



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

AS-BUILT

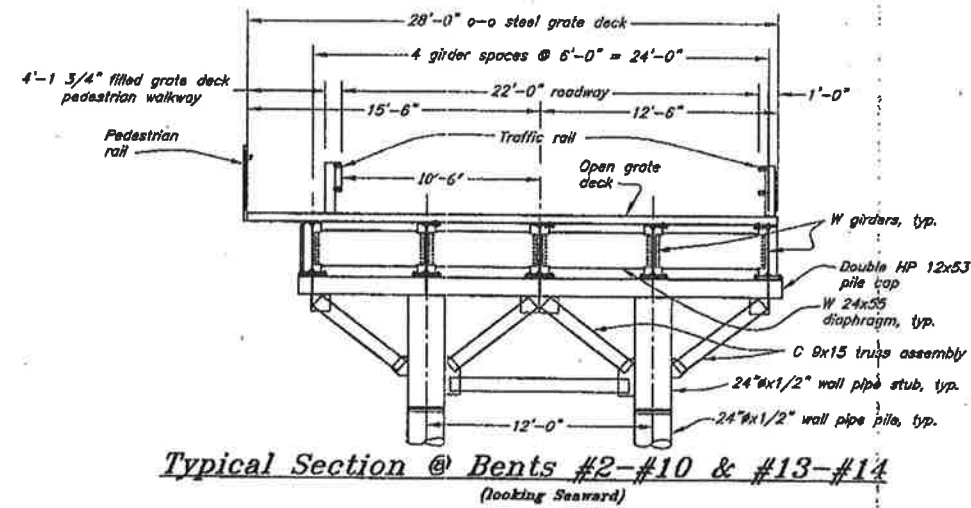
Attachments:

Drawings Added by Change Order

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

PE Stan Smith Date 8-21-12

C.O. #1, Change Bents #1 through #14 to 2-24" pile bents



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

PE John I. Scott Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott CHECKED BY: B. Spivey DRAWING BY: C. Funder, W. Hickey PATH: C:\GUS DOCK 6750012 PILE TYP SECTION.DWG TAB: Tue 02/Jan/09 10:15AM		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHWEST REGION Gustavus Causeway Replacement APPROACH TYPICAL @ 2 Pile Bents 06-02-09	
PROJECT DESIGNATION: BR-0003(53)/67599		YEAR: 2008	SHEET NO.: 138

~~Attach #1~~

[illegible]

This plan view illustrates the layout for the approach and transfer bridge at the Bant #16 Abutment. The diagram shows the alignment of the bridge piers (14, 15, 16, 17) and the various layout lines used for construction. Key features include:

- Approach Layout Line:** Indicated by a dashed line with arrows pointing towards the bridge piers.
- Dock Layout Line:** A dashed line located to the left of the approach.
- Transfer Br Layout Line:** A dashed line indicating the layout for the transfer bridge.
- CL Pile:** Centerline of the main bridge piers.
- CL Transfer Br. Abutment Bearings:** Centerline of the transfer bridge abutment bearings.
- Dimensions:** Various dimensions are provided for the layout, including pier spacing (e.g., 114'-0 11/16", 161'-2 1/8"), pier width (e.g., 18" x 1 1/2" wall pile), and offset distances (e.g., 10'-0 21/32", 10'-49' 43").
- Angles:** An angle of 10° is noted near pier 15.
- Notes:** A note specifies "18" x 1 1/2" wall pile @ 1:3 batter typ." near pier 16.

Technical drawings illustrating the details of a pile tip and core stopper.

Left Drawing (Cross-section):

- Shows a circular pile cross-section.
- Labels include: "2" vent", "1/3 O.D.", "1/2 typ", "1/2 typ", "1/2 typ", "1" i. Core Stopper Plate", "1" x 12" high Stiffener Plates", "As Req'd", and "Pipe Pile".

Right Drawing (Longitudinal Section):

- Shows the pile tip and core stopper assembly.
- Labels include: "Bottom 10 Lf. of Pipe piles - Min", "Bottom 40 Lf. of Pipe piles - Test", "Reinforced Tip - All Piles (APF Interior type shown)", "Pipe Pile", "1'-3" Pile Splice to top of Core Stopper Plate", "Core Stopper Plate", "1'-0" Stiffener Plates", and "1" Pile Splice".

Pile Tip & Core Stopper Details

STRUCTURE & PILE LOCATION	Pile/rod	ORIENTATION	No. of PILES	DIA. Inches	DESIGN CAPACITY (TONS)		ELEVATIONS			EST. LGT.	EST. LGT.
					BEARING	UPLIFT	~ O.G.	CUT-OFF	ESTIMATED TIP		
Approach Abut. Bent #1	✓	None	N/A	N/A	-	-	-	-	-	24' 9"	18' 6"
Approach Bent #2	Y	Vertical	2	24	75	-	1.3	14.04	-67	204	-
Approach Bent #3	Y	Vertical	2	24	75	-	8	14.04	-92	214	-
Approach Bent #4	Y	Vertical	2	24	75	-	7	14.04	-93	215	-
Approach Bent #5	Y	Vertical	2	24	75	-	5.5	14.04	-94	217	-
Approach Bent #6	Y	Vertical	2	24	75	-	4.5	14.04	-95	220	-
Approach Bent #7	Y	Vertical	2	24	75	-	3.5	14.04	-96	221	-
Approach Bent #8	Y	Vertical	2	24	75	-	2.7	14.04	-97	223	-
Approach Bent #9	Y	Vertical	2	24	75	-	2.3	14.04	-98	225	-
Approach Bent #10	Y	Vertical	2	24	75	-	1.5	14.04	-99	227	-
Approach Abut. Bent #11	✓	None	N/A	N/A	-	-	-	-	-	-	-
Approach Abut. Bent #12	✓	None	N/A	N/A	-	-	-	-	-	-	-
Approach Bent #13	Y	Vertical	2	24	75	-	-2.5	14.04	-103	235	-
Approach Bent #14	Y	Vertical	2	24	75	-	-3.5	14.04	-104	237	-
Approach Transition Bent #15	Y	Vertical	3	24	50	-	-4.5	14.04	-105	359	-
Approach Transition Bent #16	Y	Vertical	5	24	50	-	-5	14.04	-105	589	-
		N/Bolter 1:3	2	18	50	50	-4.5	21.04	-105	-	267
Approach Transition Bent #17	Y	Vertical	3	24	50	-	-15	14.04	-115	389	-
Transfer Bridge Abutment	Y	Vertical	2	18	50	-	-9	18.61	-105	-	243
Abut Transverse Batters	Y	Bolter 1:3	2	18	50	50	-5	18.65	-105	-	262
Abut. Longitudinal Batters	Y	Bolter 1:3	2	18	50	50	-10	19.85	-110	-	273
									TOTAL BASIC Fum.	3,784 LF	1,045 LF
									TOTAL BASIC Driven	33 Each	8 Each

Note:

1. All 18" piles 0.5" wall thickness and all 24" piles are 0.469" wall all piles have reinforced tips.
2. Approach Batter piles driven open ended
3. Approach & Tr. Br. Abutment Vertical piles driven with plugged bottom section, see Detail this sheet
4. Tr. Br. Abutment Batter piles driven with plugged bottom section, see Detail this sheet
5. For purposes of Dynamic Pile Driving Analysis Ultimate Capacity = Design Capacity x 2.25

PE Stu Smith Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS															
DESIGNED BY: <u>A. Scott</u>  CHECKED BY: <u>B. Swoboda</u> DRAWN BY: <u>C. Patten, M. Heston</u>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION Gustavus Causeway Replacement Approach & Approach Transition Pile Layout AP02 Revised 06-02-09														
PATH: C:\GUS DOCK 67599\REVISED PILE LAYOUT 3 PILE BENTS.DWG TAB: <u>Two, 06/Jun/09 10:10AM</u>															
JISCOIT															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 50%;">REVISIONS</th> <th style="width: 10%;">PROJECT DESIGNATION</th> <th style="width: 10%;">YEAR</th> <th style="width: 10%;">SHEET NO.</th> <th style="width: 10%;">TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td>BR-0003(53)/67599</td> <td>2008</td> <td>12</td> <td>138</td> </tr> </tbody> </table>		NO.	DATE	REVISIONS	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS				BR-0003(53)/67599	2008	12	138
NO.	DATE	REVISIONS	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS									
			BR-0003(53)/67599	2008	12	138									

~~Attach #2~~

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

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE Stu Miller Date 8-21-17

'Temporary' Dolphin Layout

Layout line = CL pile cap
 Begin approach = back of backwall
 Elev. = +25.0

Section A
3 - Pile Dolphin
Batter Pile Template Details

Dolphin "A" & "B"

Plan
 DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
 Gustavus Causeway Replacement
Temporary Dolphin Layout
 Dolphins A & B

CHIEF ENGINEER: B. Sawicki
 DRAWN BY: C. Fumey, R. Hedges
 PATH: C:\GUS DOCK 67599\TEMPORARY BARGE LANDING DOLPHINS 1-21-09.DWG
 TAB: Wed, 22/Apr/09 04:44PM JTS/CTT

Tidal Data
 HTL = +20.0
 MHW = +13.7
 MLLW = 0.0
 ELW (Est.) = -5.0

NO. DATE DESCRIPTION YEAR SHEET NO. TOTAL SHEETS
 BR-0003(53)/67599 2008 04 13

~~IWA #2 - Attach #1~~

4

C.O. * 3, New Item 504(12) Barge Landing Dolphin

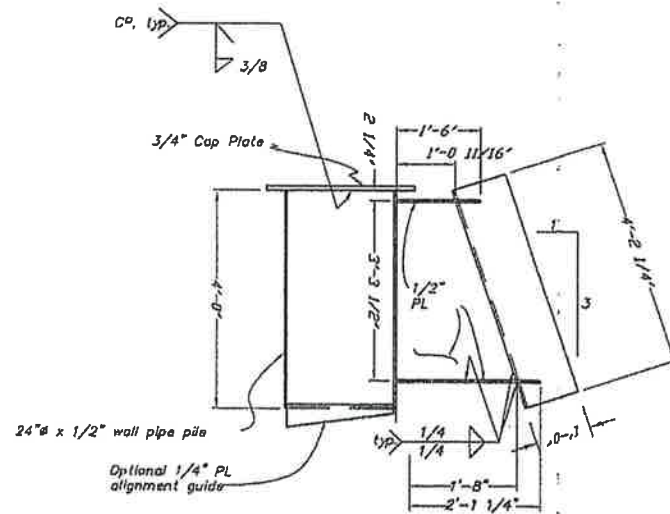
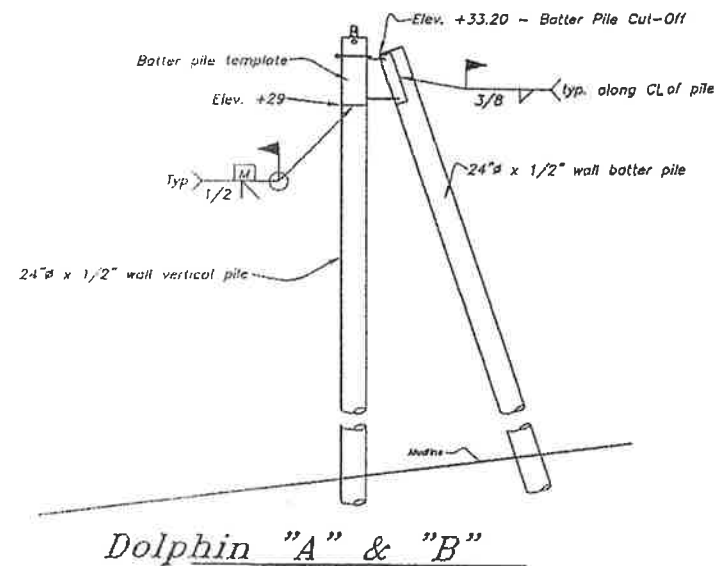
PILE TABLE - Temporary Dolphins A & B									
STRUCTURE & Type	ORIENTATION	No. of PILES	B/LA Inches	DESIGN CAPACITY (TONS) BEARING	DESIGN CAPACITY (TONS) UPLIFT	ELEVATIONS - D.C.	ELEVATIONS CUT-OFF	ESTIMATED TIP	EST. LGT. 24" dia
Dolphin A	Vertical	1	24	125	125	-3	29	-88	117
2-Pre Structure	Ballot	1	24	75	75	-3	332	-95	135
Dolphin B	Vertical	2	24	125	125	-5	29	-90	238
3-Pre Structure	Ballot	4	24	75	75	-5	332	-97	536
1/2" wall thickness and provided with reinforced tips. piles driven open ended								TOTAL Funn. TOTAL Driven	1086 LF 8 Each

Note:

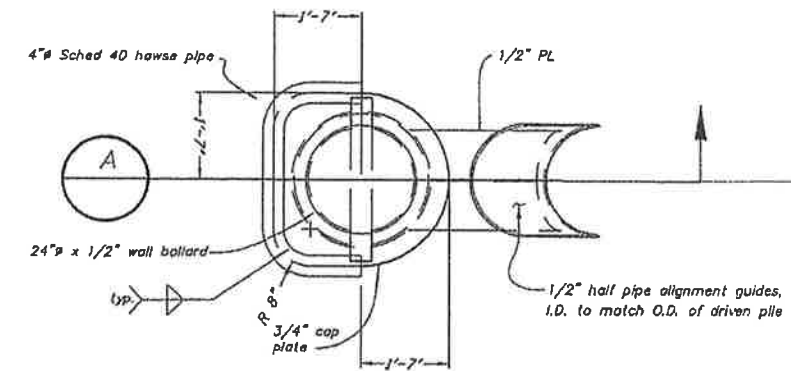
- | | | |
|--|-------|--------|
| 1. All piles 1/2" wall thickness and provided with reinforced tips. | TOTAL | Furn |
| 2. Batter piles driven open ended | TOTAL | Driver |
| 3. Vertical piles driven with plugged bottom section, see Detail M05. | | |
| 4. For purposes of Dynamic Pile Driving Analysis Ultimate Capacity = Design Capacity x 1.5 | | |

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

PE Steve Smith Date 8-21-17



Section 4
2 - Pile Dolphin
Batter Pile Template Details



Plan

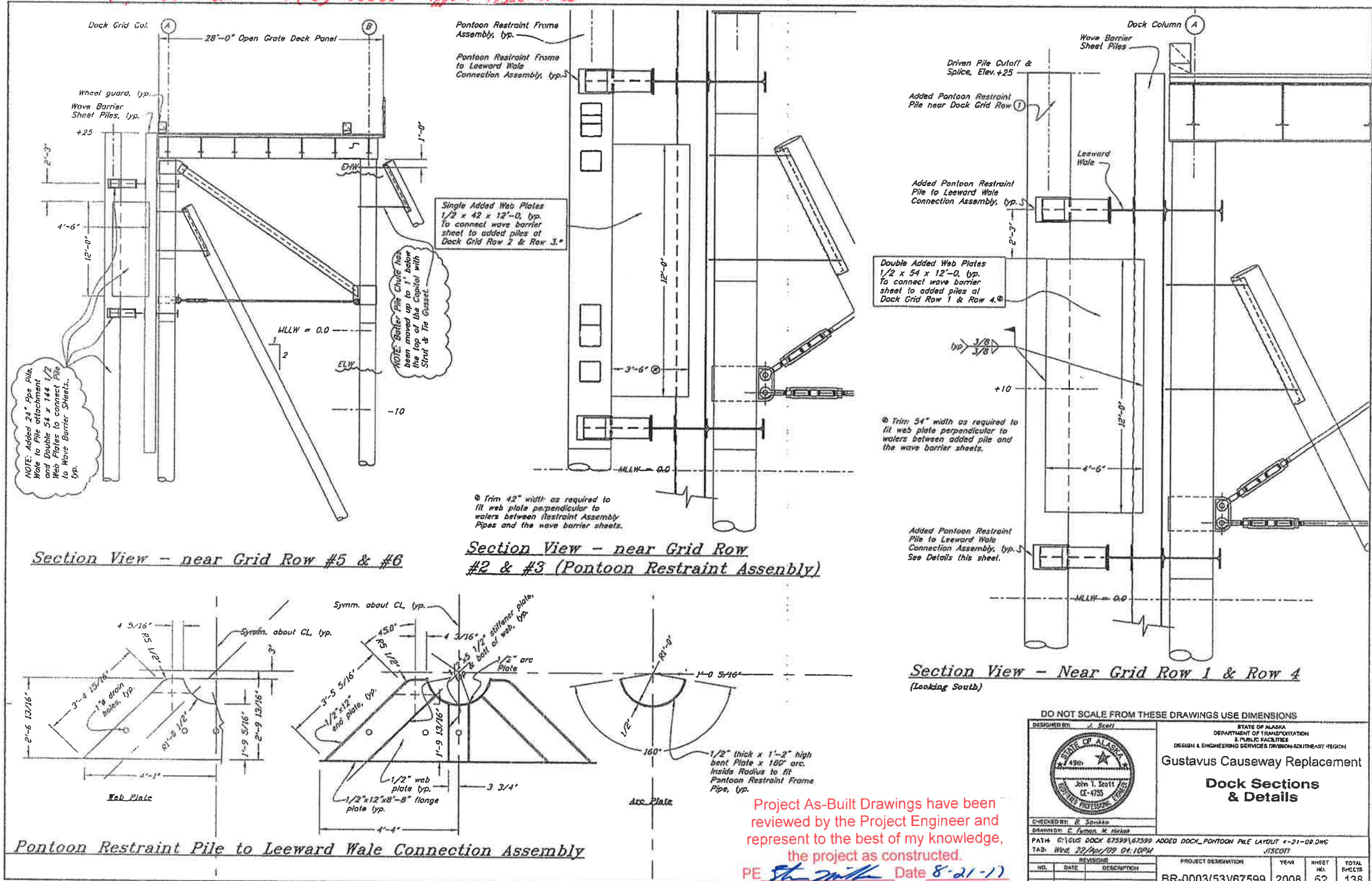
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: <i>J. Scott</i>  CHECKED BY: <i>B. Swink</i> DRAWN BY: <i>C. Farnum, W. Hildek</i>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION					
	Gustavus Causeway Replacement 2 Pile Temporary Dolphin					
PATH: C:\GUS DOCK 67559\TEMPORARY BARGE LANDING DOLPHINS 1-21-08.DWG TAB: 1XG, 22/Apr/09 04:45PM JISCOIT						
NO.	DATE	REVISIONS	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			BR-0003(53)/67599	2008	04	138

~~IWA 2 - Attach #2~~

5

C.O. #4, New Item 504(13) Added Support Assemblies



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

CHECKED BY: B. Santhan

DRAWN BY: C. Fuman, M. Hickey

PATH: C:\GUS DOCK 67599\67599 ADDED DOCK_PONTON PILE LAYOUT 1-21-08.DWG

TAB: Wed, 22/Nov/09 04:10PM

REVISIONS

NO.	DATE	DESCRIPTION
1		

PROJECT DESIGNATION: BR-0003(53)67599

YEAR: 2008

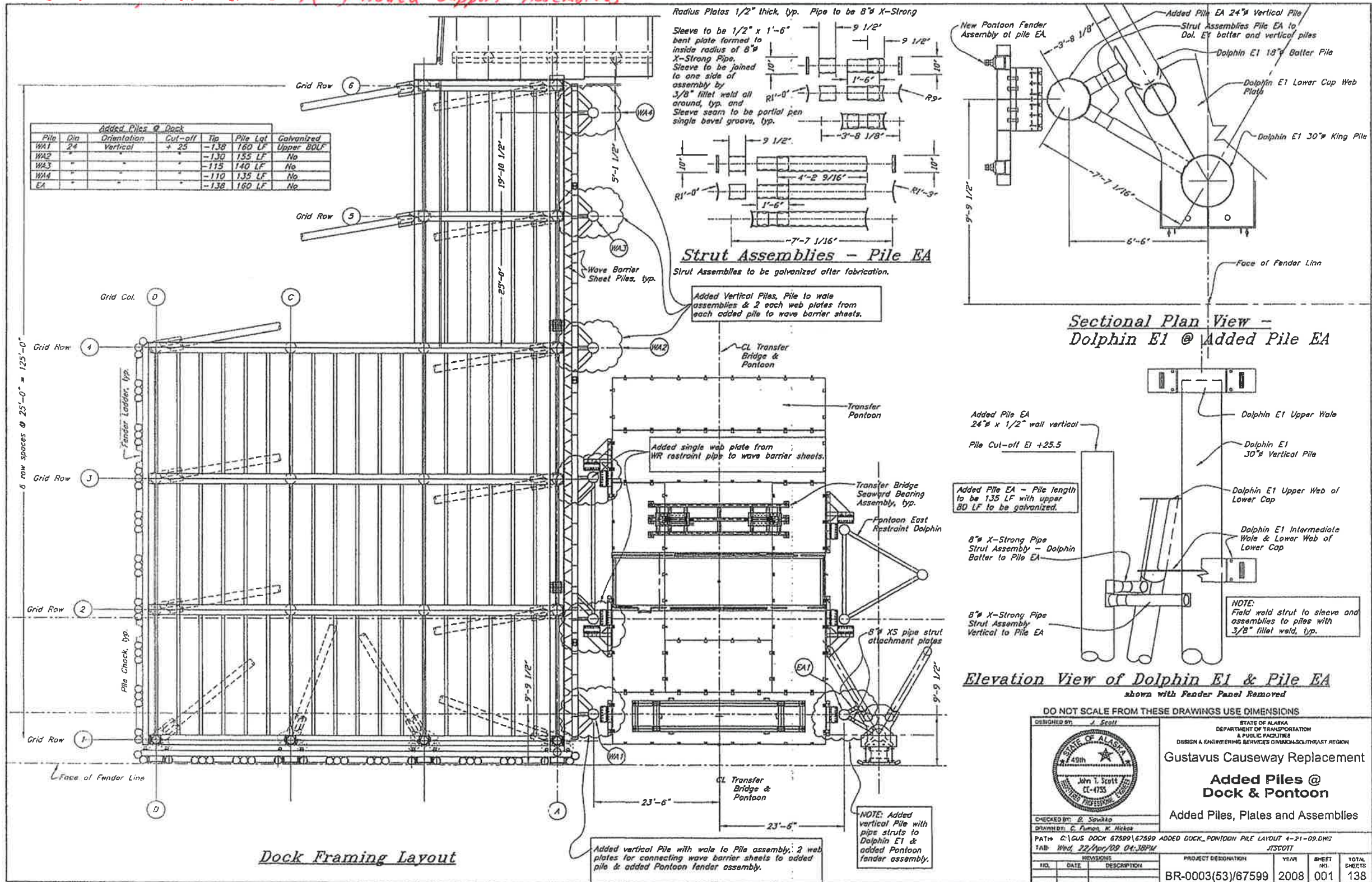
SHEET NO.: 62

TOTAL SHEETS: 138

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-NORTH-EAST REGION
Gustavus Causeway Replacement
Dock Sections
& Details

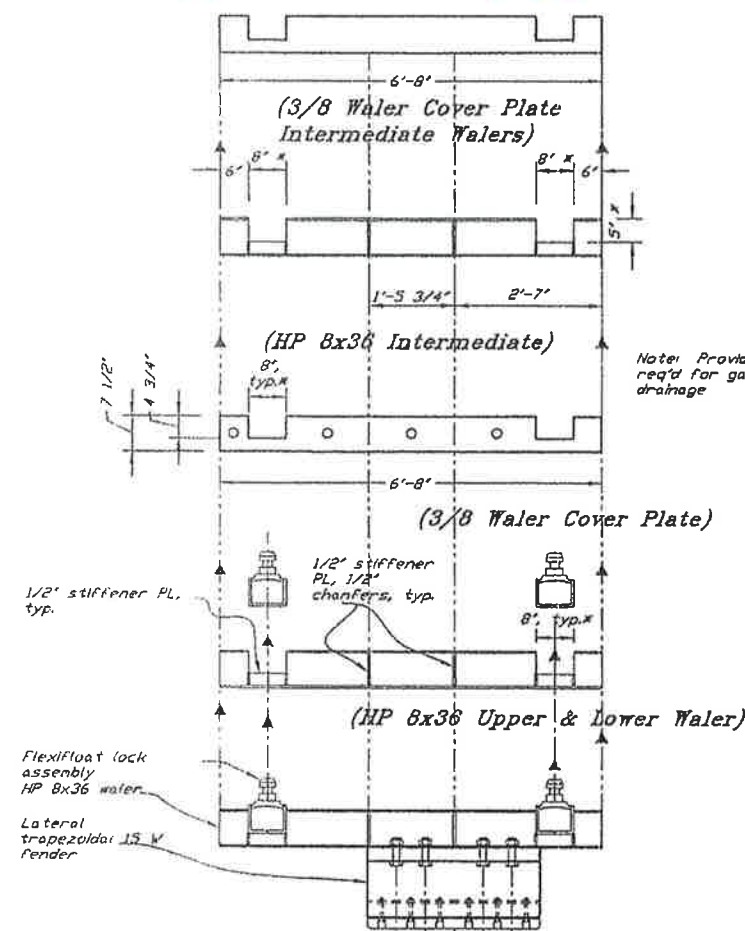
IWA #3, Attach #2

C.O. #4, new item 504(13) Added Support Assemblies

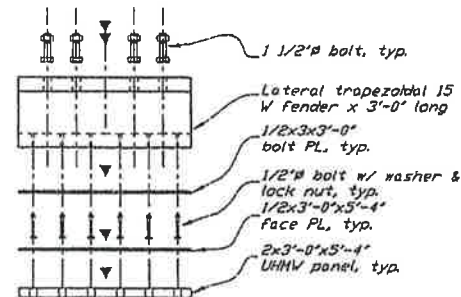


IWA #3 - Attach #1

C.O. #4, New Item 504(13) Added Support Assemblies



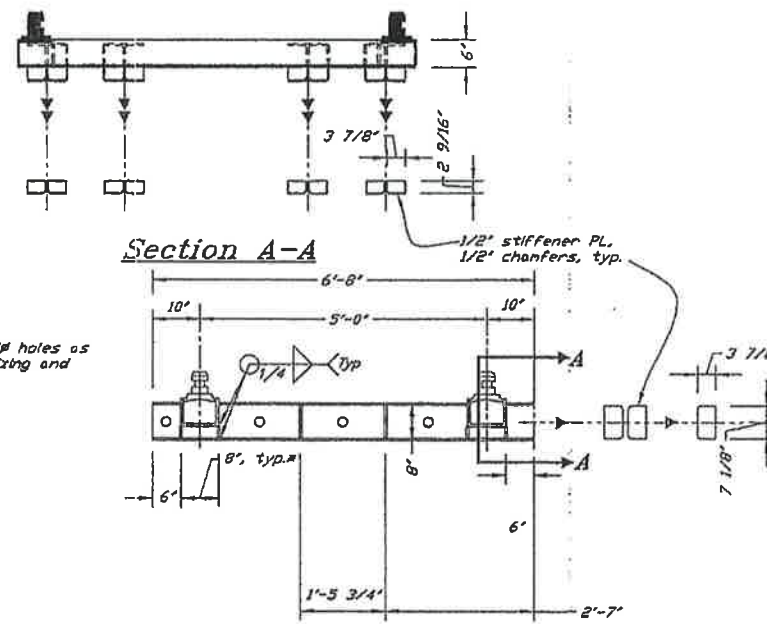
Plan & Exploded Views



(Lateral Fender Assembly)

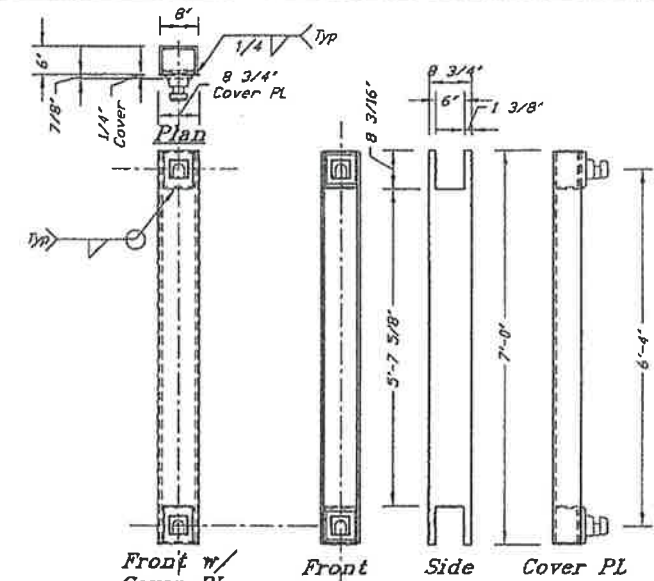
Pontoon Fender Assembly - 2 Required

One @ Pile EA and One @ Pile WA1

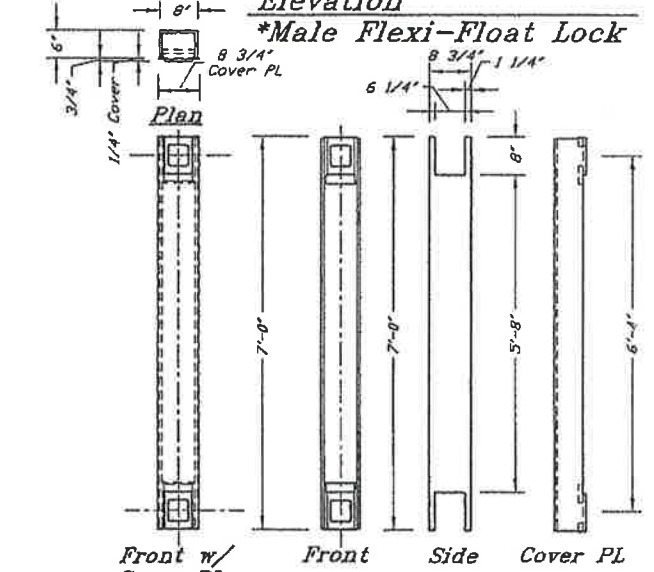


Section A-A
Plan
HP 8X36 Upper & Lower Waler

*Flexi-Float lock assemblies from Robishaw Eng'r, coordinate dimensions with Robishaw.
NOTE:
1. One Assembly has Male and the other has Female Lock Assemblies
2. Assembly for Pile EA shown



Elevation
*Male Flexi-Float Lock



Elevation
*Female Flexi-Float Locks

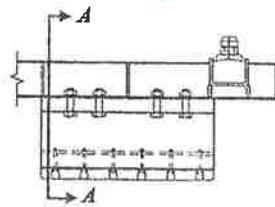
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
CHECKED BY: B. Savitsky		Gustavus Causeway Replacement	
DRAWN BY: C. Finner, M. Nicks		Added Pontoon Restraint Fender Assembly	
PATH: C:\GUS DOCK 67559\67559 ADD DOCK_PONTON PILE LAYOUT 4-21-09.DWG		TOTAL SHEETS: 138	
TAB: Wed. 22/Nov/09 04:09PM		SHEET NO. 52	
REVISIONS		PROJECT DESIGNATION: BR-0003(53)/67599	
NO.	DATE	DESCRIPTION	YEAR

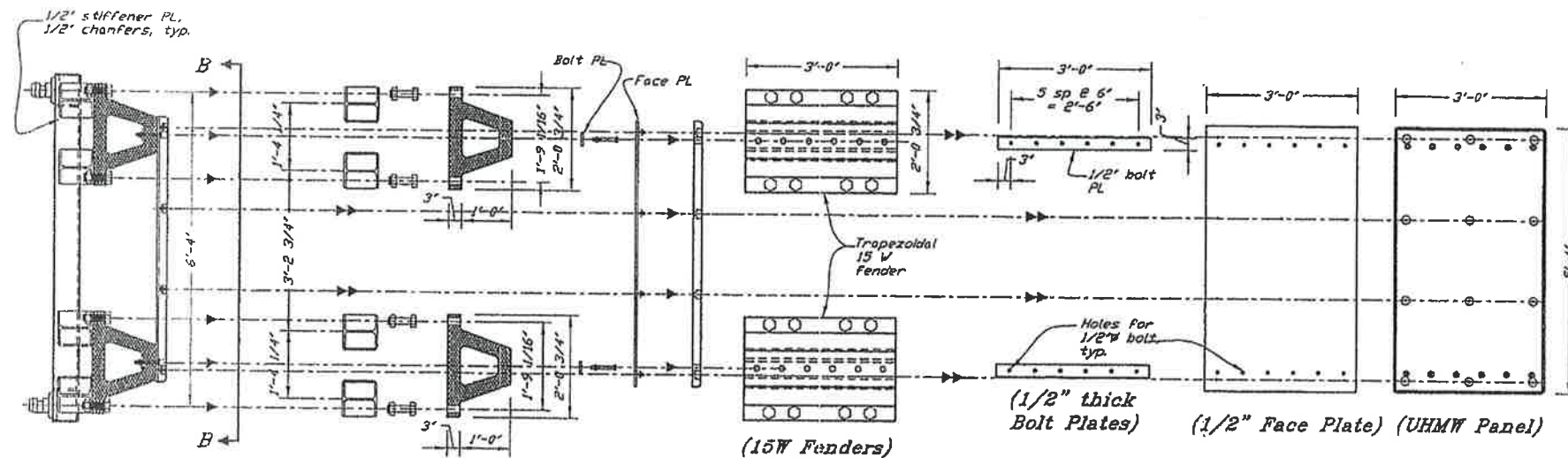
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE John Smith Date 8-21-17

~~IWA 3, Attach #3~~

C.O. #4, New Item 504(13) Added Support Assemblies



Plan
@ Added Pile (EA) Restraint



Section A-A Exploded Section A-A

View B-B

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Shawn M. Miller Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

CHECKED BY: B. Saville

DRAWN BY: C. Fumani, M. Nichols

PATH: C:\GUS DOCK 67599\67599 ADDED DOCK_PONTON PILE LAYOUT 4-21-09.DWG

TAB: Wed, 22/Apr/09 04:07PM

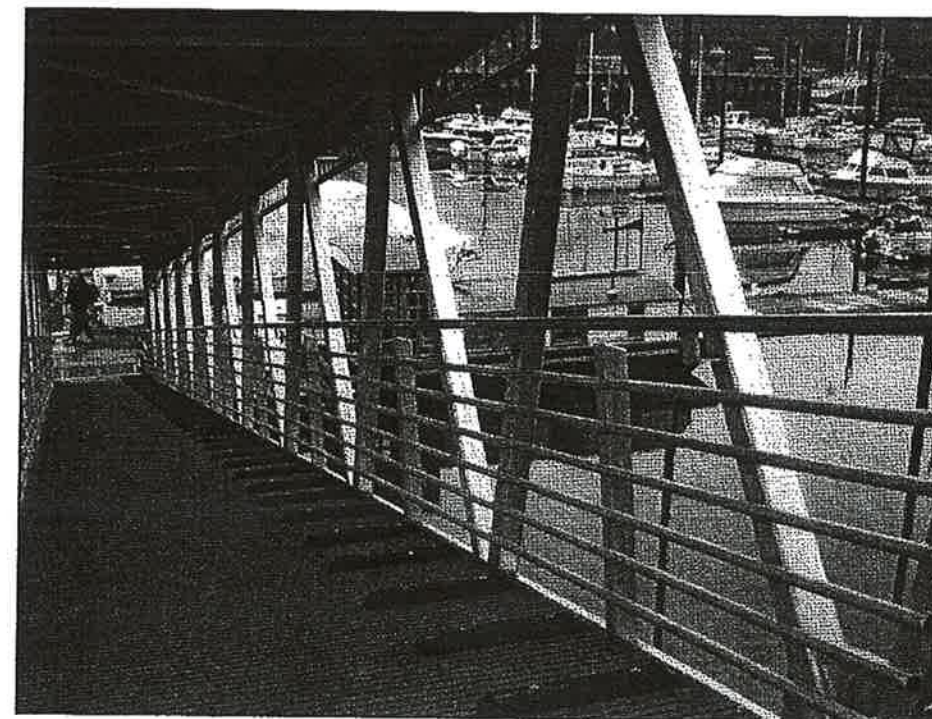
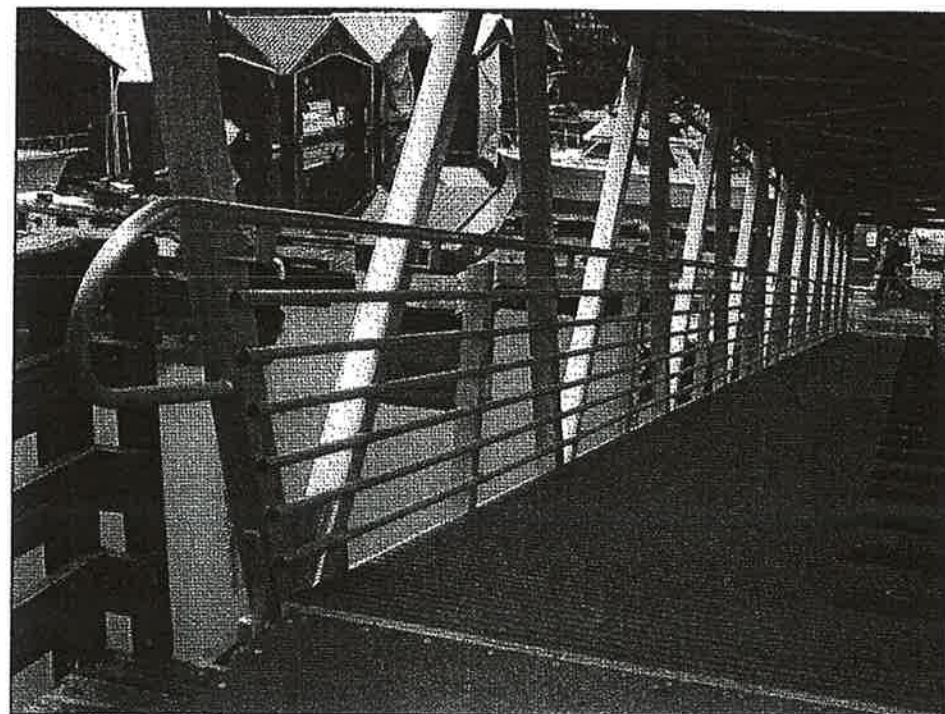
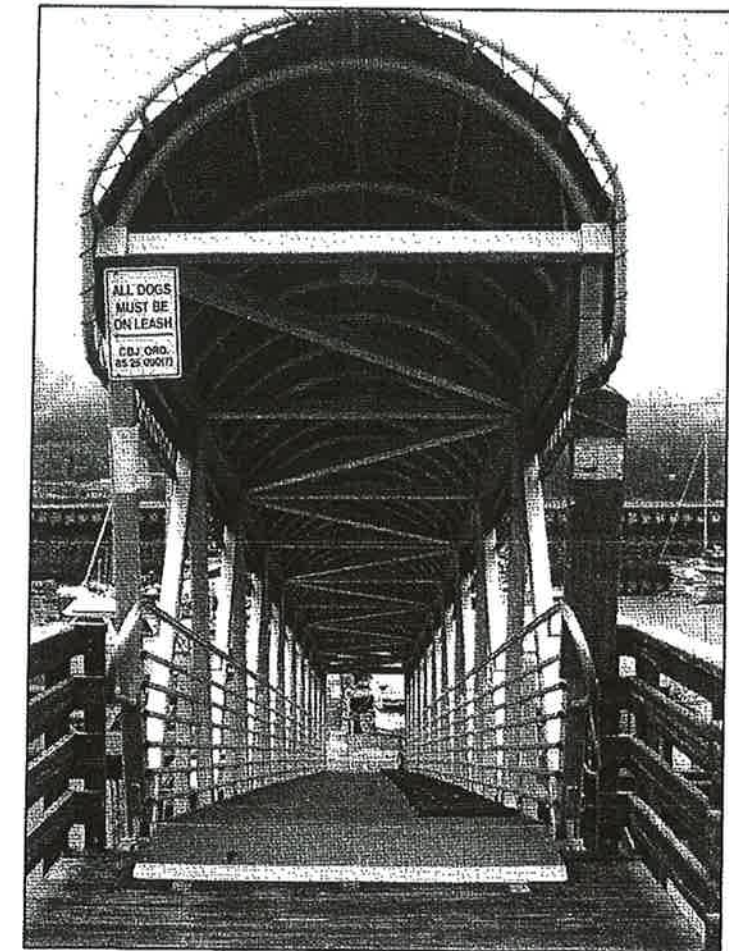
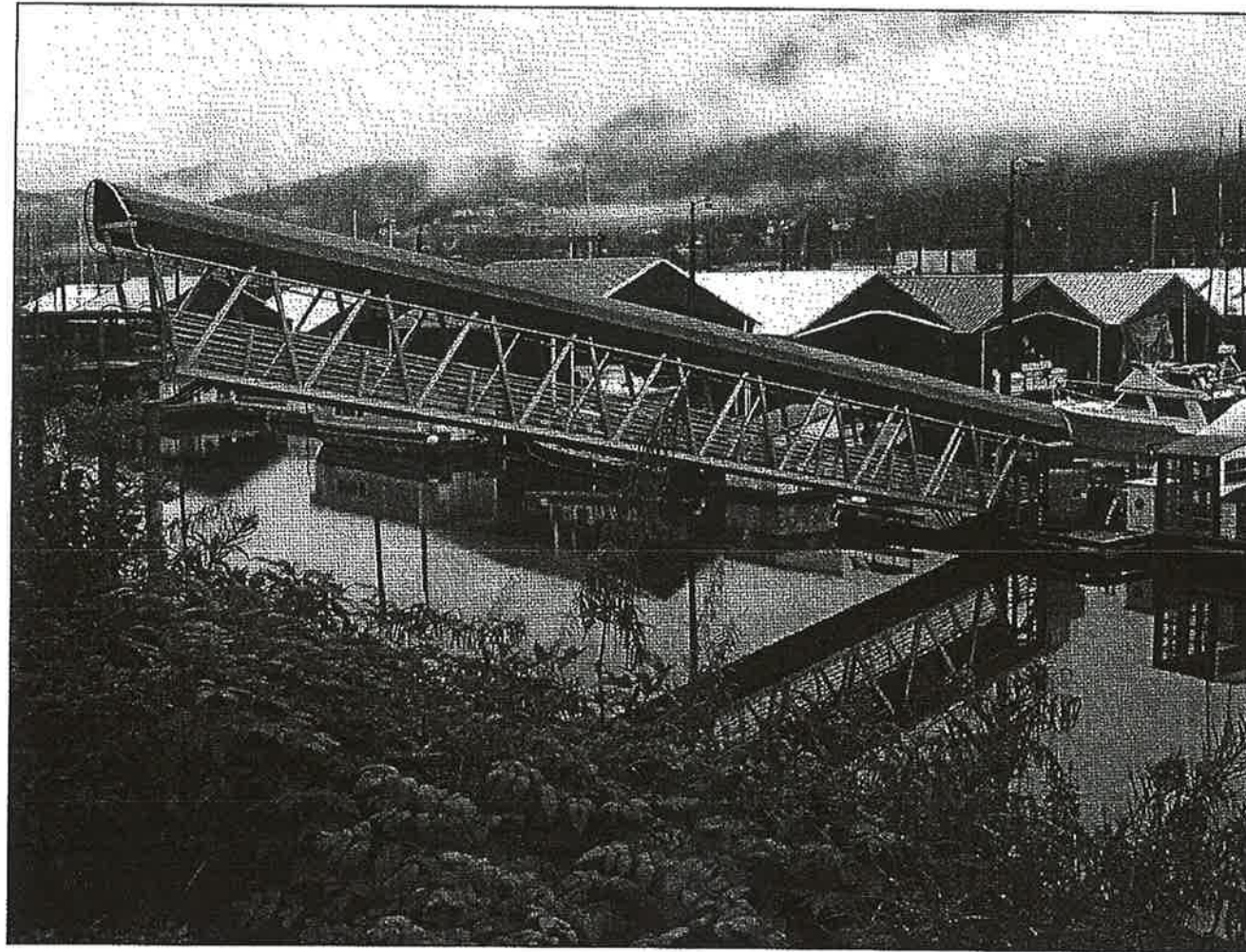
REVISIONS

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			BR-0003(53)/67599	2008	52	138

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
Gustavus Causeway Replacement
Added Pontoon Restraint Fender Assembly

~~IWA #3, Attach #4~~

C.O. #6, New Item 504(14) Gangway



Note: These photographs are from Juneau Aurora Basin and were provided by a recent contract with City and Borough of Juneau.

It is believed that these gangways were fabricated by Mantel Industries of Seattle. These structures represent the gangway type and configuration required for the replacement gangway at Gustavus Causeway project.

Attachment 1 of 4 RFP #3
10/29/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
Gustavus Causeway Replacement

RFP #3
Harbor Gangway Replacement

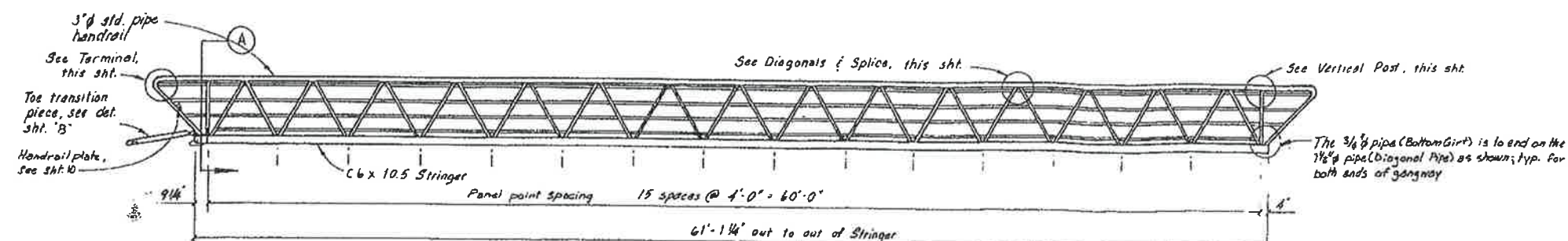
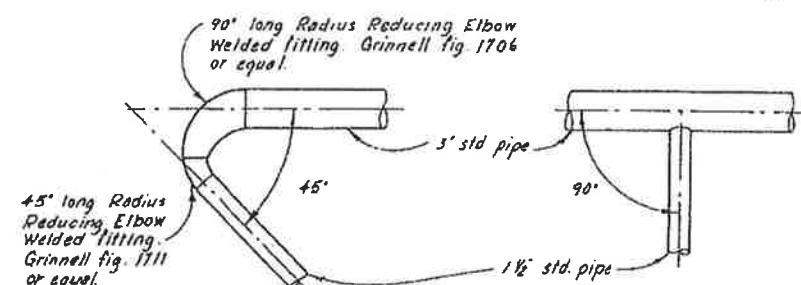
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE *Stan Miller* Date *8-21-11*

10/7/2009 2009

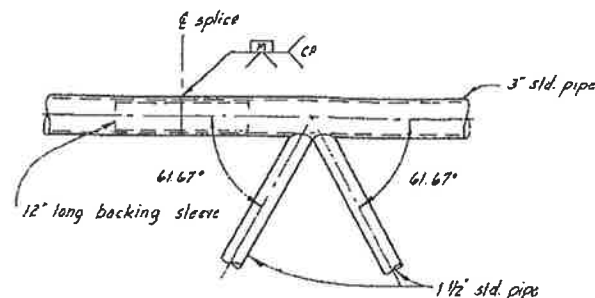
C.O.#6

New Item 504 (14) Gangway

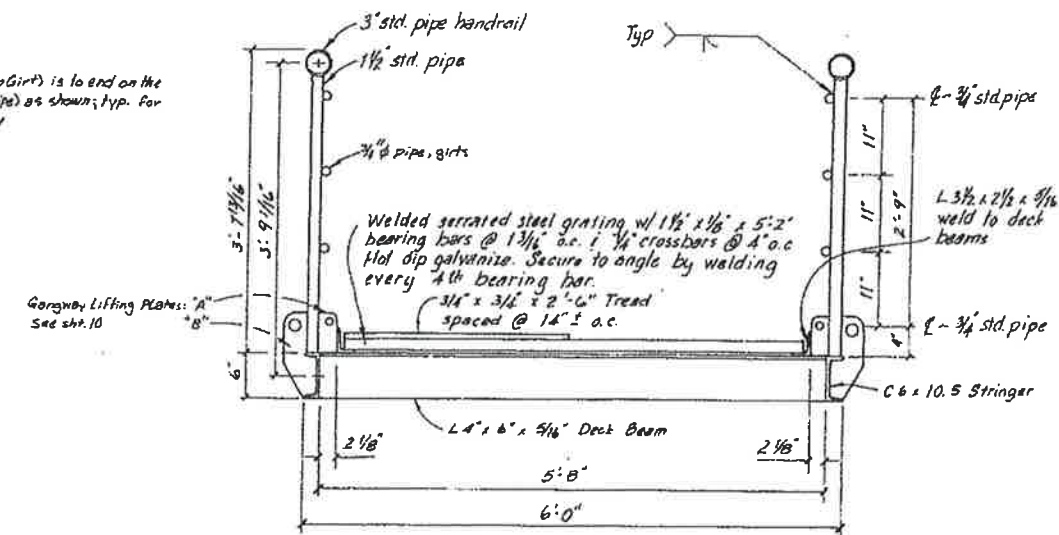
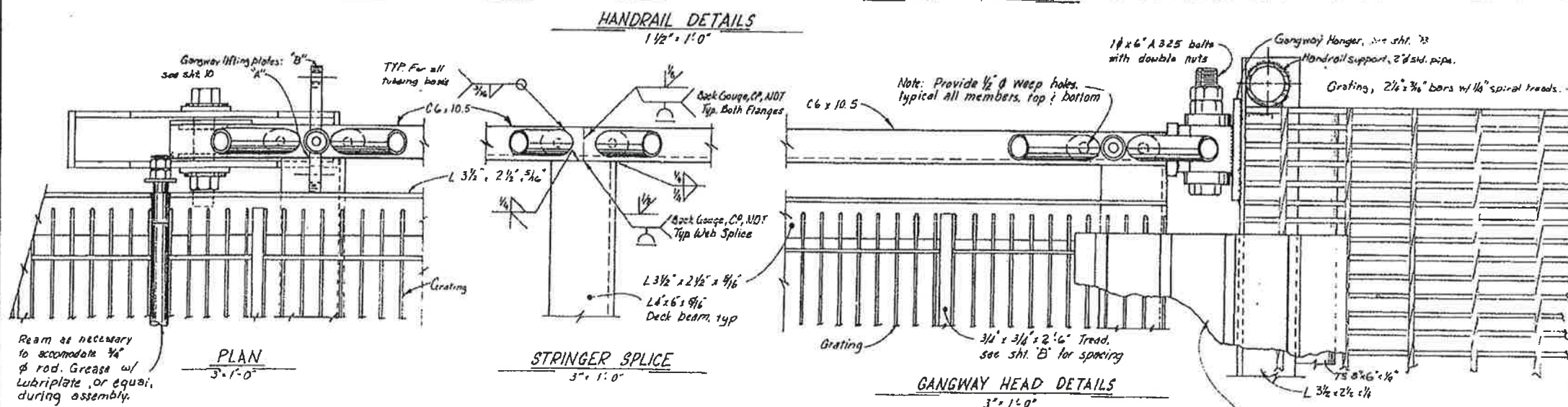
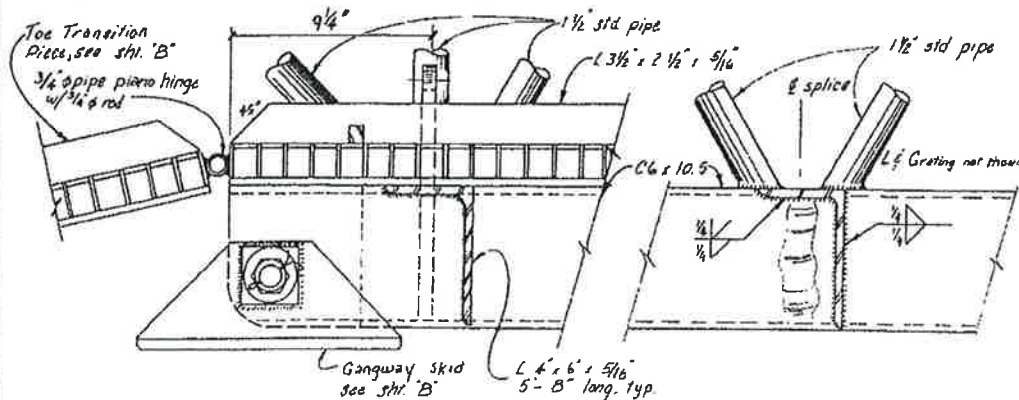
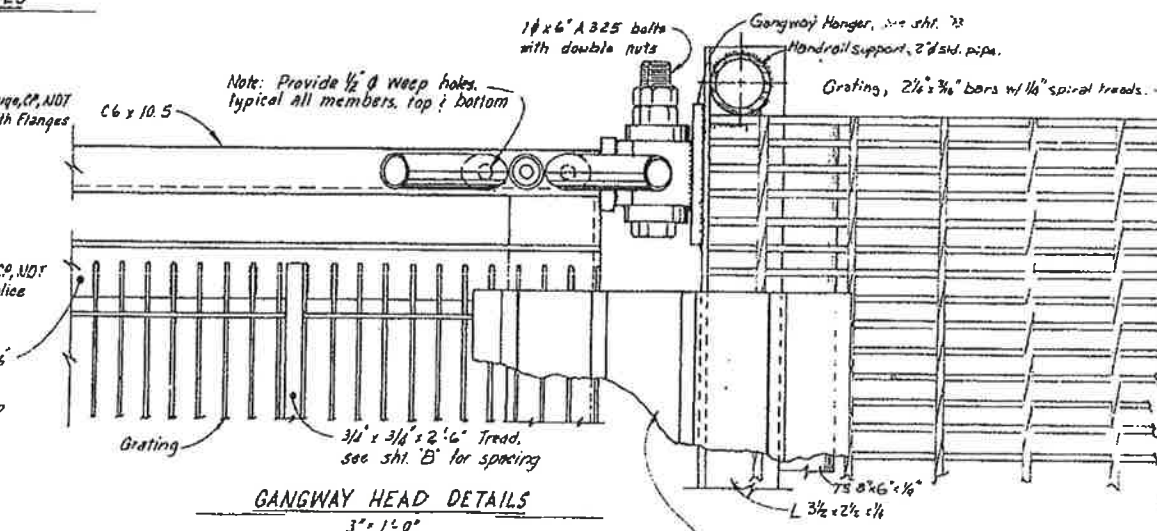
GANGWAY ELEVATION
1/4" = 1'-0"

TERMINAL

VERTICAL POST



DIAGONALS & SPLICE

SECTION A
1" = 1'-0"PLAN
3" = 1'-0"STRINGER SPLICE
3" = 1'-0"SECTIONAL ELEVATIONS
3" = 1'-0"GANGWAY HEAD DETAILS
3" = 1'-0"

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

PE St. M. K. Date 8-21-17

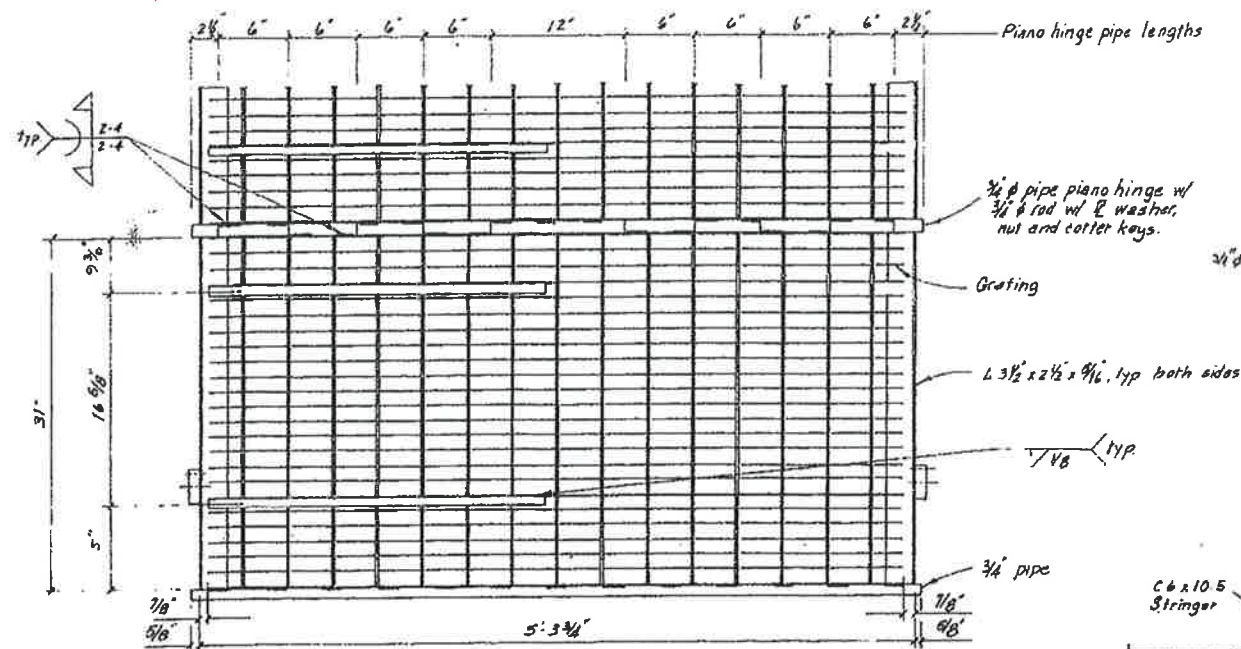
- NOTES
1. Design live load 85 psf.
 2. All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500 and shall be galvanized.
 3. All shapes & plates shall conform to ASTM A-36 and shall be galvanized.
 4. Ship assembled.
 5. No stringer or pipe splices may be located in middle 3rd of gangway.
 6. Hot dip Galv. all steel components after fabrication.
 7. Fabricator is to pre-assemble all components to assure proper fit.

RFP 3

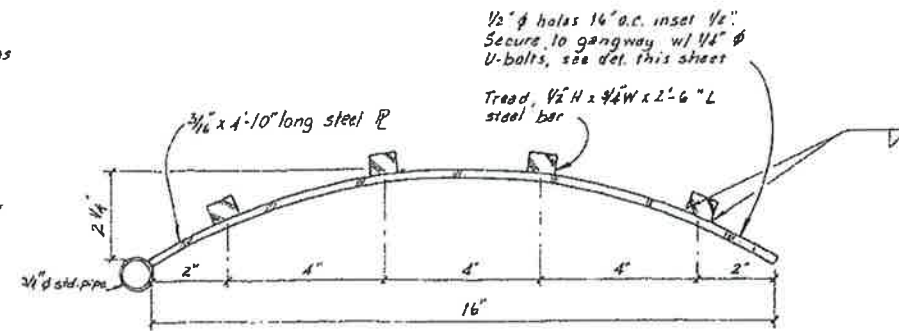
RFP 10/29/09

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION		Alaska	
GUSTAVUS		6' x 61'-0" STEEL GANGWAY SHEET A	
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED RAM/LB	DRAWN DM	CHECKED	DATE 8-8-17
PROJECT NUMBER K3402	SHEET 2 OF 4		

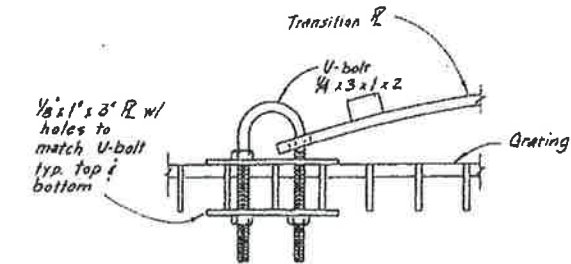
C.O. #6, New Item 504(14) Gangway



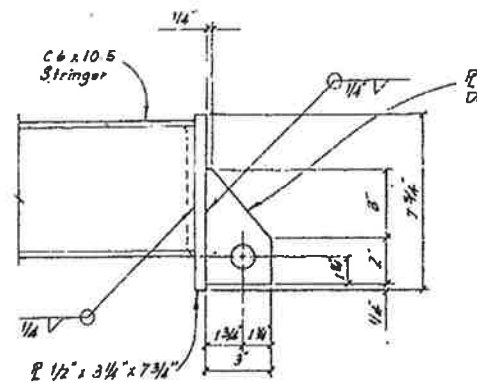
TOE TRANSITION PIECE PLAN
1 1/2" = 1'-0"



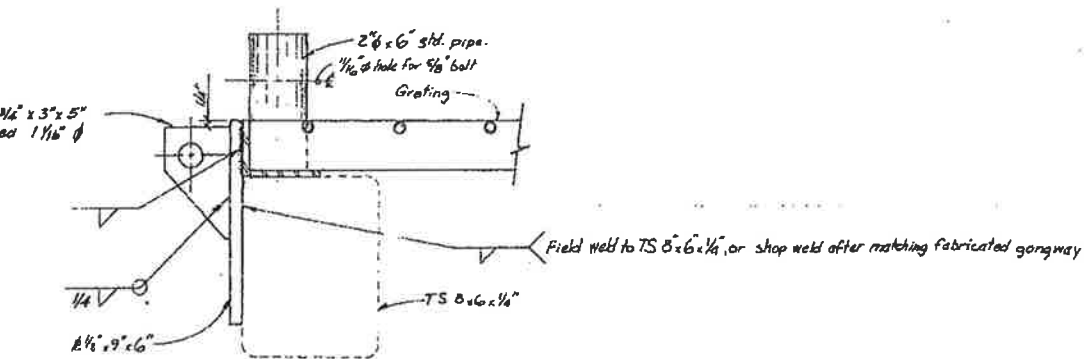
GANGWAY HEAD TRANSITION COVER P
Not to Scale



TRANSITION P CONNECTION
1/2" = 1'



GANGWAY HINGE CONNECTOR
3" = 1'-0"



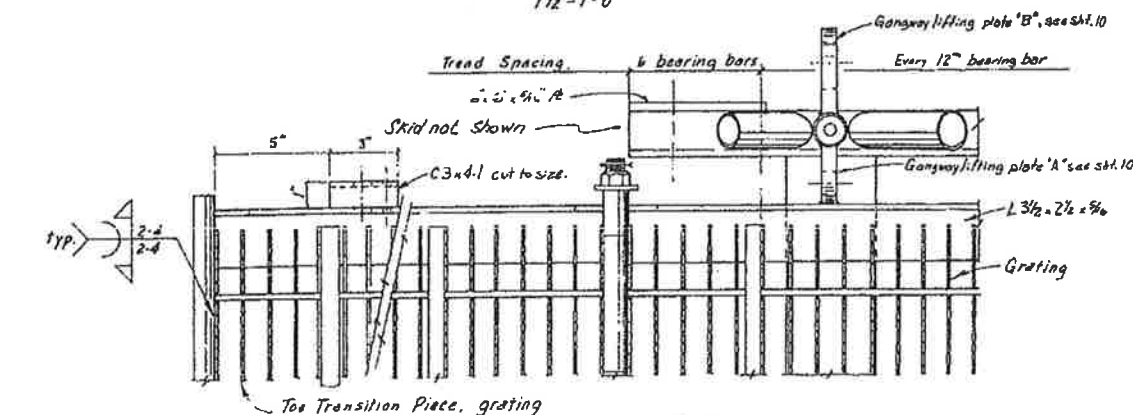
GANGWAY HANGER
3" = 1'-0"

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Shawn M. H. Date 8-21-17

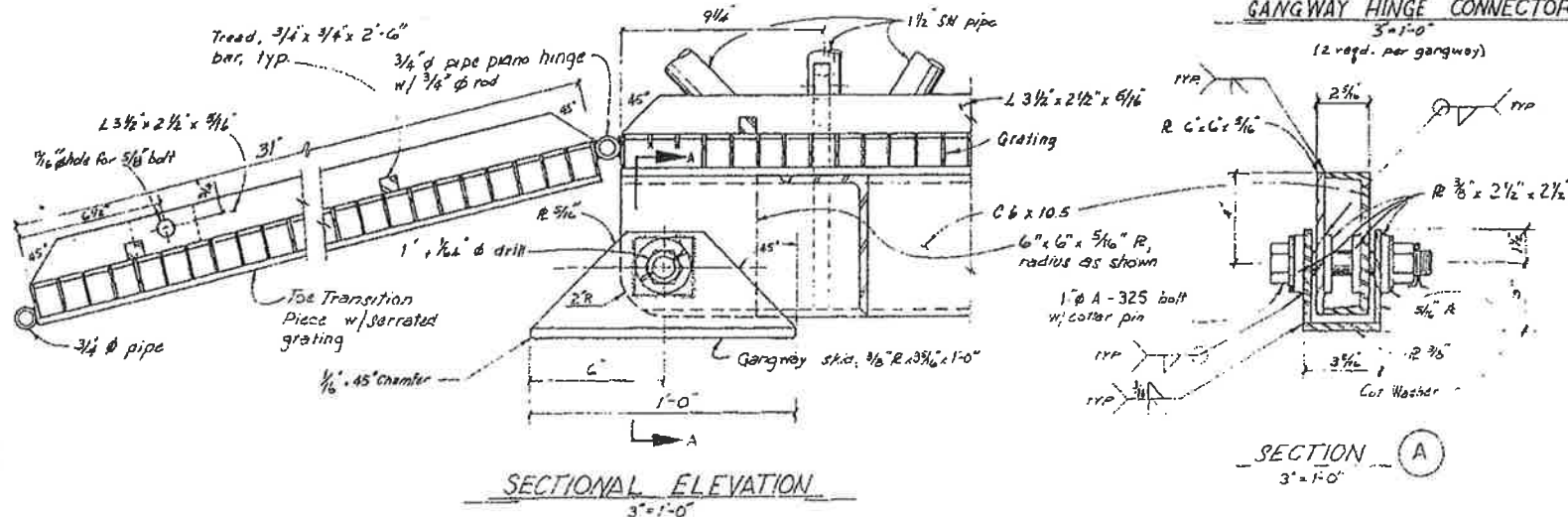
SEE SHT. 10 FOR GANGWAY HANDER ASSEMBLY DETAILS

RFP 3

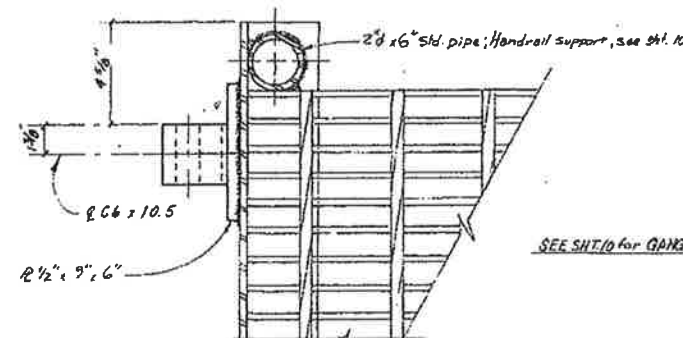
RFP 10/29/17



PLAN
3" = 1'-0"



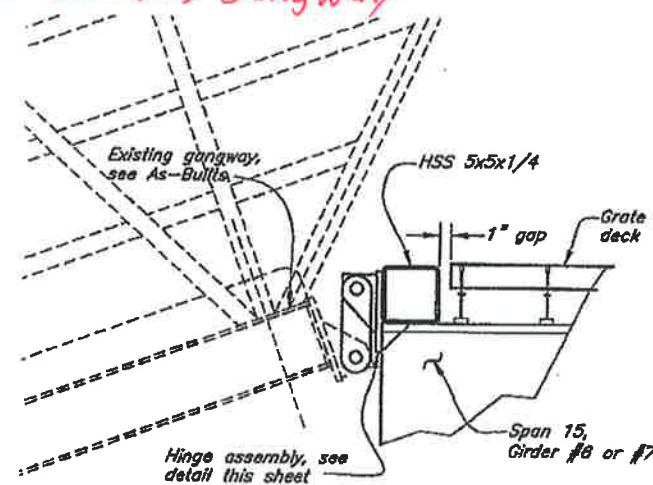
SECTIONAL ELEVATION
3" = 1'-0"



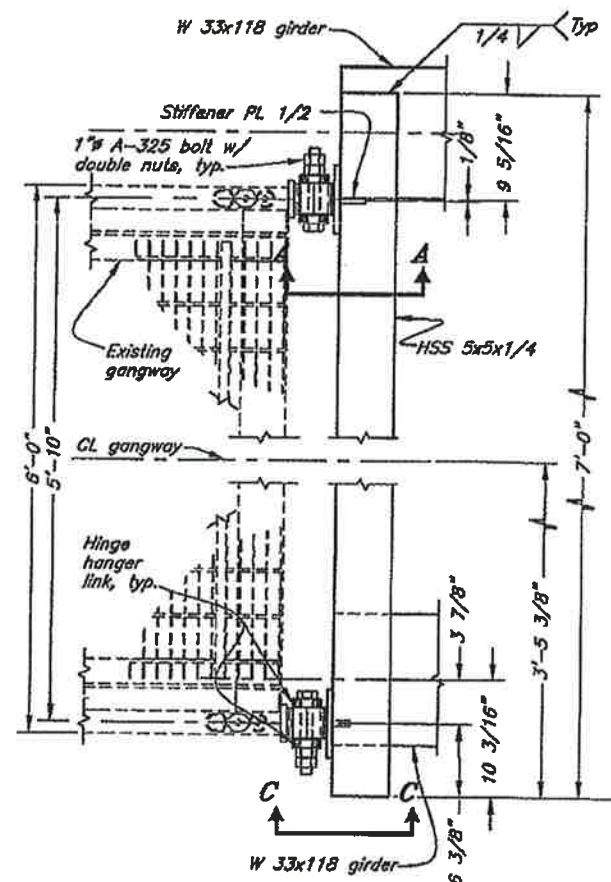
GANGWAY HINGE LINK
3" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	Alaska
		GUSTAVUS	
		6' x 61'-0" STEEL GANGWAY SHEET B	
SCALE As Noted	SUBMITTED	APPROVED	12
DRAWN BY RAM/LB	DATE 8-24		
CHECKED			
PROJECT NUMBER	K31402	SHEET	3 OF 4

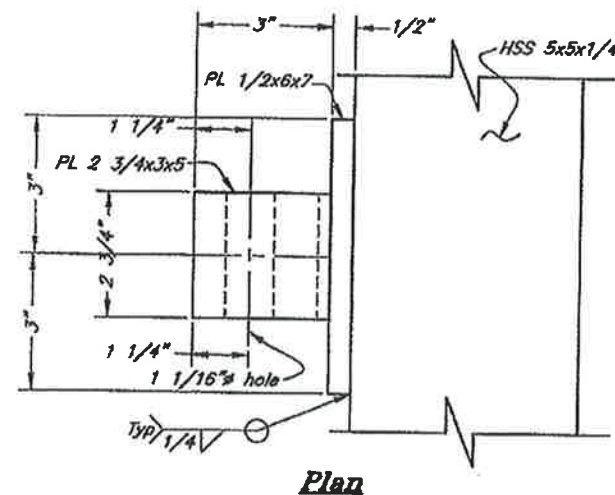
C.O. #6
New Item 504(14) Gangway



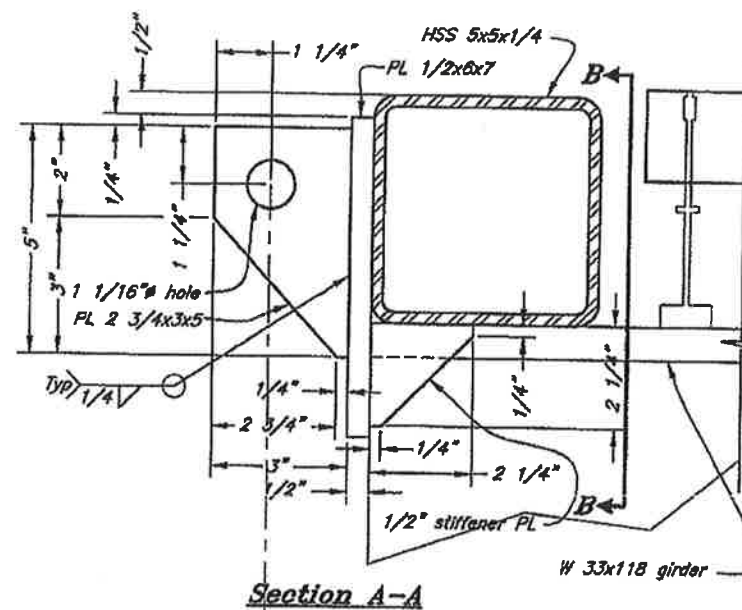
Gangway Hinge Elevation



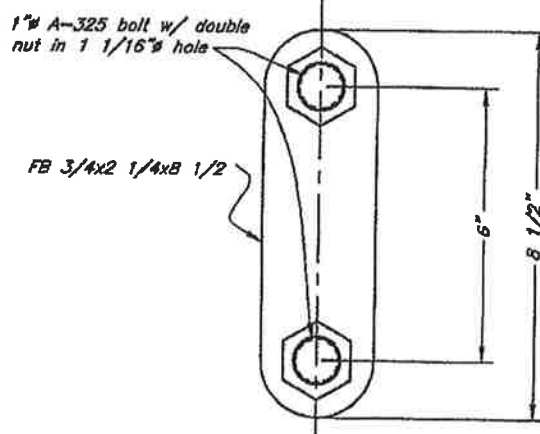
Gangway Hinge Plan



Plan

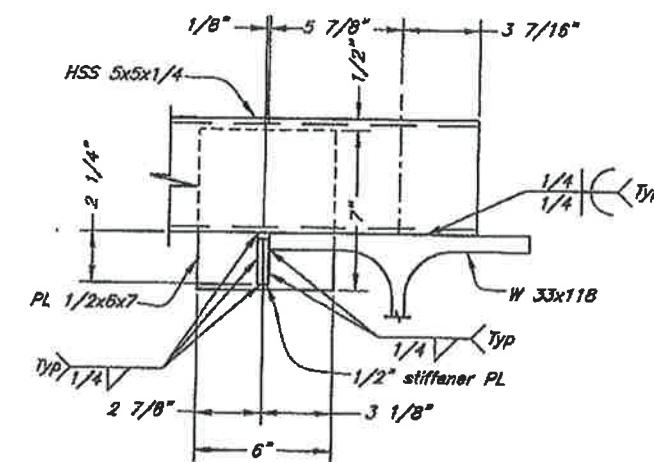


Section A-A

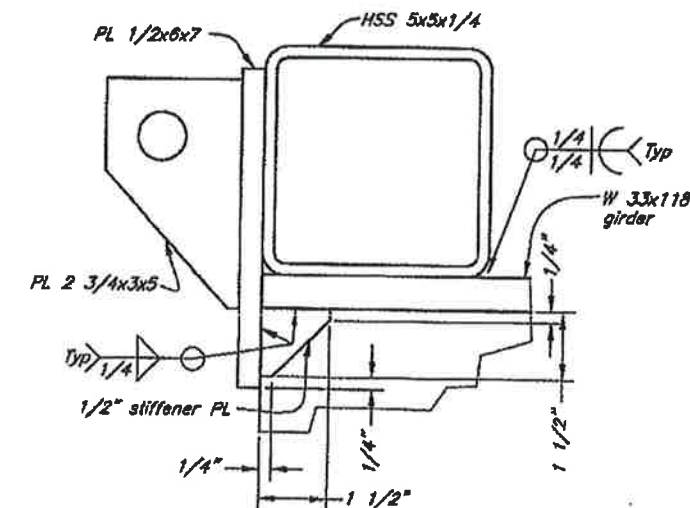


Hinge Hanger Link

Hinge Assembly



Section B-B



Section C-C

RFP 3

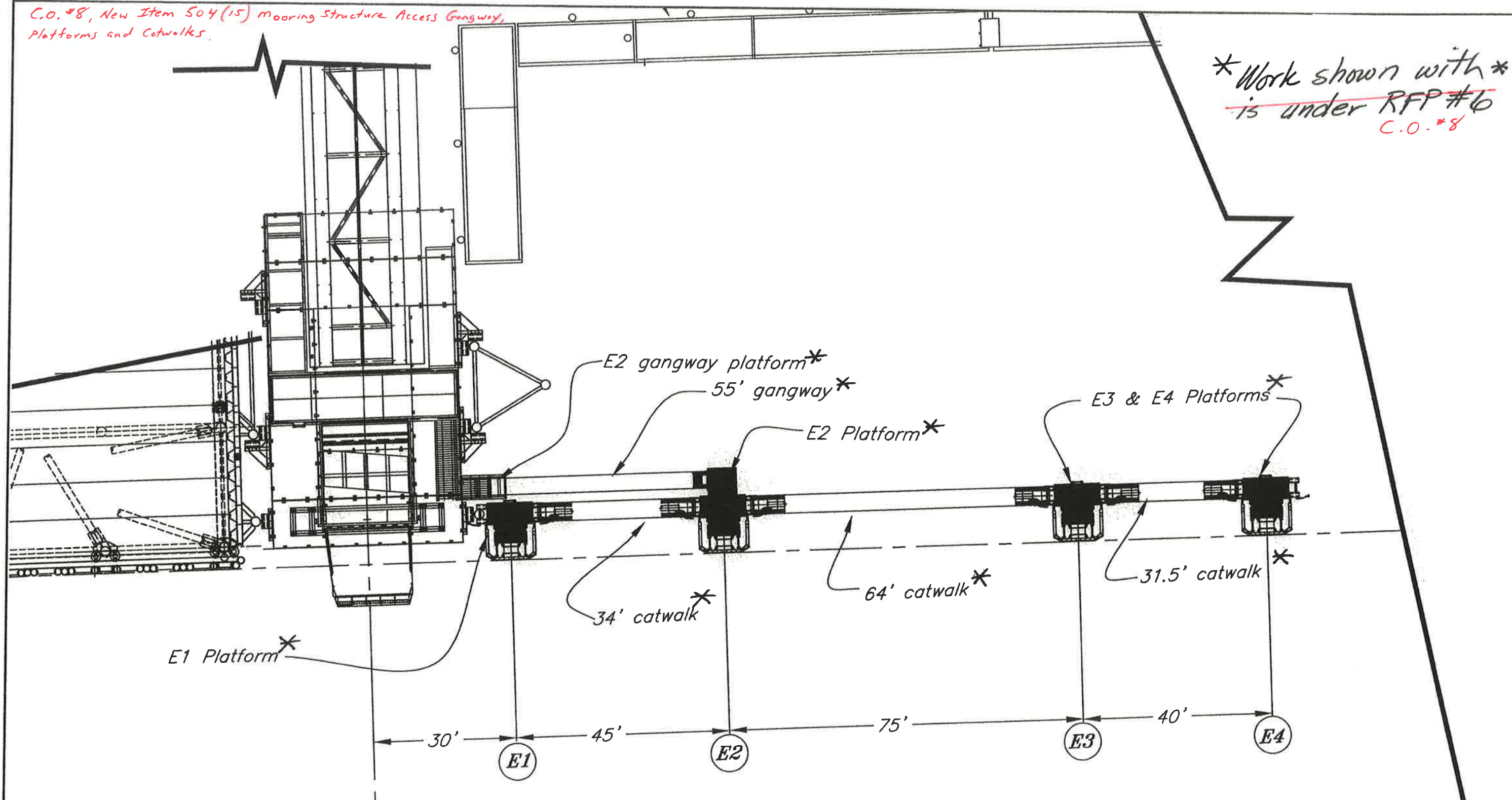
10/29/69

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE St. Miller Date 8-21-11

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
DESIGNED BY: <u>J. Scott</u>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
CHECKED BY: <u>B. Sovikho</u>		Gustavus Causeway Replacement	
DRAWN BY: <u>C. Fumoa, W. Nickel</u>		Gangway Hinge Assembly	
PATH: <u>G:\GUS\67599\MP\PLANSET\03-APPROACH\AP41 GANGWAY HINGE ASSEMBLY.DWG</u>		AP41	
TAB: <u>Rev. 26/Nov/08 11:00AM</u>		JTS/COIT	
NO.	DATE	DESCRIPTION	TOTAL SHEETS
1			4
PROJECT DESIGNATION		YEAR	SHEET NO.
BR-0003(53)/67599		2008	4

C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Catwalks.

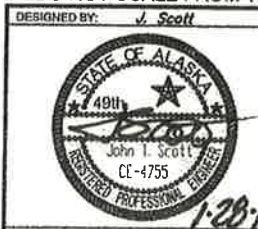
* Work shown with *
is under RFP #6
C.O. #8



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

PE St. Miller Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

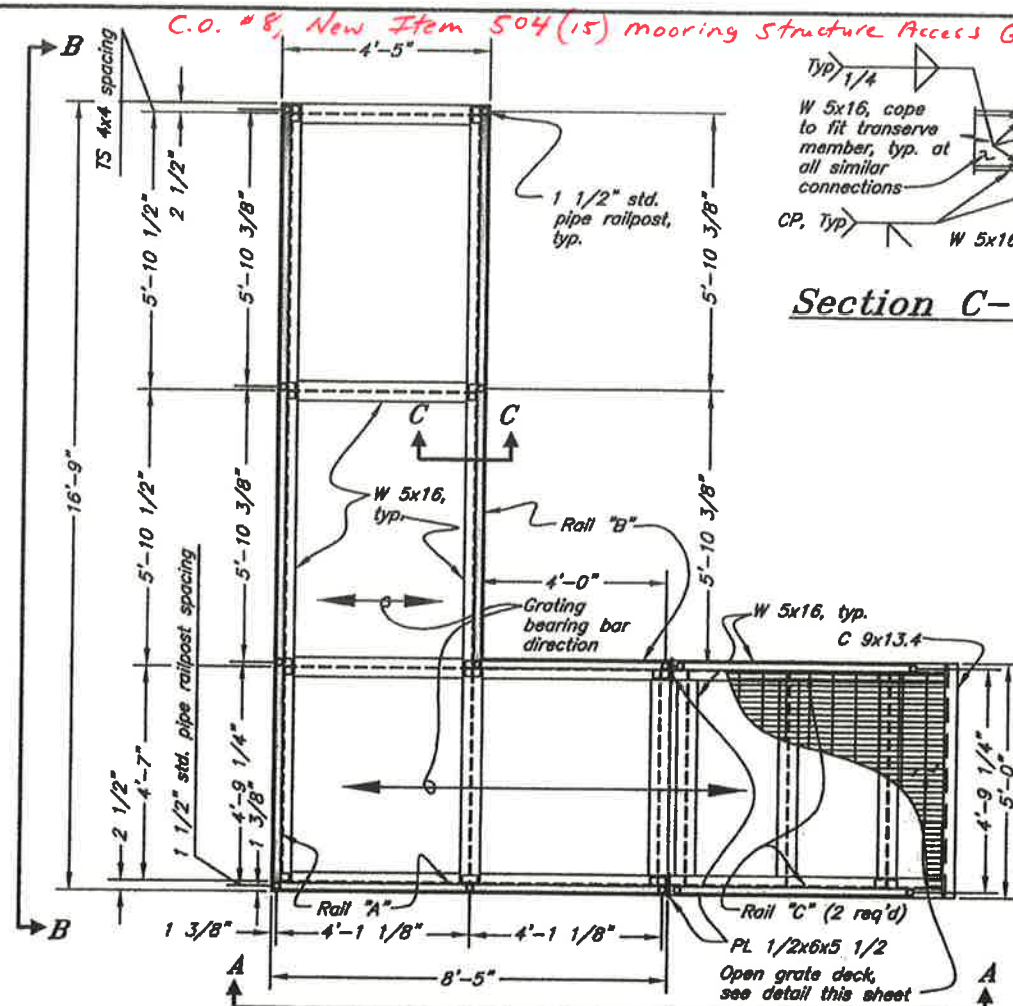
Gustavus Causeway Replacement
~~RFP #6~~
Gangway - Pontoon to E2
and Catwalks E1 - E4

Marine Site Plan

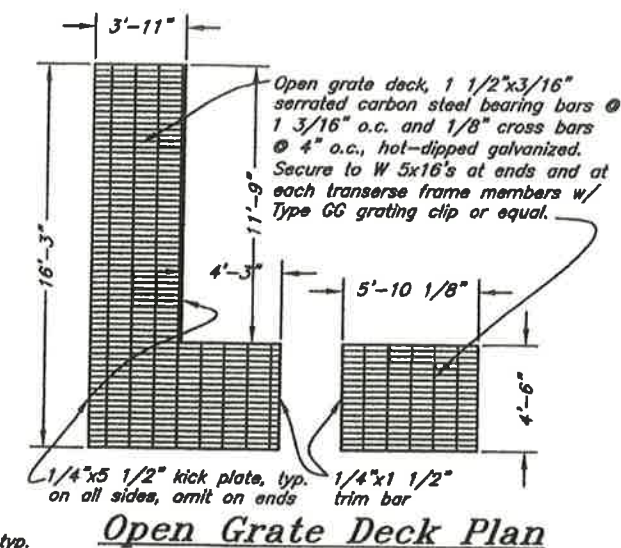
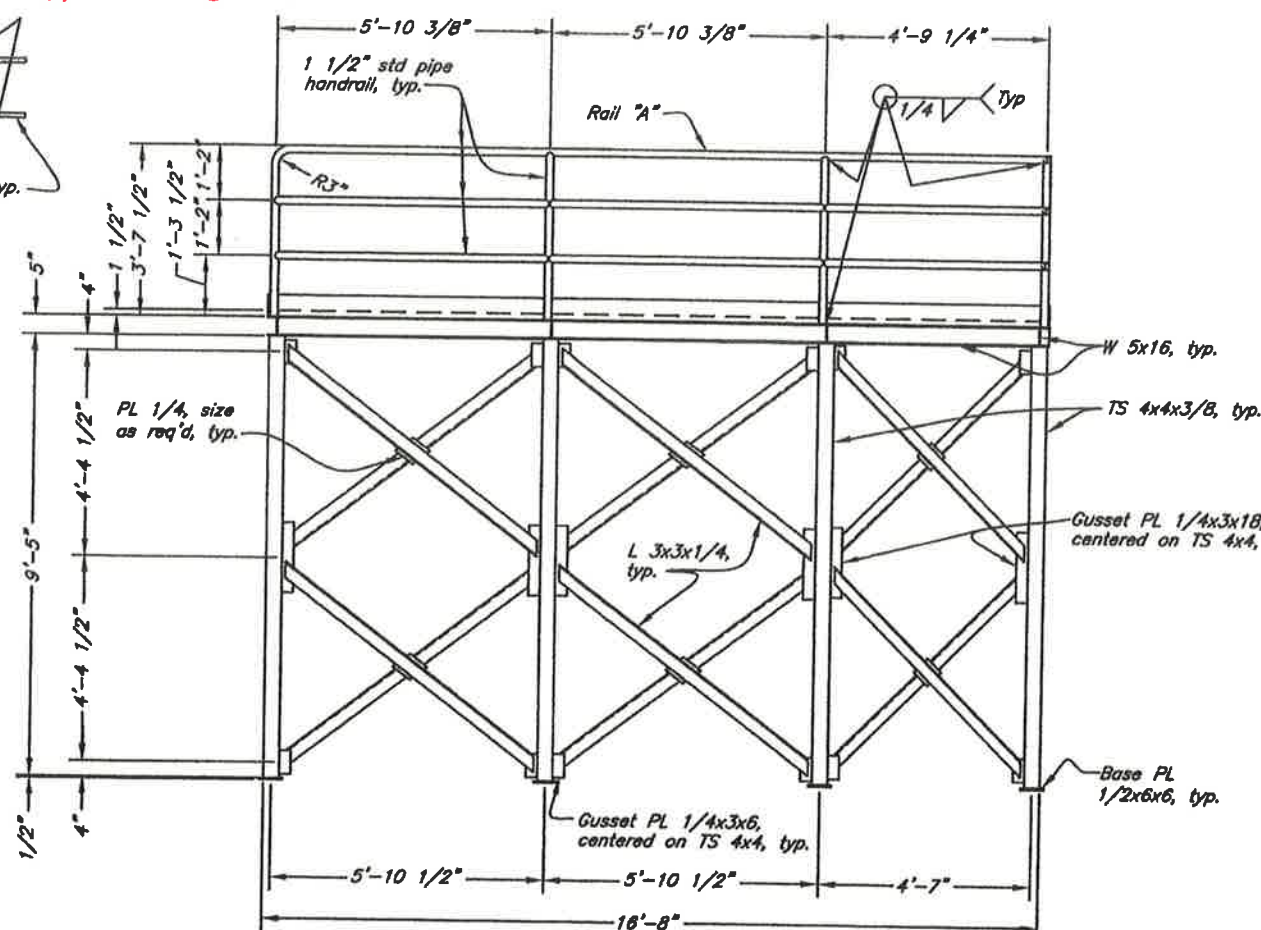
CHECKED BY: B. Savikko
DRAWN BY: C. Fumero, M. Hekok
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TAB: Sol, 23/Jan/10 03:19PM
SCOTT, JOHN T (DOT)

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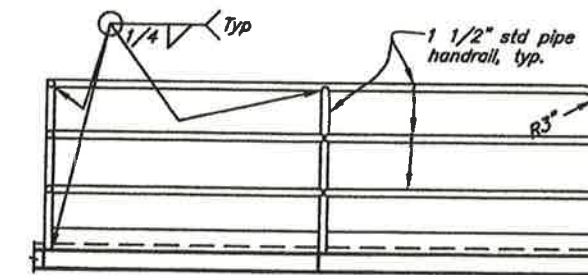
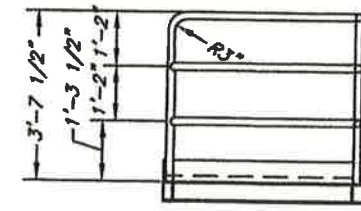
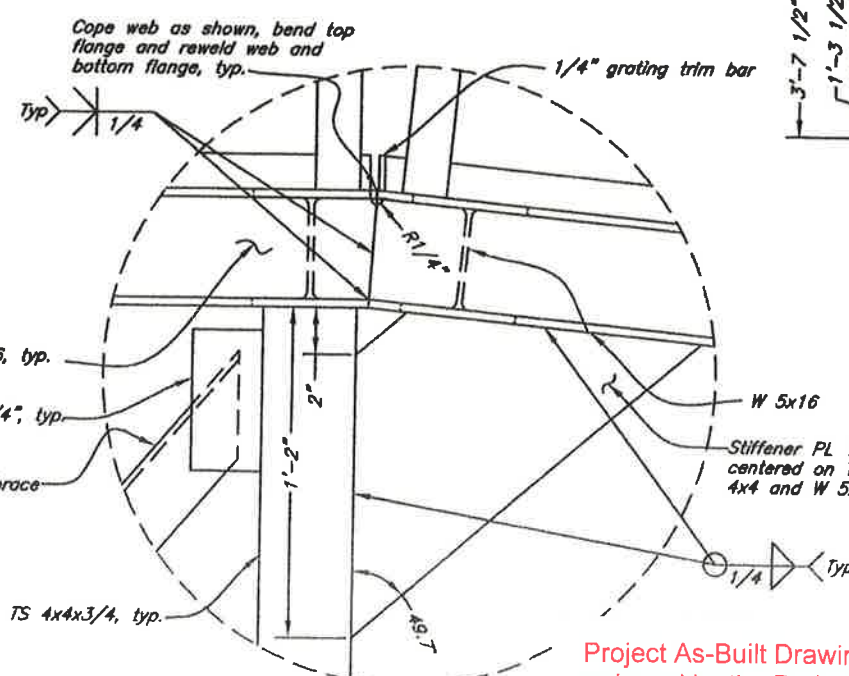
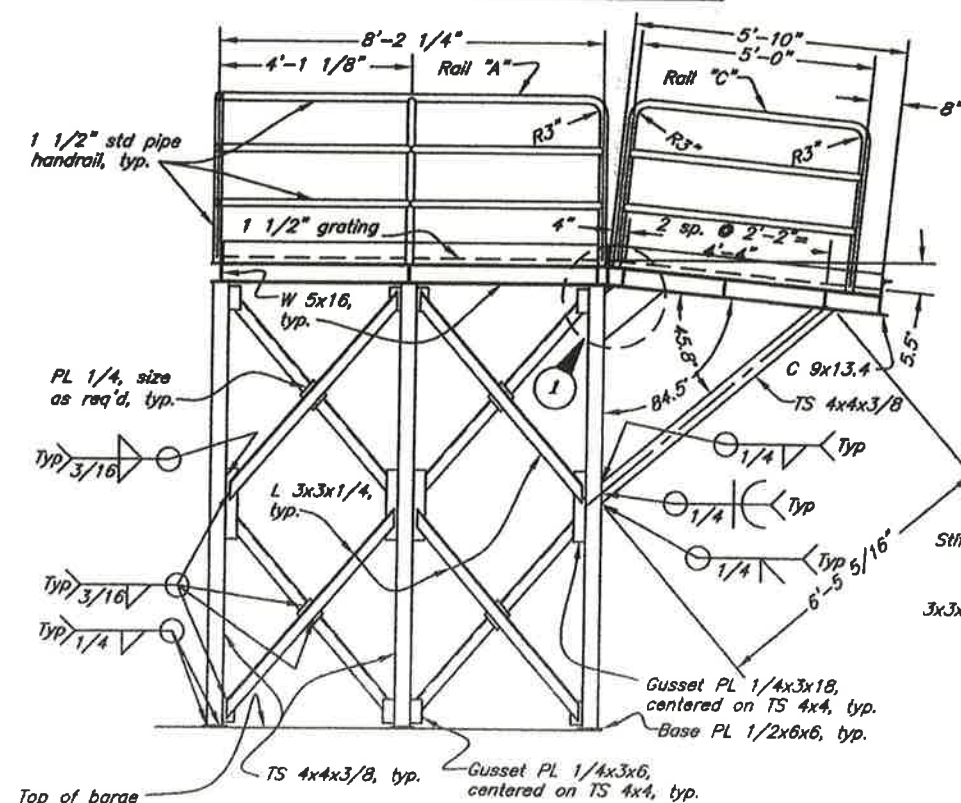
C.O. #8, New Item 504(15) mooring structure Access Gangway, Platform and Catwalks



Section C-C



NOTES:
1) Platform shall be galvanized
2) Platform shall be attached to Pontoon in same manner as others.



Handrail "B"

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Sten Miller Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

CHECKED BY: B. Savitko

DRAWN BY: C. Fumero, M. Hekko

PATH: C:\DOCUMENTS AND SETTINGS\JSCOTT\DOT\DESKTOP\RFP 06 GANGWAY PLATFORM.DWG

TAB: Sun, 24-Jan-10 06:46PM

REVISIONS

PROJECT DESIGNATION: BR-0003(53)/67599

YEAR: 2008

SHEET NO: 2

TOTAL SHEETS: 8

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

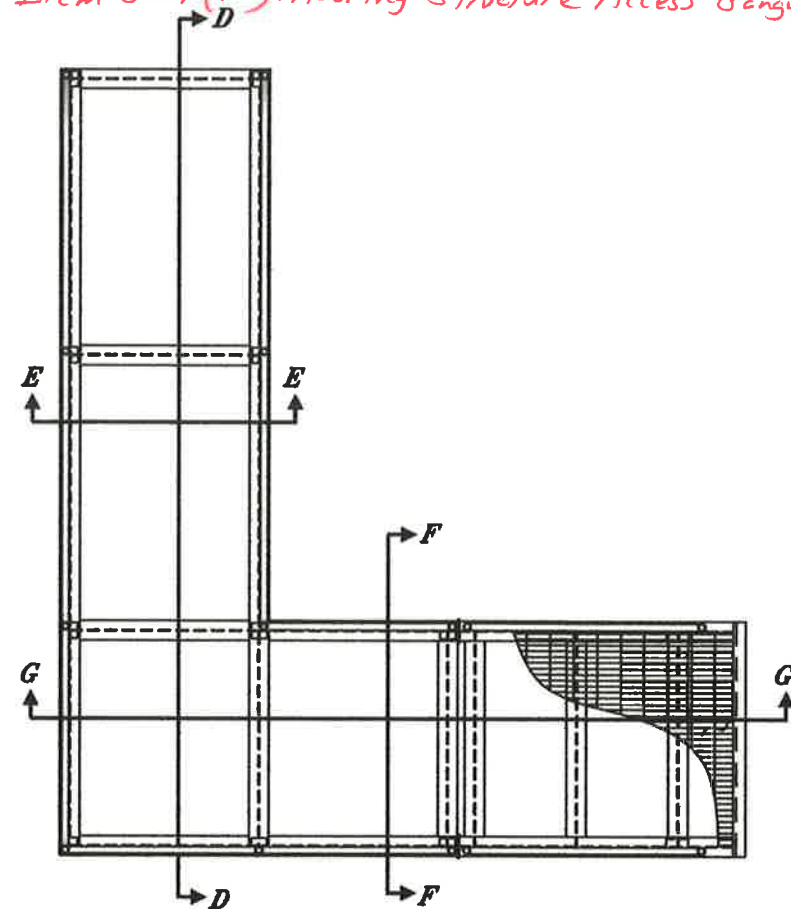
Gustavus Causeway Replacement

RFP #6
E2 Gangway Platform

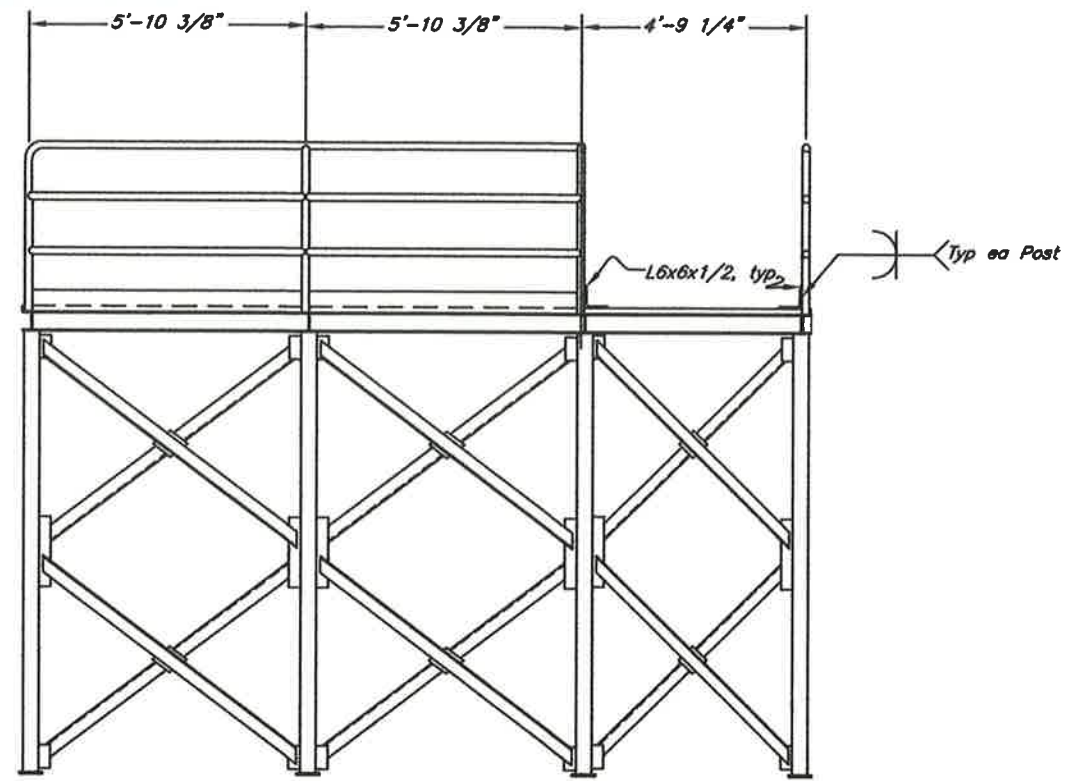
1-28-10

SCOTT, JOHN T. (DOT)

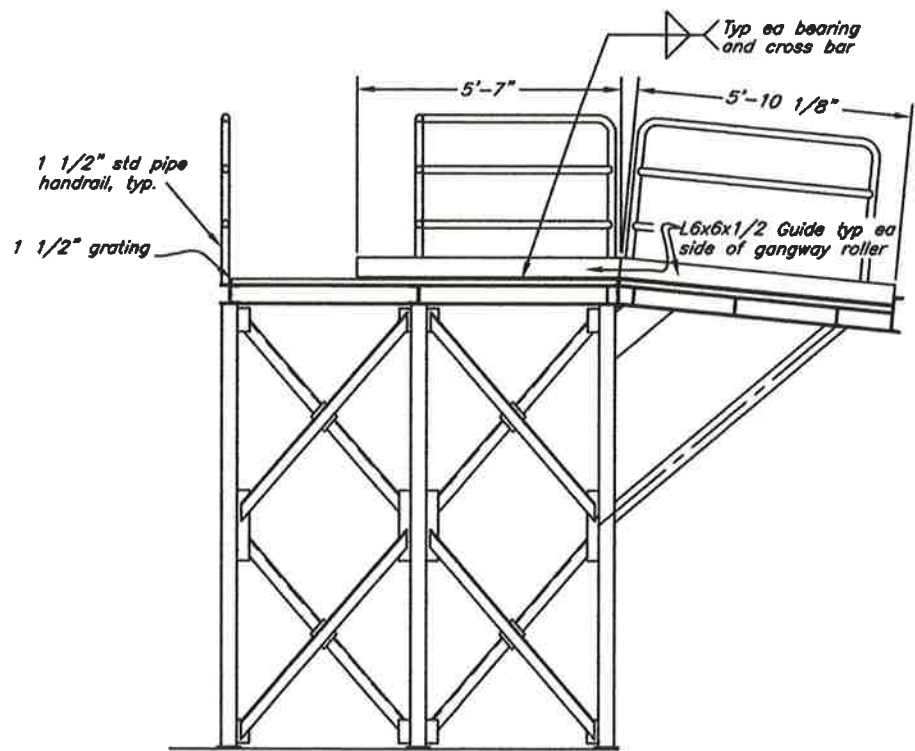
C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Catwalks



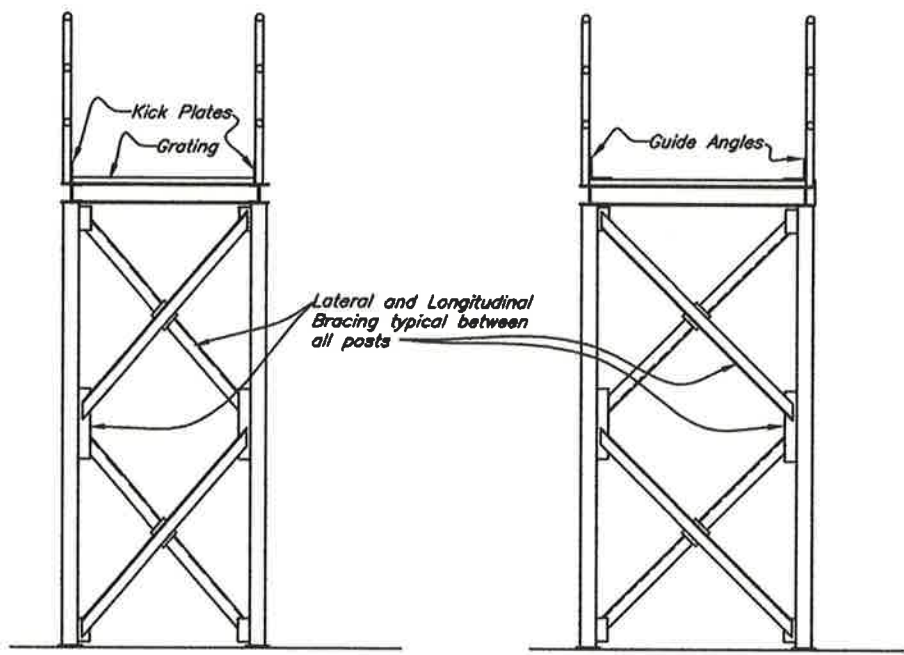
Platform Plan View



Elevation D-D



Elevation G-G



Section E-E

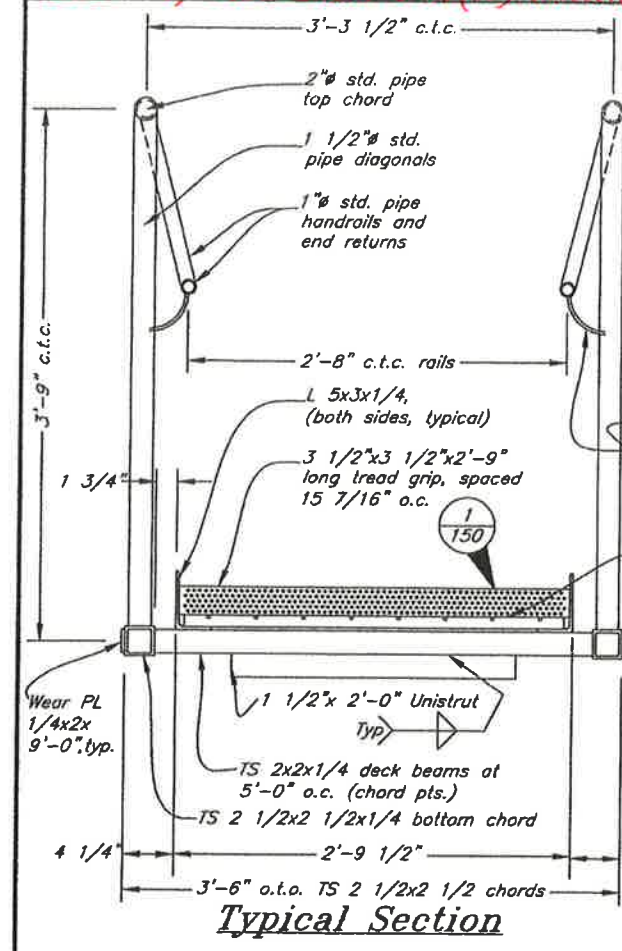
Section F-F

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *John T. Scott* Date *8-21-11*

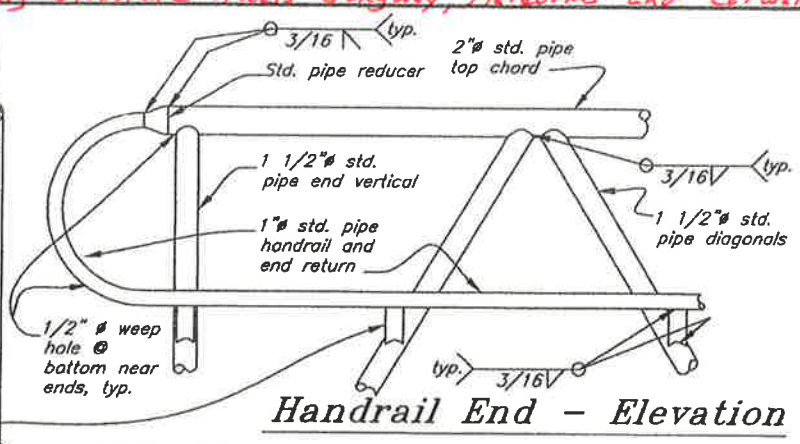
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: <i>J. Scott</i>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION				
	Gustavus Causeway Replacement RFP #6 E2 Gangway Platform Sections				
	CHECKED BY: <i>B. Savitsky</i>				
DRAWN BY: <i>C. Fumon, W. Hickok</i>		PATH: <i>C:\DOCUMENTS AND SETTINGS\JTS\DOT\DESKTOP\RFP 06 CLARIFY GANGWAY PLATFORM.DWG</i>		TAB: <i>Mon, 01/Feb/10 11:15AM</i>	
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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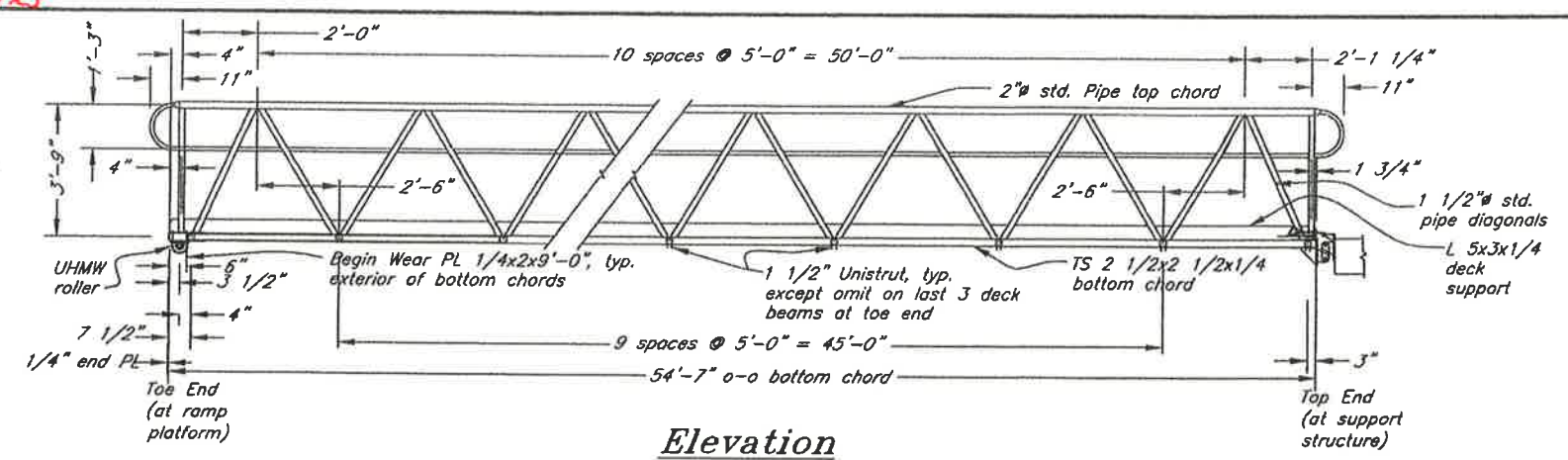
C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Caissons



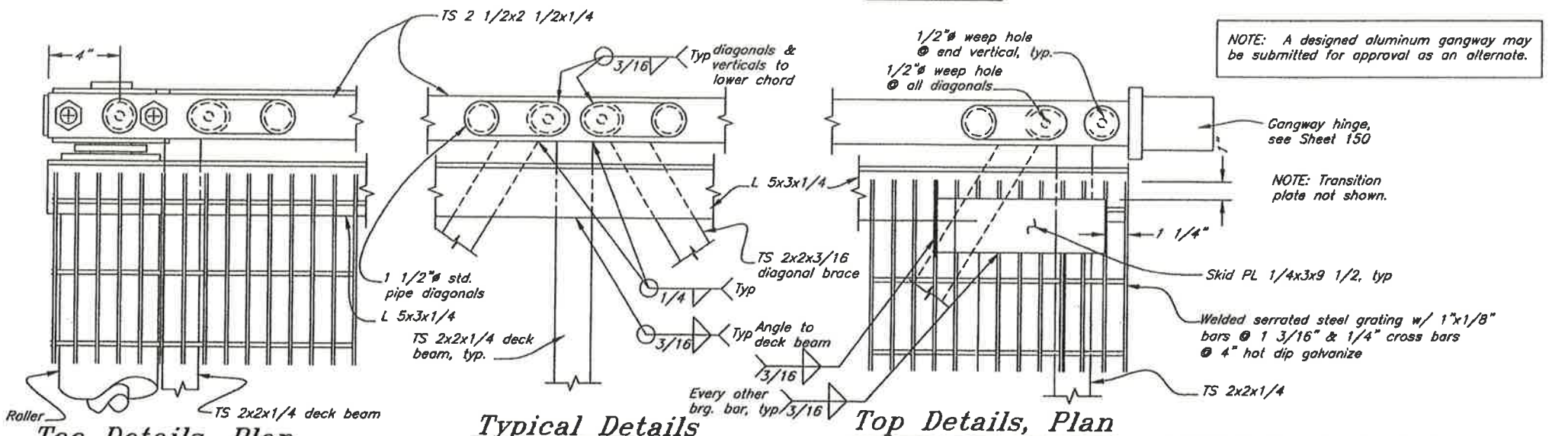
Typical Section



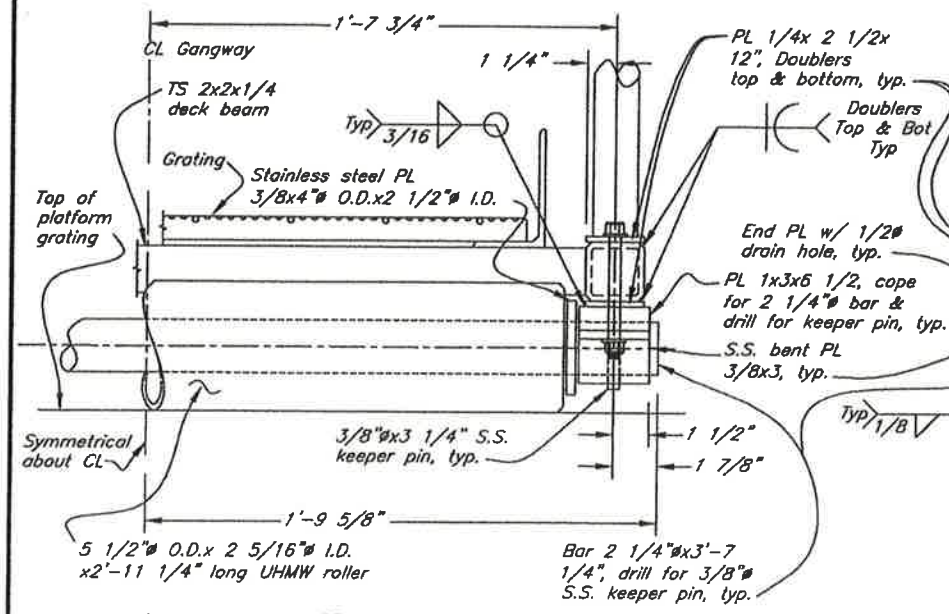
Handrail End - Elevation



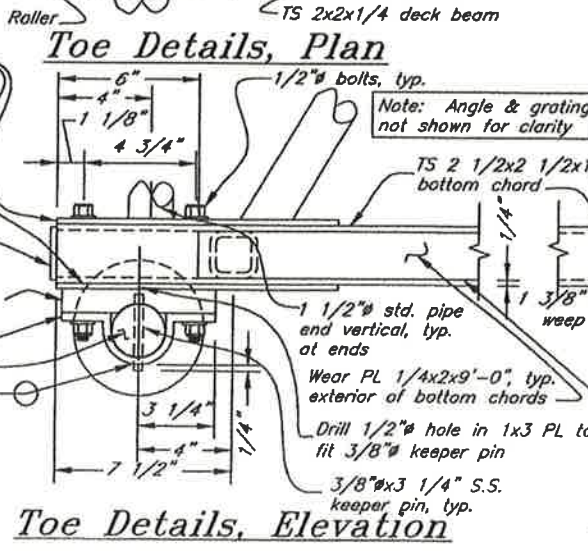
Elevation



Top Details, Plan

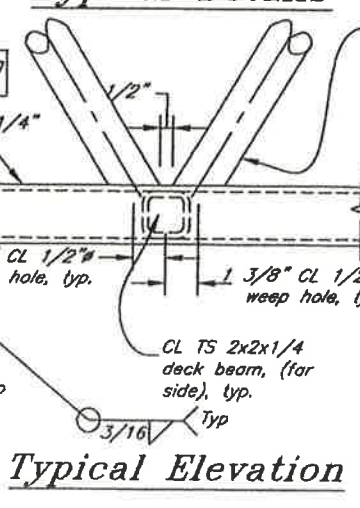


Toe Details, End Elevation

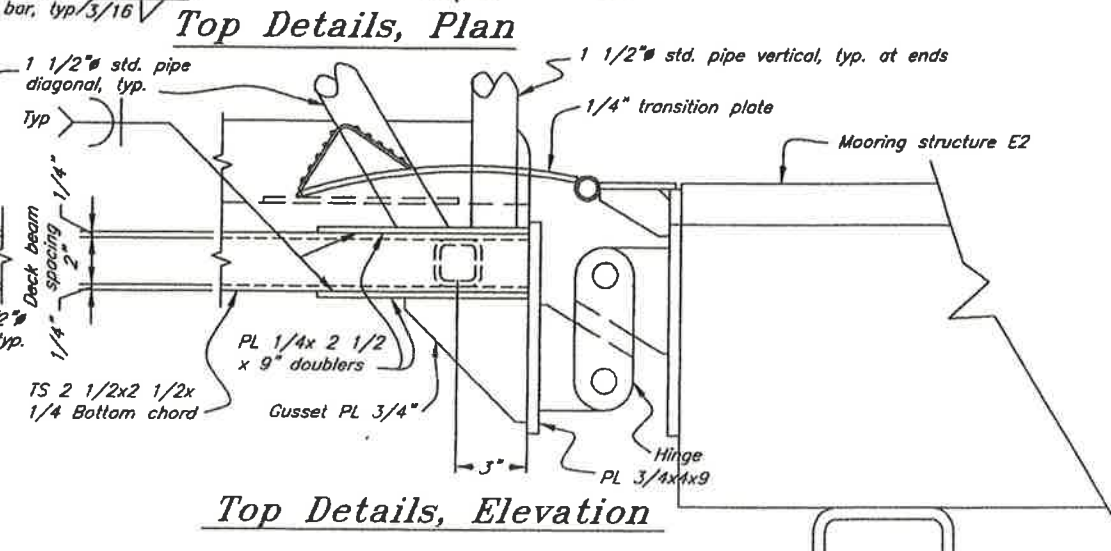


Toe Details, Elevation

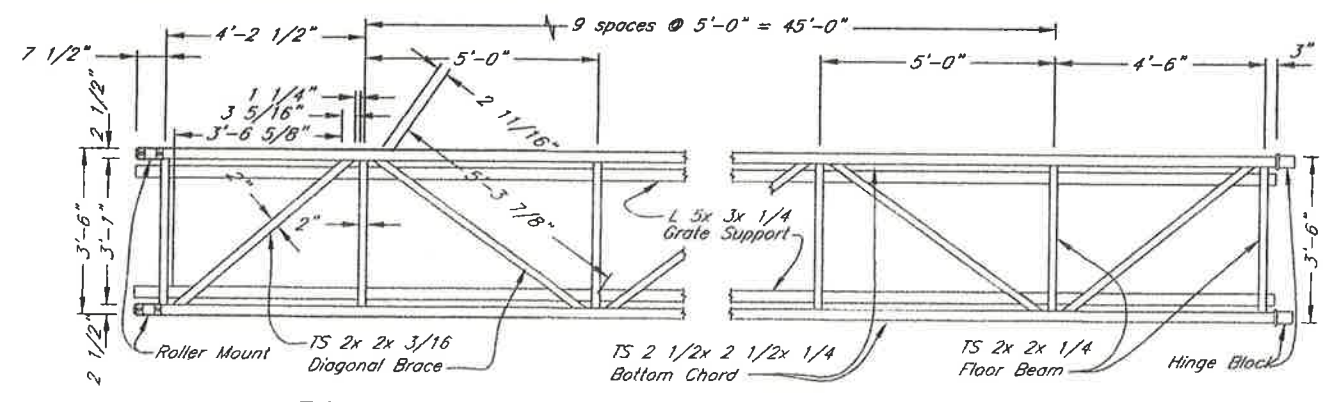
Typical Details



Typical Elevation



Top Details, Elevation



Diagonal Brace Detail, Bottom View

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 8-21-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

RFP #6
55' Gangway Pontoon to E2

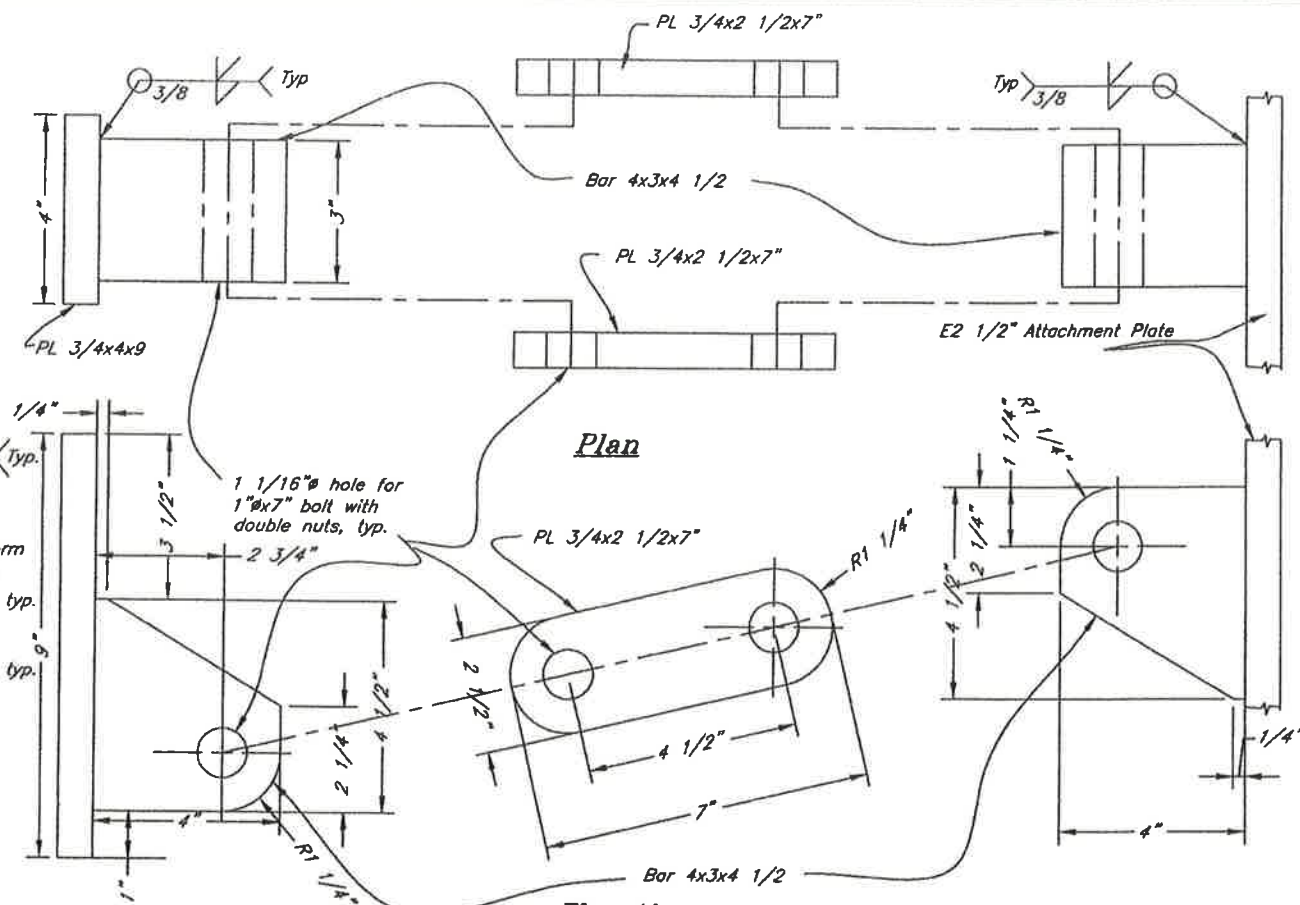
CHECKED BY: B. Savikko
DRAWN BY: C. Fuman, W. Hickok
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TAB: Sol, 23/Jan/10 02:34PM
SCOTT, JOHN T (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			BR-0003(53)/67599	2008	3	8

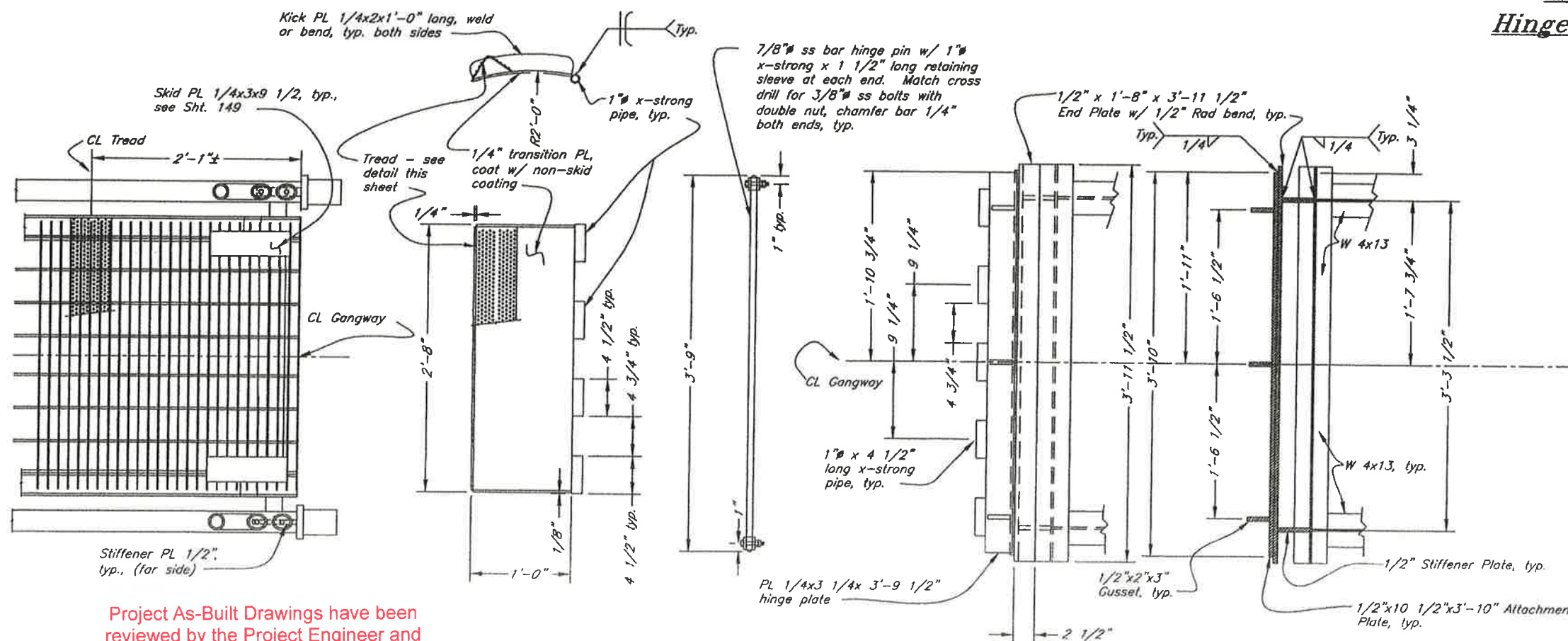
1/4" transition plate
 1 1/2" std. pipe vertical, typ. at ends
 1" x 4 1/2" x-strong pipe sleeves
 Typ.
 Mooring structure E2 Platform
 TS 2 1/2x2 1/2 bottom chord
 Typ. 1/4"
 5 1/4"
 5 1/2"
 3"
 5 1/4"
 Gusset PL 3/4x5 1/4x5 1/4
 1/2"
 PL 3/4x4x9
 Hinge
 1/4" x 3'-9 1/2" x 3 1/4" Transition hinge Plate
 1" x 4 1/2" extra strong pipe hinges, typ.
 1/2" x 2" x 3" Gusset Plates w/ 1/2" clips as shown, typ.
 Typ. 1/4"
 4" x 3" x 4 1/2" Hinge Block, typ.
 1/2" x 10 1/2" x 3'-10" Attachment Plate, typ.
 1/2" x 1'-8" x 3'-11 1/2" End Plate w/ 1/2" Rod bend, typ.
 1/4"
 1/4"
 1/2"
 3/8"
 Typ.
 Typ.
 Typ.
 W4x13 Dolphin Platform Frame Members, typ.
 1/2" Stiffener Plate, typ.
 TS 6x12 Deck Support, typ.
 3/8"
 Typ.

Gangway Hinge Detail

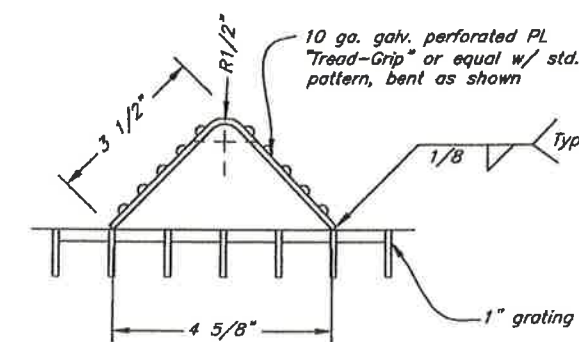
Gangway Hinge Detail



Elevation
Hinge Assembly



Transition Plate and Hinge Details



Tread Detail (1/149)

PE Steve Smith Date 8-21-17

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DESIGNED BY: J. Scott



Gustavus Causeway Replacement

~~RFP #6~~
55' Gangway
Details

CHECKED BY: B. Savikko

DRAWN BY: C. Fumon, W. Nic

PATH: C:\DOCUMENTS AND SETTINGS\JSCOTT\DOT\DESKTOP\REP 06 55 FT GANGWAY DETAIL.DWG

TAB: Sat 27/10/10 02:32PM

REVISIONS	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
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REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				

DATE	STATE	DEPARTMENT	BR-0003(53)/67599	2008	7	8
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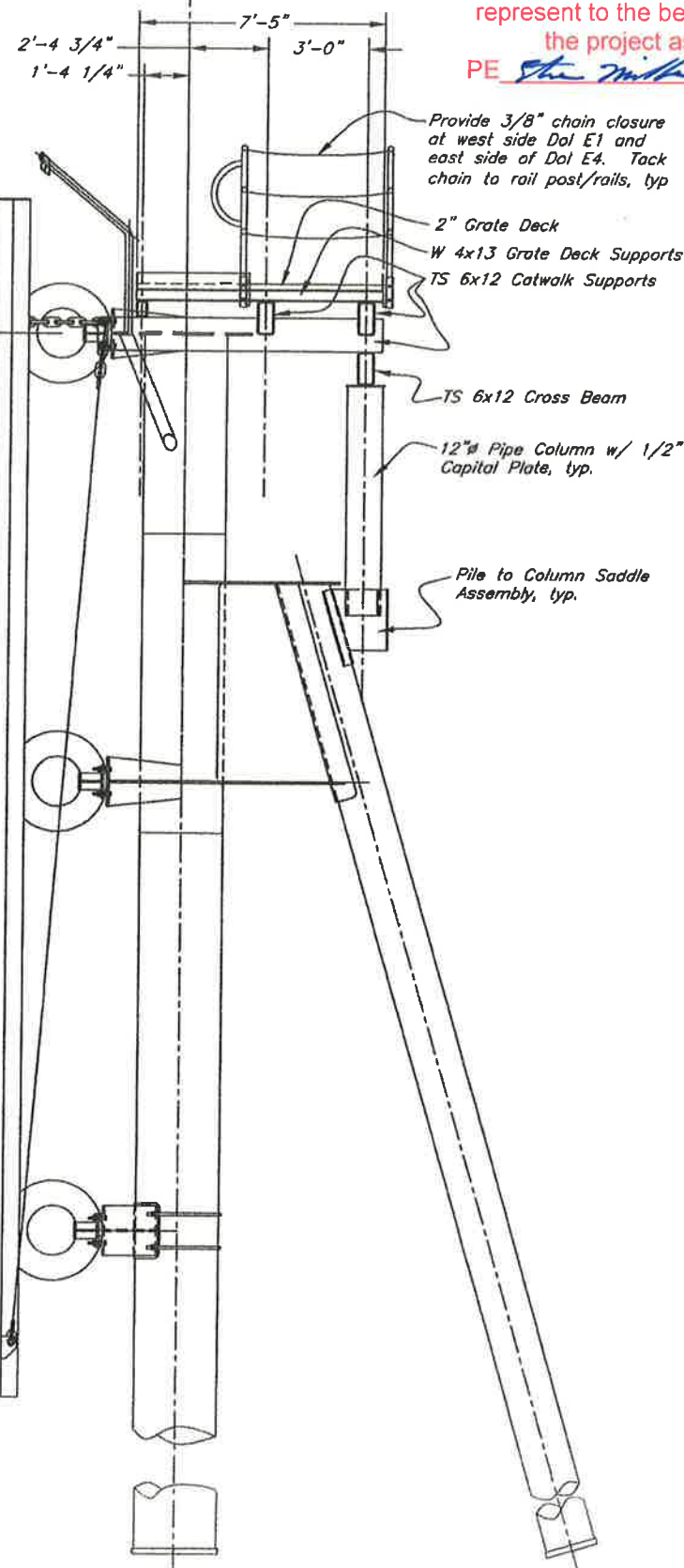
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Journal of Management Inquiry 22(1) 3-14
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DOI: 10.1177/1056492613500791
<http://jmi.sagepub.com>

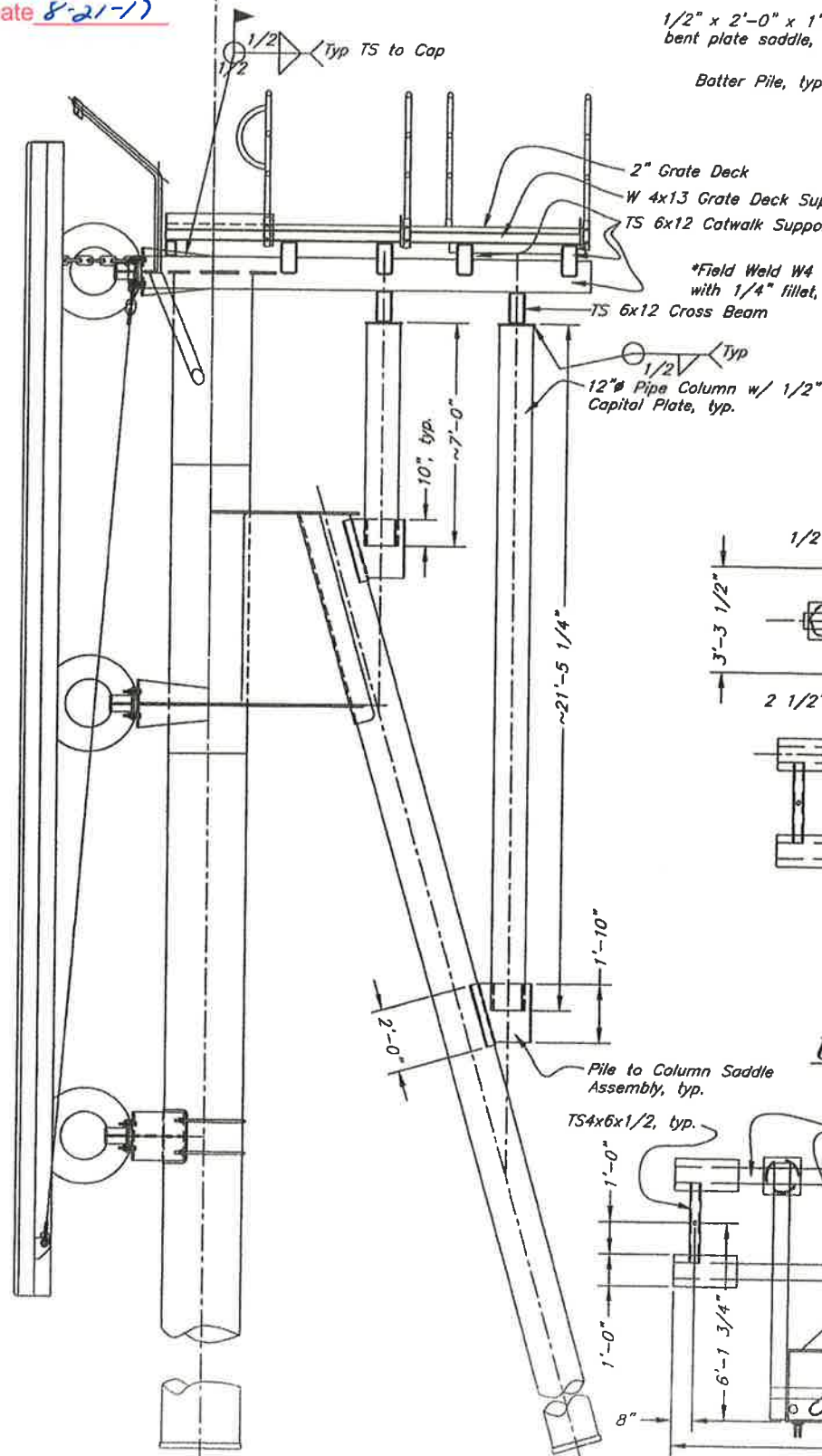
C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Catwalks

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

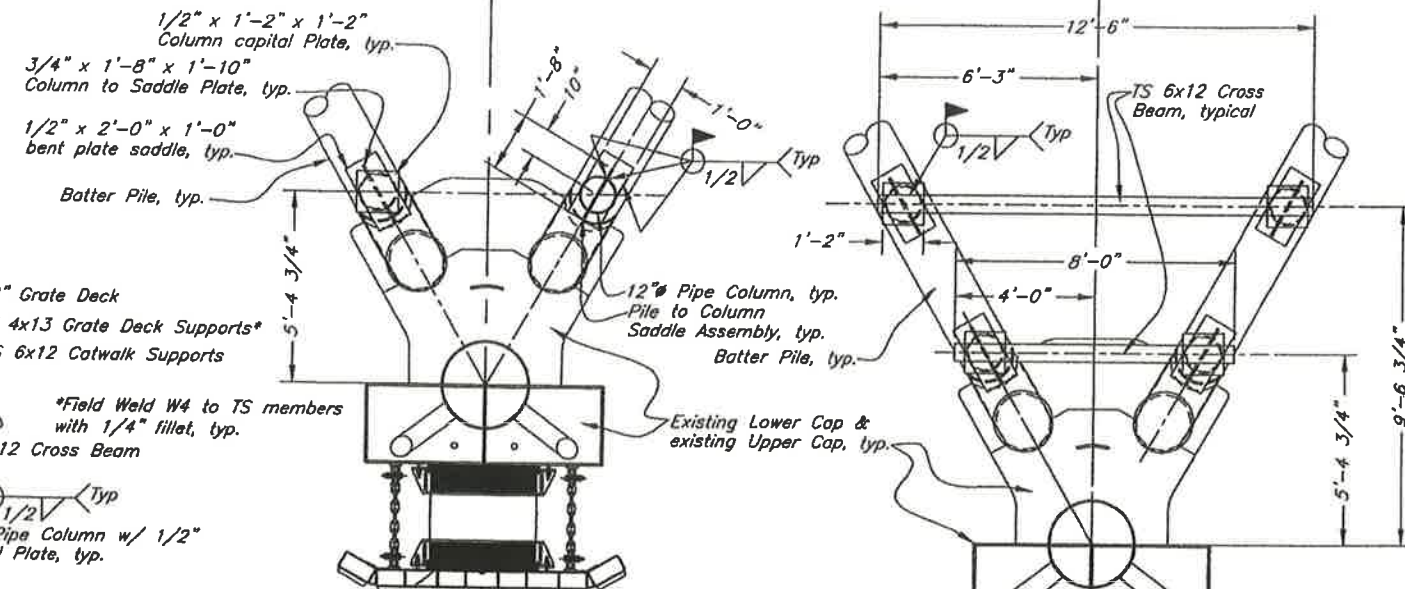
PE Shu Miller Date 8-21-11



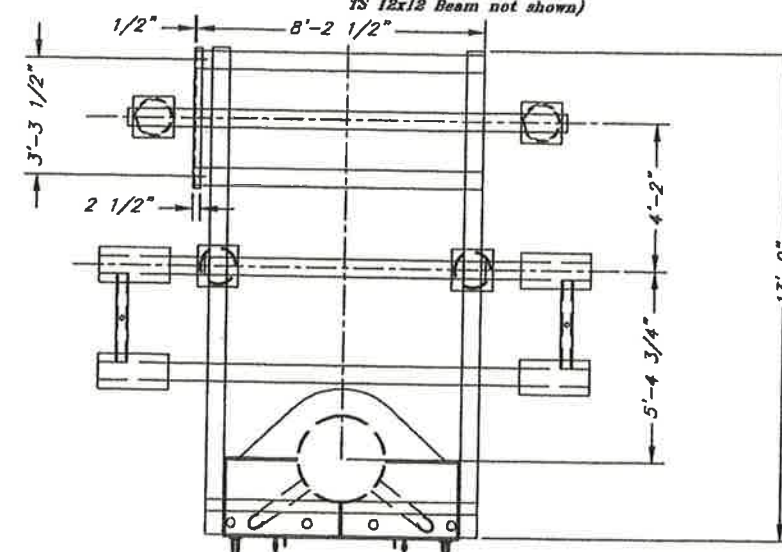
Elev Dolphins E1, E3 & E4
(Mooring & Retrieval Lines not shown)



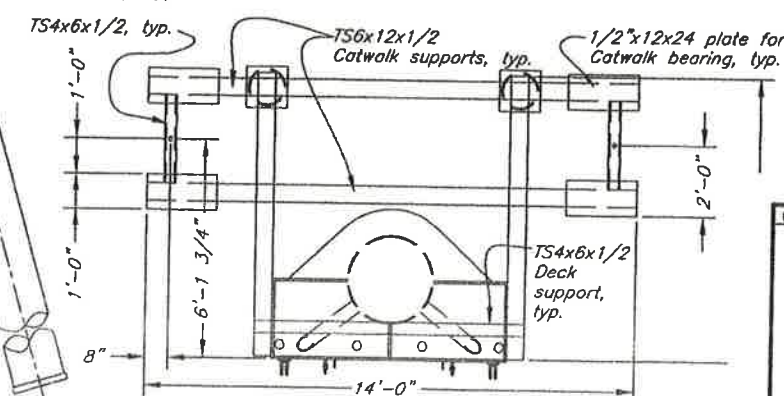
Elev Dolphin E2
(Mooring & Retrieval Lines not shown)



Sectional View E1, E3 & E4
(at bottom of Upper Cap TS 12x12 Beam not shown)

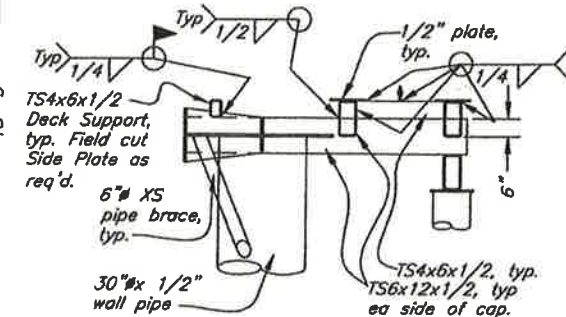


Upper Cap Assembly
(E2 Deck & Catwalk Supports)

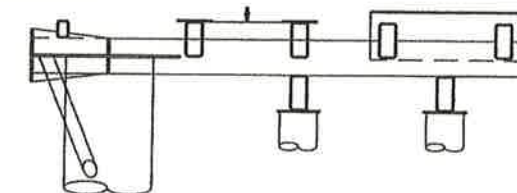


Upper Cap Assembly
(E1, E3 & E4 Deck & Catwalk Supports)

Sectional View E2
(at bottom of Upper Cap)



Elevation
(E1, E3 & E4 Decking removed)



Elevation
(E2 Decking removed)

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DESIGNED BY: J. Scott



CHECKED BY: B. Savikko

DRAWN BY: C. Fuman, W. Hickok

PATH: C:\DOCUMENTS AND SETTINGS\JSCOTT.DOT\DESKTOP\RFP 06 DOLPHIN ACCESS MODS 02.DWG

TAB: Thu, 28/Jan/10 04:13PM

SCOTT, JOHN I (DOT)

REVISIONS

NO. DATE DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

RFP #6

Mooring Structures

E1 - E4

1-28-10

PROJECT DESIGNATION

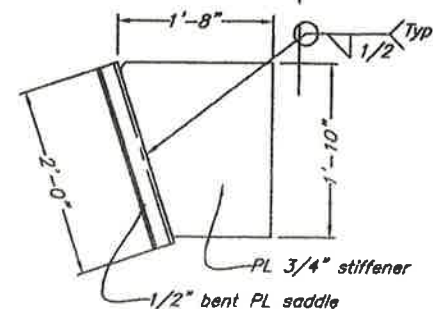
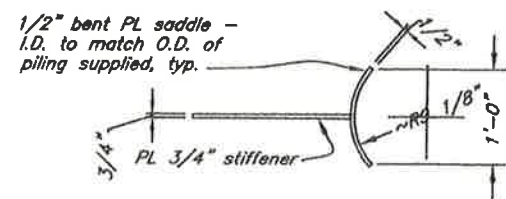
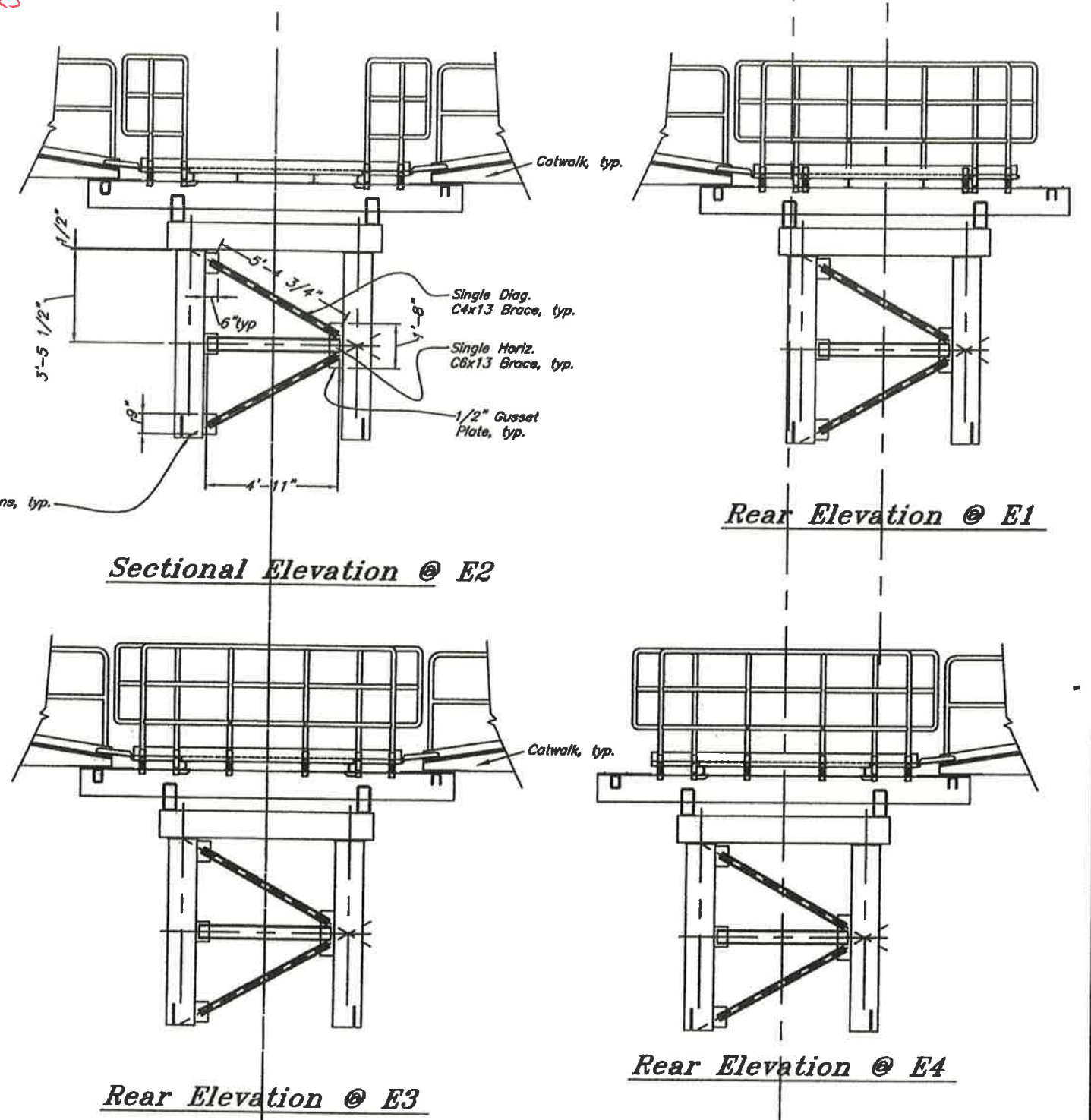
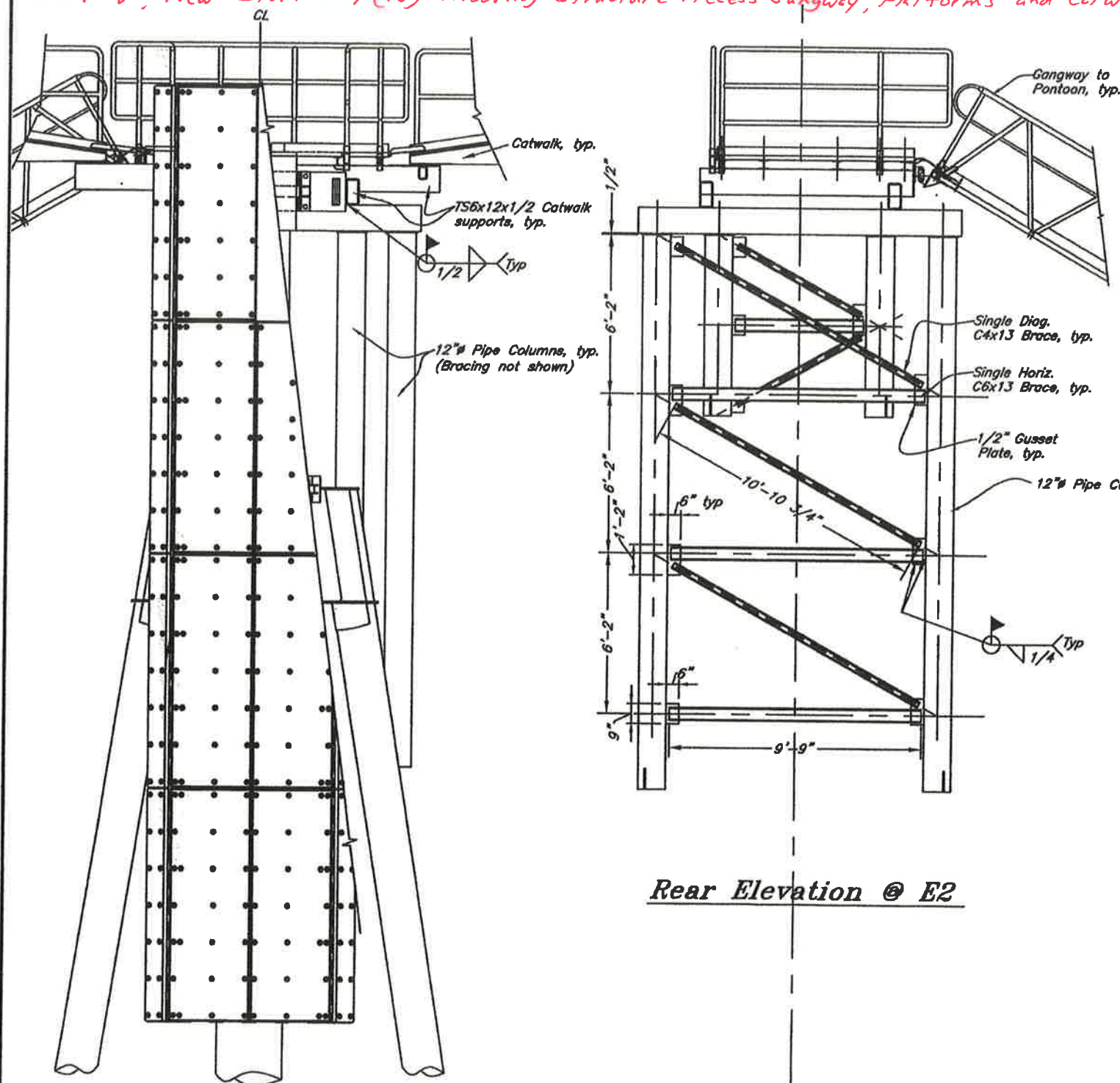
YEAR

SHEET NO.

TOTAL SHEETS

BR-0003(53)/67599 2008 5 8

C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Catwalks

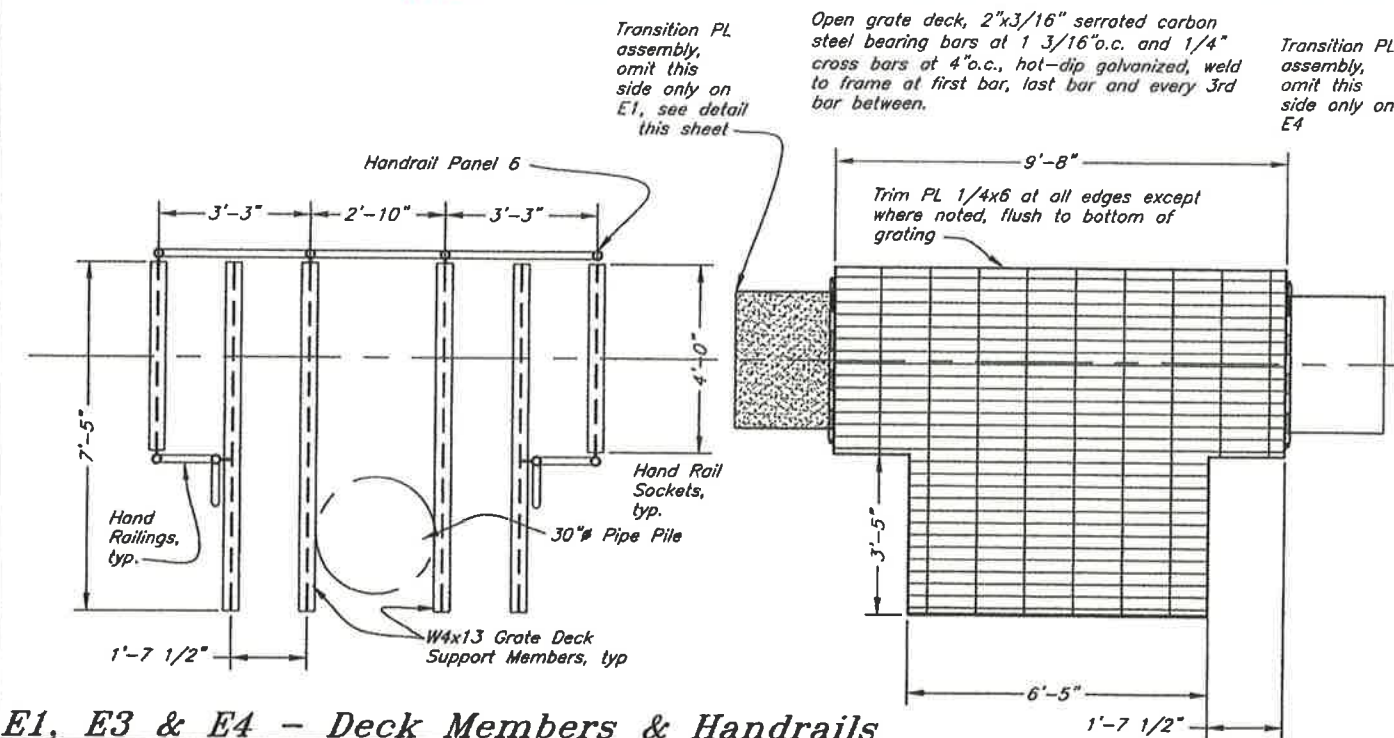


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

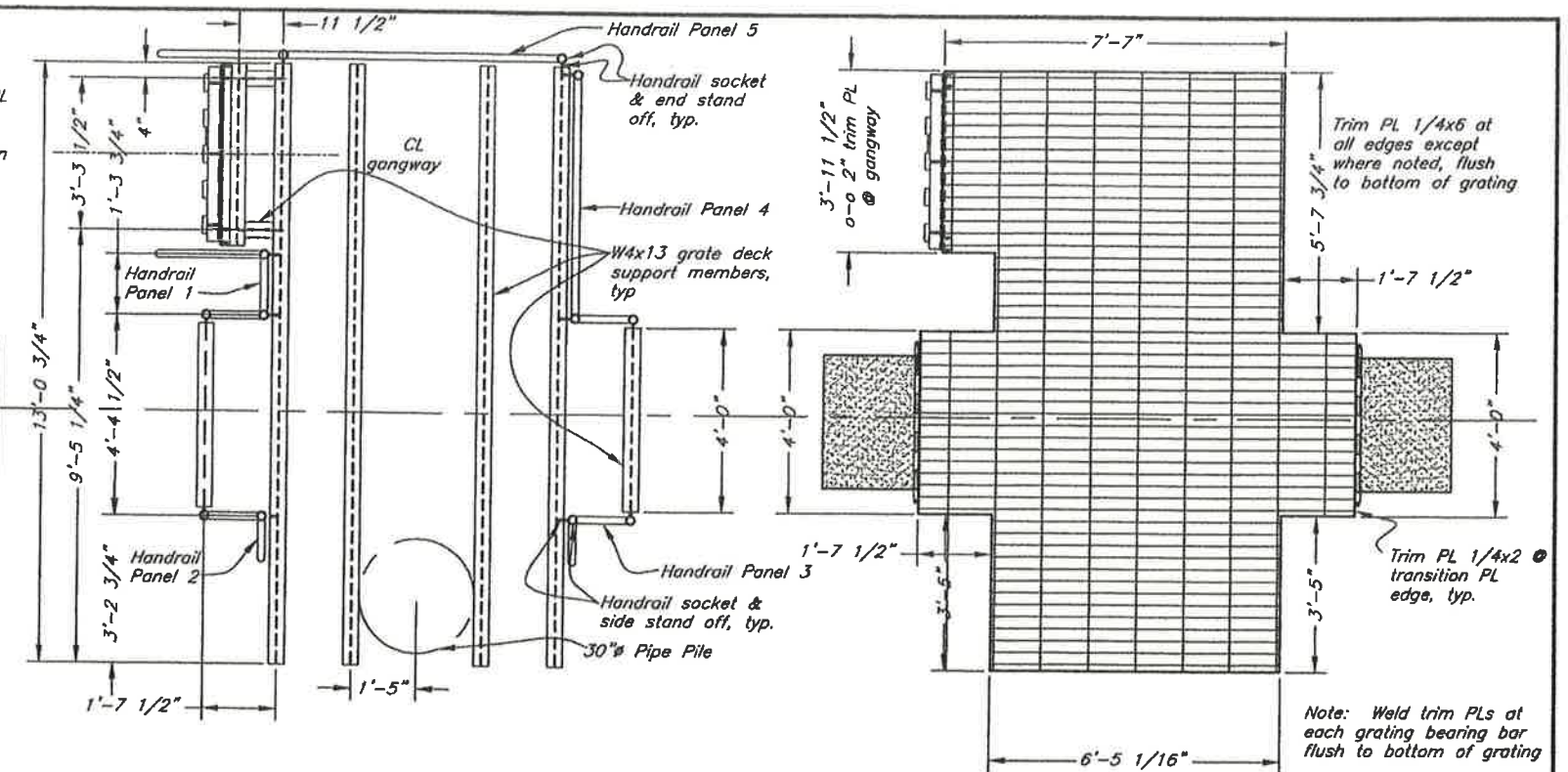
PE *John T. Scott* Date 8-21-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
DESIGNED BY: <i>J. Scott</i>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: <i>B. Savikko</i>		RFP #6	
DRAWN BY: <i>C. Farnan, W. Hiekk</i>		E1 - E4 Dolphin Details	
PATH: G:\DOCUMENTS AND SETTINGS\JTS\DOT\DESKTOP\RFP 06 E1-E4 REAR ELEV.DWG			
TAB: Thu, 28/Jan/10 04:25PM SCOTT, JOHN T (DOT) 20			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	
BR-0003(53)/67599		2008	6
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C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Catwalks



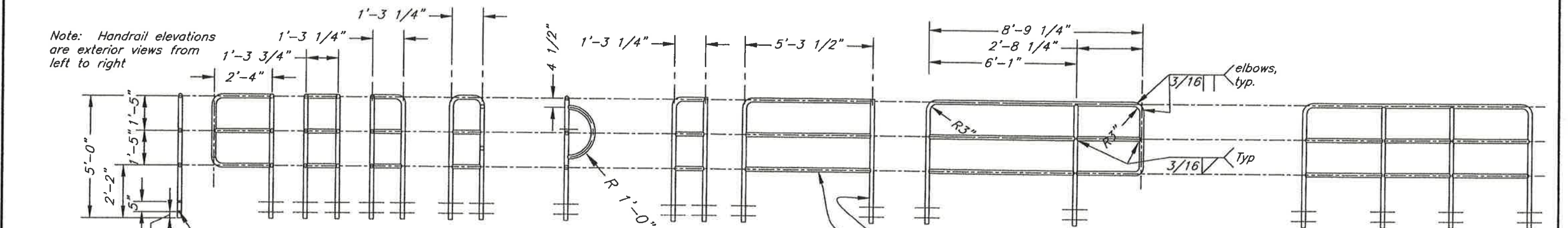
E1, E3 & E4 - Deck Members & Handrails



E2 Grate Decking

E1, E3 & E4 Grate Decking

E2 - Deck Members & Handrails



Panel 1

Panel 2 (as shown)
Panel 3 (opposite hand)

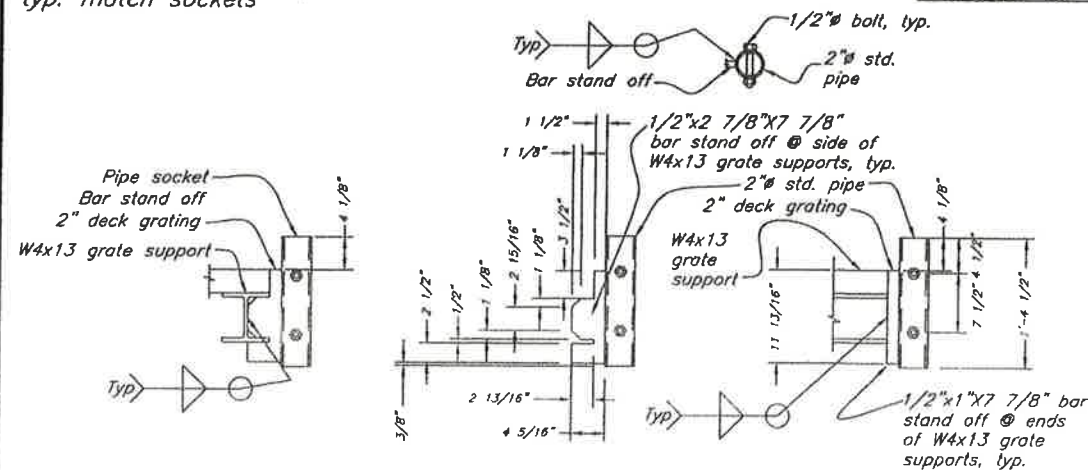
Panel 4

Panel 5

Panel 6

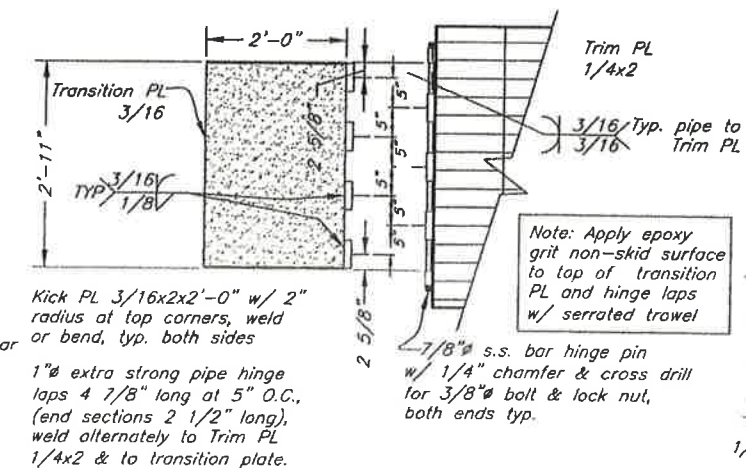
9/16"Ø holes for bolts,
typ. match sockets

Note: Radius corners 3" where shown

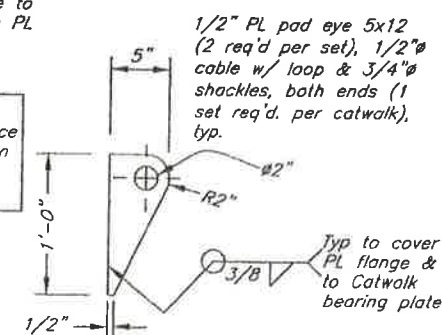


Side Stand Off

nd Off End Stand Off
Handrail Socket & Stand Offs



Transition PL Assembly Plan



Safety Cable Pad Eye

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

PE Steve Miller Date 8/21/17

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DESIGNED BY: J. Scott



CC 1756

LL-4735



100

CHECKED BY: B. Savikko

DRAWN BY: C. Furman, W. H.

PATH: C:\DOCUMENTS AND SETTING\ADMINISTRATOR\LOCAL SETTING\APPLICATIONS\MICROSOFT\OFFICE\OFFICE12\TEMPLATE\STANDARD\STANDARD.DOTX

TAB: Thu, 28/Jon/10

REVISIONS		
NO.	DATE	DESCRIPTION

NO.	DATE	DESC.
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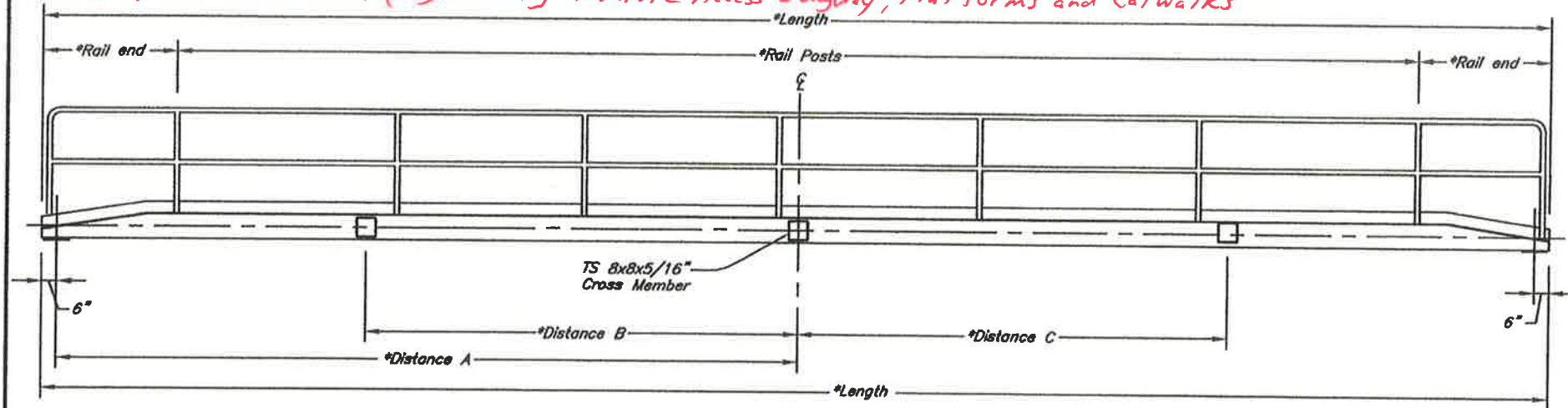
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

~~RFP #6~~
E1 - E4
Dolphin Details

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			BR-0003(53)/67599	2008	7	8

C.O. #8, New Item 504(15) Mooring Structure Access Gangway, Platforms and Catwalks



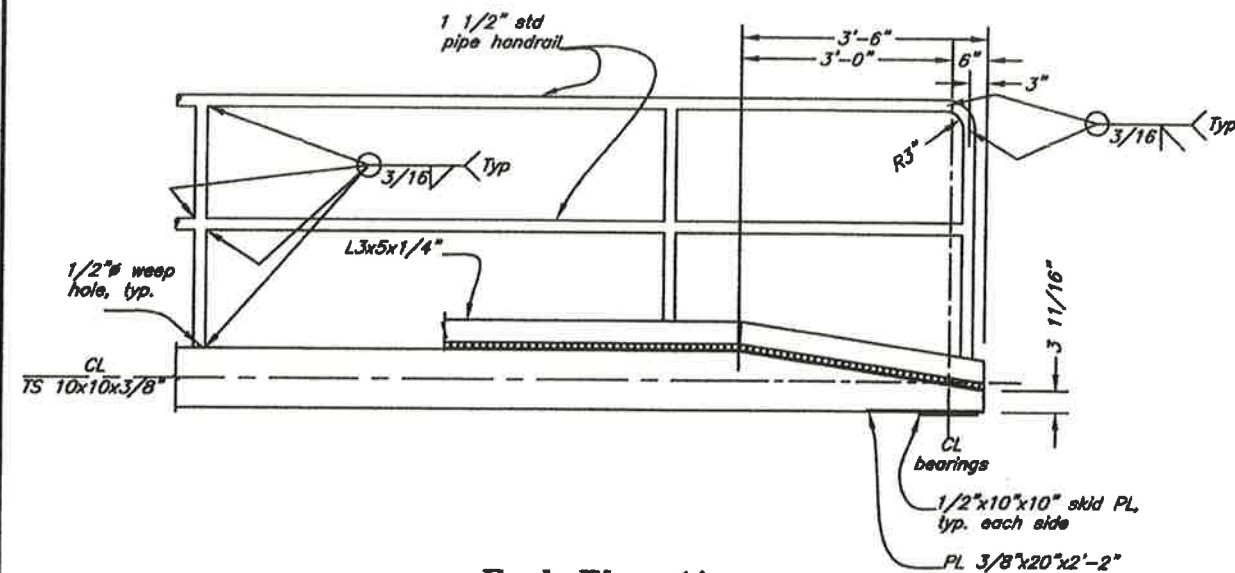
* See Catwalk Table

Catwalk Elevation

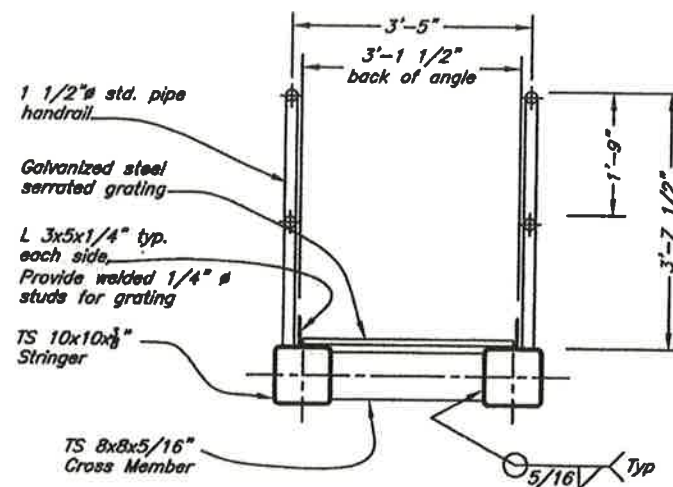
Catwalk Table			
LENGTH	RAIL POSTS	RAIL END	CROSS MEMBERS
34'-0"	4 @ 6' O.C.	5' each end	A = 16'-6" B = 8'-3" C = 8'-3"
64'-0"	9 @ 6' O.C.	5' each end	A = 31'-6" B = 15'-9" C = 15'-9"
31'-6"	4 @ 6' O.C.	3'-9" each end	A = 15'-3" B = 7'-7 1/2" C = 7'-7 1/2"

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

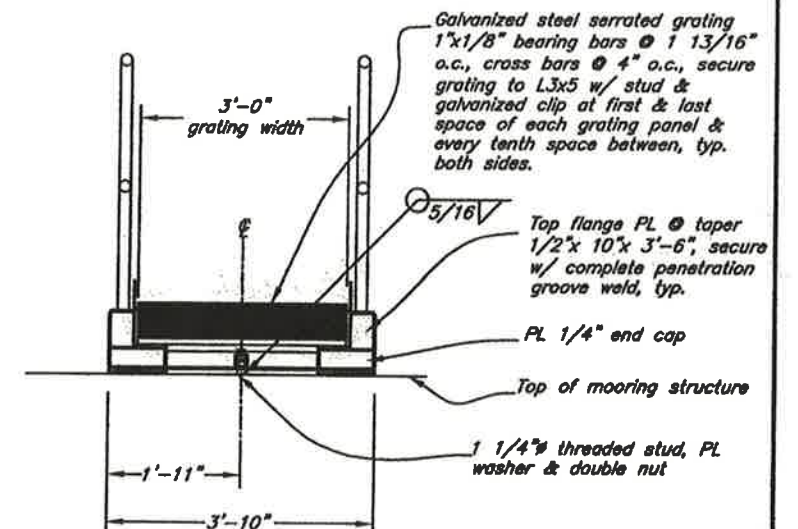
PE Stan Miller Date 8/21/17



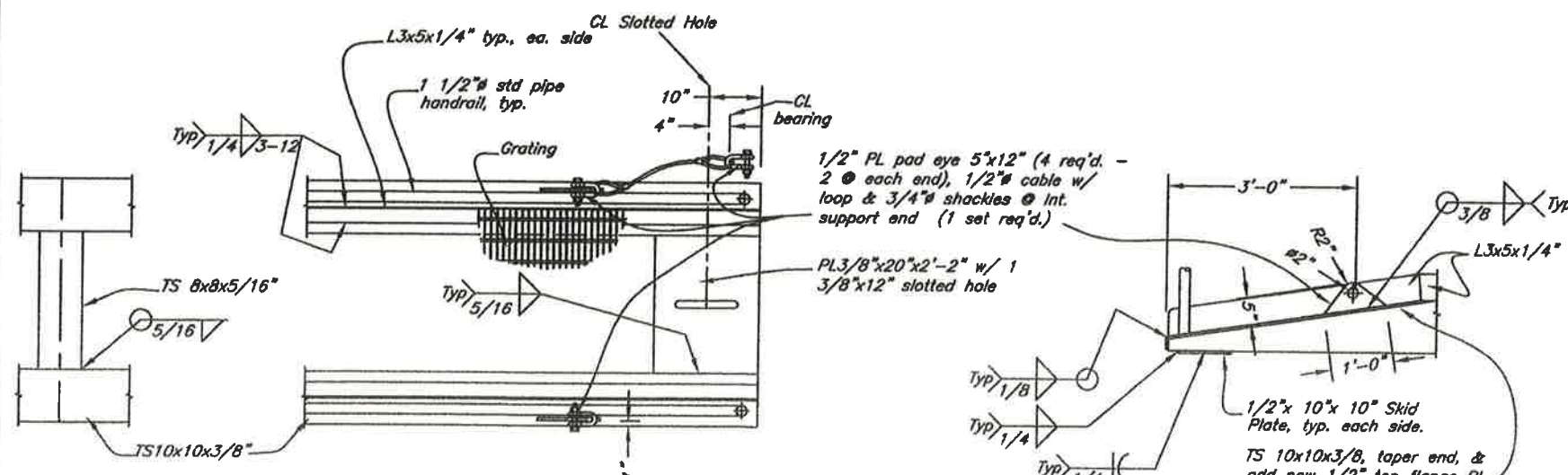
End Elevation



Typical Section

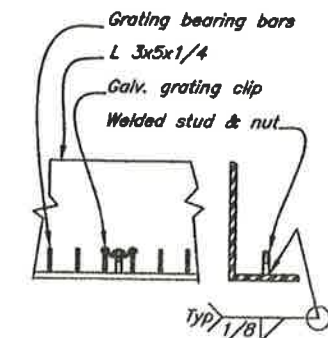


End View @ Tapered End



End Plan

Safety Cable Detail



Note: Space stud & galvanized clip at first & last space of each grating panel & every tenth space between, typ. both sides.

Grate Clip Detail

NOTES:

- 1) The fully erected catwalk structure shall only be supported at the bearings. Catwalks may be lifted at their quarter points by padded straps or by addition of pad eyes at quarter points (submit details).
- 2) Catwalks shall be galvanized.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

RFP #6
Catwalks & Details

CHECKED BY: B. Savikito

DRAWN BY: C. Fumano, W. Hinkel

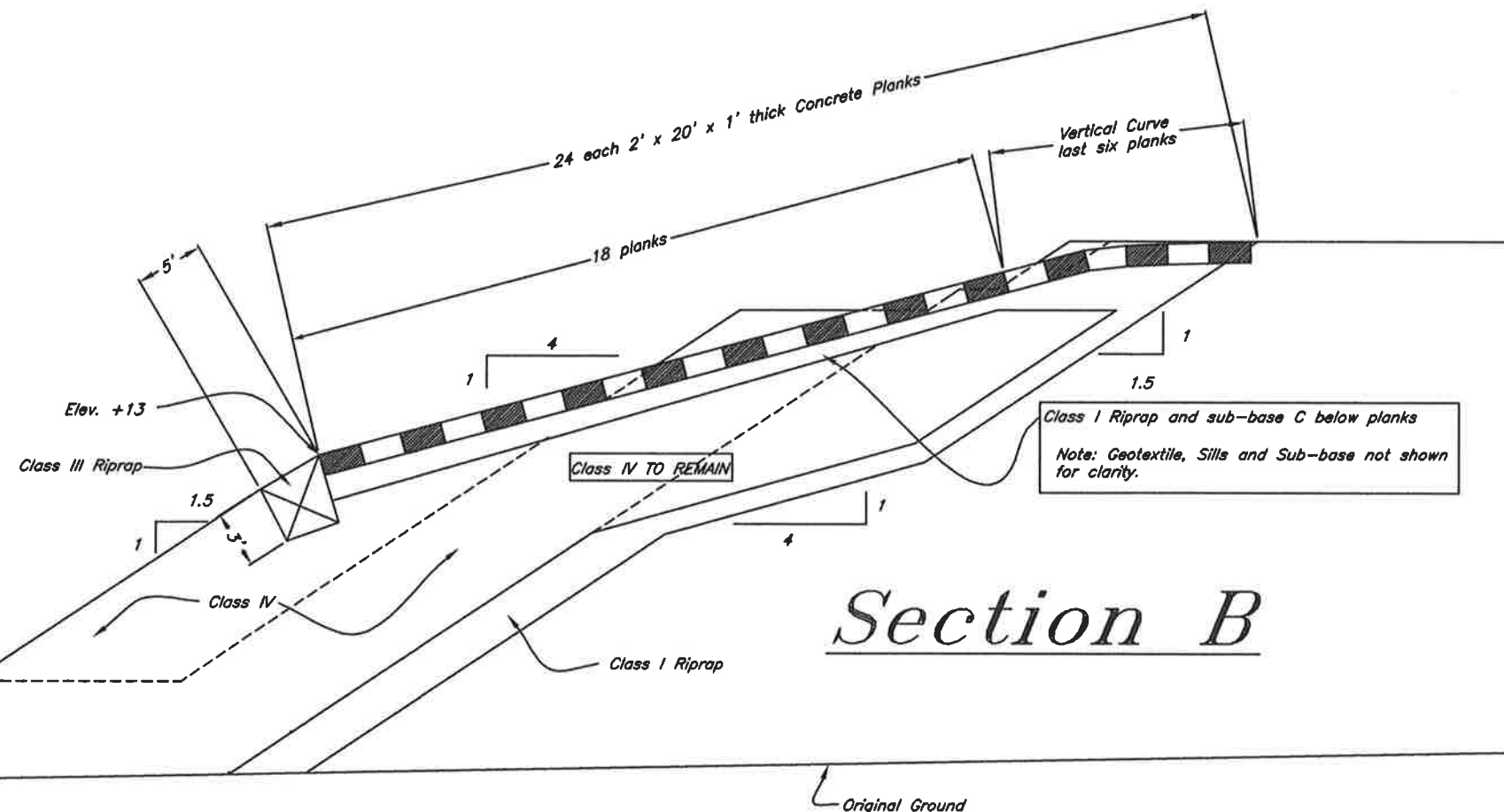
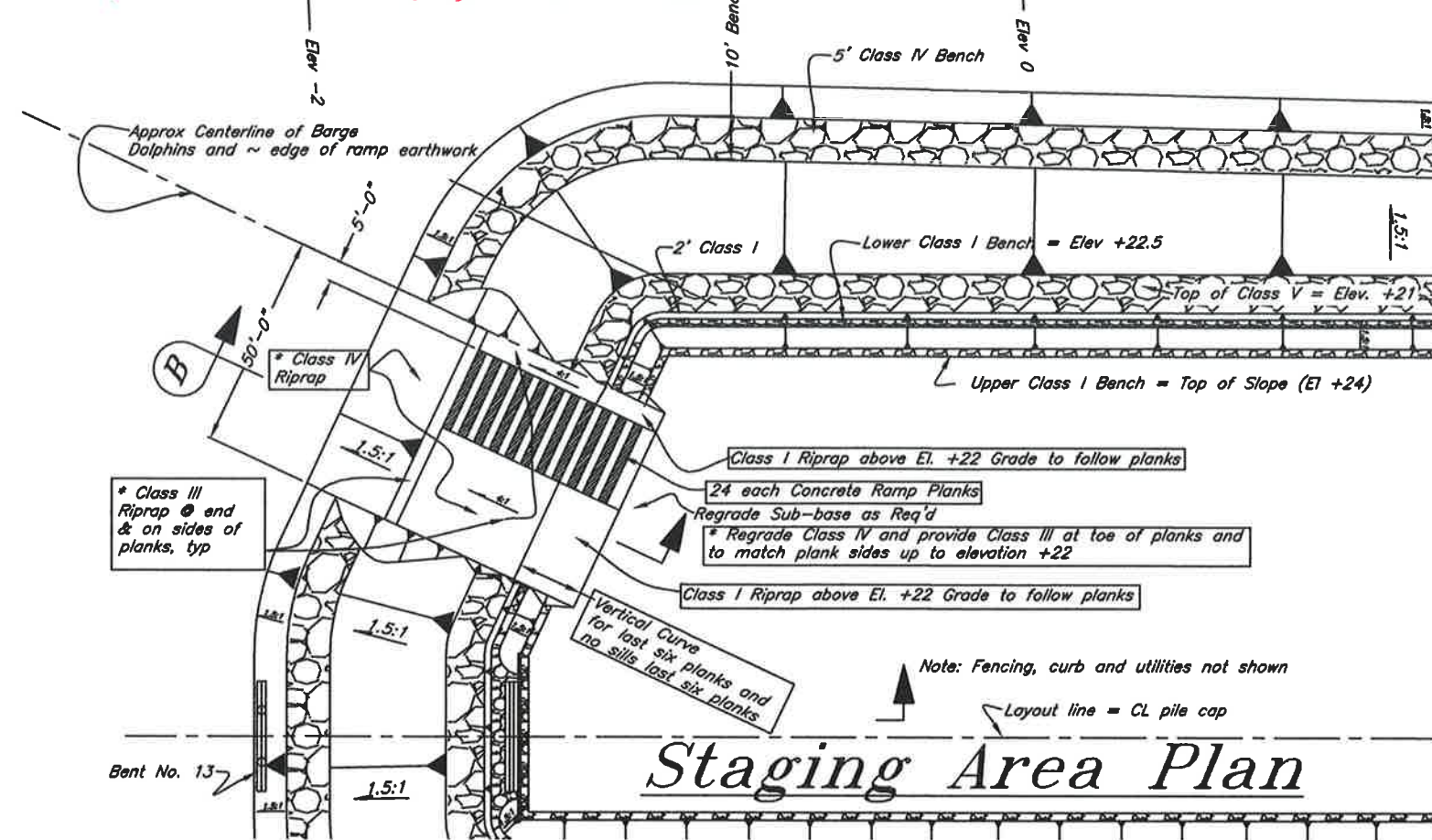
PATH: C:\DOCUMENTS AND SETTINGS\JSCOTT\DOT\DESKTOP\RFP 08 CATWALKS.DWG

TAB: Sun, 24/Jan/10 08:52PM

SCOTT, JOHN T (DOT) 22

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			BR-0003(53)/67599	2008	8	8

C.O. #9, New Item 203(20) Barge Landing Surface Replacement



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE John T. Scott Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott



CHECKED BY: B. Savikko

DRAWN BY: G. Fuman, M. Hichok

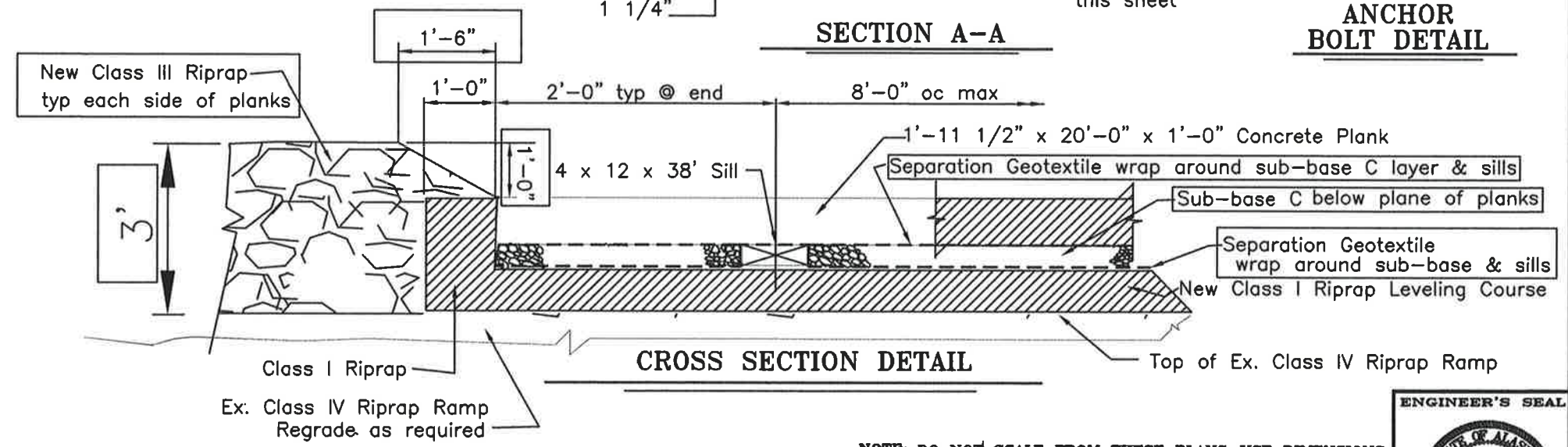
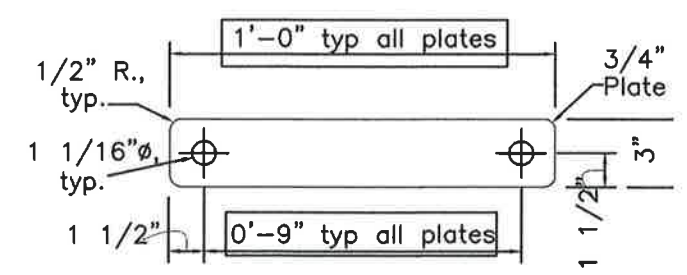
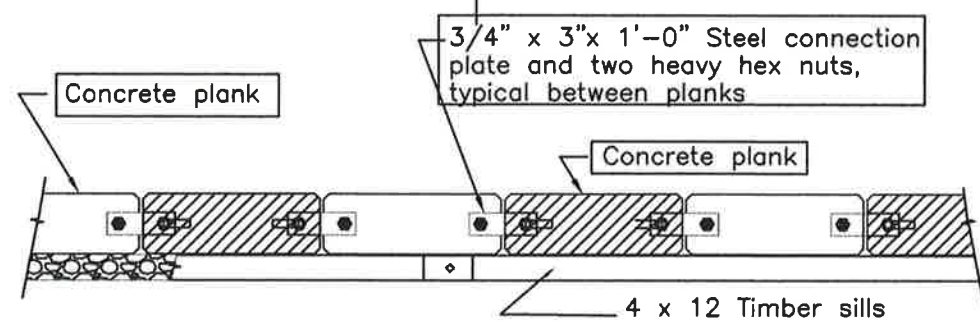
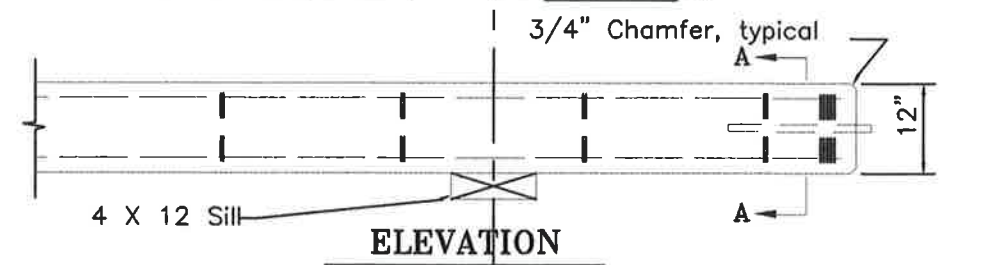
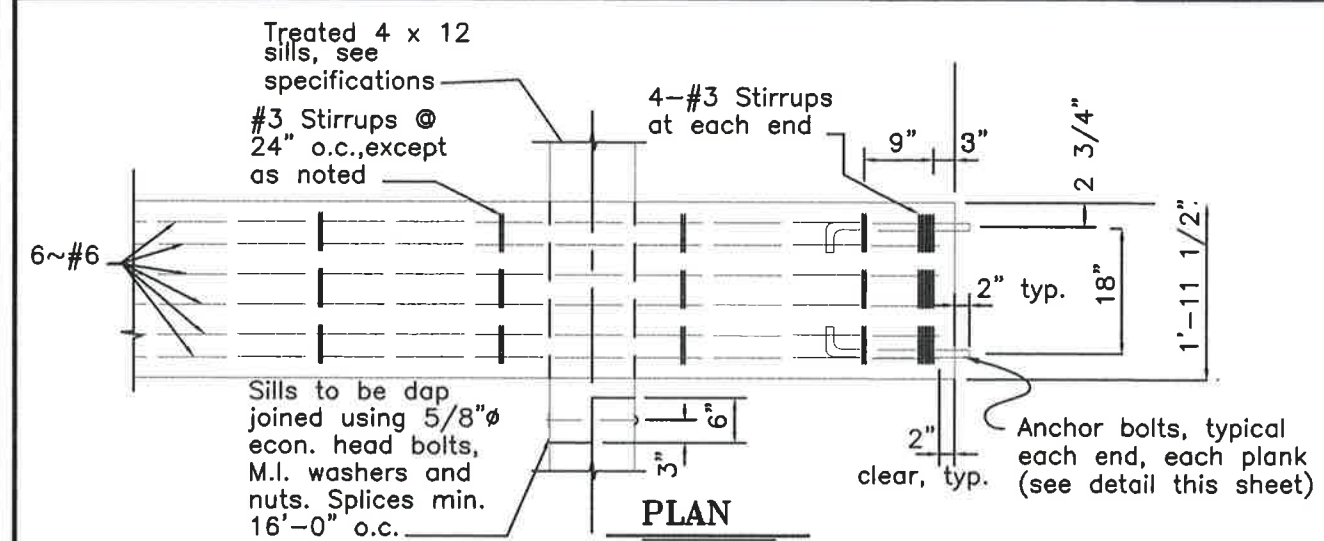
PATH: C:\67599 GUS DOCK\BARGE RAMP PLANK LAYOUT 12-15-08.DWG

TAB: Wed, 16/Jun/10 12:14PM

SCOTT, JOHN T (DOT) 23

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION					
Gustavus Causeway Replacement					
BARGE RAMP SURFACE REPAIR & PLANK LAYOUT					
RFP					
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.
			BR-0003(53)/67599	2008	09
				TOTAL SHEETS	138

C.O.#9, New Item 203(20) Barge Landing Surface Replacement



NOTES :

Separation Fabric must be placed under and wrapped over the sills (as shown).

Concrete shall be CLASS AA per Section 501 of the Specifications.

Reinforcing steel f_y = 60,000 psi. typical, except Stirrups, f_y = 40,000 psi.

All reinforcing steel shall be hot-dip galvanized.

All bolts, nuts & plates shall be hot-dip galvanized. Bolts & nuts shall have loose fit to allow installation without chasing threads.

BASIS OF ESTIMATE:

Concrete Ramp Planks - 24 each planks and as req'd for hardware and sills

Class I Riprap - ~ 100 CY

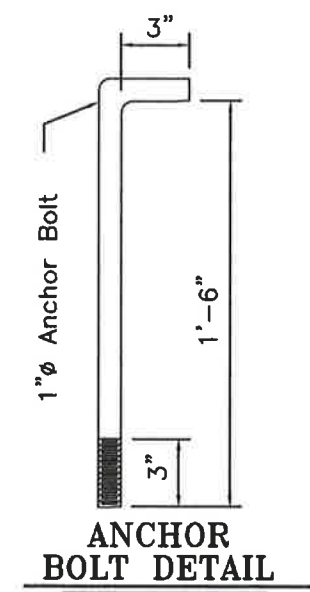
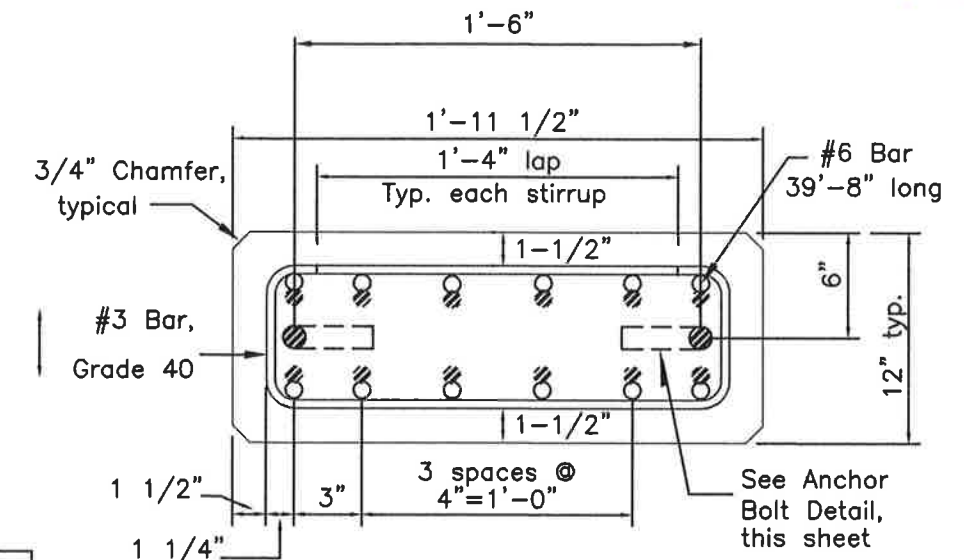
Class III Riprap - ~ 125 CY

Sub-base C - ~ 40 CY

Geotextile - ~ 900 SY

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

PE Steve Miller Date 8-21-17



BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

GUSTAVUS
GUSTAVUS CAUSEWAY REPLACEMENT
PROJECT NO. 87599
BARGE/SNOW RAMP, CONCRETE PLANK DETAILS

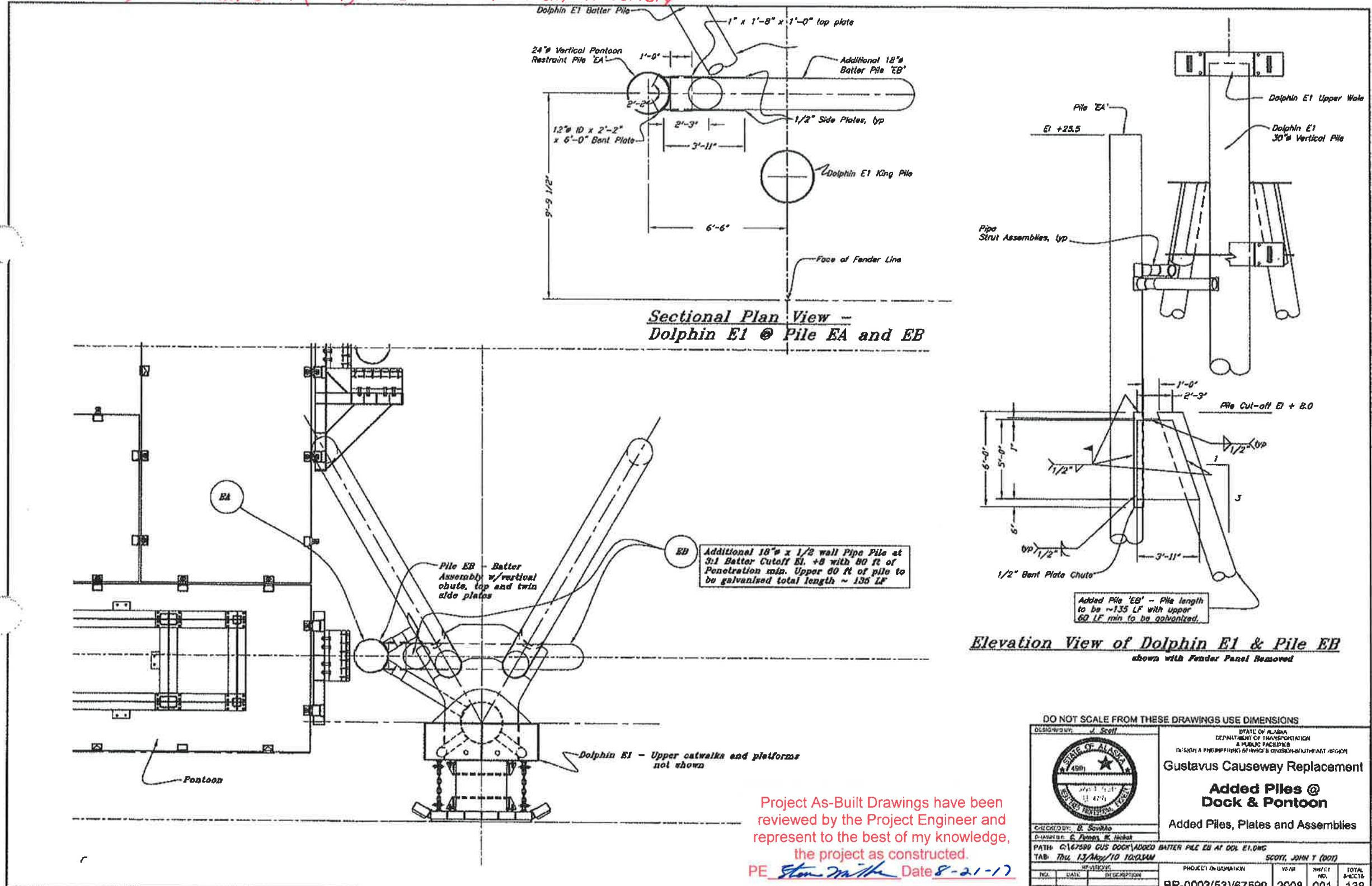
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY:	JAL/JS	PROJECT NO.	XXXXX
DRAWN BY:	BN/JS	DATE:	APR, 2006
CHECKED BY:	JTS	SHEET 3	OF XX





C.O. #12, New Item 504(13A) Pile EB Attachment Assembly

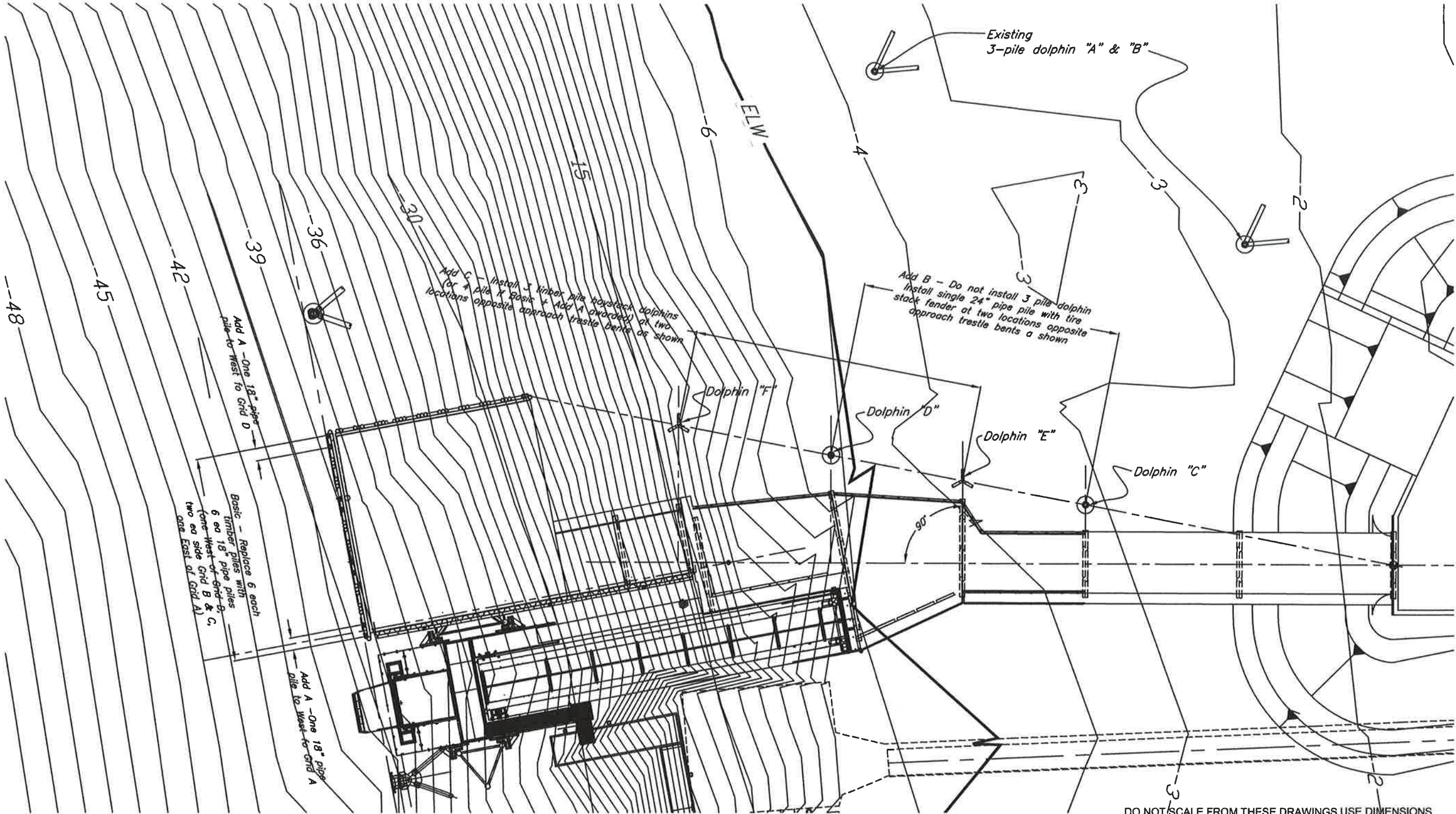


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE Sten M. Miller Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS				
DESIGNER: J. Scott  CHECKED BY: B. Sowles DESIGNED BY: G. Jones, R. Hobart PATH: C:\67899 GUS DOCK\ADDED BATTER PILE EB AT DOL E1.DWG TAB: TAB 13/10/10 TO SLM		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & CONSTRUCTION DIVISION Gustavus Causeway Replacement Added Piles @ Dock & Pontoon Added Piles, Plates and Assemblies		
SCOTT, JOHN T (2007)				
PROJECT INFORMATION	YEAR	SHEET NO.	TOTAL SHEETS	
BR-0003(53)/67599	2008	001	138	

CO #12 Attachment #1 1/1

C.O. #14, New Item 504(12A) Additional Barge Landing Dolphins



Barge Landing Dolphin Layout



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

PE Steve Smith Date 8-21-17

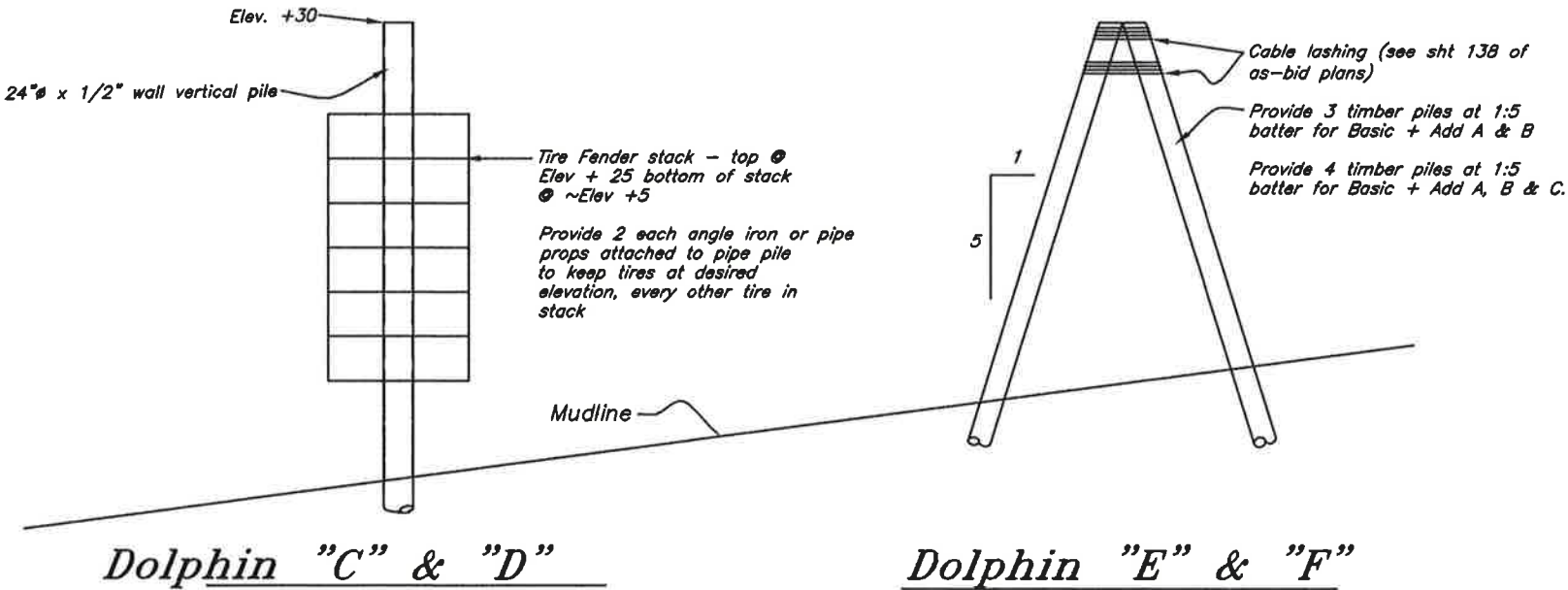
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: <u>J. Scott</u>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: <u>B. Savitko</u>		Barge Landing East Dolphins	
DRAWN BY: <u>C. Fuman, M. Hickok</u>		Dolphins C thru F	
PATH: <u>C:\67599 GUS DOCK\BARGE LANDING DOLPHINS 8-20-10.DWG</u>		SCOTT, JOHN T (DOT) <u>27</u>	
TAB: <u>Fri, 20/Aug/10 02:33PM</u>			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	NO.
		BR-0003(53)/67599	2008
		SHEET NO.	TOTAL SHEETS
		04	138

C.O. # 14, New Item 504(12A) Additional Barge Landing Dolphins

PILE TABLE - Temporary Dolphins C - F										
STRUCTURE & Type	ORIENTATION	No. of PILES	DIA. Type	DESIGN CAPACITY (TONS)		ELEVATIONS			PAY LGT.	INSTALL LGT.
				BEARING	UPLIFT	~ D.G.	CUT-OFF	TIP		
Dolphin C	Vertical	1	24" P	N/A	N/A	-3	30	-50	80' ea	80
Dolphin D	Vertical	1	24" P	N/A	N/A	-6	30	-50	80' ea	80
Dolphin E	Batter	3*	18" T	N/A	N/A	-4	30	-30	60' ea **	180
Dolphin F	Batter	3*	18" T	N/A	N/A	-13	30	-40	70' ea **	210
TOTAL Furn.									160' Pipe	480' Timber
TOTAL Driven									2 Pipe	6# Timber

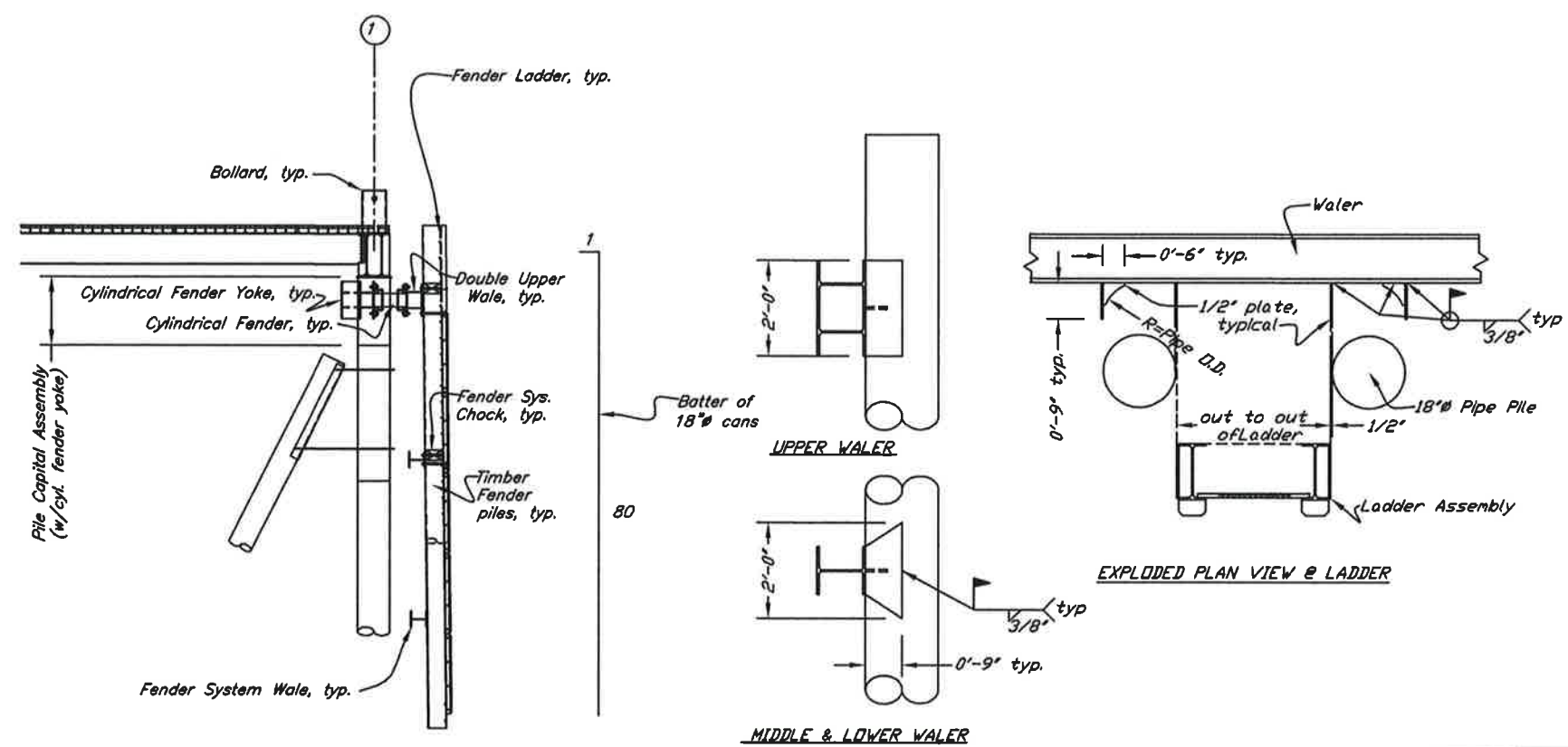
- Note:
- All pipe piles 1/2" wall thickness open ended - no tip reinforcement
 - All timber piles driven tip down and battered at 1:5, cut off tip to obtain desired installed length.
 - Lash timber piles per as-bid plans sheet 138
(2 rows of 4 rounds of 3/4" # lashing and staples)
- * If Add C awarded increase piles at Dol E & F to 4 each batters
** Pay for 80' stick but cut off at tip to obtain desired installed length



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE John T. Scott Date 8-21-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
DESIGNED BY: <u>J. Scott</u>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: <u>B. Savitko</u>		Barge Landing Eastern Dolphins	
DRAWN BY: <u>C. Fuman, W. Hickok</u>			
PATH: <u>C:\67599 GUS DOCK\BARGE LANDING DOLPHINS 8-20-10.DWG</u>			
TAB: <u>Fri 20/Aug/10 02:30PM</u>		SCOTT, JOHN T (DOT) <u>28</u>	
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
			138
BR-0003(53)/67599		2008	04

C.O.*15, New Item 504(28) Dock Front Fender Modifications



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Sten M. Miller Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott



CHECKED BY: B. Savikko

DRAWN BY: G. Fuman, M. Hickok

PATH: C:\67599 GUS DOCK\FRONT FENDERTYPICAL SECTIONS.DWG

TAB: Fri 20/Aug/10 04:41PM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement
Dock Front Fender
Typical Section
Fender Pipe Pile Details

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT DESIGNATION

YEAR

SHEET NO.

TOTAL SHEETS

BR-0003(53)/67599

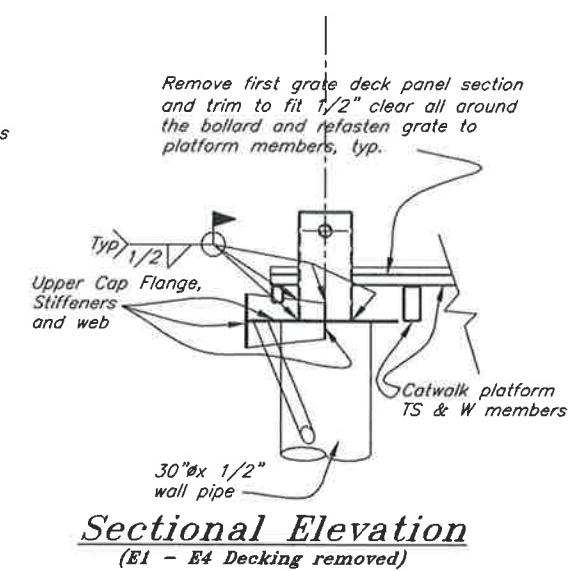
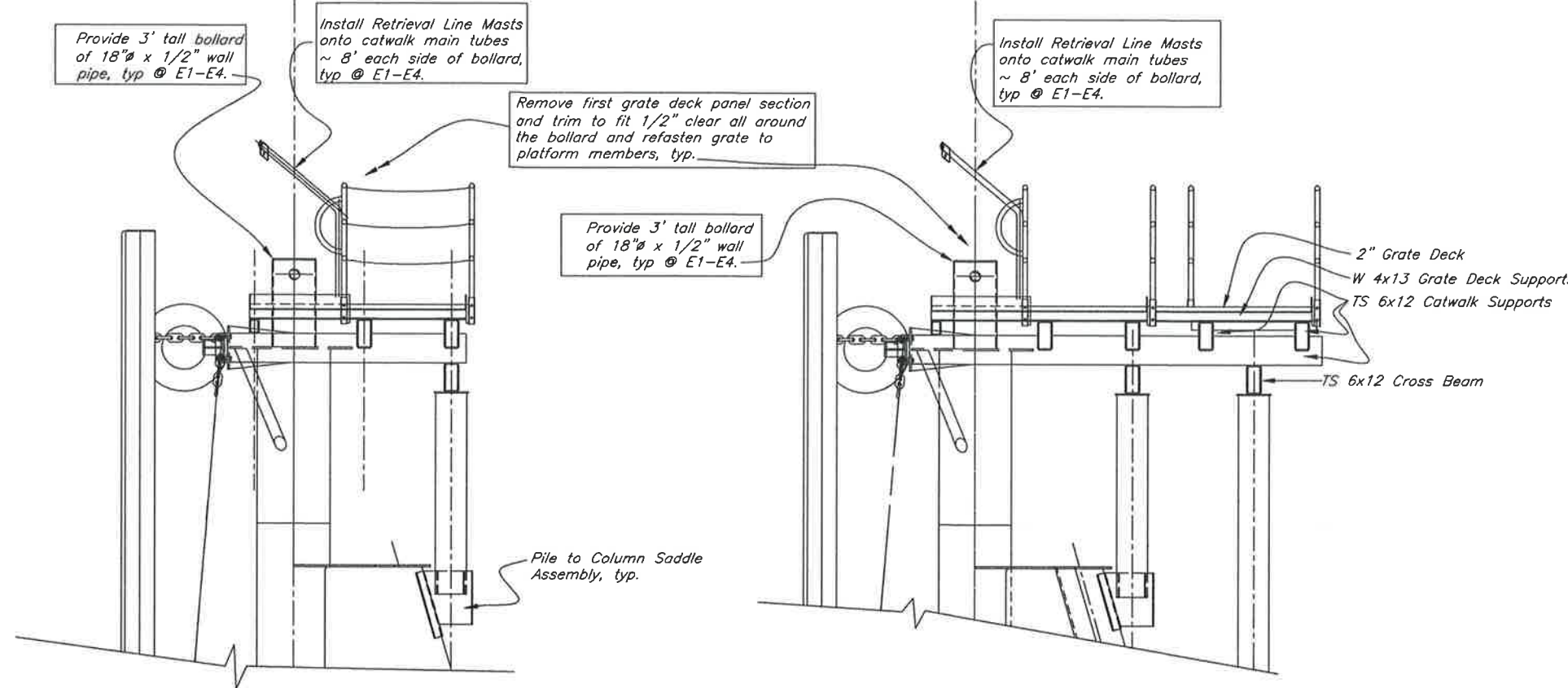
2008

53

138

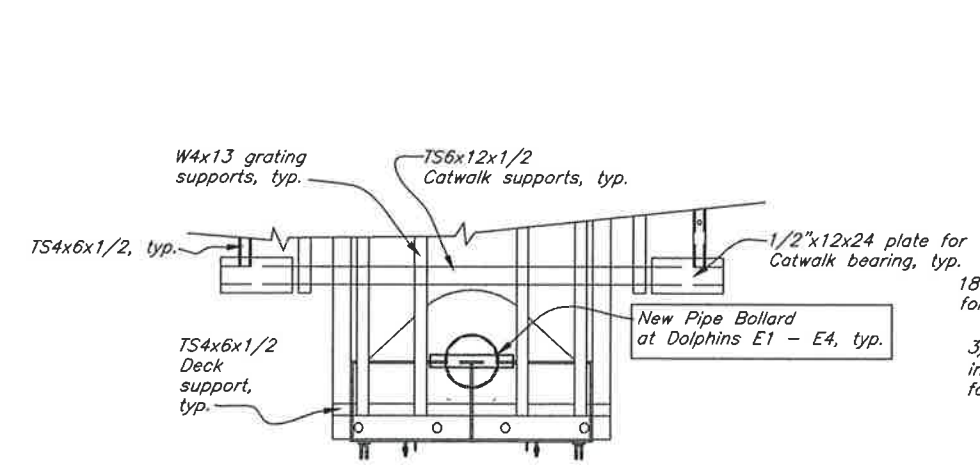
SCOTT, JOHN T (DOT) 29

C.O. #16, New Item 504(16) Ladder and Line Handling Modifications

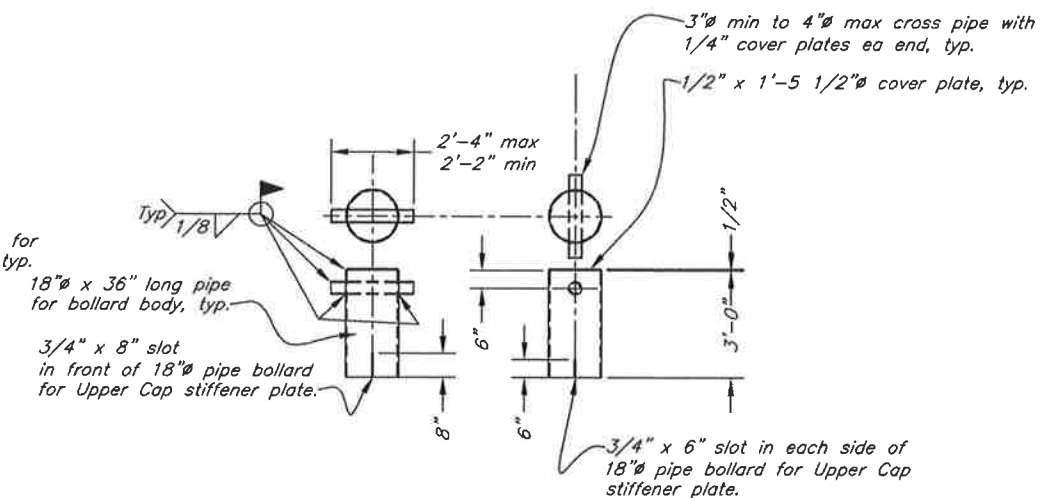


Elev Dolphins E1, E3 & E4
(Mooring & Retrieval Lines not shown)

Elev Dolphin E2
(Mooring & Retrieval Lines not shown)



Upper Cap Assembly



Pipe Bollard Details

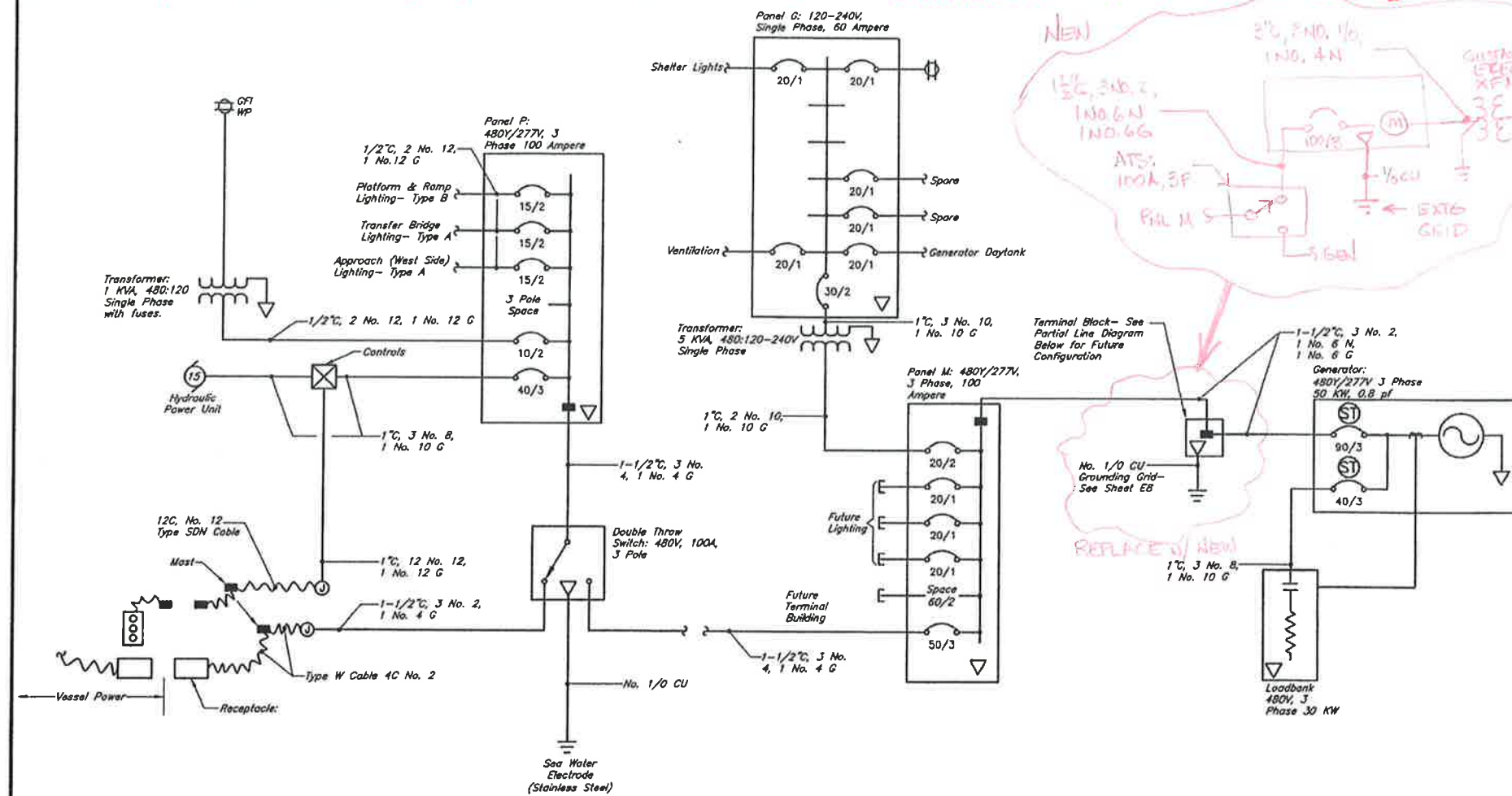
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Sh. M. M. Date 8-21-17

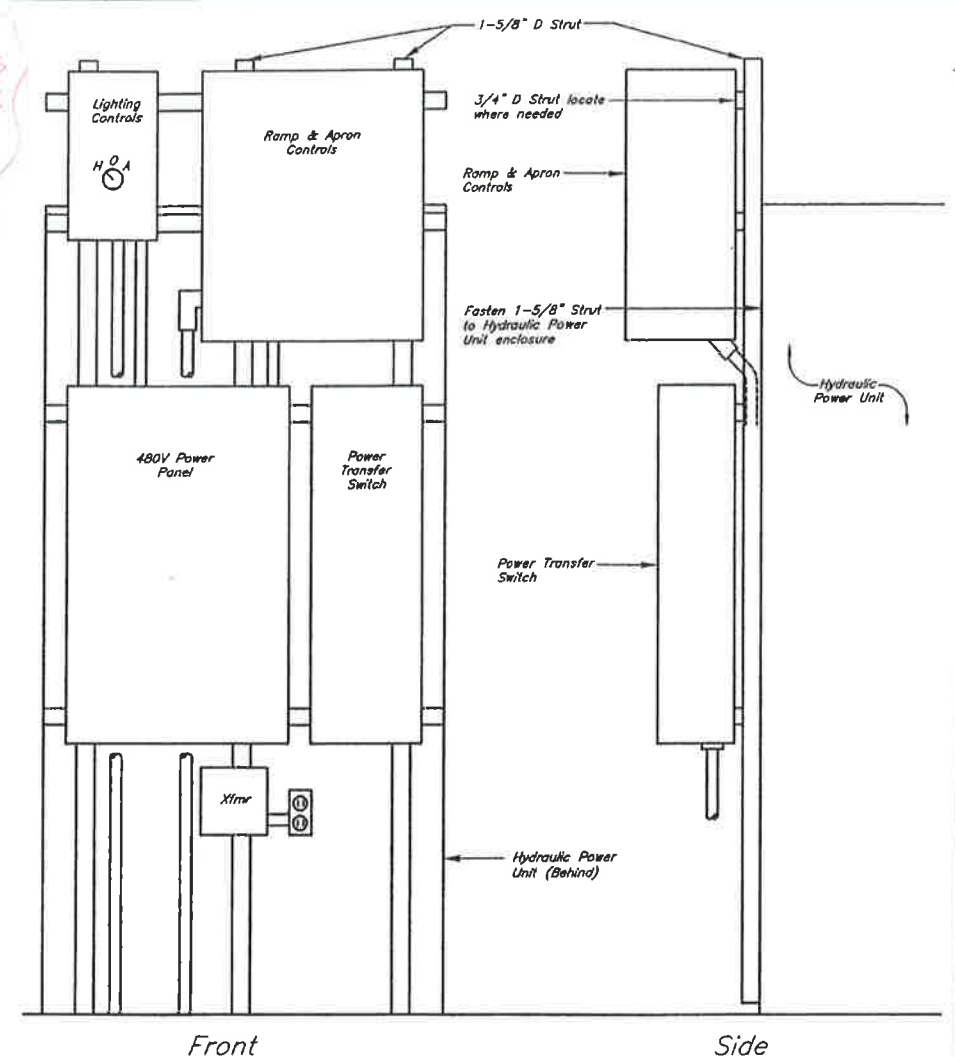
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: B. Savikko		RFP #13	
DRAWN BY: G. Fuman, W. Hickok		Bollard and Masts @ Mooring Structures E1- E4	
PATH: H:\RFP 13 DOLPHIN BOLLARD DETAILS.DWG		SCOTT, JOHN T. (DOT) 3/	
TAB: Tue, 07/Sep/10 04:07PM			
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NO.	DATE	DESCRIPTION	YEAR
		BR-0003(53)/67599	2008
		SHEET NO.	117
		TOTAL SHEETS	138

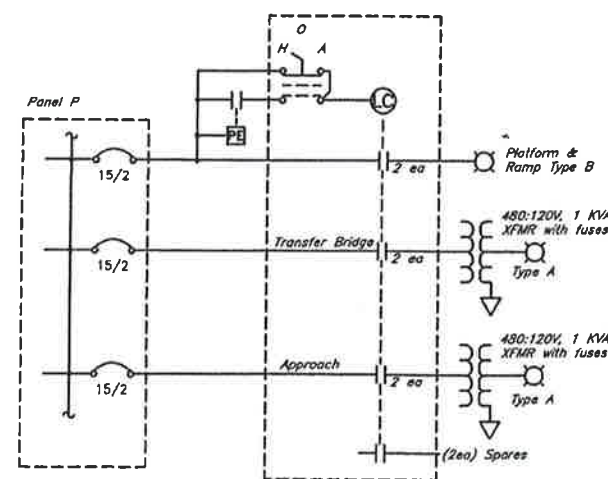
C.O. #20, New Item 662(02) Commercial 3-Phase Power Connection and 50 pr Telcom Cabling



Single Line Diagram - Power Distribution
No Scale

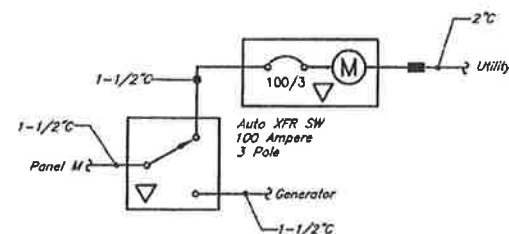


Elevation - Electric Panels
No Scale

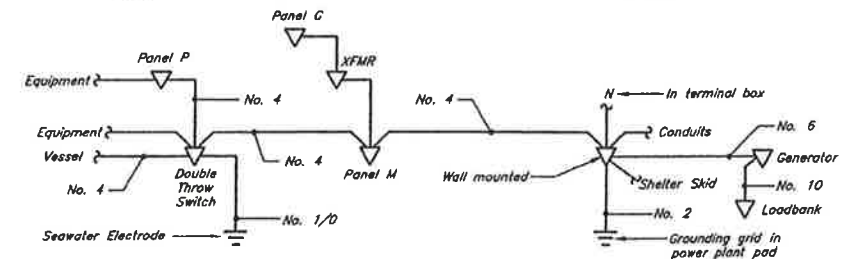


Note: Mount the Photo Electric Cell at top of adjacent pole supporting a Type B Luminaire.

Schematic Diagram - Lighting Controls
No Scale



Partial Line Diagram - Future Utility
No Scale



Single Line Diagram - Grounding System
No Scale

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

PE *[Signature]* Date 8-21-12

HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
526 MAIN STREET
Juneau, Alaska 99801
(907) 586-9788
Fax (907) 586-5774

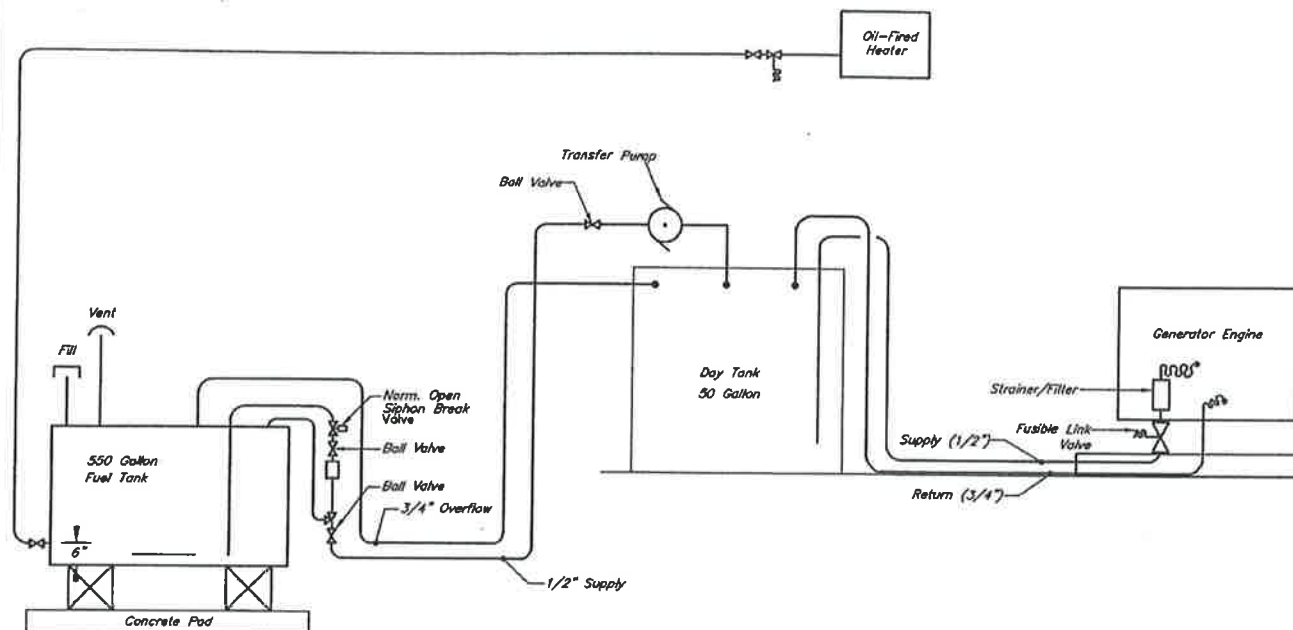
DESIGNED BY: B. Haight
CHECKED BY: BCH
DRAWN BY: REJ
PATH: Dec 05, 2008 - 8:53am
PLOT: F:\Projects\134 State of Alaska DOT\116 Gustavus Causeway Buildout\Drawings\E7.dwg (Layout1 tab)

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION**

Gustavus Causeway Replacement

Sheet E7
Single Line Diagram

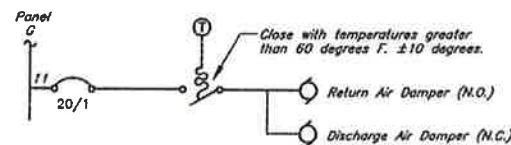
NO.	DATE	REVISIONS	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	8-21-12	1	AS-BUILT	BR-0003(53)/67599	2008	129	138



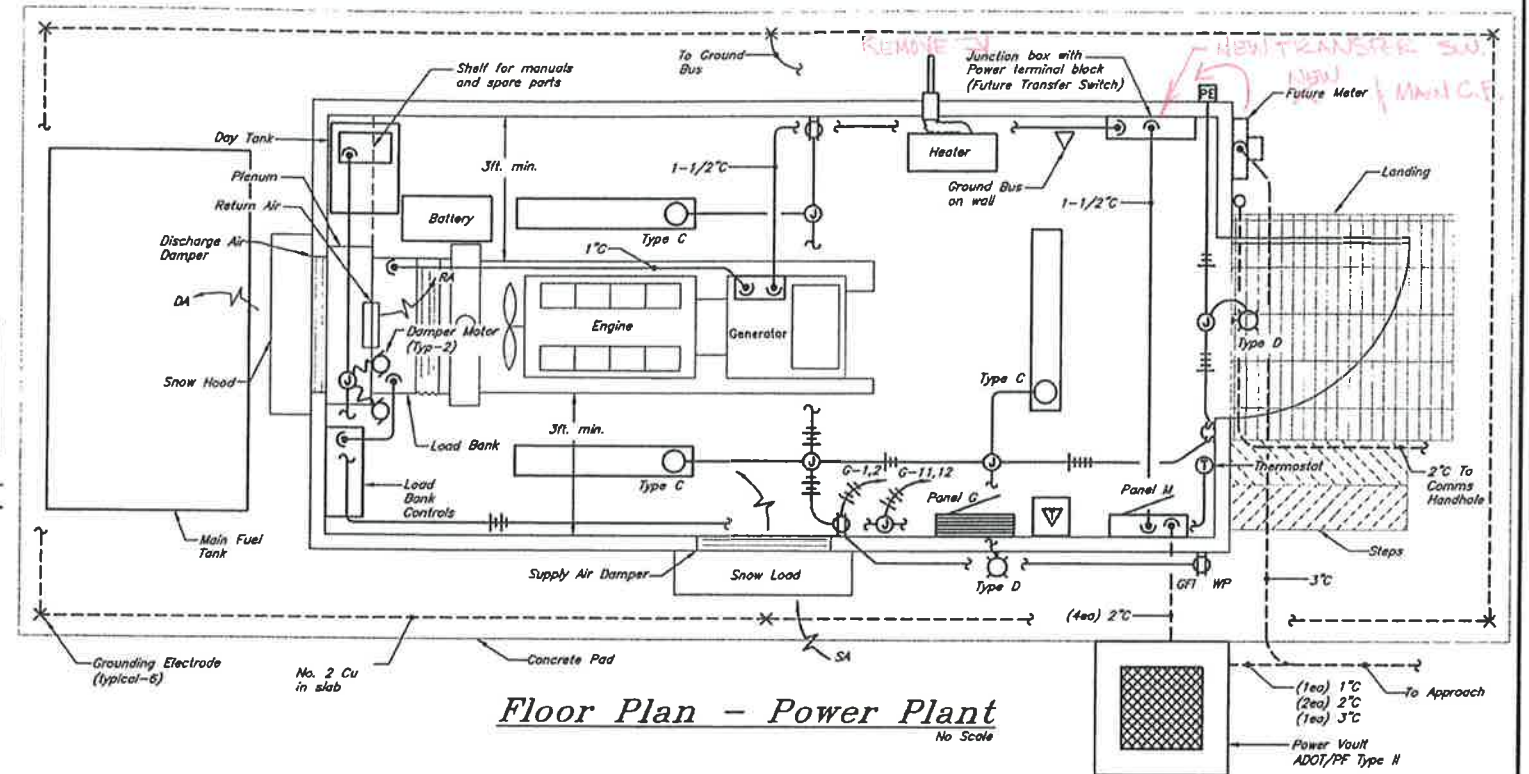
Piping Diagram - Fuel System
No Scale

Notes

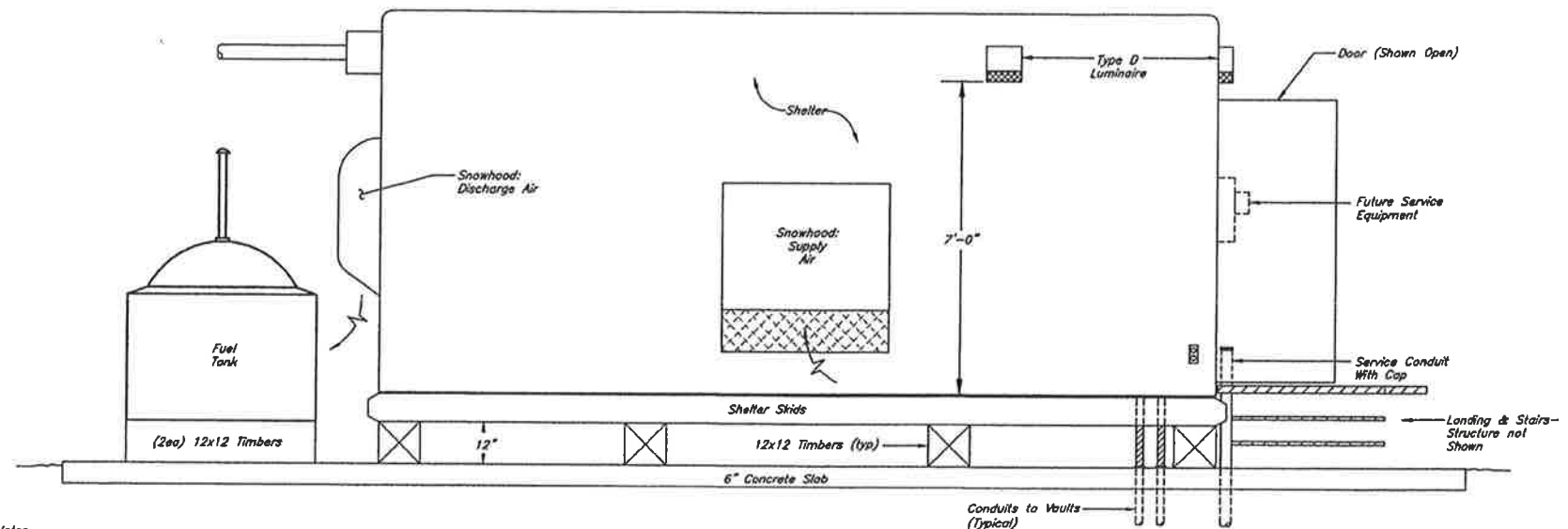
1. Utilize Black Iron pipe only for the fuel system.
2. Provide Double Wall, outdoor type main fuel tank. Install on concrete pad at the west end of the building.
3. Route fuel lines above ground on support sleepers (4"x4" pressure treated lumber) spaced 5' apart. Route to avoid traffic areas.
4. Route the interior fuel lines along the walls and equipment; avoiding traffic areas. Install lines on strut.



Schematic Diagram - Ventilation Controls
No Scale



Floor Plan - Power Plant
No Scale



Elevation - Power Plant
No Scale

Notes

1. Silencer, exhaust pipe, and thimble not shown.
2. Provide landing and stairs with pressure treated lumber structure and non-metallic grating decking. Install on concrete pad.
3. Dampers:
Supply Air: Back draft type with center balance six square feet free air minimum.
Discharge Air: Normally closed, motorized, heavy duty with 18 ga. minimum blades and neoprene seals operating in parallel configuration - six square feet free air, minimum.
Return Air: Normally open, motorized damper. 1 foot free air, minimum.
4. Heater: No. 2 diesel fueled stove with 10,000 BUTH minimum output. Provide with flue and drip pan. Nordic Stove or equal.
5. Luminaires: See Luminaire Schedule Sheet E1. Type D luminaires controlled by switch and PE call.

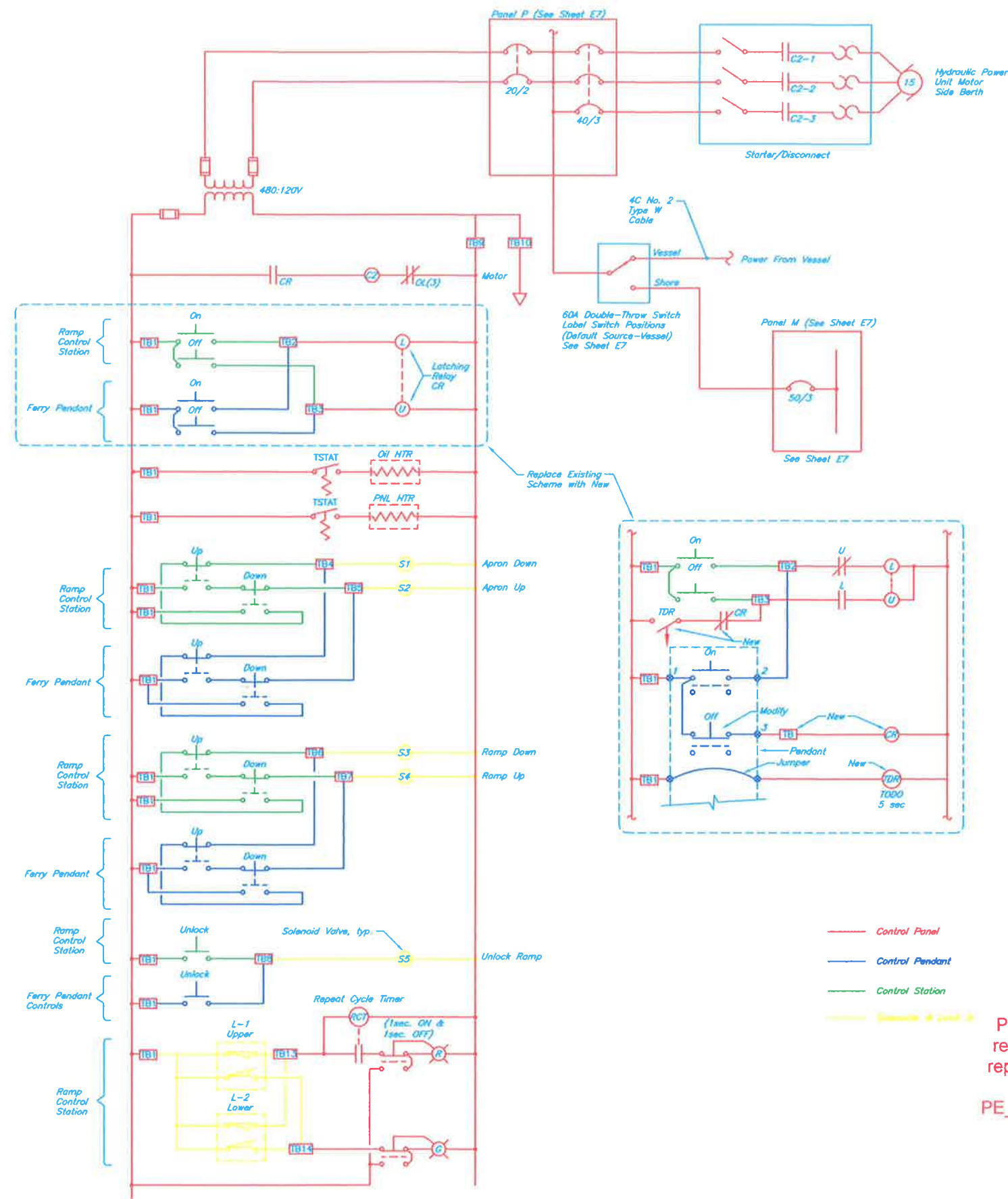
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE [Signature] Date 8-21-17

HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
526 MAIN STREET
Juneau, Alaska 99801
(907) 586-9788
Fax (907) 586-5774

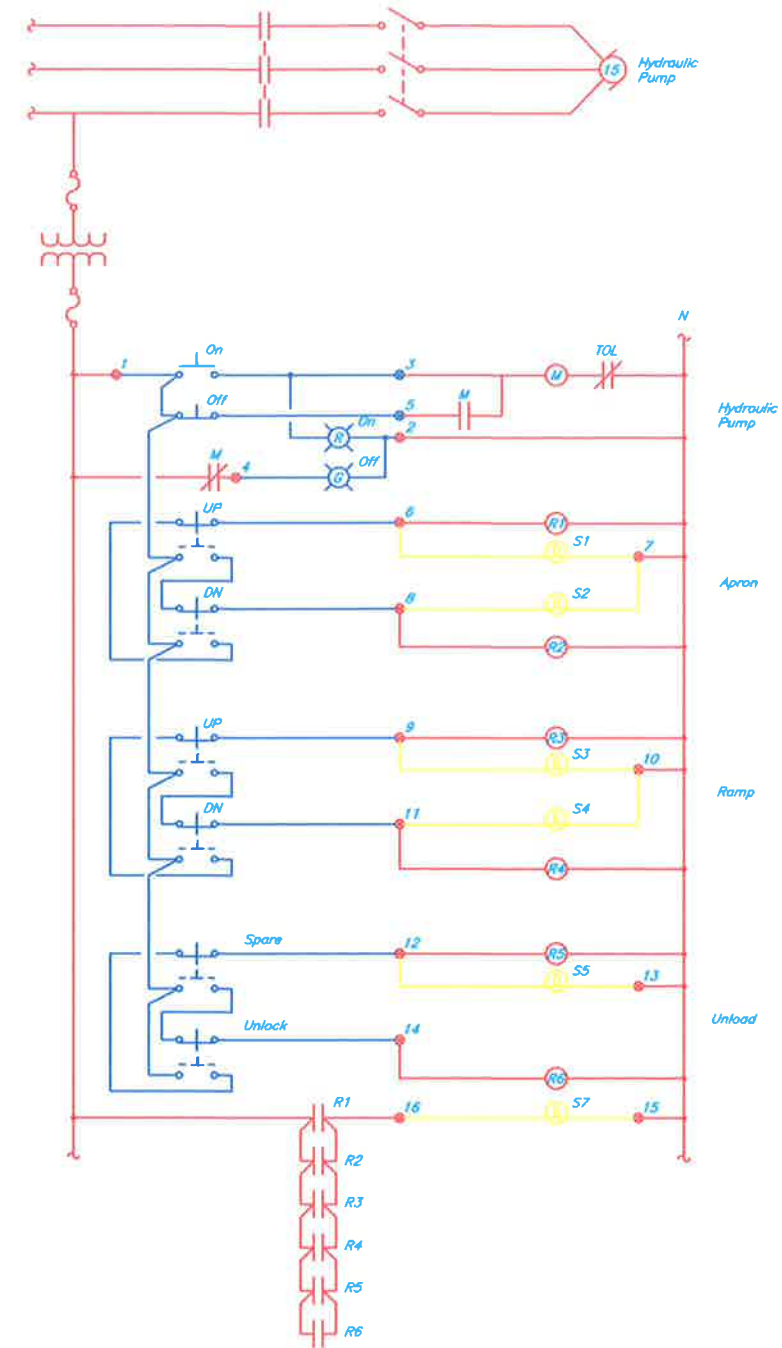
DESIGNED BY: B. Haight		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: BCH DRAWN BY: REJ PATH: Dec 05, 2008 - 9:45am PLOT: F:\Projects\134 State of Alaska DOT\PF\116 Gustavus Causeway Buildout\Drawings\EB.dwg (Layout1.tlb)		Sheet E8 Power Plant	
NO. DATE REVISIONS DESCRIPTION 1 08/21/17 ADD UTILITY SERVICE		PROJECT DESIGNATION	YEAR
		BR-0003(53)/67599	2008
		SHEET NO.	TOTAL SHEETS
		130	138

34



Schematic Diagram - Gustavus Ramp/Apron Controls

No Scale



Schematic Diagram - Hoonah Ramp/Apron Controls

No Scale

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Star Mike Date 8-21-12



CONSULTING
ELECTRICAL
ENGINEERS

526 MAIN STREET
Juneau, Alaska 99801
(907) 586-9788
Fax (907) 586-5774



DESIGNED BY: B. Haught
CHECKED BY: BCH
DRAWN BY: MCJ
PATH: Oct 22, 2010 - 9:07am
PLOT: F:\Projects\134 State of Alaska DOTRF\116 Gustavus Causeway Buildout\Drawings\Controls.dwg (Layout1.tbd)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

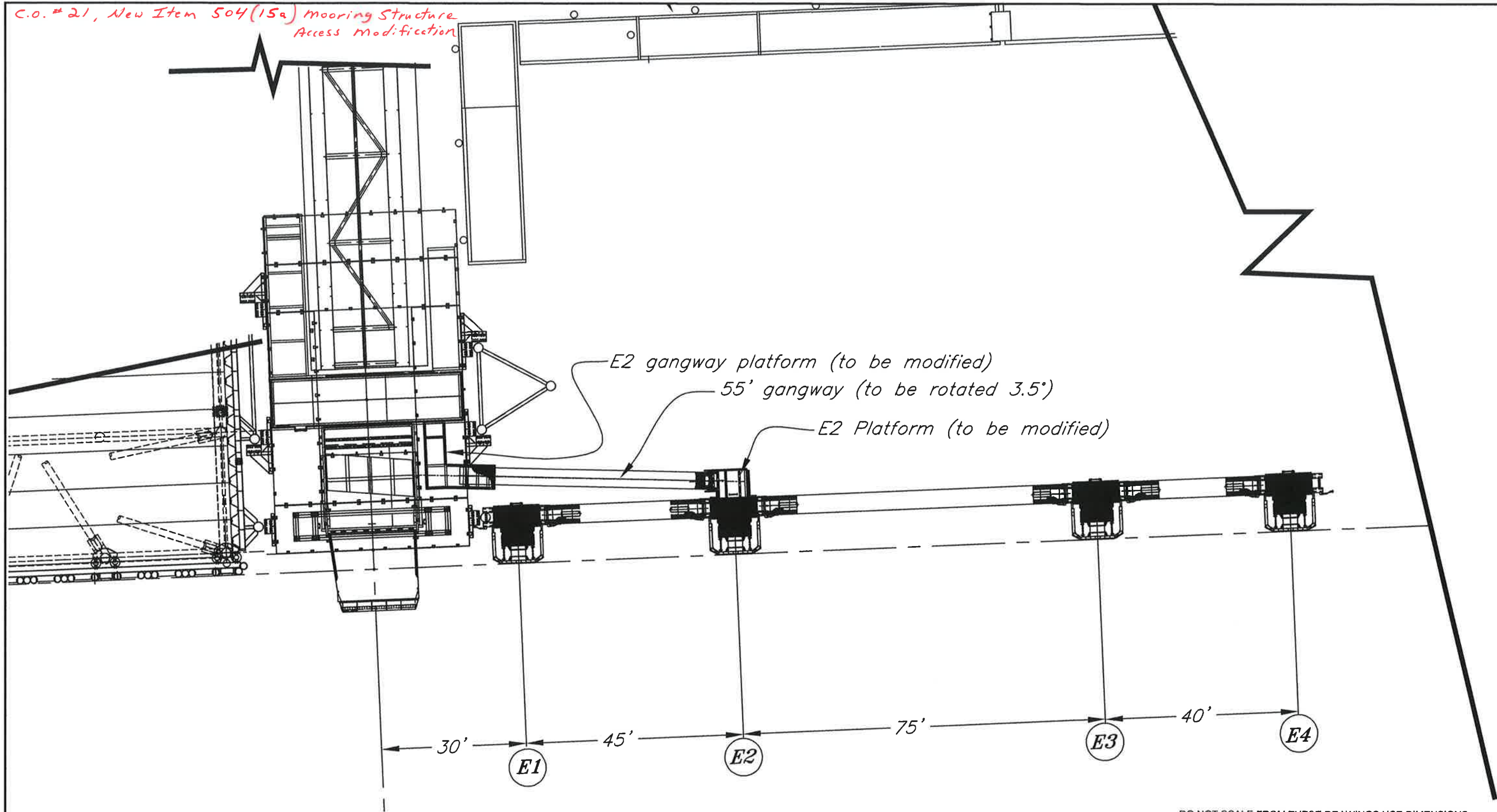
Gustavus Causeway Replacement

Ramp and Apron Controls

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	BR-0003(53)/67599		2008	133	138

35

C.O. # 21, New Item 504(15a) mooring structure
Access Modification

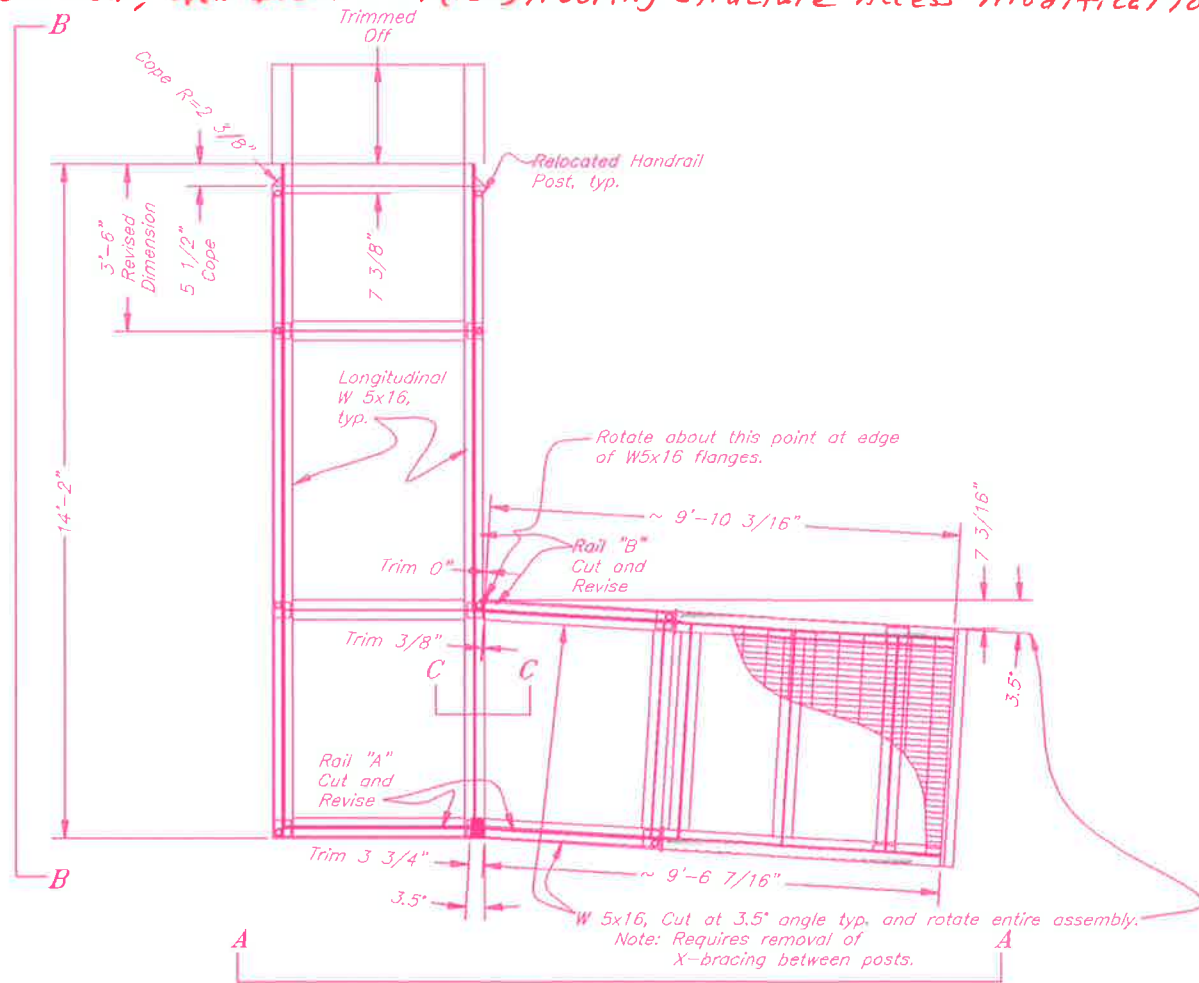


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Stan Miller Date 8-21-11

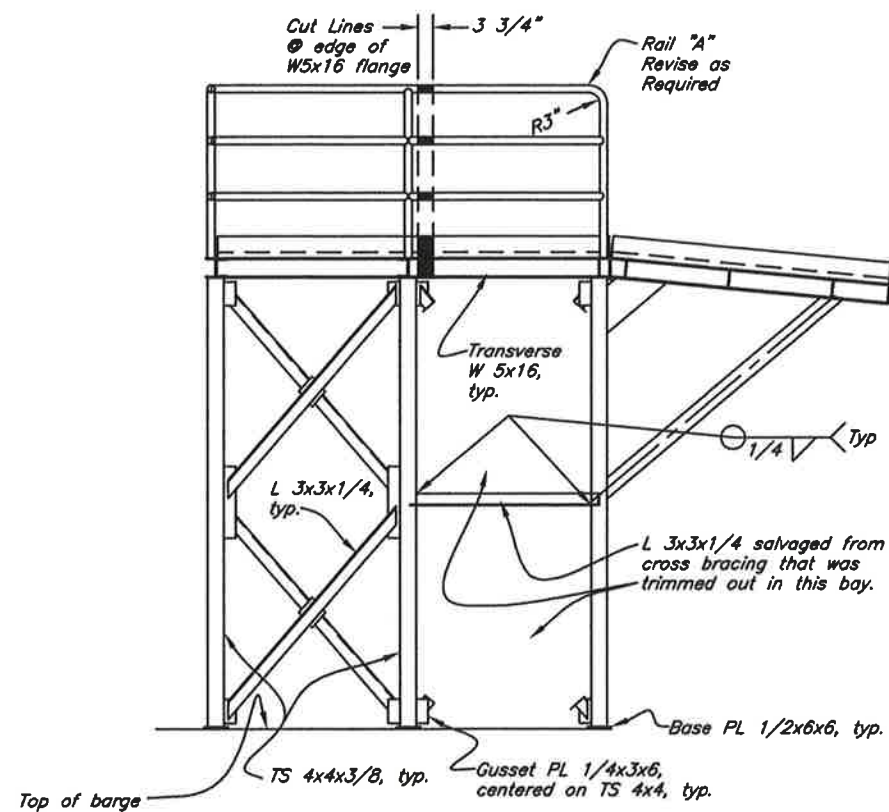
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: <u>J. Scott</u>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: <u>B. Savikko</u>		RFP #18	
DRAWN BY: <u>C. Fuman, W. Hickok</u>		Pontoon Platform and E2 Platform Modifications	
PATH: <u>C:\67589 GUS DOCK\RFP 16\RFP 16 SITE PLAN 1-5-11.DWG</u>		Marine Site Plan	
TAB: <u>Thu, 06/Jan/11 02:34PM</u>		SCOTT, JOHN T (DOT) 36	
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	YEAR
		BR-0003(53)/67599	2008
		SHEET NO.	TOTAL SHEETS
			138

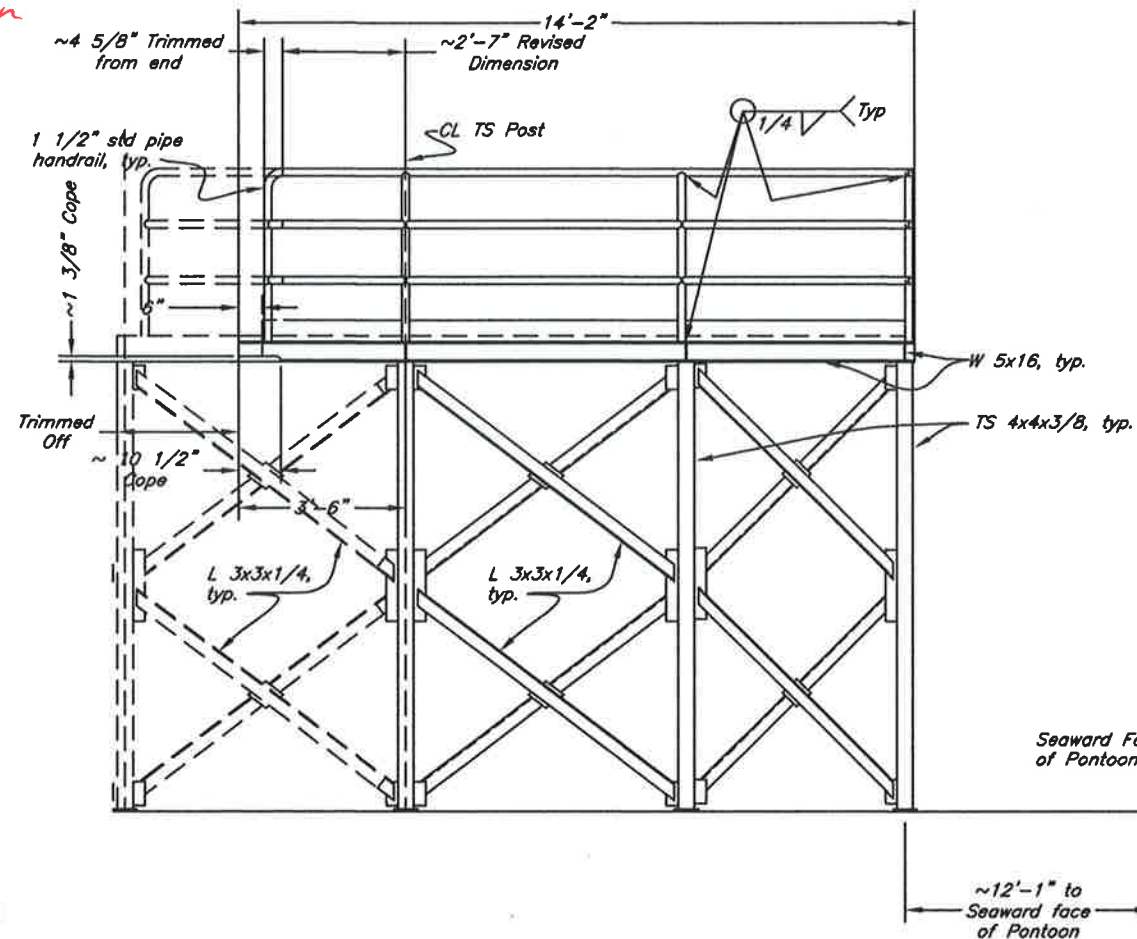
C.O.#21, New Item 504(15a) mooring structure Access Modification



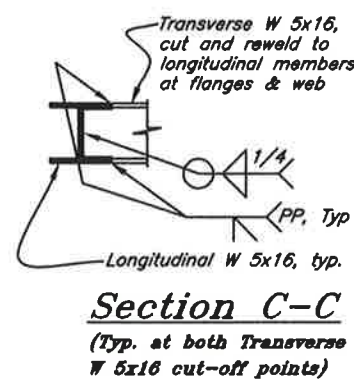
Platform Plan View



Elevation A-A

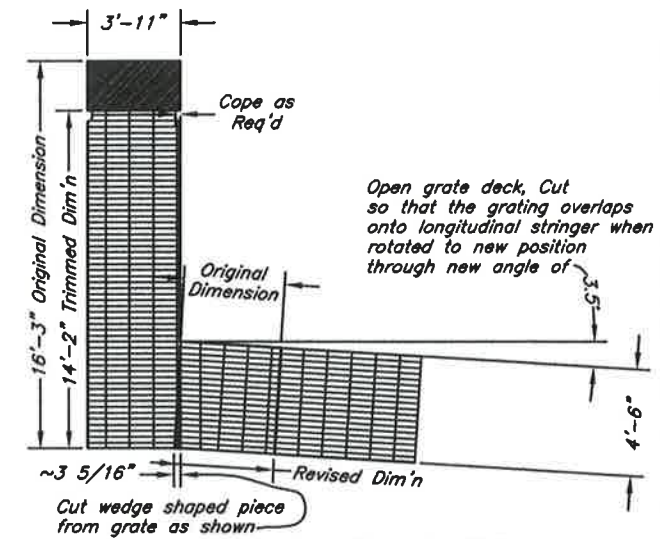


Elevation B-B



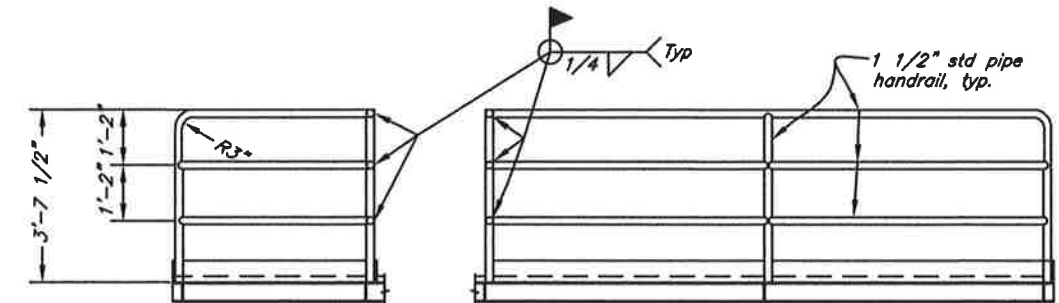
Section C-C

(Typ. at both Transverse W 5x16 cut-off points)



Open Grate Deck Plan

- NOTES:
- 1) Platform shall be galvanized
 - 2) Platform shall be attached to Pontoon in same manner as others.



Side View

Front View

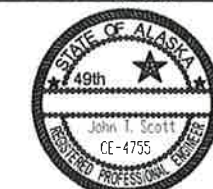
Handrail "B"

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

PE Sten Smith Date 8-21-11

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott



CHECKED BY: B. Savikko

DRAWN BY: G. Fuman, M. Hootak

PATH: C:\67599 GUS DOCK\RFP 16\RFP 16 GANGWAY PLATFORM 1-5-11.DWG

TAB: Thu, 20/Jan/11 01:20PM

REVISIONS

NO. DATE DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

RFP #18

E2 Gangway Platform -
Modifications

PROJECT DESIGNATION

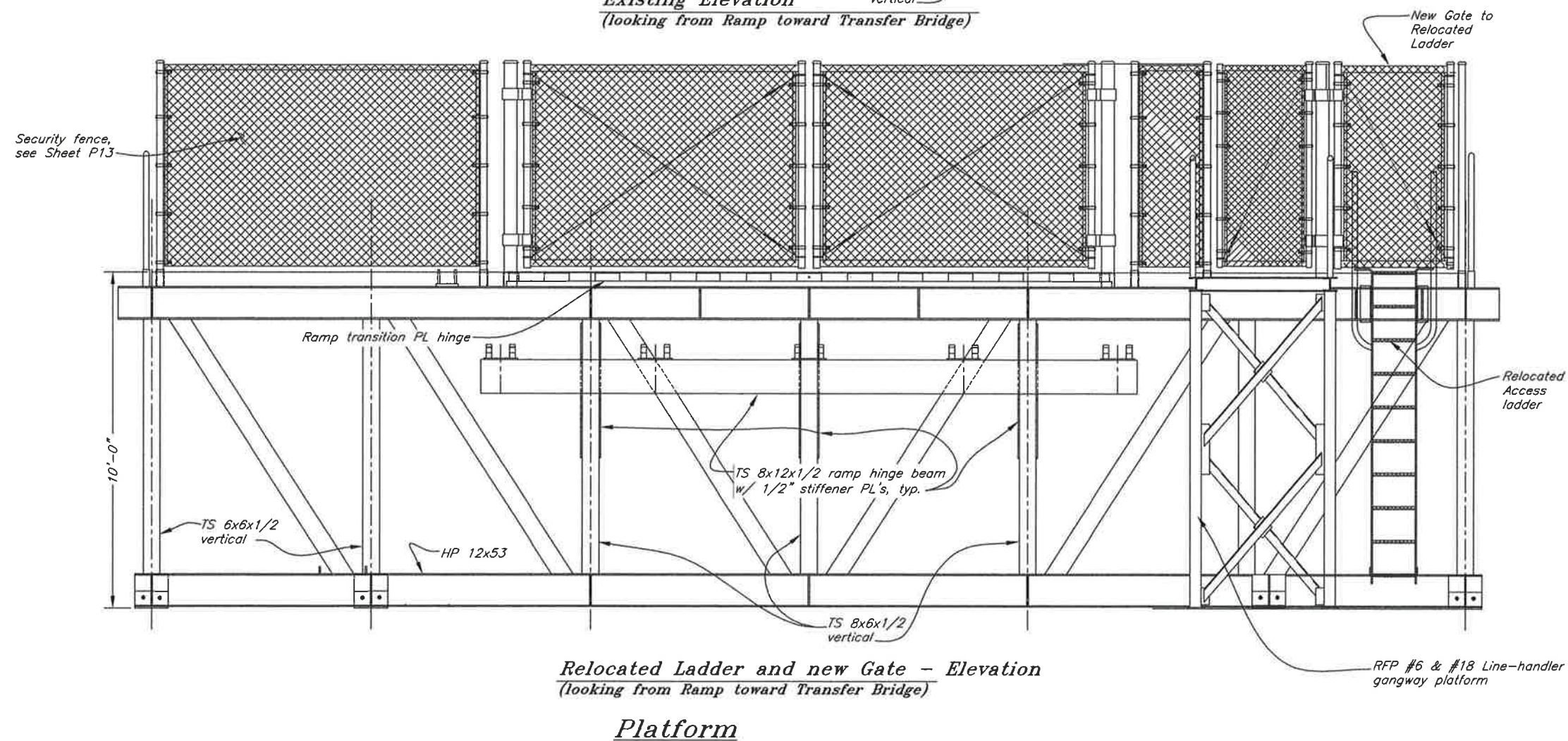
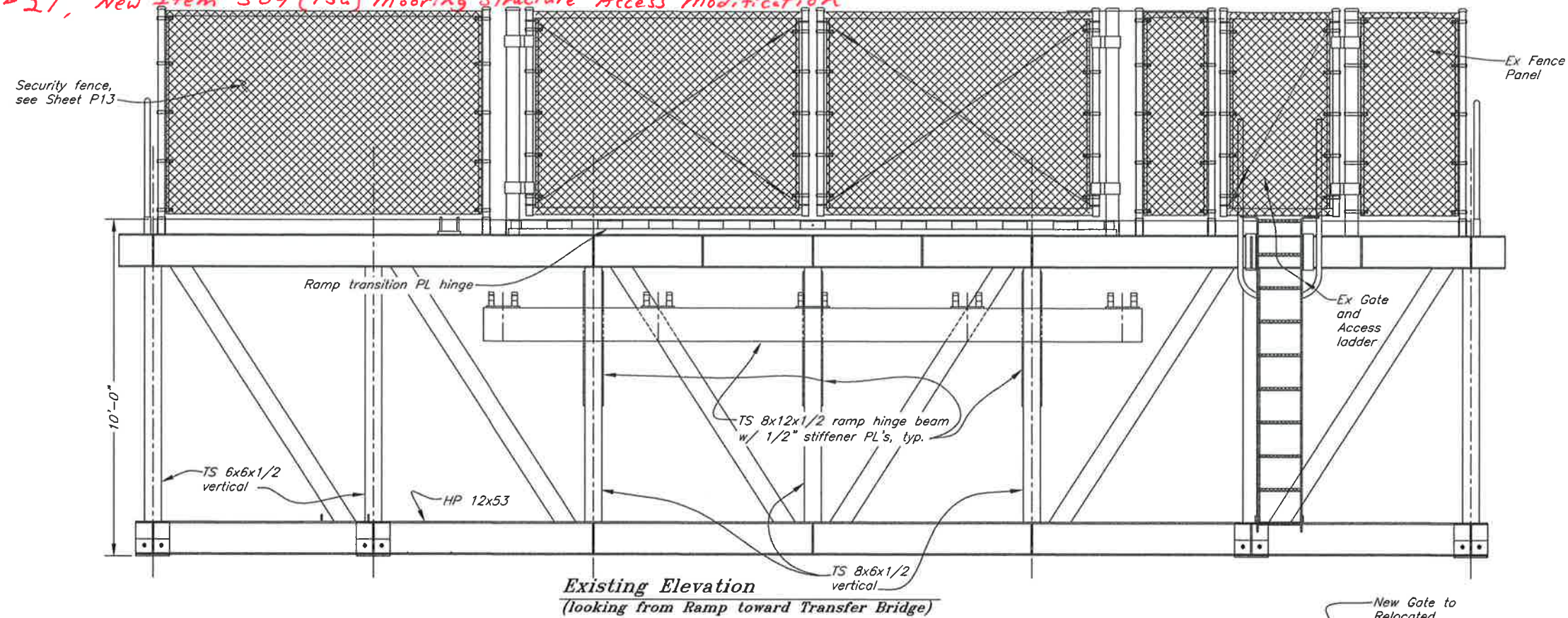
YEAR

SHEET NO.

TOTAL SHEETS

BR-0003(53)/67599 2008 138

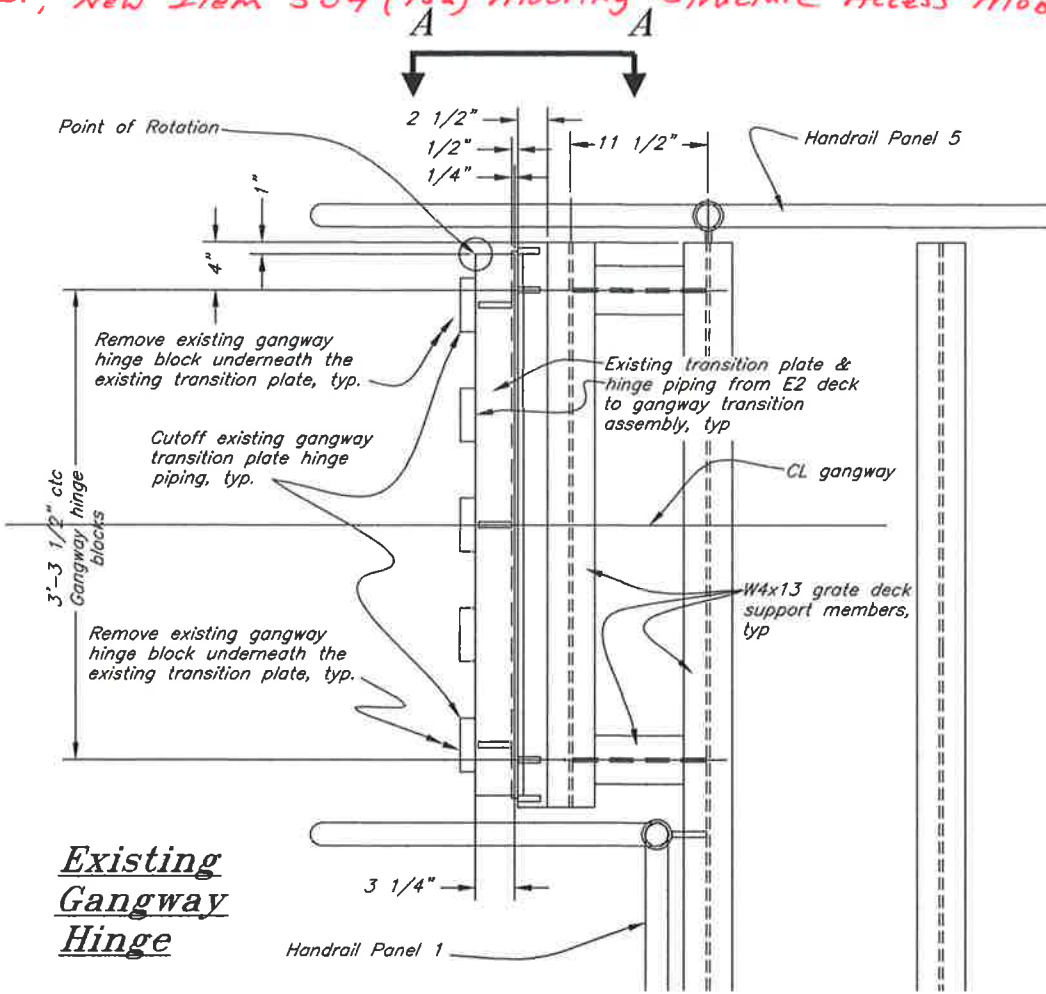
C.O. #21, New Item 504 (15a) Mooring Structure Access Modification



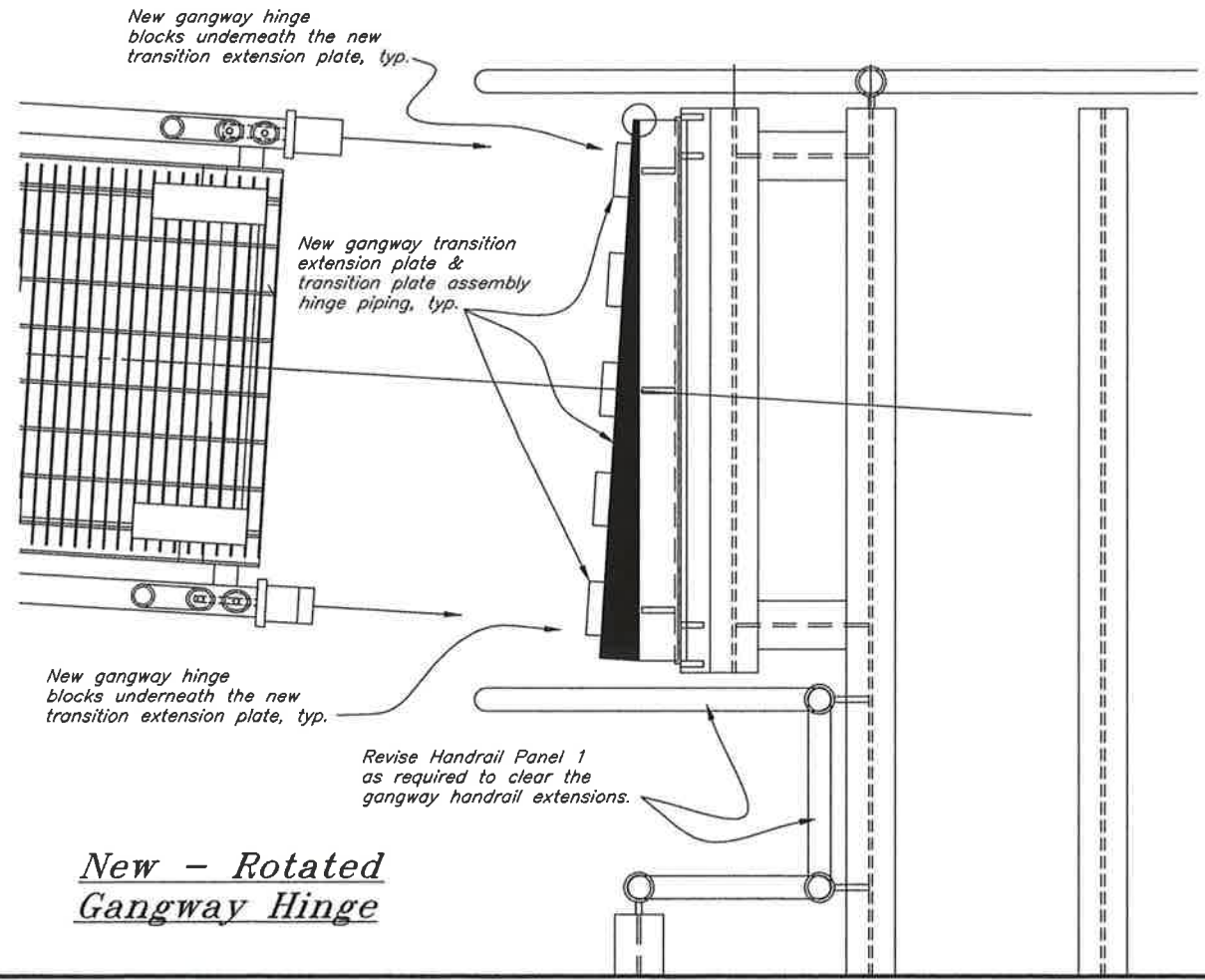
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE John T. Scott Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
DESIGNED BY: J. Scott 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION Gustavus Causeway Replacement RFP #18 Relocated Ladder & Gate Modifications	
CHECKED BY: B. Savikko DRAWN BY: C. Fuman, M. Hickok PATH: C:\67599 GUS DOCK\RFP 16\RFP 16 PED PLATFORM FENCE ELEV.DWG TAB: Tue, 11/Jan/11 11:44AM SCOTT, JOHN T (DOT)		PROJECT DESIGNATION YEAR SHEET NO. TOTAL SHEETS	
REVISIONS NO. DATE DESCRIPTION		BR-0003(53)/67599 2008 79 138	

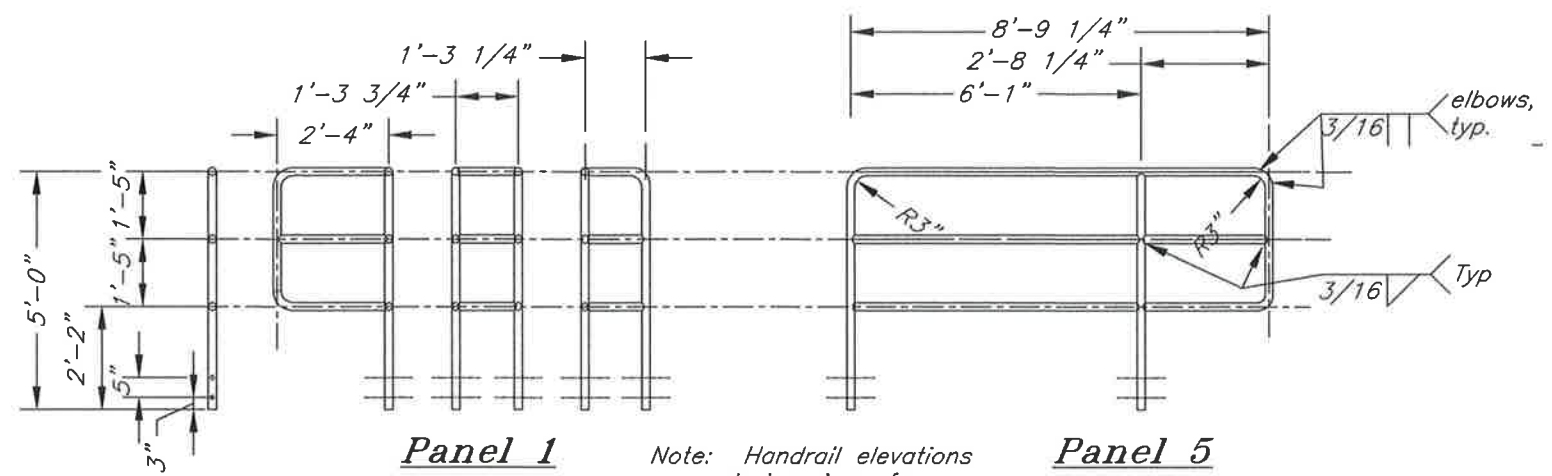
C.O. # 21, New Item 504 (15a) Mooring Structure Access Modification



Existing Gangway Hinge



New - Rotated Gangway Hinge



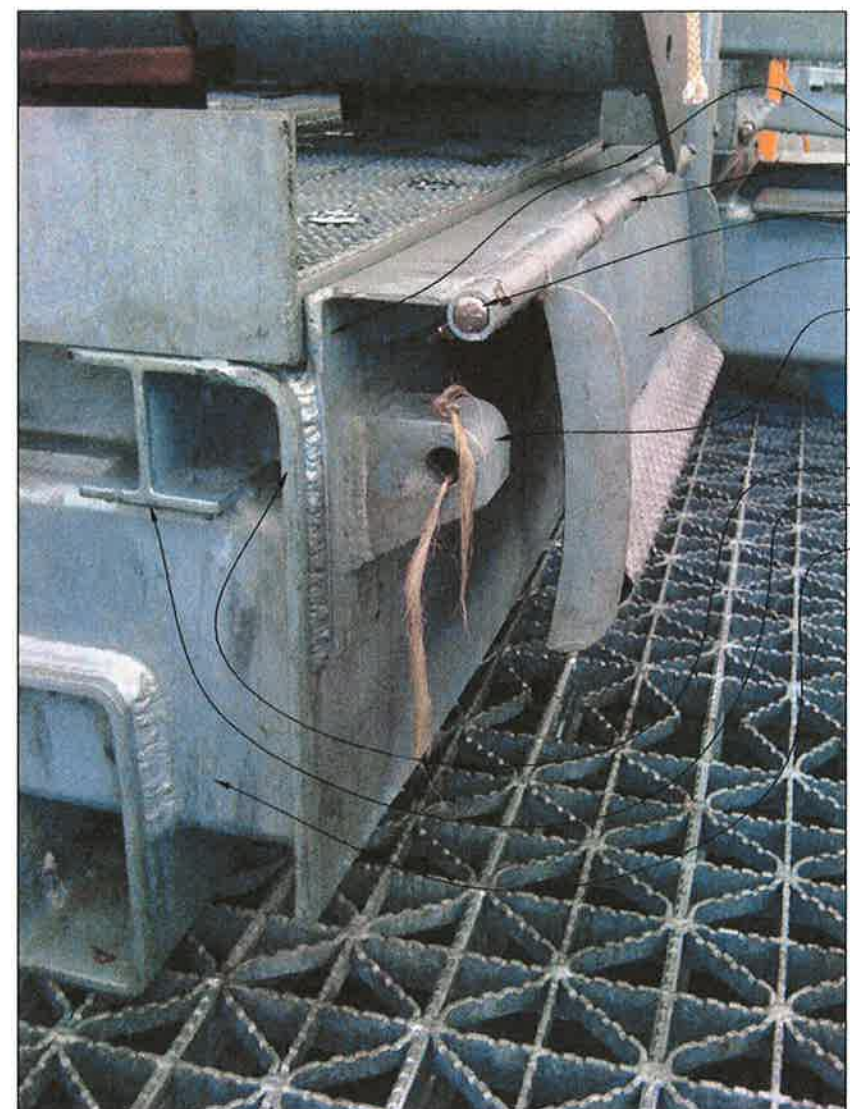
Panel 1
(Modify as Required)

Note: Handrail elevations are exterior views from left to right

Panel 5
(Modify as Required)

9/16"Ø holes for bolts, typ. match sockets

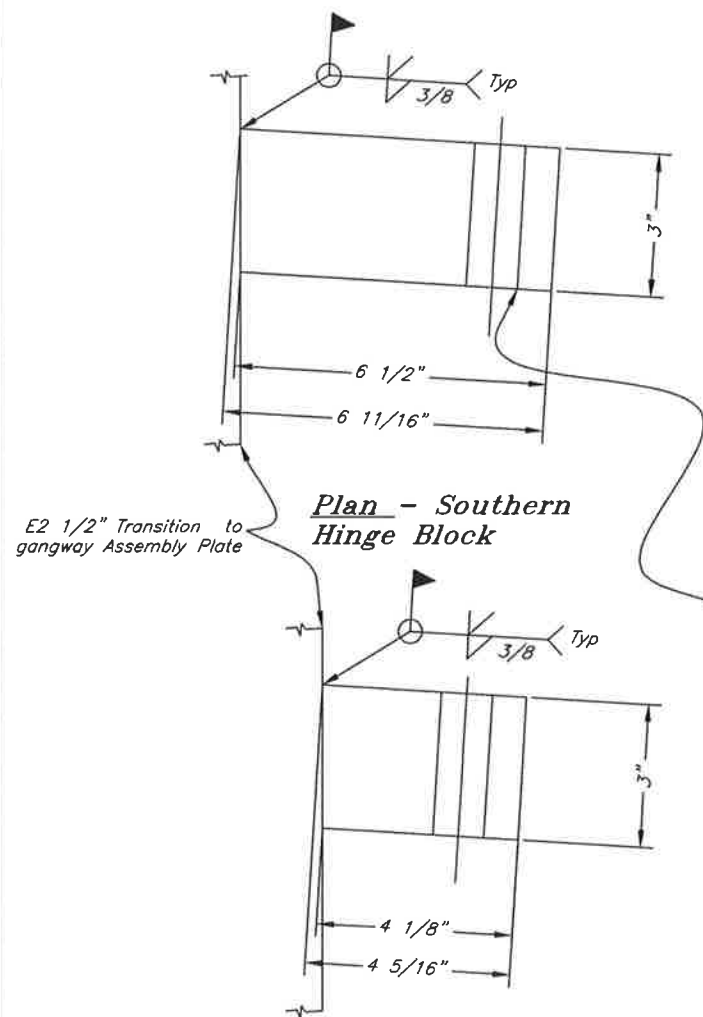
Existing Handrails



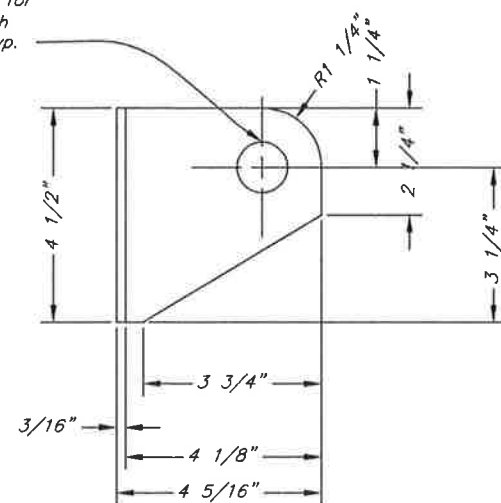
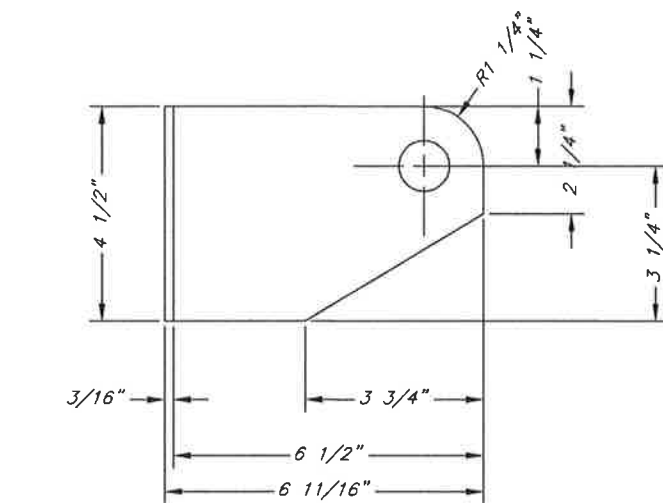
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE John T. Scott Date 8-21-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
DESIGNED BY: J. Scott		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement	
CHECKED BY: B. Savikko		RFP #18 E2 Dolphin Details	
DRAWN BY: C. Fuman, W. Hickok			
PATH: C:\67599 GUS DOCK\RFP 16\RFP 16 DOLPHIN E2 TOP DETAILS 1-15-11.DWG		39	
TAB: Thu, 06/Jan/11 02:18PM		SCOTT, JOHN T (DOT)	
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
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C.O. #21, New Item 504(15a) Mooring Structure Access Modification

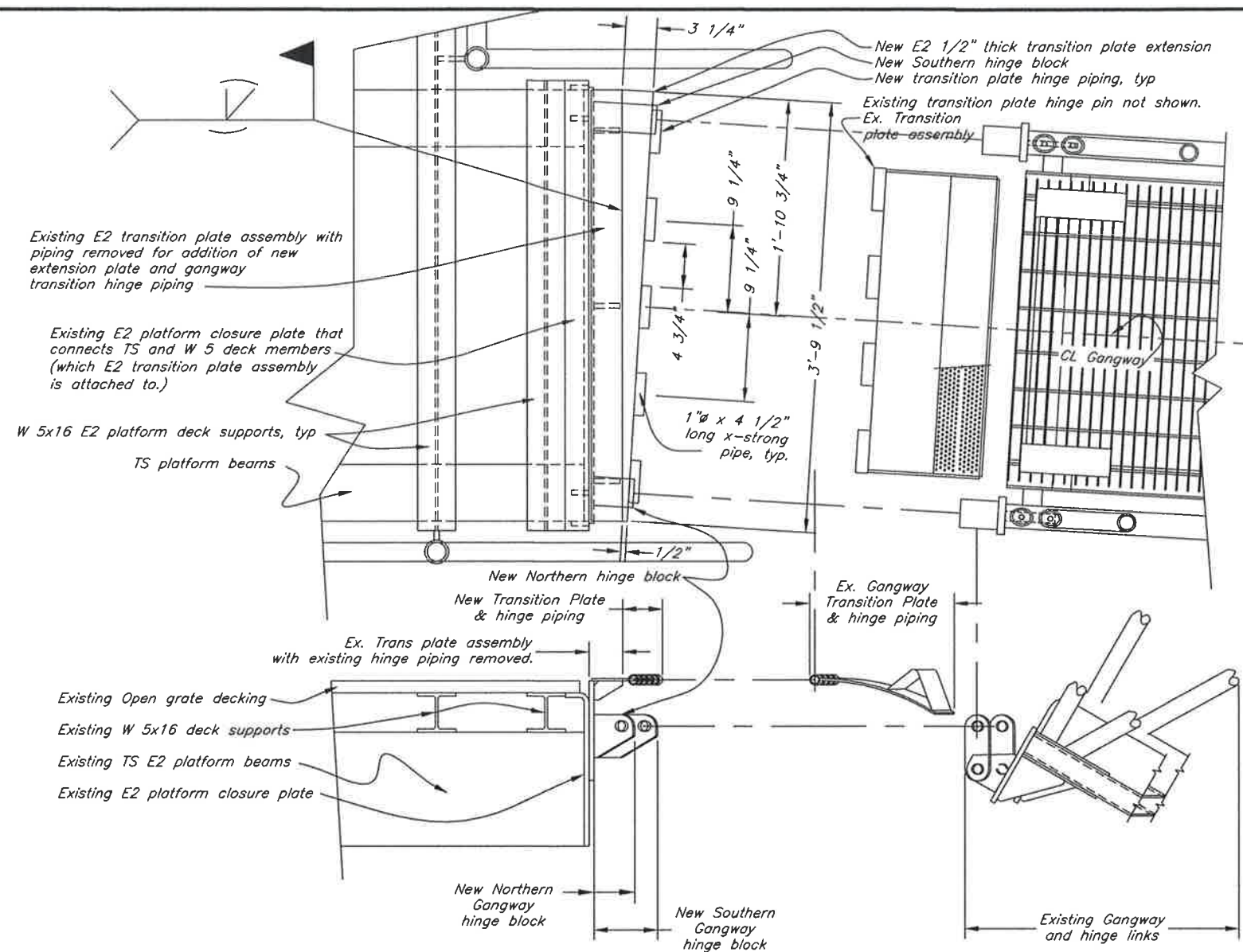


Plan - Northern Hinge Block



Elevation - Northern Block

New Hinge Blocks



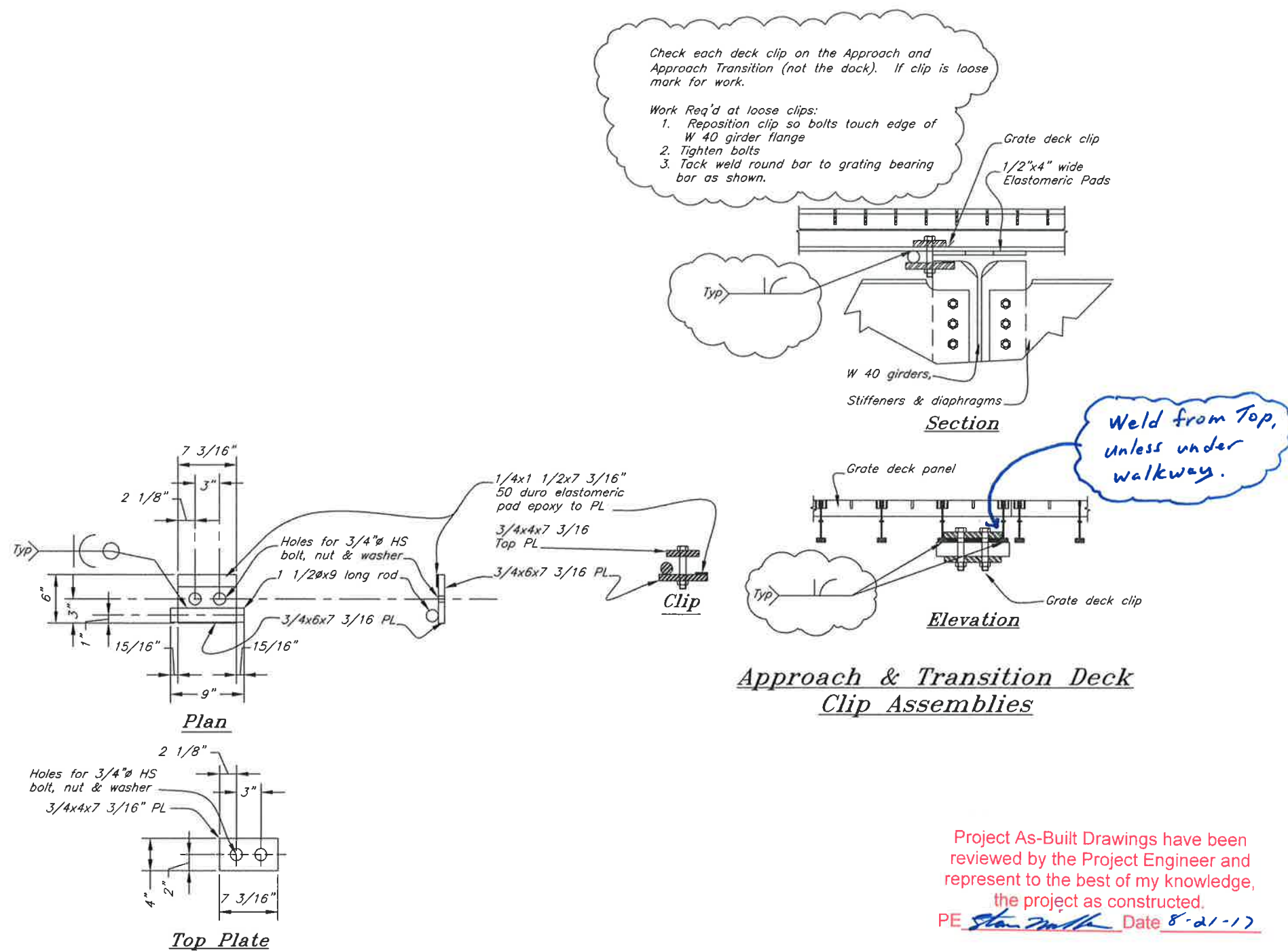
E2 Platform to Gangway Modification Details
(Utilize details from RFP #06 drawings and shop drawings for welds or details not shown)

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

PE John I. Scott Date 8-21-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
DESIGNED BY: J. Scott		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Gustavus Causeway Replacement RFP #18 Mooring Structures E2 Modifications	
CHECKED BY: B. Savikko		SCOTT, JOHN T (DOT)	
DRAWN BY: C. Fuman, W. Hickok		YEAR: 2008	
PATH: C:\67599 GUS DOCK\RFP 16\RFP 16 DOLPHIN ACCESS MODS 1-5-11.DWG		SHEET NO. 117	
TAB: Thu, 20/Jan/11 01:44PM		TOTAL SHEETS 138	
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NO.	DATE	DESCRIPTION	BR-0003(53)/67599

C.O. # 21, New Item 504(15a) Mooring Structure Access Modification



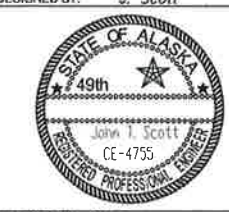
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Stan Smith Date 8-21-17

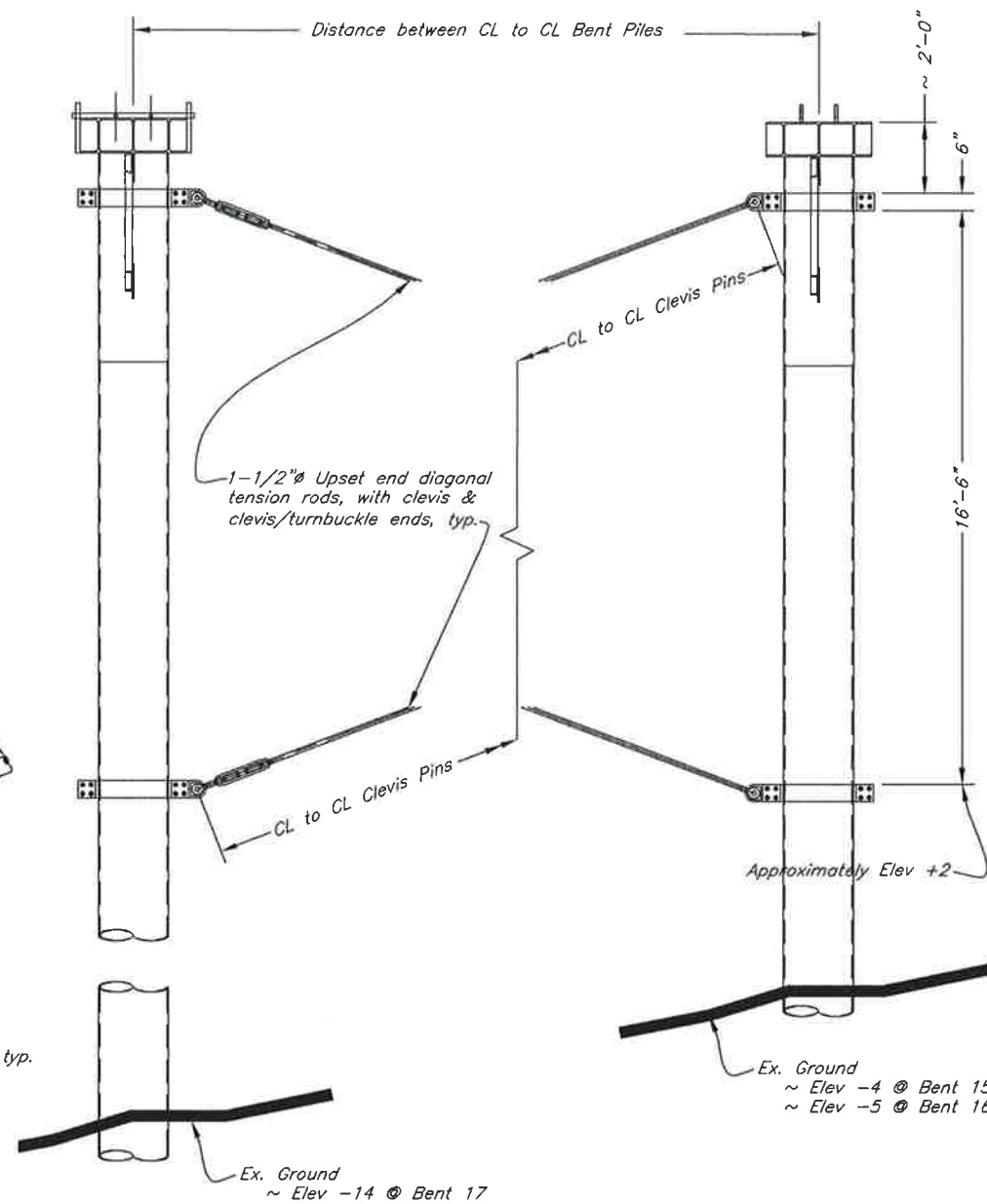
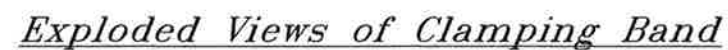
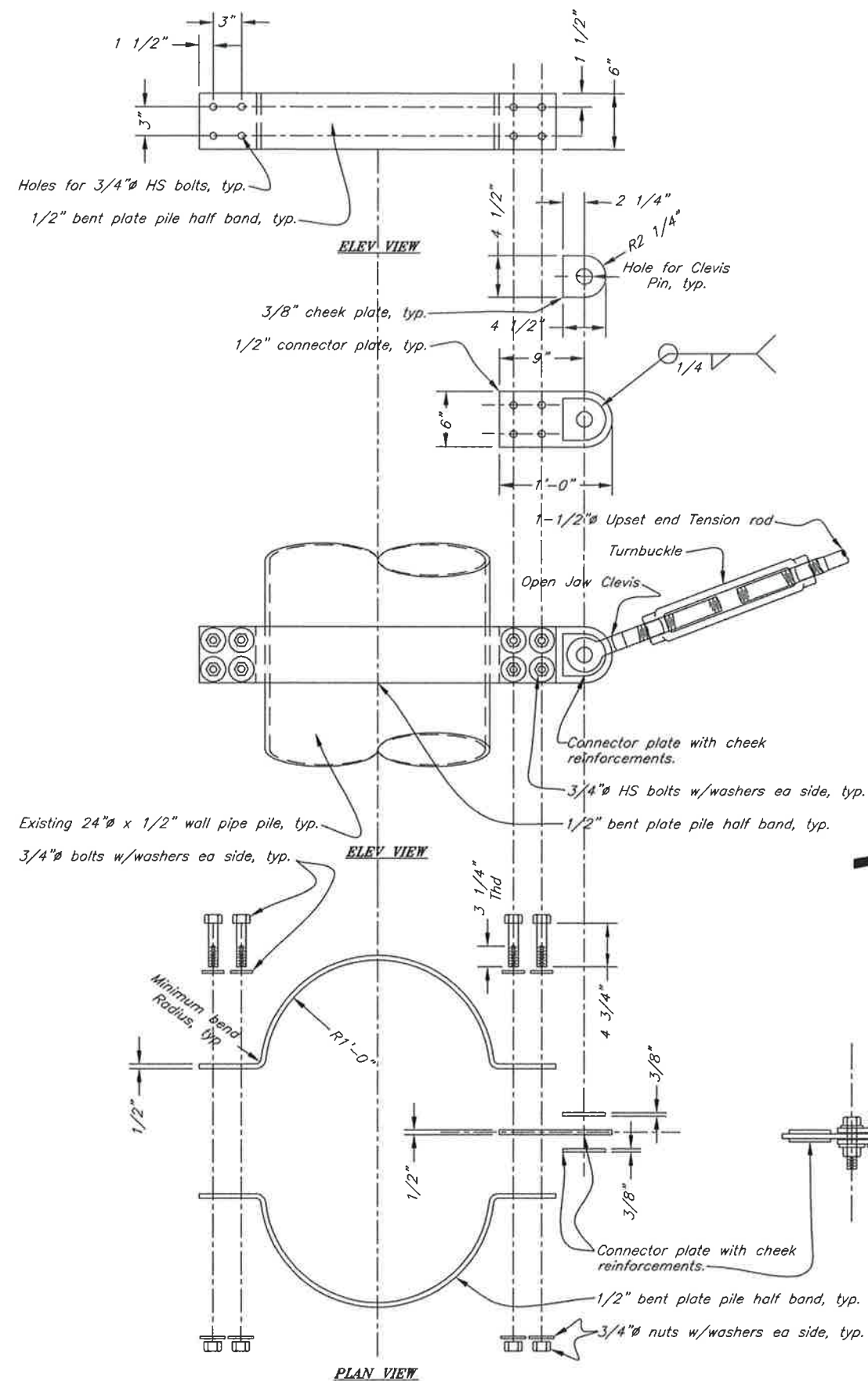
Clip Assembly for Grate Decking
(2 clip sets per Girder per Panel)

Inspect All: Weld up to 100 each.

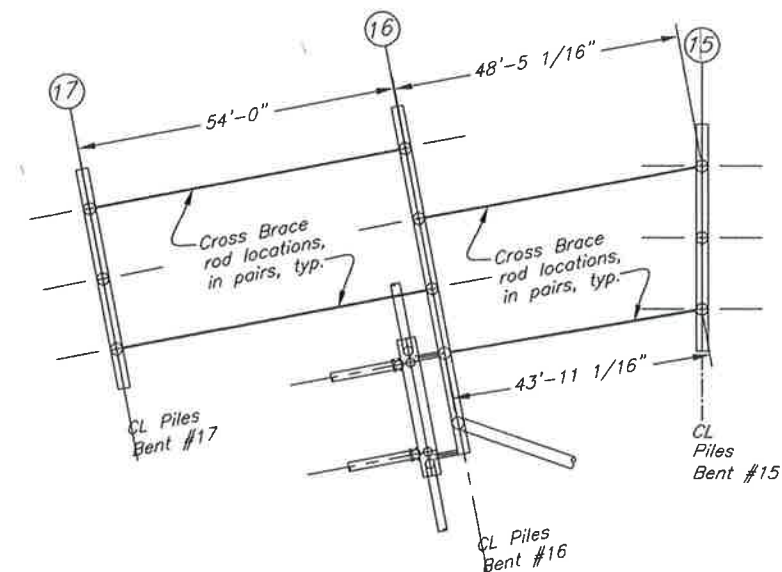
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION			
	Gustavus Causeway Replacement RFP #18 Secure Deck Clip on Approach & Transition			
	CHECKED BY: B. Savikko DRAWN BY: C. Fuman, W. Hickok PATH: C:\67599 GUS DOCK\RFP 16\RFP 16 DECK PANEL CLIPS.DWG TAB: Tue, 11/Jan/11 12:03PM SCOTT, JOHN T (DOT)			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.
NO.	DATE	DESCRIPTION		
		BR-0003(53)/67599	2008	29
				138

C.O. # 22, New Item 504(1a) Longitudinal Cross Bracing



Cross Brace - Elevation



Cross Bracing - Bents 15, 16 & 17

<i>STRUCTURE to STRUCTURE</i>	<i>DISTANCES</i>	
	<i>CL Pile to CL Pile Horizontal</i>	<i>Clevis Pin to Clevis F Diagonal</i>
<i>Bent 16 to 17</i>	<i>54'-0"</i>	<i>53'-1 1/4"</i>
<i>Bent 16 to 15</i>	<i>48'-5 1/16"</i>	<i>47'-10 1/2"</i>
<i>Bent 16 to 15</i>	<i>43'-11 1/16"</i>	<i>43'-8 3/8"</i>

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

~~RFP #20~~
Longitudinal Cross
Bracing - Approach
Bents 15 - 17

CHECKED BY: *B. Savikko*

DRAWN BY: C. Fuman, W. Hickok

PATH: C:\67599 GUS DOCK\RFP 20\RFP 20_BRACING.DWG

TAB: Fri, 11/Feb/11 03:40PM

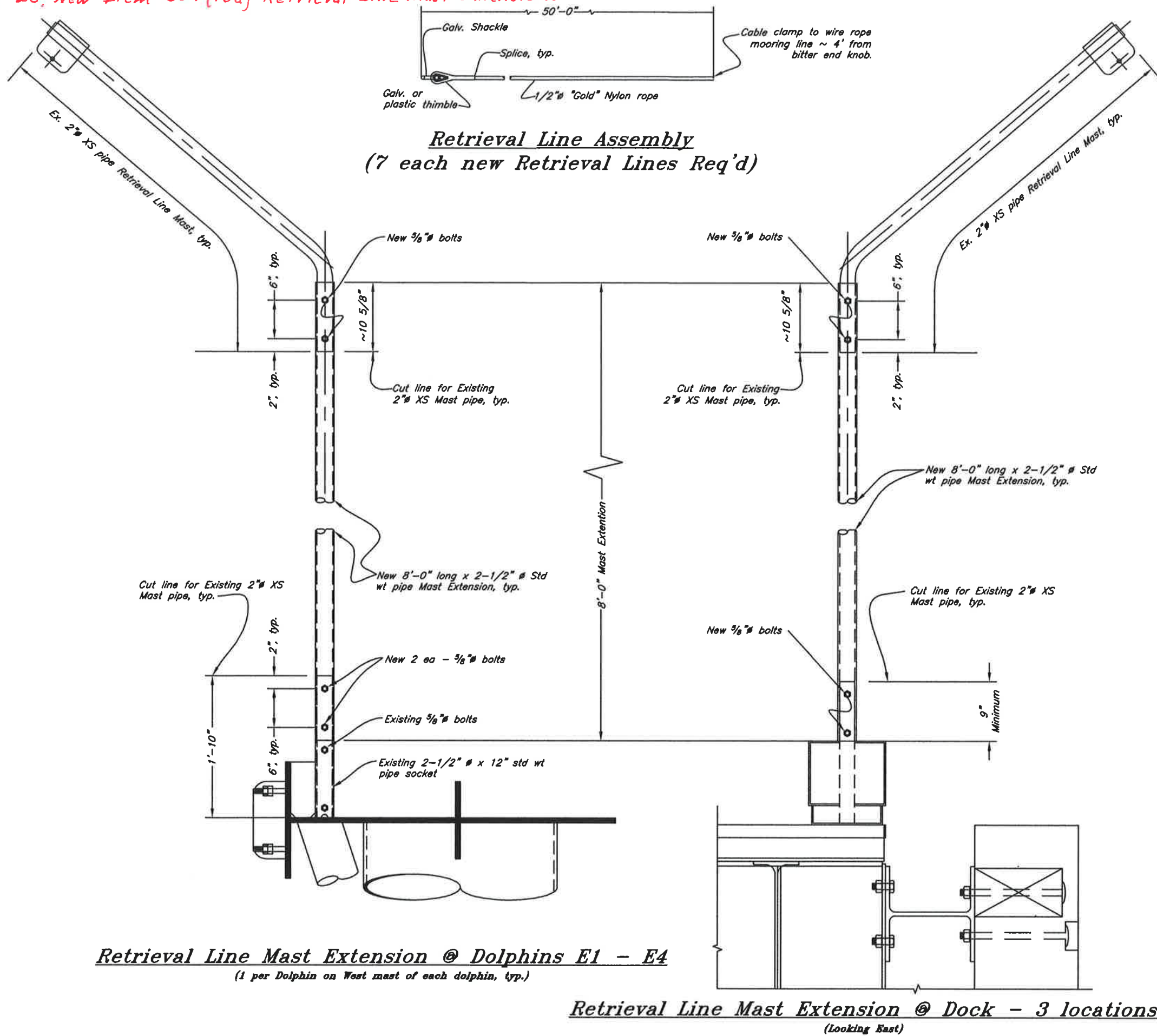
SCOTT, JOHN T (DOT) 42

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE *Stan Smith* Date 8-21-17

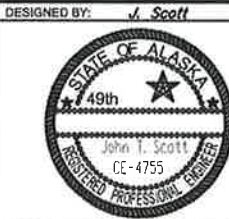
C.O.*23, New Item 504(16a) Retrieval Line Mast Extensions



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

PE Steve Smith Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Gustavus Causeway Replacement

**Retrieval Line
Mast Extensions
~~RFP #21~~**

CHECKED BY: *B. Sovikko*

DRAWN BY: G. Furnon, W. Mickok

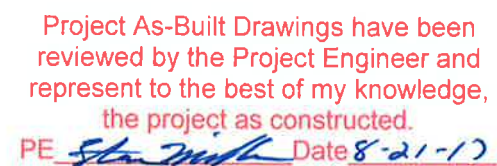
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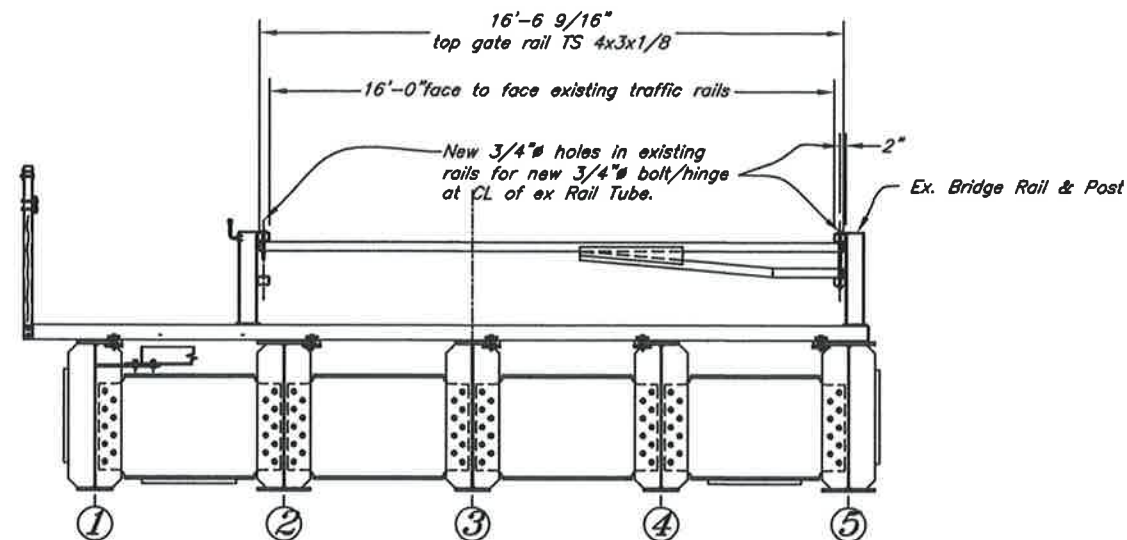
SCOTT, JOHN T (DOT) 43

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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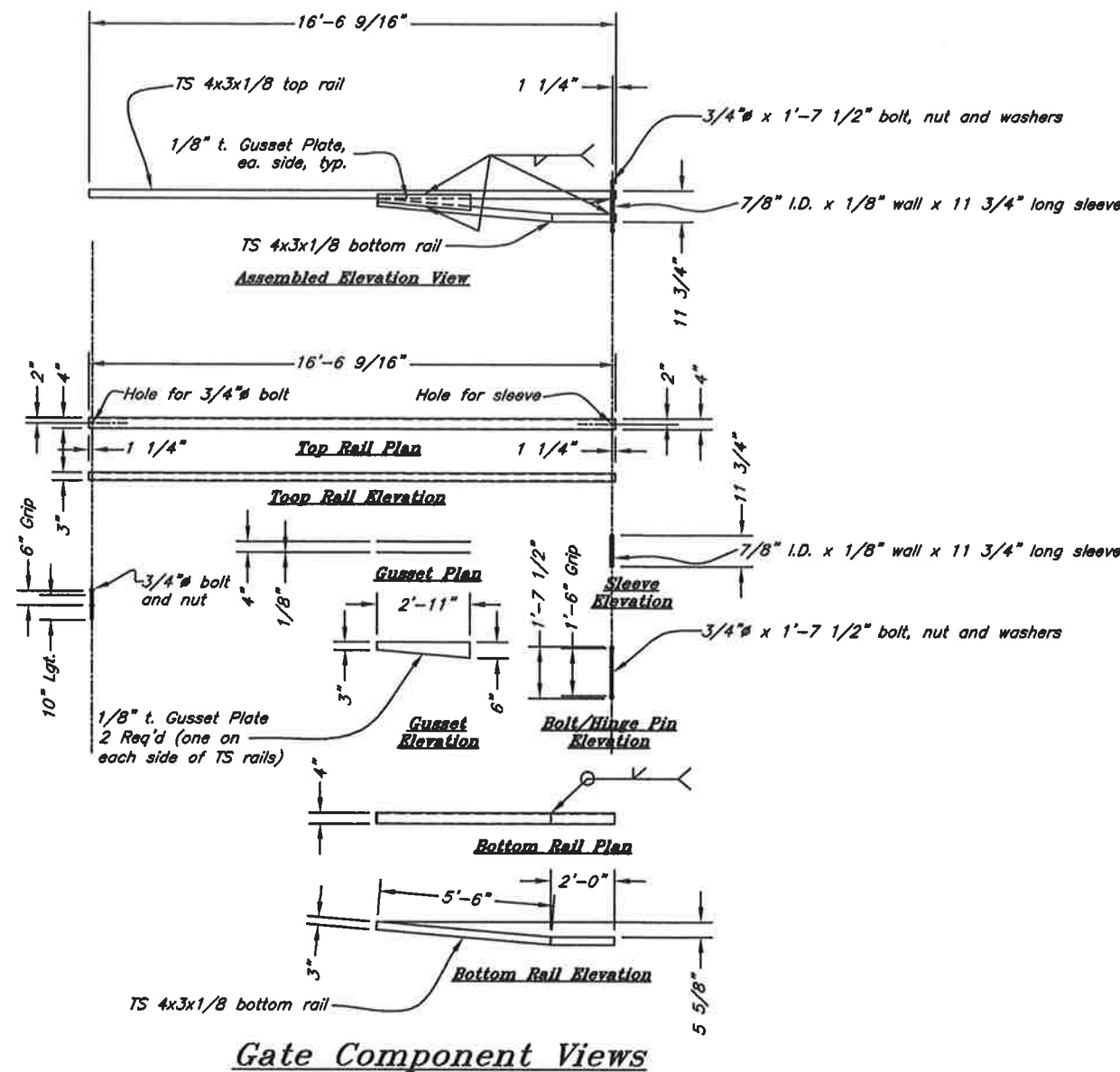
C.O. # 24 New Item 203(21) Contractor Supplied Barriers

~~3/4~~ 45

C.O.# 24, New Item 203(21) Contractor Supplied Barriers



Transfer Bridge View at Approach
Abutment End
(looking Seaward)



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE St. Nick Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott



CHECKED BY: B. Savikko

DRAWN BY: C. Fuman, M. Hickok

PATH: C:\67589 GUS DOCK\RFP 22\BIDGE GATE.DWG

TAB: Tue, 21/Jun/11 12:13PM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

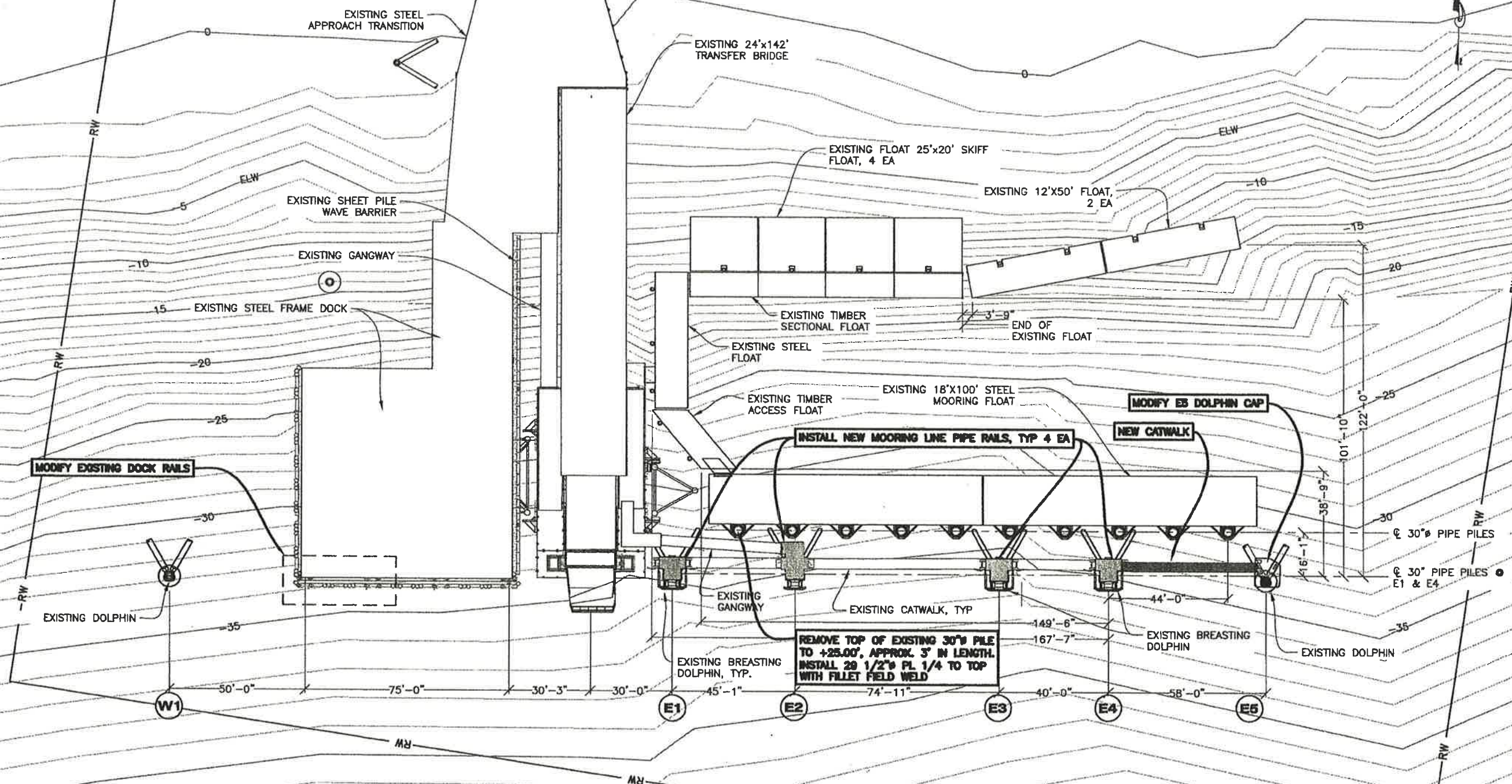
Gustavus Causeway Replacement

~~RFP 22~~
Transfer Bridge Gate

SCOTT, JOHN I (DOT) 46

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			BR-0003(53)/67599	2008	91	138

C.O. #25, New Item 5⁰²04(25) Improved Access



SITE PLAN

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

PE Stan Smith Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION--SOUTHEAST REGION

Gustavus Causeway Misc Repairs

~~RFP 08~~
Site Plan

CHECKED BY: K. Miller

DRAWN BY:

PATH: Q:\GUS\67599\MF\DESIGN MODS 2015\CATWALK & MISC\DWG\SHEET 1 - SITE PLAN.DWG

TAB: Wed, 27/Feb/13 11:54AM

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NO.	DATE	DESCRIPTION
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PROJECT DESIGNATION

67599

[illegible]

SHEET

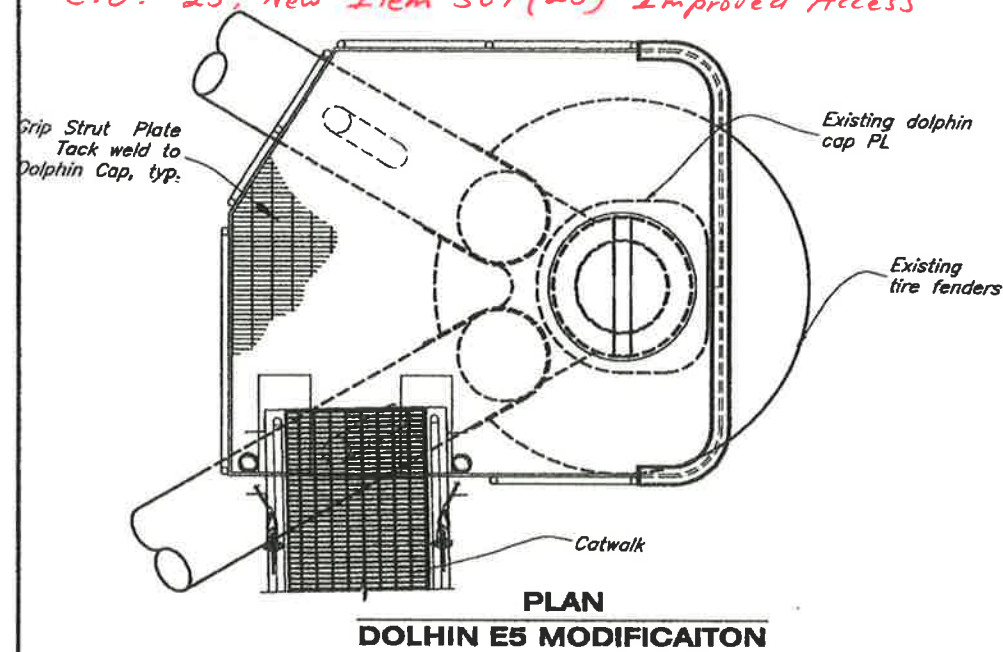
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2013

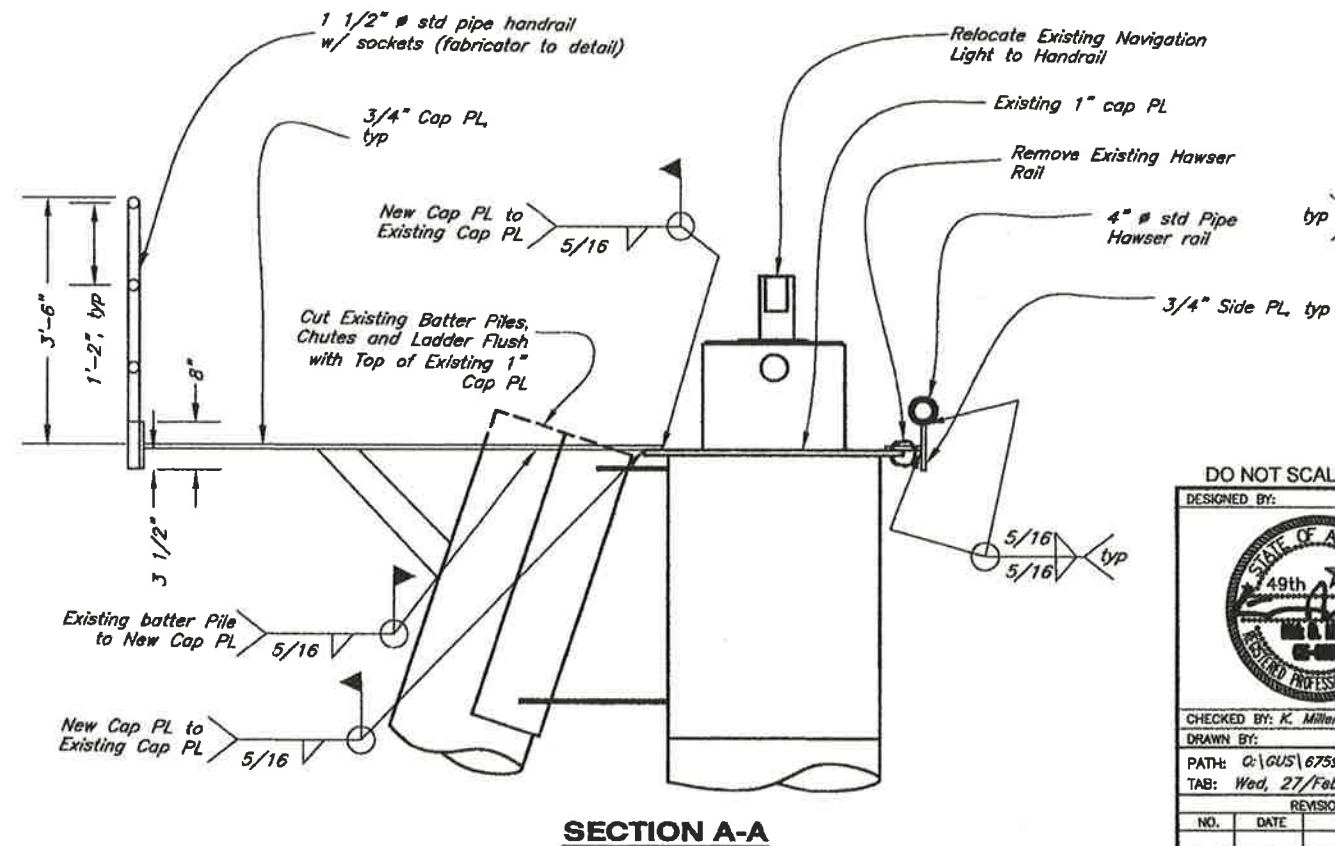
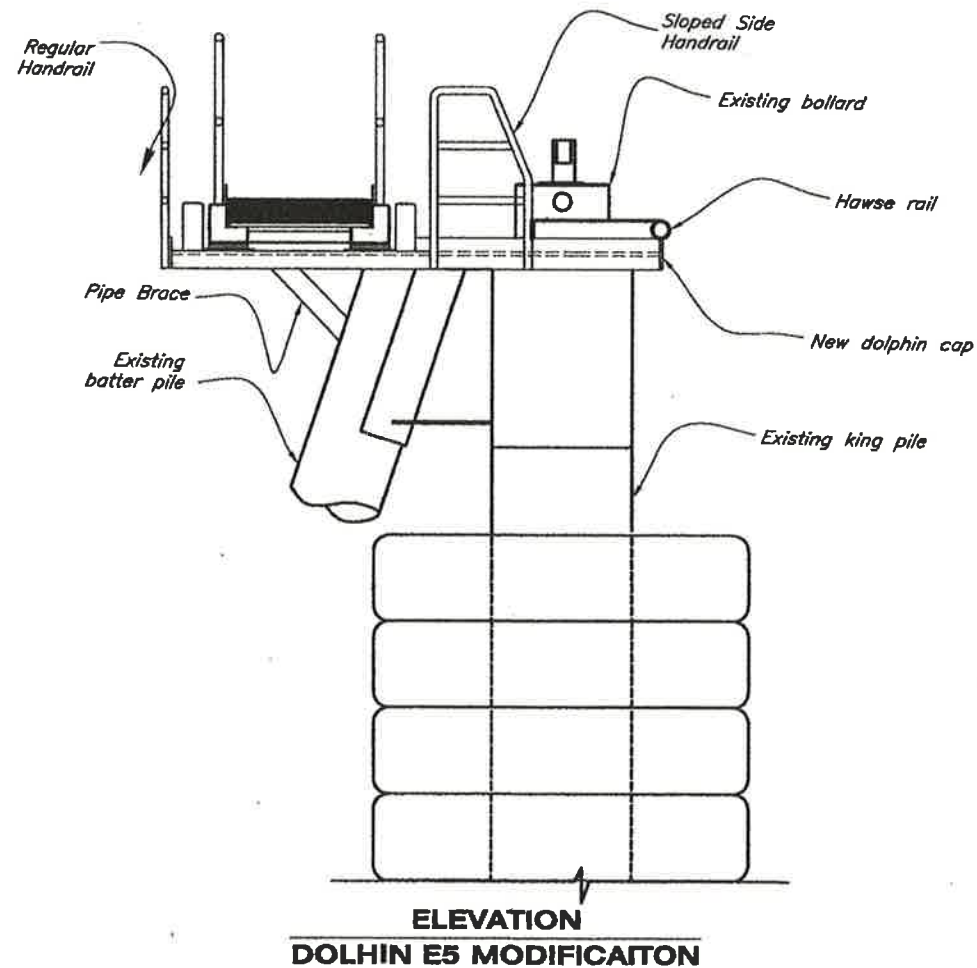
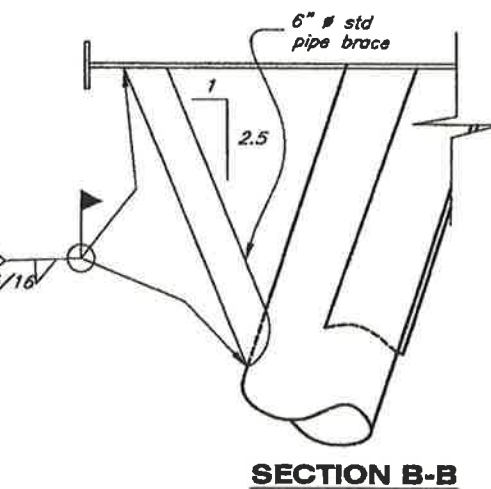
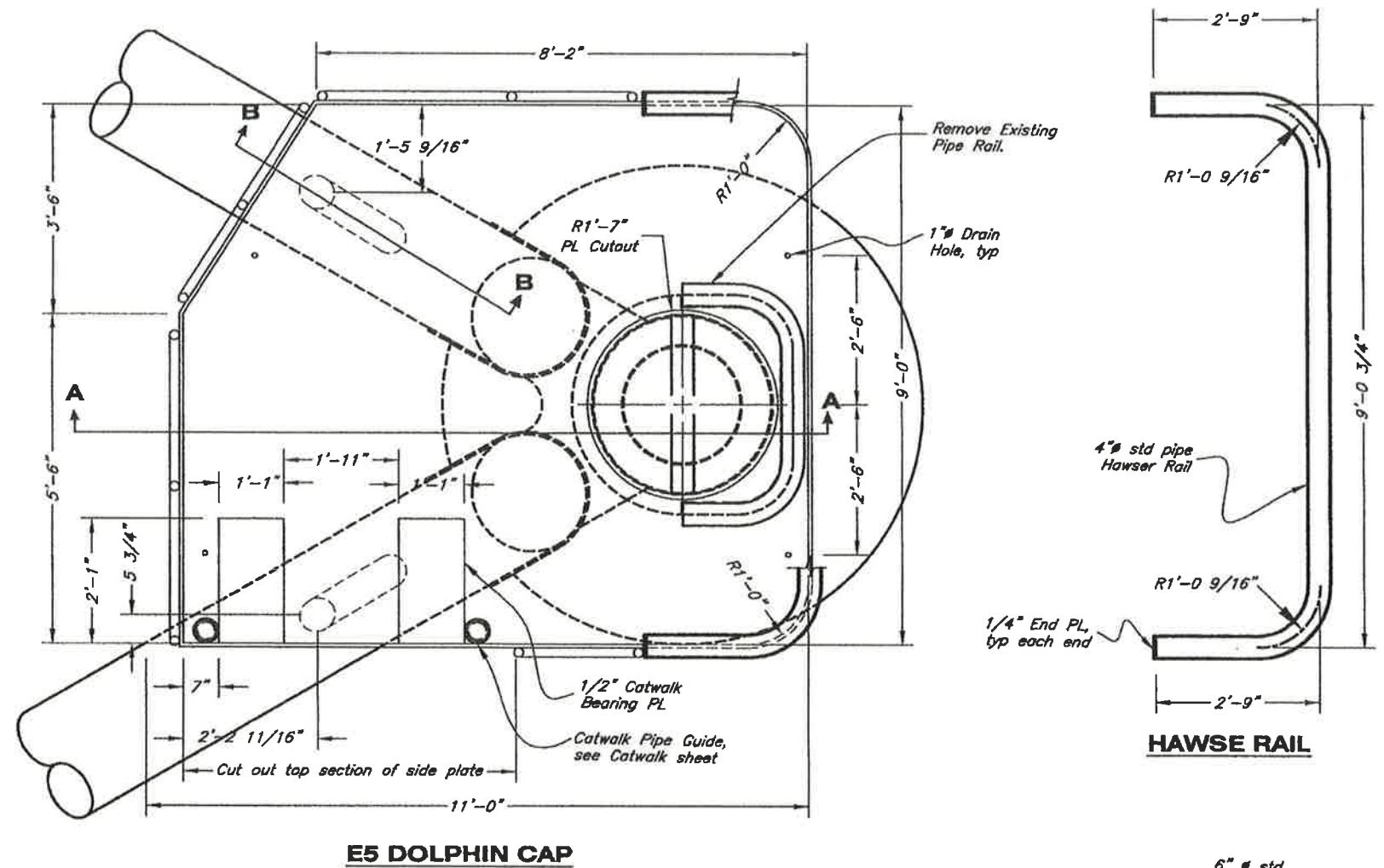
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6

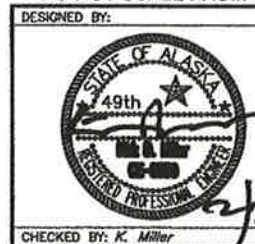
C.O. #25, New Item 504(25) Improved Access



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Alan Miller Date 8-21-17



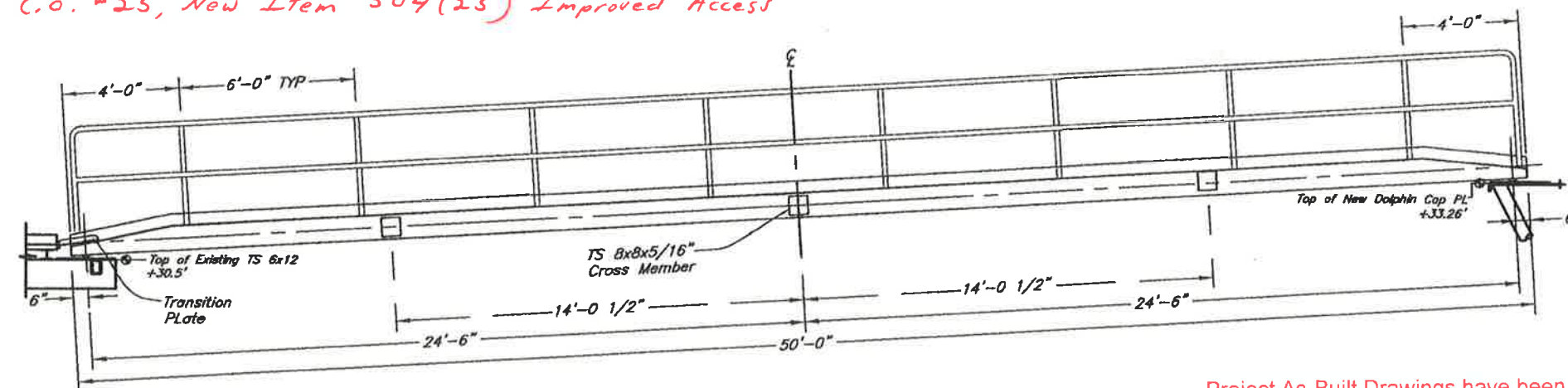
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
Gustavus Causeway Misc Repairs
RFP-08
Dolphin E5 Cap Modification

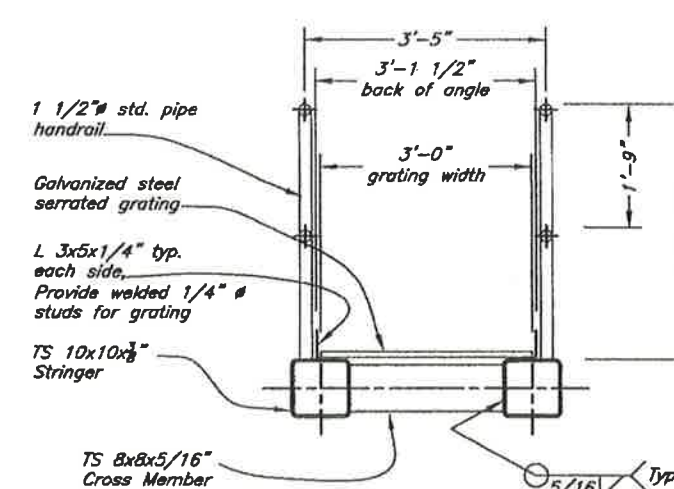
DESIGNED BY:	CHECKED BY: K. Miller	DRAWN BY:	DATE:	DESCRIPTION:	PROJECT DESIGNATION:	YEAR:	SHEET NO.:	TOTAL SHEETS:
			2/2/13		67599	2013	3	6

C.O. #25, New Item 504(25) Improved Access



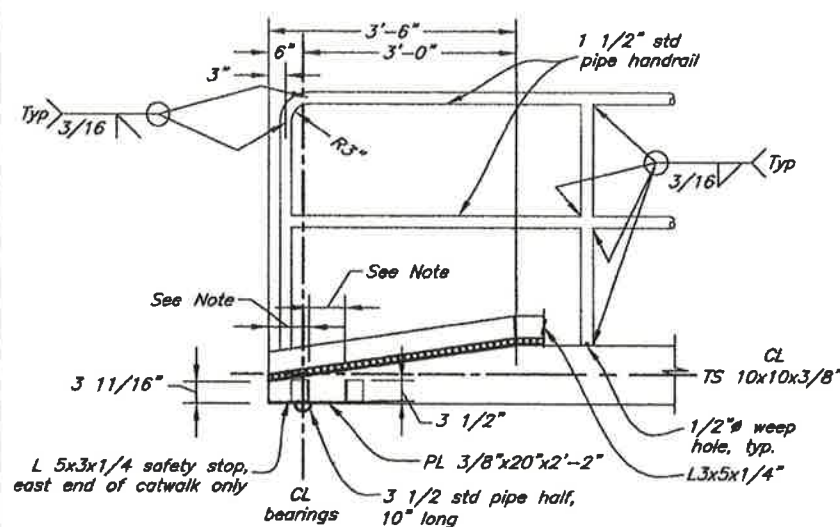
Catwalk Elevation

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Stan Mith Date 8-21-17



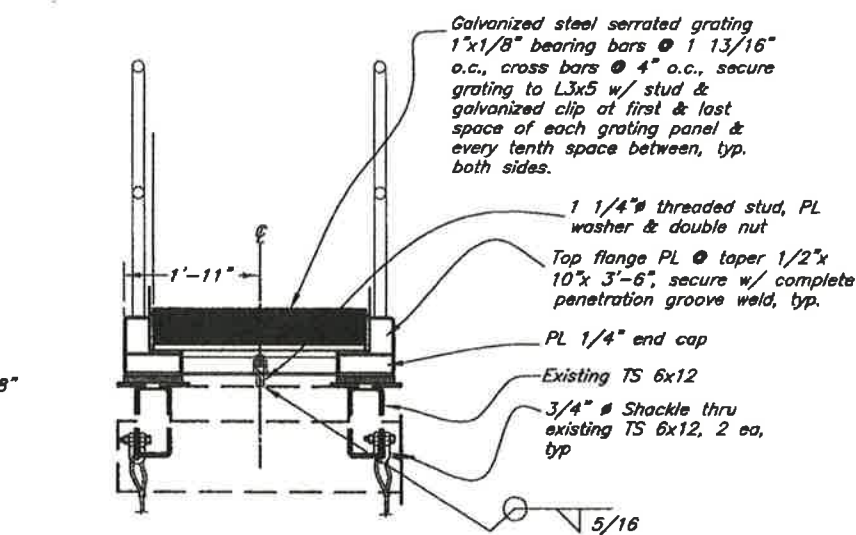
Typical Section

- NOTES:
- 1) The fully erected catwalk structure shall only be supported at the bearings. Catwalks may be lifted at their quarter points by padded straps or by addition of pad eyes at quarter points (submit details).
 - 2) Catwalks shall be galvanized.

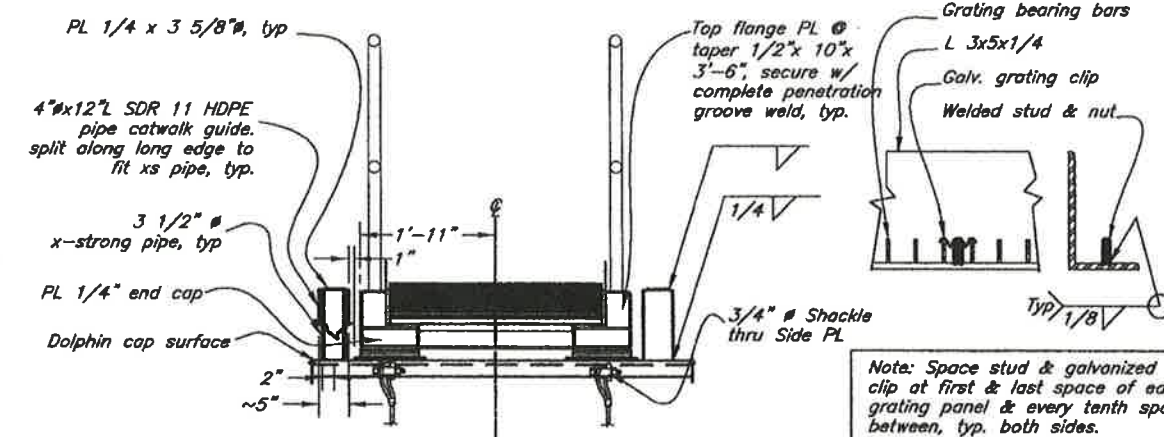


End Elevation

Note: Dimension varies. Field locate safety stops on each side of catwalk accounting for catwalk angle. Allow 5.3" of movement between pipe guide and angles when catwalk is centered between dolphins. Position safety stops to be parallel with pipe guides.



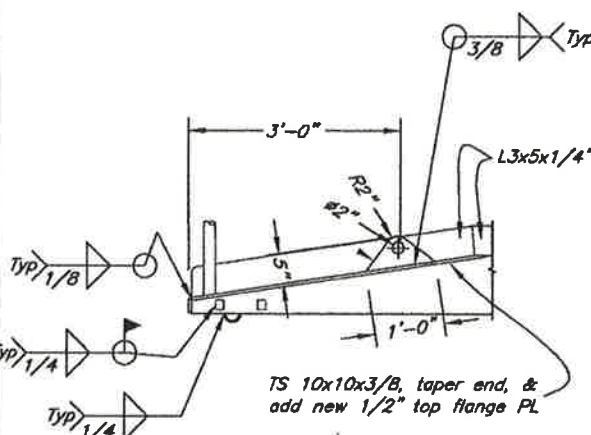
West End View @ Tapered End



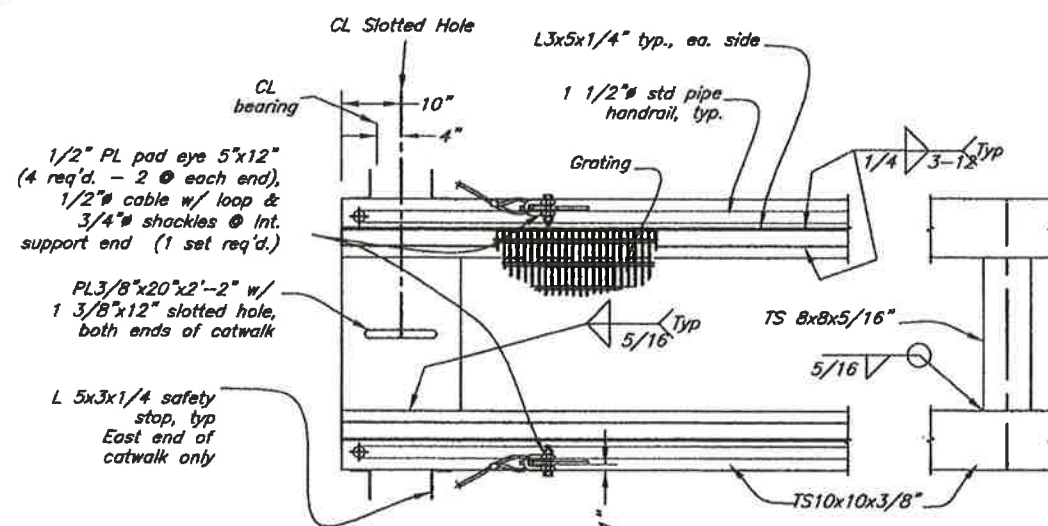
East End View @ Tapered End

Grate Clip Detail

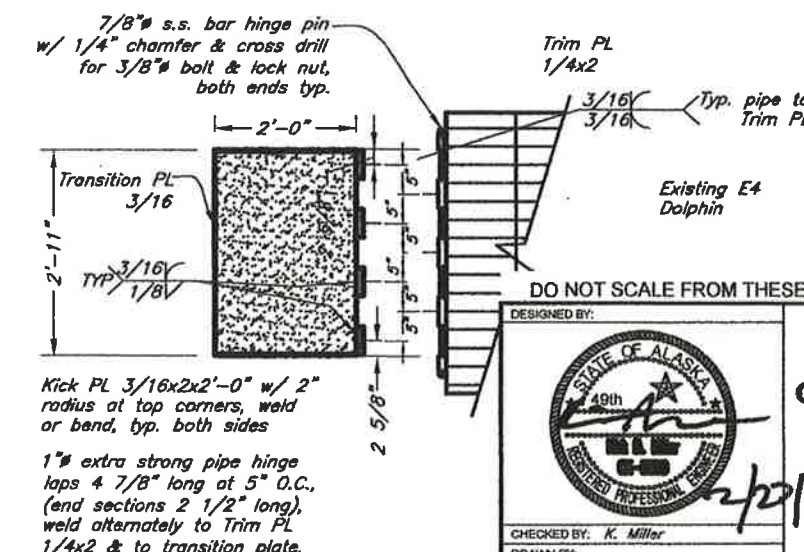
Note: Space stud & galvanized clip at first & last space of each grating panel & every tenth space between, typ. both sides.



Safety Cable Detail



End Plan

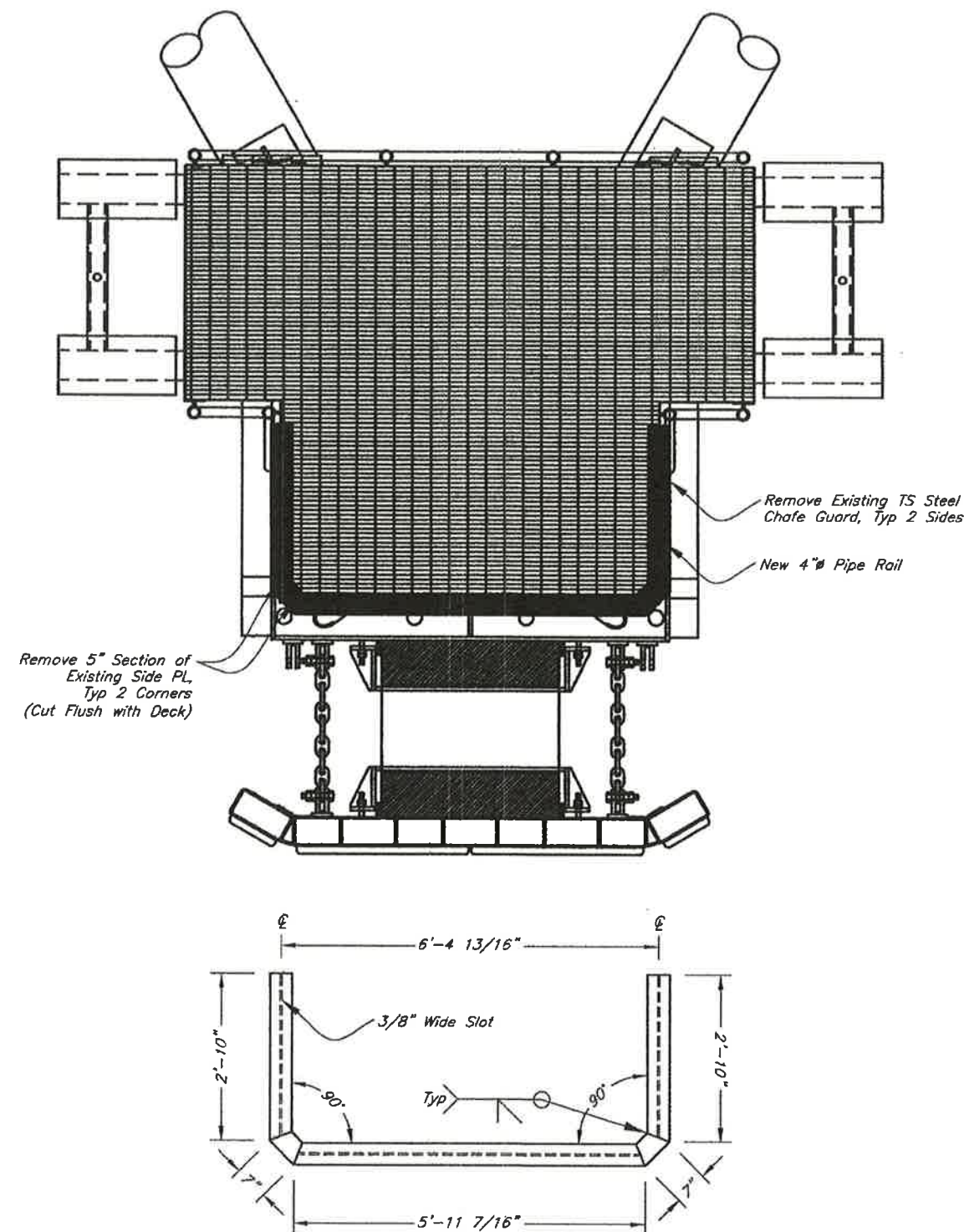


Transition PL Assembly Plan

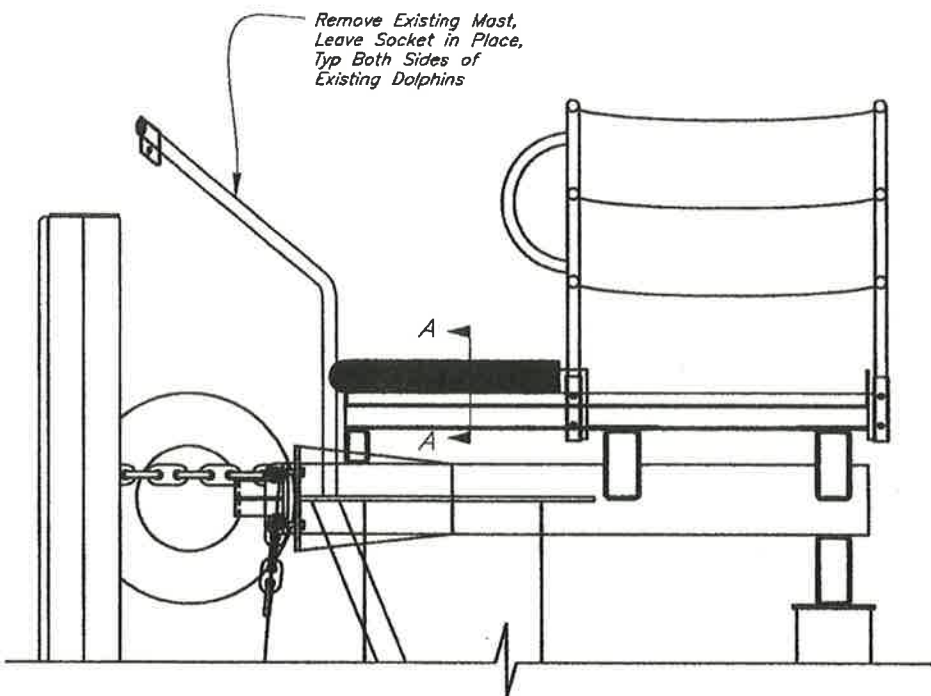
Note: Apply epoxy grit non-skid surface to top of transition PL and hinge laps w/ serrated trowel

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION		Gustavus Causeway Misc Repairs	
RFP-08 Catwalk Details		2/2/13	
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS		DESIGNED BY: [Signature]	
CHECKED BY: K. Miller		DRAWN BY: [Signature]	
PATH: G:\GUS\67599\MF\DESIGN MODS 2013\CATWALK & MISC\DWG\SHEET 3 - CATWALK.DWG		TAB: Wed, 27/Feb/13 11:56AM	
REVISIONS:		PROJECT DESIGNATION: 67599	
NO.	DATE	DESCRIPTION	YEAR
			2013
SHEET NO.: 4		TOTAL SHEETS: 6	

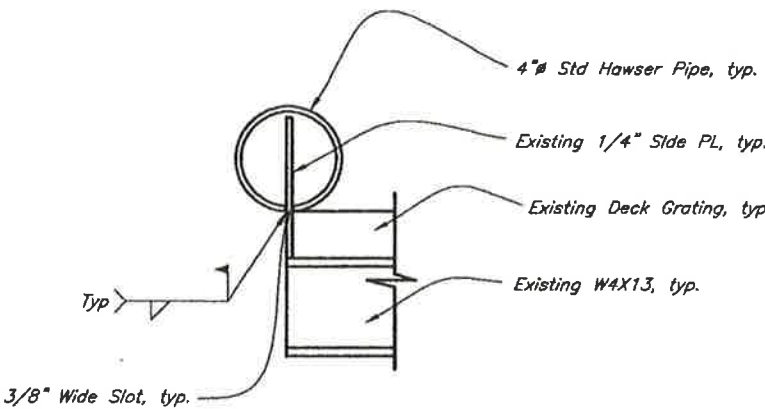
C.O. #25, New Item 504(25) Improved Access



PIPE RAIL PLAN



PIPE RAIL ELEVATION



SECTION A-A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Steen Miller Date 8-21-17

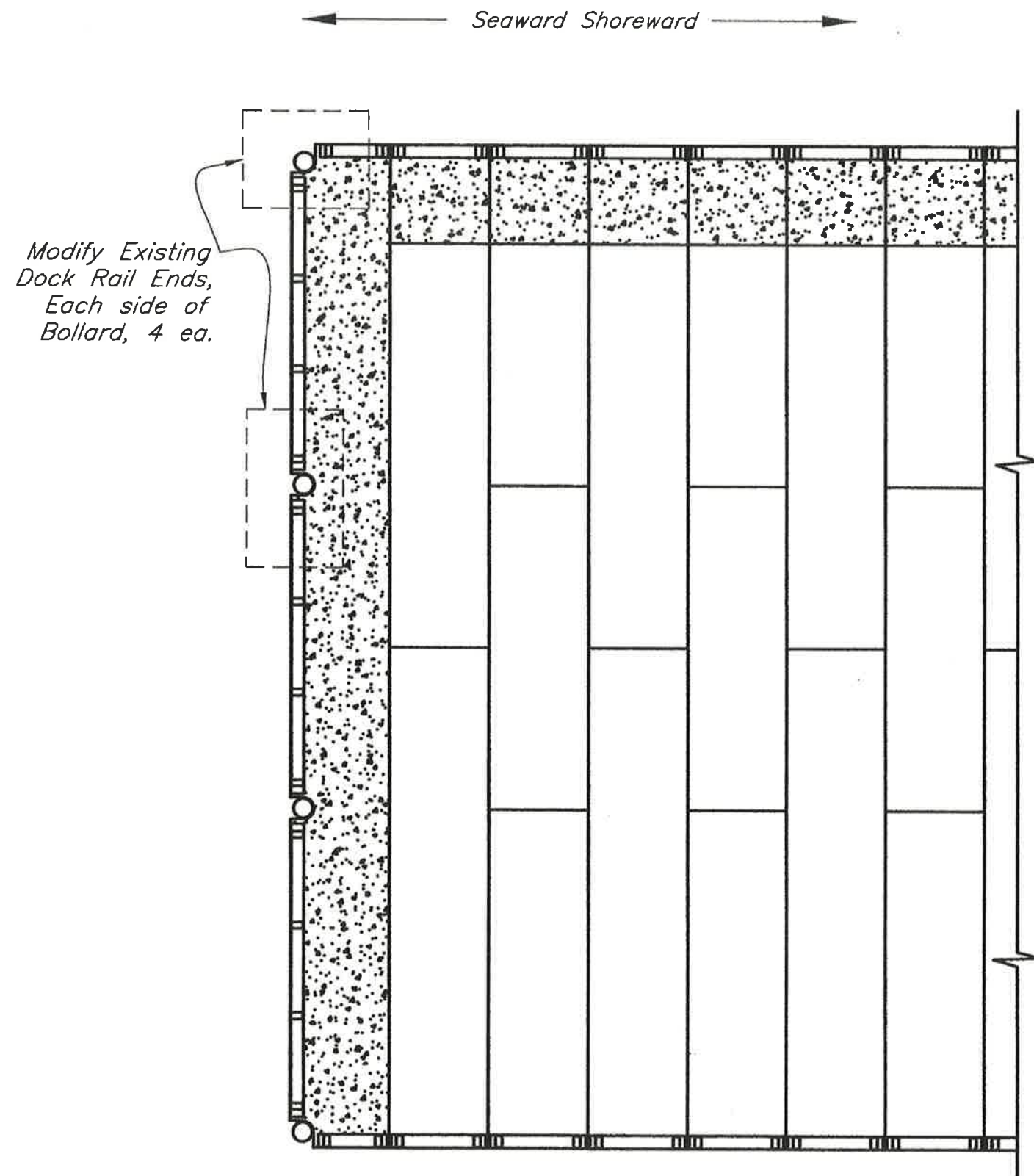
Note:
Contractor may furnish pipe rail in several sections and assemble in the field

4 EACH REQUIRED
DOLPHINS E1-E4

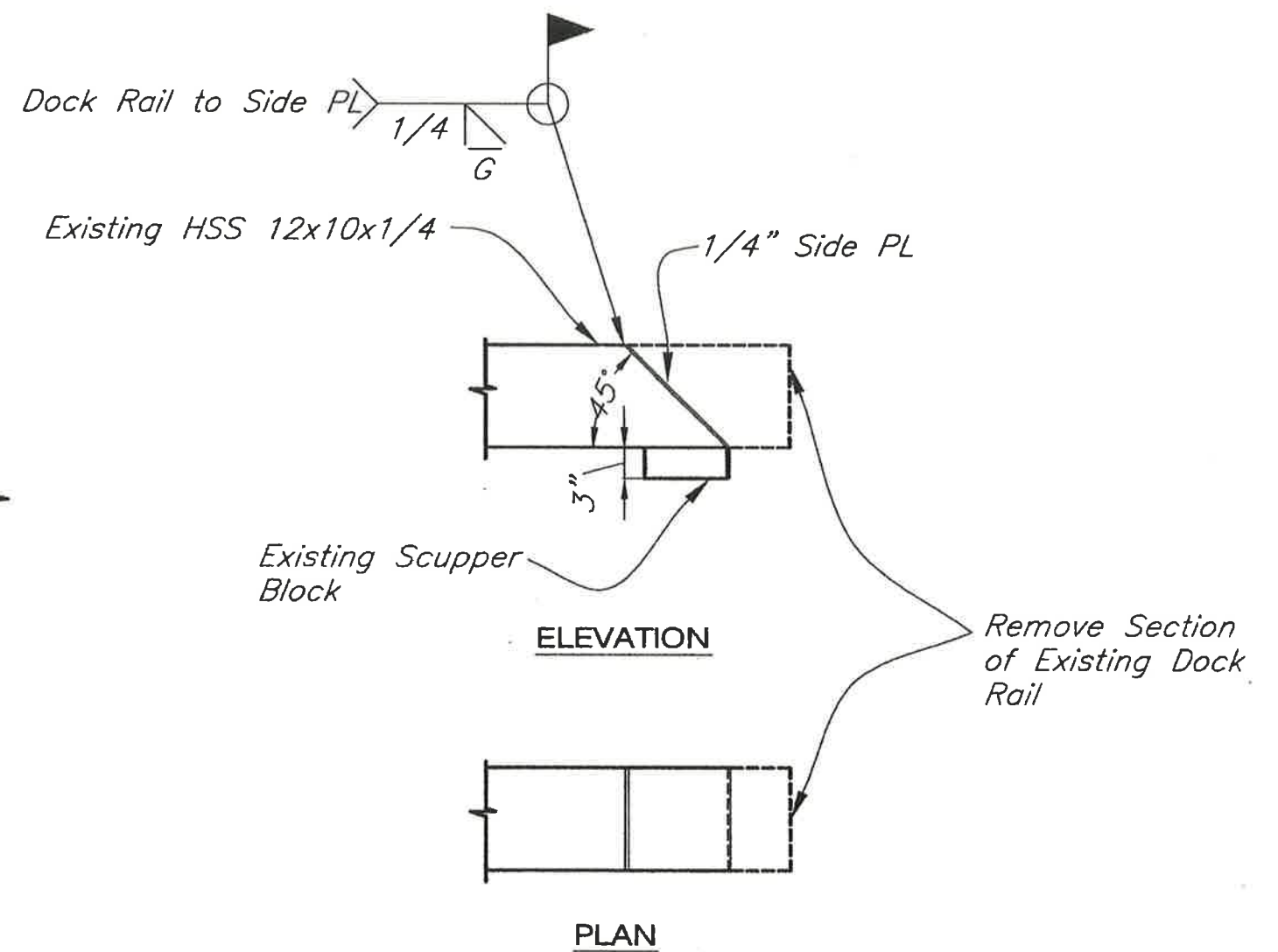
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION					
DRAWN BY:		Gustavus Causeway Misc Repairs					
CHECKED BY: K. Miller		RFP 08 Dolphin Pipe Rail Details					
PATH: Q:\GUS\67599\MF\DESIGN MODS 2013\CATWALK & MISC\DWG\SHEET 4 - PIPE RAIL MODS.DWG		LOWELL, DAVID H (DOT) 50					
TAB: Wed, 27/Feb/13 11:58AM							
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION		67599	2013	5	6

C.O. #25, New Item 504(25) Improved Access



EXISTING DOCK RAIL LAYOUT



DOCK RAIL MODIFICATIONS

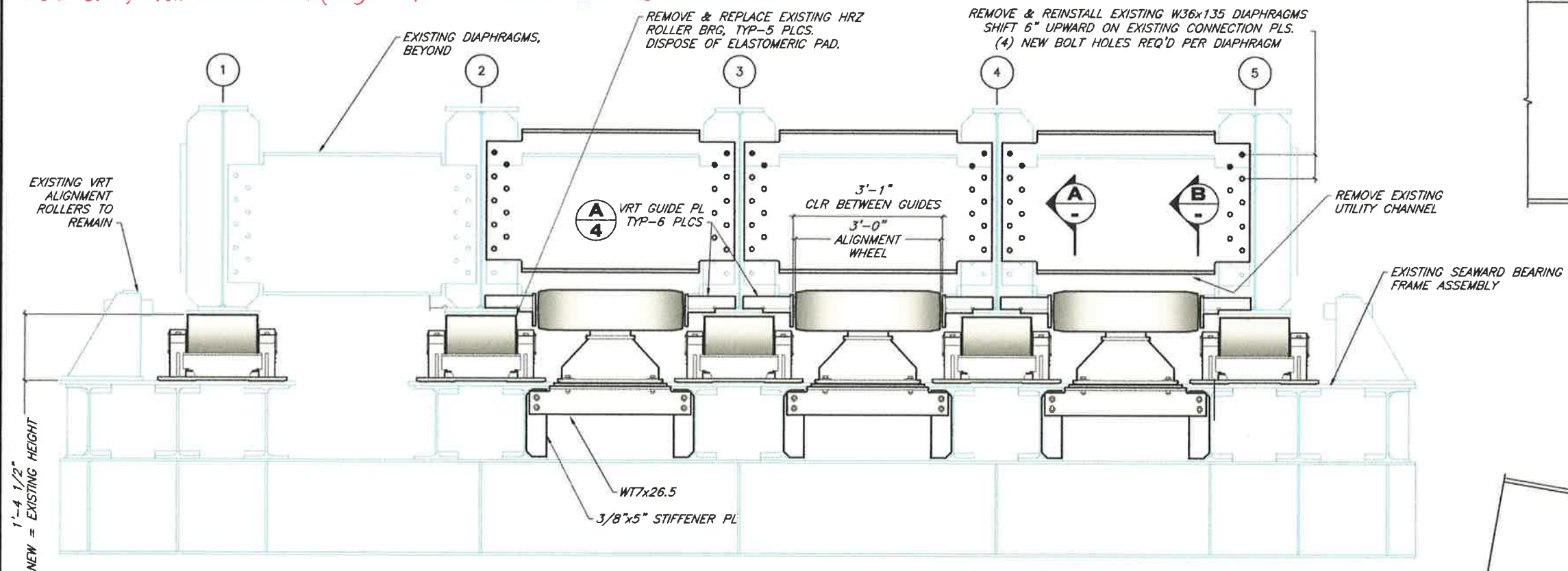
(4 REQUIRED)

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

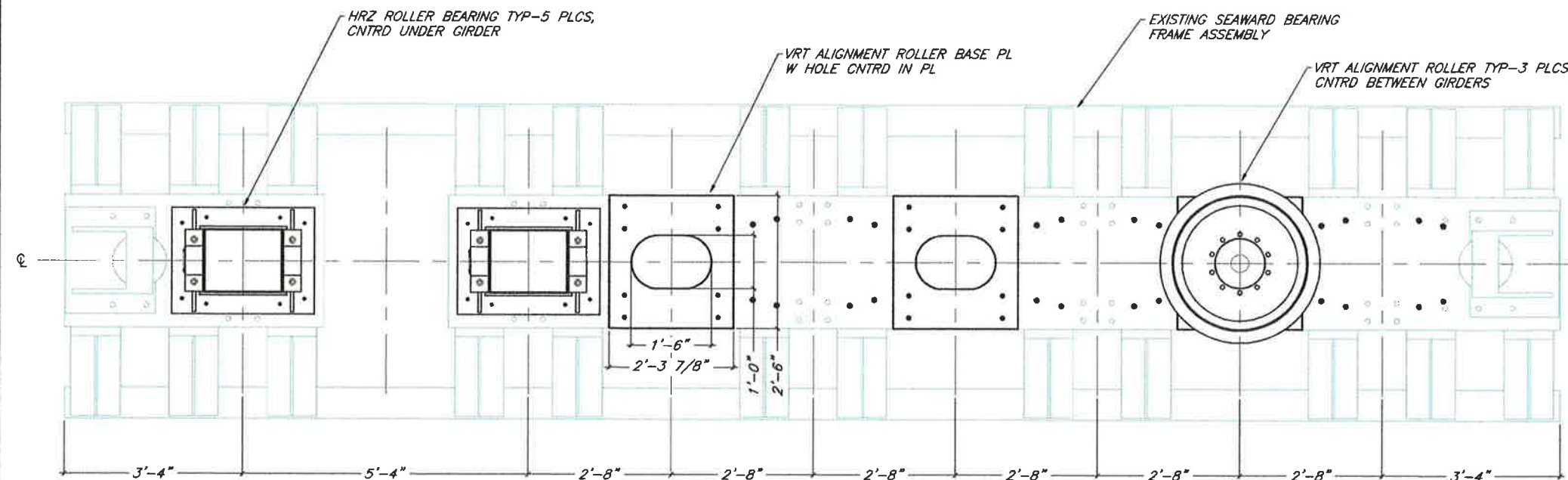
PE Steven Smith Date 8-21-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS DESIGNED BY: 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING DIVISION-SOUTHEAST REGION Gustavus Causeway Misc Repairs RFP-08 Dock Rail Modification													
CHECKED BY: K. Miller DRAWN BY:		PATH: Q:\GUS\67599\MF\DESIGN MOOS 2013\CATWALK & MISC\DWG\SHEET 5 - DOCK RAILS MOOS.DWG TAB: Wed, 27/Feb/13 11:59AM LOWELL, DAVID H (DOT) <i>SL</i>													
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION										PROJECT DESIGNATION 67599 YEAR 2013 SHEET NO. 6 TOTAL SHEETS 6	
NO.	DATE	DESCRIPTION													

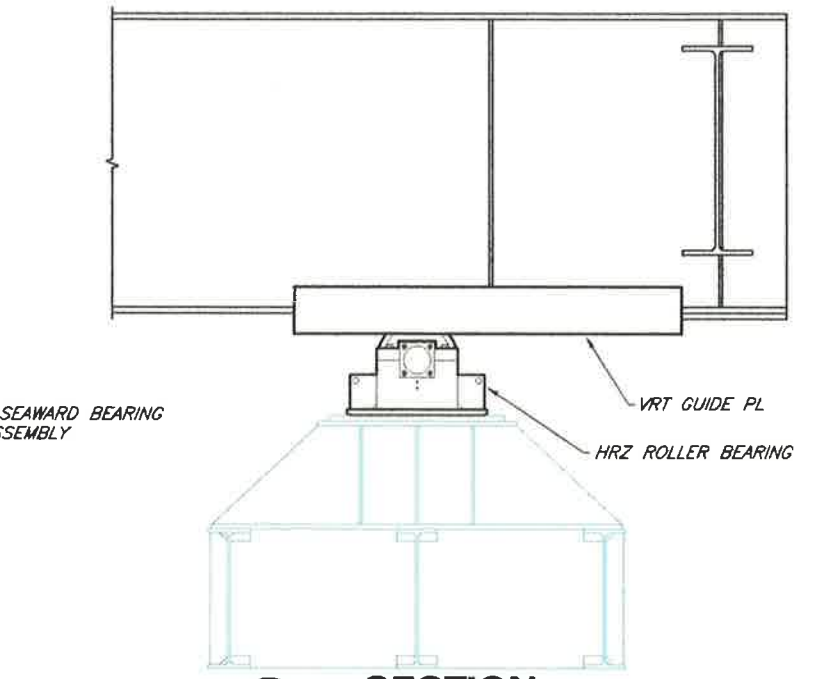
C.O. #26, New Item 504(56) Improved Roller Bearing Assemblies



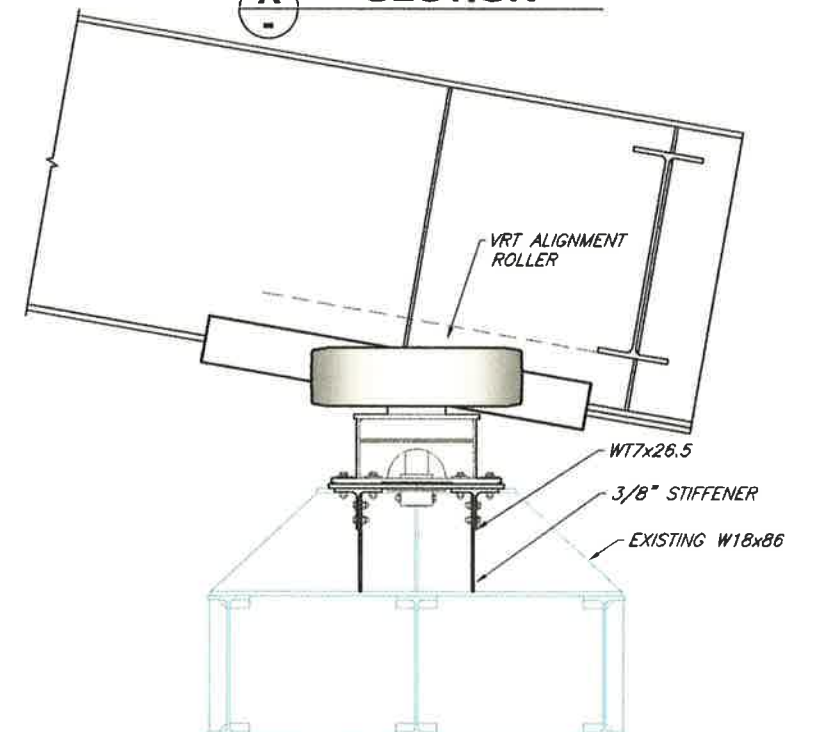
**ELEVATION
LOOKING SEAWARD**



PLAN



A SECTION



B SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOUGETT



CHECKED BY: K. MILLER

DRAWN BY: STAFF

PATH: G:\PROJECTS\GUS\67599\MF\DESIGN MODS 2013\BRIDGE BEARINGS\DWG\SEAWARD BEARINGS_R0

TAB: 1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

**GUSTAVUS FERRY TERMINAL
CONSTRUCTION MODS**

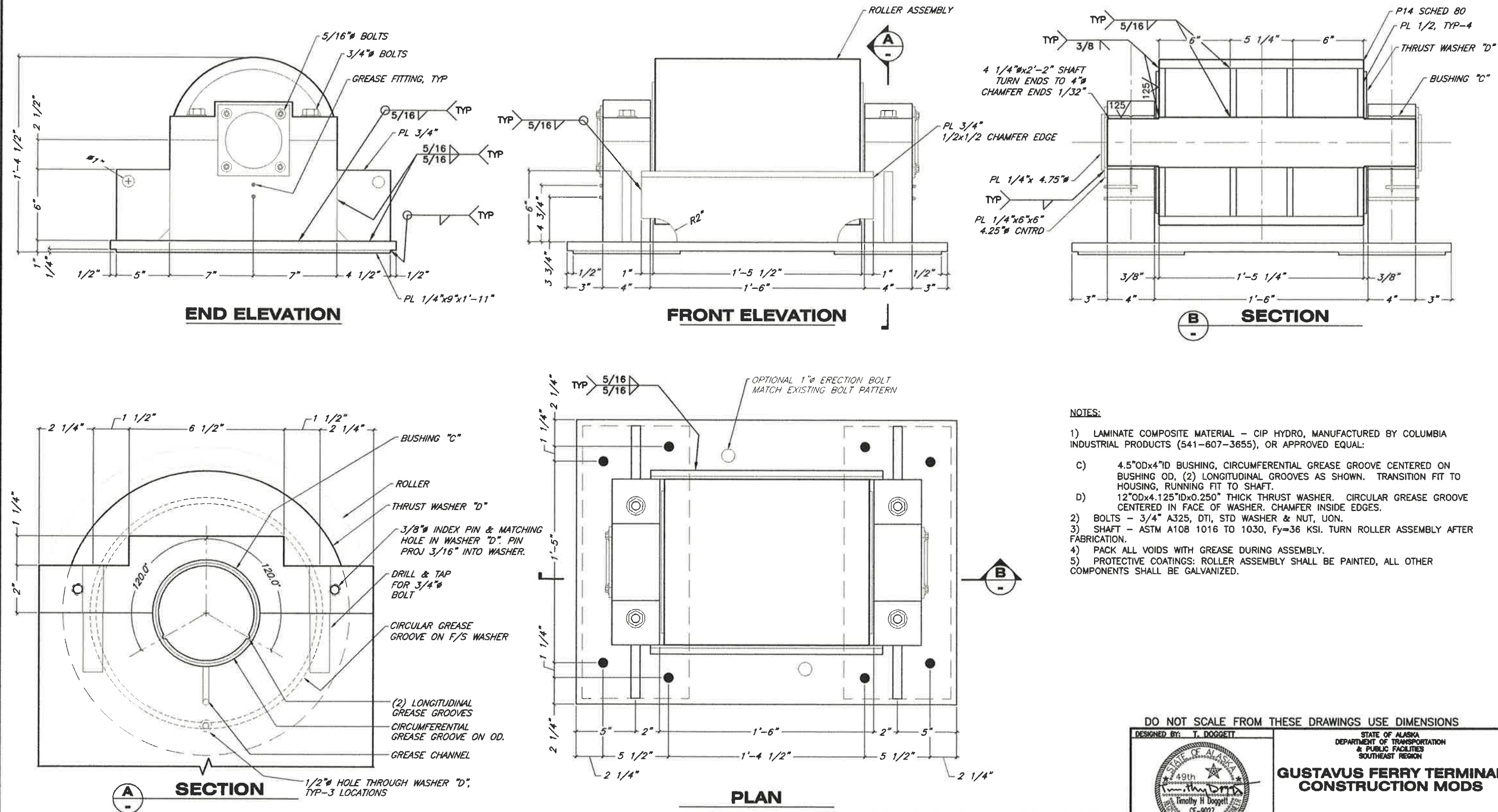
**SEAWARD BEARING
GENERAL LAYOUT**

52

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Stan Miller* Date *8-21-17*

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67599	2013	1	4

C.O. #26, New Item 504(56) Improved Roller Bearing Assemblies



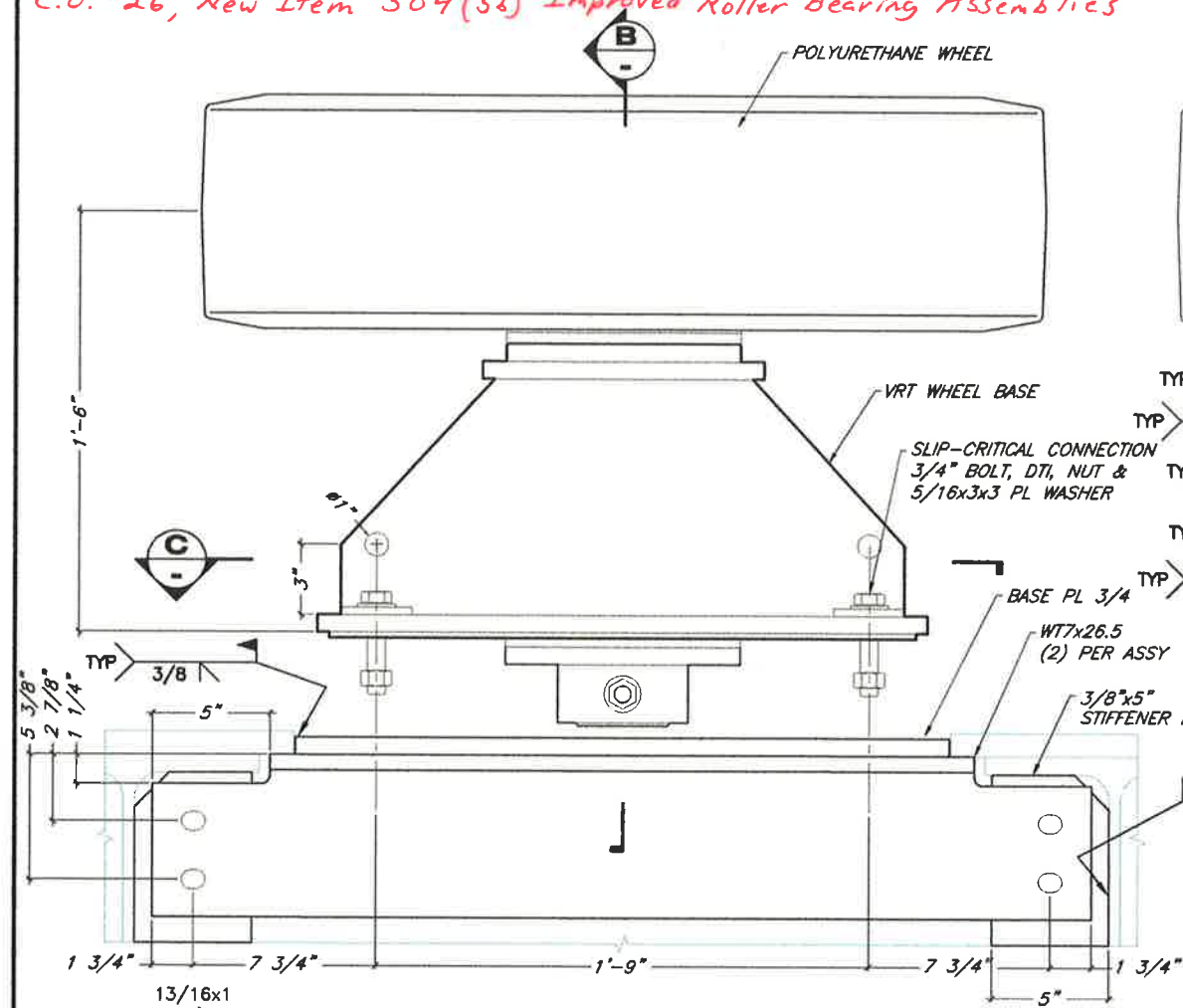
- NOTES:
- 1) LAMINATE COMPOSITE MATERIAL - CIP HYDRO, MANUFACTURED BY COLUMBIA INDUSTRIAL PRODUCTS (541-607-3655), OR APPROVED EQUAL:
 - C) 4.5"ODx4"ID BUSHING, CIRCUMFERENTIAL GREASE GROOVE CENTERED ON BUSHING OD, (2) LONGITUDINAL GROOVES AS SHOWN. TRANSITION FIT TO HOUSING, RUNNING FIT TO SHAFT.
 - D) 12"ODx4.125"IDx0.250" THICK THRUST WASHER. CIRCULAR GREASE GROOVE CENTERED IN FACE OF WASHER. CHAMFER INSIDE EDGES.
 - 2) BOLTS - 3/4" A325, DTI, STD WASHER & NUT, UON.
 - 3) SHAFT - ASTM A108 1016 TO 1030, Fy=36 KSI. TURN ROLLER ASSEMBLY AFTER FABRICATION.
 - 4) PACK ALL VOIDS WITH GREASE DURING ASSEMBLY.
 - 5) PROTECTIVE COATINGS: ROLLER ASSEMBLY SHALL BE PAINTED, ALL OTHER COMPONENTS SHALL BE GALVANIZED.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Sten Smith Date 8-21-17

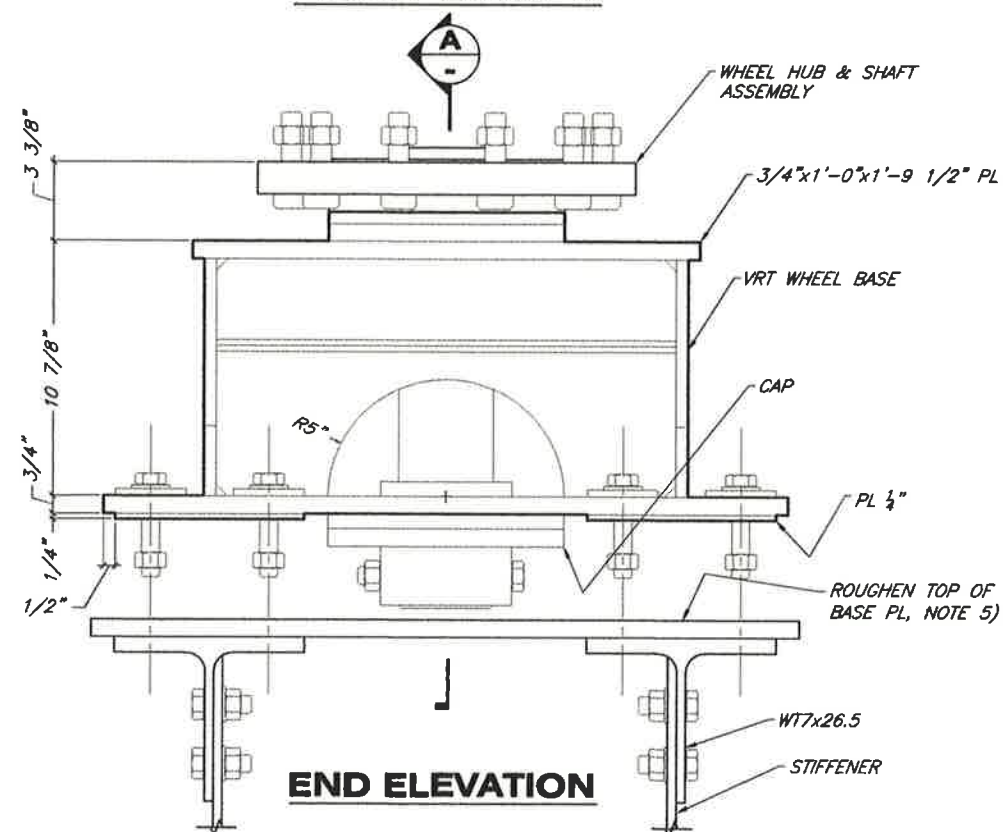
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	GUSTAVUS FERRY TERMINAL CONSTRUCTION MODS
CHECKED BY: K. MILLER DRAWN BY: STAFF	ROLLER BEARING
PATH: G:\PROJECTS\GUS\67599\MF\DESIGN MODS 2013\BRIDGE BEARINGS\DWG\SEAWARD BEARINGS_RO. TAB: 2	53
REVISIONS NO. DATE DESCRIPTION	PROJECT DESIGNATION 67599
	YEAR 2013
	SHEET NO. 2
	TOTAL SHEETS 4

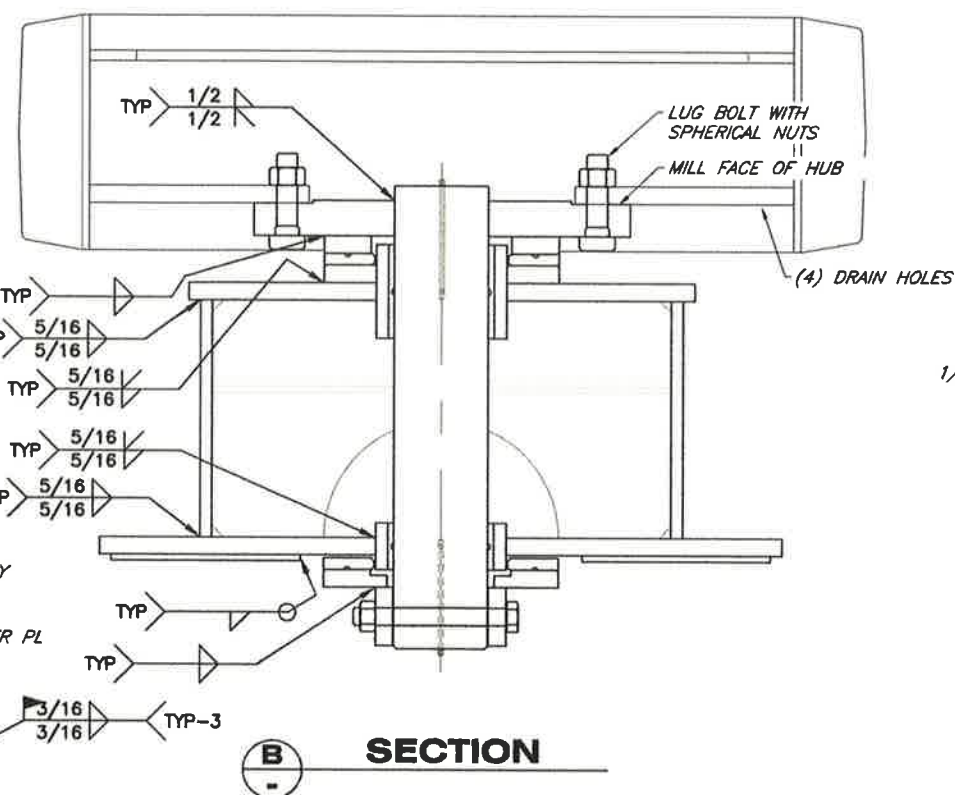
C.O. #26, New Item 504 (56) Improved Roller Bearing Assemblies



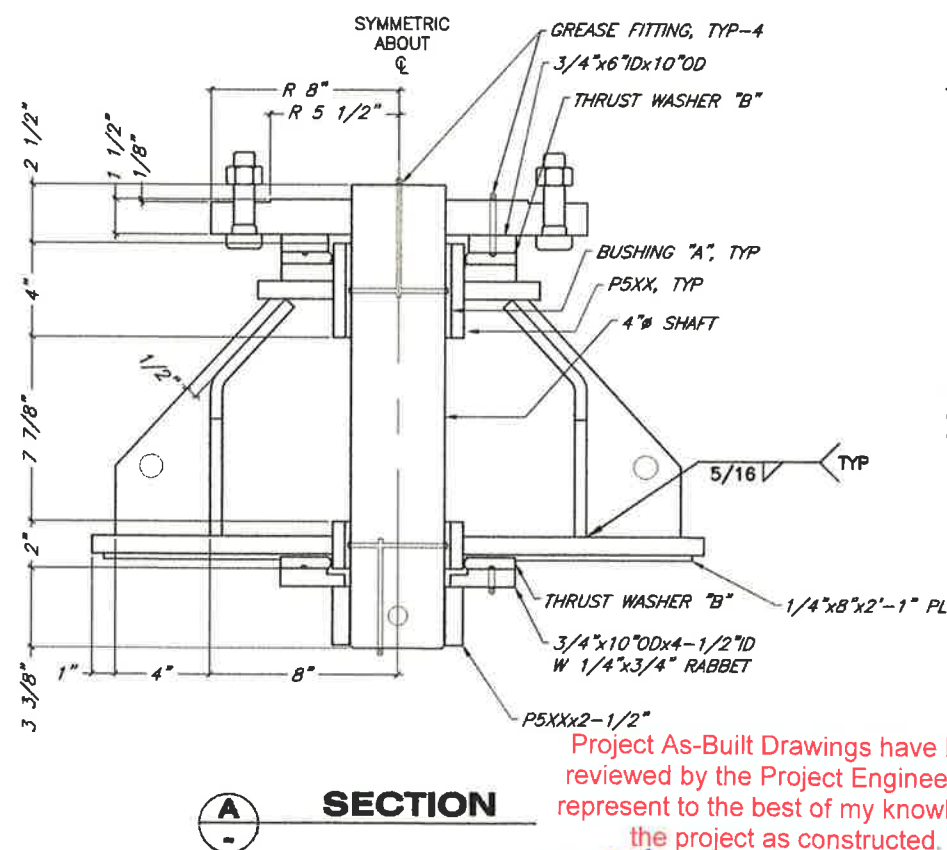
SIDE ELEVATION



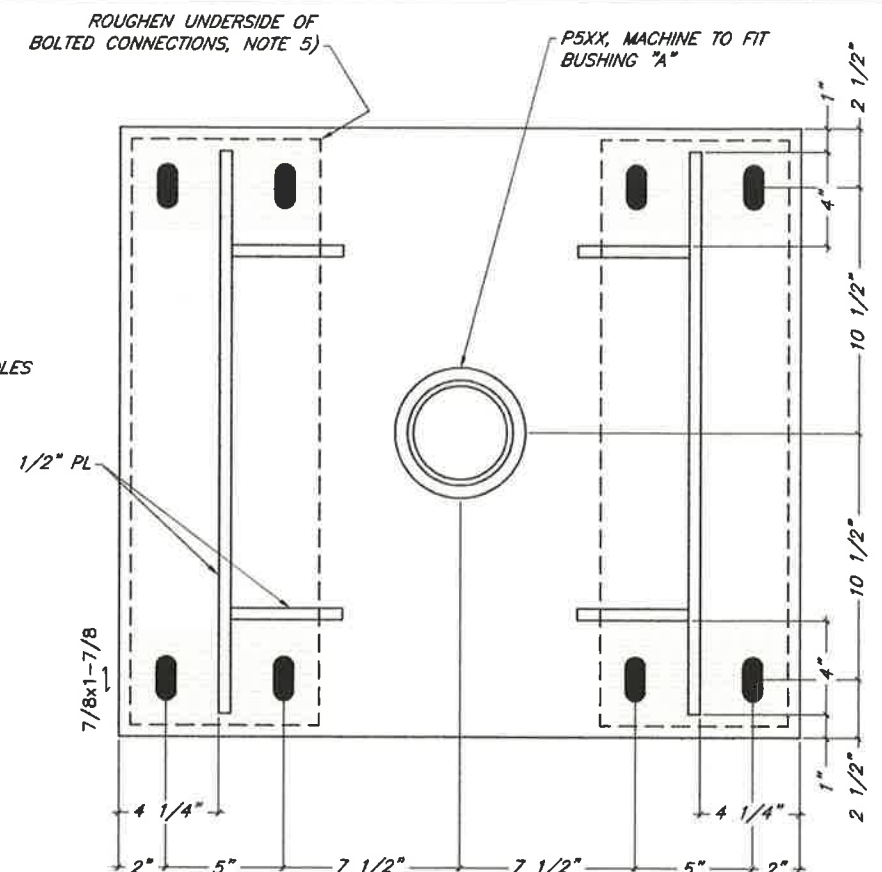
END ELEVATION



SECTION B-B



SECTION A-A



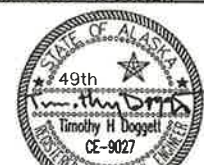
SECTION C-C

NOTES:

- 1) LAMINATE COMPOSITE MATERIAL - CIP HYDRO, MANUFACTURED BY COLUMBIA INDUSTRIAL PRODUCTS (541-607-3655), OR APPROVED EQUAL:
 - A) 4.5\"ODx4\"ID BUSHING, CIRCUMFERENTIAL GREASE GROOVE CENTERED IN BUSHING. TRANSITION FIT TO HOUSING, RUNNING FIT TO SHAFT.
 - B) 10\"ODx5.625\"IDx0.500\" THICK THRUST WASHER. CIRCULAR GREASE GROOVE CENTERED IN FACE OF WASHER. CHAMFER INSIDE EDGES.
- 2) POLYURETHANE WHEEL - 36x10x30 MODEL M/L 08, MANUFACTURED BY SUPERIOR TIRE & RUBBER CORP (800-289-1456, EXT 102) OR APPROVED EQUAL. INSTALL HOLES TO PERMIT WHEEL TO DRAIN FREELY.
- 3) BOLTS - 3/4\" A325, STD WASHER & NUT, UON.
- 4) SHAFT - ASTM A108 1016 TO 1030, Fy=36 KSI.
- 5) GALVANIZED FAYING SURFACES OF SLIP-CRITICAL BOLTED CONNECTIONS SHALL BE ROUGHENED BY HAND WIRE BRUSHING PRIOR TO ASSEMBLY.
- 6) PROTECTIVE COATINGS: WHEEL HUB & SHAFT ASSEMBLY SHALL BE PAINTED, ALL OTHER COMPONENTS SHALL BE GALVANIZED.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT



CHECKED BY: K. MILLER

DRAWN BY: STAFF

PATH: G:\PROJECTS\GUS\67599\MF\DESIGN MODS 2013\BRIDGE BEARINGS\DWG\SEAWARD BEARINGS_00

TAB: 3

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

**GUSTAVUS FERRY TERMINAL
CONSTRUCTION MODS**

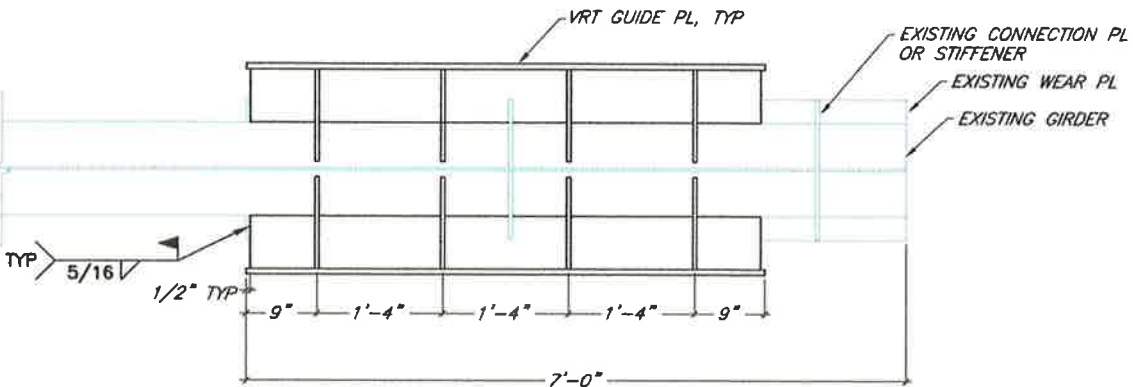
**VERTICAL ALIGNMENT
ROLLER**

54

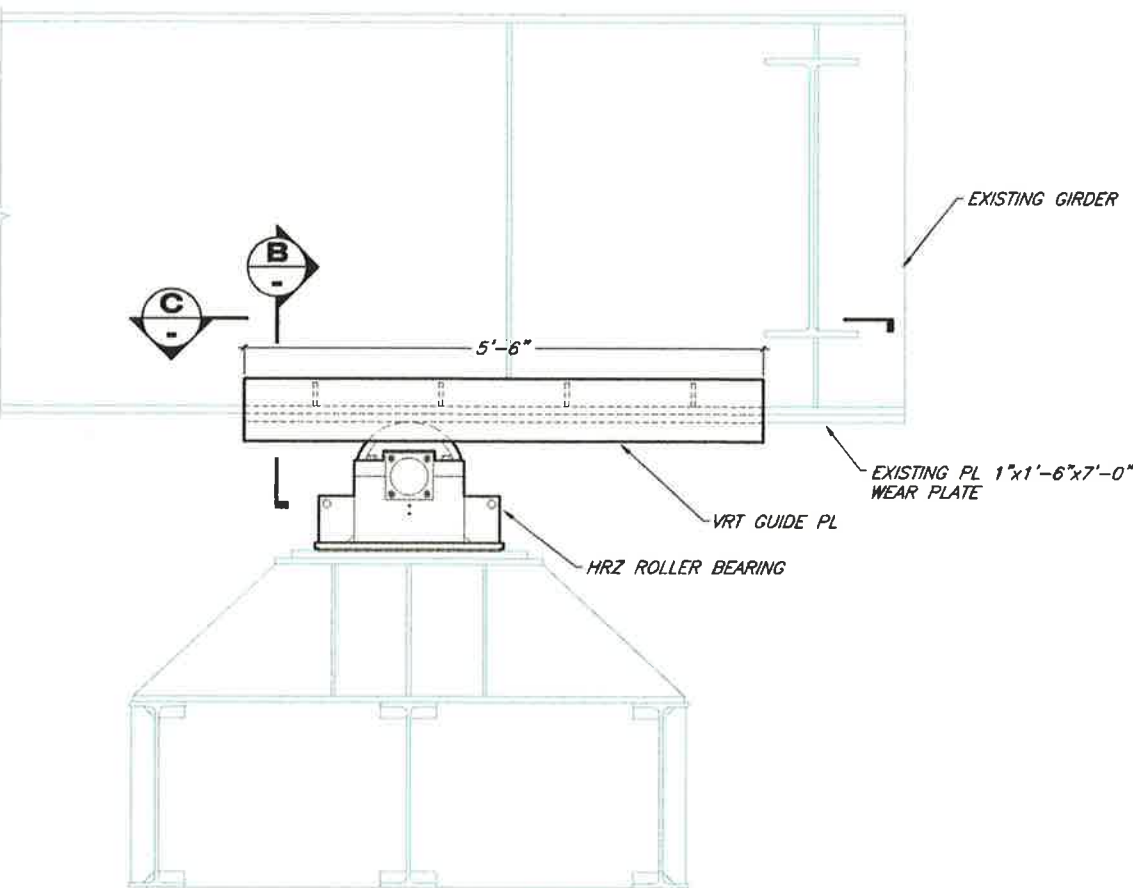
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Stan Miller* Date 8.21.17

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67599		2013	3	4

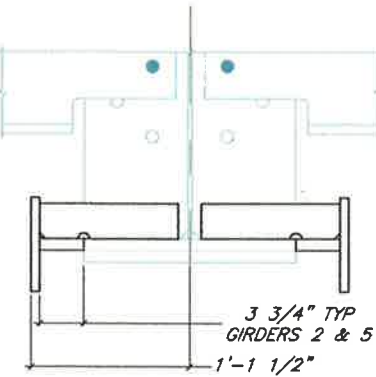
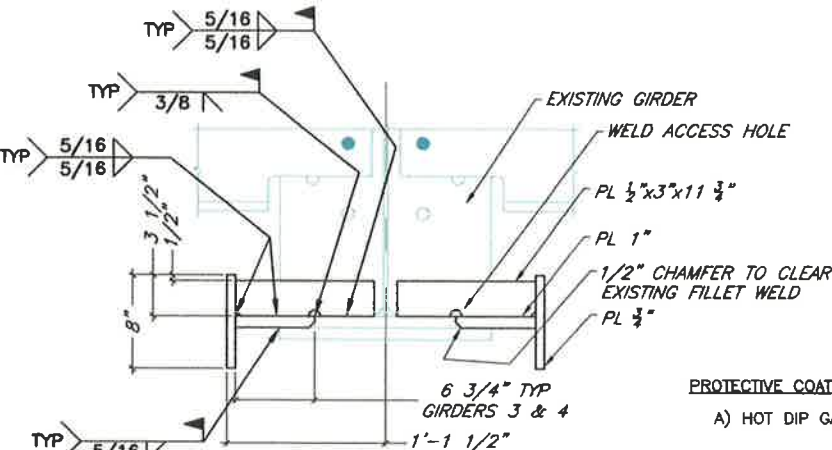
C.O. #26, New Item 504(56) Improved Roller Bearing Assemblies



C SECTION



A ELEVATION
4 VRT GUIDE PL



OTHER DIMENSIONS AND DETAILS SIMILAR TO ABOVE.

B SECTION

PROTECTIVE COATINGS:

A) HOT DIP GALVANIZED (HDG): GALVANIZE IN ACCORDANCE WITH 67599 PROJECT SPECIFICATIONS.

FIELD REPAIR OF GALVANIZED COATINGS BY HOT-STICKING PER SPECIFICATIONS.

FAYING SURFACES OF SLIP-CRITICAL BOLTED CONNECTIONS SHALL BE ROUGHENED TO PRODUCE CLASS 'A' SLIP RESISTANCE.

B) PAINTED STEEL STRUCTURES (PAINT): PAINT PROTECTION SHALL BE INORGANIC ZINC SILICATE PRIMER, EPOXY INTERMEDIATE, AND POLYURETHANE TOPCOAT. PAINT COATINGS SHALL BE SHOP APPLIED AFTER FABRICATION.

PAINT COMPONENTS CONSIST OF THE FOLLOWING PRODUCTS OR APPROVED EQUAL:

- 1) PRIMARY COAT - INORGANIC ZINC SILICATE PRIMER: INTERNATIONAL COATINGS, CATHACOAT 302HB (DFT 3-4 MILS)
- 2) INTERMEDIATE - HIGH BUILD POLYAMIDE EPOXY: DEVOE COATINGS, BAR-RUST 235. (DFT 6-8 MILS)
- 3) TOPCOAT - HIGH BUILD ALIPHATIC URETHANE: TOPCOAT COLOR SHALL BE "SAFETY BLUE". (DFT 4-6 MILS)

REMOVE WELD SPATTER AND SMOOTH WELD SEAMS AND SHARP EDGES. STEEL SURFACES SHALL BE PREPARED FOR COATING BY ABRASIVE GRIT BLASTING IN ACCORDANCE WITH SSPC SP10. SOLVENT WASH PER AAPC-SP1 MAY ALSO BE REQUIRED.

ALL COATINGS SHALL BE APPLIED IN THE SHOP ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS USING THE COATING MANUFACTURER'S RECOMMENDED EQUIPMENT.

FIELD REPAIR OF PAINT COATINGS SHALL CONSIST OF A SINGLE COAT EACH OF PRIMER AND TOPCOAT OF URETHANE, AS DESCRIBED ABOVE.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Stan Smith* Date *8-21-17*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
		GUSTAVUS FERRY TERMINAL CONSTRUCTION MODS			
CHECKED BY: K. MILLER DRAWN BY: STAFF		VERTICAL ALIGNMENT GUIDES 55			
PATH: G:\PROJECTS\GUS\67599\MF\DESIGN MODS 2013\BRIDGE BEARINGS\DWG\SEAWARD BEARINGS_R0 TAB: 4					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		67599	2013	4	4

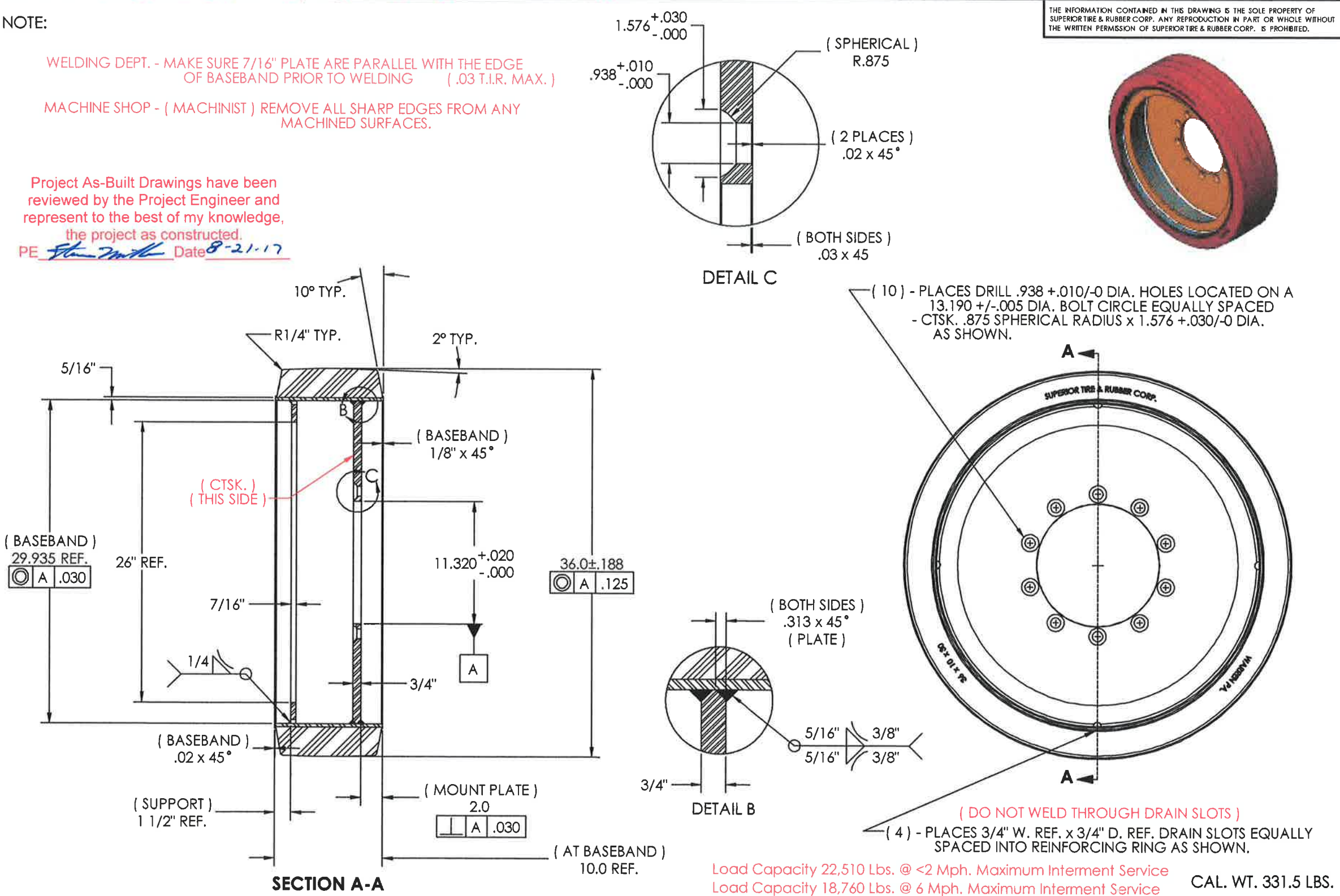
C.O. #26, New Item 504(56) Improved Roller Bearing Assemblies

NOTE:

WELDING DEPT. - MAKE SURE 7/16" PLATE ARE PARALLEL WITH THE EDGE OF BASEBAND PRIOR TO WELDING (.03 T.I.R. MAX.)

MACHINE SHOP - (MACHINIST) REMOVE ALL SHARP EDGES FROM ANY MACHINED SURFACES.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Steve Smith Date 8-21-17



Load Capacity 22,510 Lbs. @ <2 Mph. Maximum Interment Service
Load Capacity 18,760 Lbs. @ 6 Mph. Maximum Interment Service
CAL. WT. 331.5 LBS.

QTY.	FILE No.	MATERIAL DESCRIPTION	DATE	SYM.	REVISION RECORD	AUTH.	DR.	REV. DATE	OEM PART NUMBER	REV. LEVEL	APP. BY.
1	ML-08_PLATE	STEEL - 30 1/4" x 11" x 3/4" PLATE (1018 TYPE)	12-28-07	A	RELEASE DATE	T.P.	J.S.	10/31/2007	15007	B	JEL
1	ML-08_S-PLATE	STEEL - 29 13/16" x 26" x 7/16" PLATE (1018 TYPE)									
1	ML-08_BASEBAND	STEEL - 10" x 30" x 5/16" BASEBAND (1018 TYPE)									
1	ML-08_TIRE	POLYURETHANE - 85 +/- 3 SHORE A E/Z COMPOUND (COLOR - RED)									
N/A	PAINT	ALL EXPOSED STEEL SURFACES FLAT BLACK									

DECIMAL	ITEM NUMBER	SCALE	DRAWN BY.
.030	0805958	NONE	J.S.
FRACTIONAL	ITEM DESCRIPTION		APPROVED BY. (B.C.)C.E.
1/16	MAN & MATERIAL LIFT ENG. 36.0 x 10.0 x 30.0 SF. P. T&W ASSY.		
ANGULAR	DATE	DRAWING NUMBER	
1"	12-28-07	08	M/L 08