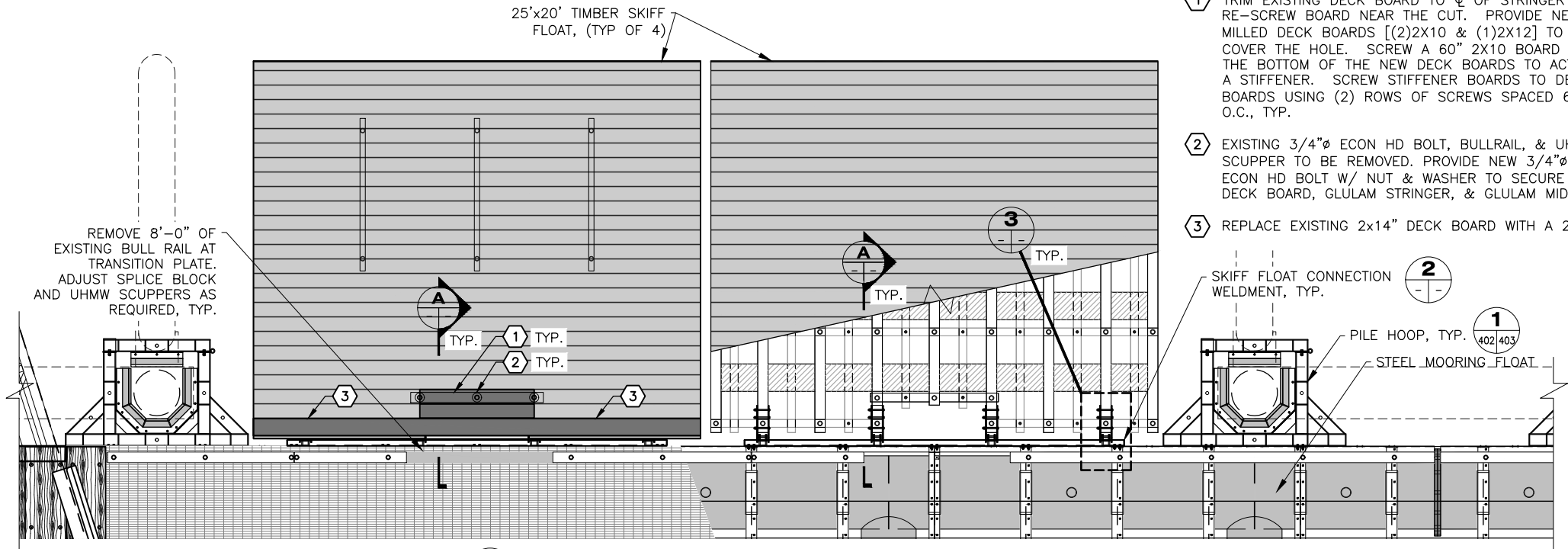
3/18/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	402	145

FILE: G:\us\68128\WF\PLANSET\401-410 - STEEL FLOAT MODS.dwg
 DATE: 3/18/2019 14:08 LAYOUT: 402
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

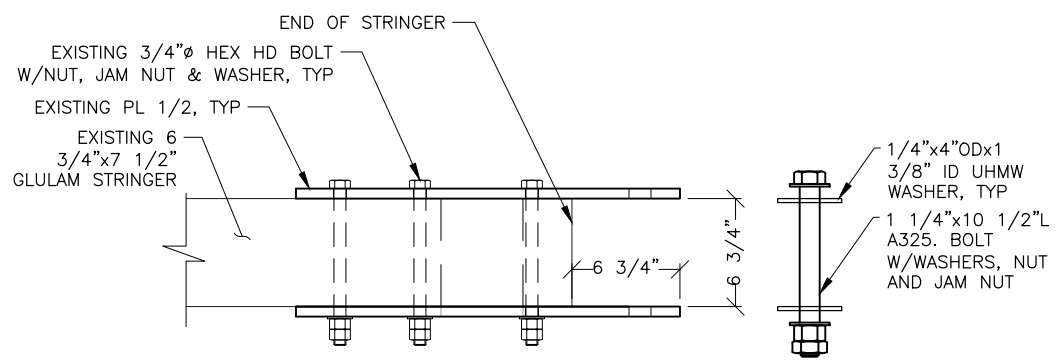


A TYP. SKIFF FLOAT SECTION

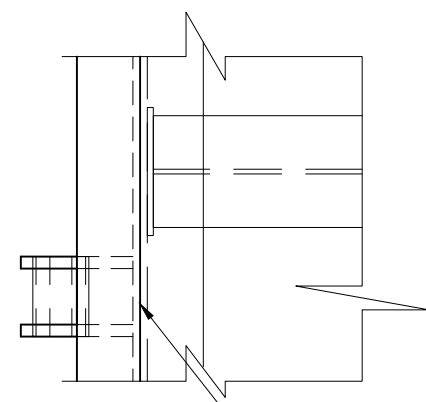


1 TYPICAL SKIFF FLOAT CONNECTION - PLAN

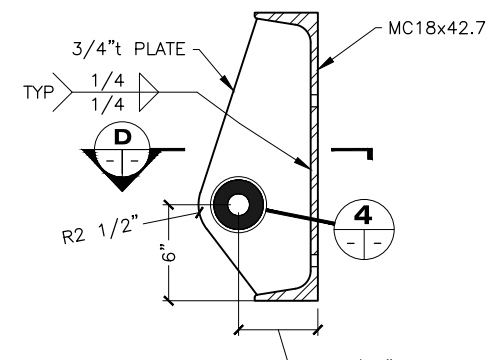
- SKIFF FLOAT NOTES:**
- TRIM EXISTING DECK BOARD TO CL OF STRINGER & RE-SCREW BOARD NEAR THE CUT. PROVIDE NEW MILLED DECK BOARDS [(2)2X10 & (1)2X12] TO COVER THE HOLE. SCREW A 60" 2X10 BOARD TO THE BOTTOM OF THE NEW DECK BOARDS TO ACT AS A STIFFENER. SCREW STIFFENER BOARDS TO DECK BOARDS USING (2) ROWS OF SCREWS SPACED 6" O.C., TYP.
 - EXISTING 3/4" ECON HD BOLT, BULLRAIL, & UHMW SCUPPER TO BE REMOVED. PROVIDE NEW 3/4" ECON HD BOLT W/ NUT & WASHER TO SECURE NEW DECK BOARD, GLULAM STRINGER, & GLULAM MID-SILL.
 - REPLACE EXISTING 2x14" DECK BOARD WITH A 2x12.



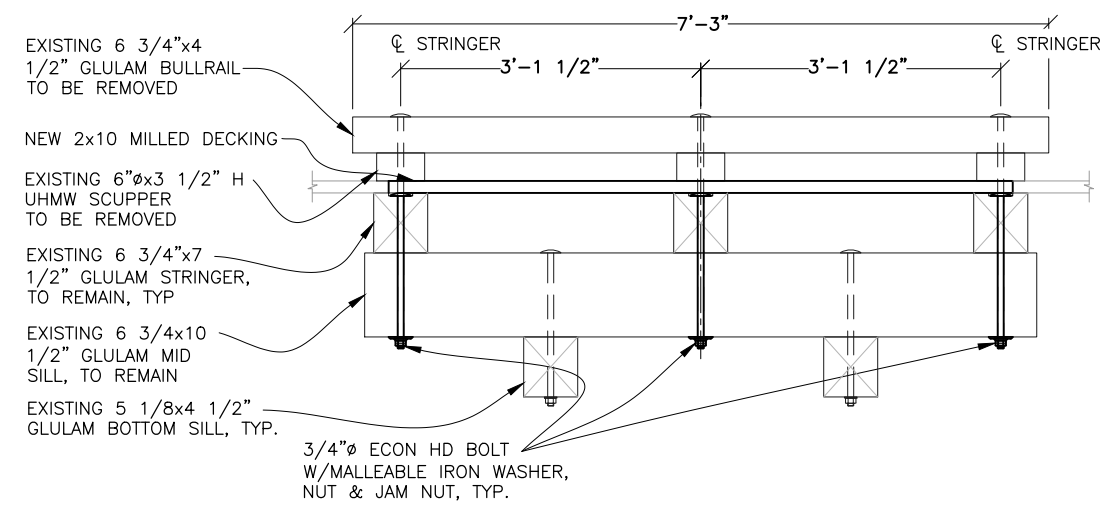
3 TYP SKIFF FLOAT HINGE ASSEMBLY



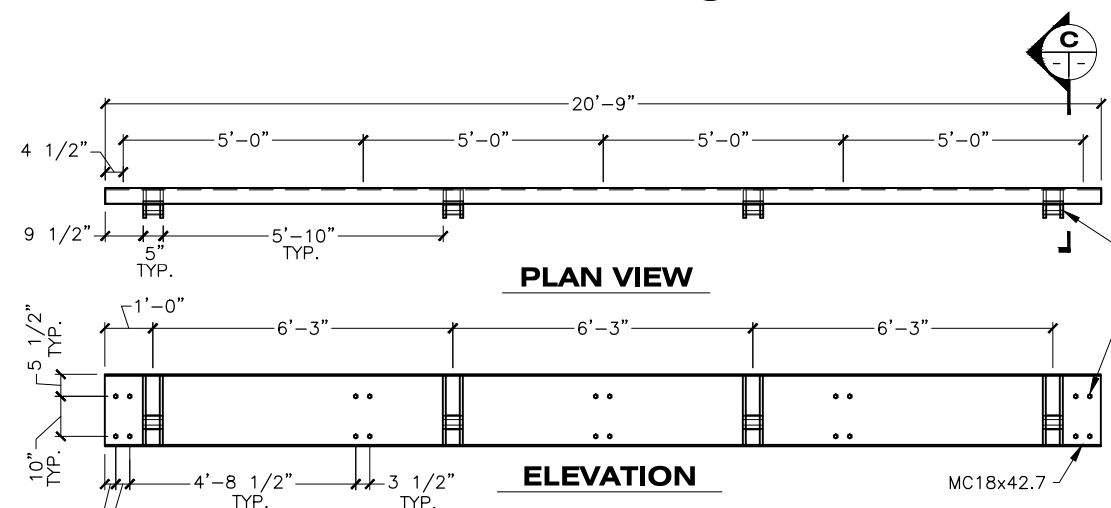
2 SKIFF FLOAT CONNECTION WELDMENT



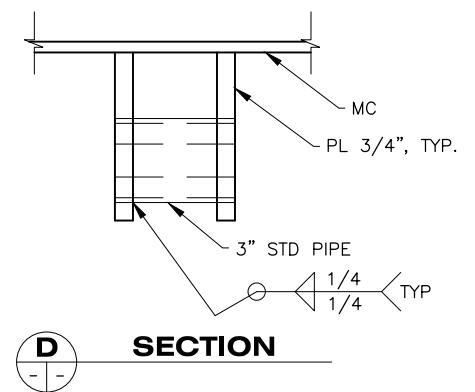
4 SKIFF HINGE DETAIL



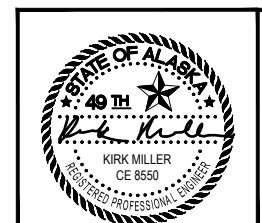
B SKIFF FLOAT BULL RAIL MODIFICATIONS



2 SKIFF FLOAT CONNECTION WELDMENT (4 TOTAL)



D SECTION



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

SKIFF FLOAT MODIFICATIONS

HH 10/01/2024

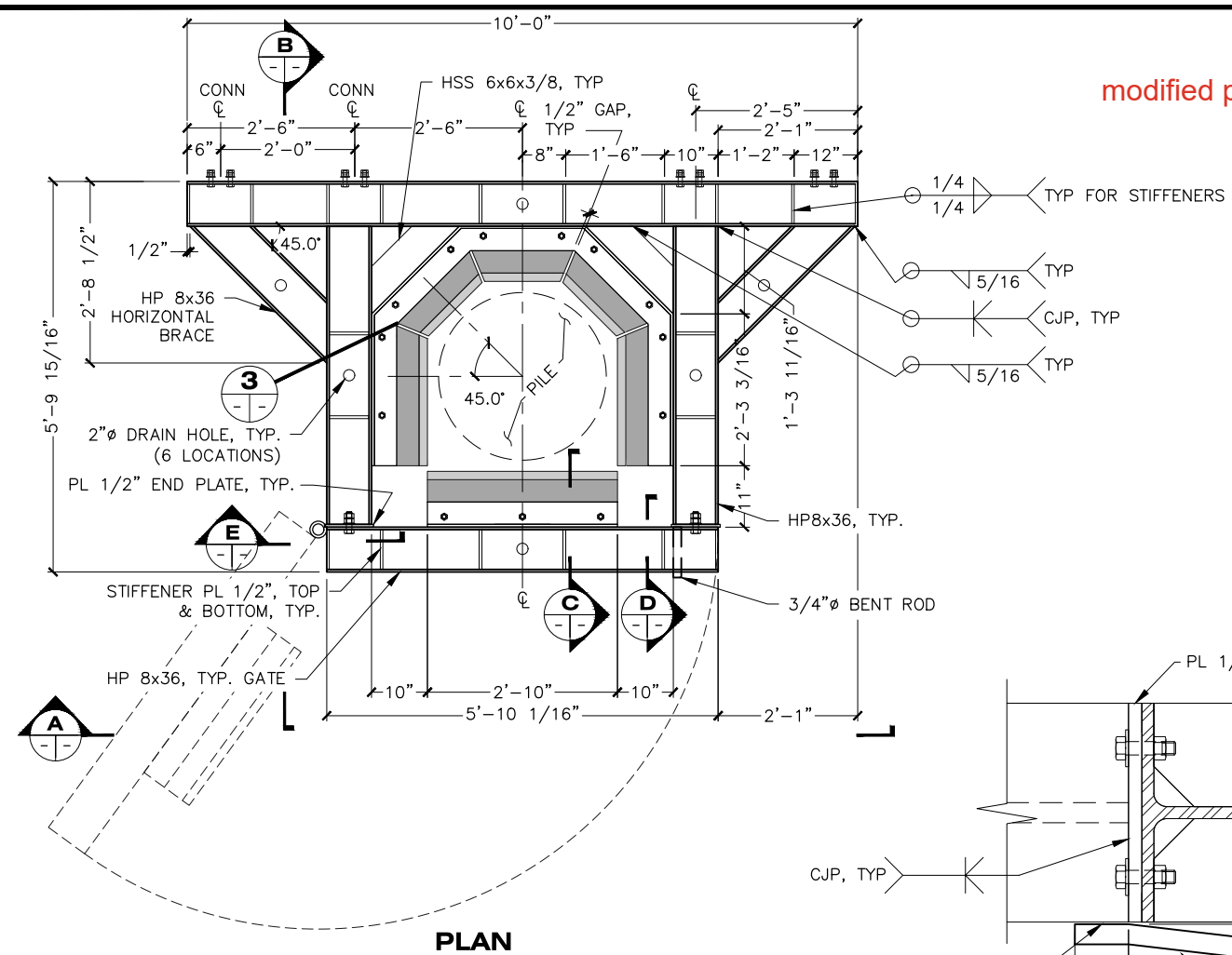
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

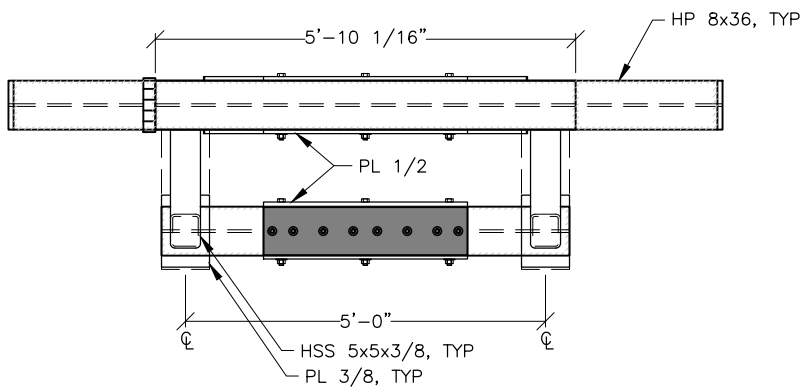
FILE: G:\us\68128\WF\PLANSET\401-410 - STEEL FLOAT MODS.dwg
 DATE: 3/18/2019 14:08 LAYOUT: 403 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	403	145

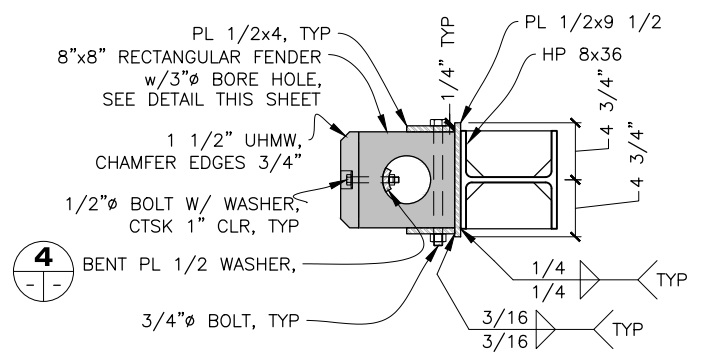
modified per CO #10 see next sheet



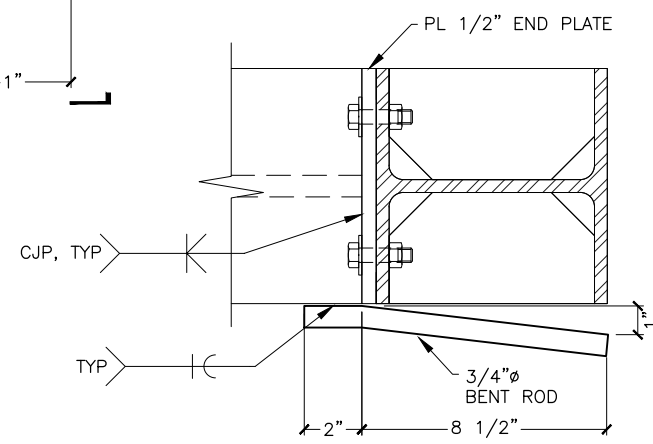
1 STEEL FLOAT PILE COLLAR
 (6 TOTAL)
 401/403
 402



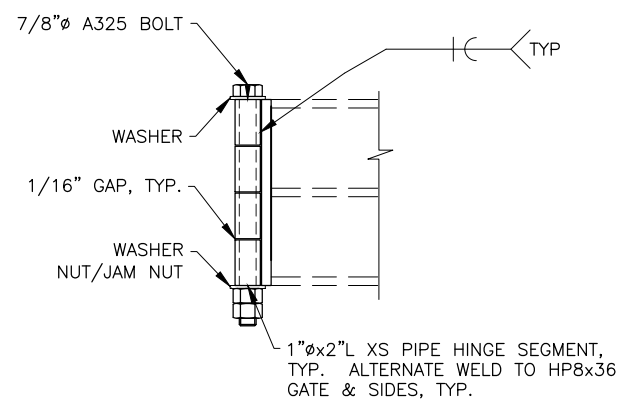
A STEEL FRONT PILE COLLAR FRONT ELEVATION



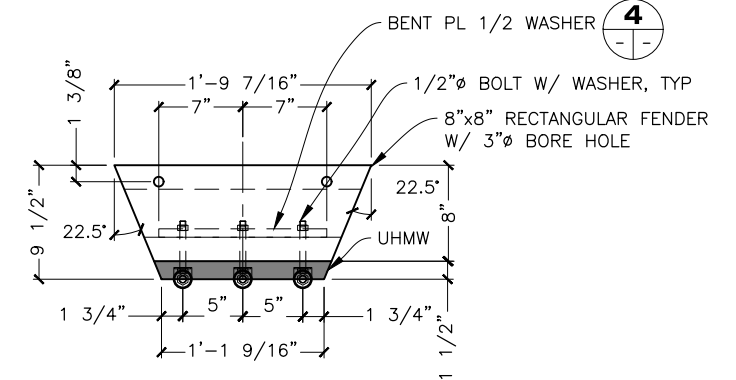
C FENDER SECTION



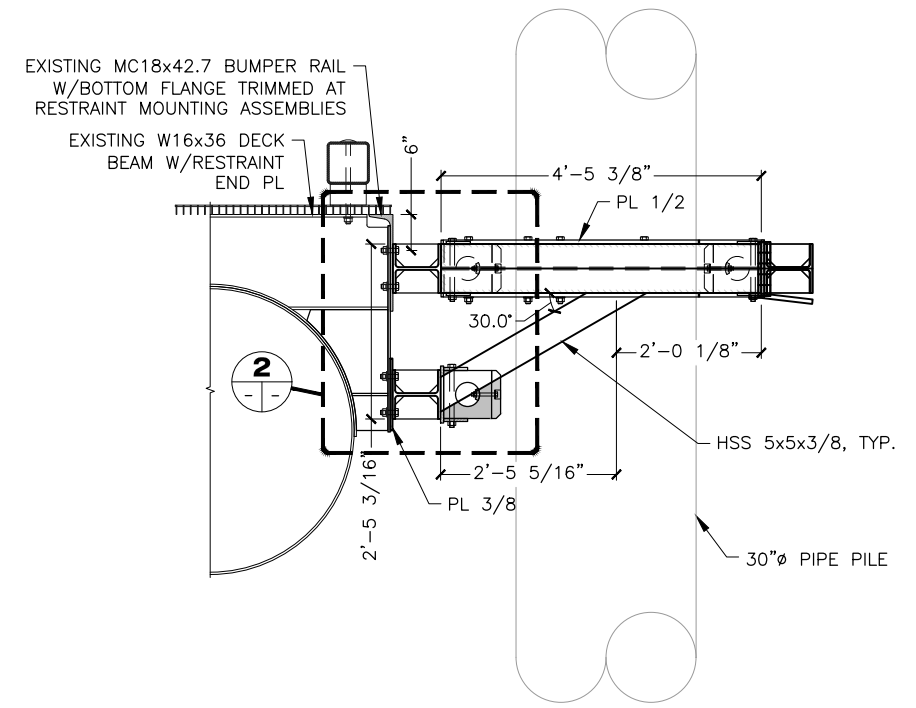
D SECTION



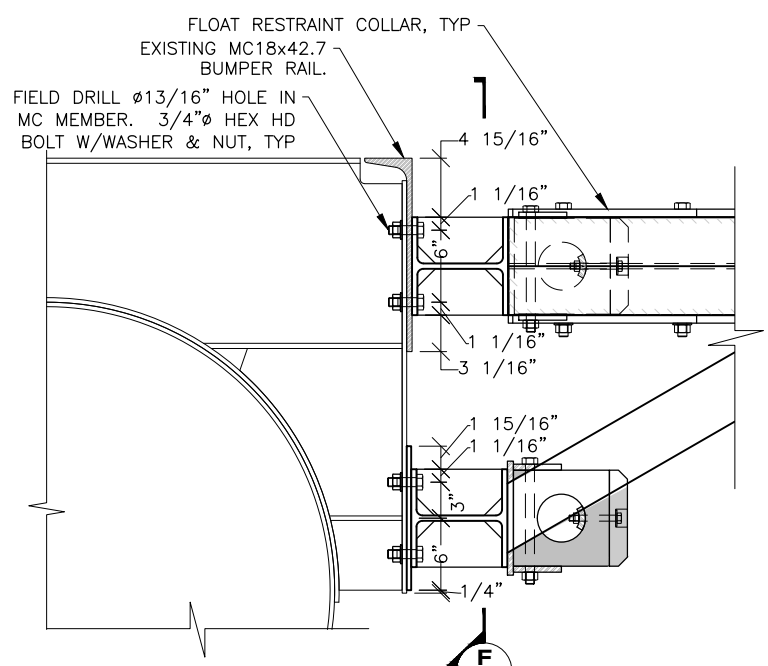
E SECTION AT HINGE



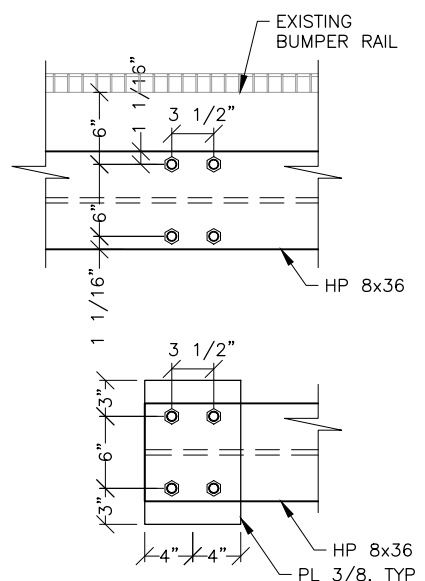
3 TYP TAPERED FENDER PLAN



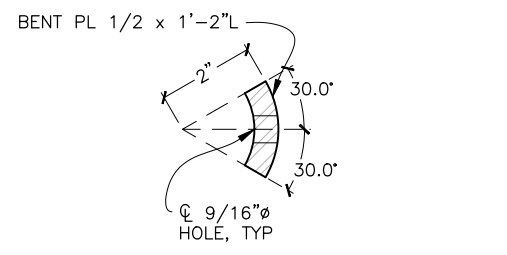
B STEEL FLOAT PILE COLLAR SIDE ELEVATION



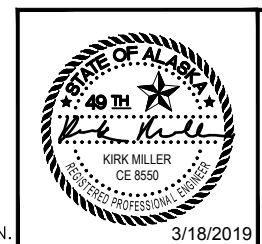
2 COLLAR MOUNTING DETAIL



F SECTION



4 BENT PL WASHER DETAIL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

STEEL FLOAT PILE HOOP DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

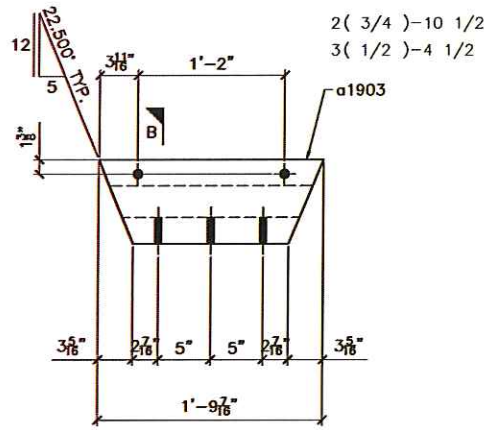
HH 10/01/2024

AK DOT 4-11-2022

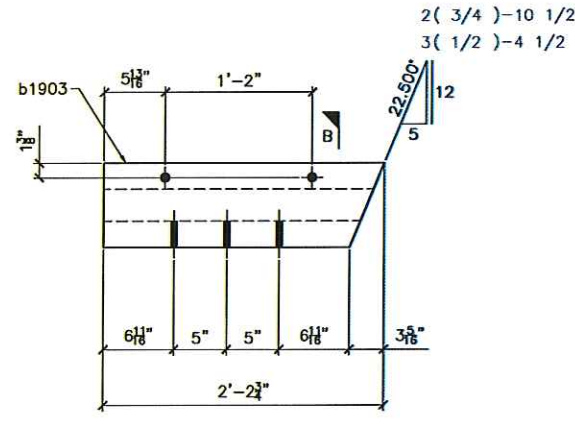
modifications to sheet 403

CO#10 - Attachment #3

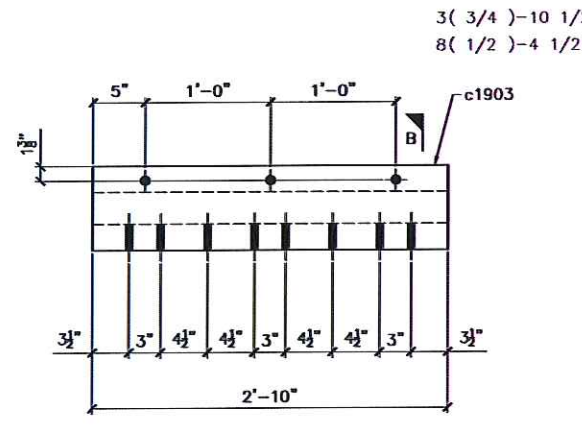
BILL OF MATERIAL											
MARK	ZONE	QTY	SHIP MARK	PIECE MARK	TYPE	DESCRIPTION	LENGTH		WEIGHT	MATERIAL GRADE	REMARKS
							FT	IN			
18			1903A		MI	FENDERS					
18			a1903		MI	8x8 FENDER	1	9	7/16		
12			1903B		MI	FENDERS					
12			b1903		MI	8x8 FENDER	2	2	3/4		
12			1903C		MI	FENDERS					
12			c1903		MI	8x8 FENDER	2	10			
18			1903D		MI	UHMW					
18			a19002		MI	1-1/2x8	1	2	13/16	D4020	UHMW
12			1903F		MI	UHMW					
12			b19002		MI	1-1/2x8	1	11	3/8	D4020	UHMW
12			1903G		MI	UHMW					
12			c19002		MI	1-1/2x8	2	10		D4020	UHMW



18 - 1903A - FENDERS
3/SHEET 403



12 - 1903B - FENDERS

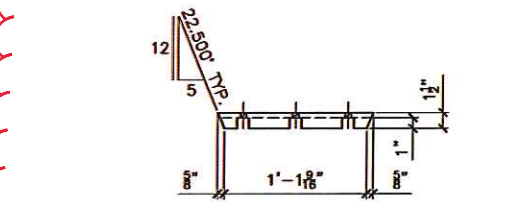


12 - 1903C - FENDERS

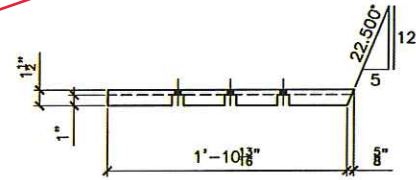
SUPPLY 6 TOTAL.
INCLUDE MOUNTING
HARDWARE.

SUPPLY 6 TOTAL.

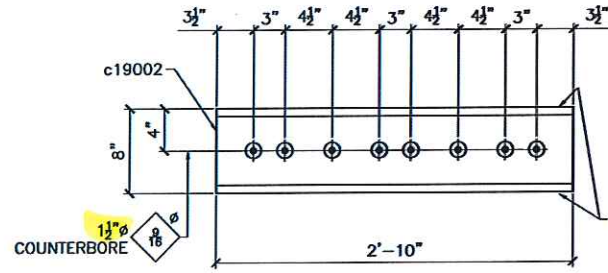
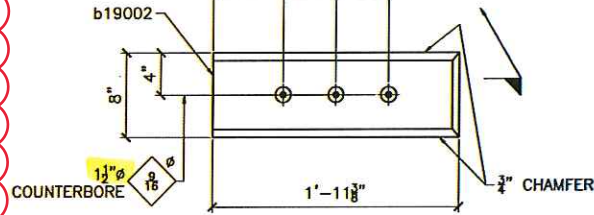
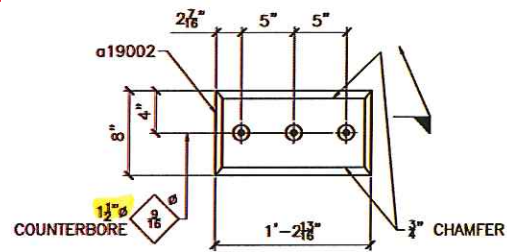
SUPPLY 6 TOTAL



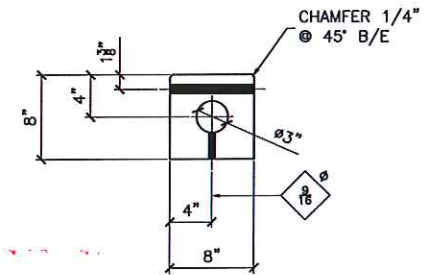
18 - 1903D - UHMW



12 - 1903F - UHMW



12 - 1903G - UHMW



SECTION B

State of Alaska
Dept. of Transportation and Public Facilities
Marine Facilities Engineering

CONTRACTOR SUBMITTAL REVIEW

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site for information that this is solely to the fabrication process or to techniques of construction and for coordination of the work of all trades.

ACCEPTED _____
ACCEPTED AS NOTED _____
RETURNED FOR CORRECTION _____

Date 11/15/19 Project Engineer NG

TOLERANCES
(UNLESS OTHERWISE SPECIFIED)
3 PLACE DECIMALS: ± .01
2 PLACE DECIMALS: ± .03
FRACTIONS: ± 1/16
ANGLES: ± 2'
MACHINE FINISHES: 125/U.N.

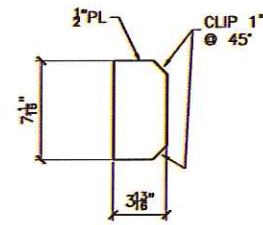
VERIFICATION OF DIMENSIONS, DETAILS, ETC., ARE REQUESTED WHERE INDICATED. EACH REQUEST FOR VERIFICATION WILL BE ASSUMED CORRECT UNLESS NOTED OTHERWISE.

REV	DATE	DESCRIPTION
96	HS	3/4 10 1/2 A325 GALV.
186	HS	1/2 4 1/2 A325 GALV.
		NET FIELD BOLTS
		MATERIAL: NOTED
		FINISH: NONE
		HOLES: 13/16" DIA. U/N
		WELD:
		REF. DRAWING: SHEET 403
		CONTRACTOR: WESTERN MARINE CONSTRUCTION
		ARCHITECT: STATE OF ALASKA
		DEALER: WEST COAST DRAFTING
		SEPTE 19/19 REVISED PER SUBMITTAL
		AUG 21/19 FOR APPROVAL
		PROJECT: GUSTAVUS FERRY TERMINAL IMPROVEMENTS
		TITLE: FENDER/UHMW - BID ITEM 504.MF40.0021
		DRAWN: CC CHK: MD
		PROJECT NO. 208119 DRAWING NO. 1803 SHEET NO. 1 OF 1

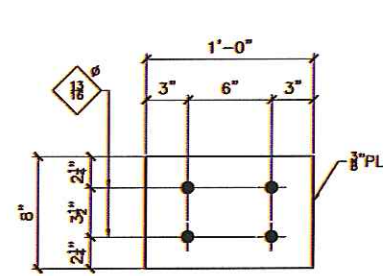
FOR APPROVAL ONLY
JESSE COMPANY
11/14/19 Larry Giles

HH 10/01/2024

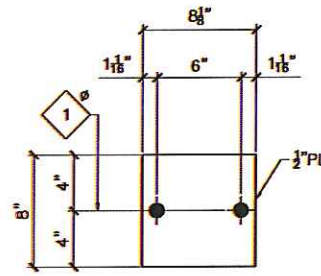
BILL OF MATERIAL									
QTY	SHP MARK	PIECE MARK	TYPE	DESCRIPTION	LENGTH		WEIGHT	MATERIAL GRADE	REMARKS
					FT	IN			
216		a19001	PL	1/2X3-13/16		7 1/16	825	A709-50	
12		b19001	PL	3/8X8	1	0	123	A709-50	
12		c19001	PL	1/2X8		8 1/8	111	A709-50	
24		d19001	PL	1/2X4	2	3	368	A709-50	
36		f19001	PL	1/2X4	1	9 15/16	448	A709-50	
24		g19001	PL	1/2X4	2	10	463	A709-50	
12		h19001	PL	1/2X8		8 1/8	111	A709-50	
30		n19001	PL	1/2X1-13/16	1	2	108	A709-50	BEND
12		p19001	PL	1/2X1-13/16	2	10	105	A709-50	BEND



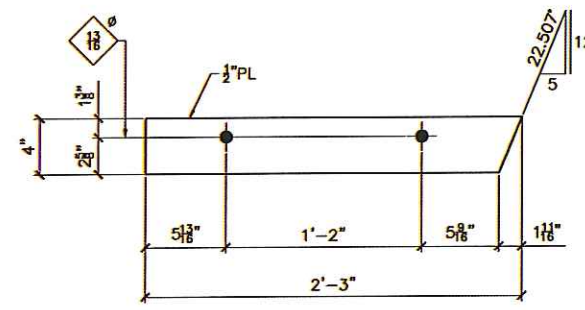
216 - a19001 - PLATE



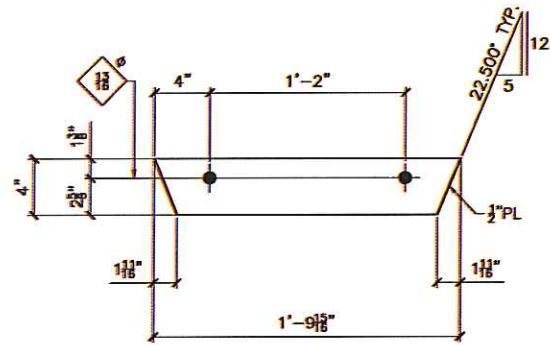
12 - b19001 - PLATE



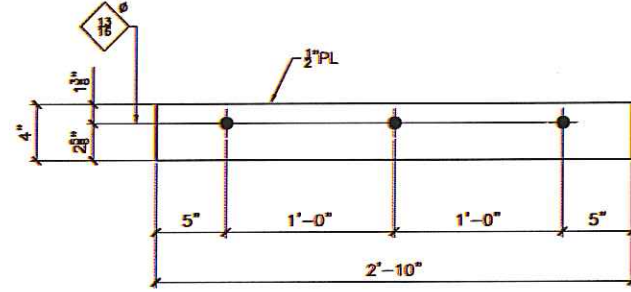
12 - c19001 - PLATE



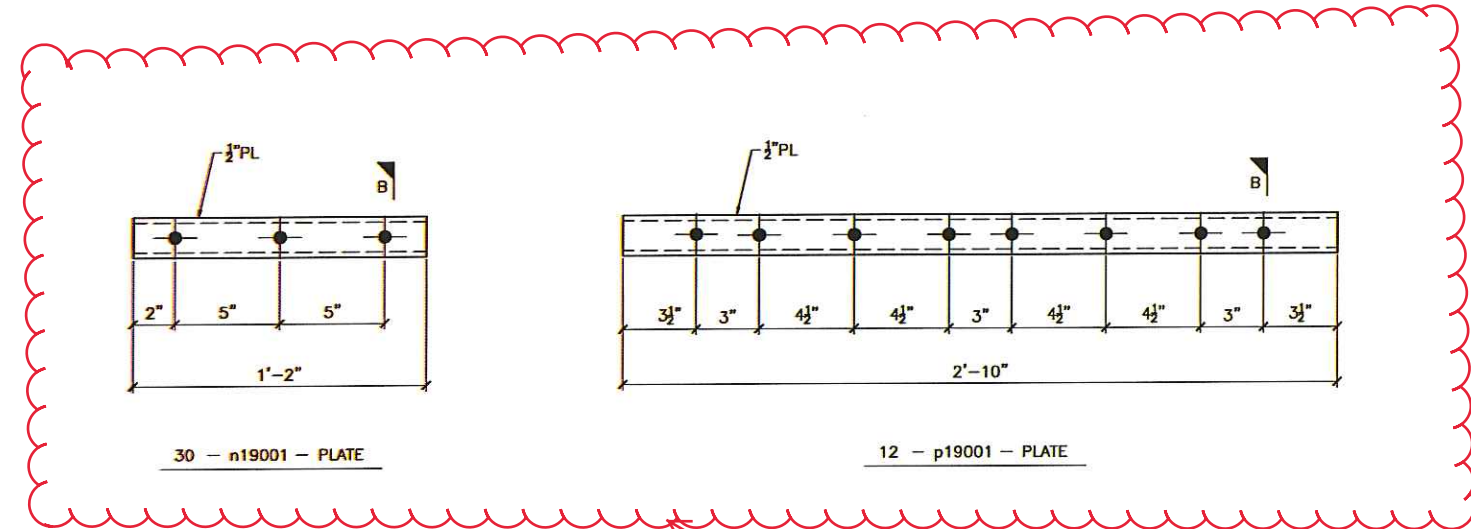
24 - d19001 - PLATE



36 - f19001 - PLATE



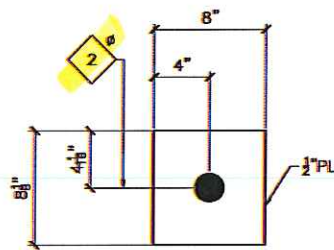
24 - g19001 - PLATE



30 - n19001 - PLATE

12 - p19001 - PLATE

SUPPLY 6 EACH.
INCLUDE MOUNTING
HARDWARE



12 - h19001 - PLATE

State of Alaska
Dept. of Transportation and Public Facilities
Marine Facilities Engineering

CONTRACTOR SUBMITTAL REVIEW

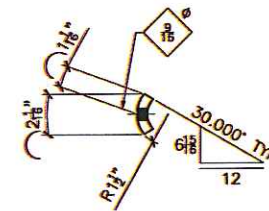
Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site for information that pertains solely to the fabrication process or to techniques of construction and for coordination of the work of all trades.

ACCEPTED

ACCEPTED AS NOTED

RETURNED FOR CORRECTION

Date 11/15/19 Projec. Engineer NG



SECTION B

FOR APPROVAL ONLY
JESSE COMPANY
11/14/19 Larry Giles

TOLERANCES (UNLESS OTHERWISE SPECIFIED)	
3 PLACE DECIMALS:	± .01
2 PLACE DECIMALS:	± .03
FRACTIONS:	± 1/16
ANGLES:	± 2'
MACHINE FINISHES:	125/U.N.

VERIFICATION OF DIMENSIONS, DETAILS, ETC., ARE REQUESTED WHERE INDICATED. EACH REQUEST FOR VERIFICATION WILL BE ASSUMED CORRECT UNLESS NOTED OTHERWISE.

MATERIAL: NOTED	WELD:
FINISH: NONE	
HOLES: NOTED	
REF. DRAWING: SHEET 403	
CONTRACTOR: WESTERN MARINE CONSTRUCTION	
ARCHITECT: STATE OF ALASKA	
DETAILER: WEST COAST DRAFTING	

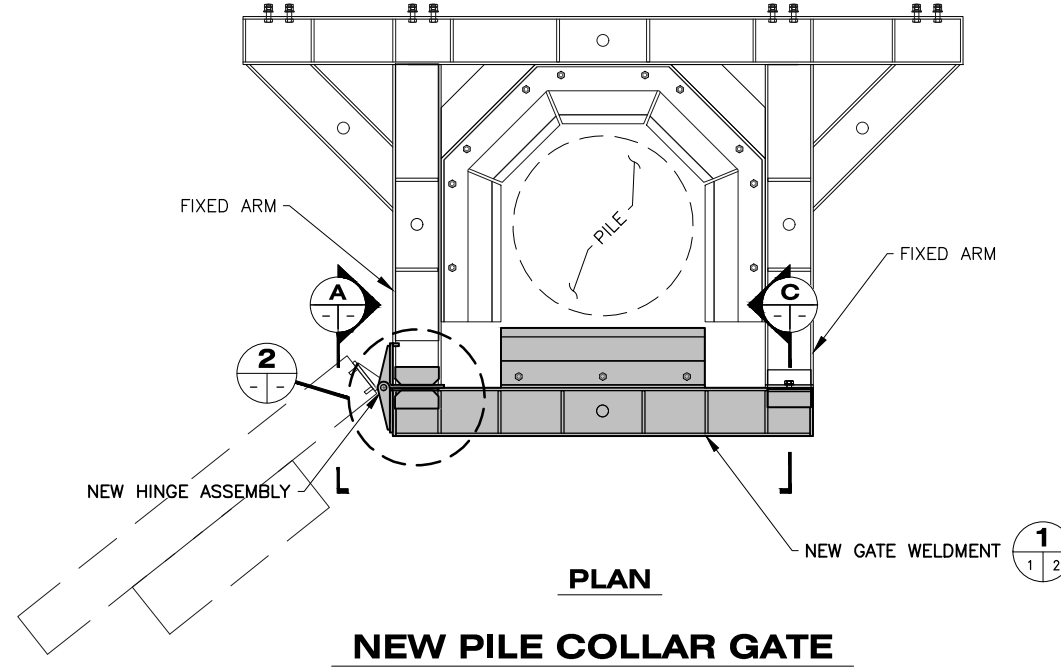
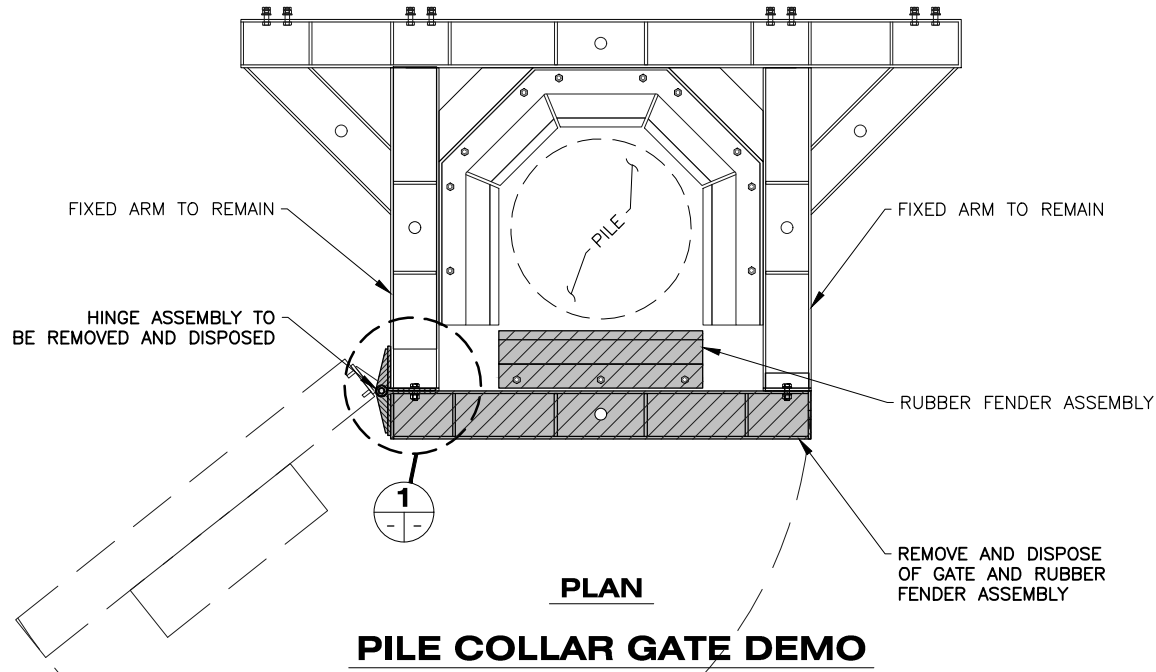
DO NOT SHIP FROM THIS SHEET

REVISION	DATE	DESCRIPTION
1	SEPT 19/19	REVISED PER SUBMITTAL
2	AUG 21/19	FOR APPROVAL
JESSE CO. 1840 MARINE VIEW DRIVE TACOMA, WASHINGTON 98422 PHONE: (253) 822-7433		
PROJECT: GUSTAVUS FERRY TERMINAL IMPROVEMENTS		
TITLE: STANDARD PARTS - BID ITEM 504.MF40.0021		
DRAWN: CC	CHK: MD	
PROJECT NO. 208119	DRAWING NO. 19001	SHEET NO. 1 OF 1

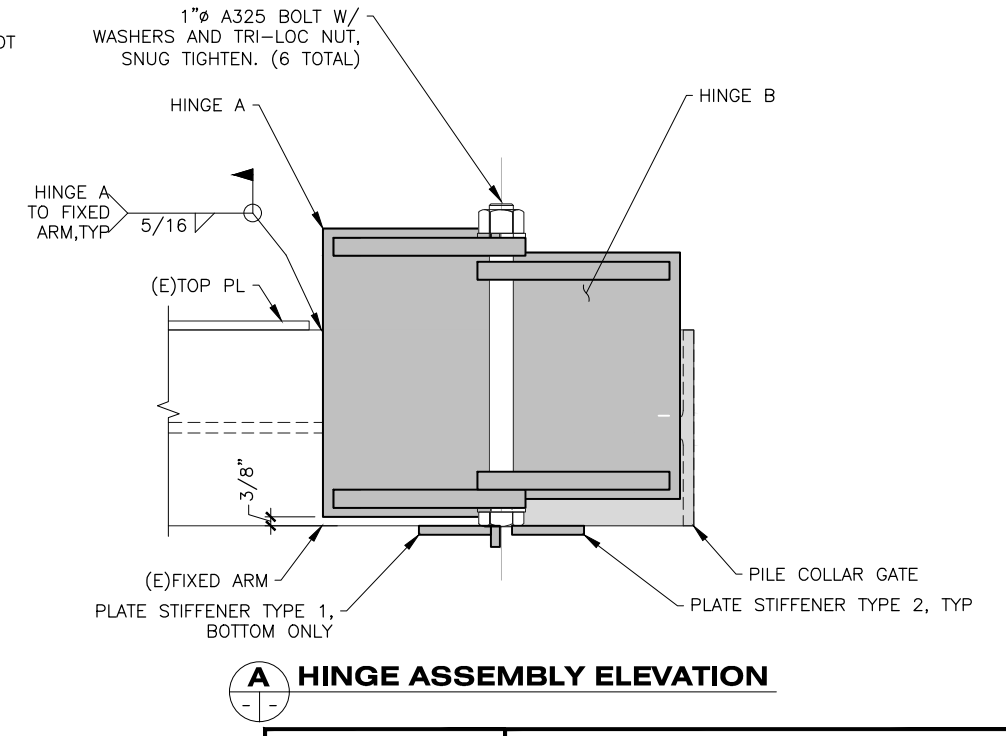
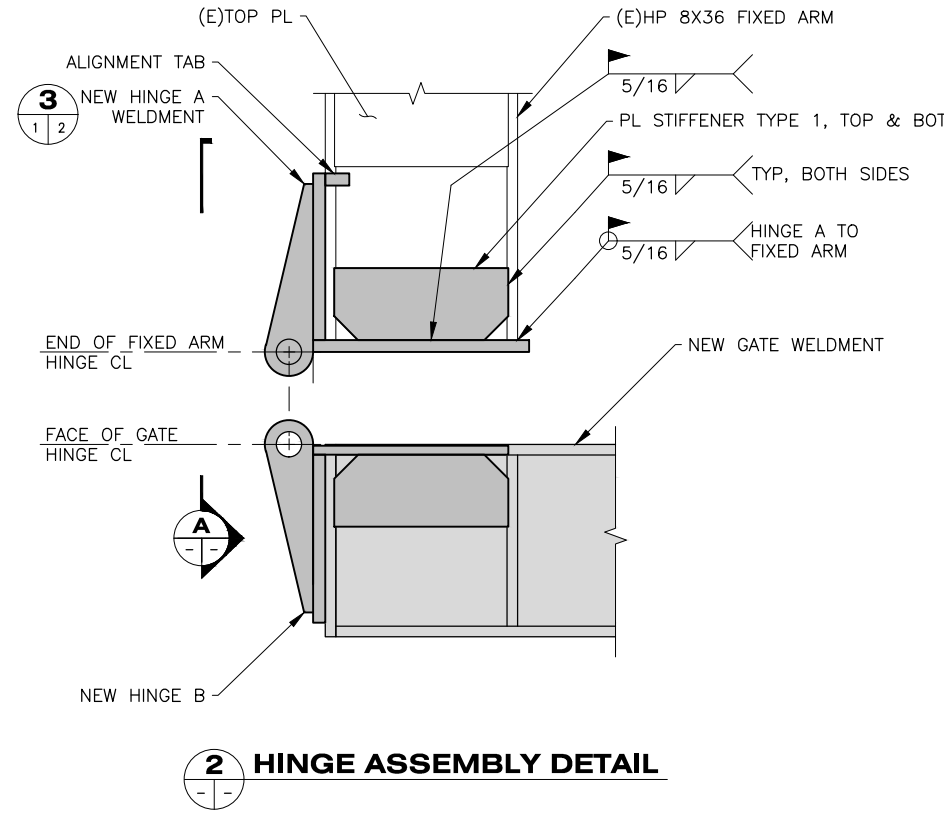
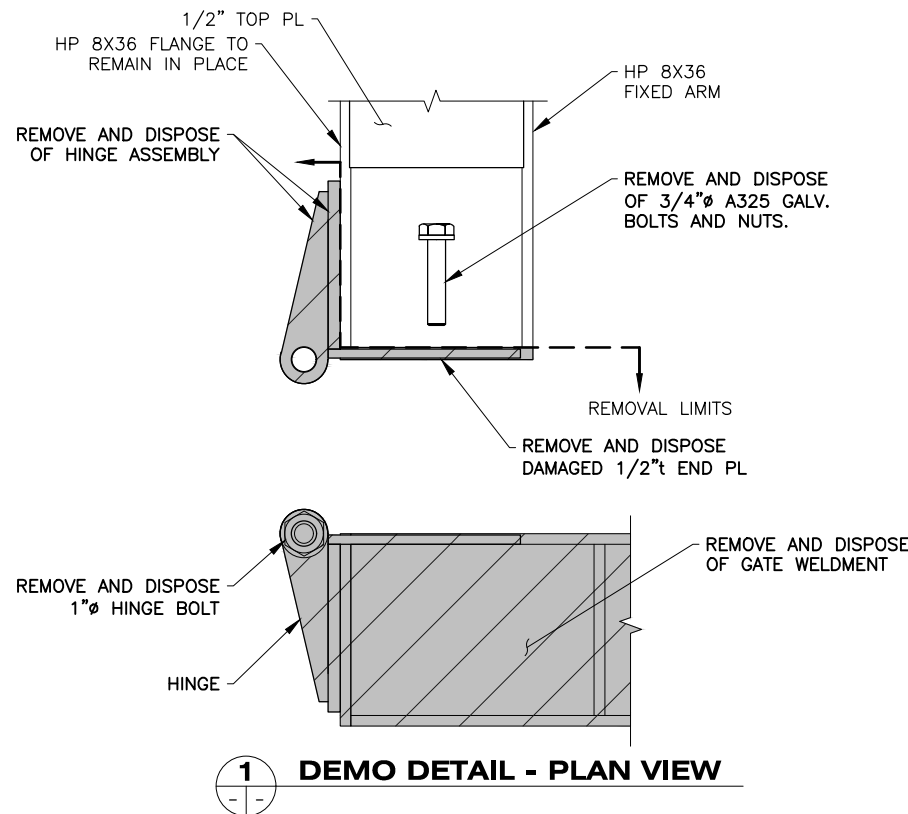
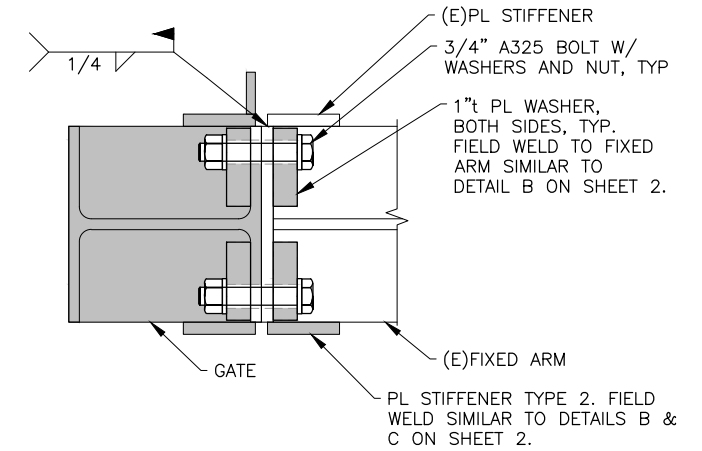
modification to sheet 403

CO#10 - Attachment #3

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2022	1	2



- SUGGESTED ASSEMBLY SEQUENCE:**
1. BOLT HINGE A TO HINGE B.
 2. BOLT GATE ASSEMBLY TO EXISTING END PLATE ON RIGHT FIXED ARM. USE THE ALIGNMENT TAB TO SUPPORT THE OPPOSITE END OF THE GATE.
 3. TACK WELD HINGE A INTO POSITION.
 4. UNBOLT HINGE A FROM HINGE B AND REMOVE GATE TEMPORARILY.
 5. WELD HINGE A TO FIXED ARM.
 6. WELD PLATE WASHERS ONTO FIXED ARM.
 7. WELD STIFFENER PLATES TO TOP AND BOT OF FIXED ARMS.
 8. RE-ATTACH GATE HINGES. VERIFY THE GATE WILL SWING SMOOTHLY AND THAT ALL BOLT HOLES LINE UP.
 9. INSTALL ALL BOLTS, NUTS AND WASHERS.



- NOTES:**
1. MODIFY ALL SIX EXISTING PILE COLLARS AS SHOWN.
 2. REMOVE THE EXISTING HINGE ASSEMBLY & DAMAGED END PLATE ON THE FIXED ARM AS SHOWN. GRIND WELD REMNANTS FLAT PRIOR TO INSTALLING NEW HINGE.
 3. SHOP FABRICATE NEW GATE AND HINGES. HINGE WELDMENT B WILL BE FIELD WELDED TO EXISTING FIXED ARM. SEE SUGGESTED ASSEMBLY SEQUENCE.
 4. REFERENCE SPECIAL PROVISION SECTION 504 FOR MATERIAL, FABRICATION, WELDING, AND COATING REQUIREMENTS.
 5. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 6. HOT DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

STEEL FLOAT PILE COLLAR - HINGE MODIFICATIONS

4/11/2022

HH 10/01/2024

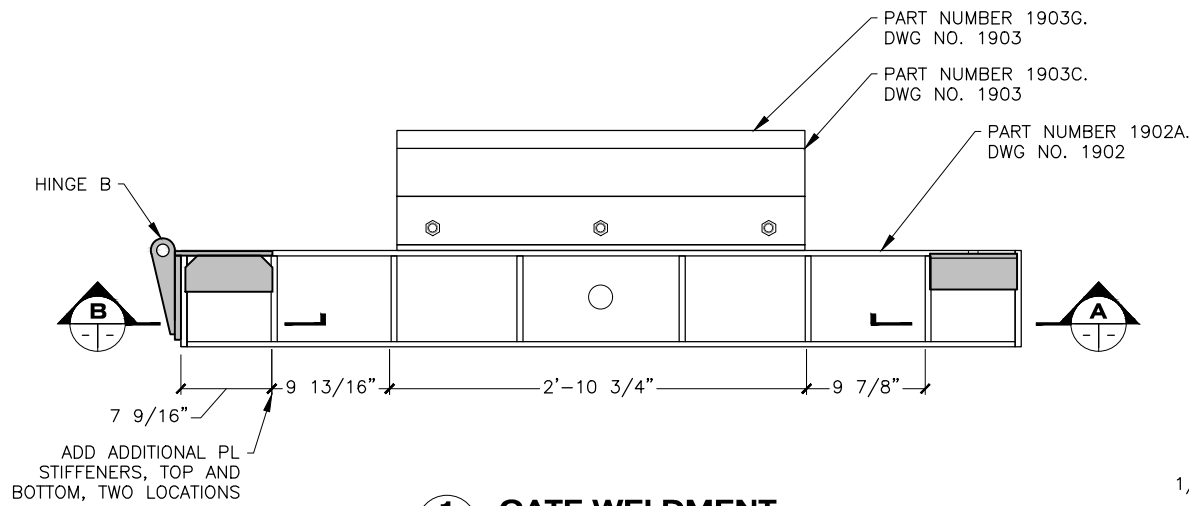
FILE Q:\Users\68128\OneDrive\Work\Projects\CONSTRUCTION\RFP - odd\work\RFP #X - PILE COLLAR REPAIRS\PILE COLLAR REPAIR DETAIL\11/20/2020\17:55 LAYOUT 1 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

FILE: Q:\ous\68128\VF\CONSTRUCTION\RFP - add'l work\RFP #X - PILE COLLAR REPAIRS\PILE COLLAR REPAIR DETAILS\11-20-2020\17:55 LAYOUT 2 DRAFTED STAFF CHECKED STAFF DESIGNED STAFF

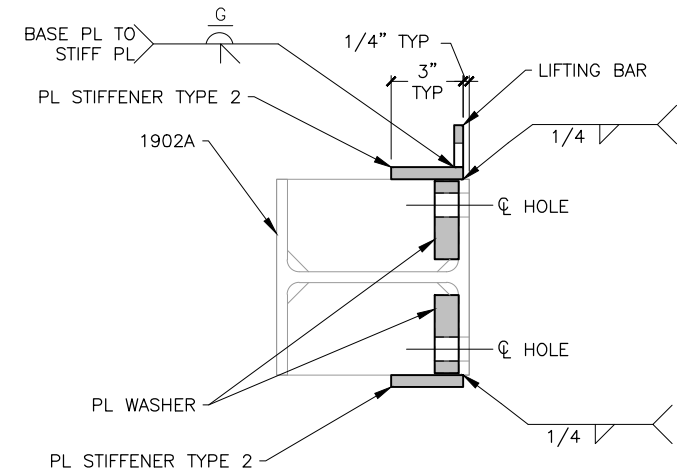
- NOTES:**
- FABRICATED THE PILE COLLAR GATE PER JESSE CO'S SHOP DRAWINGS FOR PROJECT 208119 WITH THE MODIFICATIONS SHOWN ON THIS SHEET. DO NOT INSTALL HINGE PARTS b1902.
 - HOT-DIPPED GALVANIZED ALL STEEL FABRICATED PARTS.
 - SUPPLY ALL HARDWARE TO RE-INSTALL GATE AND FENDER COMPONENTS.
 - TEST FIT HINGE A TO HINGE B IN SHOP PRIOR TO SHIPMENT.

CO#10 - Attachment #3

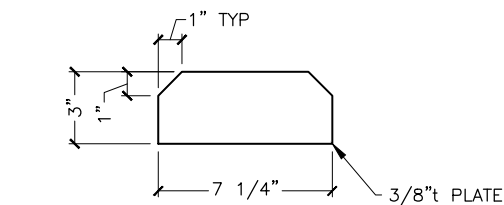
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2022	2	2



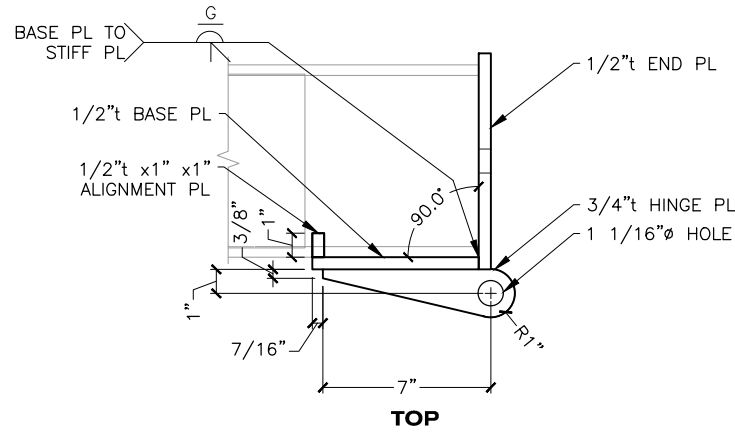
1 GATE WELDMENT
(6 TOTAL)



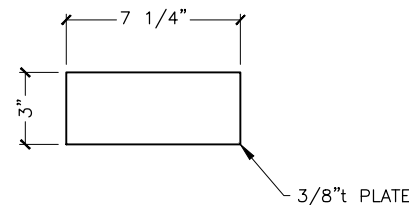
4 PLATE WASHER
(48 TOTAL) 24 SHIPPED LOOSE



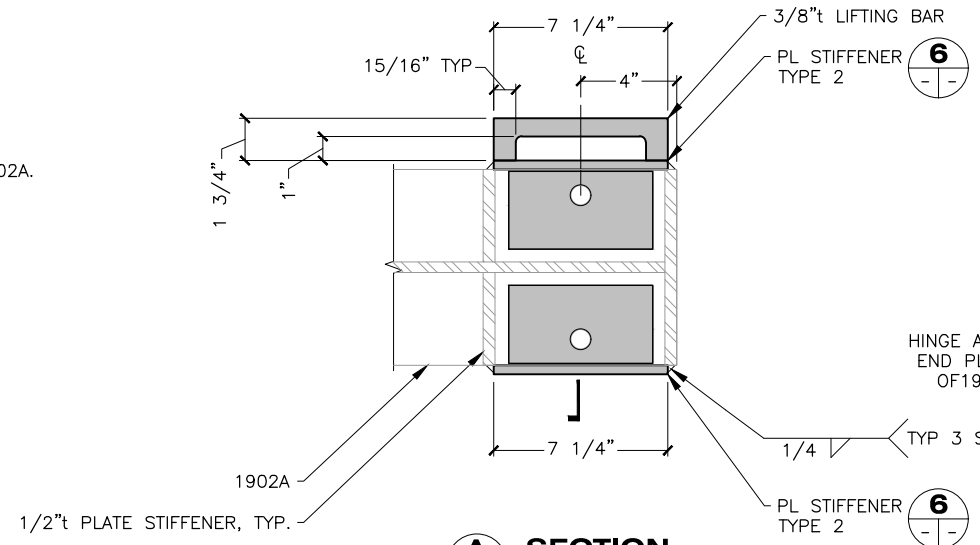
5 PL STIFFENER - TYPE 1
(24 TOTAL) 12 SHIPPED LOOSE



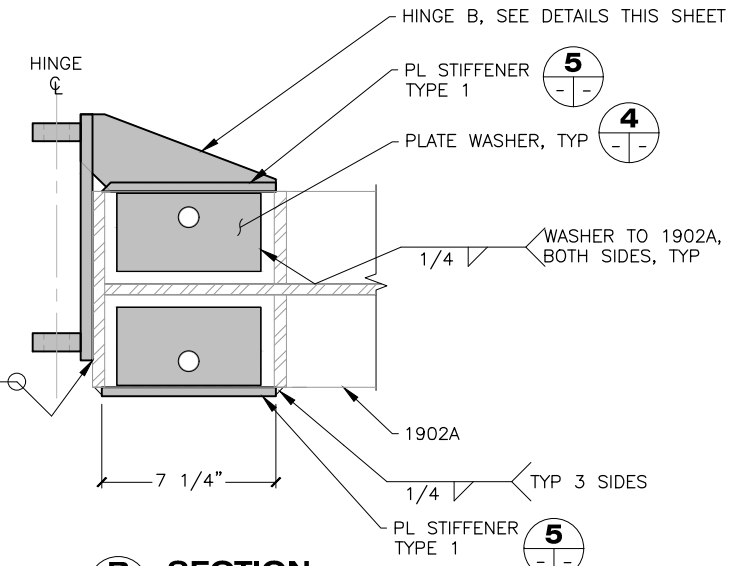
3 HINGE A WELDMENT DETAILS
(6 TOTAL) SHIP LOOSE



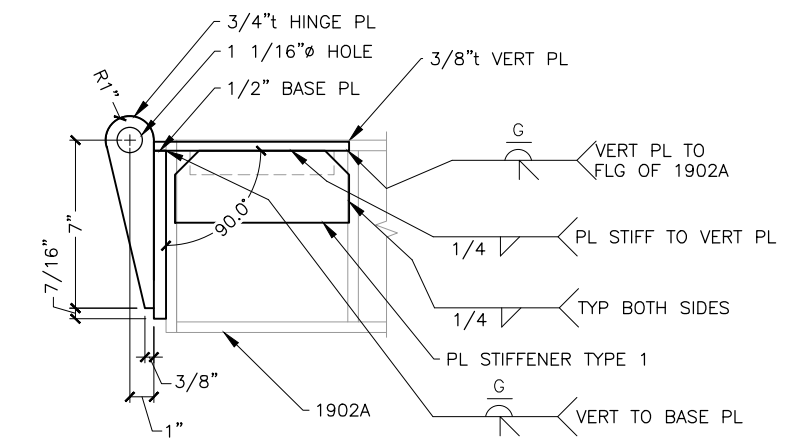
6 PL STIFFENER - TYPE 2
(18 TOTAL) 6 SHIPPED LOOSE



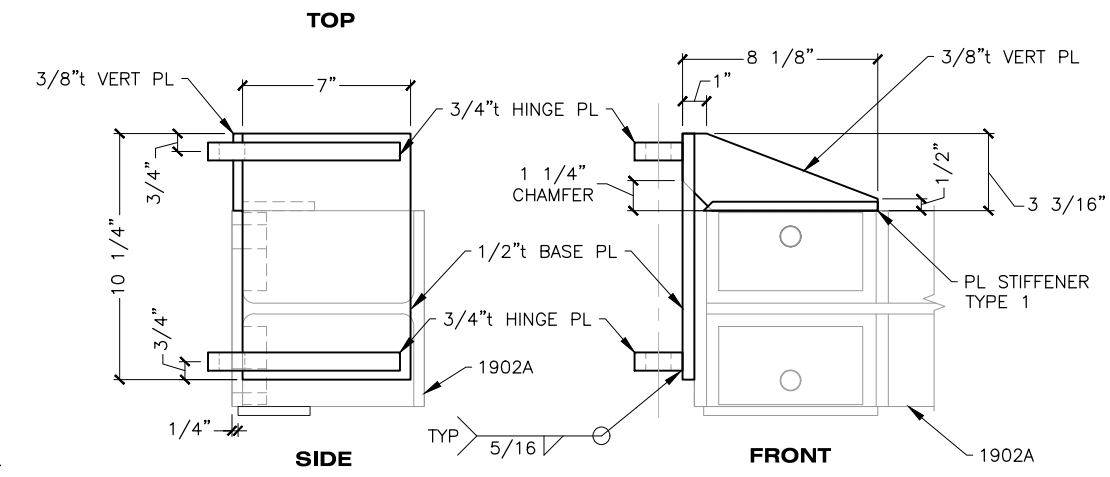
A SECTION



B SECTION



2 HINGE B WELDMENT DETAILS



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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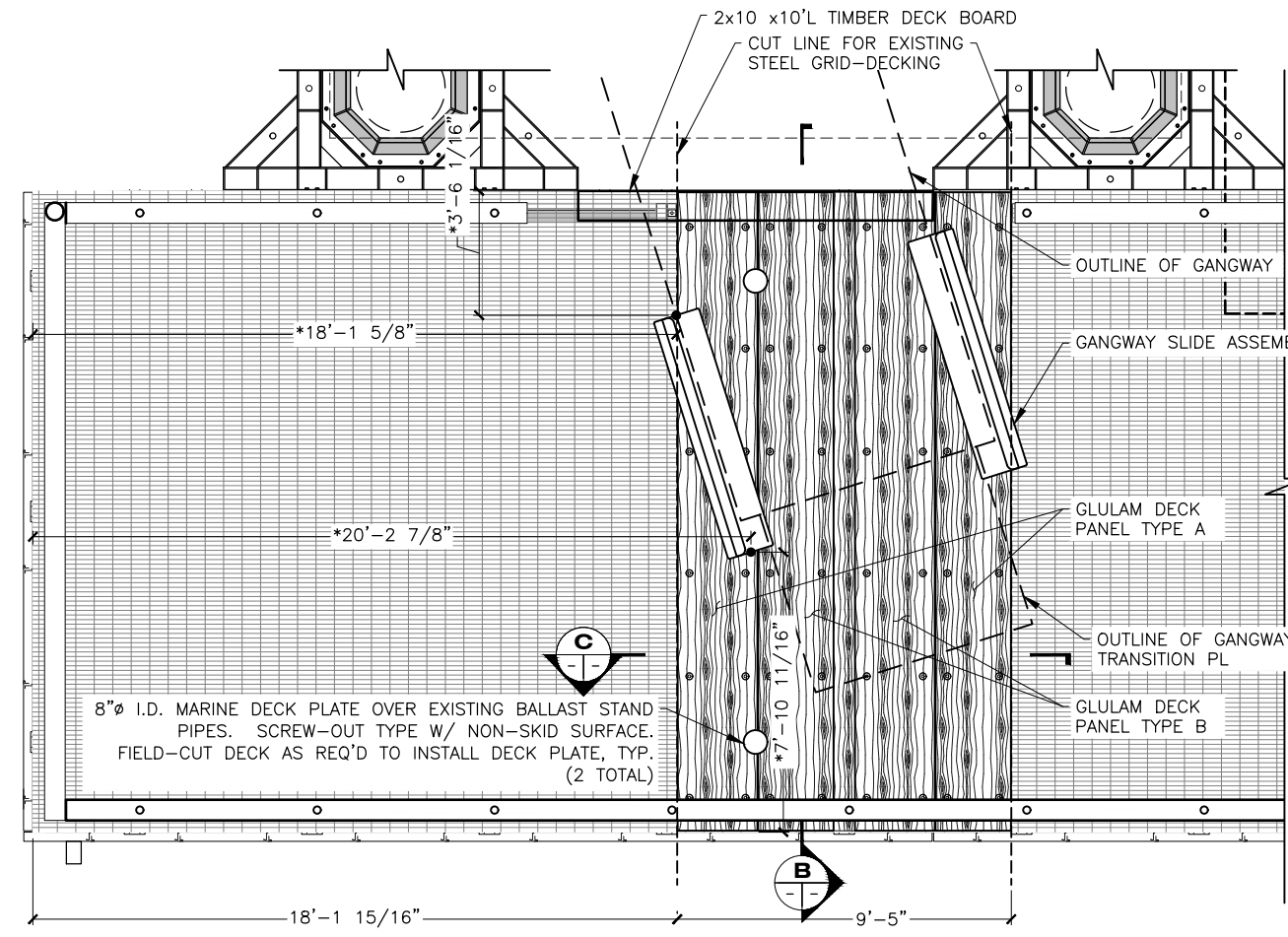
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

STEEL FLOAT PILE COLLAR - GATE REPLACEMENT

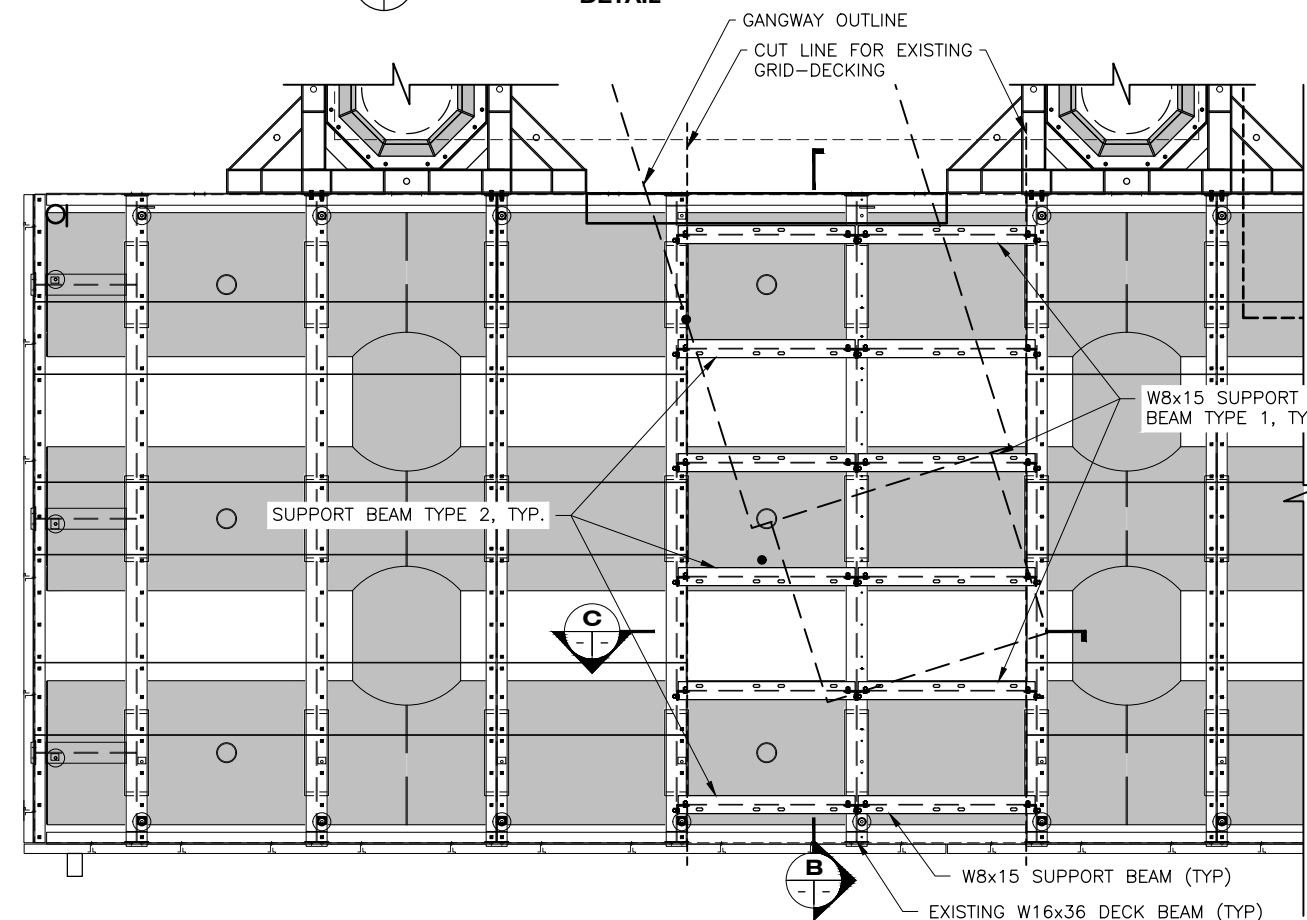
HH 10/01/2024

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 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	404	145



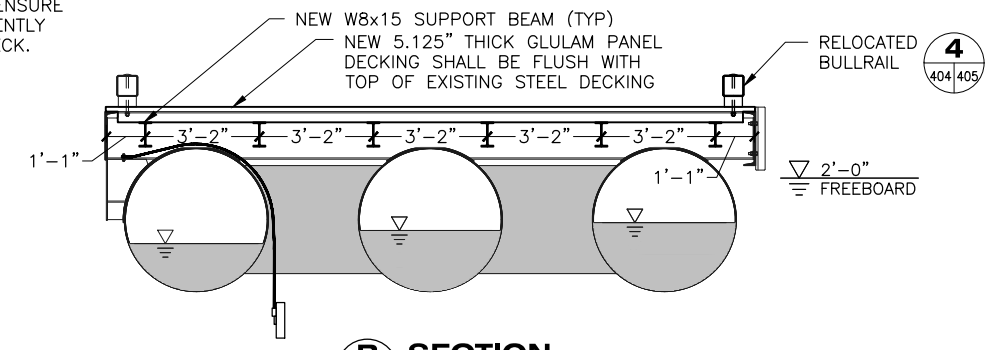
1 DECKING MODIFICATION DETAIL
401/404



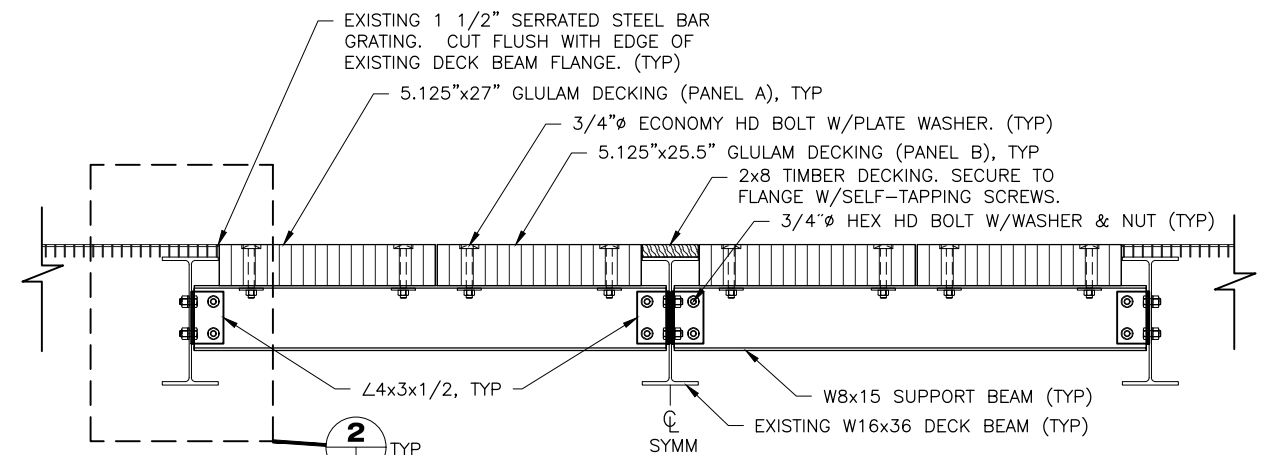
2 FRAMING MODIFICATION DETAIL

* FINAL DIMENSIONS TO GANGWAY SLIDE ASSEMBLY MAY VARY. CONTRACTOR SHALL TEMPORARILY FASTEN GANGWAY SLIDE ASSEMBLY AND WATCH MOVEMENT OF GANGWAY THROUGH SEVERAL TIDE CYCLES. CONTRACTOR SHALL ADJUST LOCATION OF SLIDE ASSEMBLY AS NEEDED TO ENSURE PROPER FIT-UP BEFORE PERMANENTLY SECURING SLIDE ASSEMBLY TO DECK.

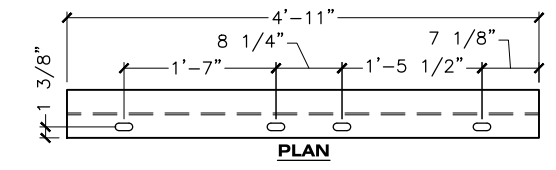
2
404/504



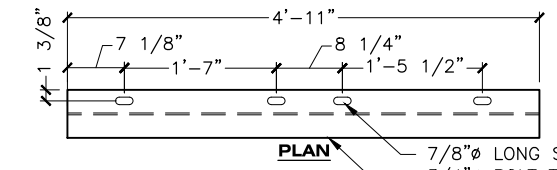
B SECTION



C SECTION

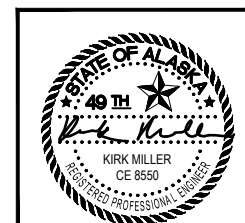


FRONT TYPE 1
QTY 6



FRONT TYPE 2
QTY 6

3 SUPPORT BEAM DETAILS



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

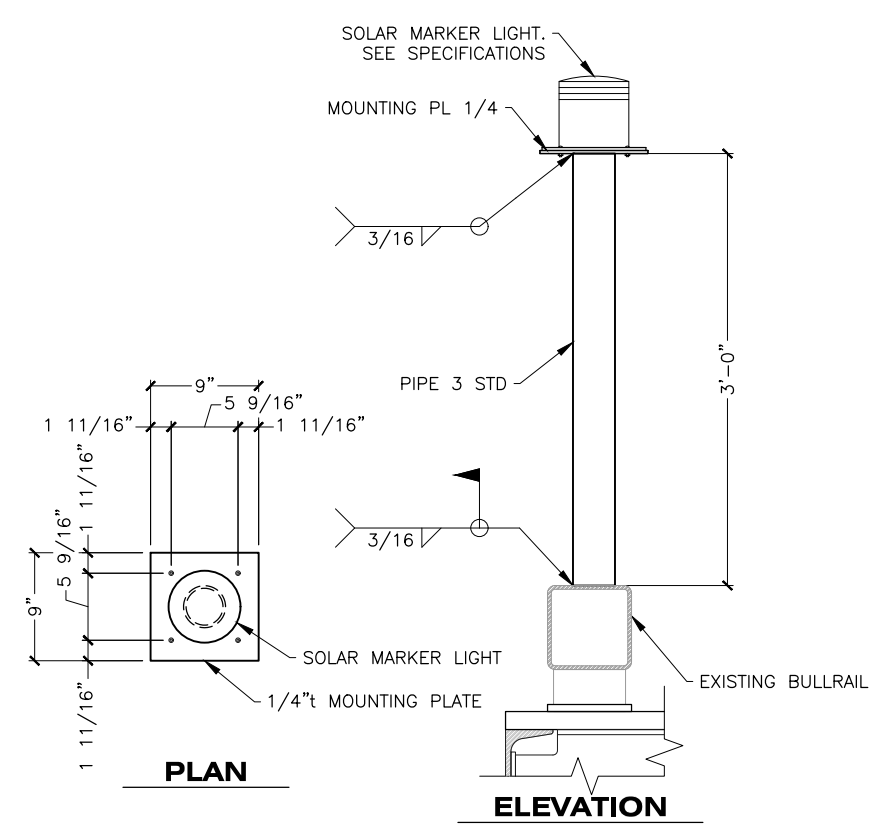
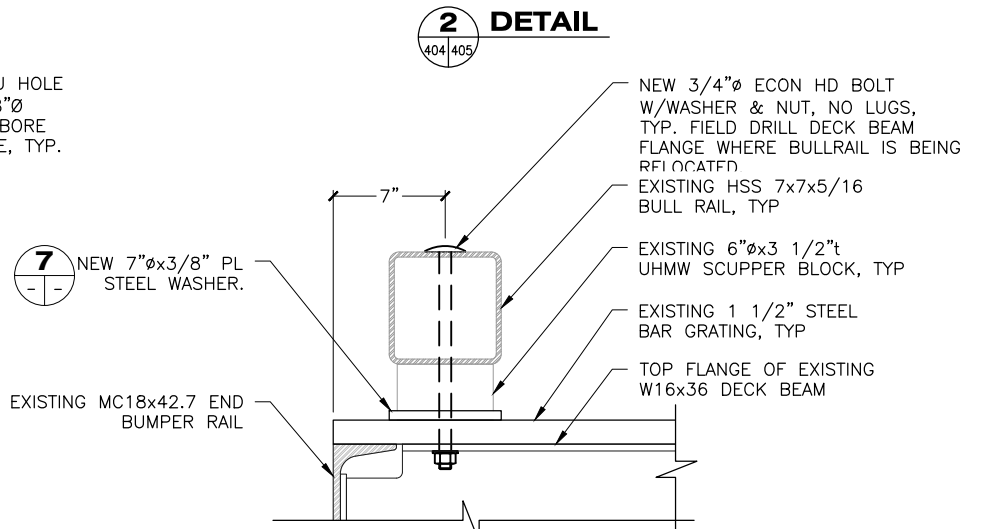
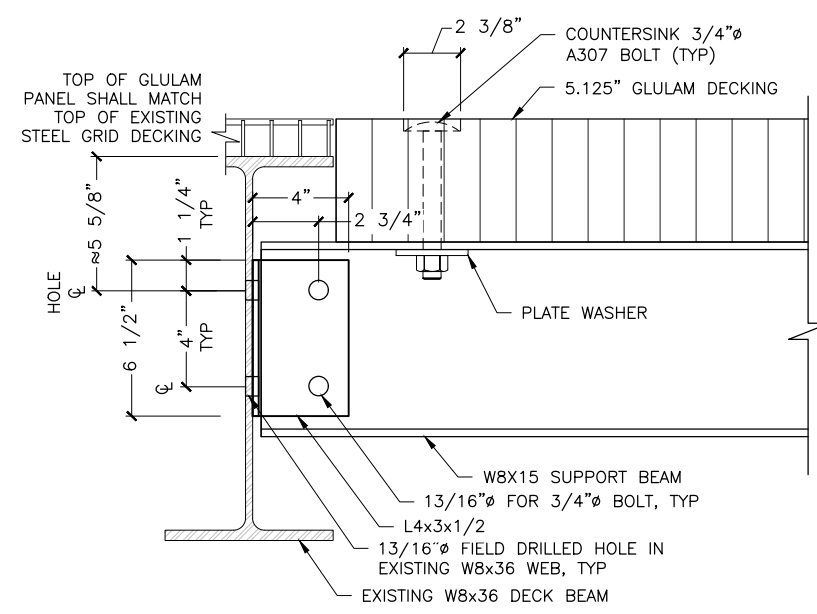
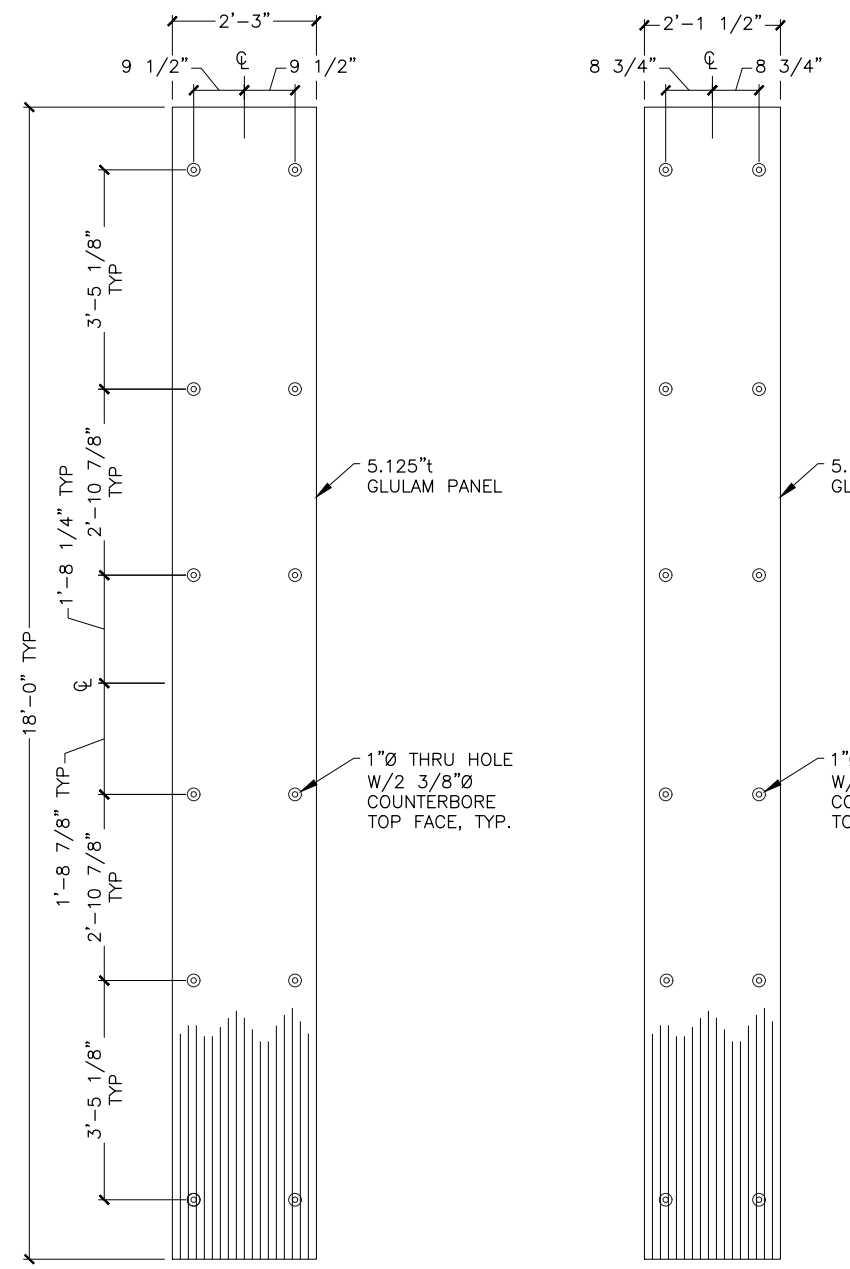
STEEL FLOAT MODIFICATIONS - DECK AT GANGWAY LANDING

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

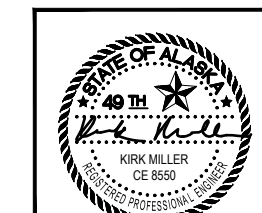
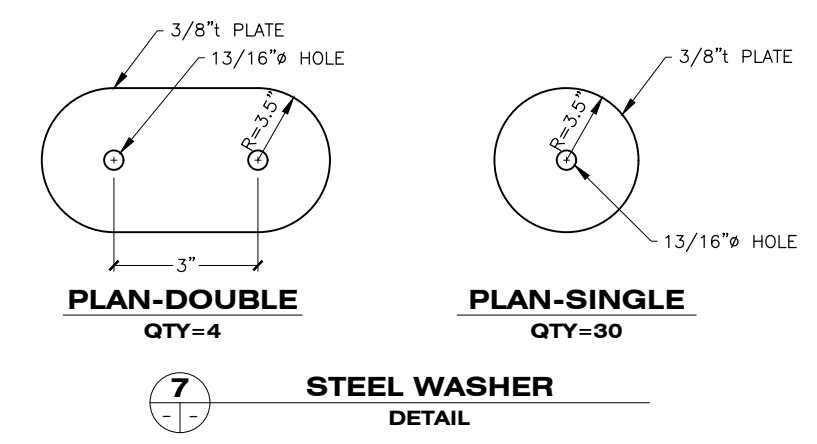
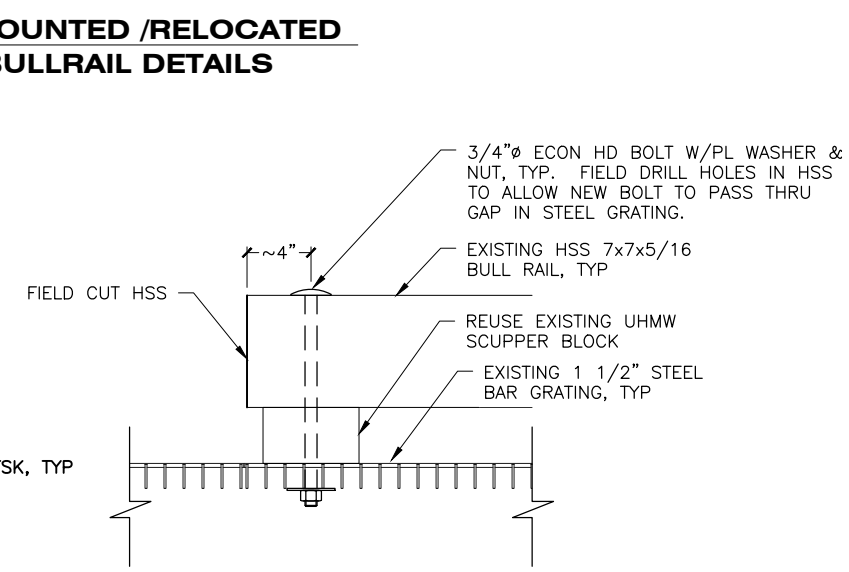
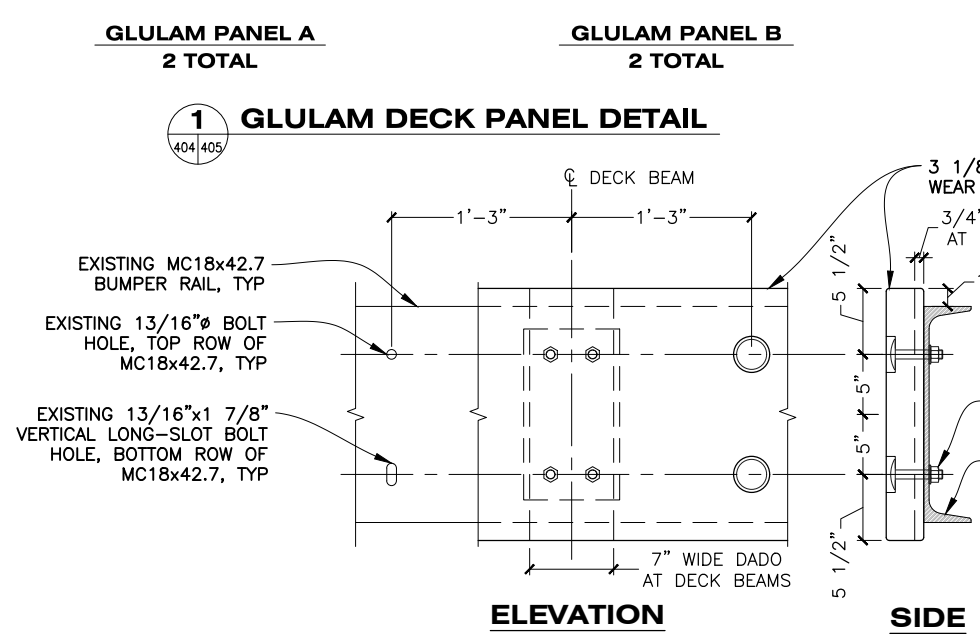
3/18/2019

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	405	145



MARKER LIGHT NOTE: VERIFY BASE BOLT PATTERN WITH MANUFACTURER PRIOR TO FABRICATION OF MOUNTING PLATE.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

STEEL FLOAT MODIFICATIONS - DECK AT GANGWAY LANDING

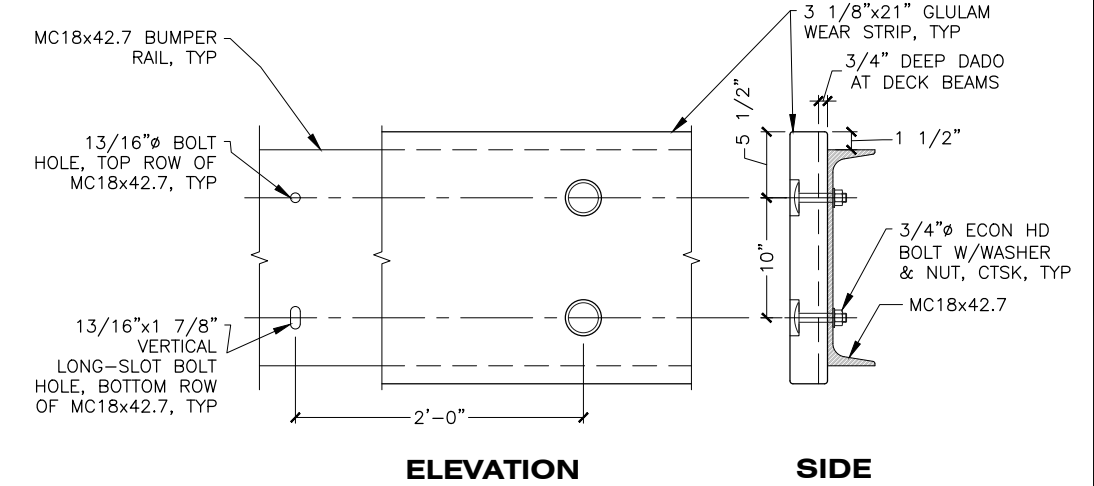
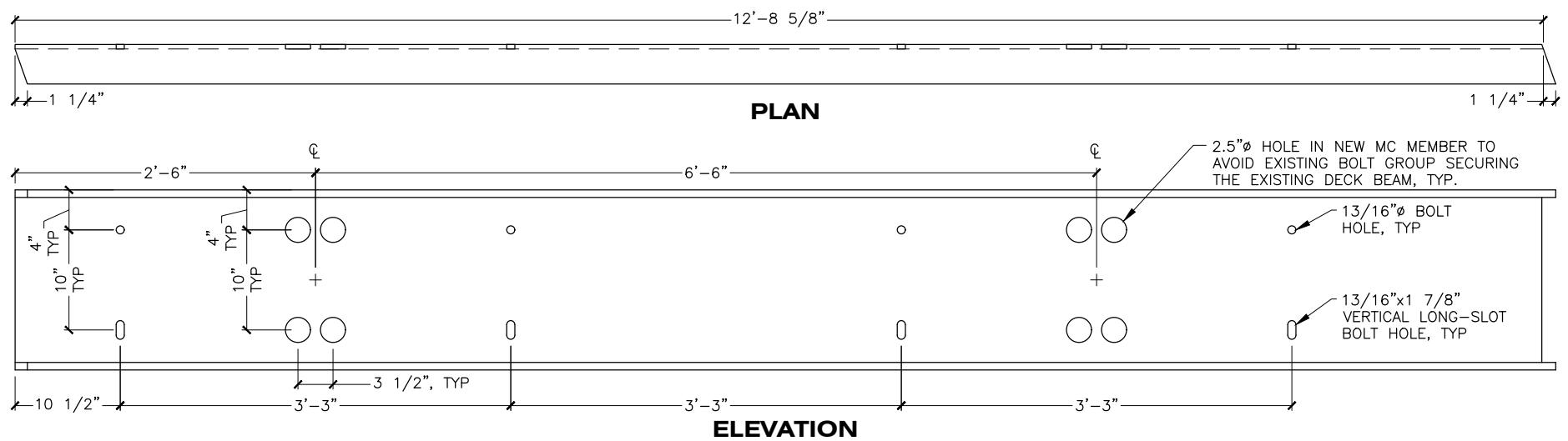
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HH 10/01/2024

FILE: G:\Users\68128\My Documents\WF\PLANSET\401-410 - STEEL FLOAT MODS.dwg DATE: 3/18/2019 14:08 LAYOUT: 405 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

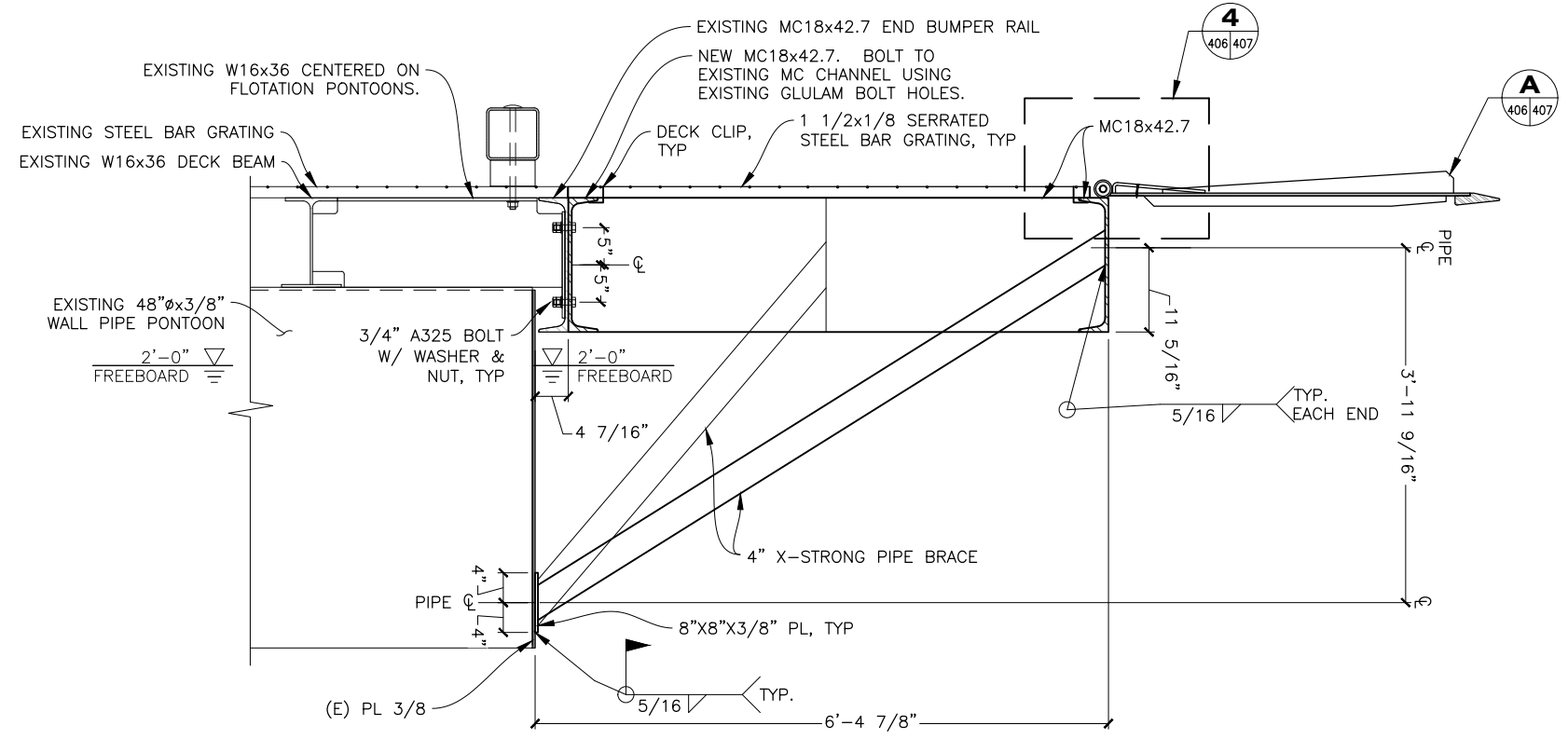
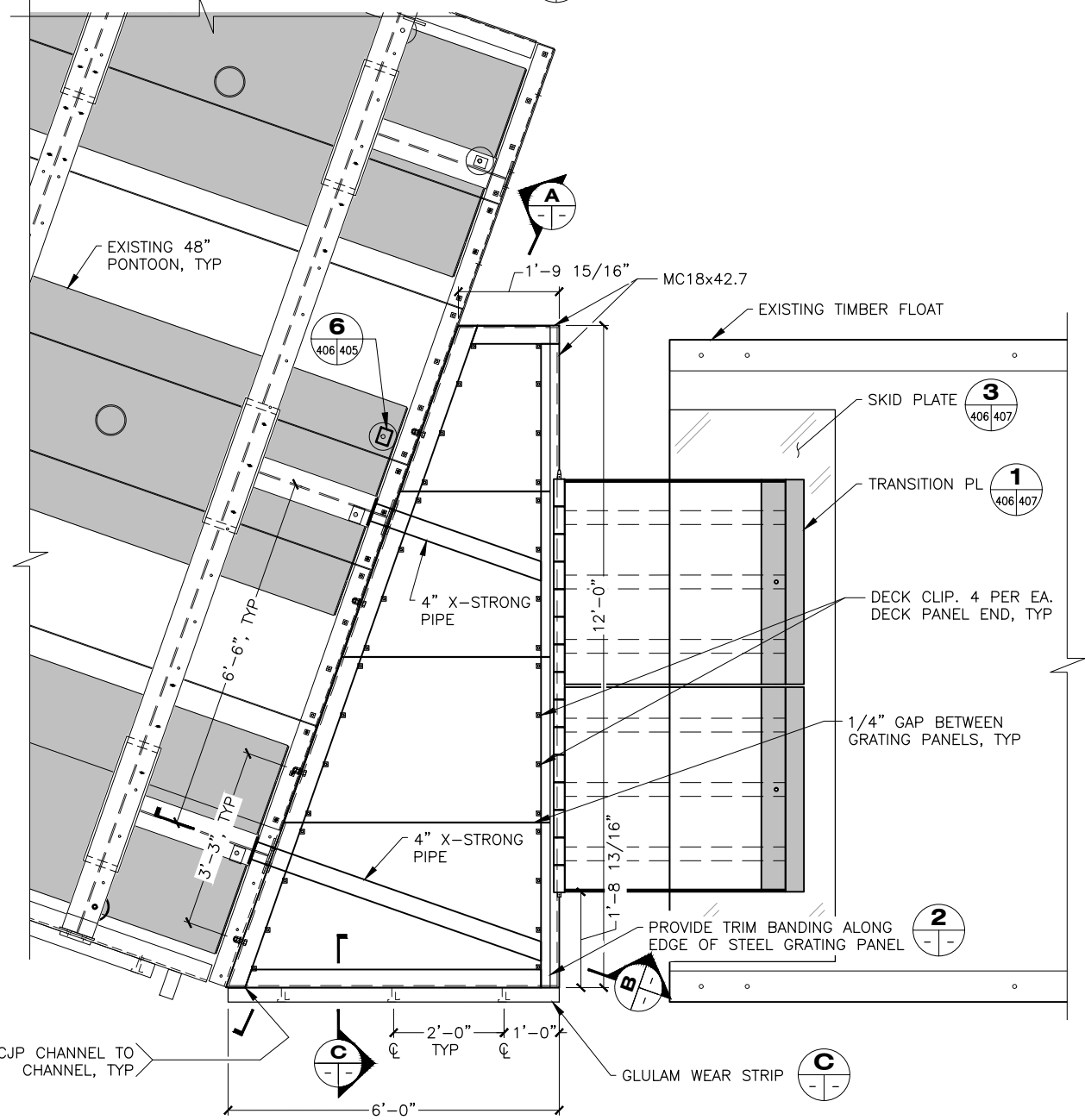
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 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	406	145



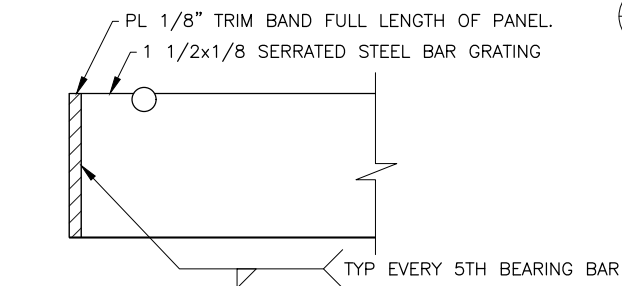
A MC MOUNTED TO END OF STEEL FLOAT

C STEEL FLOAT EXTENSION WEAR STRIP



B STEEL FLOAT EXTENSION-ELEVATION

NOTE: CONTRACTOR SHALL LIFT END OF FLOAT OUT OF THE WATER OR DRY-DOCK FLOAT ON BEACH TO FACILITATE WELDMENT BELOW WATERLINE. PROVIDE HOT-STICK GALVANIZE REPAIRS TO WELDED AREAS PER SPECS.



2 STEEL GRATING BANDING

1 STEEL FLOAT EXTENSION

NOTE: OPEN-GRID DECKING NOT SHOWN ON STEEL FLOAT AND EXTENSION FOR CLARITY.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

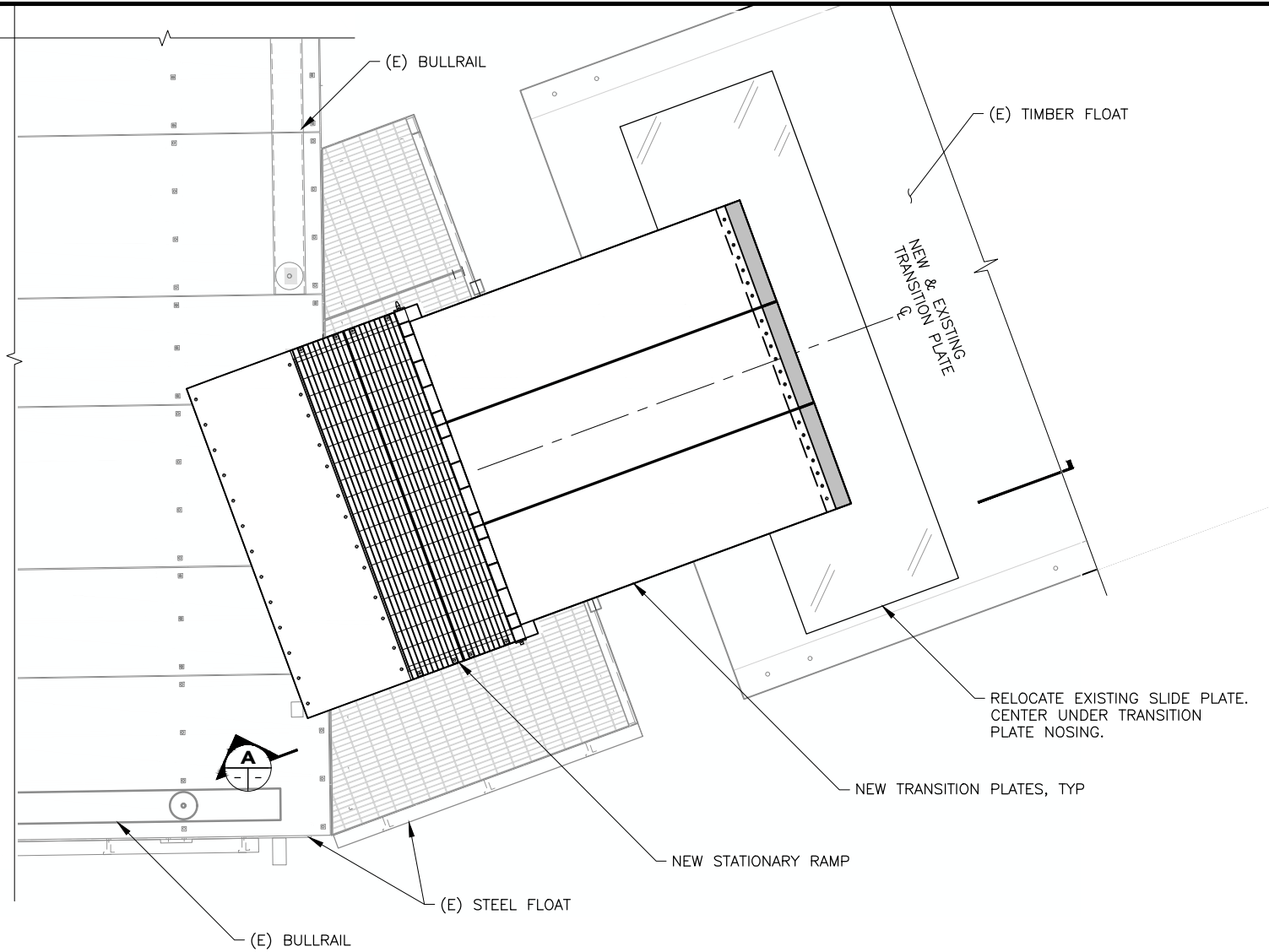
STEEL FLOAT MODIFICATIONS - EXTENSION

HH 10/01/2024

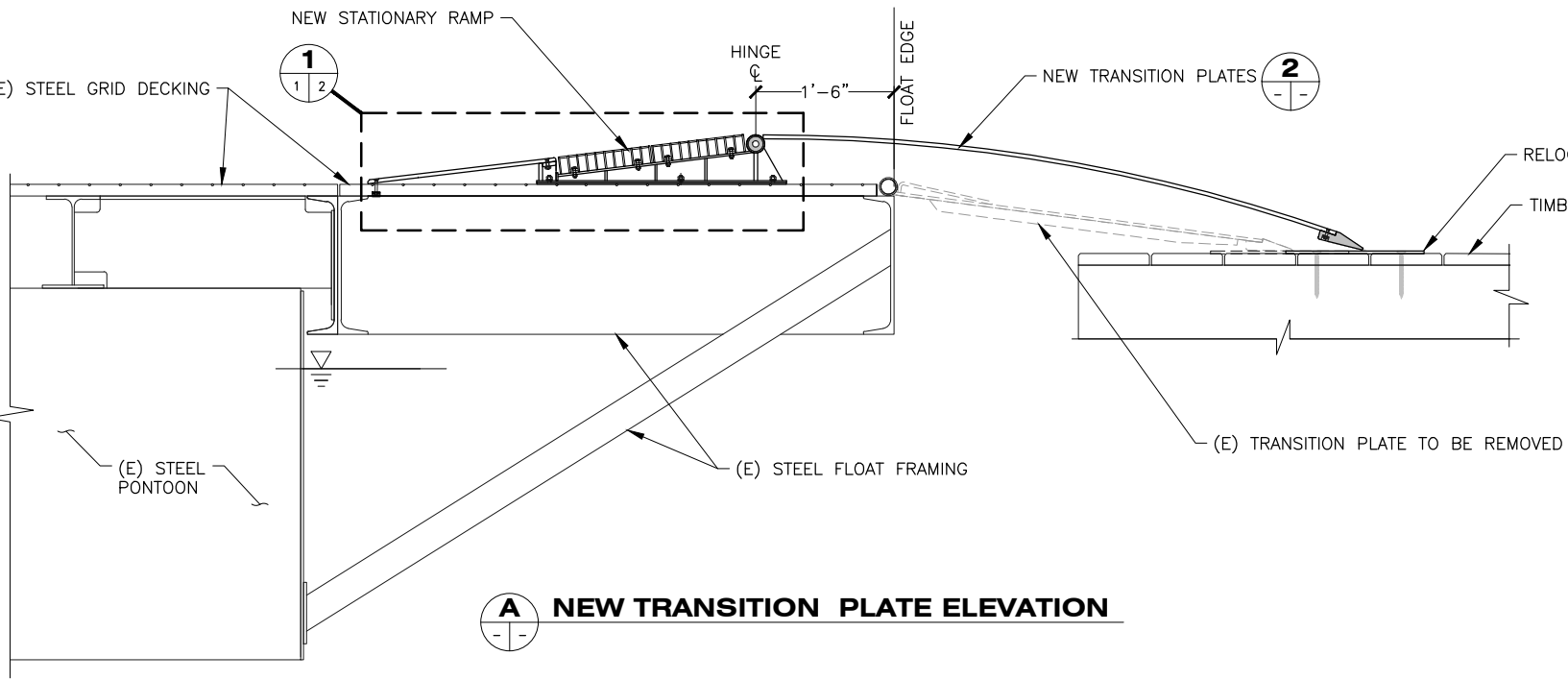
3/18/2019

FILE Q:\ous\68128\VF\PLANSET\407 - TRANSITION PLATES DETAILS REV_1.1.dwg DATE 2/16/2021 15:32 LAYOUT 1 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

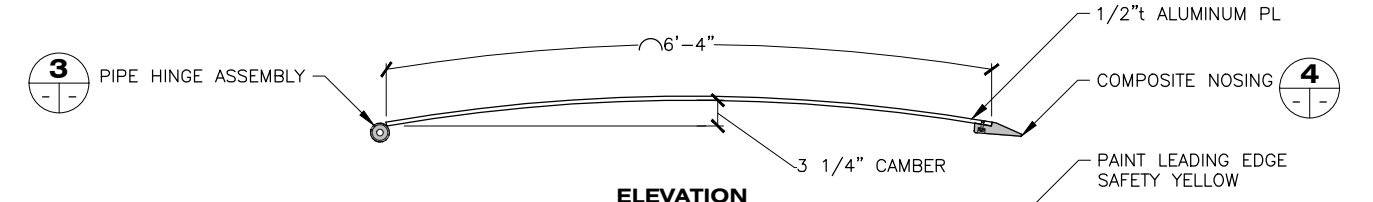
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2021	406A	



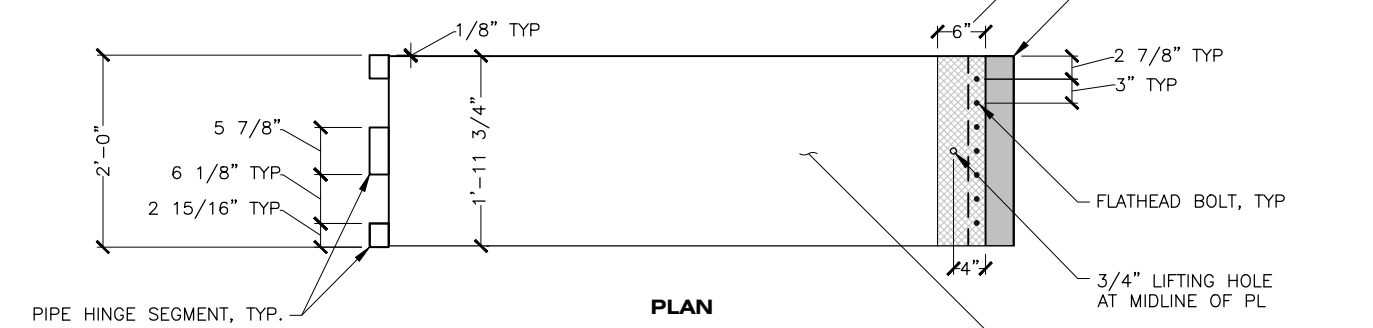
1 NEW TRANSITION PLATE



A NEW TRANSITION PLATE ELEVATION

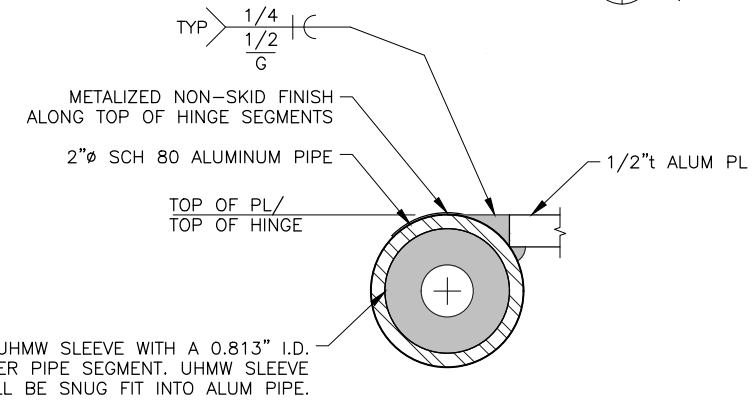


ELEVATION



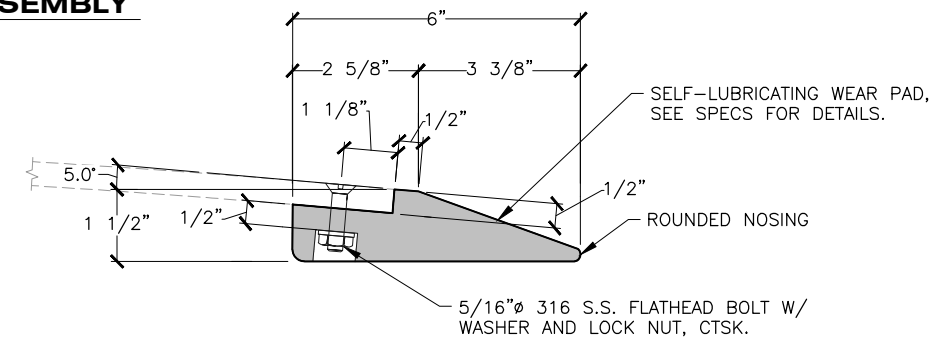
PLAN

2 TRANSITION PL
 (3 TOTAL) APPX. WT: 90 LBS EA

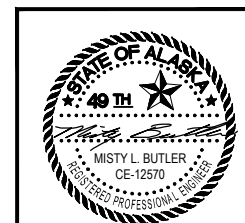


3 PIPE HINGE ASSEMBLY

NOTES:
 1. WHERE NOTED, ALUMINUM SURFACES SHALL BE COATED WITH A METALIZED NON-SKID FINISH SUCH AS "SLIP-NOT" OR OTHER APPROVED PROCESS.
 2. STOWED POSITION OF TRANSITION PLATES SHOWN ON SHEET 3.
 3. SHOP FIT-UP OF ALL COMPONENTS REQUIRED PRIOR TO SHIPMENT TO SITE.



4 COMPOSITE NOSING



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSITION PLATE DETAILS

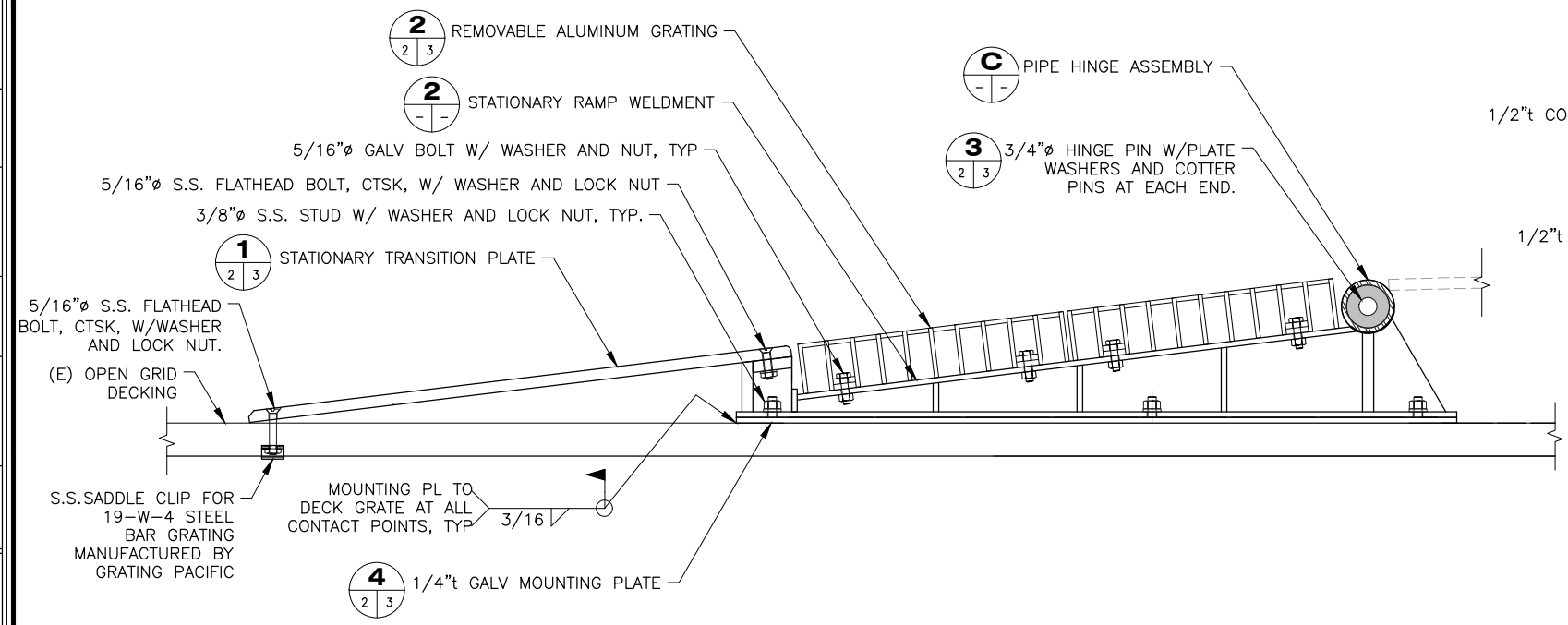
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

2/16/2021

HH 10/01/2024

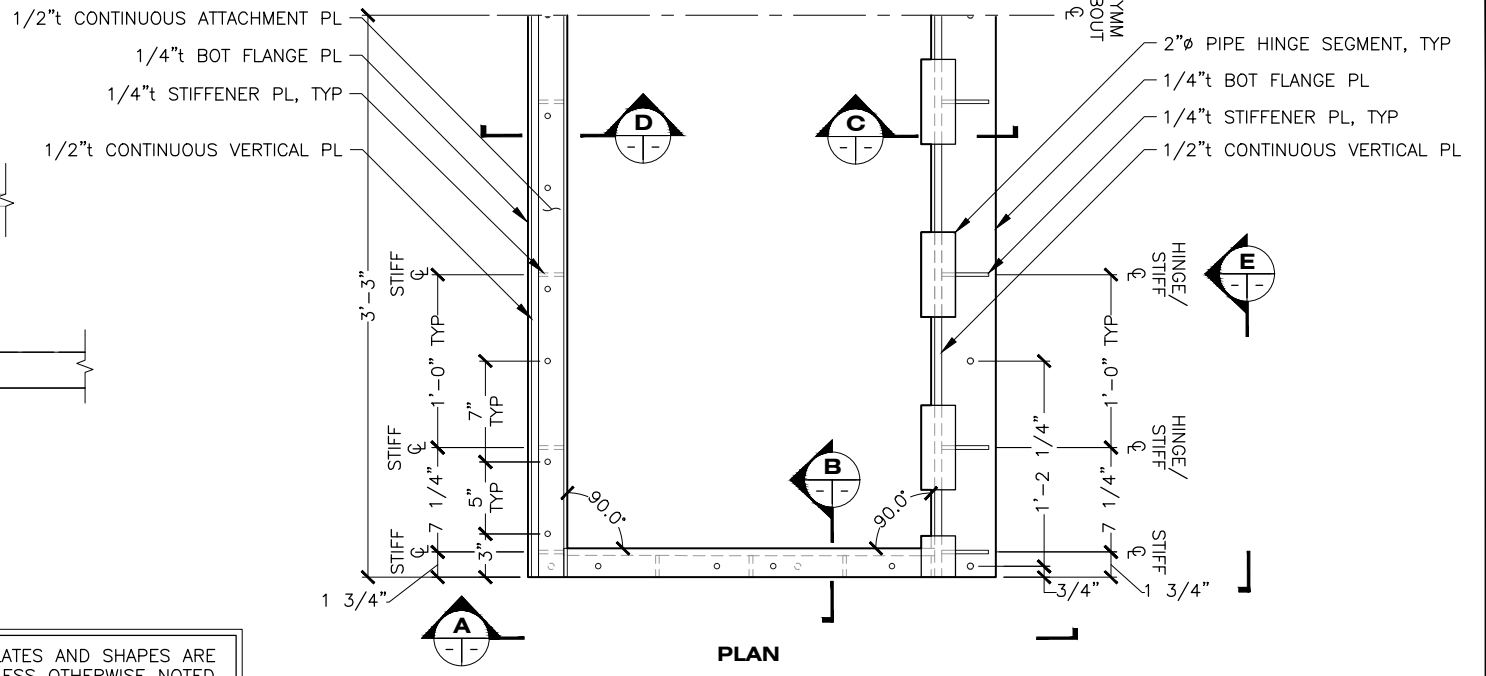
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 CHECKED STAFF
 DRAFTED STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2021	406B	

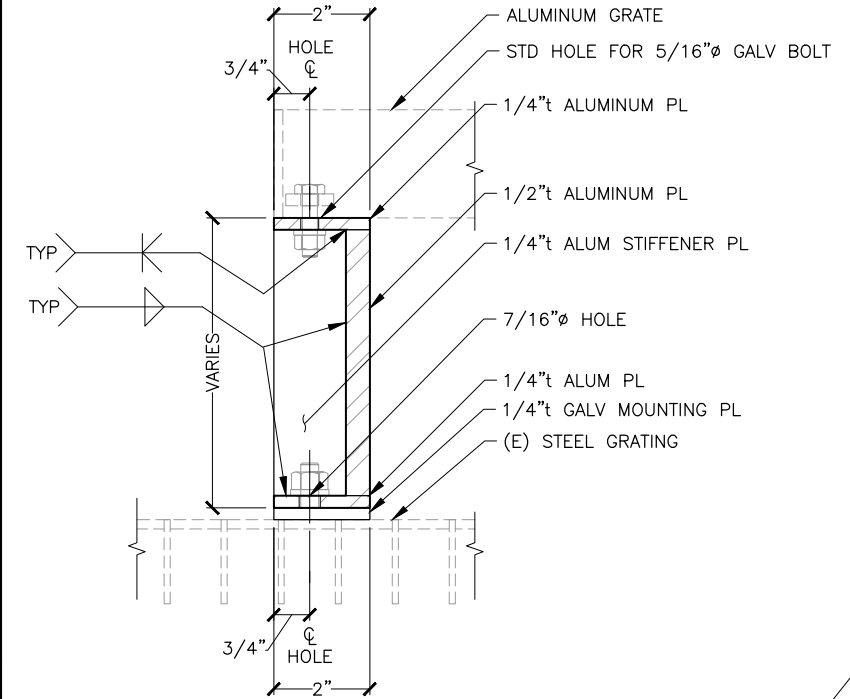


1 STATIONARY RAMP ASSEMBLY DETAIL

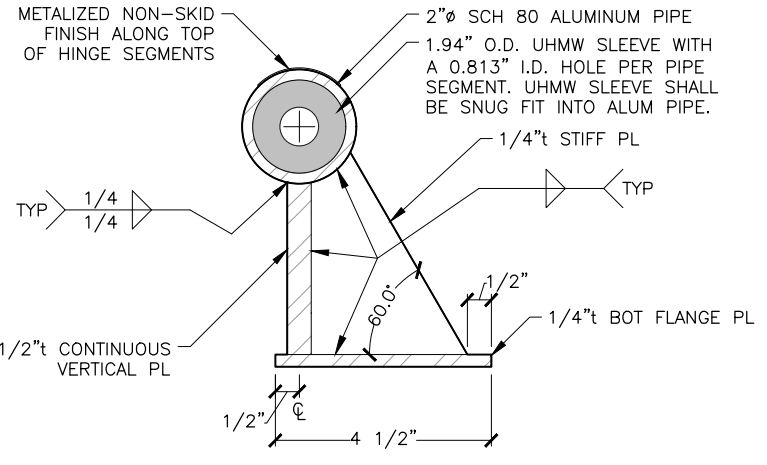
NOTES: ALL PLATES AND SHAPES ARE ALUMINUM UNLESS OTHERWISE NOTED.



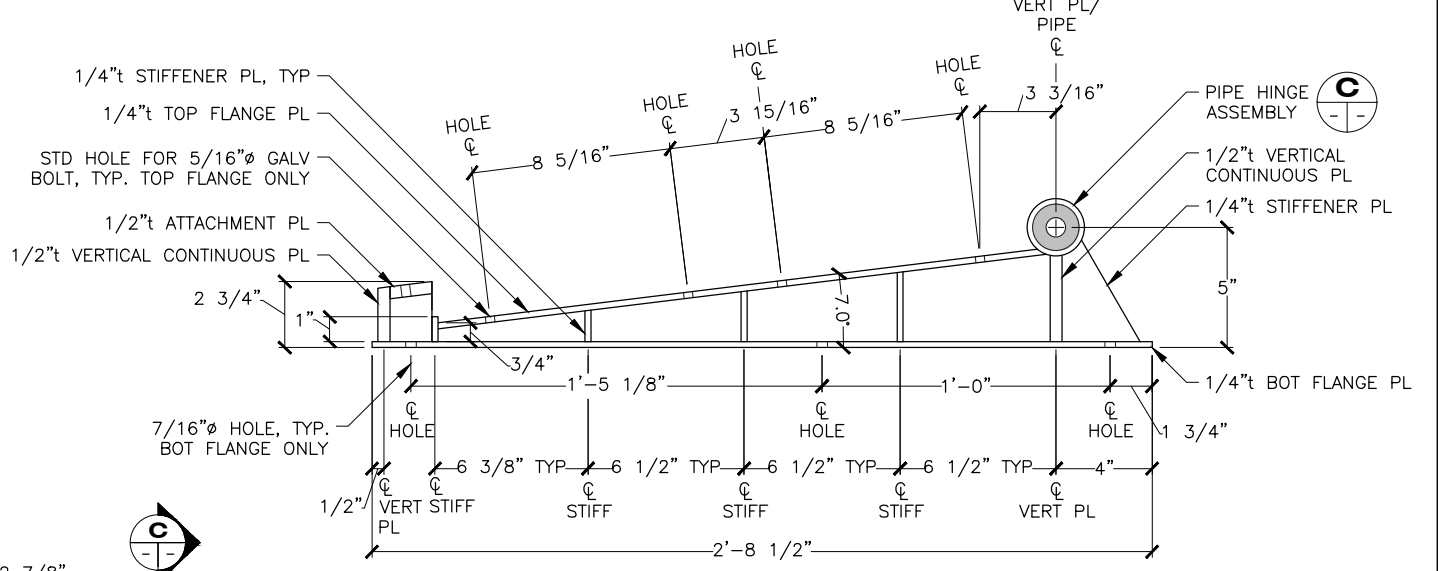
2 STATIONARY RAMP WELDMENT



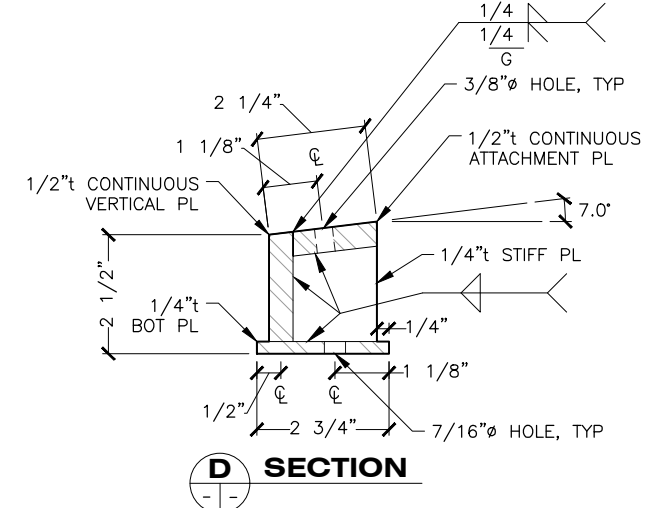
B SECTION



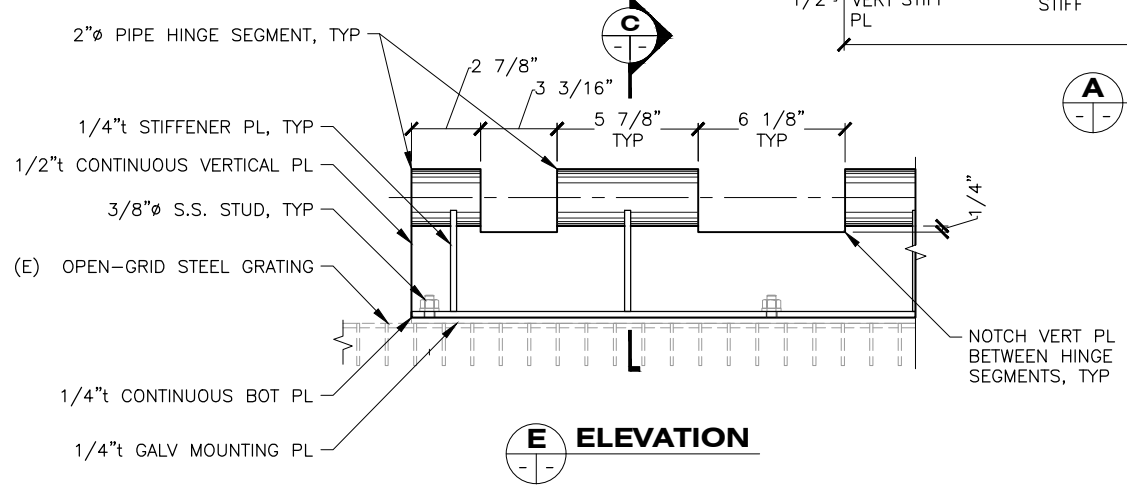
C SECTION



A ELEVATION



D SECTION



E ELEVATION



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

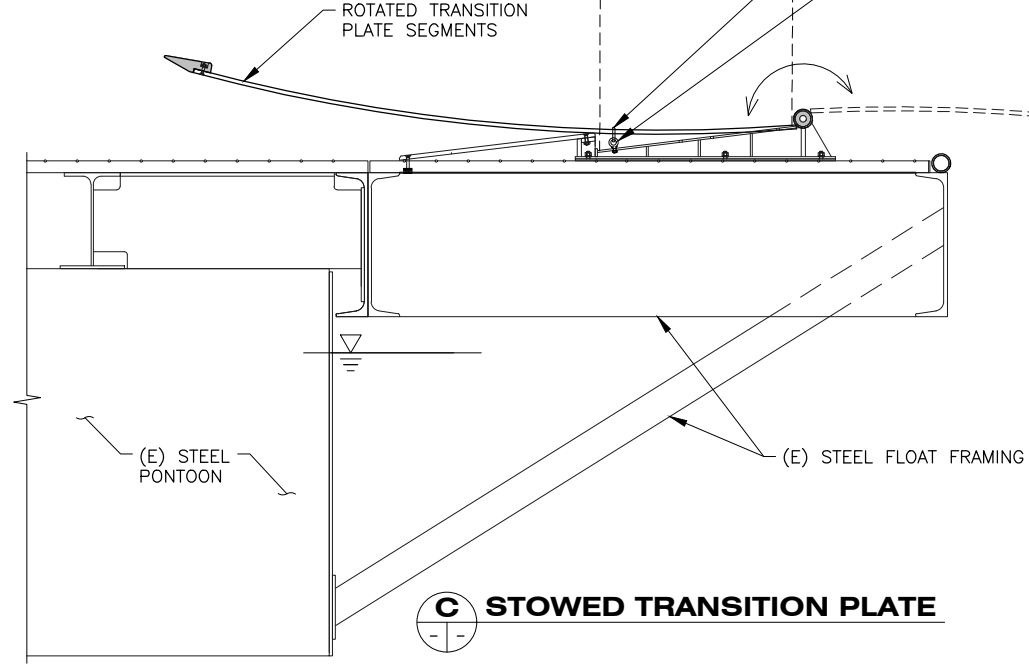
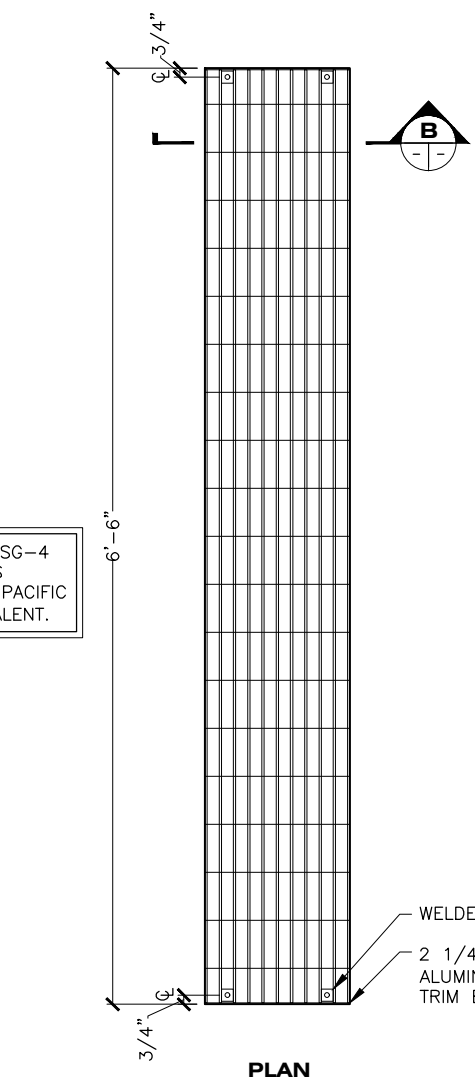
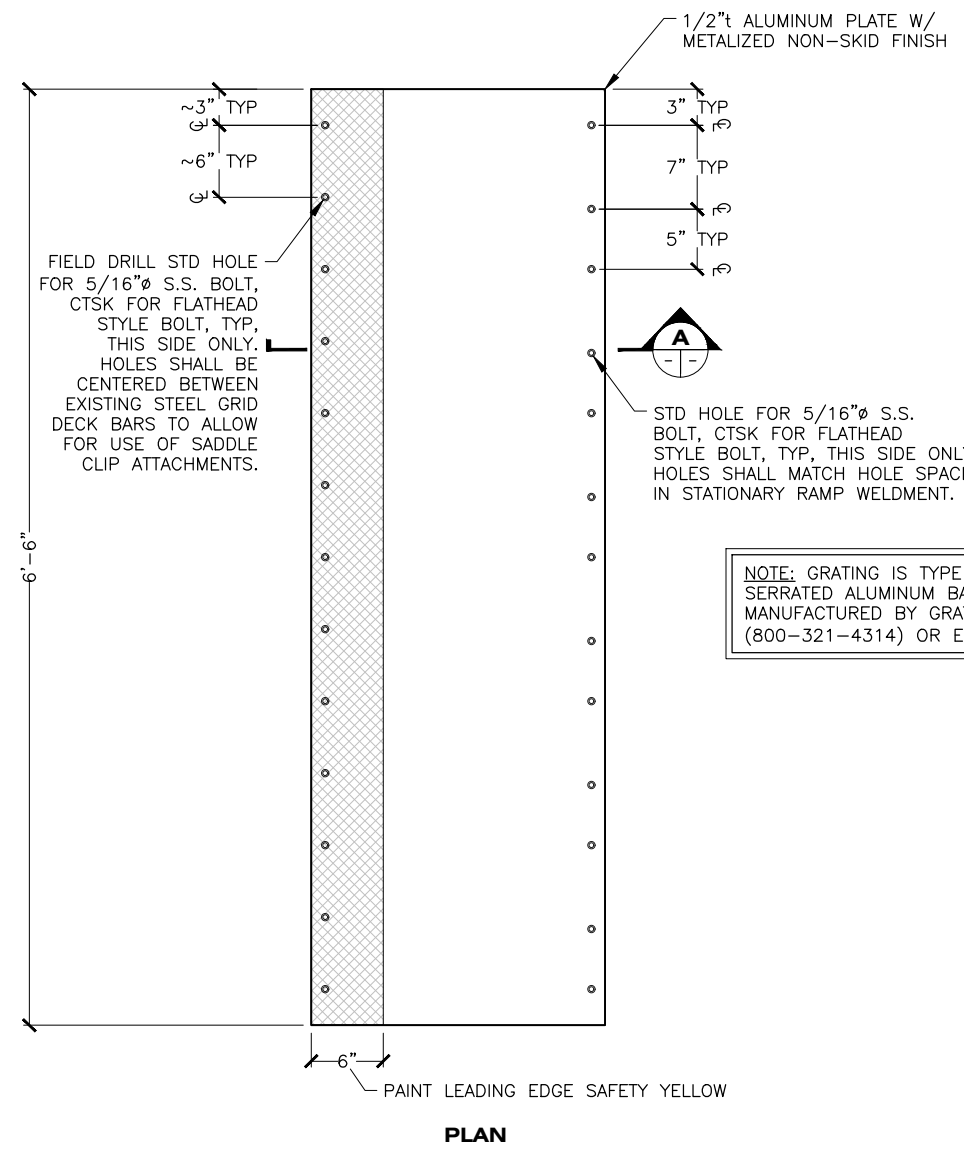
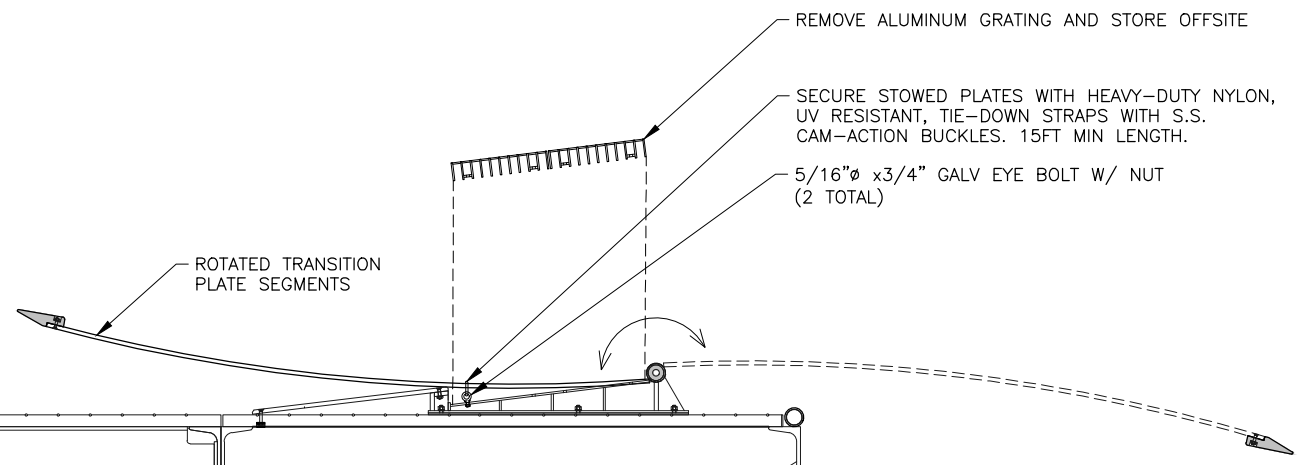
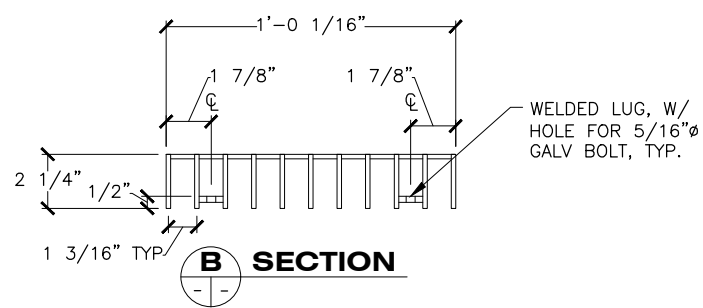
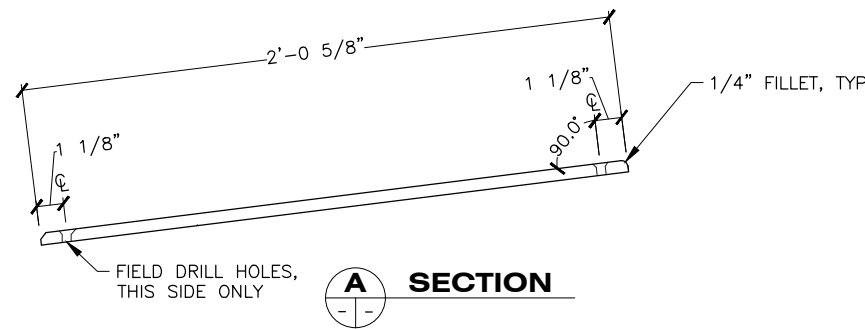
TRANSITION PLATE DETAILS

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

2/16/2021

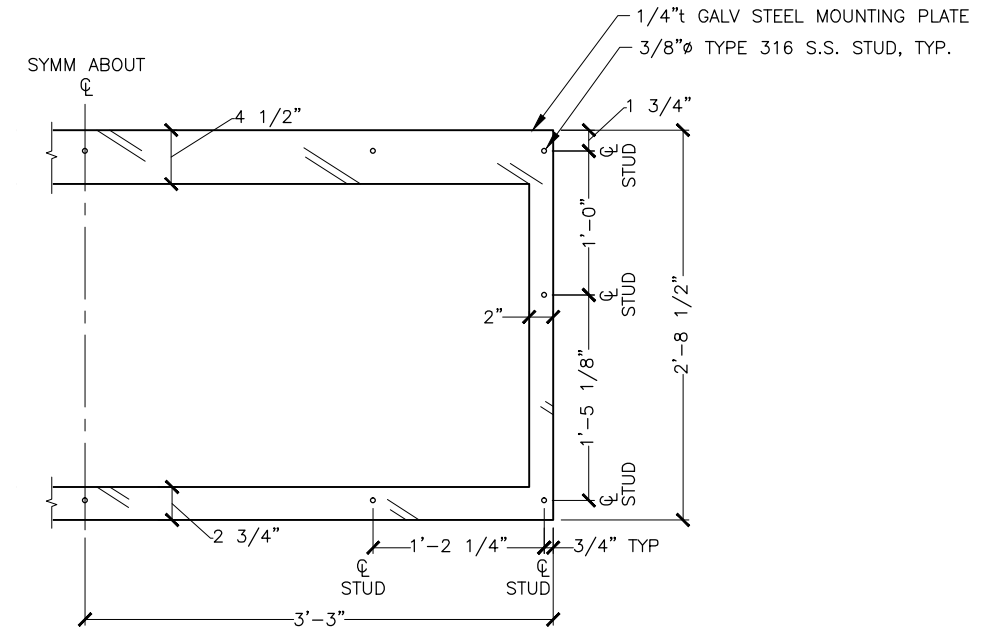
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2021	406C	



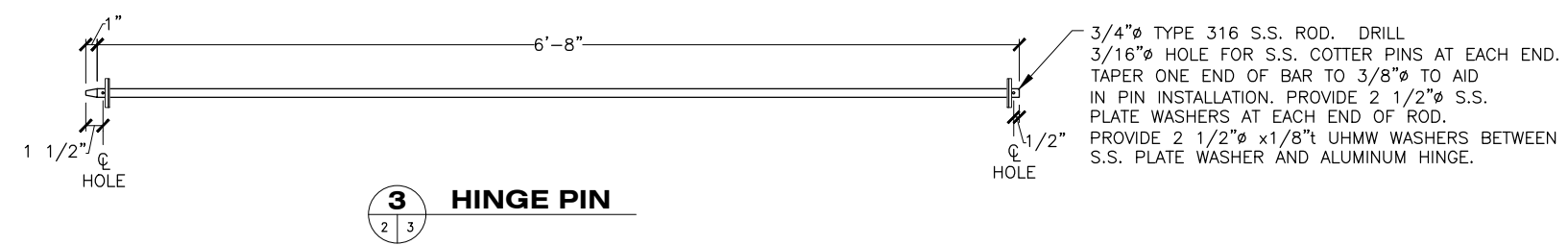
C STOWED TRANSITION PLATE

1 STATIONARY PLATE DETAILS

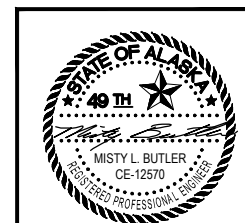
2 GRATING DETAILS
(2 TOTAL) APPX. WT: 35 LBS EA



4 MOUNTING PLATE



3 HINGE PIN



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSITION PLATE DETAILS

HH 10/01/2024

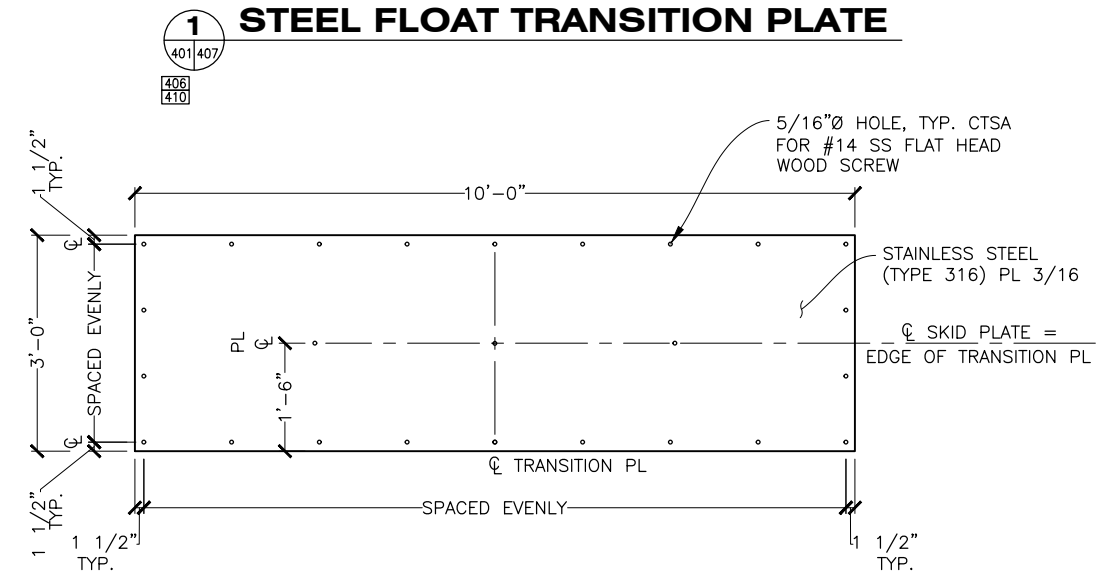
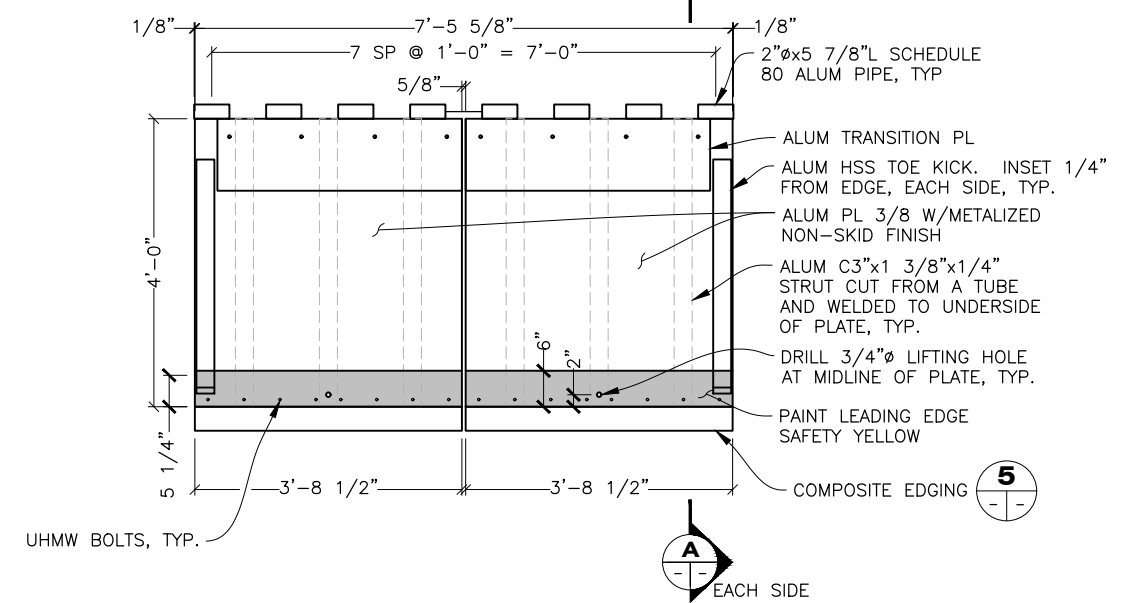
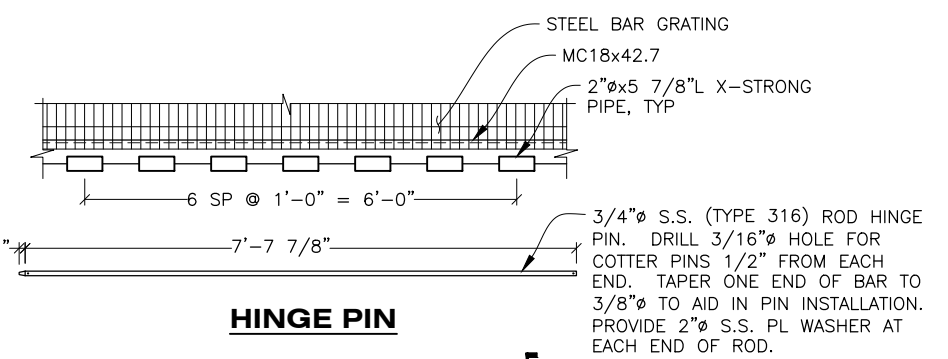
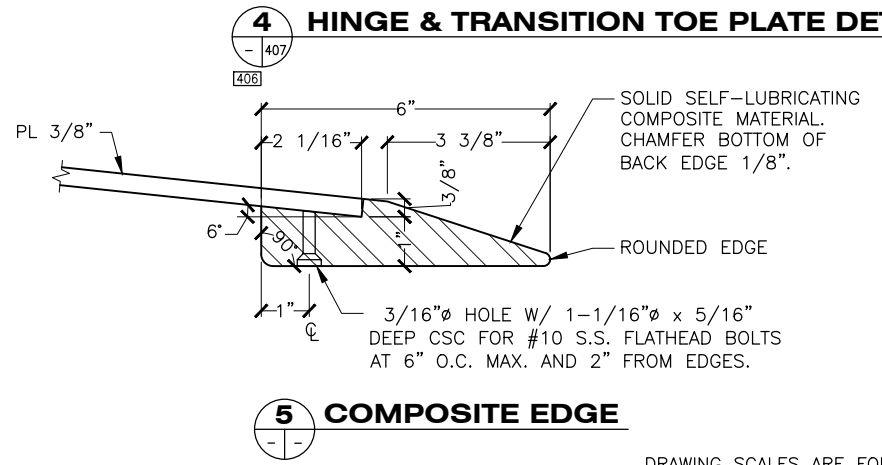
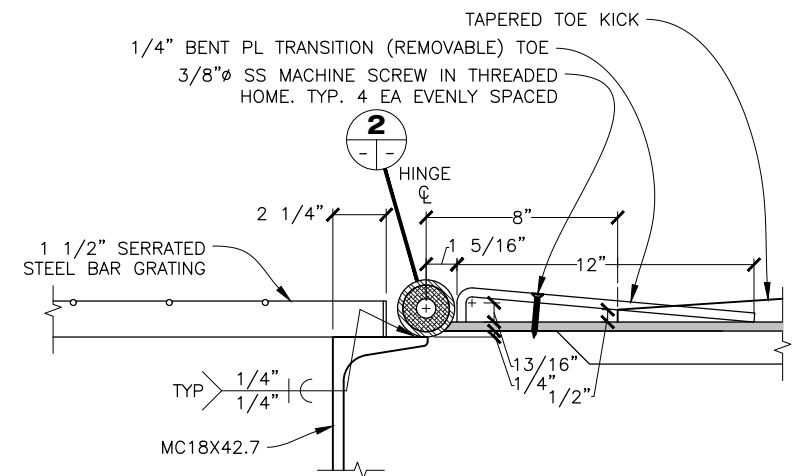
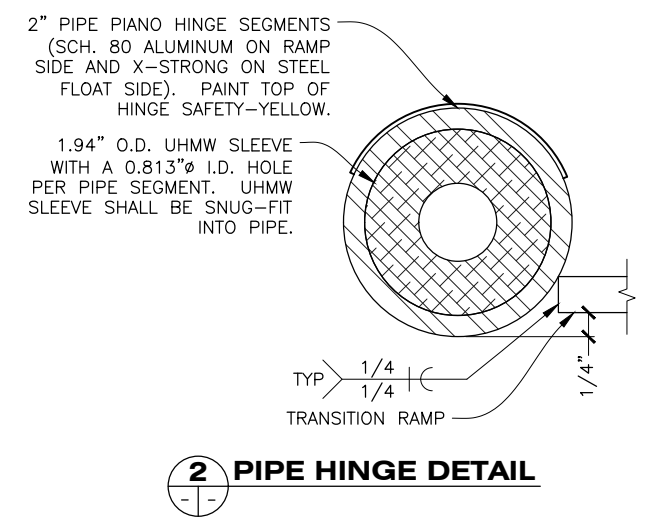
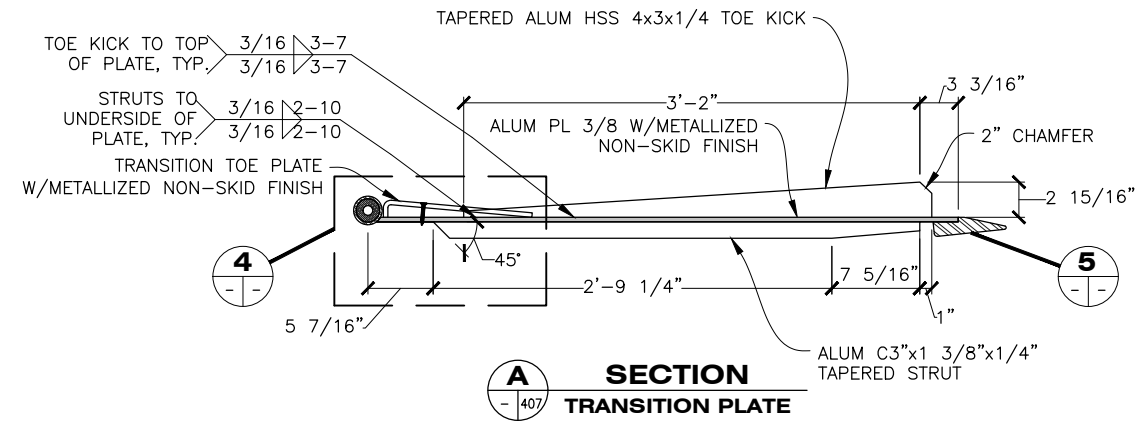
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

2/16/2021

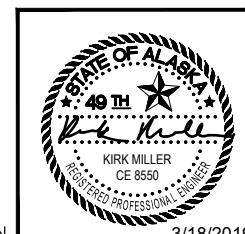
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 DATE: 3/18/2019 14:09 LAYOUT: 407
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	407	145



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TRANSITION PLATES DETAILS

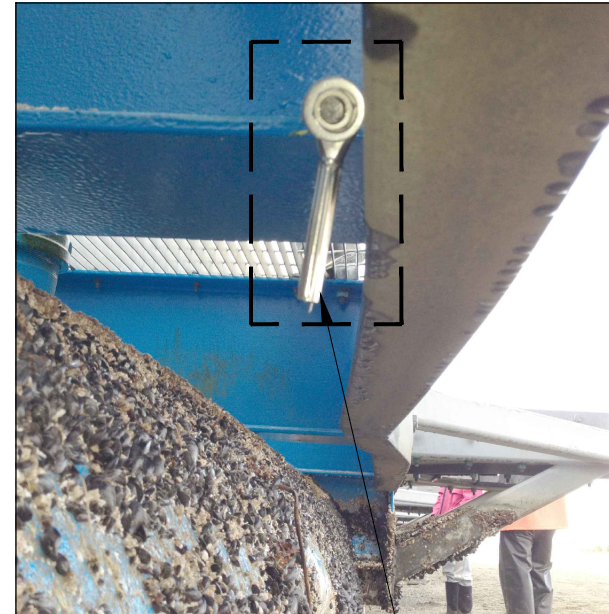
HH 10/01/2024

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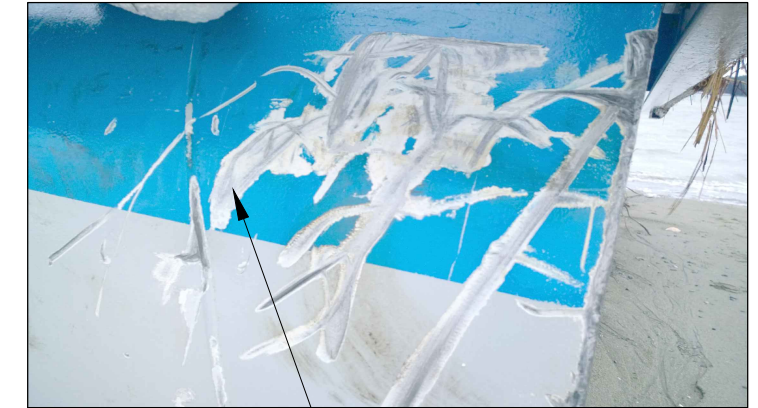
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			ALASKA	Z681280000/0003182	2019	408	145



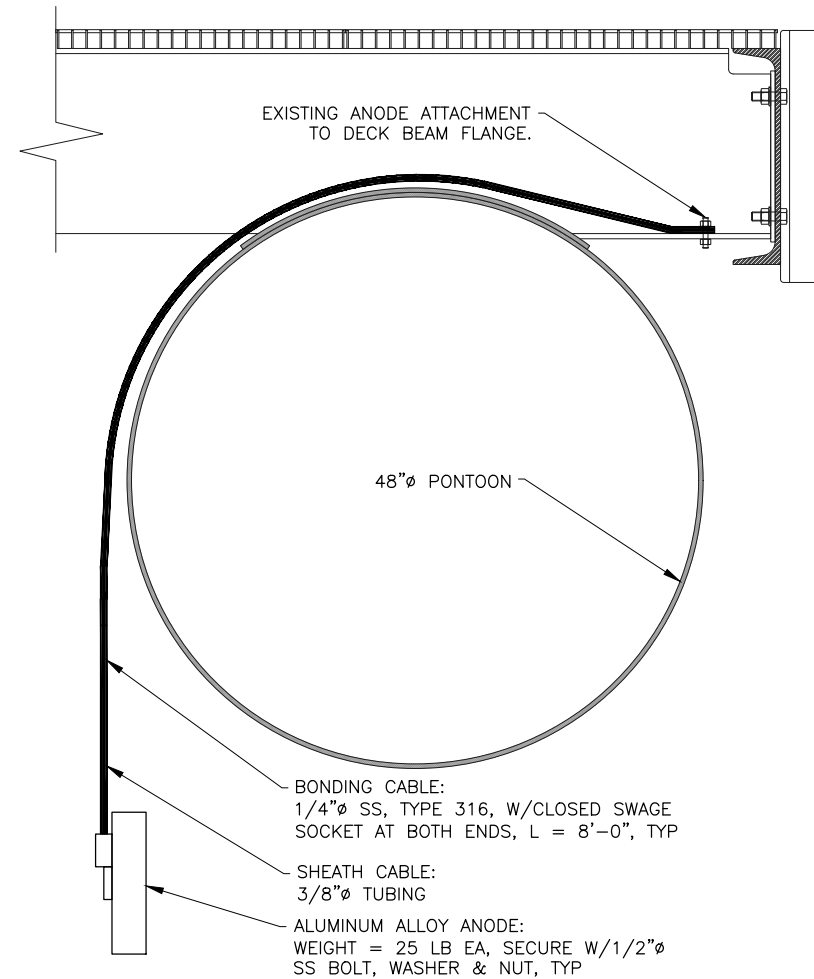
4
408/405 EXISTING BULLRAIL TO BE REMOUNTED



REPLACE ALL ANODES AND EXISTING CONNECTORS ALONG BACK OF STEEL FLOAT., TYP. A



REPAIR DAMAGED PAINT ON STEEL FLOAT PONTOONS.



A
- - STEEL FLOAT ANODE DETAIL
TYP. 12 PLACES



REPAIR DAMAGED ZINC-PAINT BOTTOM COAT ON STEEL FLOAT PONTOONS.



PROVIDE NEW DECK CLIP (SHOWN ABOVE) TO SECURE GRATING TO THE DECK BEAM FLANGE AT LOCATIONS WHERE THE ANCHOR BOLTS ARE DAMAGED/MISSING.

STEEL FLOAT REPAIR NOTES:

1. TEMPORARY RELOCATE AND MOOR THE FLOAT ON NEARBY BEACH TO FACILITATE REPAIRS DURING LOW TIDAL CYCLES TO AREAS BELOW WATER LINE. TIME FOR WORK BELOW WATERLINE WILL BE TIDAL DEPENDENT.
2. REMOVE ALL EXISTING ANODES AND CABLES CONNECTIONS. SALVAGE AND FURNISH TO ENGINEER IF NOT DAMAGED. INSTALL NEW ANODES AND CABLES AS NOTED.
3. CLEAN AND REPAIR DAMAGED PAINT COATINGS AT APPROXIMATELY 10 LOCATIONS, 100 SF.
4. PROVIDE NEW DECK CLIPS AND ASSOCIATED CONNECTION BOLT HARDWARE AT LOCATION WHERE EXISTING WELDED ANCHOR BOLTS ARE DAMAGED/MISSING. TYPICAL 100 LOCATIONS.

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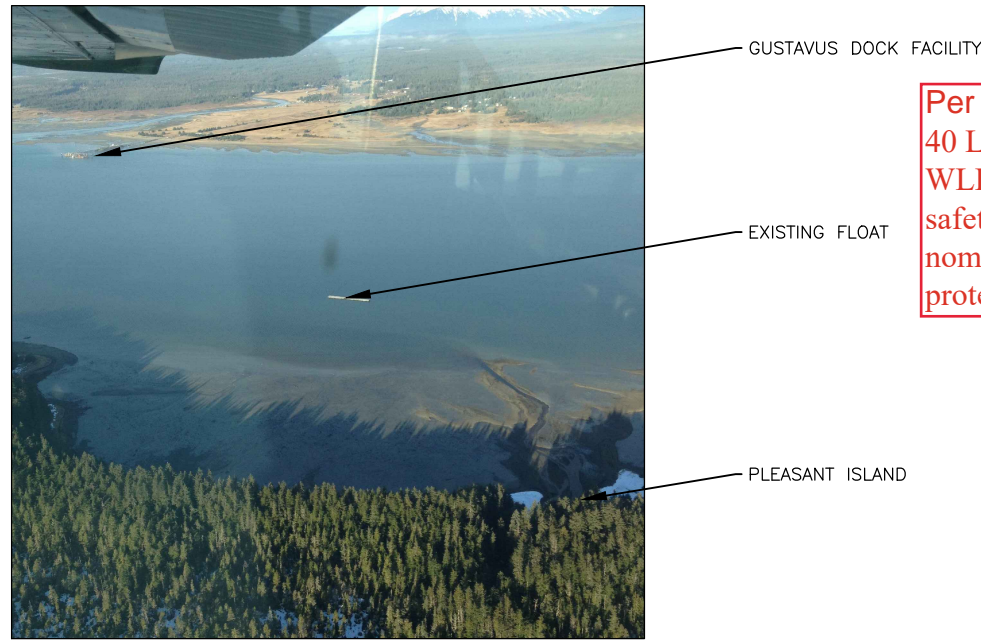
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

STEEL FLOAT REFURBISH ITEMS

HH 10/01/2024

FILE: G:\us\68128\WF\PLANSET\401-410 - STEEL FLOAT MODS.dwg
 DATE: 3/18/2019 14:08 LAYOUT: 409
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	409	145



**EXISTING MOORED FLOAT
AERIAL VIEW**

Per CO #6 additional new furnished materials
 40 LF of synthetic rope and four 1.5" HDG with min
 WLL of 17 metric tons bolt type anchor shackles with
 safety pins. Synthetic ropes shall be 12-Strand 2"
 nominal diameter, and have spliced ends and chaff
 protected eyes at each end.

NOTES:
 STEEL MOORING FLOAT IS TO BE MOORED AT THIS LOCATION BY OTHERS DURING THE WINTER MONTHS FOLLOWING CONSTRUCTION OF THIS PROJECT. REMOVE AND MODIFY EXISTING FLOAT AT LOCATION NOTED ON THE PLANS. REFURBISH EXISTING MOORING ANCHOR SYSTEM AS NOTED BELOW.

MOORING ANCHOR REFURBISHMENT:

- PULL EACH MOORING LINE AND ANCHOR. DOCUMENT LOCATION OF EACH ANCHOR PRIOR TO REMOVAL.
- REPLACE EXISTING ANCHOR CHAINS, SHACKLES AND ROPE WITH NEW MATERIALS. RE-DEPLOY ANCHORS AT EXISTING LOCATIONS. SET ALL ANCHORS BY PULLING WITH VESSEL.
- ATTACH EAST AND WEST ANCHOR LINES TO 2 EACH, NEW MOORING BUOYS (ATTACH TWO ANCHOR LINES TO A SINGLE BUOY ON EACH END)

NEW MATERIALS TO BE FURNISHED:

SYNTHETIC ROPE. 12-STRAND. 2" NOMINAL DIAMETER. 4 SECTIONS. 200 LF PER SECTION WITH SPLICED AND CHAFF PROTECTED EYES AT EACH END.

ANCHOR CHAIN. 1.5" NOMINAL SIZE. 4 SECTIONS. 40 LF PER SECTION. HOT-DIP GALVANIZED.

CHAIN SHACKLES. 1.5" NOMINAL SIZE. 12 EACH. BOLT TYPE WITH COTTER PINS. HOT DIP GALVANIZED.

2 EACH, 24" DIAMETER COMMERCIAL, HEAVY DUTY MOORING BUOYS (PLASTIC, FIBERGLASS OR STEEL) AND ASSOCIATED CONNECTION HARDWARE TO ATTACH TWO SHACKLES TO ONE BUOY.

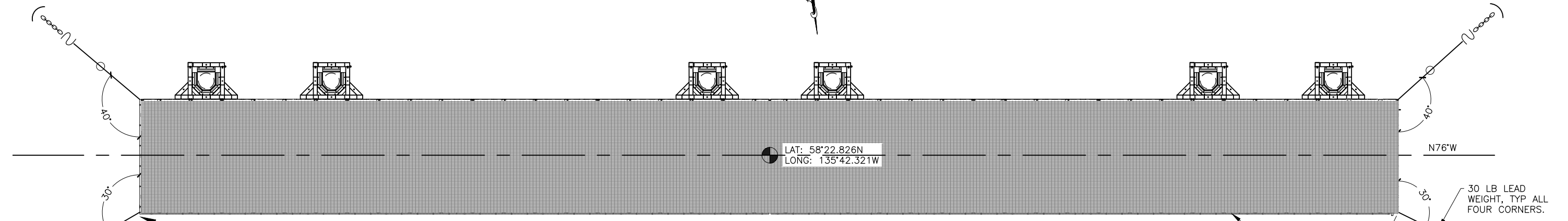
4 EACH, 30 LB LEAD WEIGHT TIED TO ROPE.

EXISTING MATERIALS TO BE SALVAGED:

SALVAGE ALL EXISTING ANCHOR CHAINS, ROPES AND ANCHORS. RE-USE EXISTING ANCHORS AT SAME LOCATIONS. DELIVER EXISTING CHAINS, ROPES AND SHACKLES TO THE CITY OF GUSTAVUS TO STORAGE LOCATION WITHIN 2-MILE RADIUS OF GUSTAVUS FERRY TERMINAL AND PUBLIC DOCK.

2500 LB ANCHOR
 40 LF 1 1/2" CHAIN
 200 LF 1 1/2" ROPE
 DEPTH: -19.5'

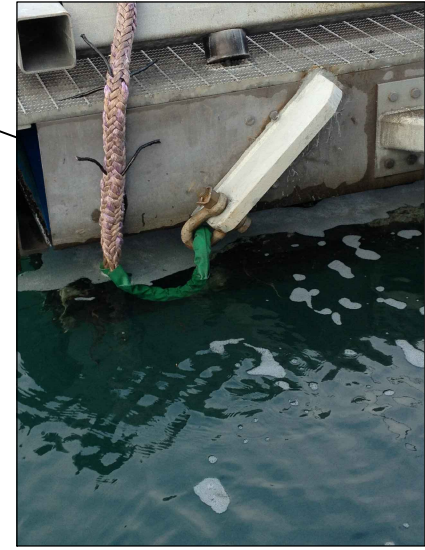
2500 LB ANCHOR
 40 LF 1 1/2" CHAIN
 200 LF 1 1/2" ROPE
 DEPTH: -24'



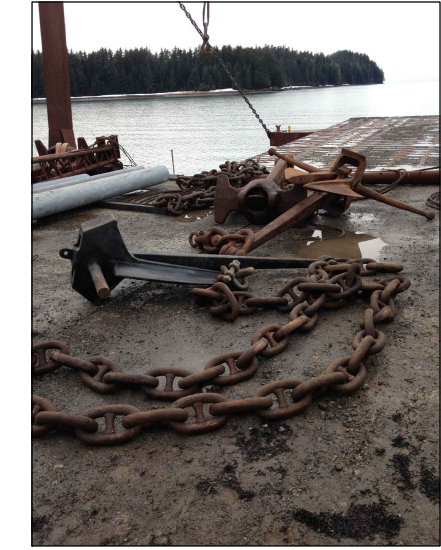
**PLAN
MOORING ANCHOR**

DEPTH: -37'
 2500 LB ANCHOR
 40 LF 1 1/2" CHAIN
 200 LF 1 1/2" ROPE

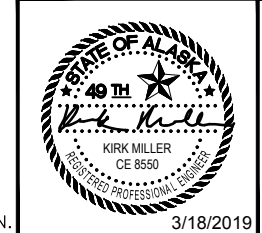
DEPTH: -40'
 2500 LB ANCHOR
 40 LF 1 1/2" CHAIN
 200 LF 1 1/2" ROPE



**EXISTING ANCHOR LINE
ATTACHMENT**



EXISTING ANCHOR & CHAIN

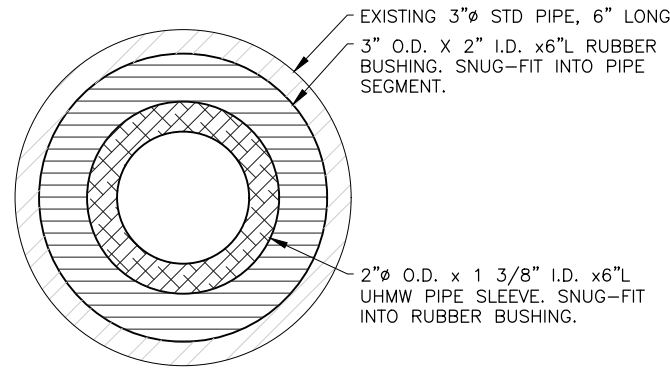


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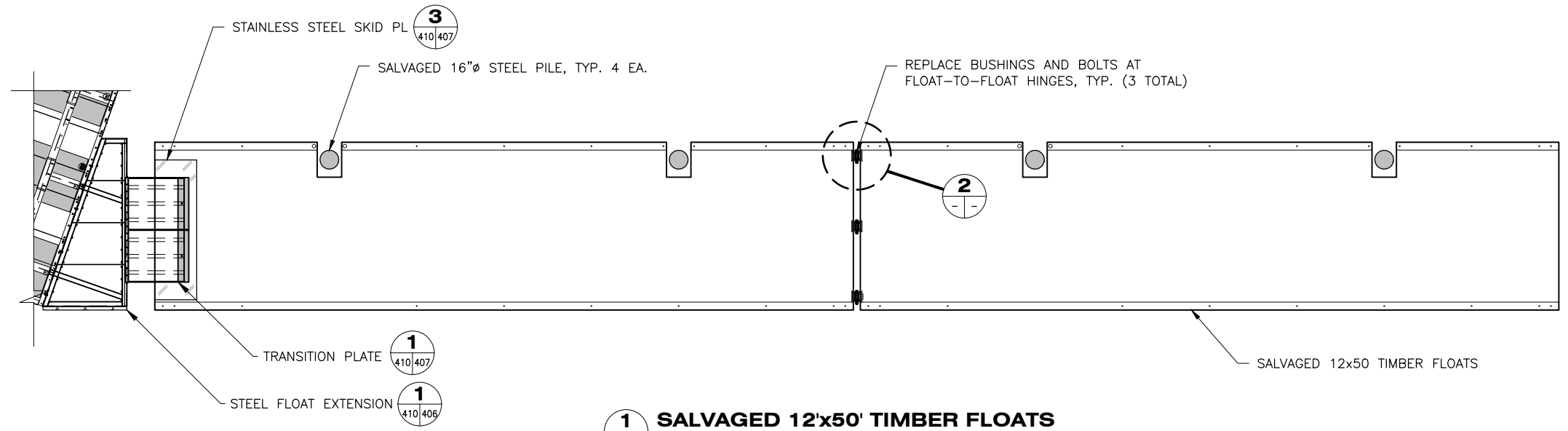
GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

**FLOAT MOORING DETAILS
HH 10/01/2024**

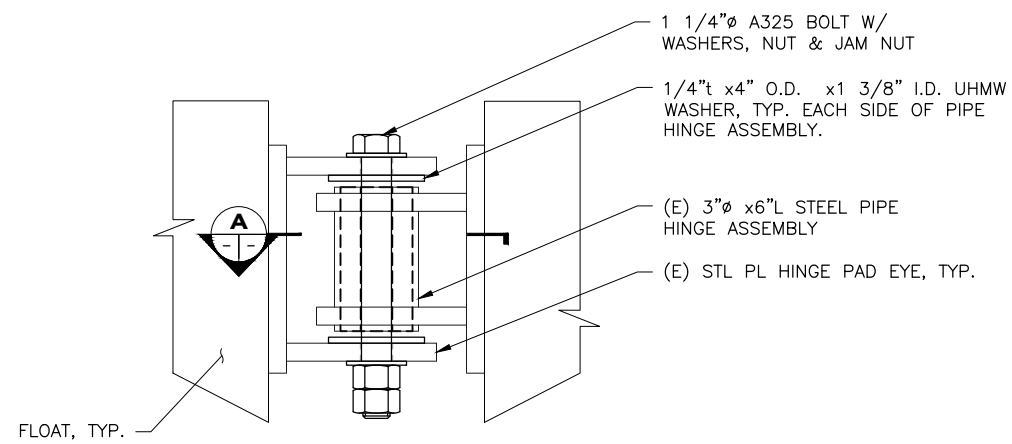
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	410	145



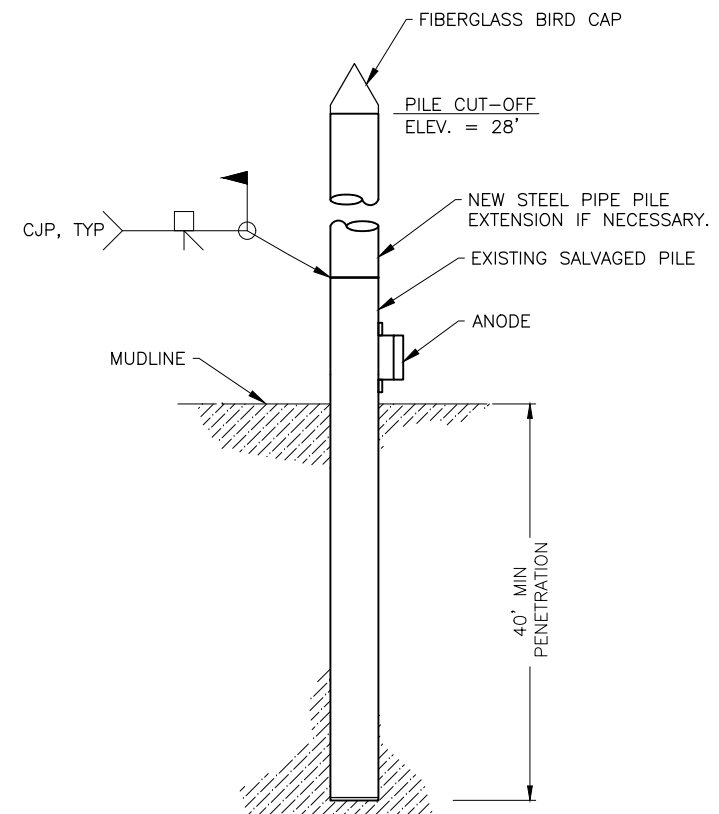
A HINGE BUSHING DETAIL



1 SALVAGED 12'x50' TIMBER FLOATS



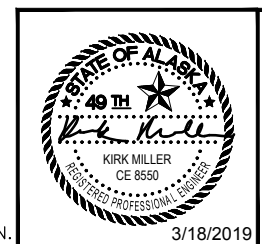
2 TYP. ASSEMBLY DETAIL



B TYP TIMBER FLOAT PILE DETAIL

FILE q:\Gus\68128\WF\PLANSET\401-410 - STEEL FLOAT MODS.dwg DATE 3/18/2019 14:08 LAYOUT 410 CHECKED STAFF DESIGNED STAFF DRAFTED STAFF

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

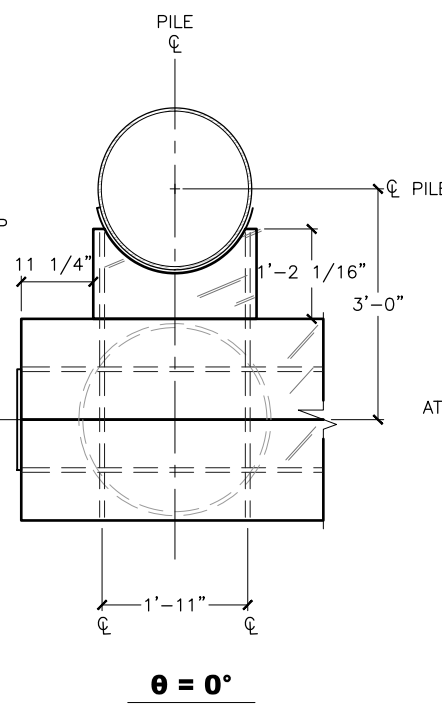
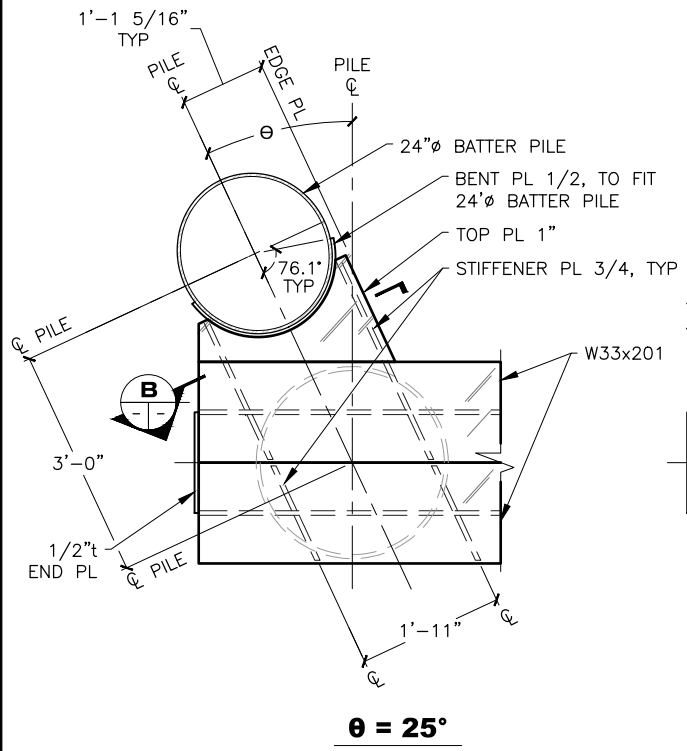


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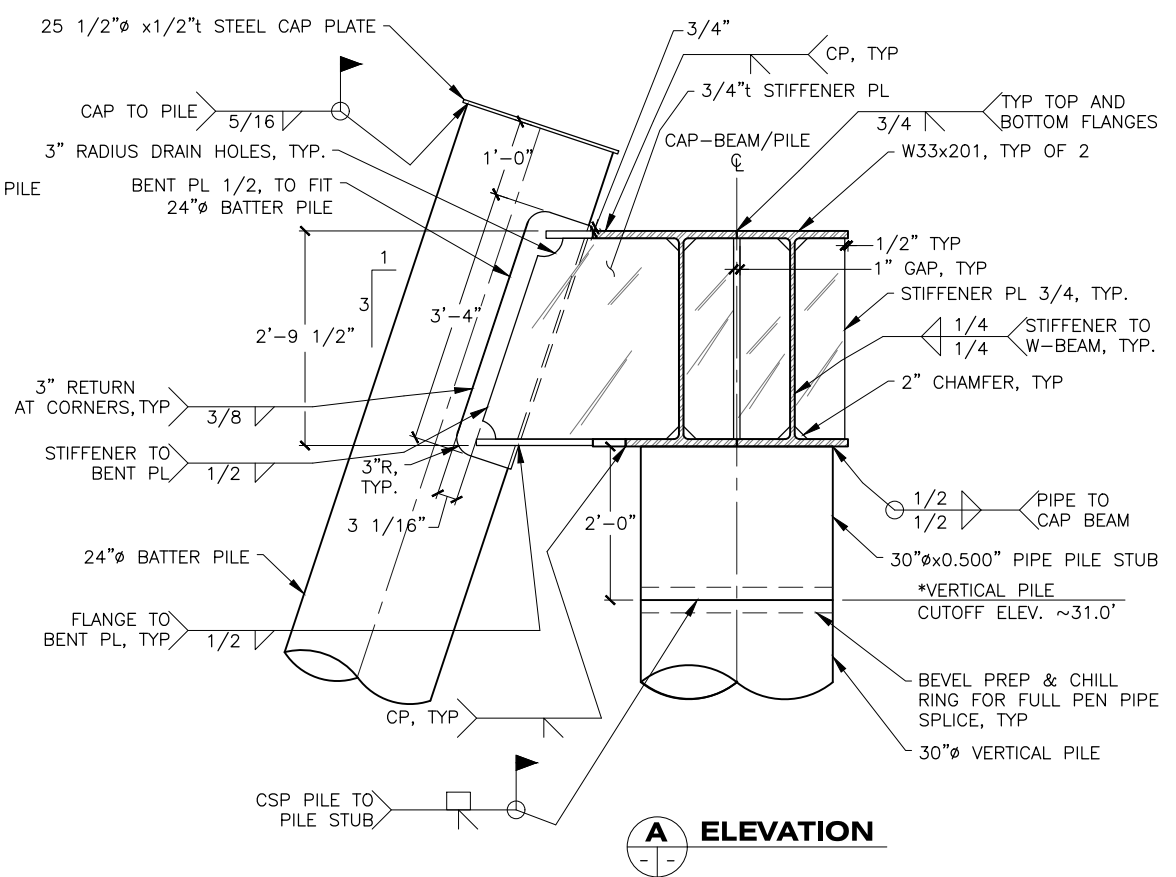
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

TIMBER FLOAT DETAILS
HH 10/01/2024

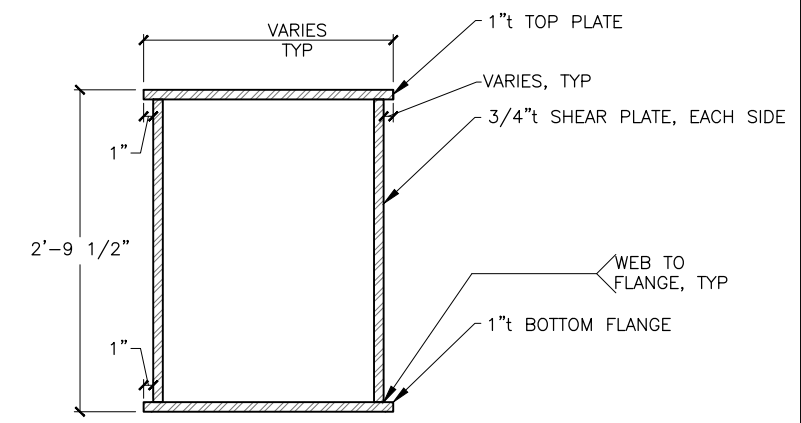
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	411	145



1 DETAIL

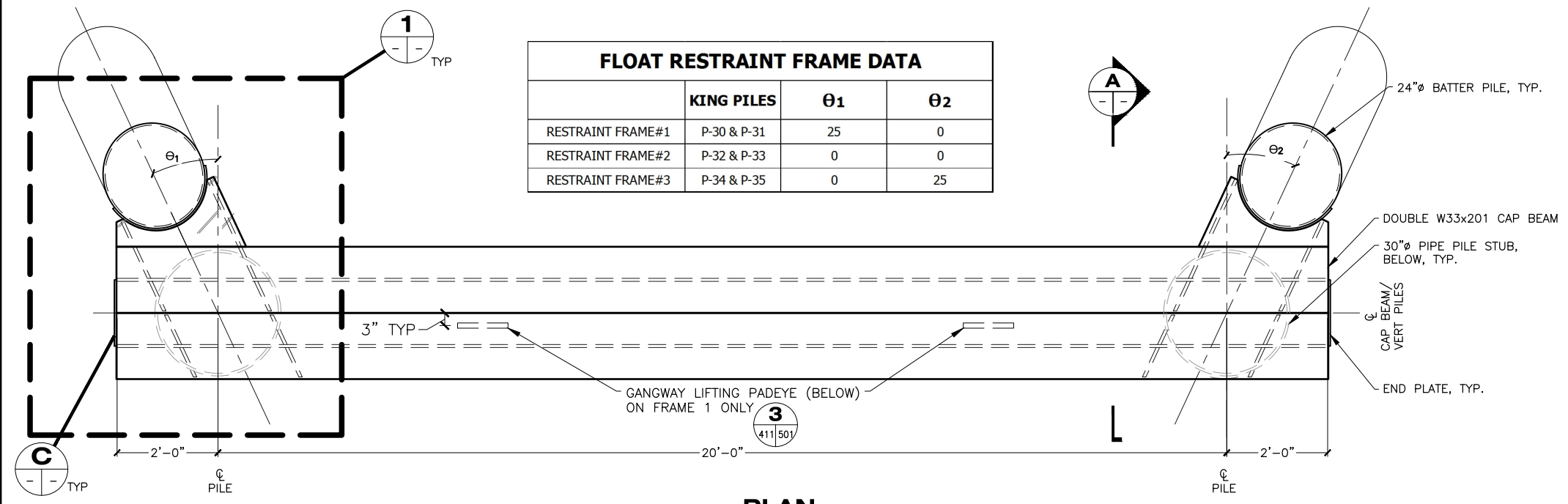


A ELEVATION

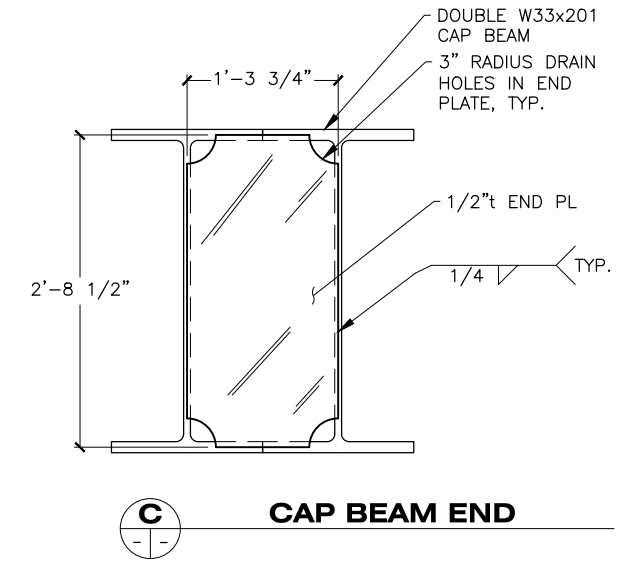


B SECTION - BATTER CHUTE SUPPORT
(BATTER CHUTE NOT SHOWN FOR CLARITY)

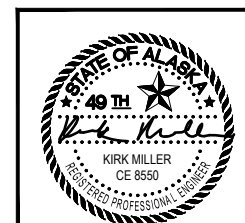
FLOAT RESTRAINT FRAME DATA			
	KING PILES	θ ₁	θ ₂
RESTRAINT FRAME#1	P-30 & P-31	25	0
RESTRAINT FRAME#2	P-32 & P-33	0	0
RESTRAINT FRAME#3	P-34 & P-35	0	25



PLAN
FLOAT RESTRAINT FRAME



C CAP BEAM END



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

STEEL FLOAT RESTRAINT FRAME

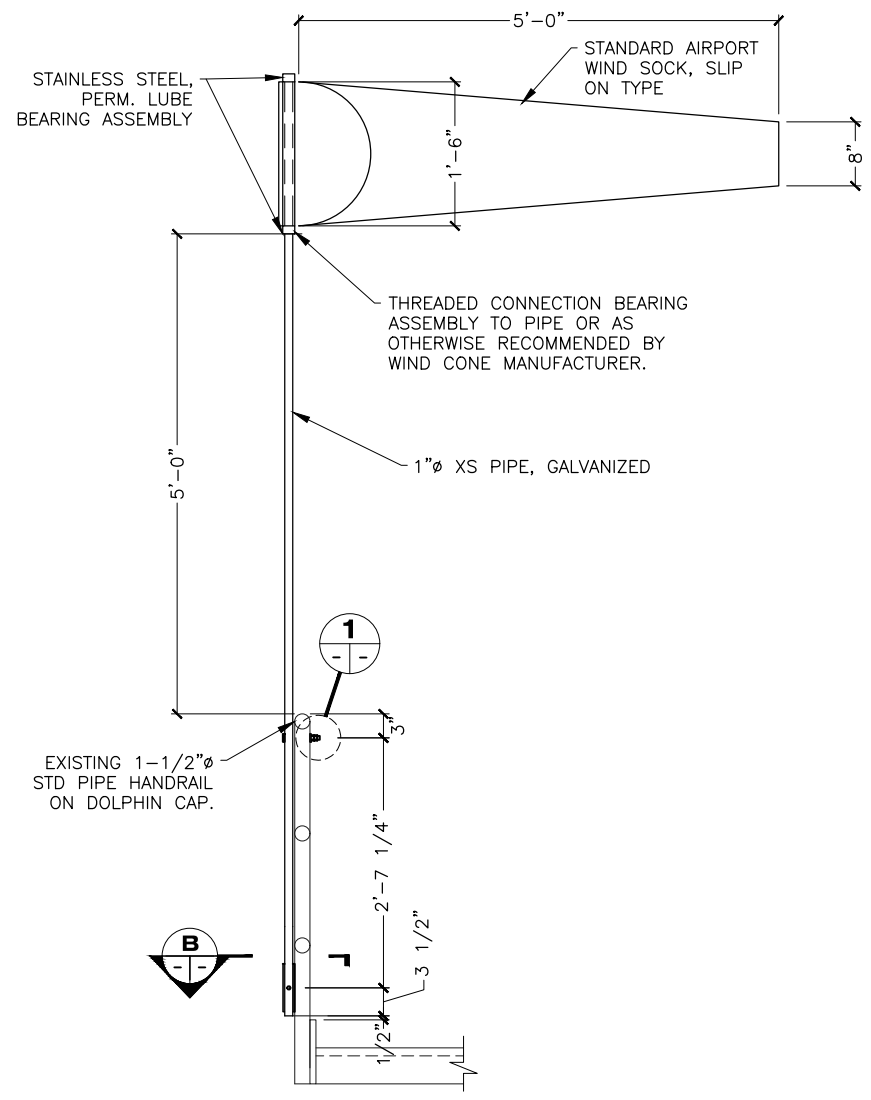
HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

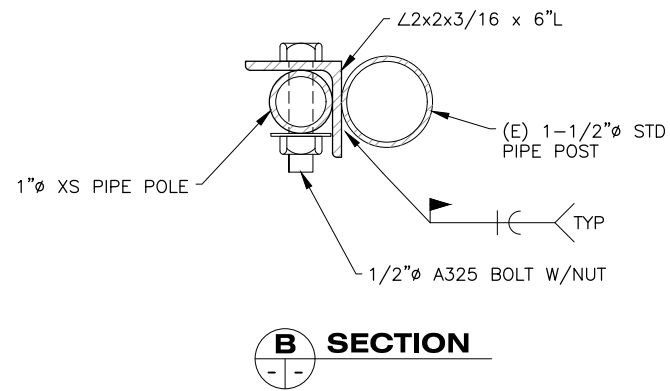
3/18/2019

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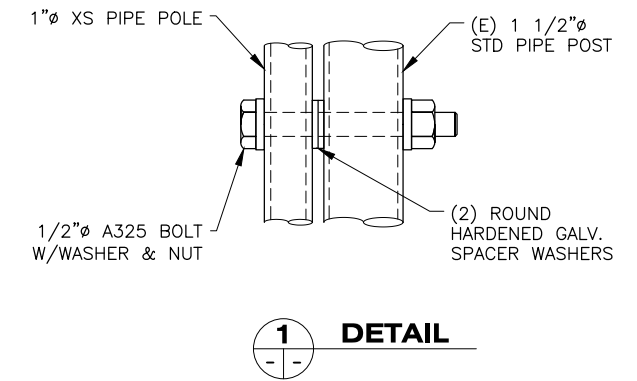
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			ALASKA	Z681280000/0003182	2019	412	145



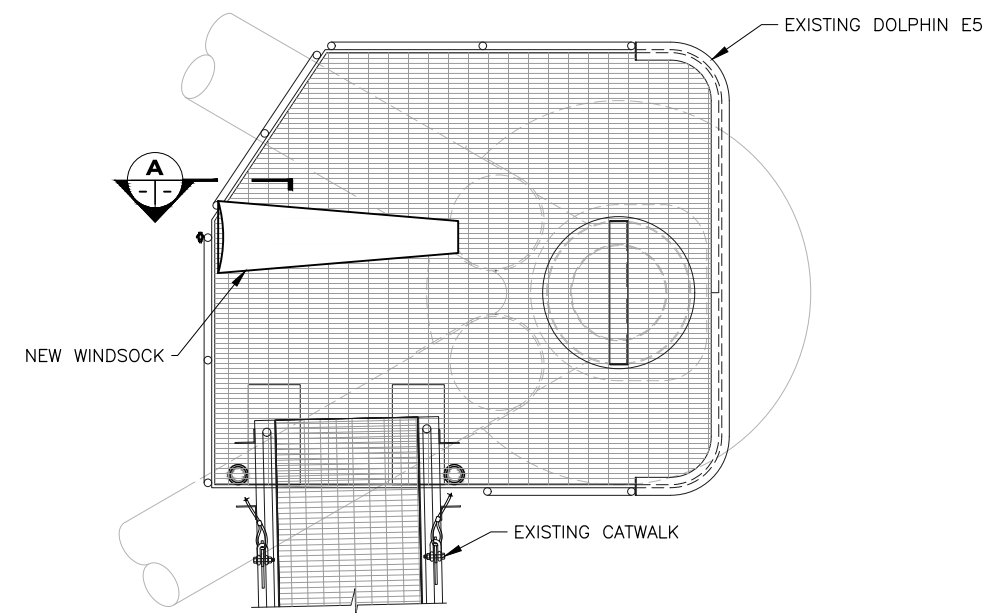
A ELEVATION - WINDSOCK
DOLPHIN E5



B SECTION

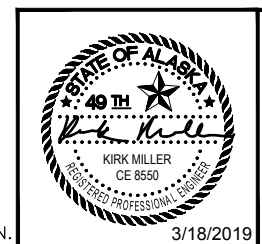


1 DETAIL



1 PLAN - WINDSOCK
DOLPHIN E5

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

WINDSOCK DETAILS

HH 10/01/2024

FILE: q:\gus\68128\WF\PLANSET\412 - WINDSOCK DETAILS.dwg | DATE: 3/18/2019 14:08 | LAYOUT: 412 | DESIGNED: STAFF | CHECKED: STAFF | DRAFTED: STAFF

FILE: q:\ous\68128\WF\PLANSET\501 - 80ft GANGWAY PLAN & ELEVATION.dwg
 DATE: 3/18/2019 14:11
 LAYOUT: 501
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF

GENERAL NOTES:

ALL GANGWAY DETAILS ARE NOT SHOWN. FINAL DESIGN OF GANGWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION:

1. PLANSET
2. CALCULATIONS
3. SHOP DRAWINGS

SUPPORTING DOCUMENTATION AND STRUCTURAL CALCULATIONS SHALL BE PERFORMED BY A REGISTERED ENGINEER IN THE STATE OF ALASKA.

DESIGN CRITERIA:

ALL DESIGN AND FABRICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES:

1. ASCE/SEI STANDARD, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (LATEST EDITION)
2. ALUMINUM DESIGN MANUAL (LATEST EDITION)
3. AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, (LATEST EDITION)
4. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS (LATEST EDITION)
5. AISC STEEL CONSTRUCTION MANUAL (LATEST EDITION)
6. AWS D1.1 & D1.2, STRUCTURAL WELDING CODE (LATEST EDITION)
7. APPLICABLE ASTM STANDARDS

LOADS:

- DEAD LOADS - ALL
- LIVE LOADS - UNIFORM 90 PSF, OR CONCENTRATED 1,000 LBS FOR CRITICAL LOADING
- WIND LOAD - 120 MPH (3 SEC GUST), LOW RISK CATEGORY: MRI=300 YRS
- GROUND SNOW LOAD, p_g - 66 PSF (50 YR RECURRENCE INTERVAL) WHILE STOWED
- VEHICLE - ATV (POLARIS RANGER 6x6 W/500 LB PAYLOAD)

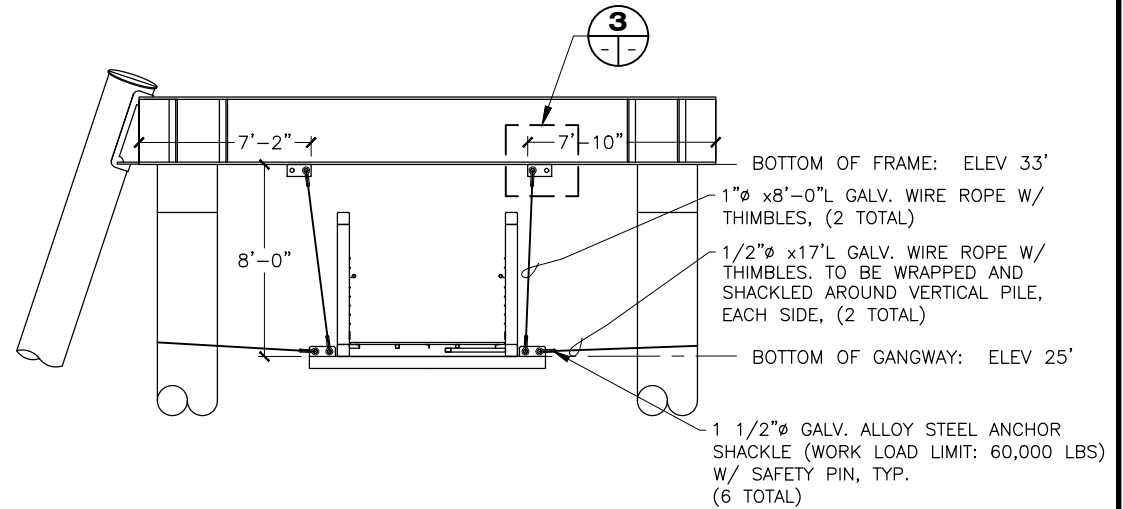
INCLUDE AS A MINIMUM TO LOAD COMBINATIONS:

1. STOWED LOADS
2. ERECTION LOADS

MATERIALS:

- ALUMINUM - SHAPES ASTM 6061-T6, PLATES ASTM 5086-H112
- HARDWARE - ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL ASTM TYPE 316 ALLOY OR A325 GALVANIZED STEEL AS INDICATED ON THE DRAWINGS.
- DECK GRATING - 1" TALL PULTRUDED FIBERGLASS GRATE SHALL BE INSTALLED ACROSS THE FULL WIDTH OF THE GANGWAY AS NOTED ON THE DRAWINGS. GRATE SHALL BE ADA COMPLIANT, W/HEAVY NON-SKID GRIT, DARK GRAY IN COLOR. ATTACH GRATE TO DECK SUPPORT MEMBERS W/ SS CLIPS, BOLTS & LOCKING NUTS, TYP. GRATING MANUFACTURER SHALL HAVE A QUALITY CONTROL PLAN IN PLACE THAT CAN BE REVIEWED AT THE ENGINEERS REQUEST.
- TRANSITION PLATES - TRANSITION PLATES SHALL BE FULL SIZE ALUMINUM SHEET STOCK WITH A METALIZED NON-SKID FINISH PER SPECIFICATIONS.
- UHMW - ULTRA HIGH MOLECULAR WEIGHT PLASTIC SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM 4020. MATERIAL SHALL BE CHEMICALLY CROSS LINKED, ULTRA-VIOLET LIGHT STABILIZED, AND SUITABLE FOR LONG TERM EXPOSURE. UHMW ON SKID SHOES SHALL BE BLACK. UHMW NOSING ON TRANSITION PLATES SHALL BE YELLOW.

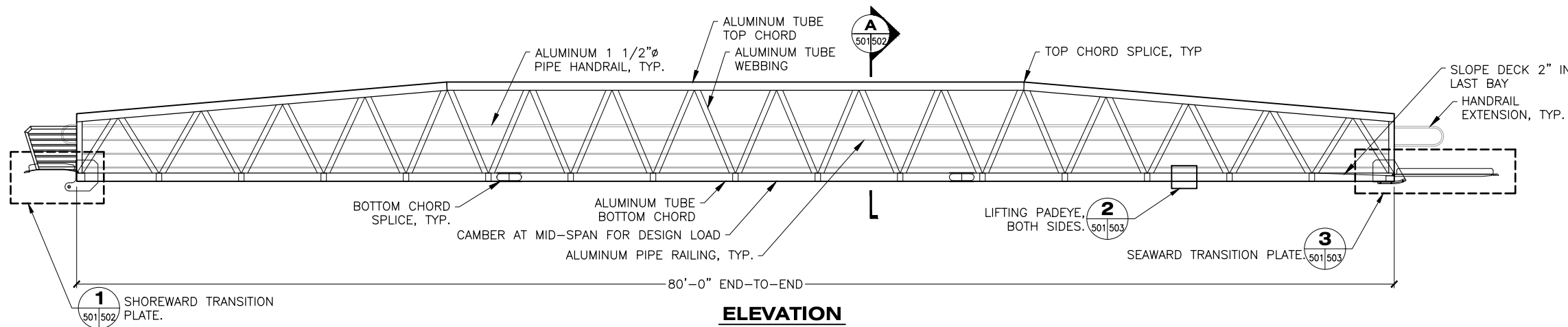
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			ALASKA	Z681280000/0003182	2019	501	145



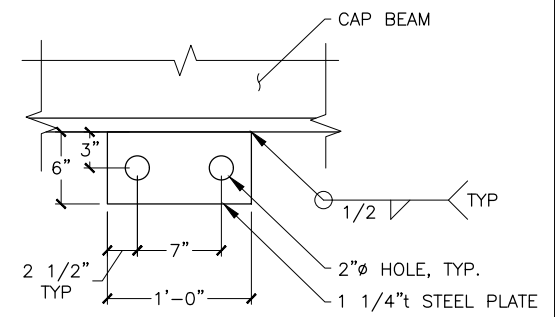
2 STOWED GANGWAY DETAIL

NOTES:

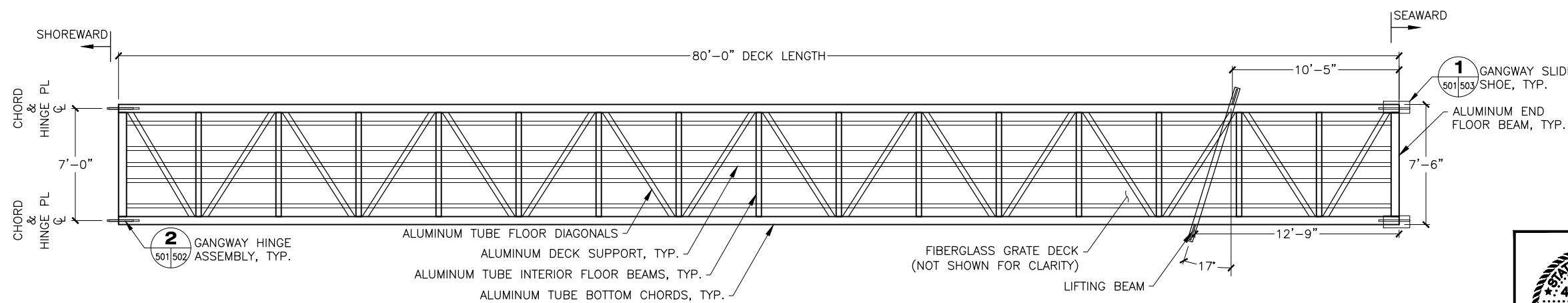
1. GANGWAY SHOWN AT ELEVATION FOR WINTER STORAGE.
2. WIRE ROPES SHALL HAVE THIMBLES AT EACH END LARGE ENOUGH TO ACCOMMODATE A 3 1/2" DIAMETER EAR WIDTH ON THE SHACKLES, AND SHALL BE PROOF TESTED TO 35,000 LBS AFTER THIMBLES ARE ATTACHED.



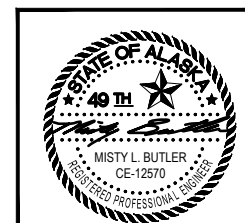
ELEVATION



3 GANGWAY LIFTING PADEYE



FLOOR FRAMING PLAN



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

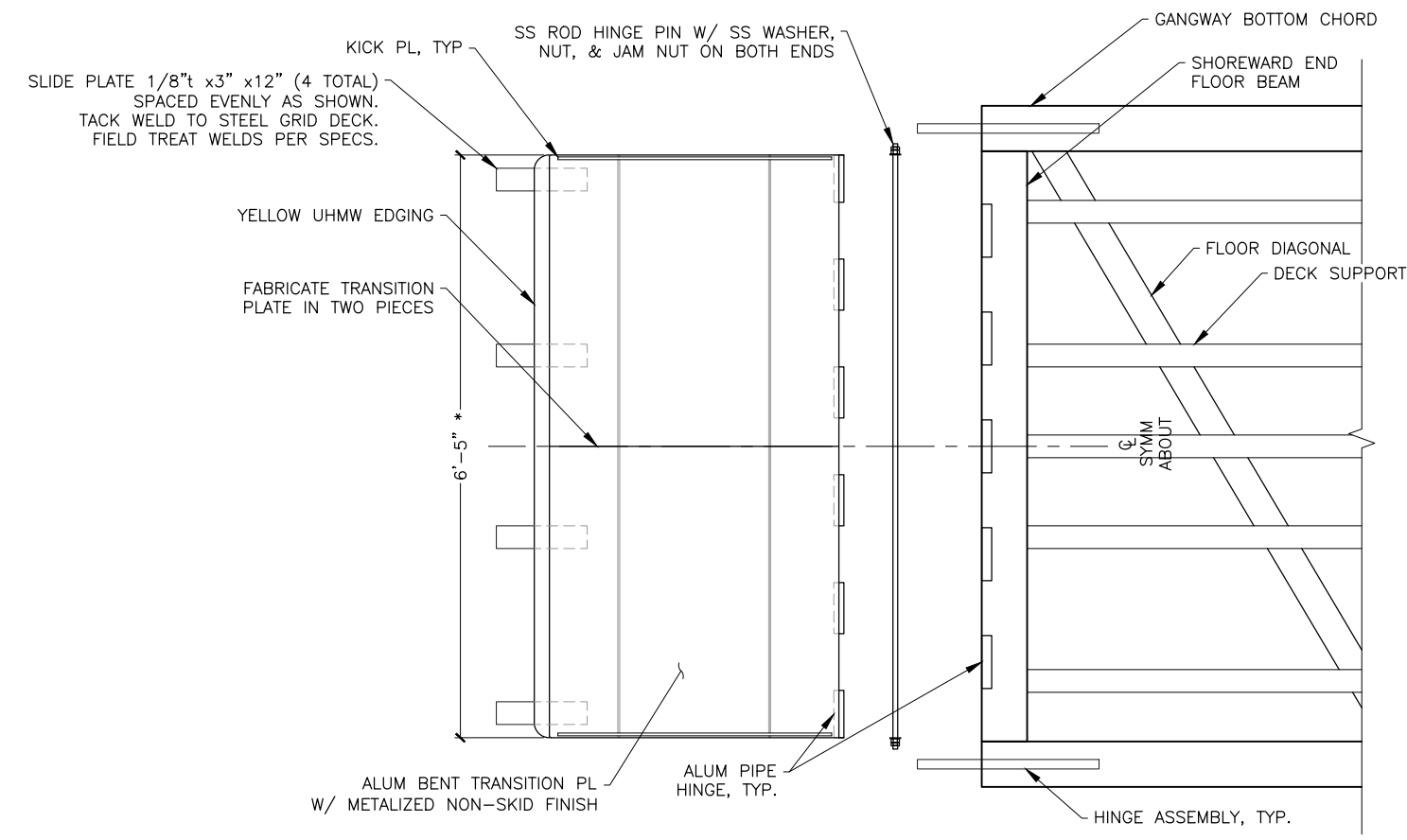
80' GANGWAY PLAN & ELEVATION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

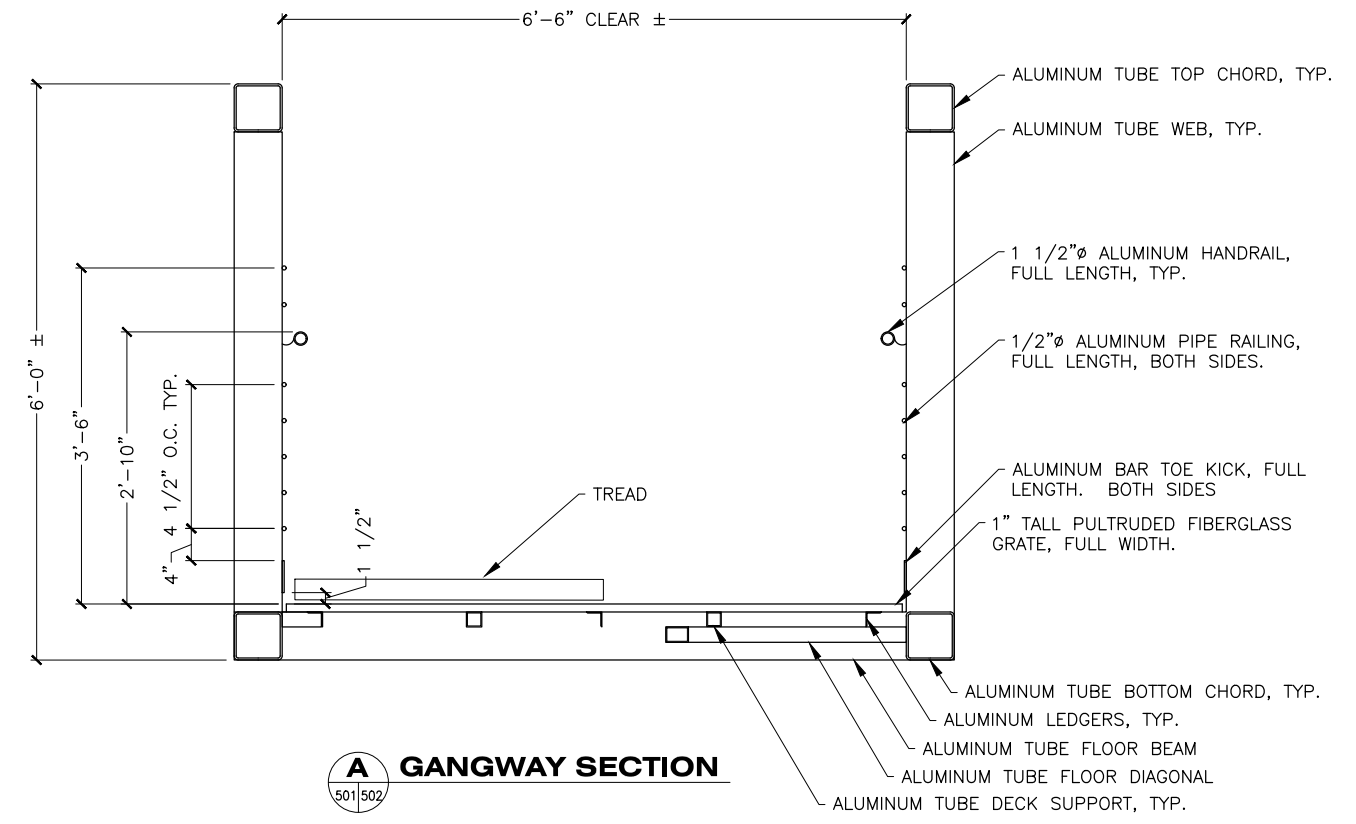
HT 10/01/2024

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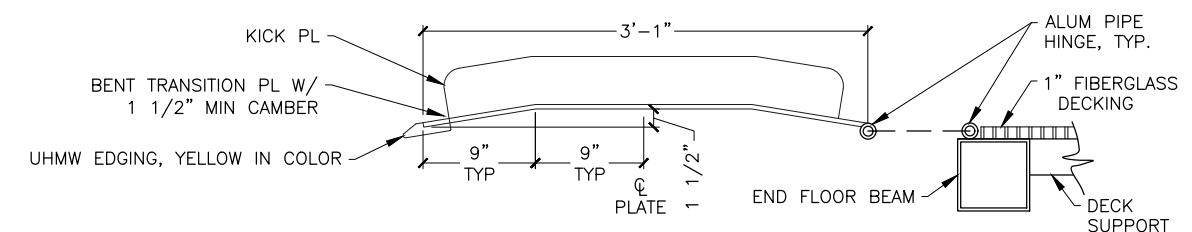


GANGWAY TRANSITION PL ASSEMBLY
PLAN
(SHOREWARD END)

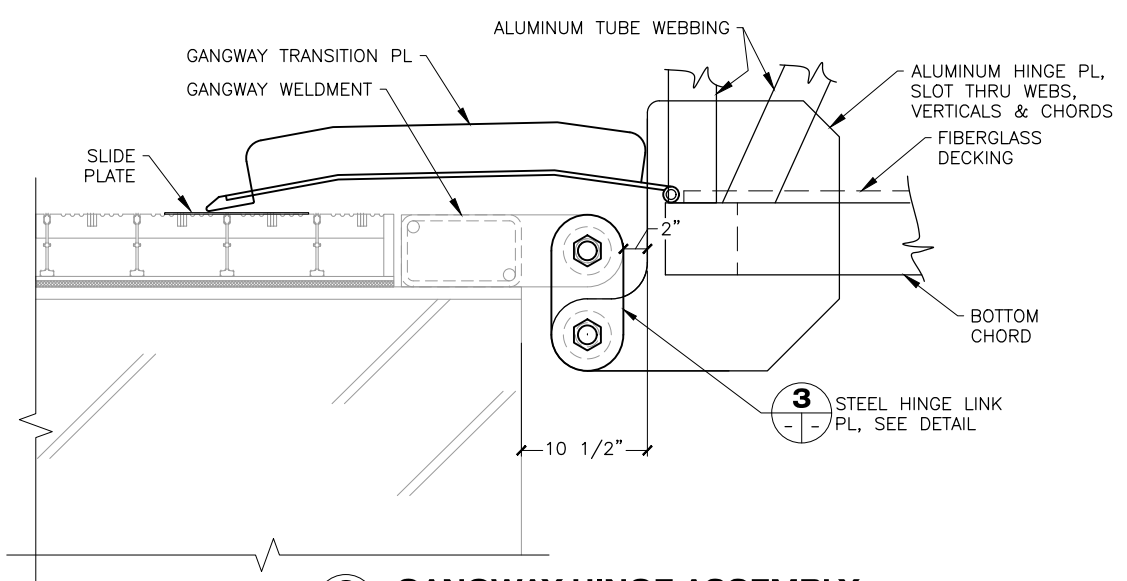
*CONTRACTOR SHALL VERIFY DIMENSION W/ FINAL GANGWAY DIMENSIONS TO ENSURE PROPER FIT-UP



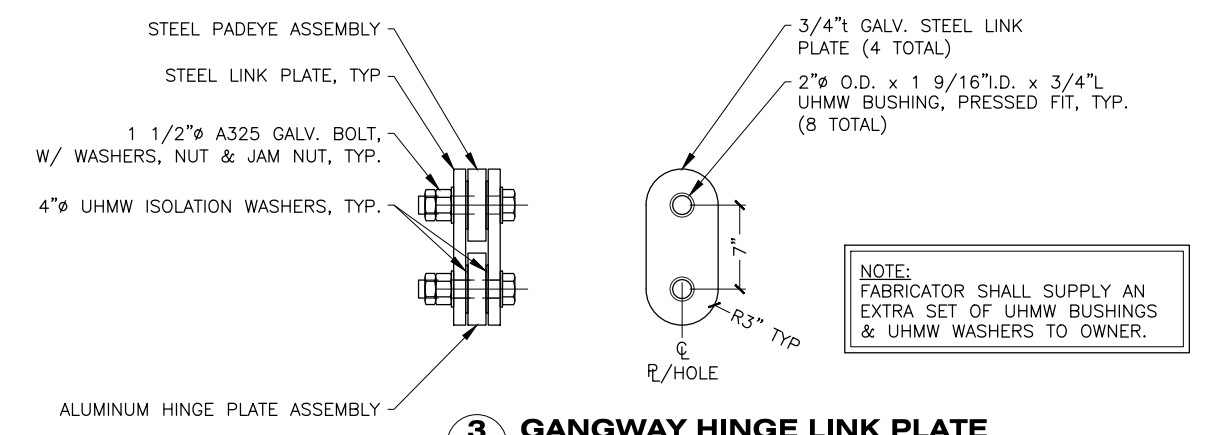
A GANGWAY SECTION
501|502



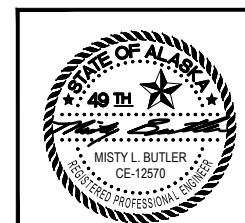
1 SHOREWARD TRANSITION PL ASSEMBLY
SECTION
(SHOREWARD END)
501|502



2 GANGWAY HINGE ASSEMBLY
ELEVATION
501|502



3 GANGWAY HINGE LINK PLATE
DETAILS
245



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

80' GANGWAY TYPICAL SECTION & DETAILS

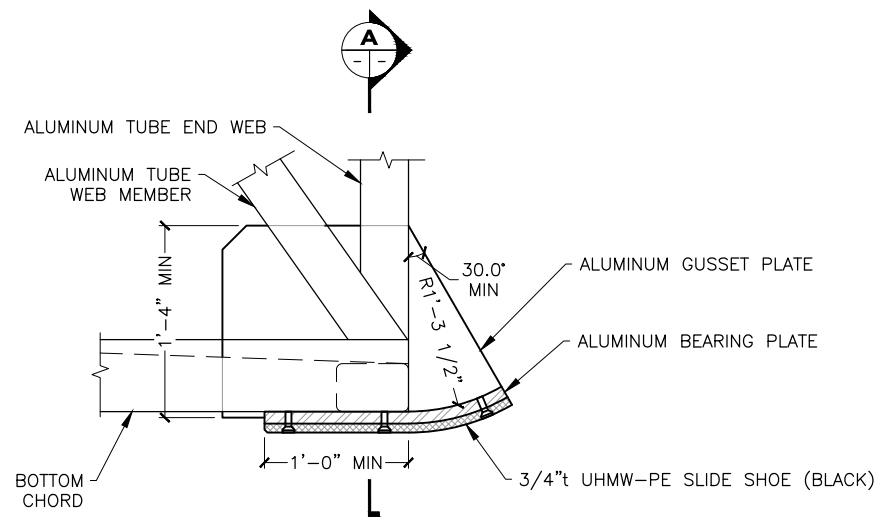
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019

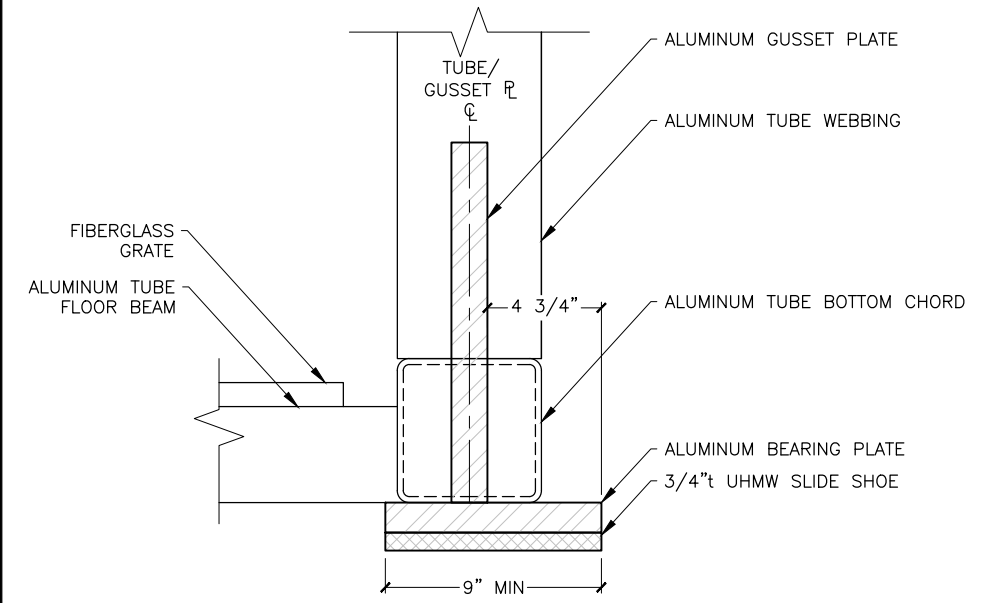
HH 10/01/2024

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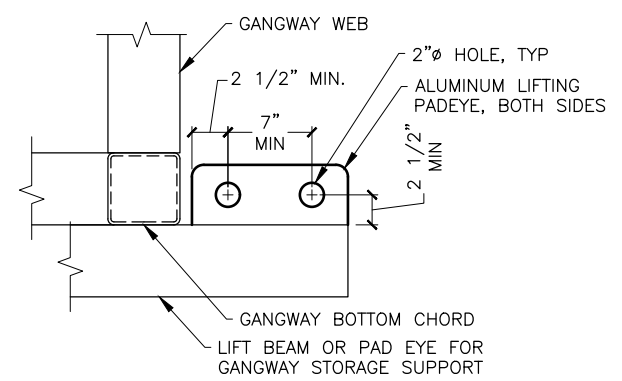
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	503	145



1 GANGWAY SLIDE SHOE ASSEMBLY ELEVATION
501/503

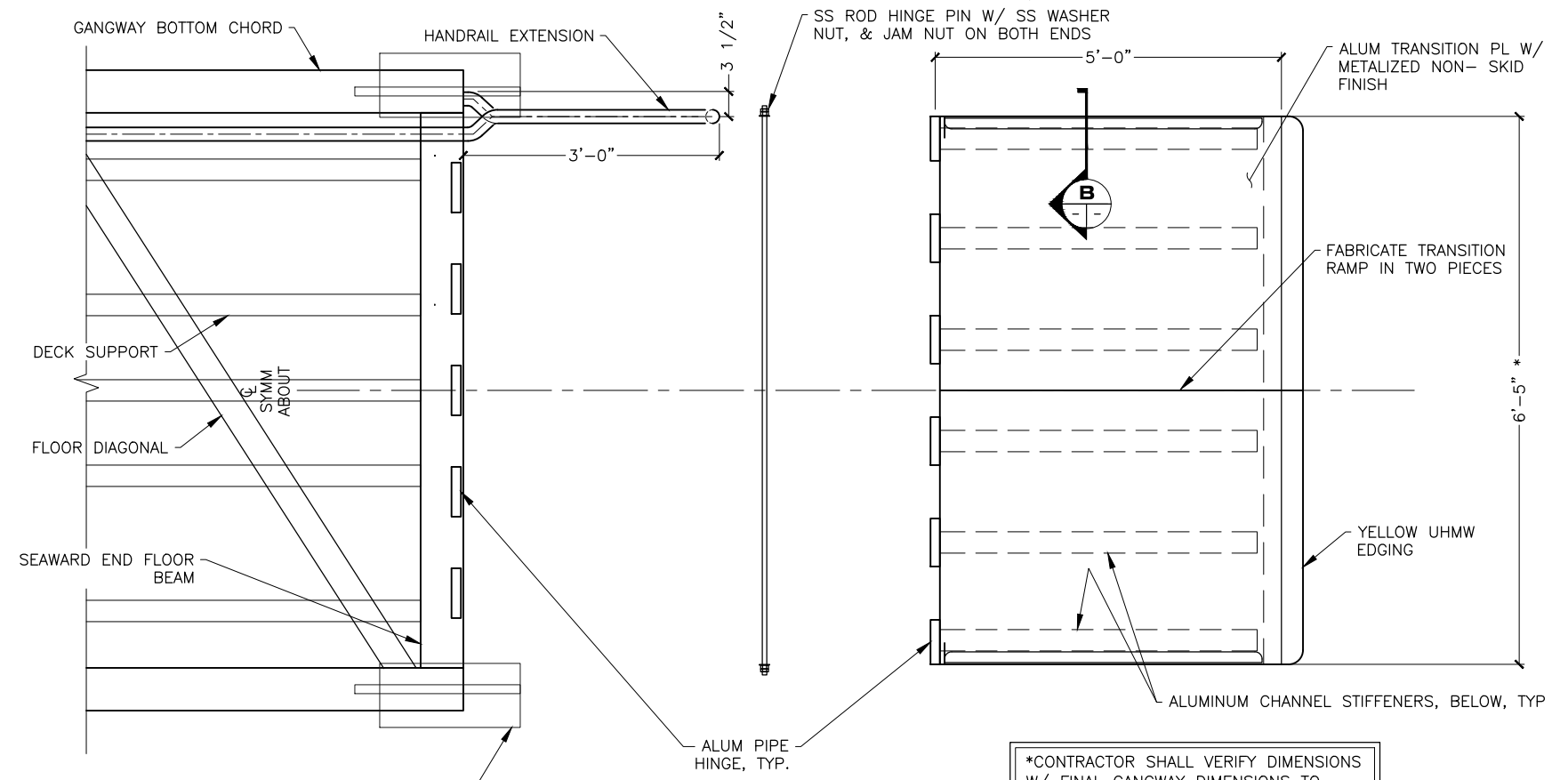


A GANGWAY SLIDE SHOE ASSEMBLY SECTION



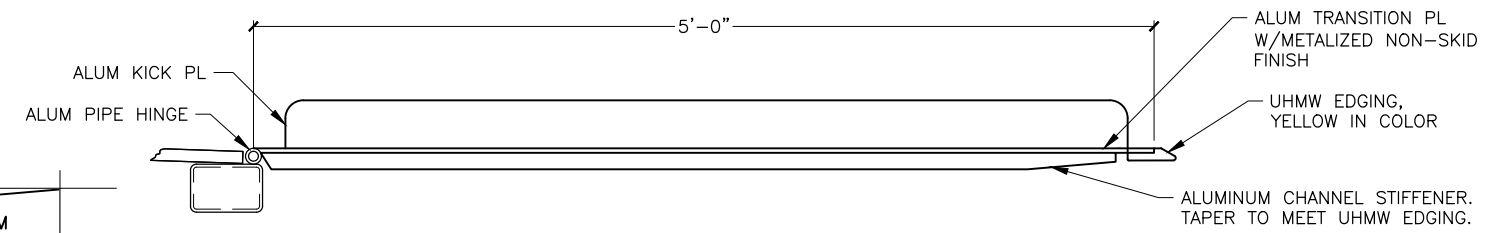
2 GANGWAY LIFTING PAIDEYE SIDE VIEW
501/503

NOTE: GENERAL REQUIREMENTS NOTED. FINAL DESIGN AND ATTACHMENT TO GANGWAY SHALL BE THE RESPONSIBILITY OF THE GANGWAY DESIGNER.

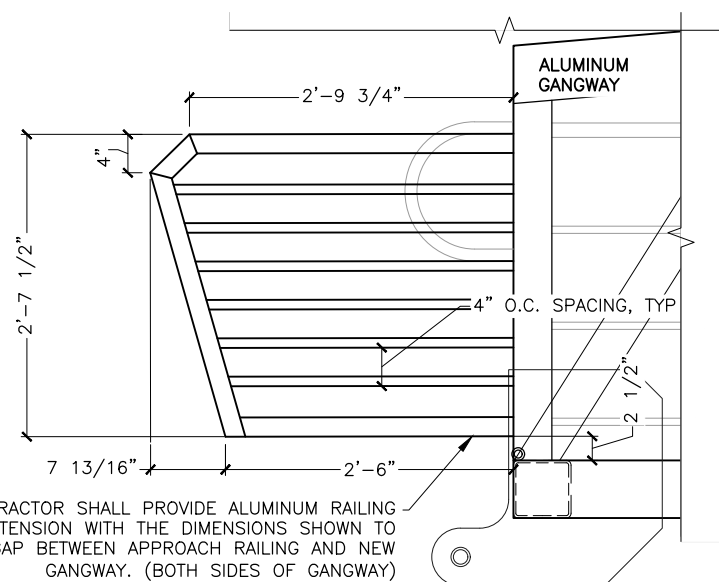


GANGWAY TRANSITION PL ASSEMBLY PLAN (SEAWARD END)

*CONTRACTOR SHALL VERIFY DIMENSIONS W/ FINAL GANGWAY DIMENSIONS TO ENSURE PROPER FIT-UP.

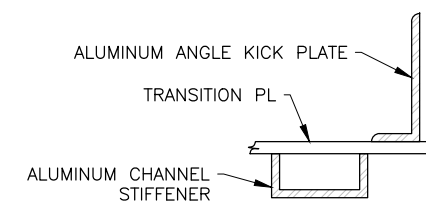


3 SEAWARD TRANSITION PL ASSEMBLY SECTION (SEAWARD END)
501/503



CONTRACTOR SHALL PROVIDE ALUMINUM RAILING EXTENSION WITH THE DIMENSIONS SHOWN TO SPAN GAP BETWEEN APPROACH RAILING AND NEW GANGWAY. (BOTH SIDES OF GANGWAY)

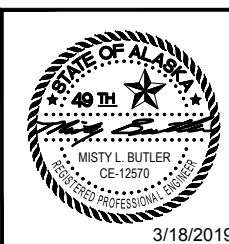
RAILING EXTENSION DETAIL ELEVATION



B TRANSITION KICK PLATE SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

FILE: Q:\us\68128\WF\PLANSET\503 - 80f: GANGWAY DETAILS.dwg DATE: 3/18/2019 14:11 LAYOUT: 503 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

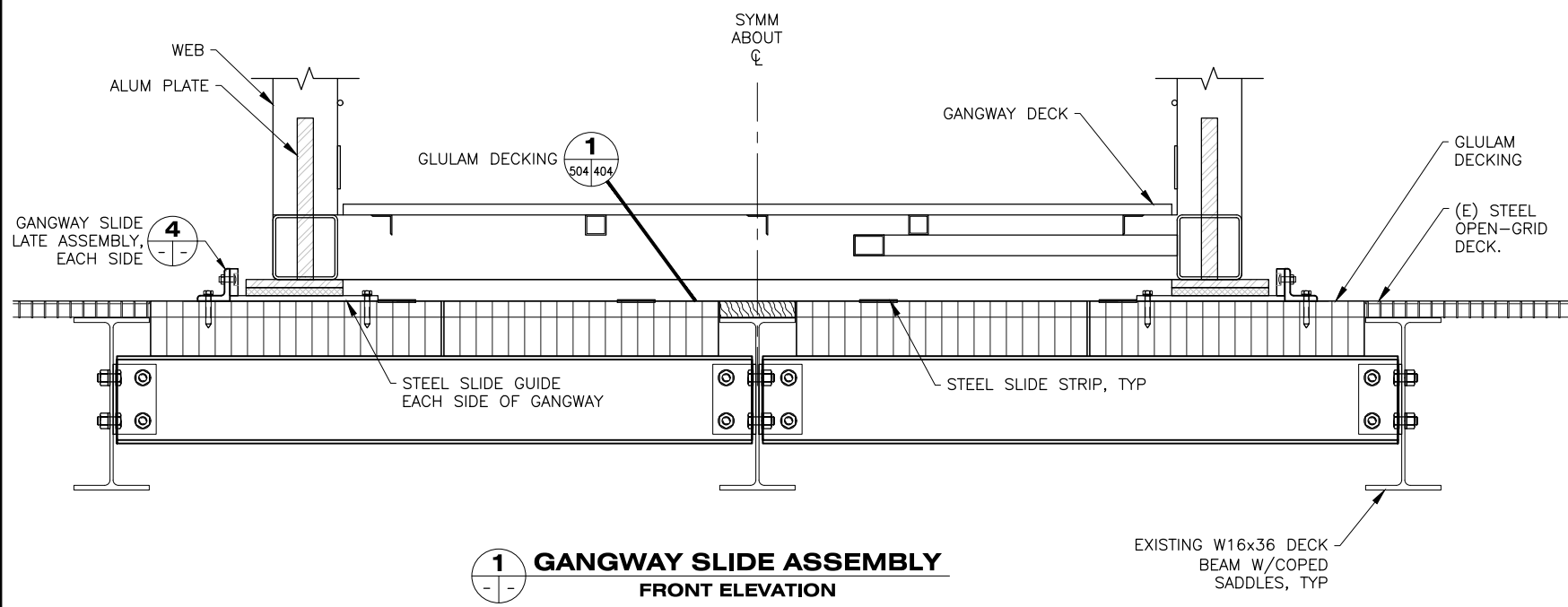


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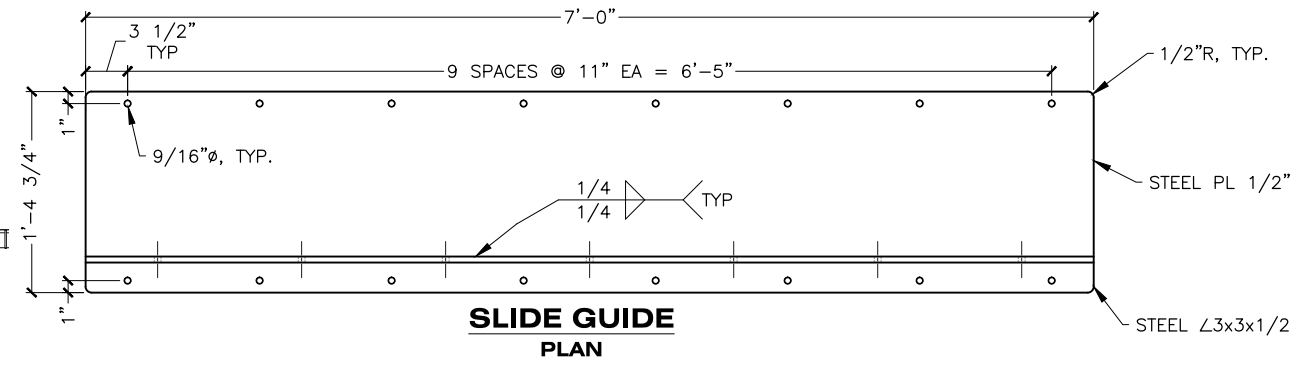
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

80' GANGWAY DETAILS
HH 10/01/2024

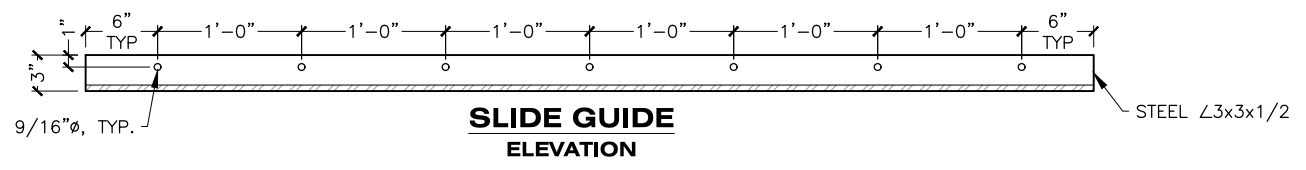
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			ALASKA	Z681280000/0003182	2019	504	145



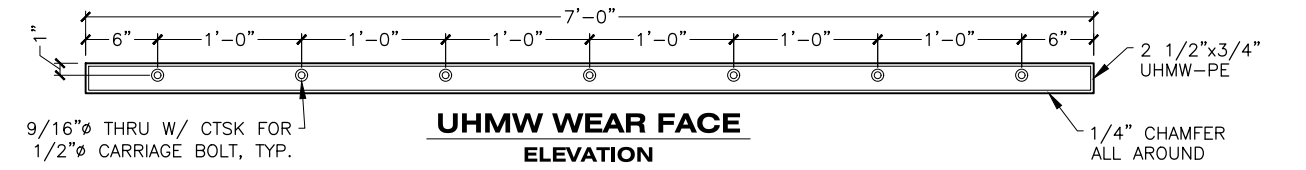
1 GANGWAY SLIDE ASSEMBLY FRONT ELEVATION



SLIDE GUIDE PLAN

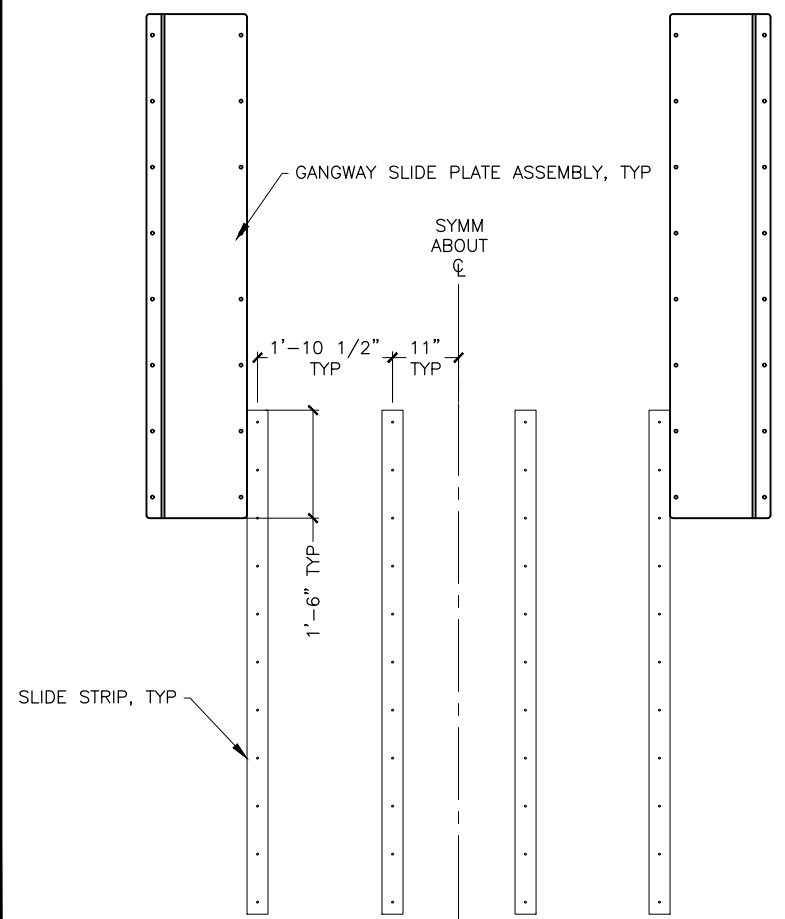


SLIDE GUIDE ELEVATION

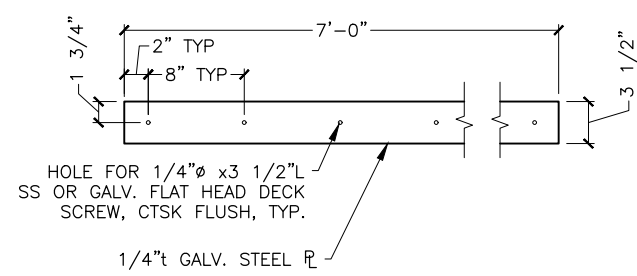


UHMW WEAR FACE ELEVATION

5 SLIDE ASSEMBLY DETAILS

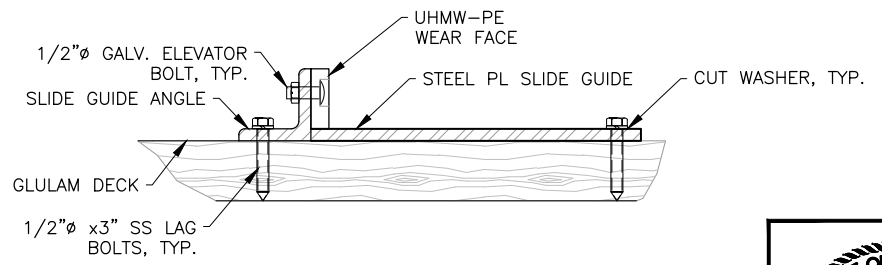


2 GANGWAY SLIDE ASSEMBLY PLAN



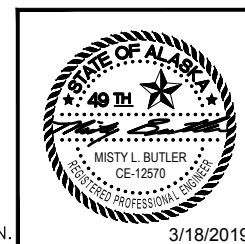
3 GANGWAY SLIDE STRIP PLAN

NOTE: STEEL SLIDE PLATE SHALL BE CTSK INTO TIMBER DECKING 1/8".



4 GANGWAY SLIDE PLATE ASSEMBLY SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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GUSTAVUS FERRY TERMINAL IMPROVEMENTS

80' GANGWAY SLIDE ASSEMBLY DETAILS

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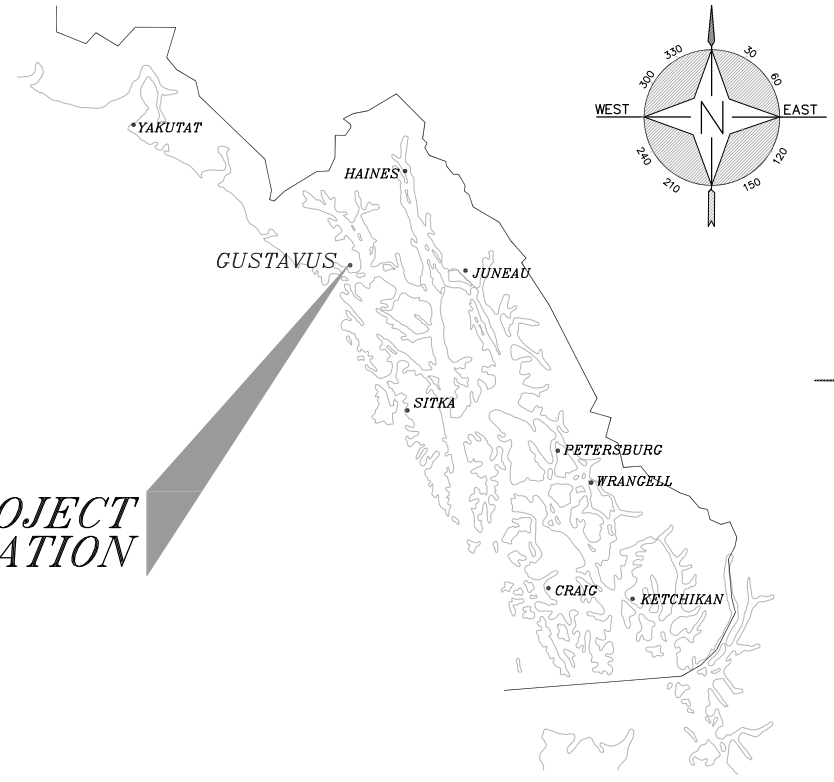
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	701	145

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHCOAST REGION



PROJECT LOCATION



GUSTAVUS, ALASKA

LIST OF ABBREVIATIONS

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
(D)	DEMOLISH	LSO	LIMIT SWITCH OPEN
(E)	EXISTING	mA	MILLIAMPER (4-20mA SIGNAL)
(N)	NEW	MCB	MAIN CIRCUIT BREAKER
(R)	REMOVE AND RELOCATE	MCC	MOTOR CONTROL CENTER
(S)	SALVAGE	MCP	MAIN CONTROL PANEL
A OR AMP	AMPERE	MLO	MAIN LUGS ONLY
AC	ALTERNATING CURRENT	N	NEUTRAL OR NORTH
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AI	ANALOG INPUT	NEC	NATIONAL ELECTRICAL CODE
AIC	AMPS INTERRUPTING CAPACITY	NEMA	NATIONAL ELEC. MANUFAC. ASSOC.
AIP	ABANDON IN PLACE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
AO	ANALOG OUTPUT	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NO	NORMALLY OPEN
BLDG	BUILDING	NS	NON-SWITCHED
C	CONDUIT	OL	OVERLOAD (RELAY)
CB	CIRCUIT BREAKER	PE	PHOTOELECTRIC (SWITCH)
CKT	CIRCUIT	PF	POWER FACTOR
CTRL	CONTROL	PH OR Φ	PHASE
CU	COPPER (CONDUCTOR)	PLC	PROGRAMMABLE LOGIC CONTROLLER
DC	DIRECT CURRENT	PNL	PANEL(BOARD)
DISC.	DISCONNECT (SWITCH)	POE	POWER OVER ETHERNET
EL	ELEVATION	PRI	PRIMARY
EMT	ELECTRIC METALLIC TUBE	PVC	POLYVINYL CHLORIDE (CONDUIT)
F OR FU	FUSE	R OR CR	RELAY OR CONTROL RELAY
FBO	FURNISHED BY OWNER	RTU	REMOTE TERMINAL UNIT
FLA	FULL LOAD AMPS	S	SWITCH
FLEX	TYPE LFNC-A FLEXIBLE CONDUIT	SEC	SECONDARY
GEN	GENERATOR	SS	STAINLESS STEEL
GFCI	GROUND FAULT CKT INTERRUPTER	TC	THERMOSTAT
GND OR G	GROUND	TJB	TERMINAL JUNCTION BOX
GRC	GALVANIZED RIGID CONDUIT	TSC	TORQUE SWITCH CLOSED
H-O-A	HAND-OFF-AUTO	TSO	TORQUE SWITCH OPEN
HP	HORSE POWER	TSP	TWISTED SHIELDED PAIR
HPU	HYDRAULIC POWER UNIT	TYP	TYPICAL
HS	HAND SWITCH	UG	UNDERGROUND
HT	HEAT TRACE	UL	UNDERWRITERS LABORATORIES
J-BOX	JUNCTION BOX	UPS	UNINTERRUPTIBLE POWER SUPPLY
KVA	KILO VOLTAMPS	V	VOLTS
KW	KILO WATTS	VFD	VARIABLE FREQUENCY DRIVE
LCP	LOCAL CONTROL PANEL	WP	WEATHERPROOF
LED	LIGHT EMITTING DIODE (LAMP)	XFMR	TRANSFORMER
LSC	LIMIT SWITCH CLOSED	24COM/DCCOM	24VDC SIGNAL COMMON

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
701	Electrical Legend and Sheet Index
702	Electrical Demolition Site Plan
703	Electrical Staging Area Demolition Plan
704	Electrical Approach and Transfer Bridge Demolition Plan
705	Electrical Salvage Item Details
706	Electrical Site Plan
707	Electrical Staging Area Conduit Plan
708	Electrical Approach Addition Conduit Plan
709	Electrical Transfer Bridge Conduit Plan
710	Electrical Electrical Details
711	Electrical Lift Tower Access Gangway Elevations
712	Electrical Lift Tower Shelter Elevations and Entrance Plan
713	Electrical Green Tower Shelter Plan
714	Electrical Red Tower Shelter Plan
715	Electrical Single Line Power Diagram - Demolition
716	Electrical Single Line Power Diagram
717	Electrical Panel Schedules
718	Electrical Lighting Schematic
719	Electrical Camera & Communications Schematic Diagram
720	Electrical Controls Riser Diagram
721	Electrical Controls Hoist Controls UPS Enclosure Layout
722	Electrical Controls Transfer Bridge Position Sensor Details
723	Electrical Controls Apron Controls Control Panel Layout
724	Electrical Controls Apron Controls Control Panel Schematic
725	Hydraulic Controls Apron Controls Plan and Elevation
726	Hydraulic Controls Apron Controls HPU Enclosure Layout
727	Hydraulic Controls Apron and Safety Catcher Material List
728	Hydraulic Controls Apron and Safety Catcher Schematic

LIST OF ELECTRICAL EQUIPMENT AND WIRING SYMBOLS

PUSH BUTTON (MUSHROOM HEAD)

PUSH BUTTON

FUSE, FIXED OR TIP-OUT HOLDER

RESISTOR OR HEATING ELEMENT

SWITCH, TOGGLE OR AS NOTED

SWITCH, FLOW

SWITCH, FLOAT

SWITCH, TEMPERATURE

SWITCH, LIMIT

SWITCH, PRESSURE

RELAY CONTACT

CIRCUIT NUMBER (MARKED ON WIRE)

WIRE COLOR CODE (AS NOTED)

TERMINAL WITH CIRCUIT NUMBER

FIELD TERMINAL SHOWN W/FIELD WIRING

RELAY COIL

PILOT LIGHT

PILOT LIGHT PUSH-TO-TEST

GROUND CONNECTION

CONTROL TRANSFORMER

PLC INPUT

PLC OUTPUT

TIME DELAY RELAY CONTACTS

NOTC CONTACT ACTION RETARDED AFTER COIL IS ENERGIZED

NOTO CONTACT ACTION RETARDED AFTER COIL IS DEENERGIZED

NOTES: SWITCH AND RELAY CONTACTS ARE SHOWN IN THE UNPOWERED STATE. PROGRAMMABLE RELAYS MAY HAVE MORE THAN ONE FUNCTION. SELECTOR SWITCHES MAY HAVE MORE THAN TWO CONTACT BLOCKS. CIRCUIT BREAKERS CAN ALSO BE SINGLE POLE - SEE DESCRIPTIONS THIS SHEET.

GENERATOR

IP CAMERA

THERMOSTAT

PHOTOELECTRIC SWITCH

LIGHTING CONTROLLER

HAND-OFF-AUTO CONTROL SWITCH

HAND-OFF CONTROL SWITCH

MOTOR CONTACTOR

JUNCTION BOX

SPECIAL RECEPTACLE

DUPLEX RECEPTACLE

DISCONNECT SWITCH

DISCONNECT SWITCH-FUSED

SWITCHED MOTOR CONTROLLER

MOTOR

OVERLOAD RELAY

REVERSING CONTACTOR

CONTACTOR

MOTOR CONTROLLER

VFD MOTOR CONTROLLER

DRY-TYPE TRANSFORMER

CIRCUIT BREAKER

PANEL BOARD

SIGNAL CABINET

FLUORESCENT LUMINAIRE

EXTERIOR LUMINAIRE

POLE-MOUNT LUMINAIRE

PANELBD. CKT. NO. WIRES AND CIRCUIT NUMBER

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BOREAL CONTROLS INC.
3100 CHANNEL DRIVE,
SUITE 101
JUNEAU, ALASKA 99801
907-586-8367
CERTIFICATE OF
AUTHORIZATION NUMBER
271837

Gregory S. Smith
EE 10046

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

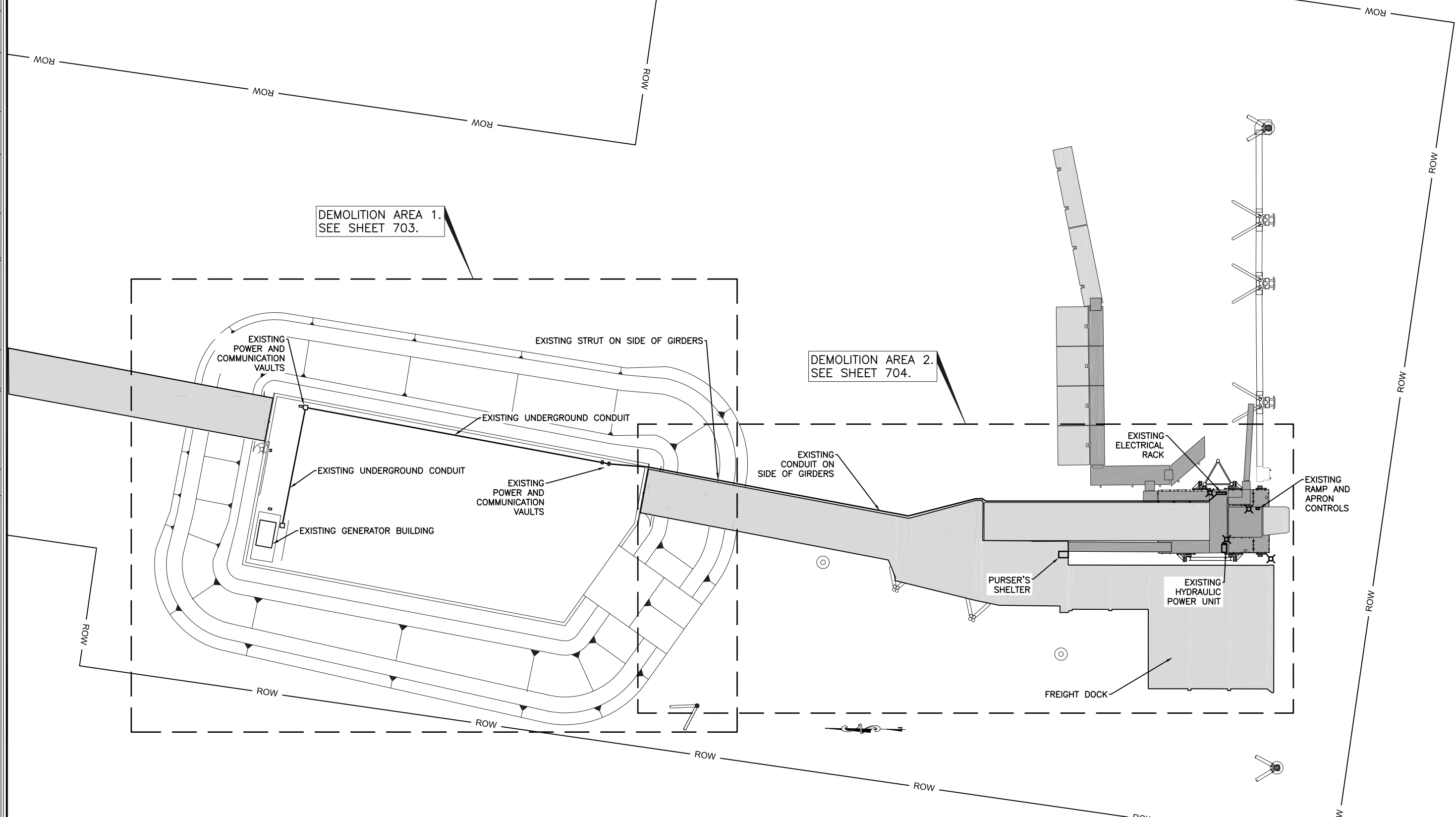
**ELECTRICAL
LEGEND AND SHEET INDEX**

HH 10/01/2024

2/11/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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DEMOLITION AREA 1.
SEE SHEET 703.

DEMOLITION AREA 2.
SEE SHEET 704.

DEMOLITION SITE PLAN



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 271837

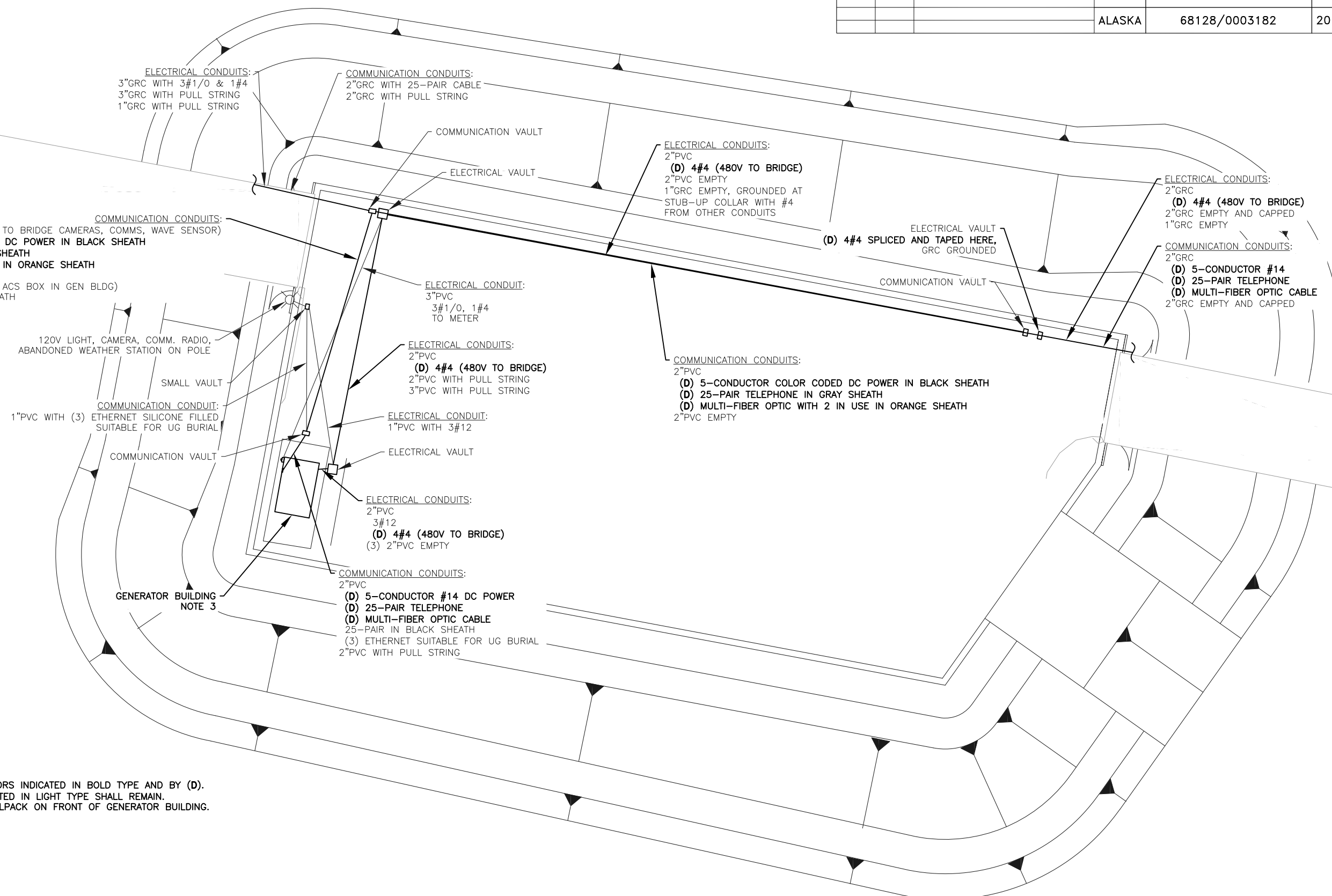


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS
 ELECTRICAL
 DEMOLITION SITE PLAN

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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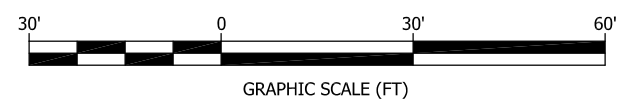
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 DESIGNED: BUD/TCO
 CHECKED: GSS
 DRAFTED: BUD/TCO



DEMOLITION NOTES:

1. DEMOLISH CABLE/CONDUCTORS INDICATED IN BOLD TYPE AND BY (D).
2. CABLE/CONDUCTORS INDICATED IN LIGHT TYPE SHALL REMAIN.
3. DEMOLISH DOWN LIGHT WALLPACK ON FRONT OF GENERATOR BUILDING.

STAGING AREA DEMOLITION PLAN



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

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 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
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 271837



2/11/2019

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ELECTRICAL STAGING AREA DEMOLITION PLAN

HH 10/01/2024

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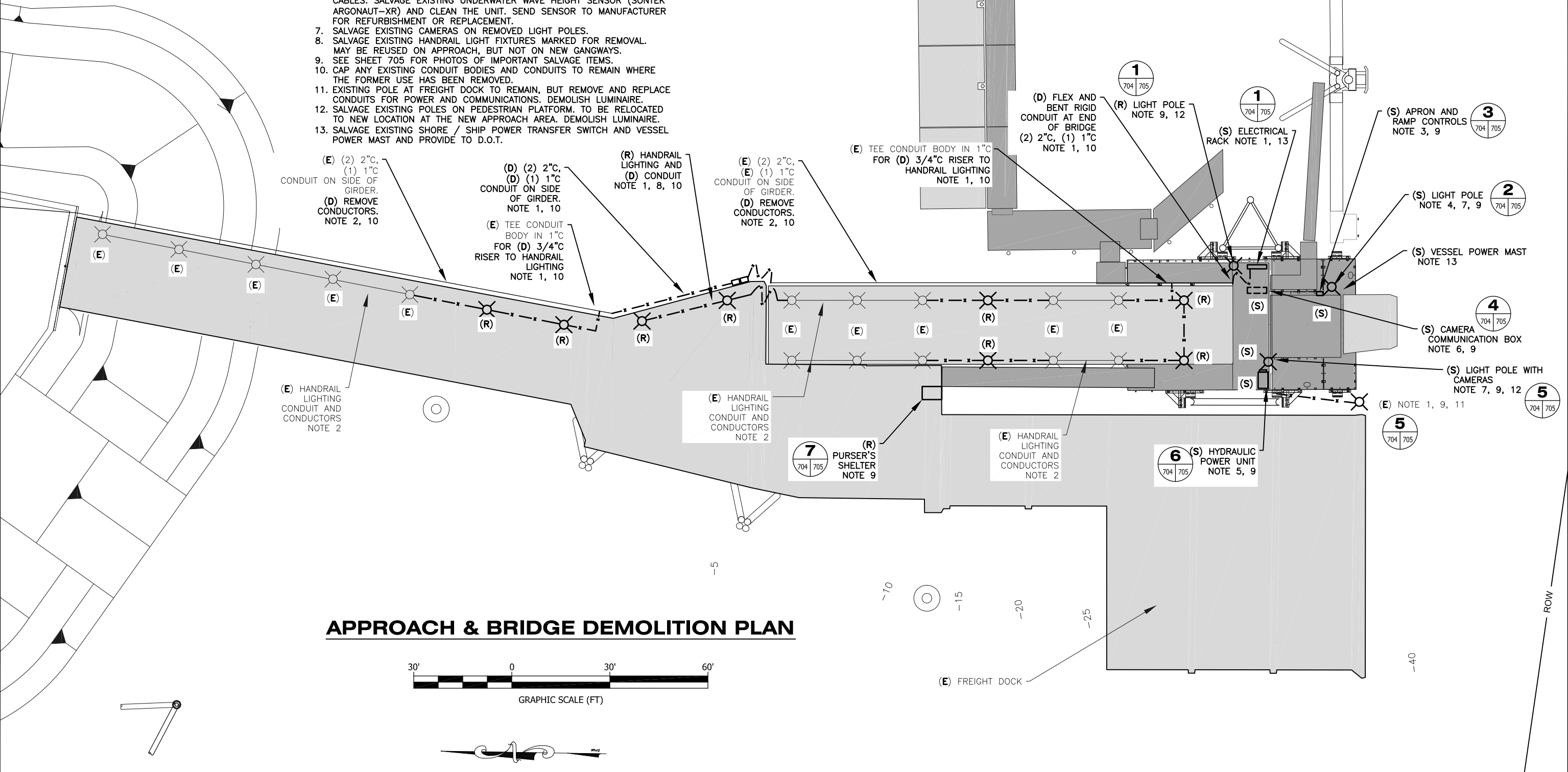
DEMOLITION NOTES:

- DEMOLISH CONDUIT/CONDUCTORS INDICATED IN BOLD TYPE AND BY **---X---X---**.
- CONDUIT INDICATED IN LIGHT TYPE SHALL REMAIN.
- SALVAGE EXISTING APRON CONTROLS AND PROVIDE TO D.O.T.
- SALVAGE EXISTING SHORT LIGHT POLE AND LUMINAIRE ON EAST HYDRAULIC TOWER AND PROVIDE TO D.O.T.
- SALVAGE EXISTING HYDRAULIC POWER UNIT AND PROVIDE TO D.O.T.
- SALVAGE EXISTING COMMUNICATION/CAMERA BOX - LEAVE ENDS OF COLOR-CODED CABLES INTACT ON FIELD TERMINATIONS WHEN CUTTING CABLES. SALVAGE EXISTING UNDERWATER WAVE HEIGHT SENSOR (SONTEK ARGONAUT-XR) AND CLEAN THE UNIT. SEND SENSOR TO MANUFACTURER FOR REFINISHMENT OR REPLACEMENT.
- SALVAGE EXISTING CAMERAS ON REMOVED LIGHT POLES.
- SALVAGE EXISTING HANDRAIL LIGHT FIXTURES MARKED FOR REMOVAL. MAY BE REUSED ON APPROACH, BUT NOT ON NEW GANGWAYS.
- SEE SHEET 705 FOR PHOTOS OF IMPORTANT SALVAGE ITEMS.
- CAP ANY EXISTING CONDUIT BODIES AND CONDUITS TO REMAIN WHERE THE FORMER USE HAS BEEN REMOVED.
- EXISTING POLE AT FREIGHT DOCK TO REMAIN, BUT REMOVE AND REPLACE CONDUITS FOR POWER AND COMMUNICATIONS. DEMOLISH LUMINAIRE.
- SALVAGE EXISTING POLES ON PEDESTRIAN PLATFORM. TO BE RELOCATED TO NEW LOCATION AT THE NEW APPROACH AREA. DEMOLISH LUMINAIRE.
- SALVAGE EXISTING SHORE / SHIP POWER TRANSFER SWITCH AND VESSEL POWER MAST AND PROVIDE TO D.O.T.

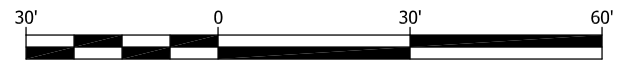
DEMOLITION CODES:

- (D) DEMOLISH
- (R) REMOVE AND RELOCATE
- (S) SALVAGE
- (E) EXISTING TO REMAIN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	704	145



APPROACH & BRIDGE DEMOLITION PLAN



PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
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 271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

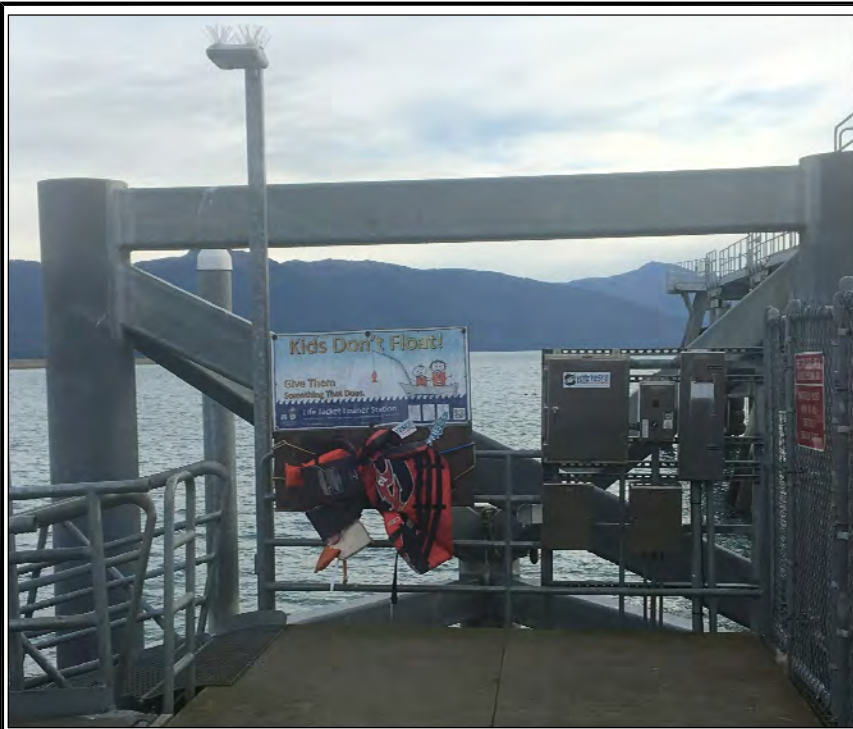
**ELECTRICAL
 APPROACH AND TRANSFER
 BRIDGE DEMOLITION PLAN**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

2/11/2019
 HH 10/01/2024

FILE: H:\Open\Main\217 DOT_AMIS\217-12 AMIS Gustavus Bridge\Drawings\10 - Master\2 & H\217\705 - ELECTRICAL SALVAGE\ITEM DETAILS.dwg
 DATE: 2/8/2019 8:57
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 DESIGNED: BUD/TCO
 CHECKED: GSS
 DRAFTED: BUD/TCO

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	705	145



1 LIGHT POLE & SHIP POWER GEAR SALVAGE
704 705



2 LIGHT POLE & CAMERAS SALVAGE
704 705



3 APRON & RAMP CONTROLS SALVAGE
704 705



4 CAMERA COMMUNICATIONS GEAR SALVAGE
704 705



5 LIGHT POLES & CAMERAS SALVAGE
704 705



6 HYDRAULIC POWER UNIT & CONTROLS SALVAGE
704 705



7 PURSER'S SHELTER & LOAD CENTER SALVAGE
704 705



PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837



2/11/2019

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

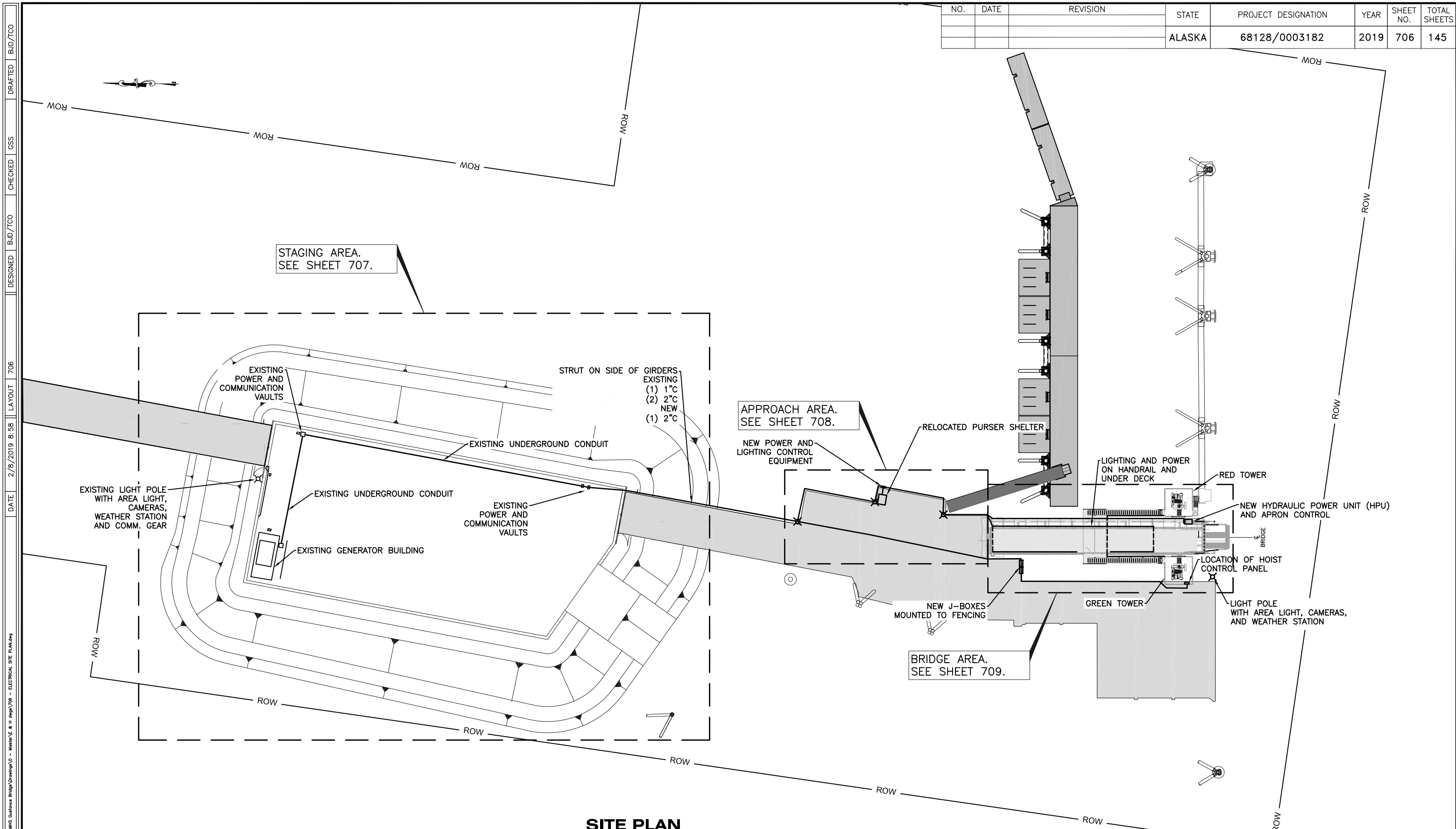
GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

ELECTRICAL
 SALVAGE ITEM DETAILS

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	706	145

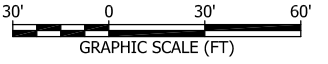


STAGING AREA.
SEE SHEET 707.

APPROACH AREA.
SEE SHEET 708.

BRIDGE AREA.
SEE SHEET 709.

SITE PLAN



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
BOREAL CONTROLS INC.
3100 CHANNEL DRIVE,
SUITE 101
JUNEAU, ALASKA 99801
907-586-8367
CERTIFICATE OF
AUTHORIZATION NUMBER
271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

**ELECTRICAL
SITE PLAN**

HH 10/01/2024

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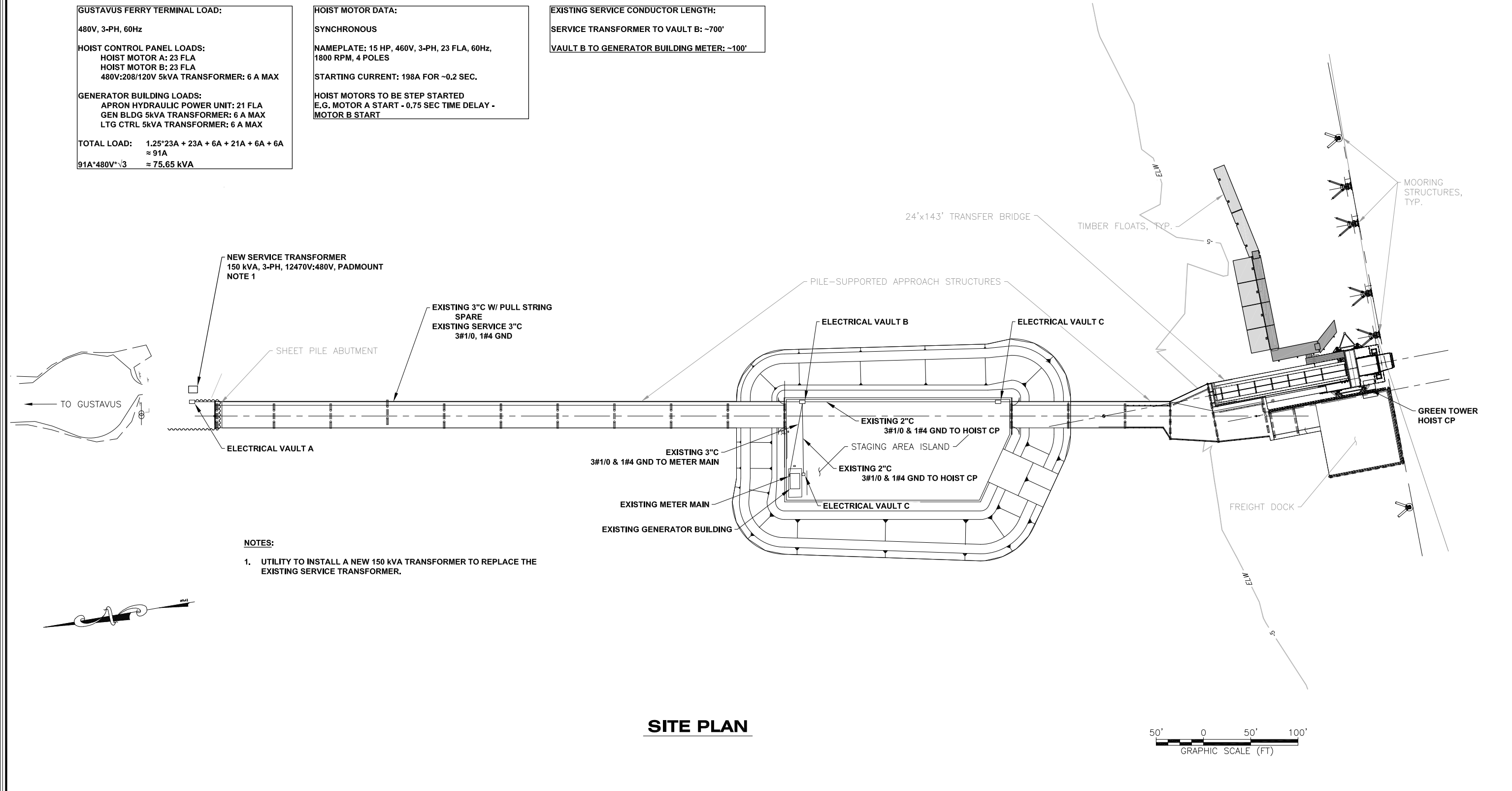
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/3/20	CHANGE ORDER #7	ALASKA	68128/0003182	2020	706A	146
2	11/30/20	TRANSFORMER SIZE CORRECTION					

FILE: I:\Share\Drawings\Projects\11\11-2\AMHS\Gustavus\Bridges\Drawings\10 - Main\10 - Electrical\Drawings\706a - Electrical Existing Site Plan - REVISED.dwg
 DATE: 12/1/2020 14:27 LAYOUT: 706A
 DESIGNED: GSS
 CHECKED: GSS
 DRAFTED: BJD

GUSTAVUS FERRY TERMINAL LOAD:
 480V, 3-PH, 60Hz
HOIST CONTROL PANEL LOADS:
 HOIST MOTOR A: 23 FLA
 HOIST MOTOR B: 23 FLA
 480V:208/120V 5kVA TRANSFORMER: 6 A MAX
GENERATOR BUILDING LOADS:
 APRON HYDRAULIC POWER UNIT: 21 FLA
 GEN BLDG 5kVA TRANSFORMER: 6 A MAX
 LTG CTRL 5kVA TRANSFORMER: 6 A MAX
TOTAL LOAD: $1.25 \times 23A + 23A + 6A + 21A + 6A + 6A \approx 91A$
 $91A \times 480V \times \sqrt{3} \approx 75.65 \text{ kVA}$


HOIST MOTOR DATA:
 SYNCHRONOUS
 NAMEPLATE: 15 HP, 460V, 3-PH, 23 FLA, 60Hz, 1800 RPM, 4 POLES
 STARTING CURRENT: 198A FOR ~0.2 SEC.
 HOIST MOTORS TO BE STEP STARTED
 E.G. MOTOR A START - 0.75 SEC TIME DELAY - MOTOR B START

EXISTING SERVICE CONDUCTOR LENGTH:
 SERVICE TRANSFORMER TO VAULT B: ~700'
 VAULT B TO GENERATOR BUILDING METER: ~100'



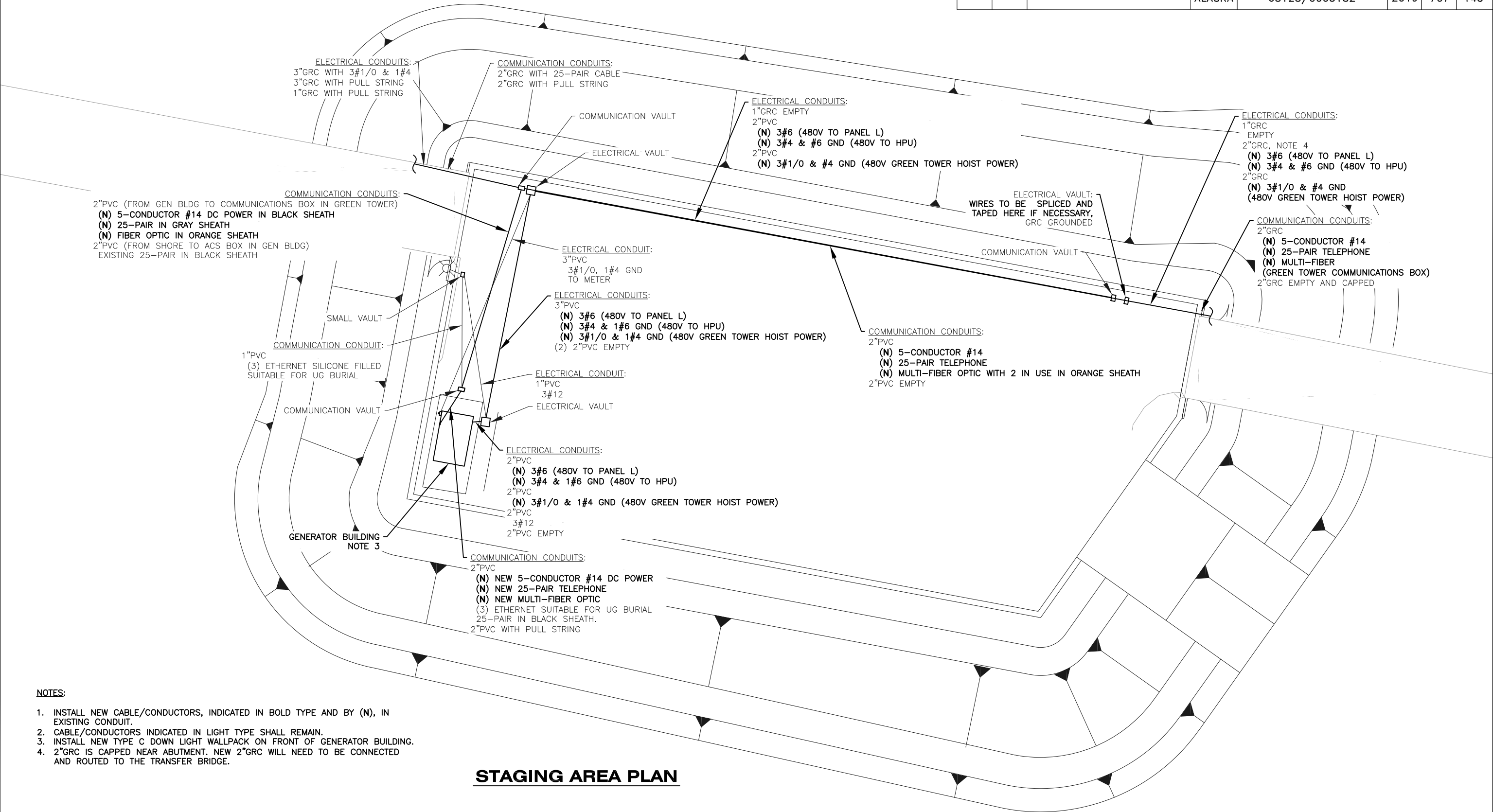
- NOTES:**
- UTILITY TO INSTALL A NEW 150 kVA TRANSFORMER TO REPLACE THE EXISTING SERVICE TRANSFORMER.

SITE PLAN

PLANS DEVELOPED BY: BOREAL CONTROLS INC. 3100 CHANNEL DRIVE, SUITE 101 JUNEAU, ALASKA 99801 907-586-8367 CERTIFICATE OF AUTHORIZATION NUMBER 271837	 Gregory S. Smith EE 10046 REGISTERED PROFESSIONAL ENGINEER 11/30/2020	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GUSTAVUS FERRY TERMINAL IMPROVEMENTS SITE PLAN HH 10/01/2024
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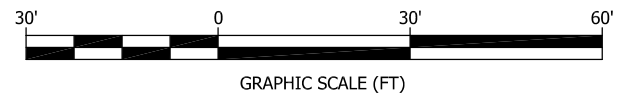
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	707	145

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 CHECKED: GSS
 DESIGNED: BJD/TCO
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 LAYOUT: 707



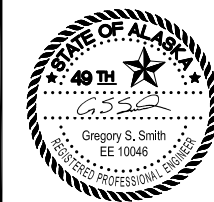
- NOTES:**
1. INSTALL NEW CABLE/CONDUCTORS, INDICATED IN BOLD TYPE AND BY (N), IN EXISTING CONDUIT.
 2. CABLE/CONDUCTORS INDICATED IN LIGHT TYPE SHALL REMAIN.
 3. INSTALL NEW TYPE C DOWN LIGHT WALLPACK ON FRONT OF GENERATOR BUILDING.
 4. 2"GRC IS CAPPED NEAR ABUTMENT. NEW 2"GRC WILL NEED TO BE CONNECTED AND ROUTED TO THE TRANSFER BRIDGE.

STAGING AREA PLAN



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837



2/11/2019

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

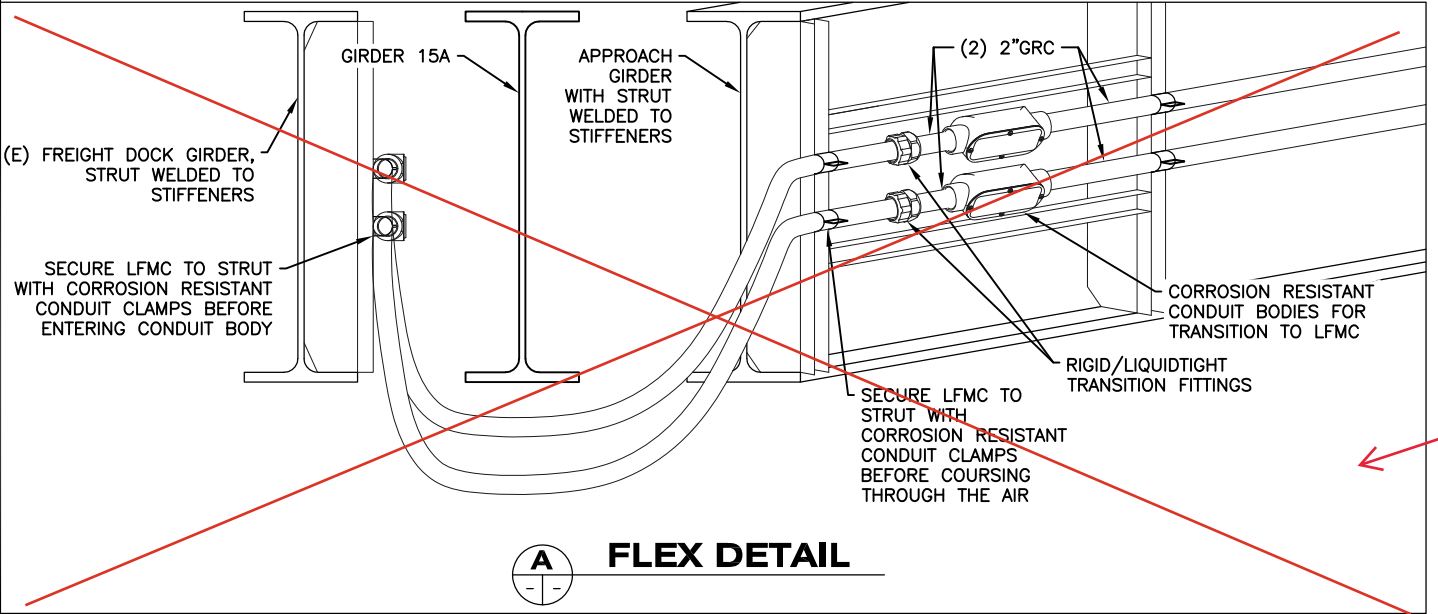
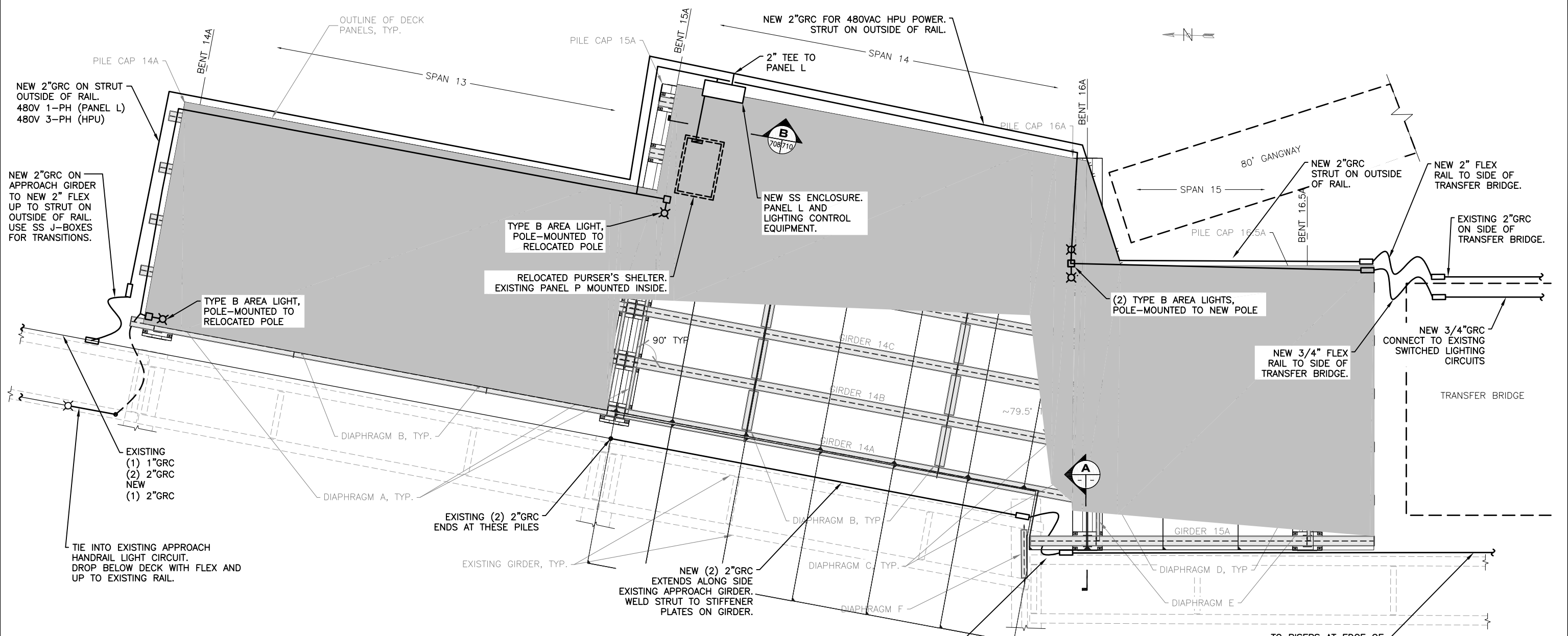
GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

**ELECTRICAL
 STAGING AREA CONDUIT PLAN**

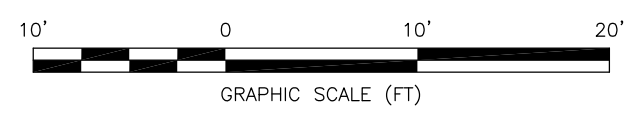
HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	708	145

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 DATE: 2/8/2019 9:01 AM
 LAYOUT: 708
 DESIGNED: BUD/TCO
 CHECKED: GSS
 DRAFTED: BUD/TCO



APPROACH CONDUIT PLAN



see next sheet for updated Detail A per CO #3

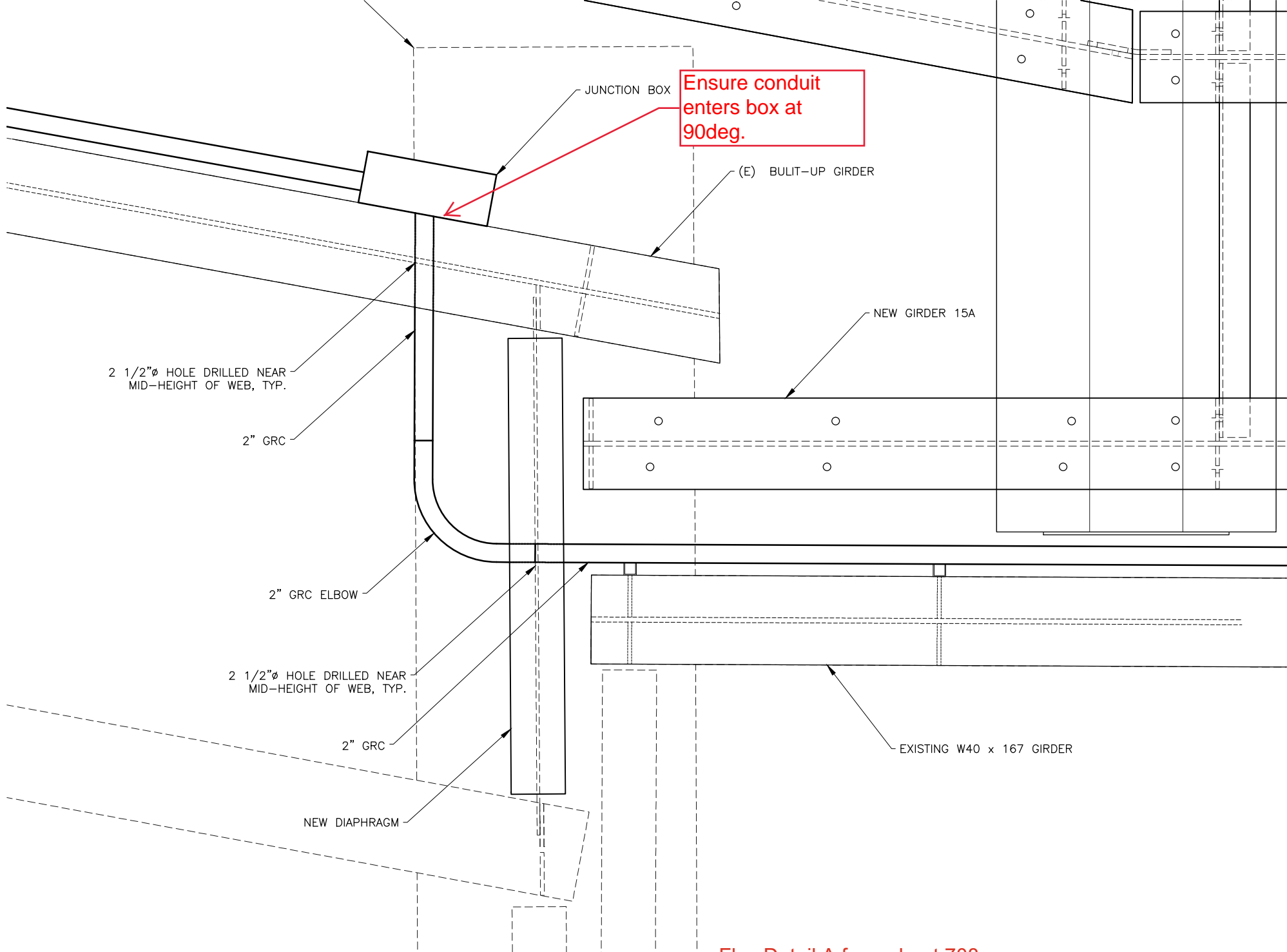
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS
 ELECTRICAL
 APPROACH ADDITION
 CONDUIT PLAN

HH 10/01/2024

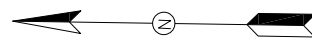


Flex Detail A from sheet 708

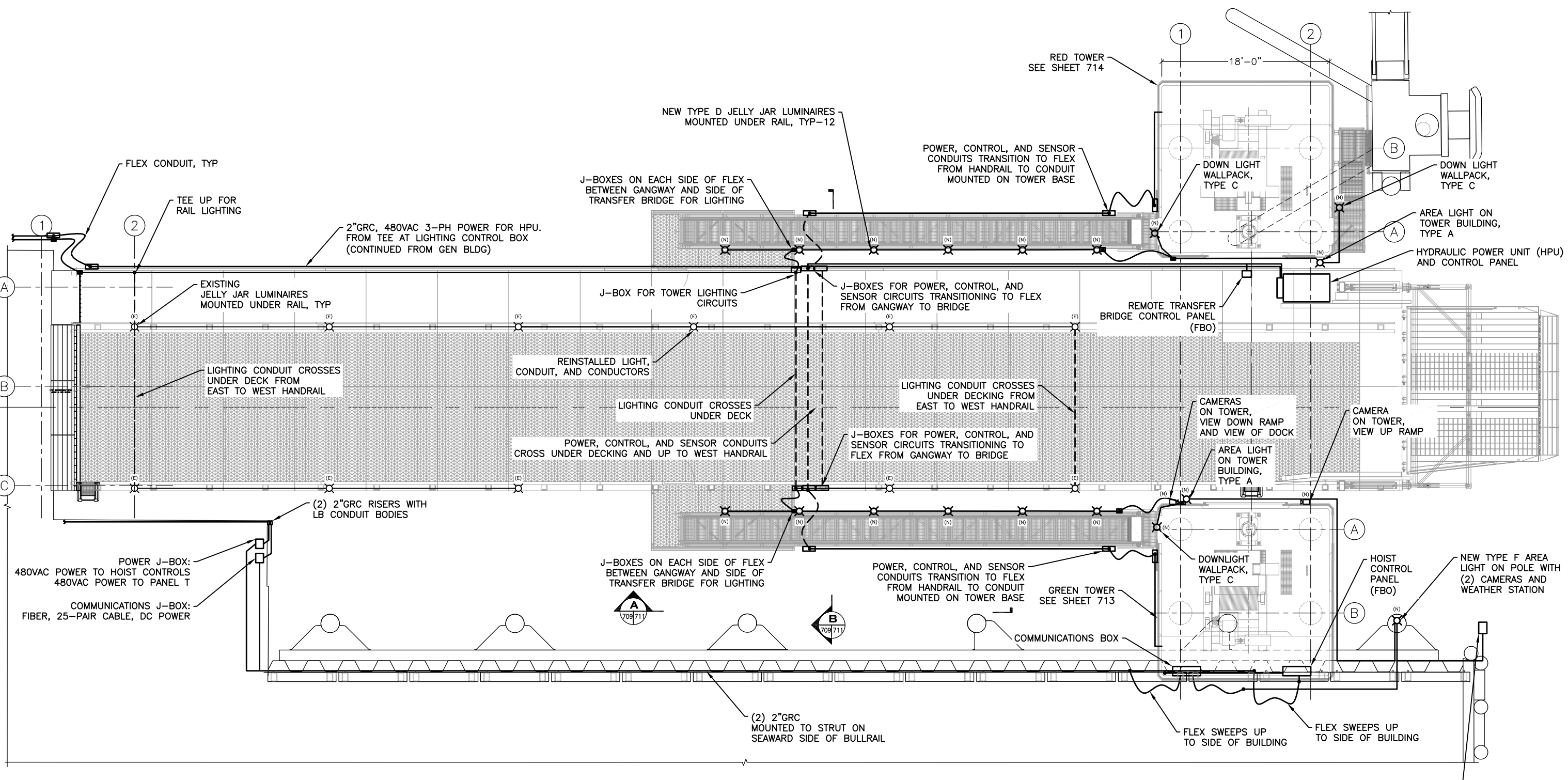
ELECTRICAL CONDUIT ROUTING SUGGESTION

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	709	145



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 DESIGNED: BUD/TCO
 CHECKED: GSS
 DRAFTED: BUD/TCO



**CONDUIT PLAN
TRANSFER BRIDGE**

REDEPLOY SALVAGED WAVE HEIGHT SENSOR (SONTEK ARGONAUT-XR) NEAR CORNER OF FREIGHT DOCK. COORDINATE WITH MANUFACTURER (SONTEK) FOR MOUNTING, CABLING, CALIBRATION, AND PROGRAMMING.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

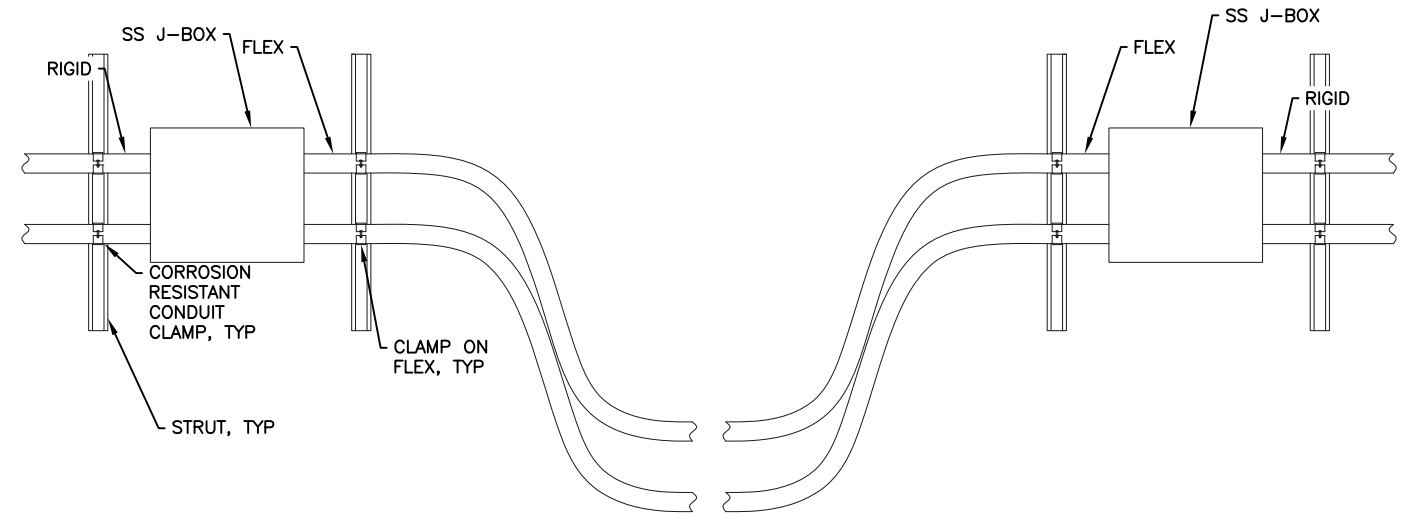
GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

ELECTRICAL
TRANSFER BRIDGE
GENERAL LAYOUT

HPT 10/01/2024

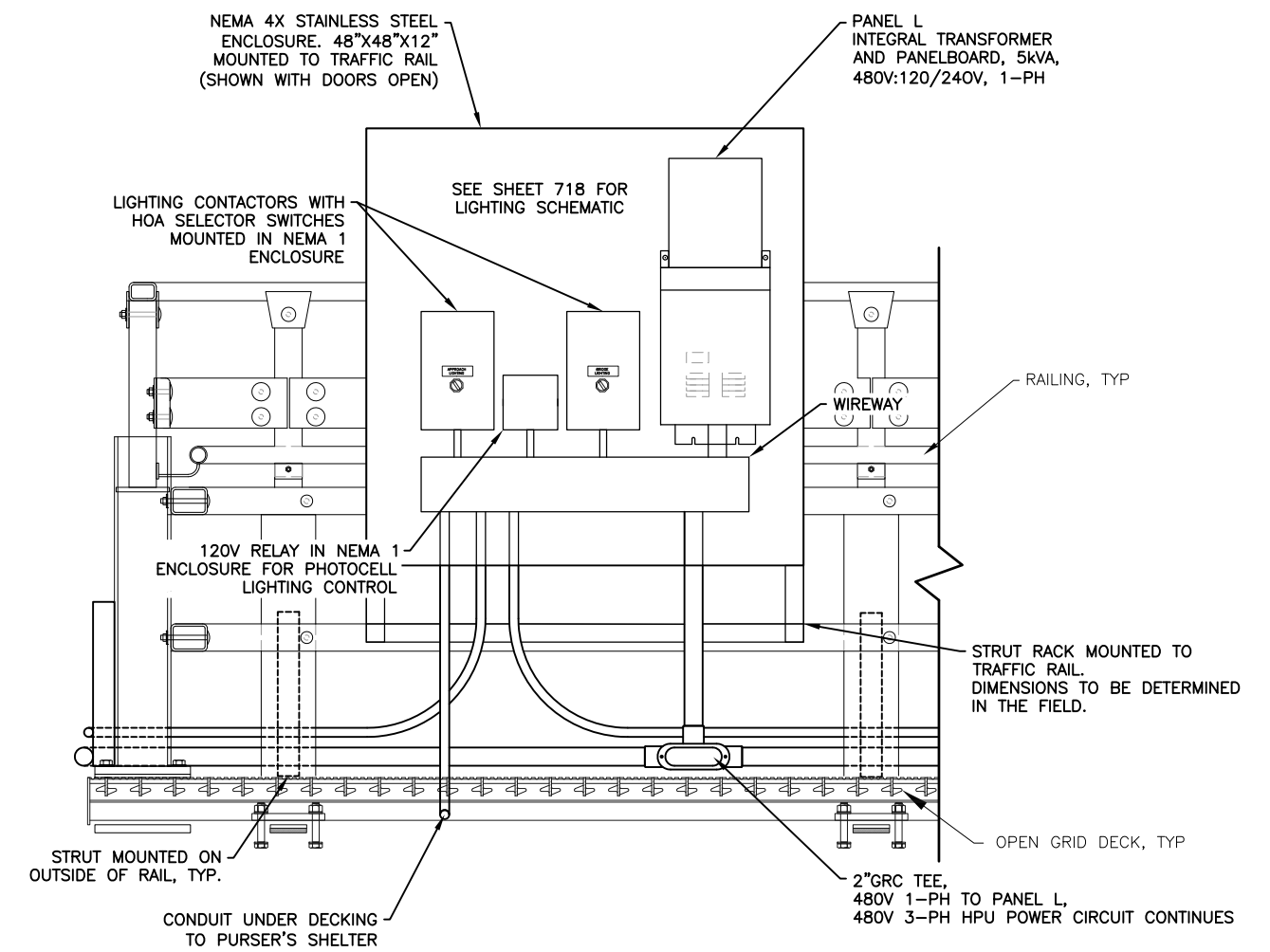
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	710	145

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 DESIGNED: BJD/TCO CHECKED: GSS DRAFTED: BJD/TCO



A TYPICAL FLEX SUPPORT

- NOTES:**
1. FLEX SHALL BE SUPPORTED BEFORE COURSING THROUGH THE AIR.
 2. FLEX SHALL NOT BE SUPPORTED BY ITS FITTING.
 3. USE CORROSION RESISTANT CLAMPS TO SECURE FLEX TO STRUT. MESH STRAIN RELIEF GRIPS SHALL NOT BE USED TO SUPPORT FLEX.
 4. THE TYPE OF FLEX USED SHALL BE LFNC-A. OTHER TYPES OF LIQUIDTIGHT FLEXIBLE CONDUIT MAY BE APPROVED FOR USE WHERE CONTINUOUS FLEXING IS NOT REQUIRED.



B LIGHTING CONTROL RACK ELEVATION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837

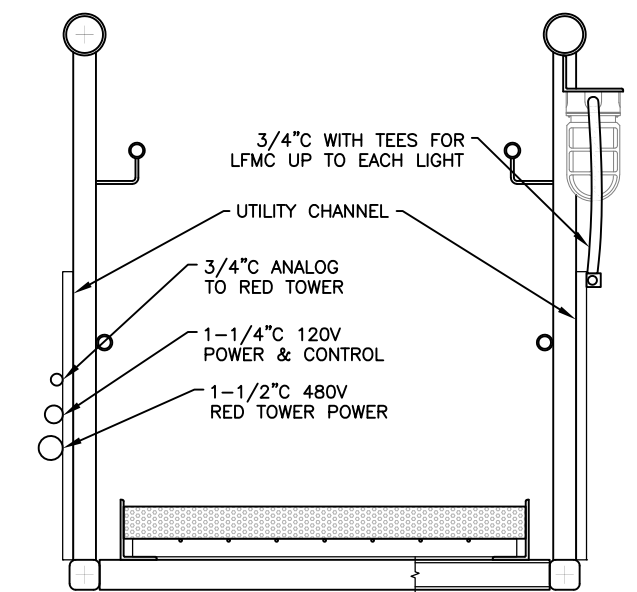
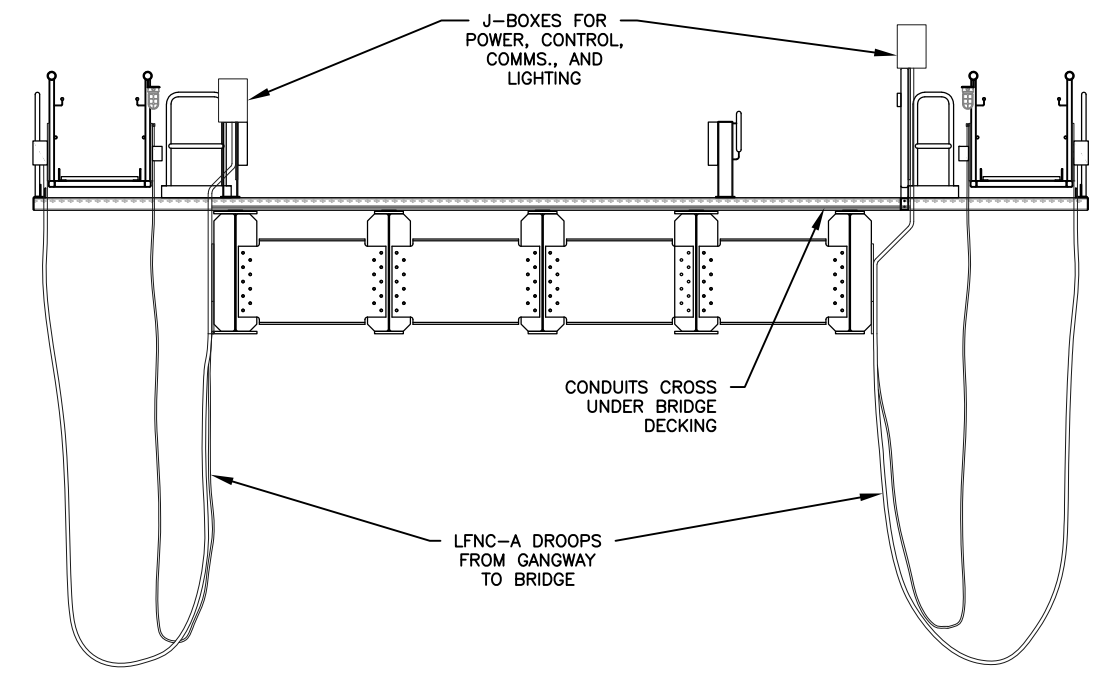
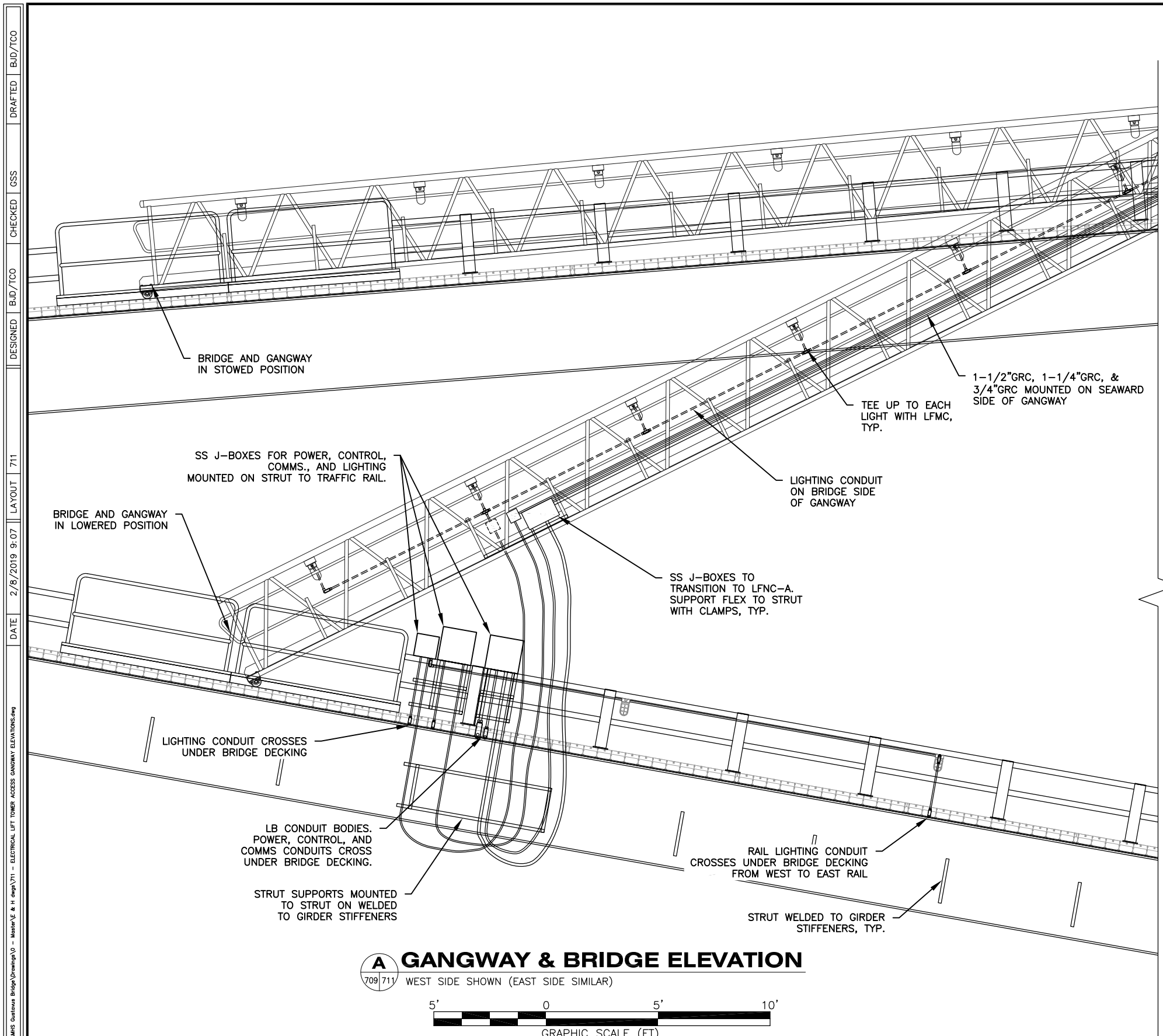


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

ELECTRICAL
 ELECTRICAL DETAILS
 HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	711	145



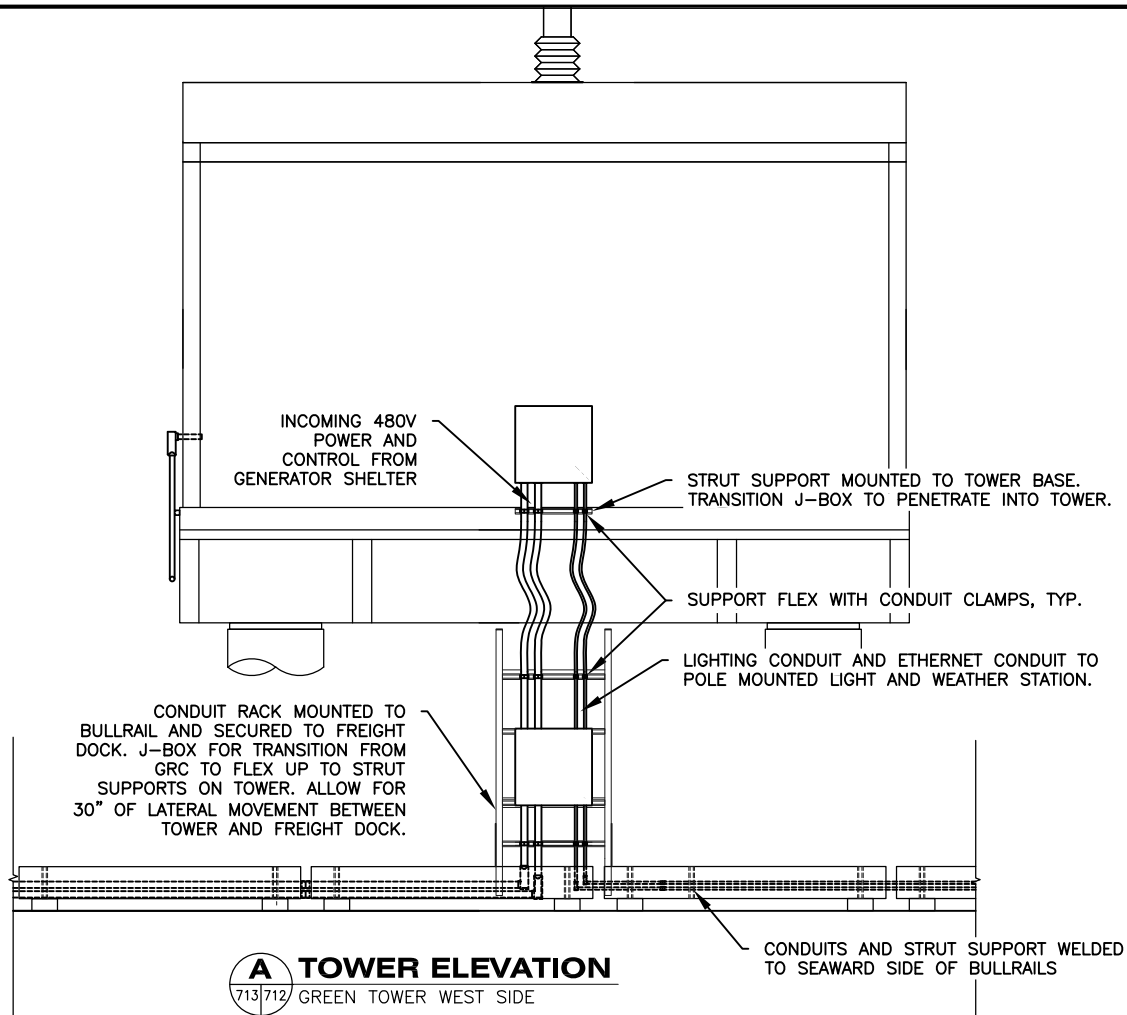
PLANS DEVELOPED BY: BOREAL CONTROLS INC. 3100 CHANNEL DRIVE, SUITE 101 JUNEAU, ALASKA 99801 907-586-8367 CERTIFICATE OF AUTHORIZATION NUMBER 271837	<p>Gregory S. Smith EE 10046 REGISTERED PROFESSIONAL ENGINEER</p> <p>2/11/2019</p>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GUSTAVUS FERRY TERMINAL IMPROVEMENTS ELECTRICAL TRANSFER BRIDGE AND ACCESS GANGWAY CONDUIT
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FILE: H:\Open\Main\2017 DOT\AMIS\Drawings\10 - Main\711 - ELECTRICAL LIFT TOWER ACCESS GANGWAY ELEVATIONS.dwg
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 CHECKED: GSS
 DRAFTED: BUD/TCO

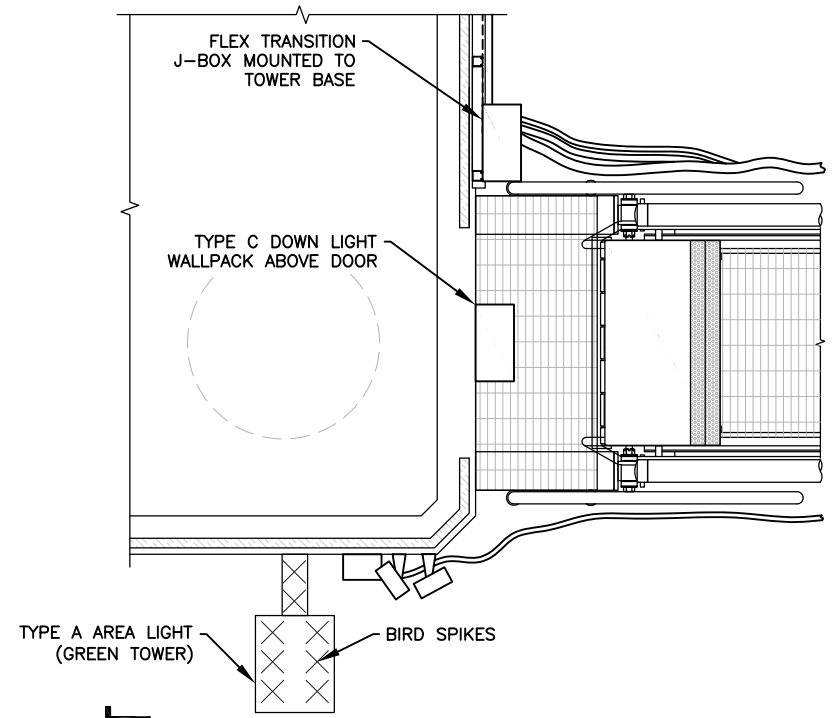
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

HP 10/01/2024

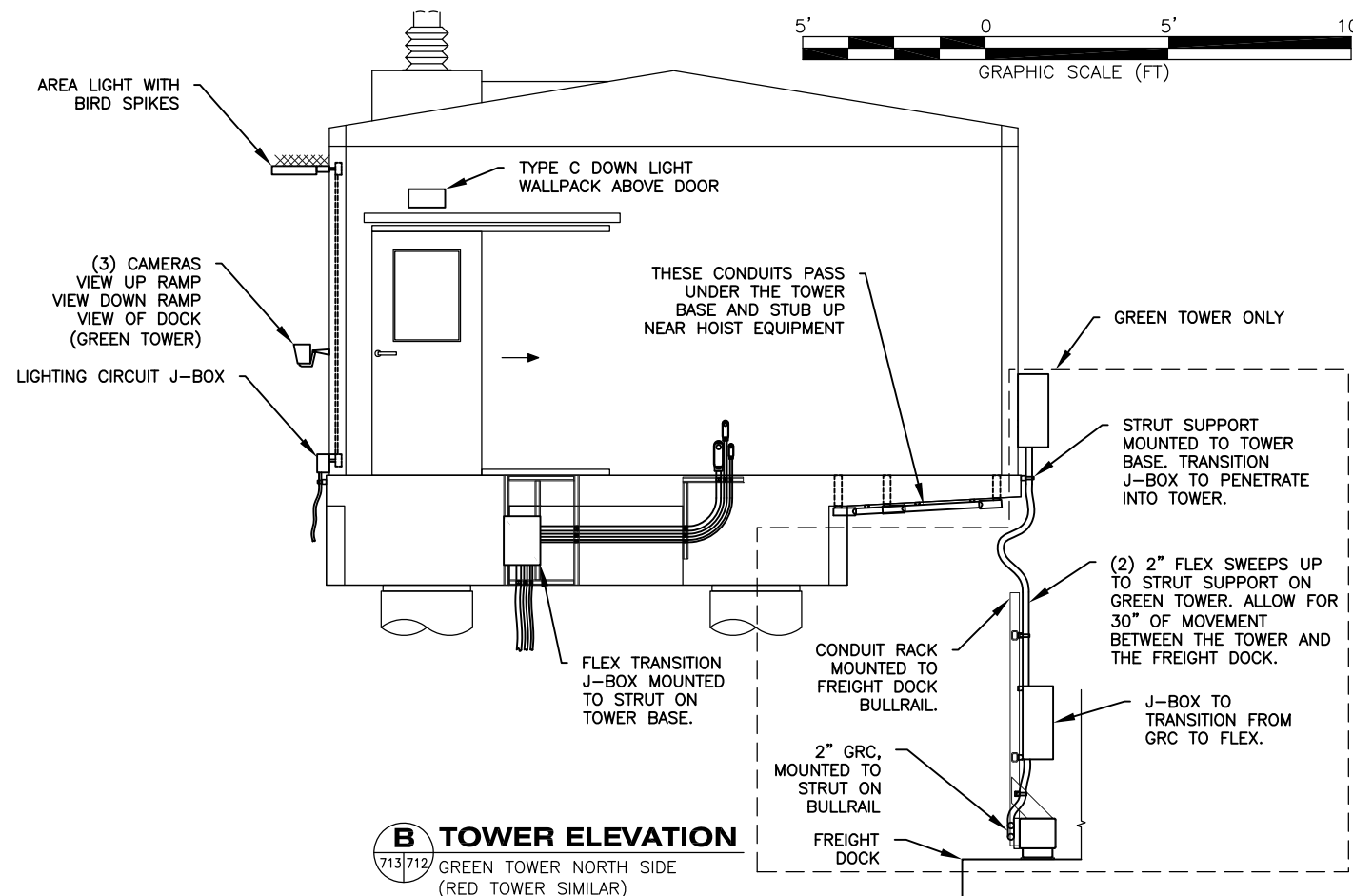
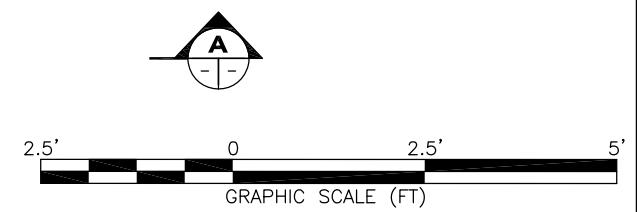
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			ALASKA	68128/0003182	2019	712	145



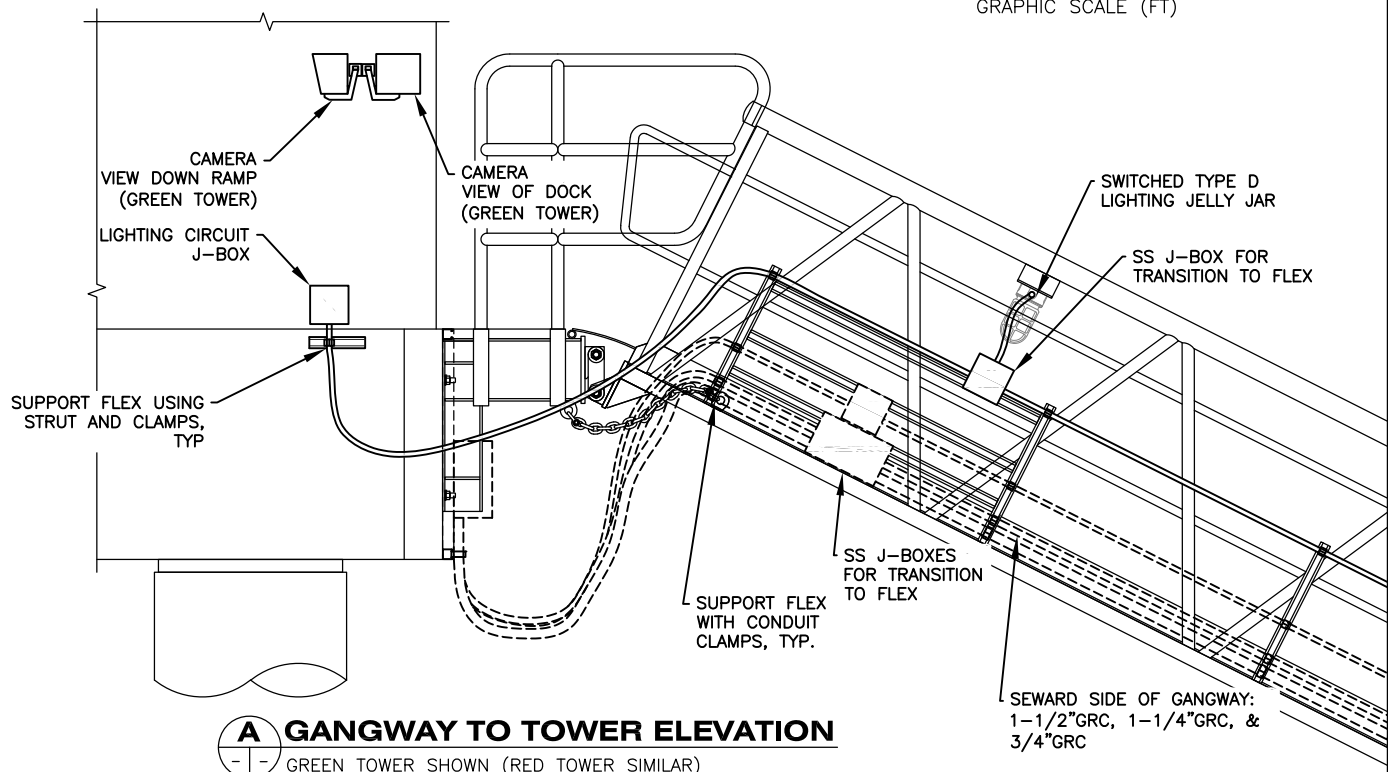
A TOWER ELEVATION
713/712 GREEN TOWER WEST SIDE



1 GANGWAY TO TOWER PLAN
713/712 GREEN TOWER SHOWN (RED TOWER SIMILAR)



B TOWER ELEVATION
713/712 GREEN TOWER NORTH SIDE (RED TOWER SIMILAR)



A GANGWAY TO TOWER ELEVATION
GREEN TOWER SHOWN (RED TOWER SIMILAR)

PLANS DEVELOPED BY: BOREAL CONTROLS INC. 3100 CHANNEL DRIVE, SUITE 101 JUNEAU, ALASKA 99801 907-586-8367 CERTIFICATE OF AUTHORIZATION NUMBER 271837		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GUSTAVUS FERRY TERMINAL IMPROVEMENTS ELECTRICAL LIFT TOWER BUILDINGS & GANGWAY CONDUIT ATTACHMENT
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DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

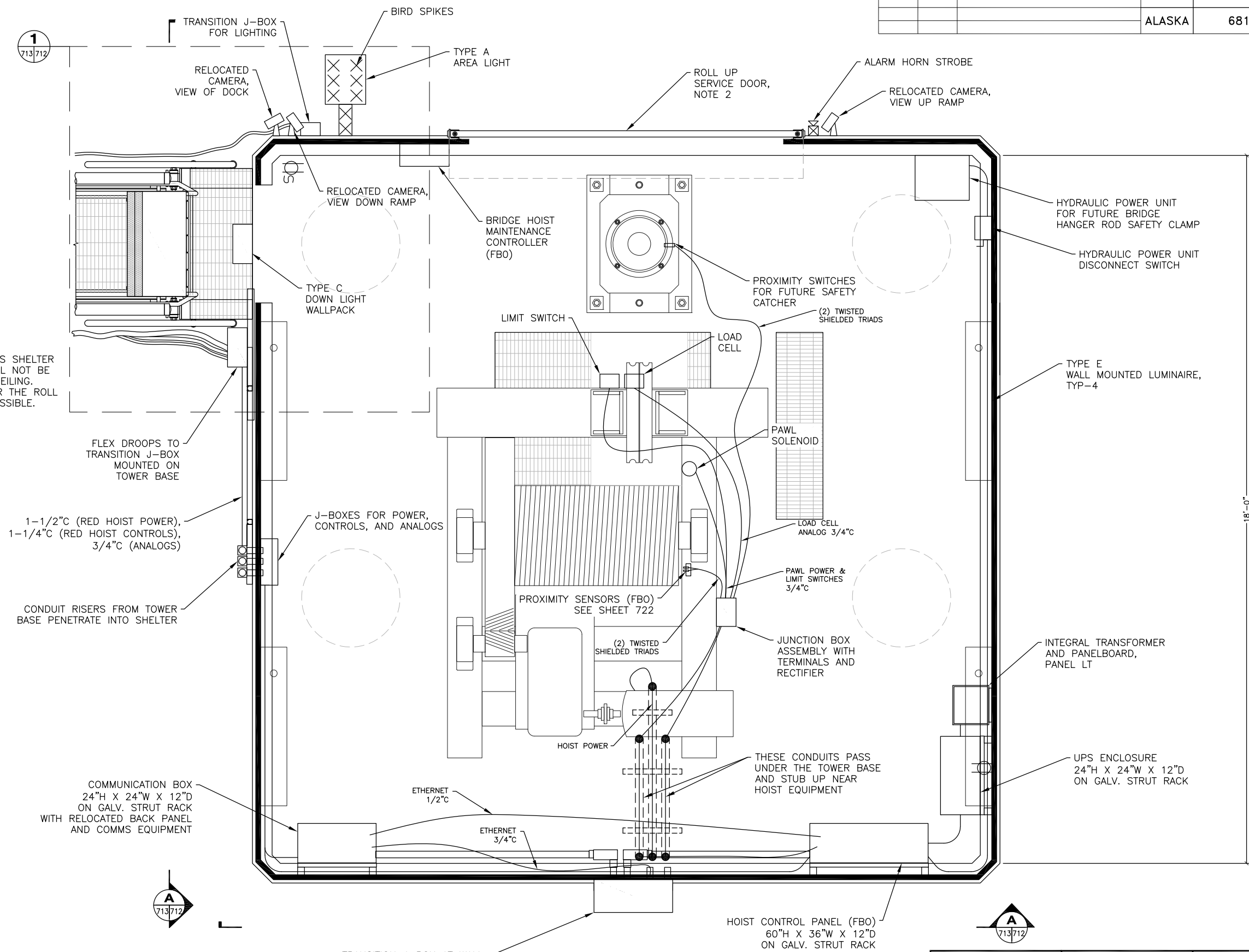
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HA 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	713	145

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 DESIGNED: BUD/TCO
 CHECKED: GSS
 DRAFTED: BUD/TCO

- NOTES:
1. THE ROOF OF THE FIBERGLASS SHELTER IS REMOVABLE. CONDUIT SHALL NOT BE ROUTED ANYWHERE ON THE CEILING.
 2. AVOID CONDUIT ROUTING NEAR THE ROLL UP SERVICE DOOR WHERE POSSIBLE.

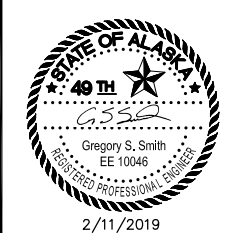


TRANSITION J-BOX AT WALL PENETRATION STRUT WELDED TO FLANGE. FLEX RISER FROM FREIGHT DOCK - ALLOW FOR 30" LATERAL MOVEMENT BETWEEN DOCK AND TOWER.

PLAN
GREEN LIFT TOWER

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ELECTRICAL GREEN LIFT TOWER

HH 10/01/2024

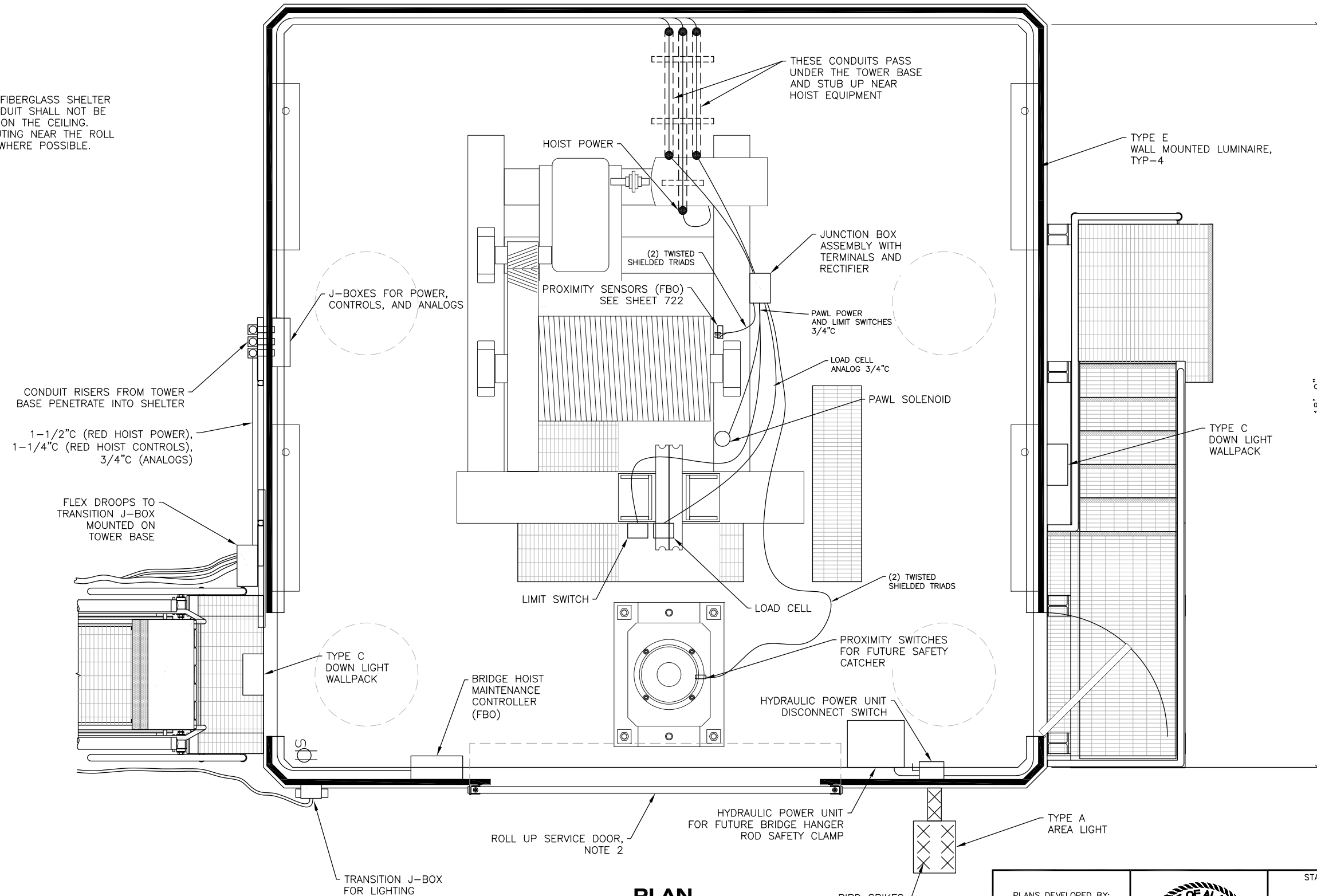
2/11/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	714	145

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NOTES:

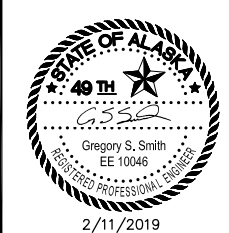
1. THE ROOF OF THE FIBERGLASS SHELTER IS REMOVABLE. CONDUIT SHALL NOT BE ROUTED ANYWHERE ON THE CEILING.
2. AVOID CONDUIT ROUTING NEAR THE ROLL UP SERVICE DOOR WHERE POSSIBLE.



PLAN
RED LIFT TOWER

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

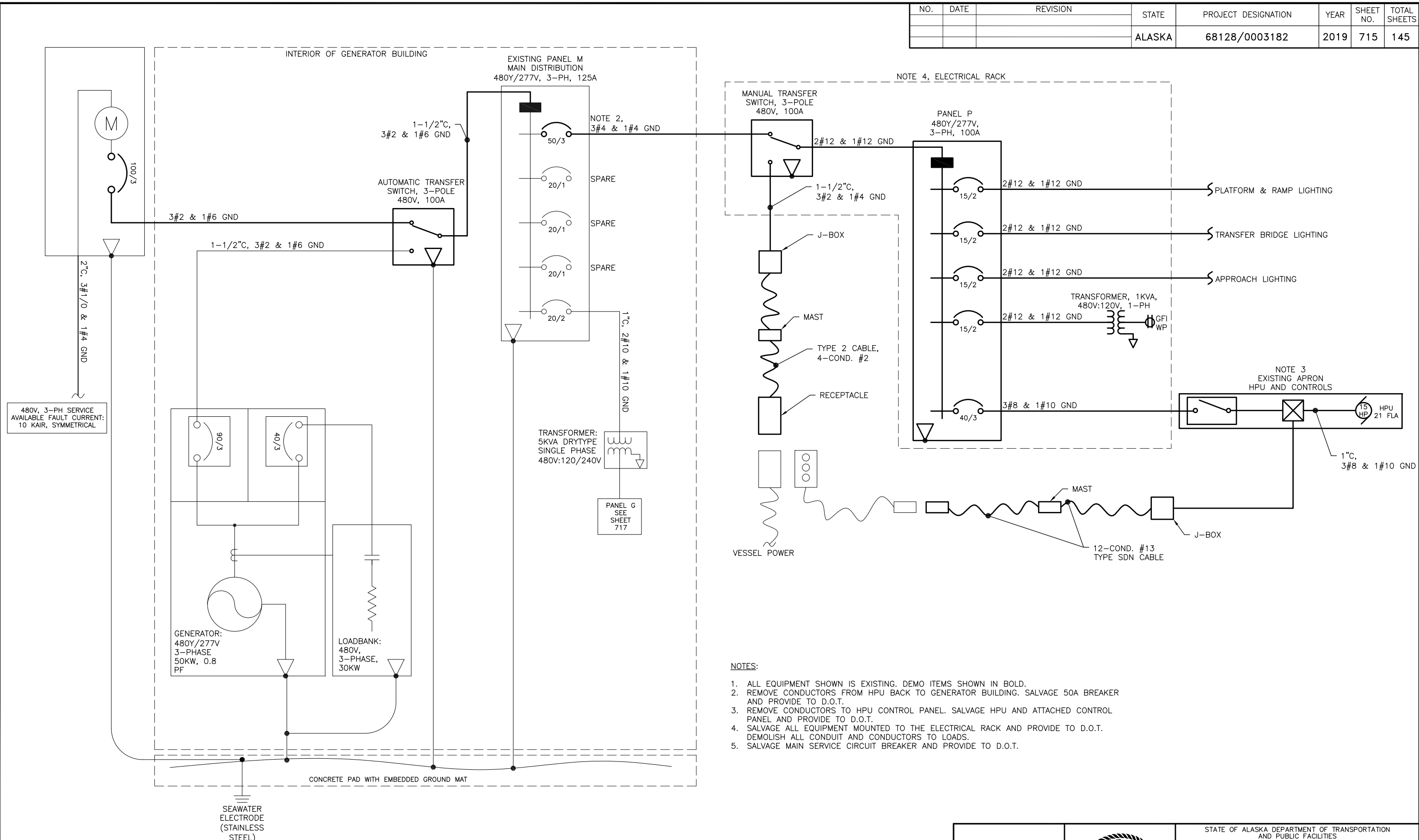
GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

ELECTRICAL
 RED LIFT TOWER

HH 10/01/2024

2/11/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	715	145



480V, 3-PH SERVICE
AVAILABLE FAULT CURRENT:
10 KAIR, SYMMETRICAL

- NOTES:
1. ALL EQUIPMENT SHOWN IS EXISTING. DEMO ITEMS SHOWN IN BOLD.
 2. REMOVE CONDUCTORS FROM HPU BACK TO GENERATOR BUILDING. SALVAGE 50A BREAKER AND PROVIDE TO D.O.T.
 3. REMOVE CONDUCTORS TO HPU CONTROL PANEL. SALVAGE HPU AND ATTACHED CONTROL PANEL AND PROVIDE TO D.O.T.
 4. SALVAGE ALL EQUIPMENT MOUNTED TO THE ELECTRICAL RACK AND PROVIDE TO D.O.T. DEMOLISH ALL CONDUIT AND CONDUCTORS TO LOADS.
 5. SALVAGE MAIN SERVICE CIRCUIT BREAKER AND PROVIDE TO D.O.T.

SINGLE LINE DIAGRAM
EXISTING DEMOLITION

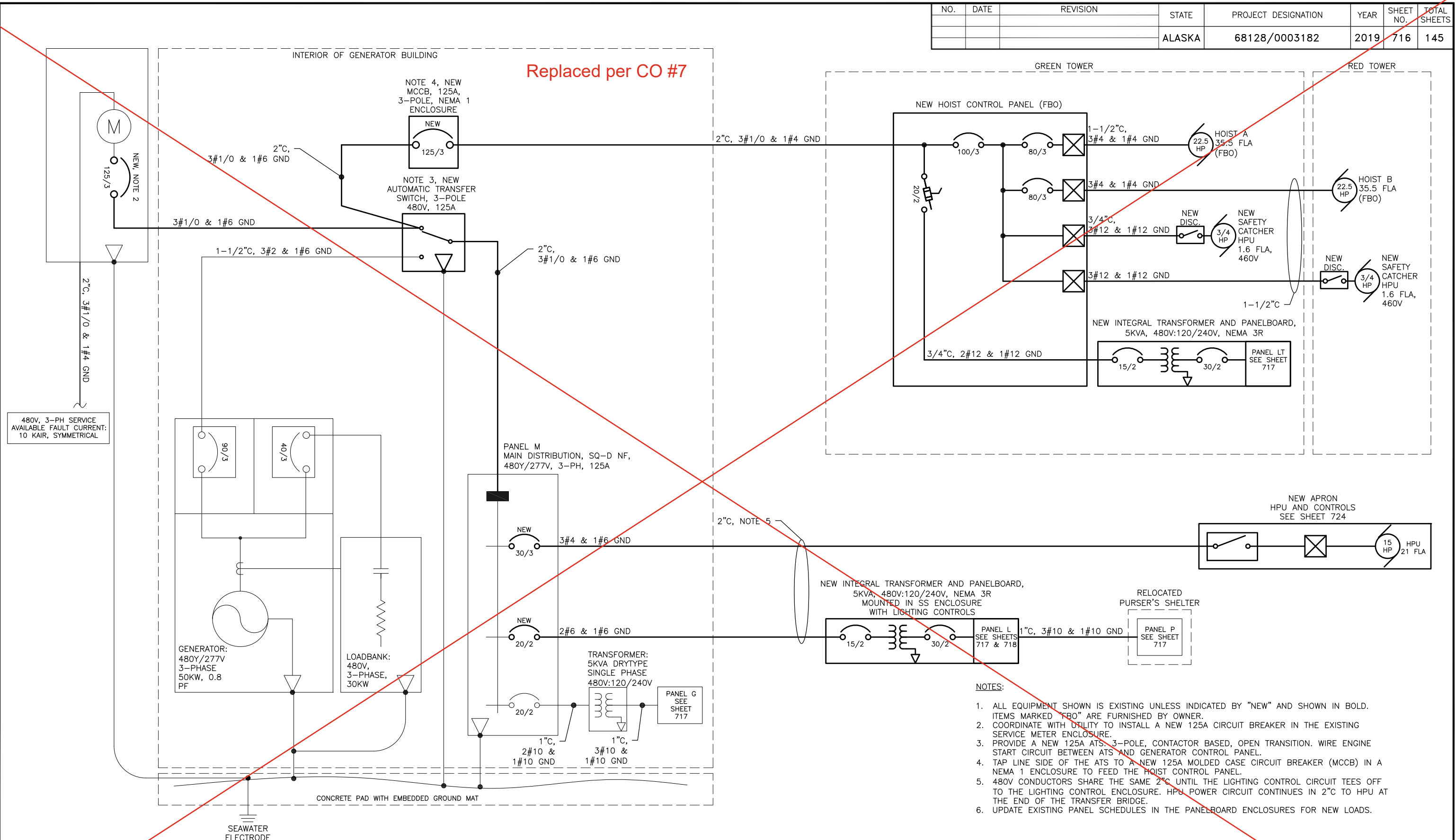
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

<p>PLANS DEVELOPED BY: BOREAL CONTROLS INC. 3100 CHANNEL DRIVE, SUITE 101 JUNEAU, ALASKA 99801 907-586-8367 CERTIFICATE OF AUTHORIZATION NUMBER 271837</p>	<p>Gregory S. Smith EE 10046 REGISTERED PROFESSIONAL ENGINEER</p> <p>2/11/2019</p>	<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p>GUSTAVUS FERRY TERMINAL IMPROVEMENTS</p> <p>ELECTRICAL SINGLE LINE POWER DIAGRAM EXISTING DEMOLITION</p> <p>HH 10/01/2024</p>
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FILE: H:\Open\Main\217 DOT_AMIS\217-12 AMIS Gustavus Bridge\Drawings\10 - Master\2 & H Imp\715 - ELECTRICAL_SINGLE LINE POWER DIAGRAM DEMO.dwg
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	716	145


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 DATE: 2/8/2019 9:40 LAYOUT: 716 CHECKED: GSS DESIGNED: BUD/TCO DRAFTED: BUD/TCO



- NOTES:**
1. ALL EQUIPMENT SHOWN IS EXISTING UNLESS INDICATED BY "NEW" AND SHOWN IN BOLD. ITEMS MARKED "FBO" ARE FURNISHED BY OWNER.
 2. COORDINATE WITH UTILITY TO INSTALL A NEW 125A CIRCUIT BREAKER IN THE EXISTING SERVICE METER ENCLOSURE.
 3. PROVIDE A NEW 125A ATS, 3-POLE, CONTACTOR BASED, OPEN TRANSITION. WIRE ENGINE START CIRCUIT BETWEEN ATS AND GENERATOR CONTROL PANEL.
 4. TAP LINE SIDE OF THE ATS TO A NEW 125A MOLDED CASE CIRCUIT BREAKER (MCCB) IN A NEMA 1 ENCLOSURE TO FEED THE HOIST CONTROL PANEL.
 5. 480V CONDUCTORS SHARE THE SAME 2" C UNTIL THE LIGHTING CONTROL CIRCUIT TEE'S OFF TO THE LIGHTING CONTROL ENCLOSURE. HPU POWER CIRCUIT CONTINUES IN 2" C TO HPU AT THE END OF THE TRANSFER BRIDGE.
 6. UPDATE EXISTING PANEL SCHEDULES IN THE PANELBOARD ENCLOSURES FOR NEW LOADS.

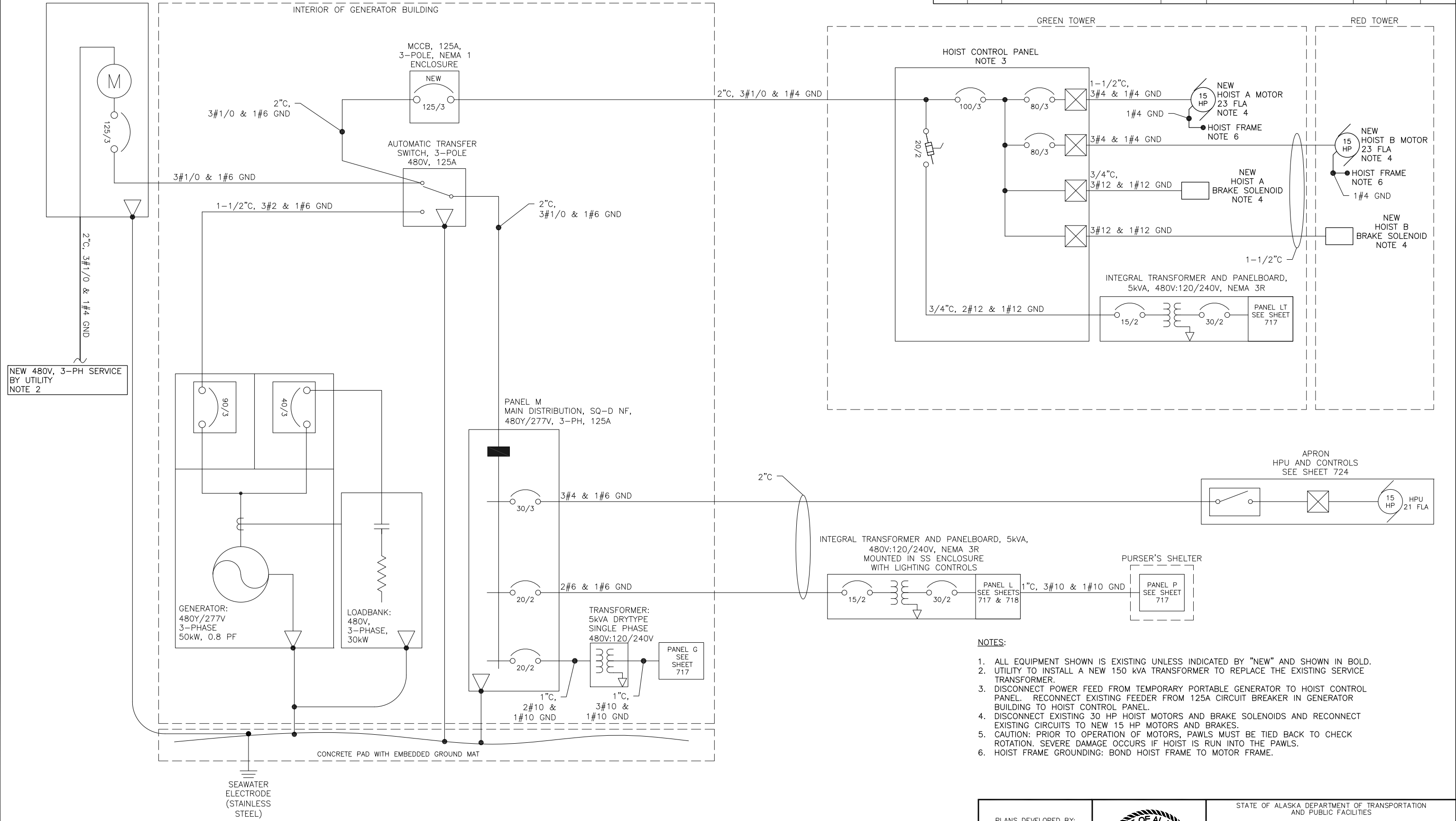
SINGLE LINE DIAGRAM
REVISED WITH NEW EQUIPMENT

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY: BOREAL CONTROLS INC. 3100 CHANNEL DRIVE, SUITE 101 JUNEAU, ALASKA 99801 907-586-8367 CERTIFICATE OF AUTHORIZATION NUMBER 271837	 <p>Gregory S. Smith EE 10046 REGISTERED PROFESSIONAL ENGINEER</p>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GUSTAVUS FERRY TERMINAL IMPROVEMENTS ELECTRICAL SINGLE LINE POWER DIAGRAM HH 10/01/2024
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/3/20	CHANGE ORDER #7	ALASKA	68128/0003182	2020	716	146
2	11/30/20	TRANSFORMER SIZE CORRECTION					

FILE: \\s:\shared\drawings\Projects\2017-12 AMIS Sustainment Bridge\Drawings\0 - Master\0 - Electrical\Single Line Power Diagram - REDDED.dwg
 DATE: 11/30/2020 13:31 LAYOUT: 716
 DESIGNED: GSS CHECKED: GSS DRAFTED: BJD



- NOTES:**
1. ALL EQUIPMENT SHOWN IS EXISTING UNLESS INDICATED BY "NEW" AND SHOWN IN BOLD.
 2. UTILITY TO INSTALL A NEW 150 kVA TRANSFORMER TO REPLACE THE EXISTING SERVICE TRANSFORMER.
 3. DISCONNECT POWER FEED FROM TEMPORARY PORTABLE GENERATOR TO HOIST CONTROL PANEL. RECONNECT EXISTING FEEDER FROM 125A CIRCUIT BREAKER IN GENERATOR BUILDING TO HOIST CONTROL PANEL.
 4. DISCONNECT EXISTING 30 HP HOIST MOTORS AND BRAKE SOLENOIDS AND RECONNECT EXISTING CIRCUITS TO NEW 15 HP MOTORS AND BRAKES.
 5. CAUTION: PRIOR TO OPERATION OF MOTORS, PAWLS MUST BE TIED BACK TO CHECK ROTATION. SEVERE DAMAGE OCCURS IF HOIST IS RUN INTO THE PAWLS.
 6. HOIST FRAME GROUNDING: BOND HOIST FRAME TO MOTOR FRAME.

SINGLE LINE DIAGRAM
REVISED WITH NEW EQUIPMENT

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
BOREAL CONTROLS INC.
3100 CHANNEL DRIVE,
SUITE 101
JUNEAU, ALASKA 99801
907-586-8367
CERTIFICATE OF
AUTHORIZATION NUMBER
271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

ELECTRICAL
SINGLE LINE POWER DIAGRAM

HH 10/01/2024

FILE: H:\Open\Main\2017 DOT\AMIS\Gustavus Bridge\Drawings\0 - Master\2 & H\Panel\77 - ELECTRICAL PANEL SCHEDULES.dwg
 DATE: 2/8/2019 14:38 LAYOUT: 717 CHECKED: GSS DESIGNED: BUD/TCO DRAFTED: BUD/TCO

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	717	145

PANEL G (EXISTING)									
	DESCRIPTION	CB	LOAD	A	B	LOAD	CB	DESCRIPTION	
1	GENERATOR LOUVERS	20/1	100	100		0	30/2	MAIN CIRCUIT BREAKER	2
3	UPS RECEPT FOR CAMERAS	20/1	1000		1000	0			4
5	BLANK			500		500	20/1	GENERATOR BLDG LIGHTS	6
7	BLANK				540	540	20/1	GENERATOR BLDG RECEPITS	8
9	BLANK			1080		1/3hp	20/1	DAY TANK	10
11	BLANK				750	750	20/1	BLOCK HEATER RECEIPT	12
13	BLANK			375		375	20/2	BASEBOARD HEATER	14
15	BLANK				375	375		BLANK	16
17	BLANK			240		240	20/1	BATTERY CHARGER	18
		Φ KVA	2.295	2.665			PANEL INFORMATION		
		Φ AMPERES	19.13	22.21			TYPE: SQUARE D NQ18L1C W/BACKFED MAIN		
		TOTAL KVA	4.96			1PH, 3W 120 / 240V 100A			
		AVERAGE AMPERES	20.67			MAIN CB: TYPE QOB 30A, 10 KAIR			
						PANEL VOLTAGE			120 240

1 PANEL G IN GENERATOR BUILDING
120/240V, 1-PHASE

PANEL L (NEW)									
	DESCRIPTION	CB	LOAD	A	B	LOAD	CB	DESCRIPTION	
1	APPROACH HANDRAIL LTG.	15/1	400	840		440	15/1	TRFR. BRIDGE HANDRAIL LTG.	2
3	POLE MOUNT LIGHTING	15/1	400		880	480	15/1	GANGWAY HANDRAIL LIGHTING	4
5	PURSER'S SHELTER	20/2	850	1050		200	15/1	HOIST TOWER EXT. LTG.	6
7			930		1080	150	15/1	LIGHTING CONTROL POWER	8
9	BLANK			0				BLANK	10
		Φ KVA	1.89	1.96			PANEL INFORMATION		
		Φ AMPERES	15.75	16.33			TYPE: 10 POSITION		
		TOTAL KVA	3.85			1PH, 3W 120 / 240V 100A			
		AVERAGE AMPERES	16.04			MAIN CB: TYPE QO 30A, 10 KAIR			
						PANEL VOLTAGE			120 240

2 PANEL L NEAR PURSER'S SHELTER
120/240V, 1-PHASE

PANEL P (EXISTING) NEW CIRCUIT BREAKERS MARKED WITH *									
	DESCRIPTION	CB	LOAD	A	B	LOAD	CB	DESCRIPTION	
1	INTERIOR LIGHTING	15/1	100	850		750	20/2	240V SHELTER HEATER RECEPT.	2
3	DUPLEX RECEPTACLE	20/1	180		930	750			4
5	BLANK			0				BLANK	6
7	BLANK				0			BLANK	8
9	BLANK			0				BLANK	10
11	BLANK				0			BLANK	12
		Φ KVA	0.85	0.93			PANEL INFORMATION		
		Φ AMPERES	7.08	7.75			TYPE: SQUARE D QO112M100 LOADCENTER		
		TOTAL KVA	1.78			1PH, 3W 120 / 240V 100A			
		AVERAGE AMPERES	7.42			MAIN CB: TYPE QO 30A*, 10 KAIR			
						PANEL VOLTAGE			120 240

3 PANEL P IN PURSER'S SHELTER
120/240V, 1-PHASE

PANEL LT (NEW)									
	DESCRIPTION	CB	LOAD	A	B	LOAD	CB	DESCRIPTION	
1	GREEN TOWER RECEPTACLES	20/1	360	560		200	15/1	RED TOWER RECPTACLES	2
3	GREEN TOWER SPARE	20/1			0		15/1	RED TOWER SPARE	4
5	GREEN SAFETY CATCHER HPU HTR.	20/1	250	500		250	15/1	RED SAFETY CATCHER HPU HEATER	6
7	GREEN CONTROL PANEL	20/1	1500		1500			BLANK	8
9	GREEN INTERIOR LIGHTING	20/1	200	380		180	15/1	RED TOWER INTERIOR LIGHTING	10
		Φ KVA	1.44	1.5			PANEL INFORMATION		
		Φ AMPERES	12.00	12.50			TYPE: 10 POSITION		
		TOTAL KVA	2.94			1PH, 3W 120 / 240V 100A			
		AVERAGE AMPERES	12.25			MAIN CB: 30A, 10 KAIR			
						PANEL VOLTAGE			120 240

4 PANEL LT IN GREEN TOWER SHELTER
120/240V, 1-PHASE

PANEL M (EXISTING) NEW CIRCUIT BREAKERS MARKED WITH *									
	DESCRIPTION	CB	LOAD	A	B	C	LOAD	CB	DESCRIPTION
1			5817	8112			2295		
3	HYDRAULIC POWER UNIT	30/3*	5817		8482		2665	20/2	PANEL G 5KVA TRANSFORMER
5			5817			5817	0	20/1	SPARE
7	SPARE	20/1	0	0			0	20/1	SPARE
9			1890		1890				BLANK
11	PANEL L 5KVA TRANSFORMER	20/2*	1960			1960			BLANK
13	BLANK			0					BLANK
15	BLANK				0				BLANK
17	BLANK					0			BLANK
		Φ KVA	8.112	10.37	7.777			PANEL INFORMATION	
		Φ AMPERES	29.29	37.44	28.08			TYPE: SQUARE D NQNF 18 POLE	
		TOTAL KVA	26.26					3PH, 3W 480Y 125A	
		TOTAL AMPERES	31.6					MAIN LUGS ONLY	
								PANEL VOLTAGE	

5 PANEL M IN GENERATOR BUILDING
480V, 3-PHASE

PLANS DEVELOPED BY:
BOREAL CONTROLS INC.
3100 CHANNEL DRIVE,
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JUNEAU, ALASKA 99801
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AUTHORIZATION NUMBER
271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

ELECTRICAL
PANEL SCHEDULES

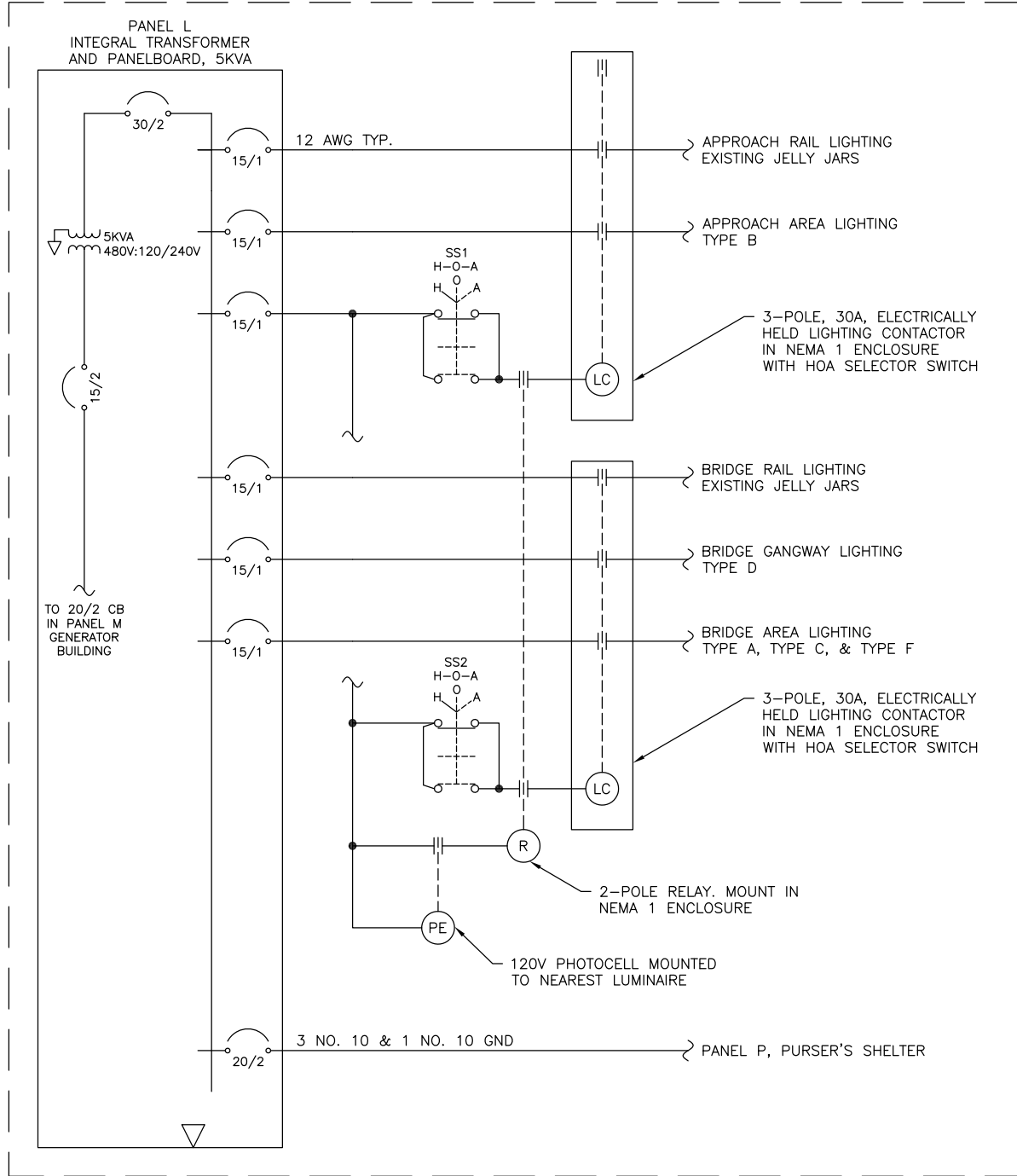
HH 10/01/2024

2/11/2019

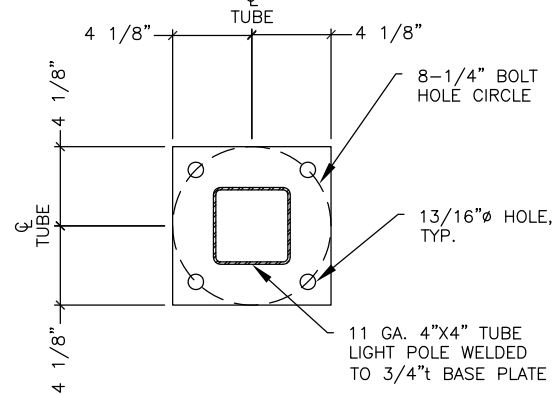
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

FILE: \\p\shared\Main\2017\DOT\AMIS\2017-12\AMIS Gustavus Bridge\Drawings\0 - Master\2 - H. Design\718 - ELECTRICAL LIGHTING SCHEMATIC.dwg
 DATE: 2/8/2019 9:46 LAYOUT: 718
 DESIGNED: BUD/TCO
 CHECKED: GSS
 DRAFTED: BUD/TCO

NEMA 4X STAINLESS STEEL ENCLOSURE,
48"X48"X12", MOUNTED TO TRAFFIC RAIL



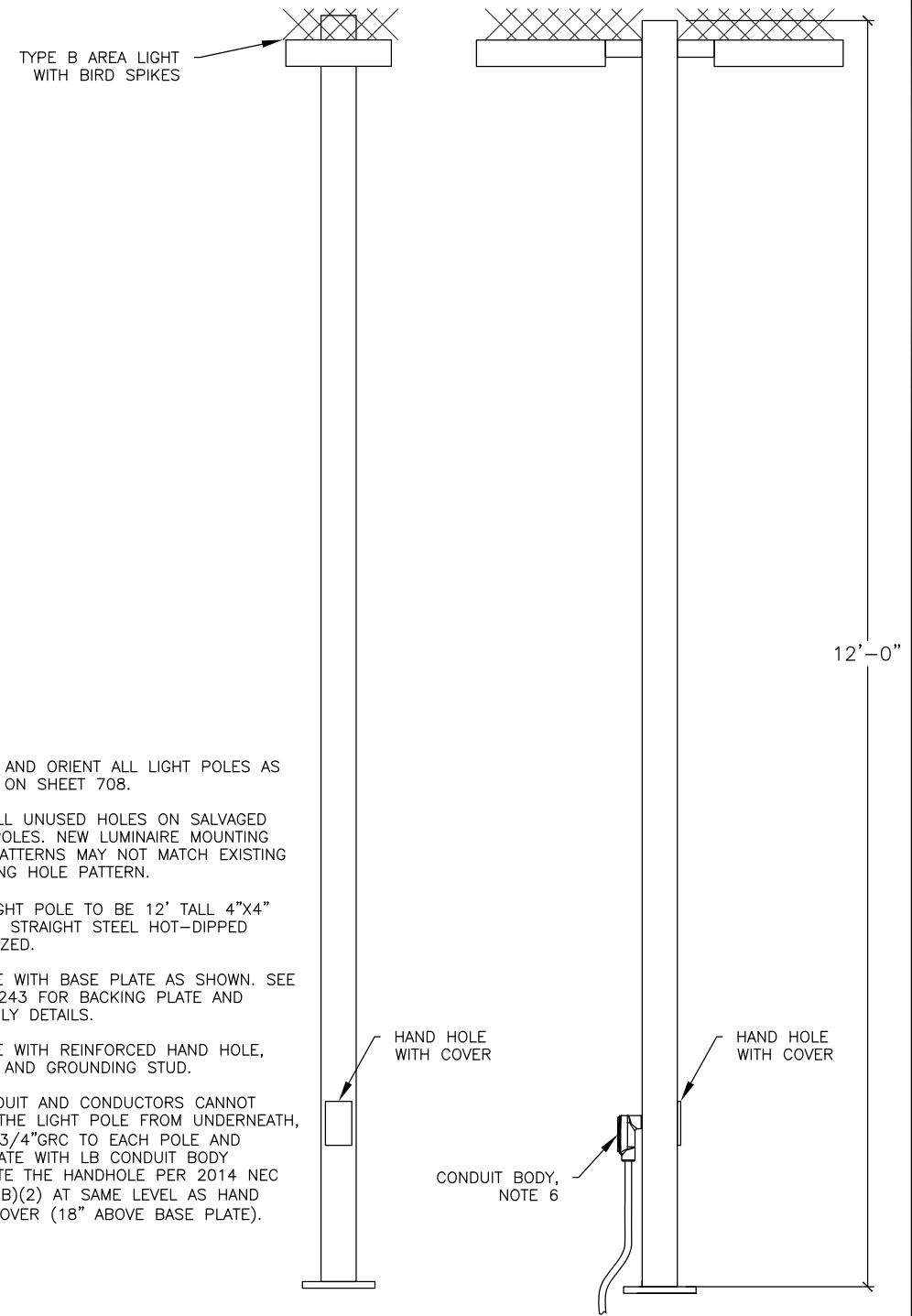
LIGHTING CONTROL SCHEMATIC



LIGHT POLE BASE PLATE

- NOTES:
1. NEW LIGHT POLE BASE PLATE TO MATCH SALVAGED POLE BASE PLATE BOLT HOLE PATTERN.
 2. SEE SHEET 243 FOR BACKING PLATE AND ASSEMBLY DETAILS.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	718	145



NOTES:

1. LOCATE AND ORIENT ALL LIGHT POLES AS SHOWN ON SHEET 708.
2. SEAL ALL UNUSED HOLES ON SALVAGED LIGHT POLES. NEW LUMINAIRE MOUNTING HOLE PATTERNS MAY NOT MATCH EXISTING MOUNTING HOLE PATTERN.
3. NEW LIGHT POLE TO BE 12' TALL 4"X4" SQUARE STRAIGHT STEEL HOT-DIPPED GALVANIZED.
4. PROVIDE WITH BASE PLATE AS SHOWN. SEE SHEET 243 FOR BACKING PLATE AND ASSEMBLY DETAILS.
5. PROVIDE WITH REINFORCED HAND HOLE, COVER, AND GROUNDING STUD.
6. IF CONDUIT AND CONDUCTORS CANNOT ENTER THE LIGHT POLE FROM UNDERNEATH, ROUTE 3/4" GRC TO EACH POLE AND PENETRATE WITH LB CONDUIT BODY OPPOSITE THE HANDHOLE PER 2014 NEC 410.30(B)(2) AT SAME LEVEL AS HAND HOLE COVER (18" ABOVE BASE PLATE).

LIGHT POLE FRONT VIEW

LIGHT POLE SIDE VIEW

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMPS	REMARKS
A	LED AREA LIGHT. DIE CAST ALUMINUM HOUSING. TOOL-LESS ENTRY. TYPE II DISTRIBUTION, 4000K COLOR TEMPERATURE, 120V, APPROXIMATELY 188W POWER CONSUMPTION, IP65 MINIMUM RATING, CORROSION RESISTANT PAINT, LIGHT GRAY FINISH, WALL MOUNT.	LED	WALLMOUNT TO HOIST SHELTERS WHERE SHOWN ON THE DRAWINGS. PROVIDE WITH BIRD SPIKES.
B	LED AREA LIGHT. DIE CAST ALUMINUM HOUSING. TOOL-LESS ENTRY. TYPE II DISTRIBUTION, 3000K COLOR TEMPERATURE, 120V, APPROXIMATELY 46W POWER CONSUMPTION, IP65 MINIMUM RATING, CORROSION RESISTANT PAINT, LIGHT GRAY FINISH, SQUARE POLE MOUNT.	LED	APPROACH ADDITION AREA, POLE MOUNT TO 4"X4" POLE WHERE SHOWN ON THE DRAWINGS. PROVIDE PHOTOCELL ON POLE NEAR PURSER SHELTER AND SHIELD FROM OTHER LUMINAIRES. PROVIDE WITH BIRD SPIKES.
C	LED WALL PACK. FULL CUTOFF, IP65 MINIMUM RATING, SUITABLE FOR WET LOCATION. 120V, APPROXIMATELY 40W POWER CONSUMPTION, 3000K COLOR TEMPERATURE.	LED	REPLACEMENT FOR GENERATOR BUILDING WALL PACK. ALSO, WALLMOUNT ABOVE HOIST SHELTER DOORS WHERE SHOWN ON THE DRAWINGS. PROVIDE WITH BIRD SPIKES IF NECESSARY.
D	GLOBE LIGHT CEILING MOUNT "JELLY JAR" LIGHT. VAPOR TIGHT, OUTSIDE TYPE (SALTWATER), MARINE LISTED, 120V, 100W-150W, CEILING MOUNT.	LED 40W EQUIV. A19	GANGWAY RAIL LIGHTING. LAMP WITH LED BULBS. NOTE: EXISTING RAIL LIGHTS ARE COOPER CROUSE-HINDS PAULUHN MODEL 717B.
E	HOIST TOWER SHELTER INTERIOR LIGHTING. SUITABLE FOR WET LOCATION. ONE LAMP, 120V, 48".	LED T8	WALLMOUNT TO HOIST SHELTER INTERIORS WHERE SHOWN ON THE DRAWINGS. PROVIDE ONE WITH EM BALLAST IN EACH SHELTER.
F	LED AREA LIGHT. DIE CAST ALUMINUM HOUSING. TOOL-LESS ENTRY. TYPE IV DISTRIBUTION, 4000K COLOR TEMPERATURE, 120V, APPROXIMATELY 188W POWER CONSUMPTION, IP65 MINIMUM RATING, CORROSION RESISTANT PAINT, LIGHT GRAY FINISH, SQUARE POLE MOUNT.	LED	MOUNT TO EXISTING TILT DOWN POLE ON FREIGHT DOCK. PROVIDE WITH BIRD SPIKES.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
BOREAL CONTROLS INC.
3100 CHANNEL DRIVE,
SUITE 101
JUNEAU, ALASKA 99801
907-586-8367
CERTIFICATE OF
AUTHORIZATION NUMBER
271837



2/11/2019

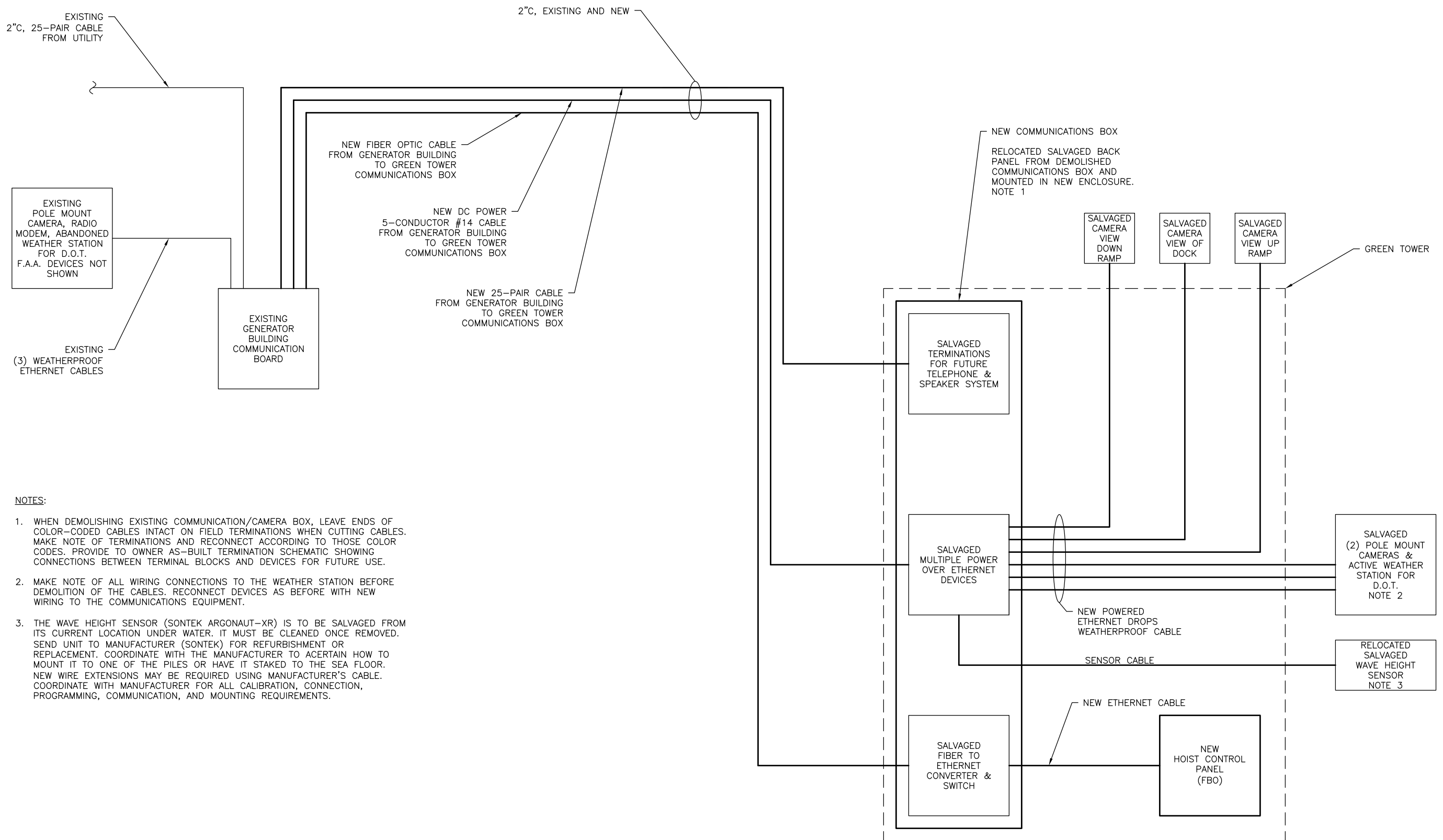
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

ELECTRICAL
LIGHTING SCHEMATIC

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	719	145




- NOTES:
1. WHEN DEMOLISHING EXISTING COMMUNICATION/CAMERA BOX, LEAVE ENDS OF COLOR-CODED CABLES INTACT ON FIELD TERMINATIONS WHEN CUTTING CABLES. MAKE NOTE OF TERMINATIONS AND RECONNECT ACCORDING TO THOSE COLOR CODES. PROVIDE TO OWNER AS-BUILT TERMINATION SCHEMATIC SHOWING CONNECTIONS BETWEEN TERMINAL BLOCKS AND DEVICES FOR FUTURE USE.
 2. MAKE NOTE OF ALL WIRING CONNECTIONS TO THE WEATHER STATION BEFORE DEMOLITION OF THE CABLES. RECONNECT DEVICES AS BEFORE WITH NEW WIRING TO THE COMMUNICATIONS EQUIPMENT.
 3. THE WAVE HEIGHT SENSOR (SONTEK ARGONAUT-XR) IS TO BE SALVAGED FROM ITS CURRENT LOCATION UNDER WATER. IT MUST BE CLEANED ONCE REMOVED. SEND UNIT TO MANUFACTURER (SONTEK) FOR REFURBISHMENT OR REPLACEMENT. COORDINATE WITH THE MANUFACTURER TO ACERTAIN HOW TO MOUNT IT TO ONE OF THE PILES OR HAVE IT STAKED TO THE SEA FLOOR. NEW WIRE EXTENSIONS MAY BE REQUIRED USING MANUFACTURER'S CABLE. COORDINATE WITH MANUFACTURER FOR ALL CALIBRATION, CONNECTION, PROGRAMMING, COMMUNICATION, AND MOUNTING REQUIREMENTS.

CAMERA AND COMMUNICATION SCHEMATIC

FILE: H:\Open\Main\217 DOT_AMIS\217-12 AMIS Gustavus Bridge\Drawings\0 - Master\2 & H\217\19 - ELECTRICAL CAMERA AND COMMUNICATIONS SCHEMATIC.DWG
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 CHECKED: GSS
 DRAFTED: BJD/TCO

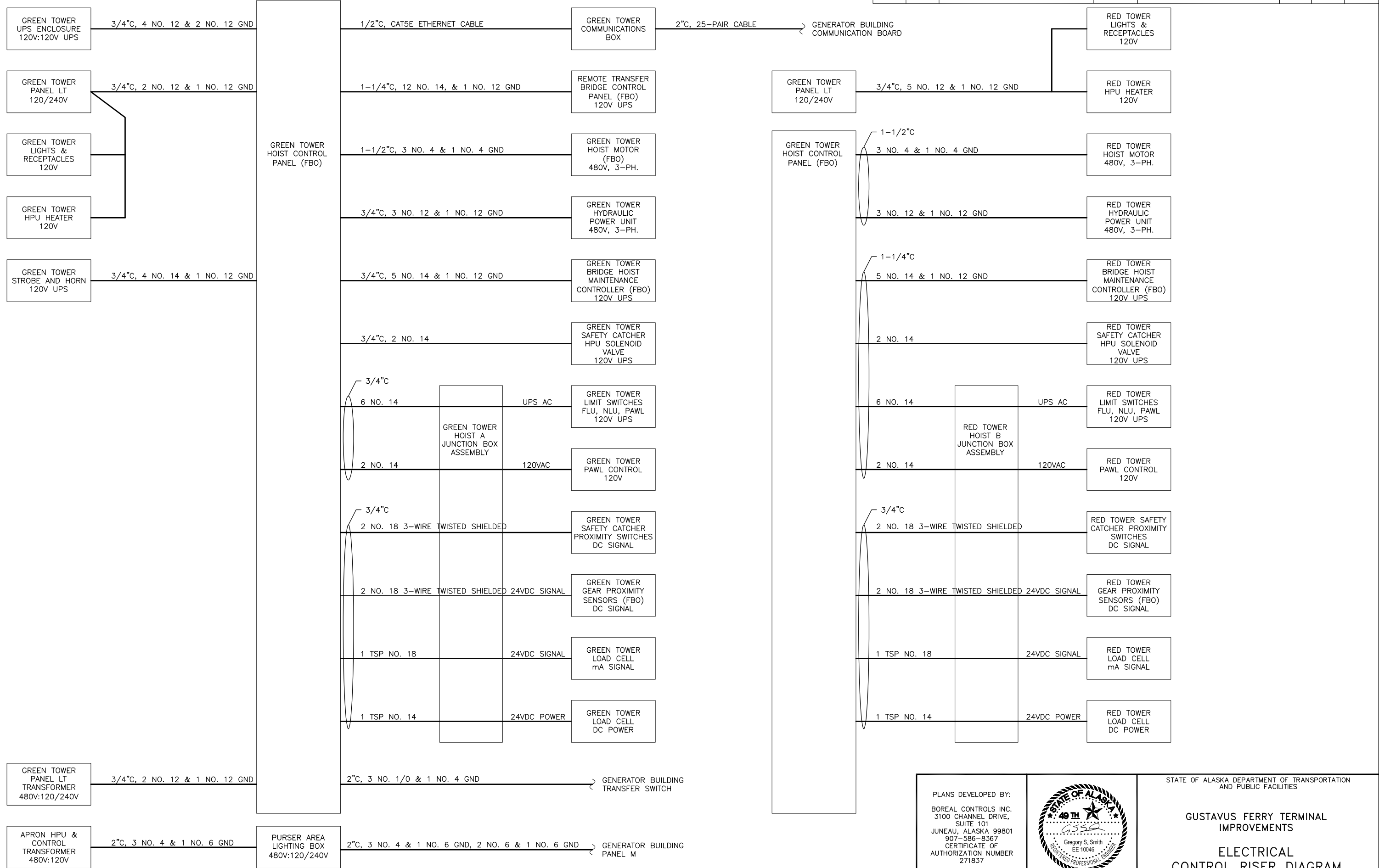
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY: BOREAL CONTROLS INC. 3100 CHANNEL DRIVE, SUITE 101 JUNEAU, ALASKA 99801 907-586-8367 CERTIFICATE OF AUTHORIZATION NUMBER 271837	 <p>Gregory S. Smith EE 10046 REGISTERED PROFESSIONAL ENGINEER</p>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GUSTAVUS FERRY TERMINAL IMPROVEMENTS ELECTRICAL CAMERA AND COMMUNICATION SCHEMATIC DIAGRAM HH 10/01/2024
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2/11/2019

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	720	145

FILE: H:\Users\Mark.V17\DOT\AMIS\2017-12\AMIS Gustavus Bridge\Drawings\0 - Master\2 & H\amp;V\720 - ELECTRICAL CONTROL RISER DIAGRAM.dwg
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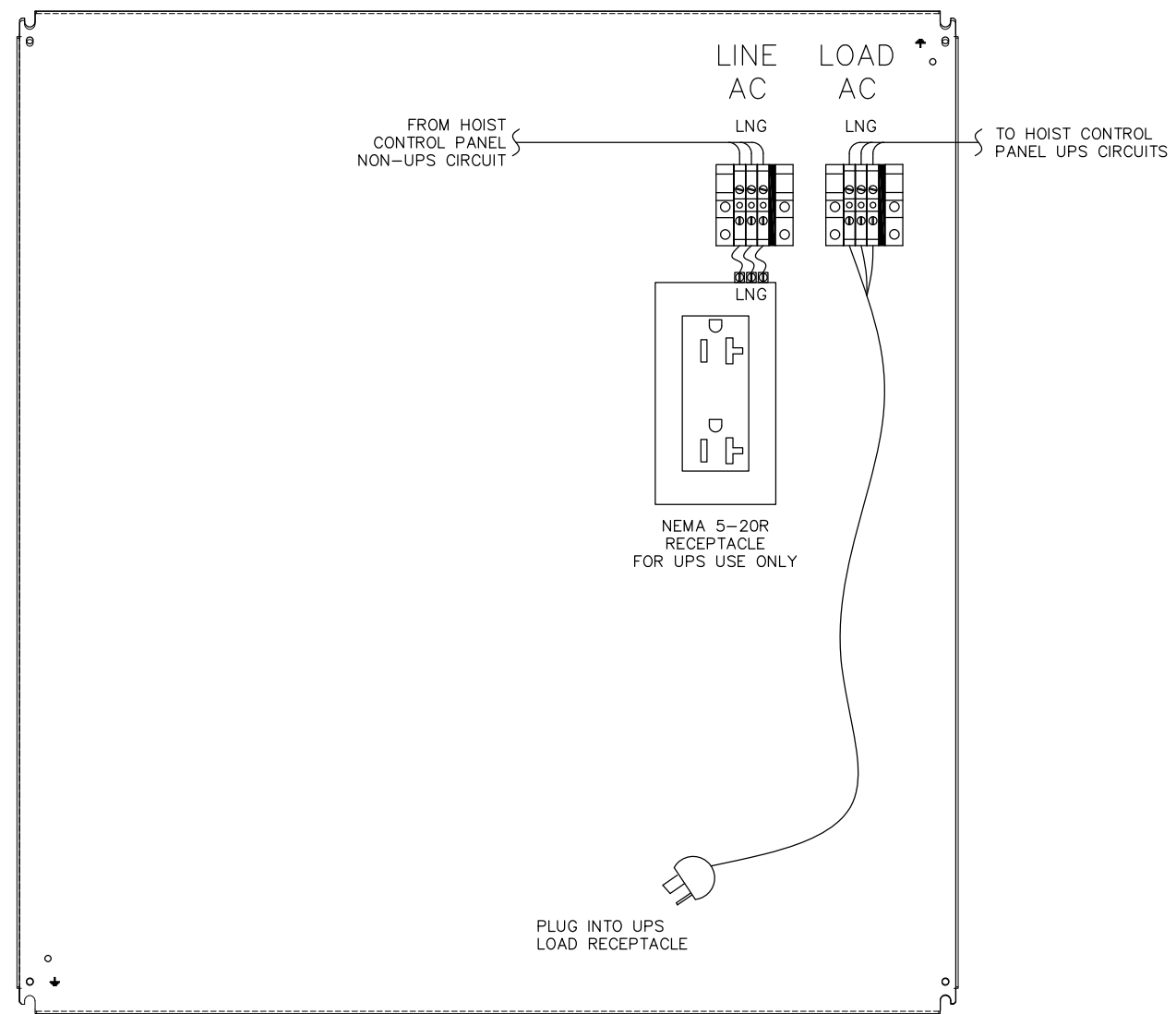


DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

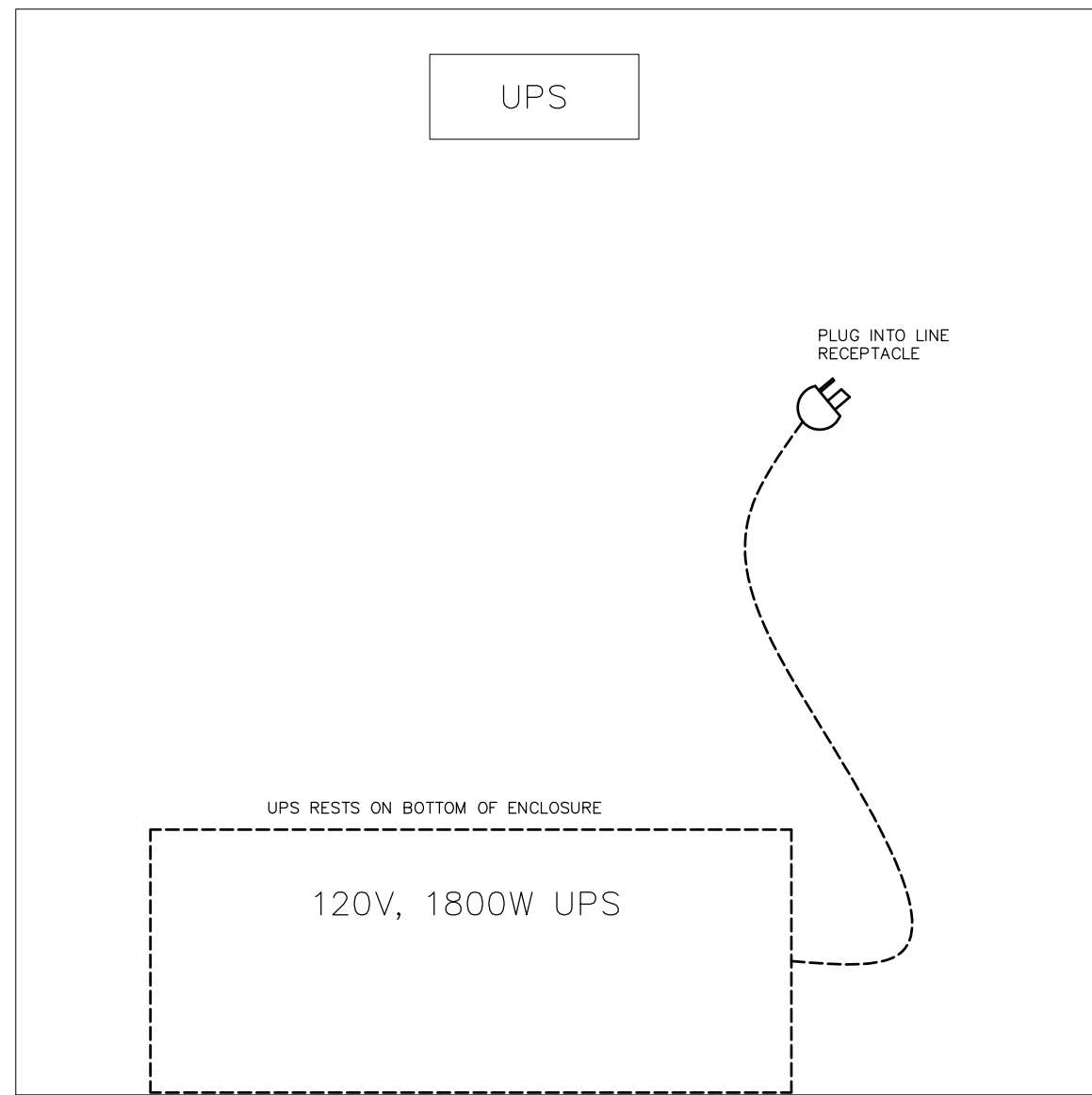
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	721	145

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 DATE: 2/9/2019 16:11 LAYOUT 721
 DESIGNED: BJD/TCO
 CHECKED: GSS
 DRAFTED: BJD/TCO



1 INTERIOR PANEL LAYOUT



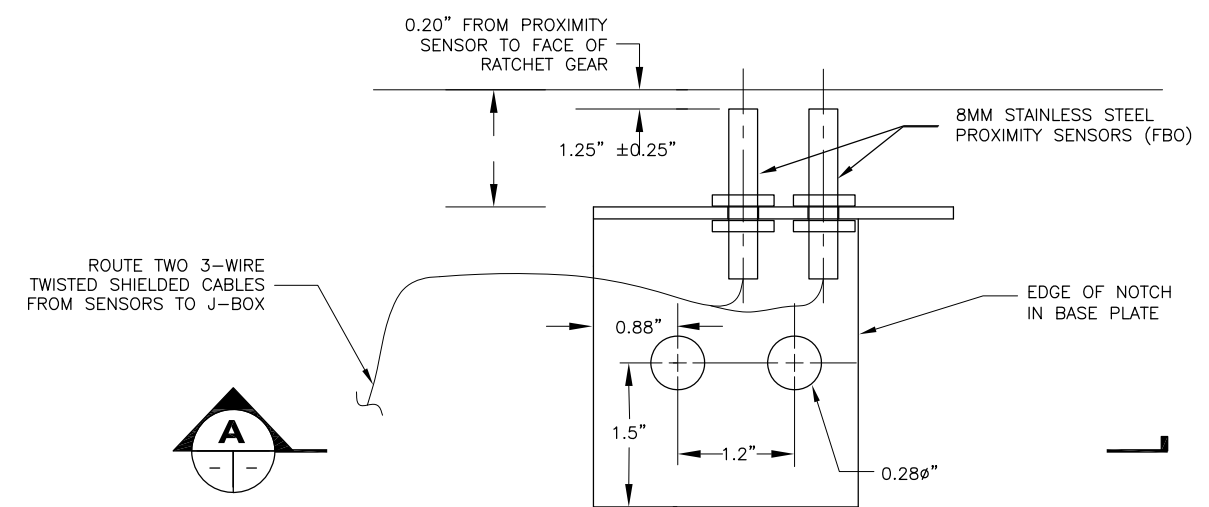
2 ENCLOSURE DOOR LAYOUT
24"H X 24"W X 12"D

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

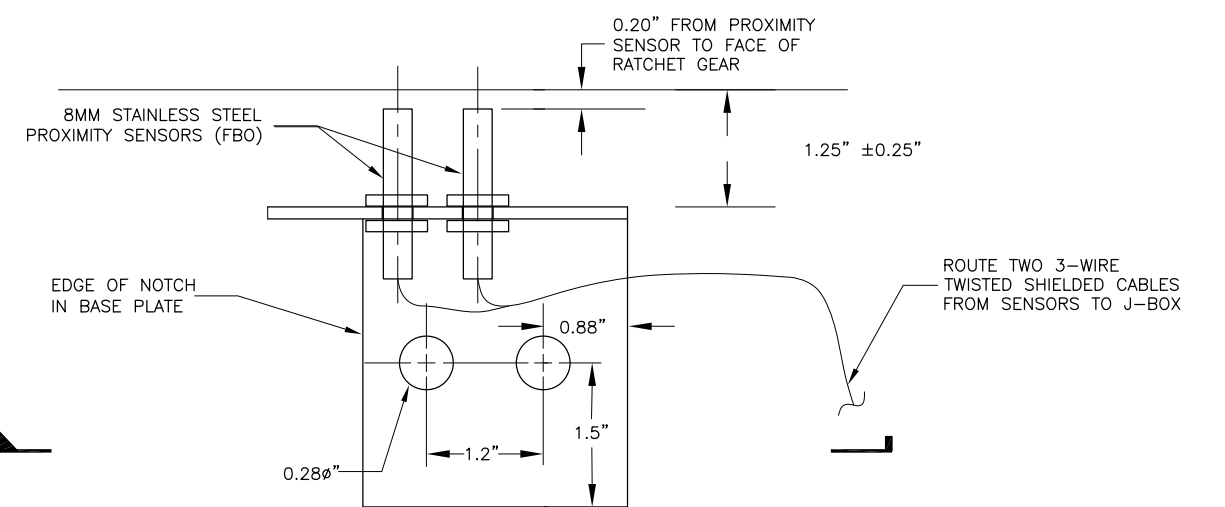
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FILE: H:\Shared\Main\217 DOT_AMS\217-12 AMS Gustavus Bridge\Drawings\0 - Master\2 & H\217-12 - ELECTRICAL CONTROLS TRANSFER BRIDGE POSITION SENSOR DETAILS.dwg DATE: 2/8/2019 14:57 LAYOUT: 722 DESIGNED: BJD/TCO CHECKED: GSS DRAFTED: BJD/TCO

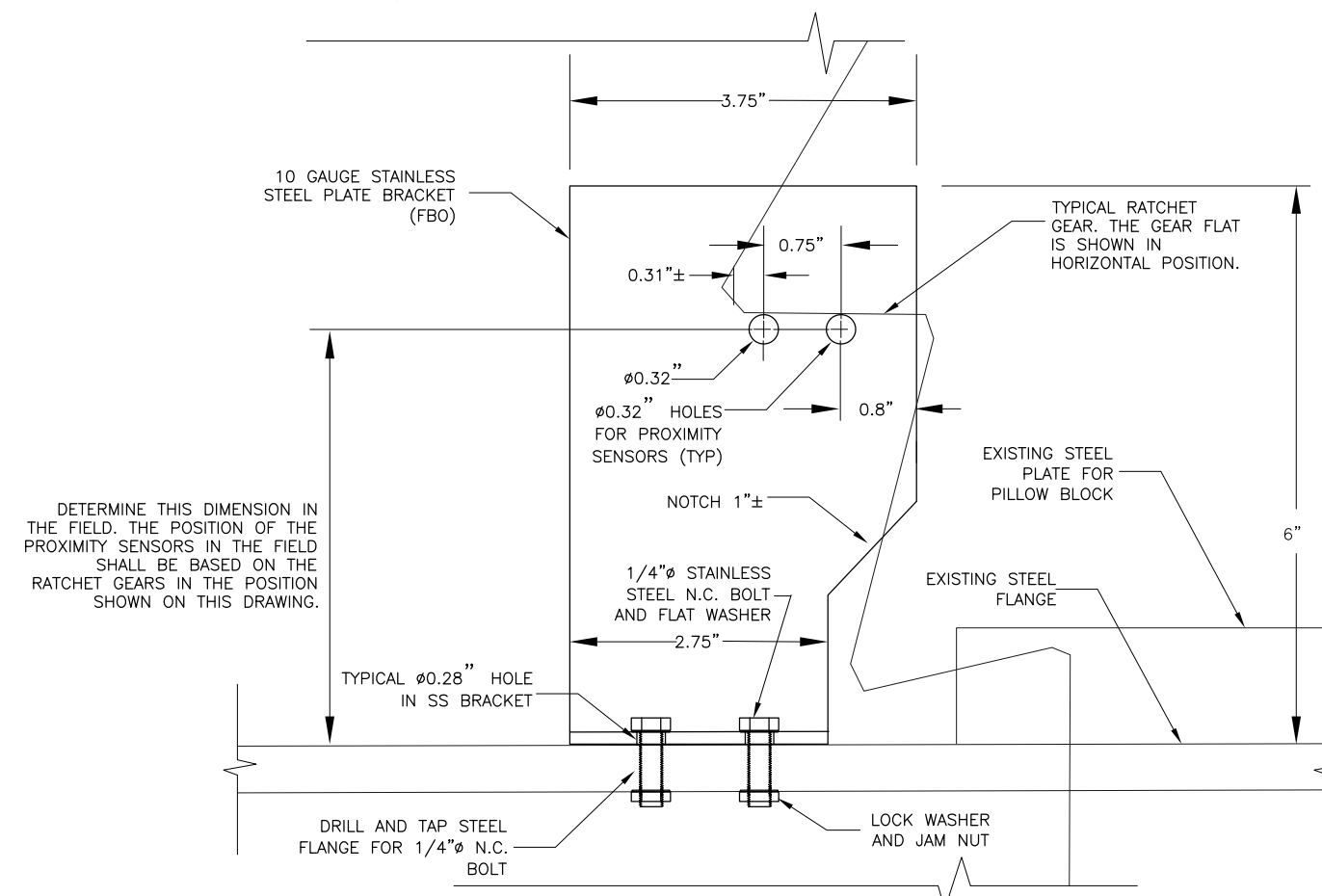
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			ALASKA	68128/0003182	2019	722	145



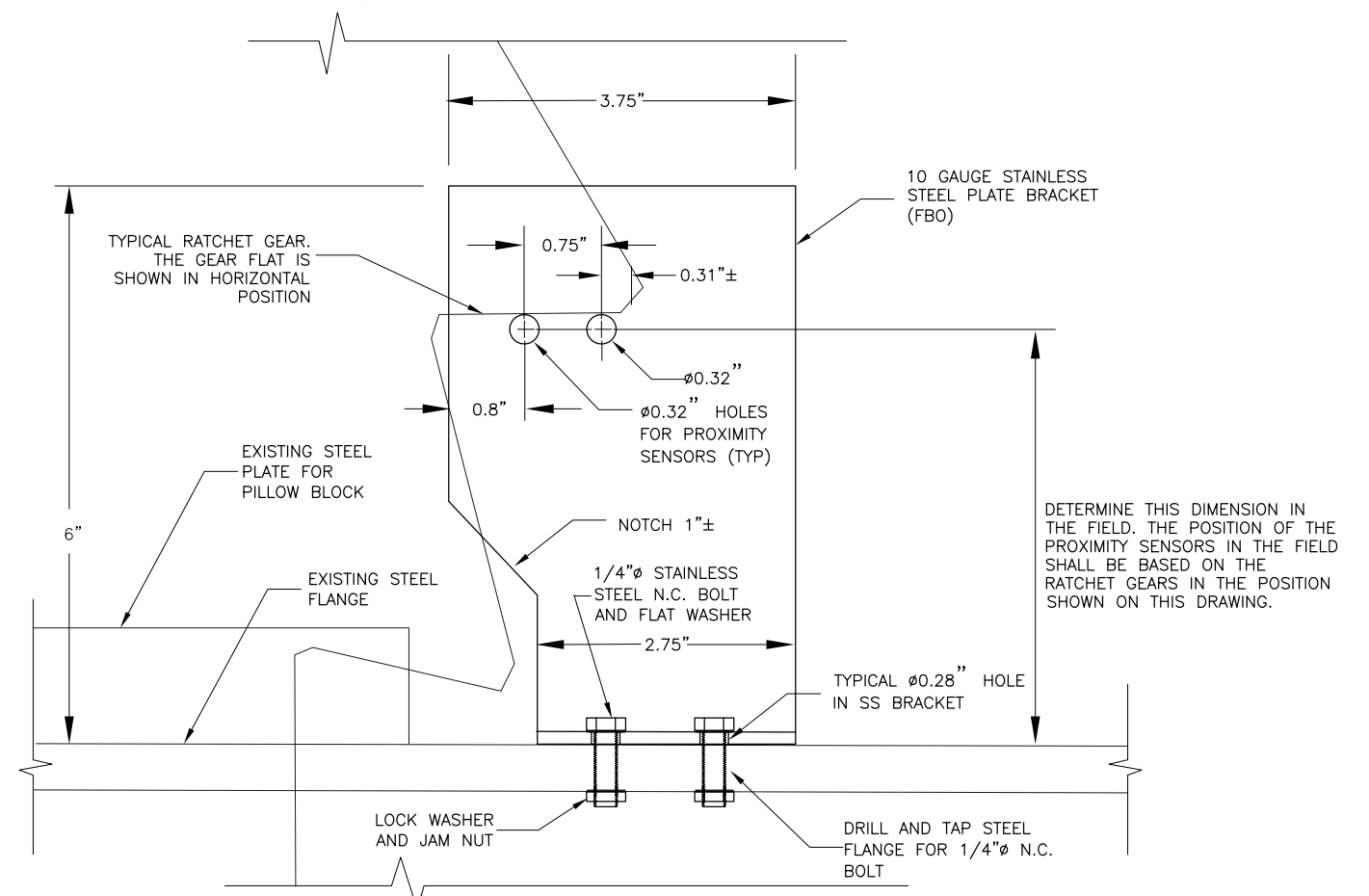
1 PLAN VIEW (GREEN TOWER) HOIST A



2 PLAN VIEW (RED TOWER) HOIST B



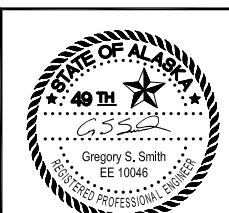
A FRONT VIEW (GREEN TOWER) HOIST A



B FRONT VIEW (RED TOWER) HOIST B

- NOTES:
- SOME DIMENSIONS AND HOLE LOCATIONS WILL BE DETERMINED IN THE FIELD.
 - OWNER TO PROVIDE (2) 10 GAUGE STAINLESS STEEL PLATE BRACKETS.
 - PROXIMITY SENSORS ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
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 271837



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

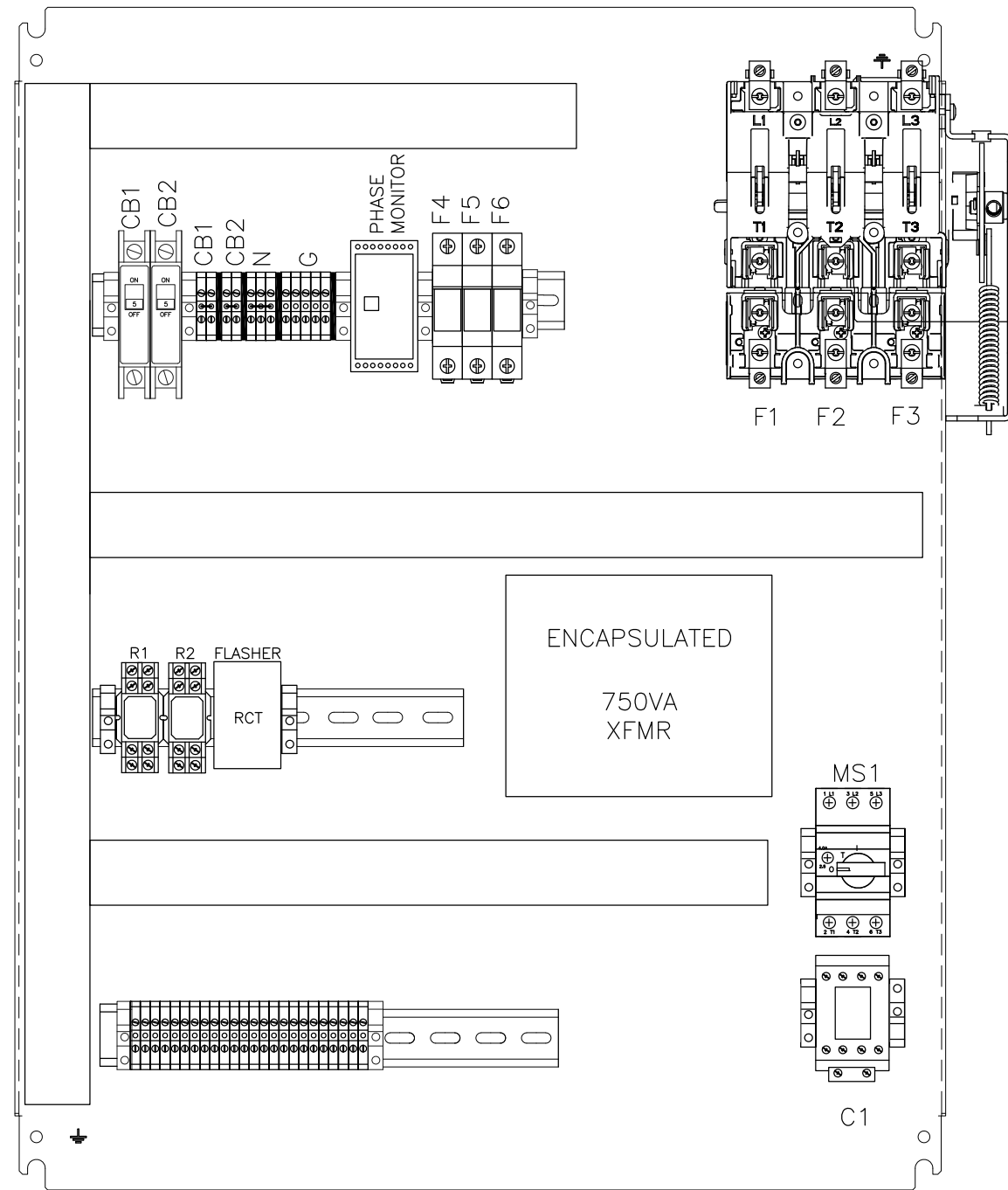
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

ELECTRICAL CONTROLS TRANSFER BRIDGE POSITION SENSOR DETAILS

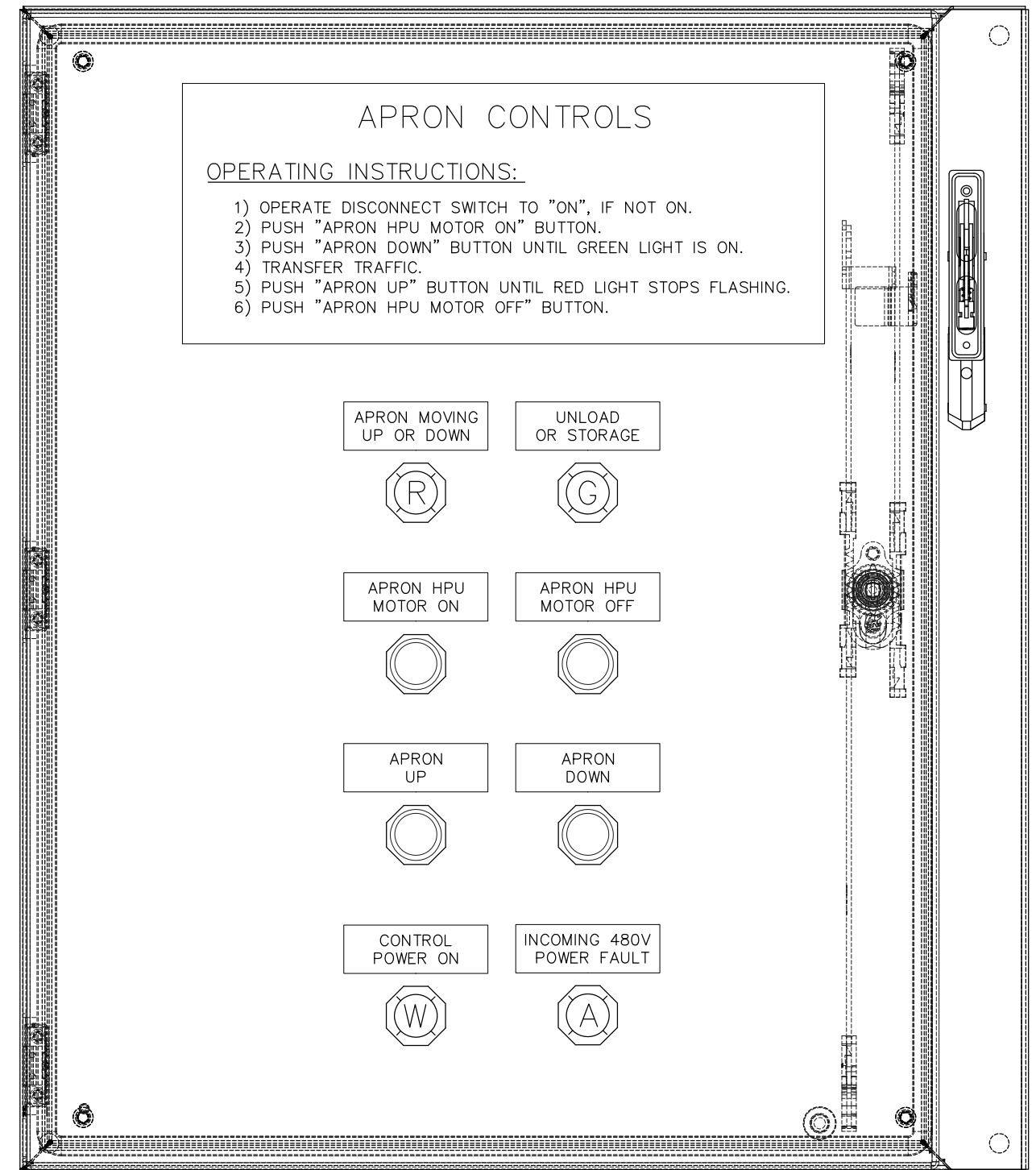
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

2/11/2019
 HPT 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	723	145



1 BACK PANEL LAYOUT
30" H X 24" W



2 APRON CONTROL PANEL DOOR LAYOUT
30" H X 26" W X 10" D - NEMA 4X, 316 STAINLESS STEEL

NOTES:

1. PROVIDE EXTERNAL PADLOCKABLE OPERATOR HANDLE AND FUSED DISCONNECT SWITCH.
2. PROVIDE FUSES FOR MAIN SWITCH, SIZE TO BE 30A, CLASS CC OR TYPE J.
3. PROVIDE TRANSFORMER MOUNT FUSE FOR 120V SECONDARY (NOT SHOWN).
4. PROVIDE 75W SILICONE RUBBER ENCLOSURE HEATER (NOT SHOWN).

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BOREAL CONTROLS INC.
3100 CHANNEL DRIVE,
SUITE 101
JUNEAU, ALASKA 99801
907-586-8367
CERTIFICATE OF
AUTHORIZATION NUMBER
271837



2/11/2019

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

ELECTRICAL CONTROLS
APRON CONTROLS

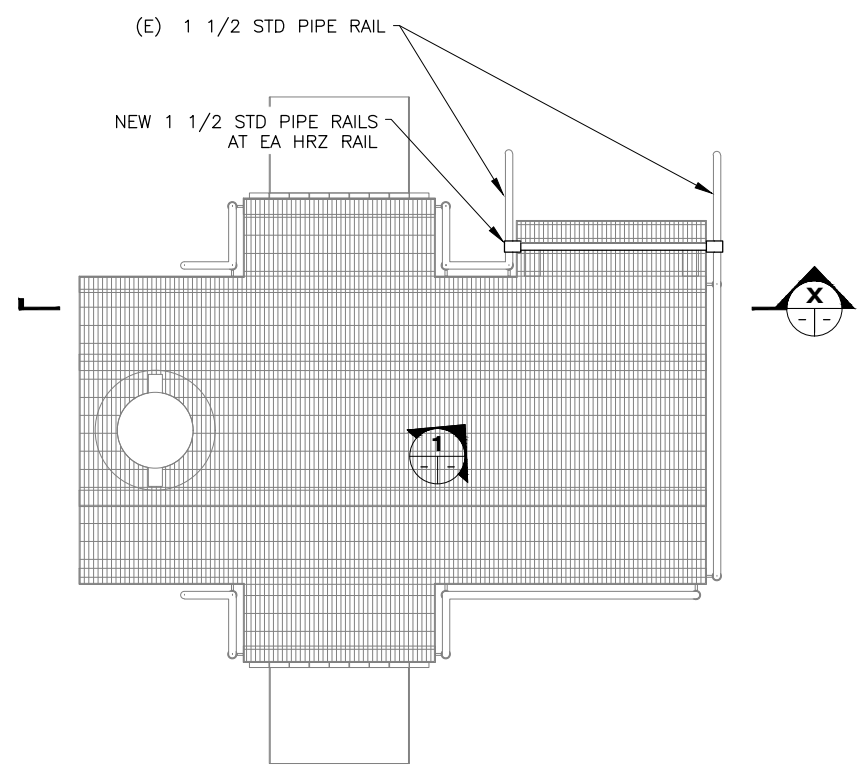
CONTROL PANEL LAYOUT

PH 19/01/2024

FILE: \\g:\shared\Main\2017\DOT_AMIS\Gustavus Bridge\Drawings\10 - Master\12 & H\190723 - ELECTRICAL CONTROLS APRON CONTROLS CONTROL PANEL LAYOUT.dwg DATE: 2/11/2019 14:48 LAYOUT: 723 DESIGNED: BUD/TCO CHECKED: GSS DRAFTED: BUD/TCO

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2021	723A	

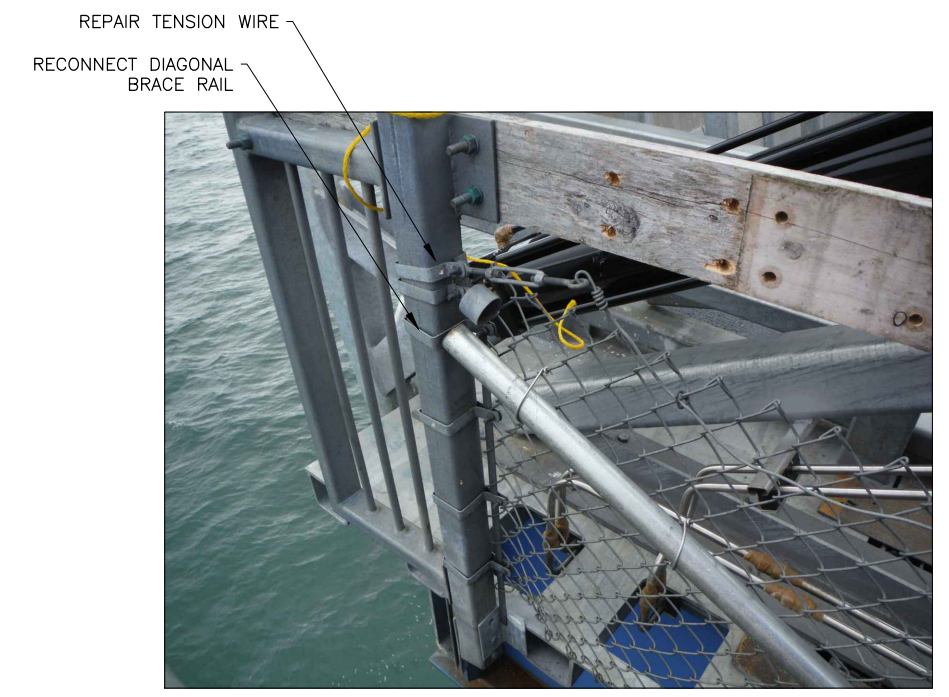
FILE Q:\ous\68128\VF\DESIGN\THD\BRACING, CLIP & RAILING REPAIR\RAIL REPAIR\MISC REPAIRS.dwg
 DATE 12/3/2020 17:22 LAYOUT 04
 DESIGNED STAFF
 CHECKED STAFF
 DRAFTED STAFF



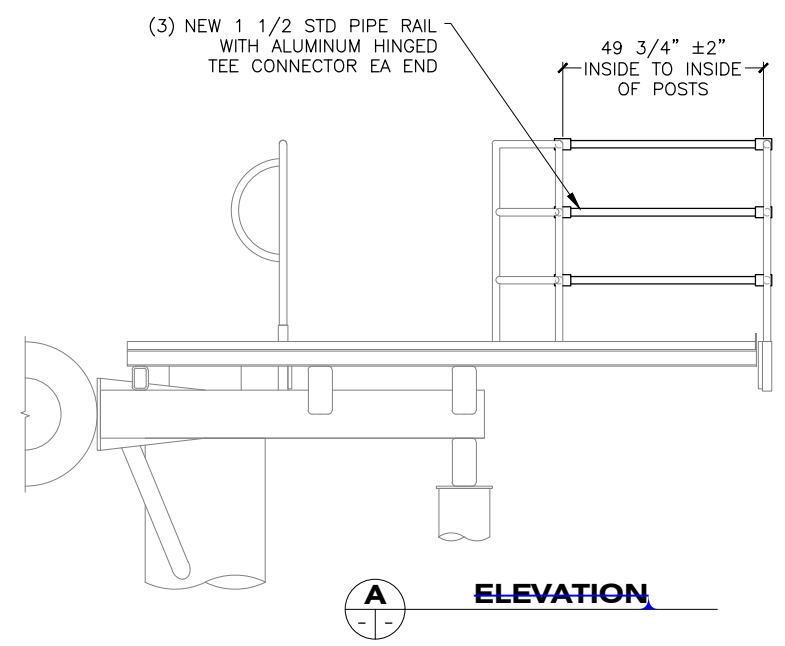
PLAN



CONTROL PANEL MOD
APRON HYDRAULIC ELECTRICAL PANEL



RAILING REPAIR
BRIDGE PEDESTRIAN RAIL
EAST SIDE OF APRON



ELEVATION



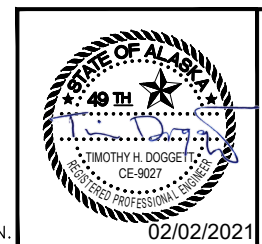
VIEW OF RAIL OPENING

RAILING REPAIR
DOLPHIN E2



ADD END CLAMP AND REPAIR TENSION WIRE

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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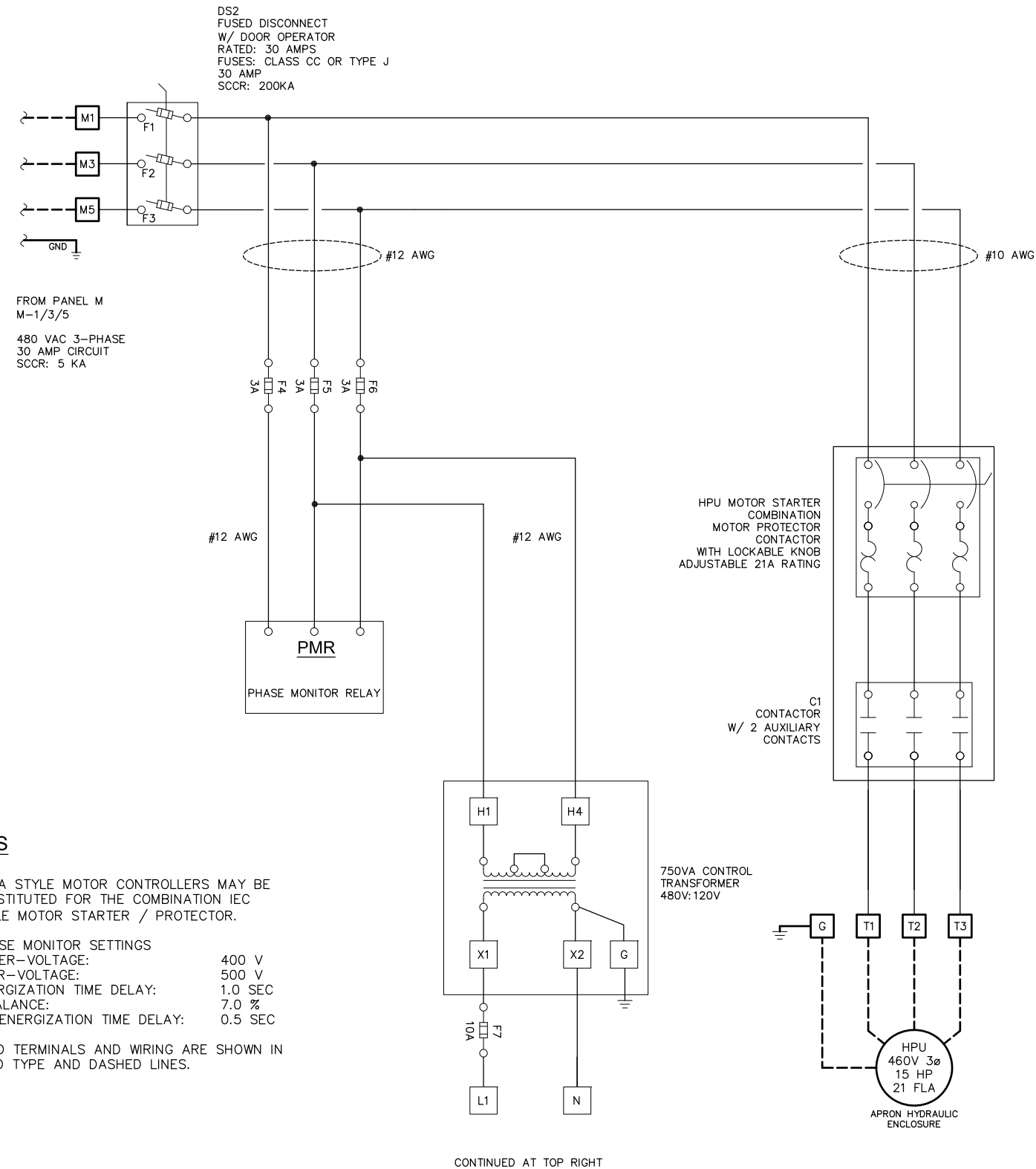
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

MISCELLANEOUS REPAIRS
 DOLPHIN E2 & BRIDGE PED RAIL
 APRON CONTROL MOD

HP 10/01/2024

FILE: \\gpc\shared\Map\217 DOT_AMHS\217-12 AMHS Gustavus Bridge\Drawings\10 - Master\2 & H\217\24 - ELECTRICAL CONTROLS APRON CONTROLS CONTROL PANEL SCHEMATIC.dwg DATE: 2/8/2019 10:00 LAYOUT: 724 CHECKED: GSS DESIGNED: BUD/TCO DRAFTED: BUD/TCO

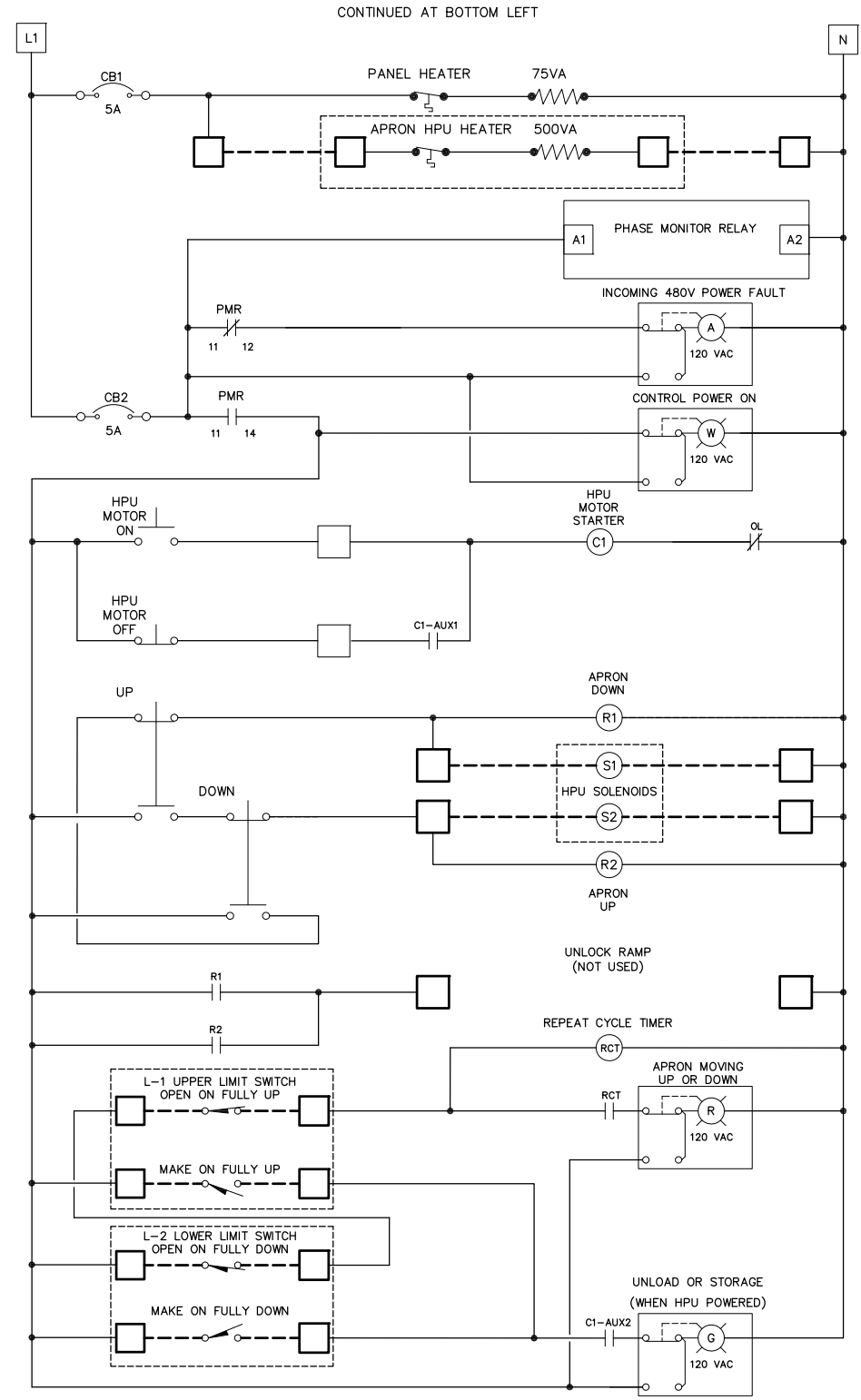
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	68128/0003182	2019	724	145



NOTES

- NEMA STYLE MOTOR CONTROLLERS MAY BE SUBSTITUTED FOR THE COMBINATION IEC STYLE MOTOR STARTER / PROTECTOR.
- PHASE MONITOR SETTINGS
 UNDER-VOLTAGE: 400 V
 OVER-VOLTAGE: 500 V
 ENERGIZATION TIME DELAY: 1.0 SEC
 IMBALANCE: 7.0 %
 DE-ENERGIZATION TIME DELAY: 0.5 SEC
- FIELD TERMINALS AND WIRING ARE SHOWN IN BOLD TYPE AND DASHED LINES.

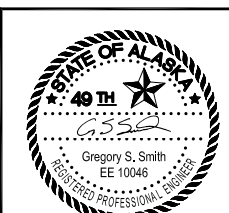
1 APRON CONTROL PANEL SCHEMATIC
480V 3-LINE



2 APRON CONTROL PANEL SCHEMATIC
120V CONTROL

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

PLANS DEVELOPED BY:
 BOREAL CONTROLS INC.
 3100 CHANNEL DRIVE,
 SUITE 101
 JUNEAU, ALASKA 99801
 907-586-8367
 CERTIFICATE OF
 AUTHORIZATION NUMBER
 271837

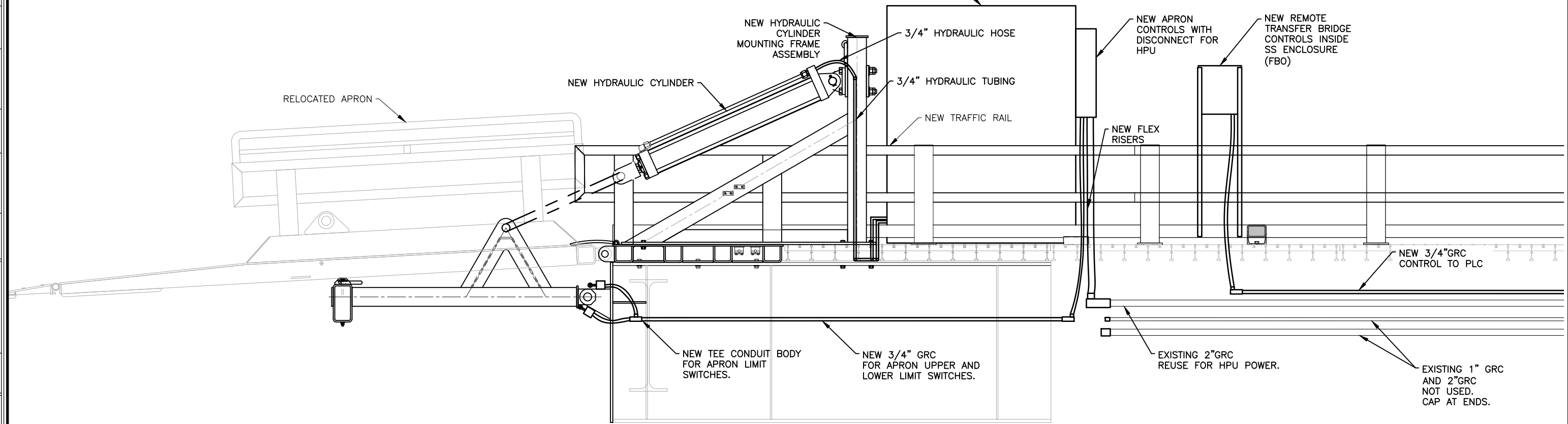


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS
 ELECTRICAL CONTROLS
 APRON CONTROLS
 CONTROL PANEL SCHEMATIC

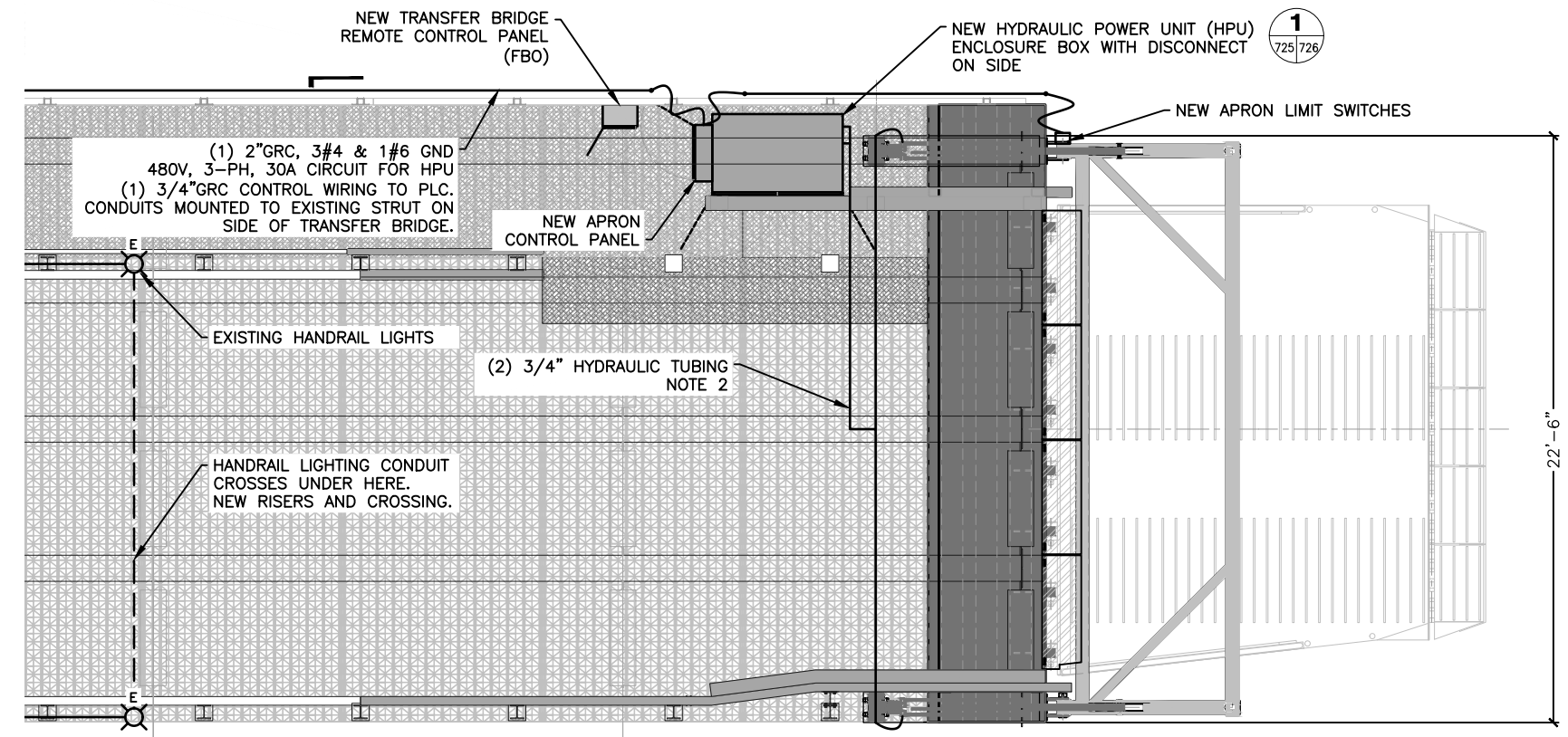
HP-10/01/2024

FILE: G:\us\68128\WF\PLANSET\725 - HYDRAULIC CONTROLS APRON PLAN AND ELEVATION.dwg DATE: 3/18/2019 14:14 LAYOUT: 725 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	725	145



A ELEVATION
SEAWARD BRIDGE END & APRON

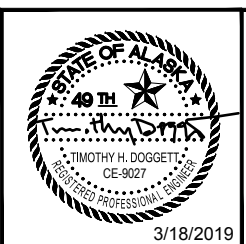


PLAN - MODIFICATIONS
SEAWARD BRIDGE END

HYDRAULIC NOTES:

1. HYDRAULIC CYLINDER: BODY AND CLEVIS ENDS TO BE COATED WITH MARINE PAINT COATINGS PER SPECIFICATION 513, SYSTEM 5.
2. PROVIDE HYDRAULIC TUBING AND HOSES TO CONNECT HPU TO APRON HYDRAULIC CYLINDERS. ROUTE TUBING FROM HPU TO CENTER OF BRIDGE AND ENSURE THAT TUBING RUNS ARE OF EQUAL LENGTH TO EACH CYLINDER.
3. HYDRAULIC TUBING SHALL BE 3/4" A269 SEAMLESS 316L STAINLESS STEEL.
4. HYDRAULIC HOSES SHALL BE 3/4". ALL HOSE ASSEMBLIES SHALL USE JIC SWIVEL FITTINGS OR 4-BOLT FLANGE HOSE FITTINGS.
5. HYDRAULIC FITTINGS SHALL BE 316L STAINLESS STEEL.
6. ALL HYDRAULIC PRESSURE COMPONENTS SHALL BE RATED FOR 3000 PSIG MINIMUM.

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

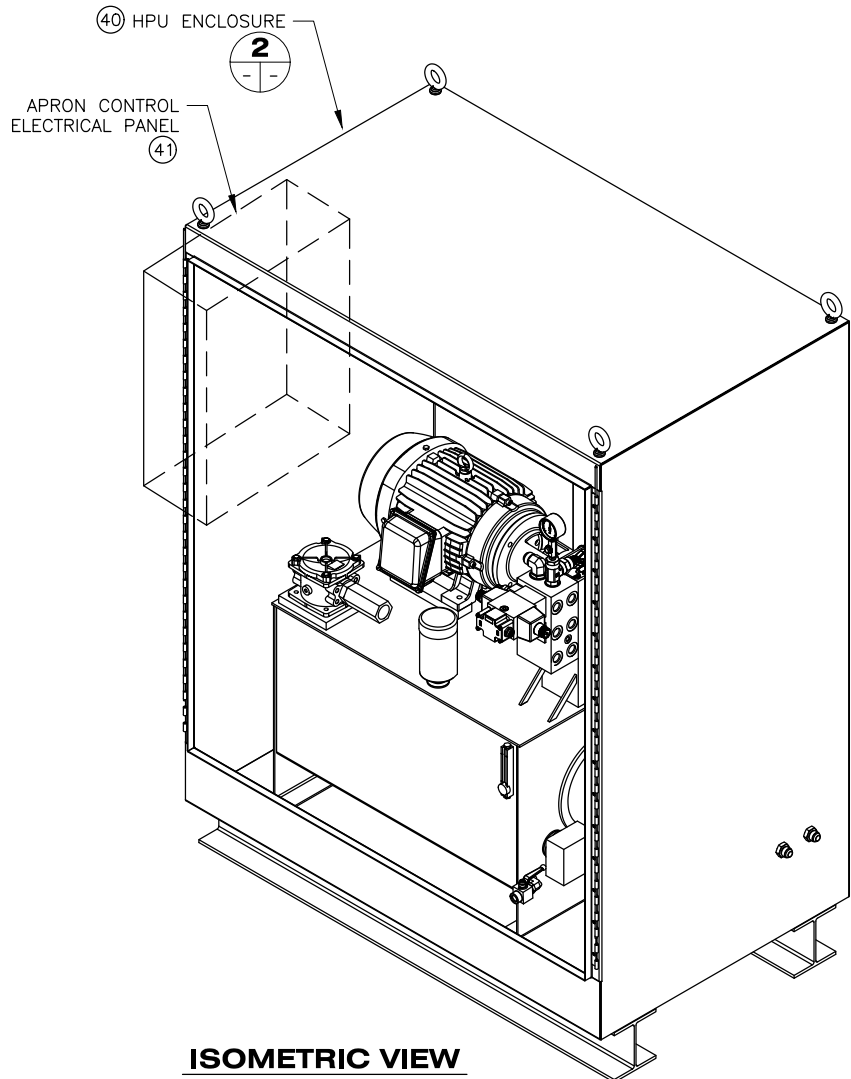


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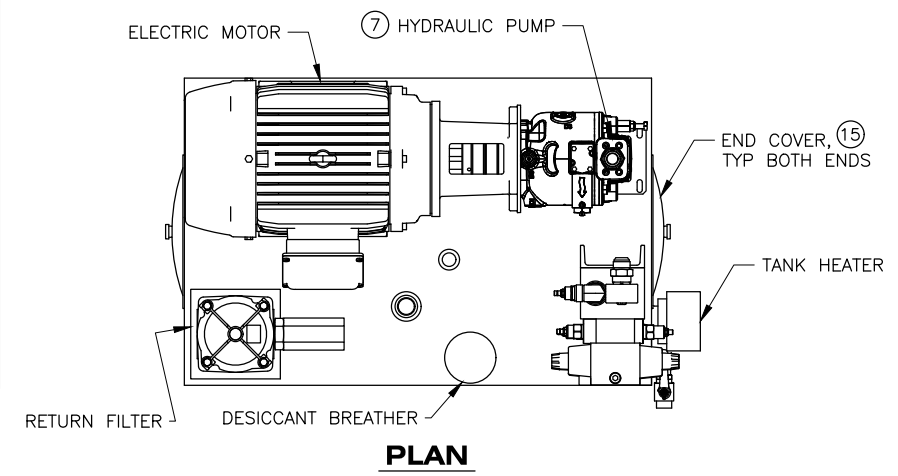
GUSTAVUS FERRY TERMINAL IMPROVEMENTS
HYDRAULIC CONTROLS APRON CONTROLS PLAN AND ELEVATION

HH 10/01/2024

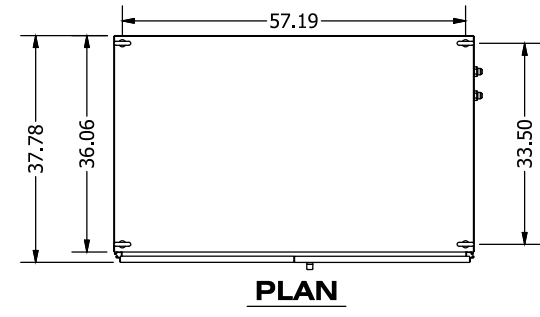
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	726	145



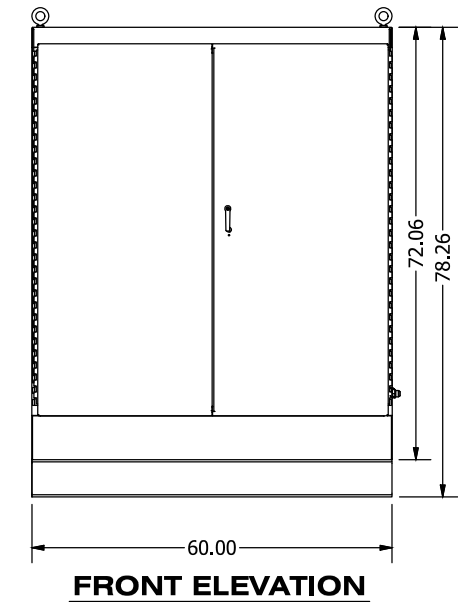
**ISOMETRIC VIEW
(HPU IN ENCLOSURE)**



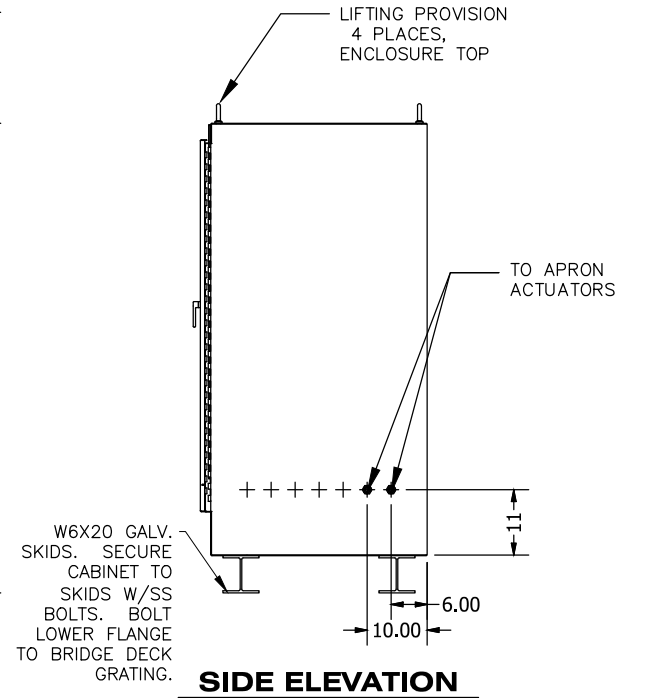
PLAN



PLAN

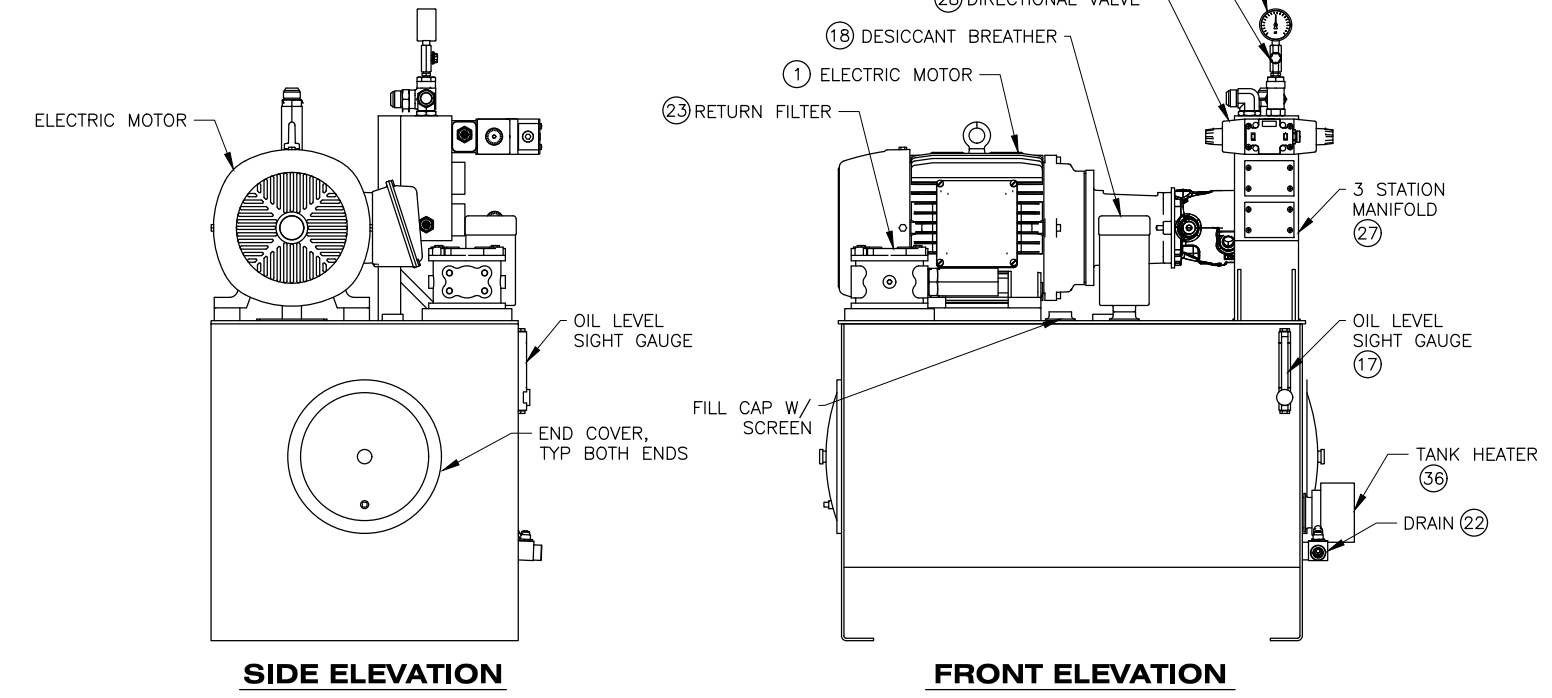


FRONT ELEVATION



SIDE ELEVATION

**② HPU ENCLOSURE LAYOUT
72" H X 60" W X 36" D WITH 6" H BEAM FOOTING**



SIDE ELEVATION

FRONT ELEVATION

① HYDRAULIC POWER UNIT & CONTROLS

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GUSTAVUS FERRY TERMINAL
IMPROVEMENTS

HYDRAULIC CONTROLS
APRON CONTROL HPU
ENCLOSURE LAYOUT

3/18/2019

HP 10/01/2024

FILE: q:\us\68128\WF\PLANSET\726 - HYDRAULIC CONTROLS APRON HPU ENCLOSURE LAYOUT.dwg DATE: 3/18/2019 14:14 LAYOUT: 726 DESIGNED: STAFF CHECKED: STAFF DRAFTED: STAFF

FILE q:\ous\68128\WF\PLANSET\727 - HYDRAULIC CONTROLS - APRON CATCHER MATERIAL LIST.dwg DATE 3/18/2019 14:15 LAYOUT 727 DESIGNED STAFF CHECKED STAFF DRAFTED STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	727	145

LIST OF MATERIALS			
APRON HPU			
ITEM	DESCRIPTION	MANUFACTURER / PART NO.	QTY
1	ELECTRIC MOTOR, 15 HP / 1800 RPM / TEFC / 254 / 60 HZ / 3PH 230 / 460V		1
2	ELECTRIC MOTOR MOUNTING PADS 316 SS (FOR ITEM #1)		4
3	COUPLING HALF, 1" x 1/4" (PUMP)		1
4	COUPLING HALF, 1 5/8" x 3/8" (MOTOR)		1
5	COUPLING INSERT, THERMOPLASTIC ELASTOMER MAT'L		1
6	PUMP / MOTOR ADAPTER (STEEL)		1
7	AXIAL PISTON PUMP, 45CC PRESS.COMP NOMINAL PRESSURE 4000 PSI / PEAK 5100 PSI		1
8	CHECK VALVE, SAE-16 7 PSI		1
9	PRESSURE GAUGE, 0-3000 PSI, 2 1/2" DIA		1
10	GAUGE SNUBBER		1
11			
12	RELIEF VALVE	SUN / RPGC-LAN	1
13			
14	RESEVOIR, JIC 60 GALLON 316SS (PER LAYOUT DWG)		1
15	END COVERS, STAINLESS STEEL		2
16	END COVER MOUNTING KIT		2
17	SIGHT GAUGE W/ DIAL THERMOMETER 5" B.C.		1
18	DESICCANT BREATHER, DISPOSABLE 3 MICRON ABSOLUTE		1
19	BREATHER MOUNTING ADAPTER		1
20			
21	SUCTION FLANGE KIT 1-1/2"		1
22	D-05 BALL VALVE, 1/2" SAE W/ PLUG		1
23	RETURN FILTER, IN TANK 10 MICRON B-VALUE>200		1
24	FILTER ELEMENT		1
25	RETURN CHECK VALVE, 7PSI -20SAE		1
26	WELD RING, SS (RETURN FILTER)		1
27	3-STATION MANIFOLD, WITH RELIEF		1
28	DIRECTIONAL VALVE, 4/3 120V		1
29	VALVE BODY, D-05 SANDWICH, DUAL CART		1
30	FLOW CONTROL VALVE		3
31	D-05 COVER PLATE		2
32			
33			
34			
35			
36	TANK HEATER, 0.5 KW 120V W/THERMOSTAT NEMA 12 ENCLOSURE		1
37			
38			
39			
40	NEMA 4X SS ENCLOSURE 72"x60"x36"		1
41	NEMA 4X SS ELECTRICAL ENCLOSURE W/ STARTER DISCONNECT		1
42			
APRON - SHIP LOOSE COMPONENTS			
1A	APRON ACTUATOR CYLINDER 7" BORE x 54" STROKE, 78" ROD END TO CLEVIS MOUNT		
2A	ROD END WITH SPHERICAL BEARING		
3A	ROD END PIN		
4A	CLEVIS BRACKET WITH GREASE FITTINGS		
5A	C-BALANCE VALVE	SUN / CBEA-LIN	
SAFETY CATCHER HPU			
1	LITTLE CHAMP HPU, 3/4 HP, 5 GALLON W/ RETURN FILTER, D-03 MANIFOLD, MODIFIED	CONTINENTAL HYDRAULICS, G0.6B36-007T-5V-V1R-MOD	1
2	CUSTOM MANIFOLD, 6061-T6		2
3	NEEDLE VALVE, FINE ADJUSTMENT		1
4	CHECK VALVE		1
5	2/3 SEATED DIRECTIONAL POPPET VALVE		1
6	IMMERSION HEATER, 250 WATTS, 120V		1
7	DUAL OIL LEVEL SWITCH, TEMP SWITCH IN TANK		1
8	DRIP TRAY W/ FRAME		1
9			
10	BALL VALVE, -12 SAE		1
11	HAND PUMP, 0.45 CU-IN PER STROKE, 10-2 CAVITY		1
12			
13			

Hydraulic Power Units (HPU) for N.I.C. Safety Catcher is deleted per CO #5



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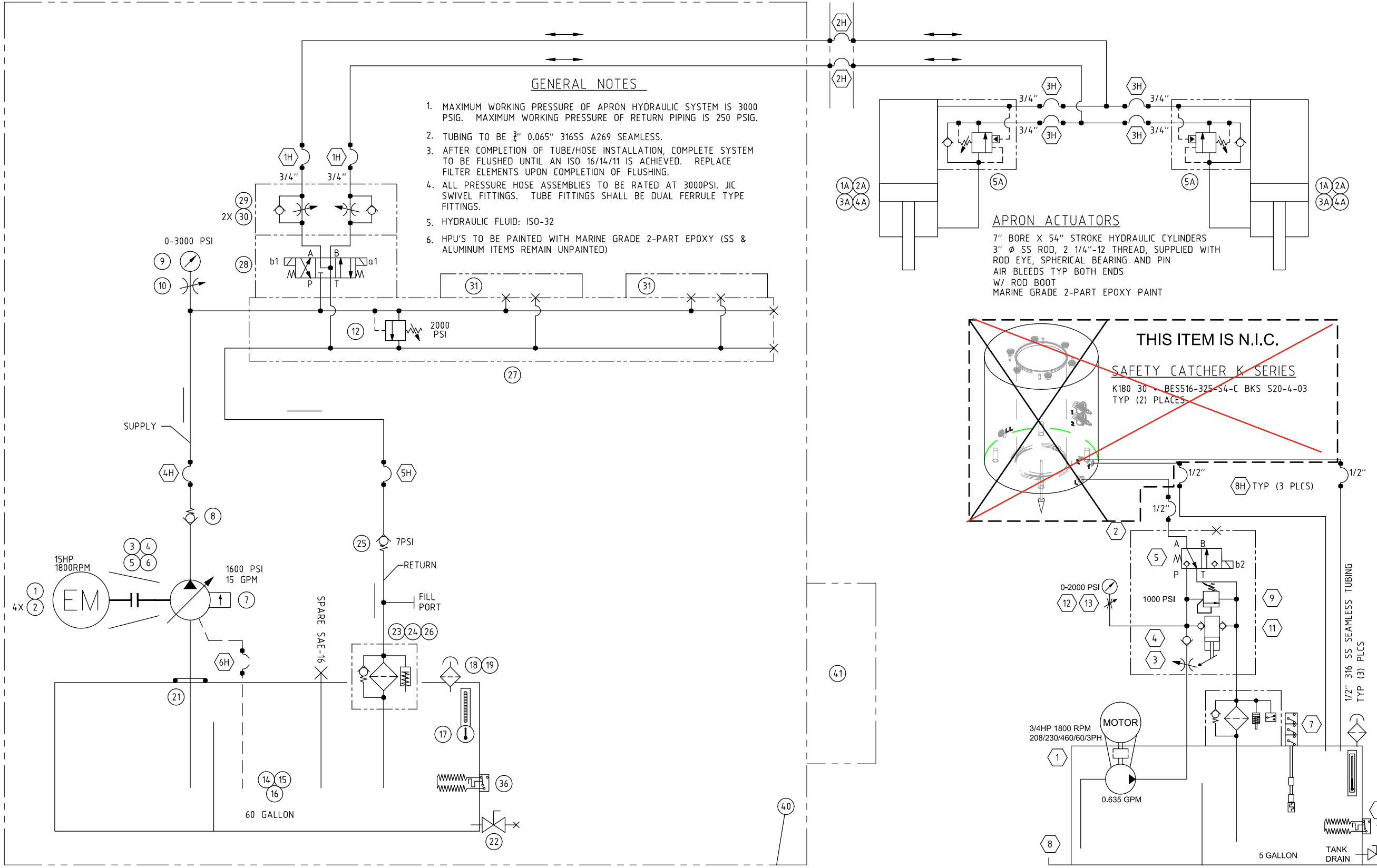
GUSTAVUS FERRY TERMINAL IMPROVEMENTS

HYDRAULIC CONTROLS MATERIAL LIST

HH 10/01/2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681280000/0003182	2019	728	145

FILE: G:\us\68128\WF\PLANSET\728 - HYDRAULIC CONTROLS APRON CATCHER SCHEMATIC.dwg
 DATE: 3/18/2019 14:15 LAYOUT: 728
 DESIGNED: STAFF
 CHECKED: STAFF
 DRAFTED: STAFF



GENERAL NOTES

1. MAXIMUM WORKING PRESSURE OF APRON HYDRAULIC SYSTEM IS 3000 PSIG. MAXIMUM WORKING PRESSURE OF RETURN PIPING IS 250 PSIG.
2. TUBING TO BE 3/4" 0.065" 316SS A269 SEAMLESS.
3. AFTER COMPLETION OF TUBE/HOSE INSTALLATION, COMPLETE SYSTEM TO BE FLUSHED UNTIL AN ISO 16/14/11 IS ACHIEVED. REPLACE FILTER ELEMENTS UPON COMPLETION OF FLUSHING.
4. ALL PRESSURE HOSE ASSEMBLIES TO BE RATED AT 3000PSI. JIC SWIVEL FITTINGS. TUBE FITTINGS SHALL BE DUAL FERRULE TYPE FITTINGS.
5. HYDRAULIC FLUID: ISO-32
6. HPU'S TO BE PAINTED WITH MARINE GRADE 2-PART EPOXY (SS & ALUMINUM ITEMS REMAIN UNPAINTED)

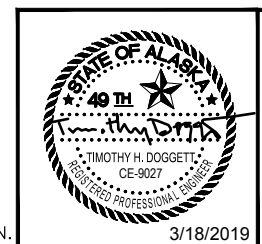
APRON ACTUATORS

7" BORE X 54" STROKE HYDRAULIC CYLINDERS
 3" Ø SS ROD, 2 1/4"-12 THREAD, SUPPLIED WITH
 ROD EYE, SPHERICAL BEARING AND PIN
 AIR BLEEDS TYP BOTH ENDS
 W/ ROD BOOT
 MARINE GRADE 2-PART EPOXY PAINT

THIS ITEM IS N.I.C.

SAFETY CATCHER K SERIES
 K180 30 - BES516-325-34-C BKS S20-4-03
 TYP (2) PLACES

- NOTES:
1. (H) SYMBOL DENOTES HYDRAULIC HOSE
 2. FABRICATE RESERVOIR, BRACKETS & FITTINGGS FROM STAINLESS STEEL.



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GUSTAVUS FERRY TERMINAL
 IMPROVEMENTS

HYDRAULIC CONTROLS
 SCHEMATIC

HH 10/01/2024

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/18/2019