

DRAWING LOCATION: P:\ENGINEERING\BRIDGES\BR 064_7 TWENTYMILE RIVER\STRENGTHENING_PROJECT_2022\DRAWINGS\SHEETS\64P7_STRENGTHENING_PLANS.DWG
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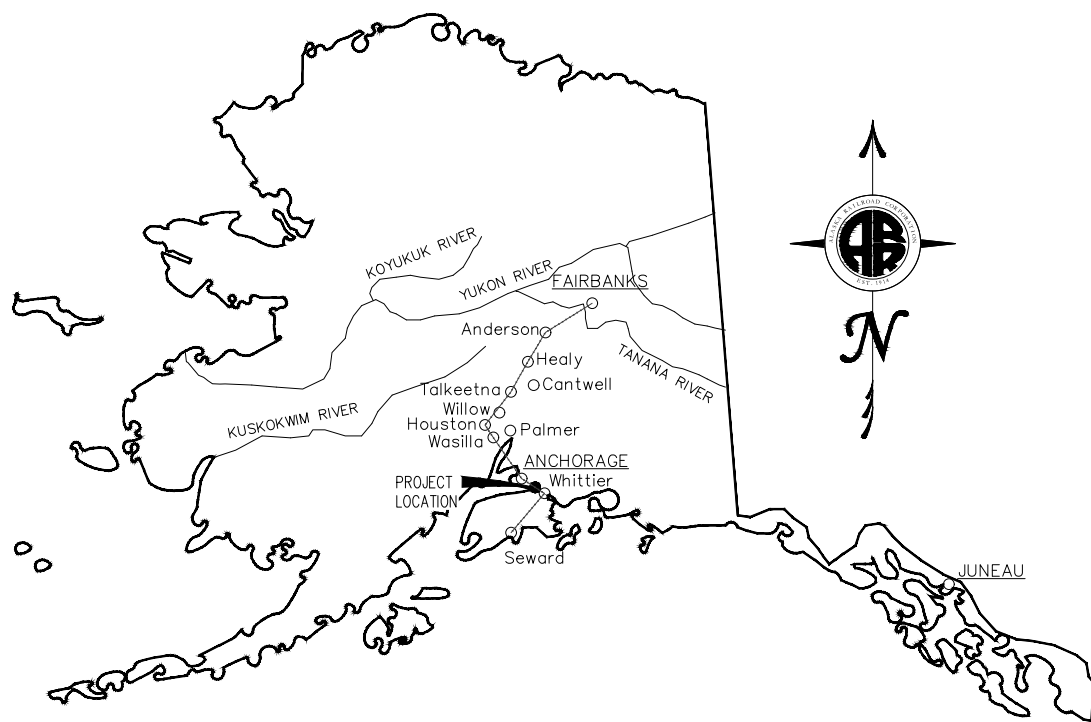
ALASKA RAILROAD CORPORATION

CAPITAL PROJECTS

P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

BRIDGE 64.7 REHABILITATION FOR ADVERTISEMENT

DECEMBER 2023



VICINITY MAP
NTS

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DESIGNED BY:	RJB
CHECKED BY:	ARRC
DRAFTED BY:	RJB

ALASKA RAILROAD CORPORATION
 PO BOX 107500, ANCHORAGE, AK
 99510-7500
 327 W SHIP CREEK AVE
 ANCHORAGE, AK 99501
 (907) 265-2300

KEY MAP

A/E FIRM

ENGINEERING DEPARTMENT
 P.O. BOX 107500
 ANCHORAGE, ALASKA 99510-7500



PROJECT: BRIDGE 64.7 REHABILITATION

SHEET TITLE: COVER

AFE NO. 12263

YEAR 2023

SHEET 1 OF 11

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QUANTITY NOTES:

- QUANTITIES SHOWN ARE FOR PLANNING PURPOSES ONLY.
- QUANTITIES SHOWN DO NOT INCLUDE OVERAGES OR CONTINGENCY UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY ALL QUANTITIES AND DIMENSIONS BEFORE ORDERING.

BILL OF MATERIAL

DESCRIPTION	MARK	TYPE	SIZE	LENGTH	UNIT WEIGHT (LBS)	QUANTITY	EST. TOTAL WEIGHT (LBS)	MATERIAL GRADE	FINISH	REMARKS
BOLTS		HS	1"Ø	0'-4"		6048		ASTM F3125 GR. A325, TYPE 3 BOLTS, A563-3 NUTS, F436-3 WASHERS	TYPE 3 WEATHERING	W/ NUT AND 2 WASHERS
DIAGONAL PLATE	D1	PL	1/2" x 4"	6'-11"	47	504	23700	A709, GRADE 50W	WEATHERING, SSPC-SP6	
PIER NOSE PROTECTOR	NP1	L	L6x6x1/2	6'-0"	125	24	3000	A709, GRADE 50W	WEATHERING, SSPC-SP6	
BOLTS		HS	1-1/4"Ø	0'-4"		26		ASTM F3125 GR. A325, TYPE 3 BOLTS, A563-3 NUTS, F436-3 WASHERS	TYPE 3 WEATHERING	W/ NUT AND 2 WASHERS
ANCHOR BOLT		HS	1-1/4"Ø	1'-6"		52		ASTM F1554, GRADE 55, HDG, A563 HDG GRADE A NUTS, F436 HDG TYPE 1 WASHER	HOT DIP GALVANIZED	W/ 2 NUTS AND WASHERS
BEARING KEEPER	B1	PL			91	24	2180	A709, GRADE 50W	WEATHERING, SSPC-SP6	
BEARING KEEPER	B2	PL				2		A709, GRADE 50W	WEATHERING, SSPC-SP6	
BEARING KEEPER	B3	PL				2		A709, GRADE 50W	WEATHERING, SSPC-SP6	
BEARING KEEPER	B4	PL				2		A709, GRADE 50W	WEATHERING, SSPC-SP6	
KEEPER ANGLE	B5	PL				2		A709, GRADE 50W	WEATHERING, SSPC-SP6	
CONCRETE			CONCRETE			50	CY	CLASS P		MIN. COMPRESSIVE STRENGTH f'c=6,000PSI MIN.
GROUT PAD						2	CY	5,000PSI		NON-SHRINK HIGH EARLY STRENGTH
REBAR			#4 BAR			5465	LF	A706 GRADE 60, EPOXY COATED	EPOXY COATED	
REBAR			#4 BAR			2360	LF	A767, CLASS 1, GALVANIZED	GALVANIZED	

DESIGNED BY: RJB
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KEY MAP

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ENGINEERING DEPARTMENT
 P.O. BOX 107500
 ANCHORAGE, ALASKA 99510-7500

ALASKA RAILROAD

PROJECT: BRIDGE 64.7 REHABILITATION

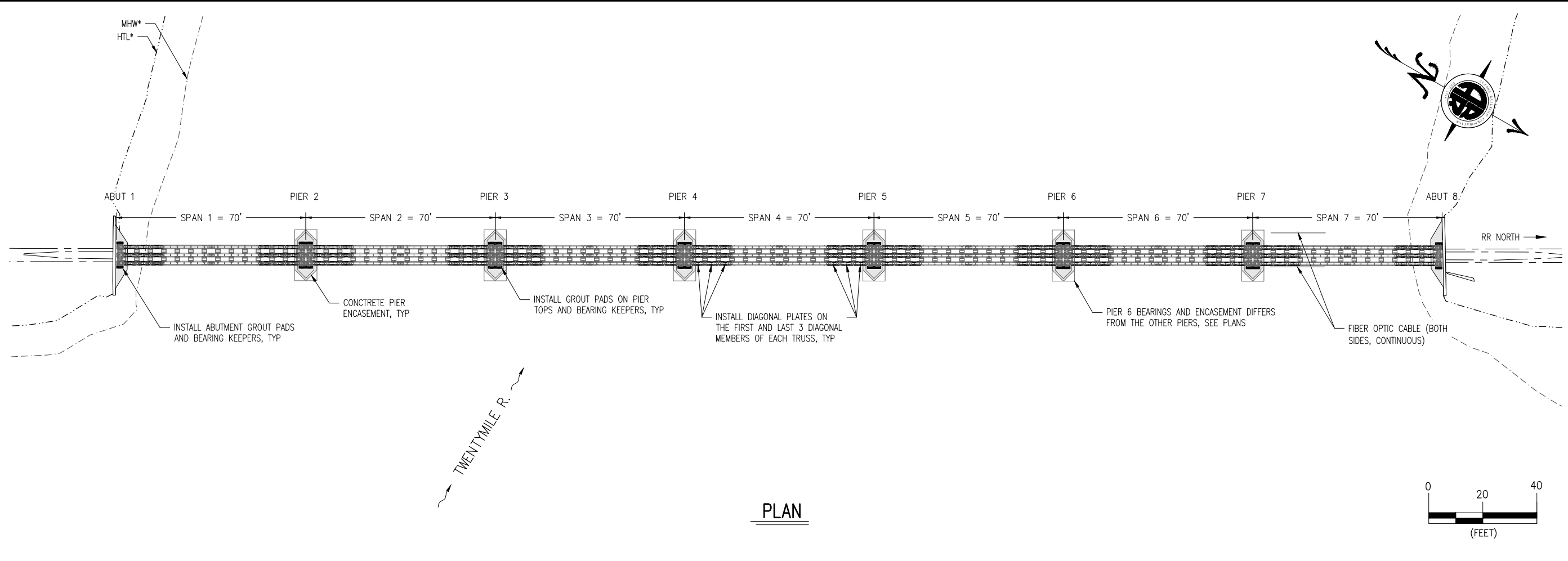
NOTES

AFE NO. 12263

YEAR 2023

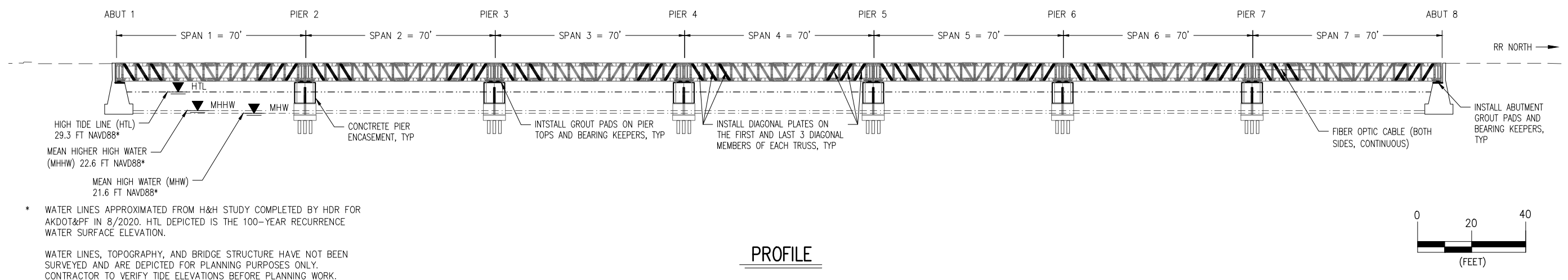
SHEET 2 OF 11

DRAWING LOCATION: P:\ENGINEERING\BRIDGES\BR_064_7_TWENTYMILE_RIVER\STRENGTHENING_PROJECT_2022\DRAWINGS\SHEETS\64P7_STRENGTHENING_PLANS.DWG
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SCOPE OF WORK:

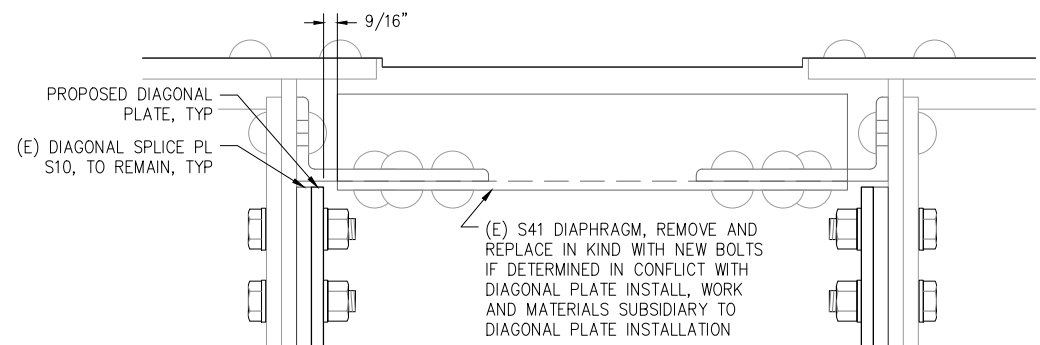
1. SPAN 1 – SPAN 7
 - 1.1. INSTALL BOLTED DIAGONAL PLATES TO REINFORCE EXISTING DIAGONAL MEMBERS ON THE FIRST AND LAST 3 DIAGONAL MEMBERS OF EACH TRUSS.
2. ABUTMENTS
 - 2.1. POUR CONCRETE ON SEATS, INSTALL GROUT PADS AND BEARING KEEPERS.
3. PIERS
 - 3.1. ENCASE UPPER SECTION OF PIERS AND SEATS IN CONCRETE.
 - 3.2. INSTALL GROUT PADS AND BEARING KEEPERS.
4. OTHER
 - 4.1. ALL OTHER WORK REQUIRED PER THESE PLANS AND THE CONTRACT DOCUMENTS.



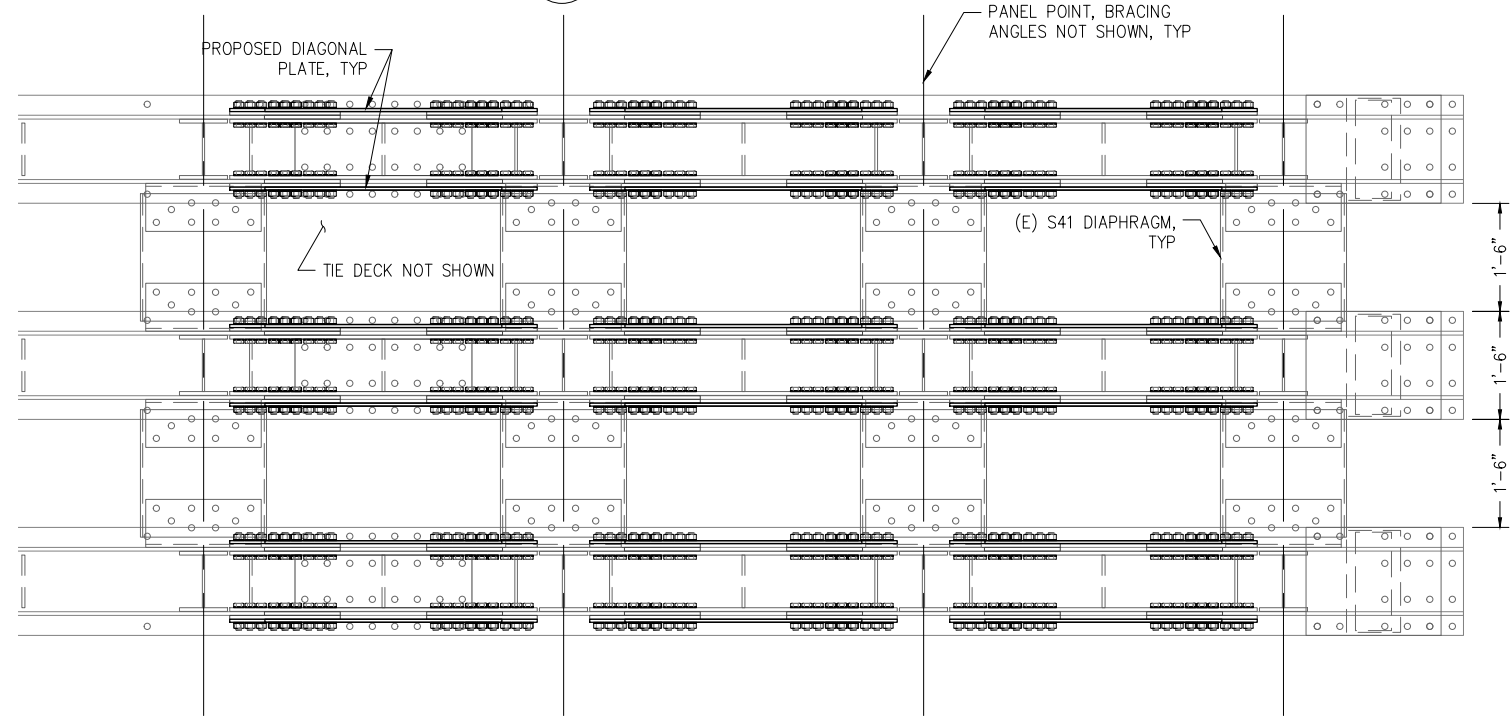
* WATER LINES APPROXIMATED FROM H&H STUDY COMPLETED BY HDR FOR AKDOT&PF IN 8/2020. HTL DEPICTED IS THE 100-YEAR RECURRENCE WATER SURFACE ELEVATION.
 WATER LINES, TOPOGRAPHY, AND BRIDGE STRUCTURE HAVE NOT BEEN SURVEYED AND ARE DEPICTED FOR PLANNING PURPOSES ONLY. CONTRACTOR TO VERIFY TIDE ELEVATIONS BEFORE PLANNING WORK.

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DRAFTED BY:	RJB
ALASKA RAILROAD CORPORATION PO BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
PLAN	
PROFILE	
PROFILE	
A/E FIRM	
ENGINEERING DEPARTMENT P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	
PROJECT: BRIDGE 64.7 REHABILITATION	
SHEET TITLE: PLAN AND PROFILE	
AFE NO.	12263
YEAR	2023
SHEET	3 OF 11

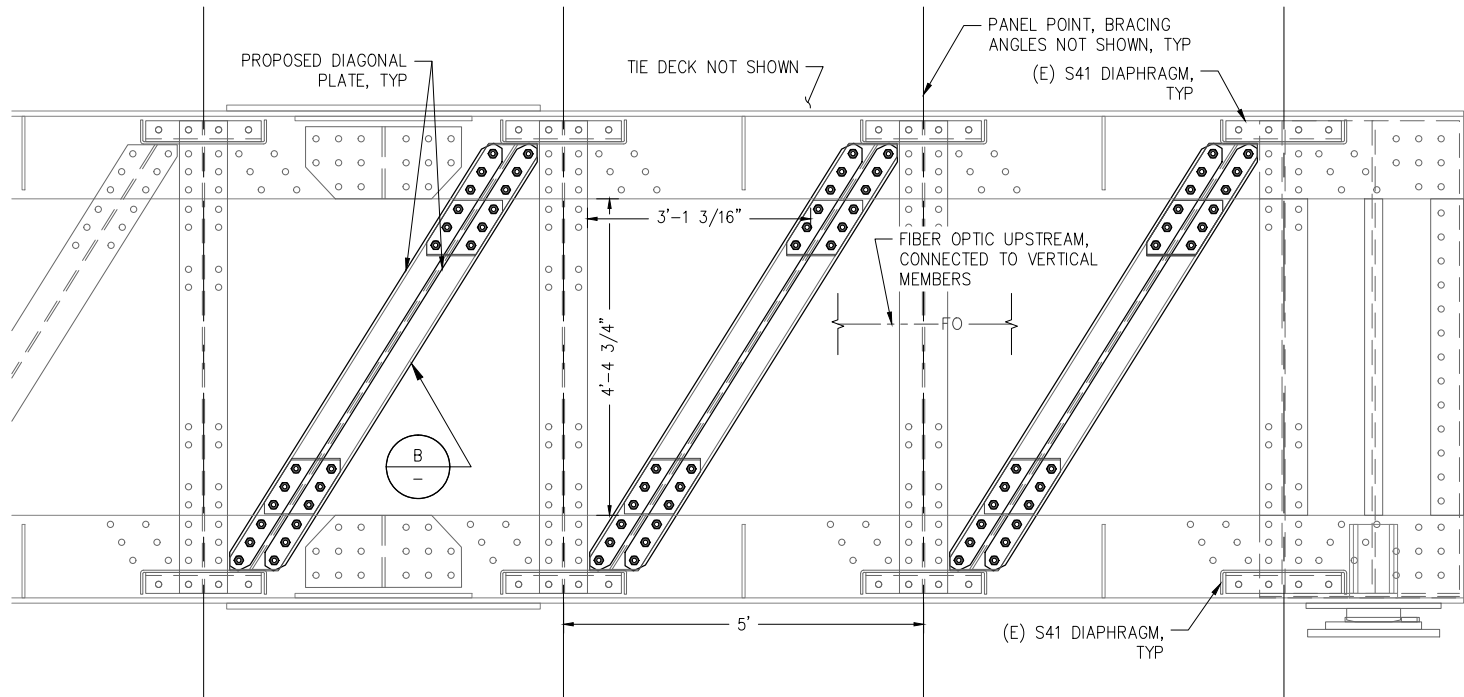
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A S41 DIAPHRAGM DETAIL
SCALE: 3" = 2'-0"



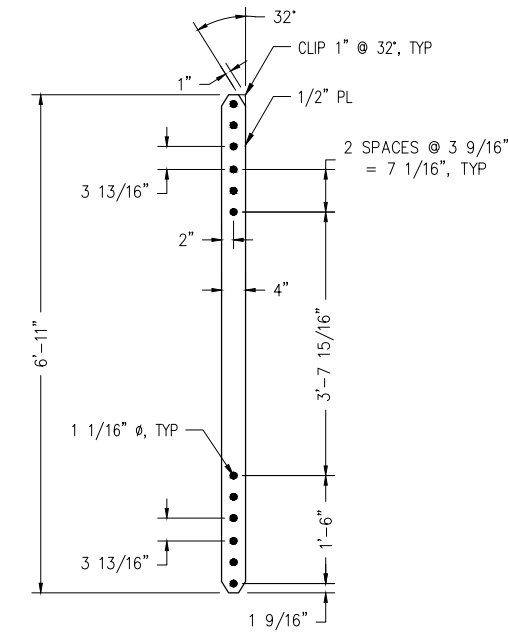
DECK TRUSS PLAN
SCALE: 3/4" = 2'-0"



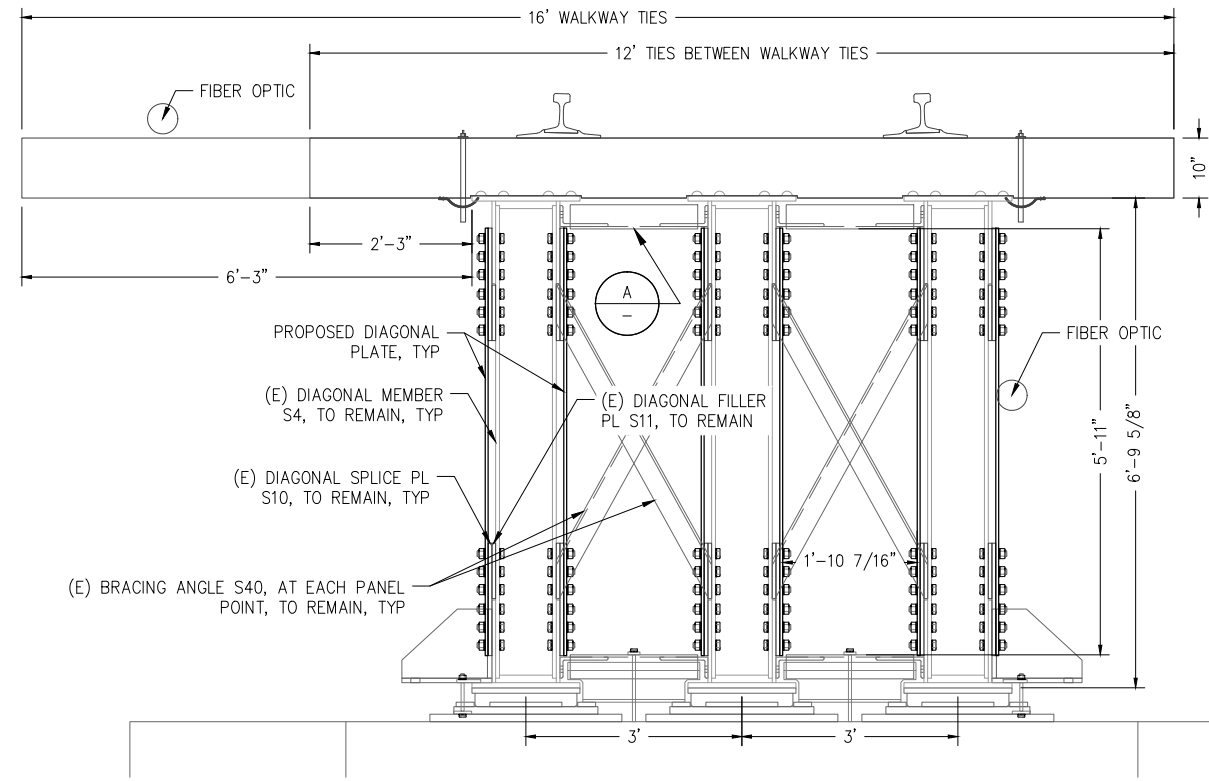
DECK TRUSS ELEVATION
SCALE: 3/4" = 2'-0"

DIAGONAL REINFORCEMENT NOTES:

1. CONTRACTOR TO VERIFY DIMENSIONS WITH AS-BUILT PLANS AND FIELD CONDITIONS BEFORE ORDERING.
2. INSTALL DIAGONAL PLATES ON BOTH SIDES OF THE FIRST AND LAST 3 DIAGONAL MEMBERS OF EACH TRUSS OF EACH SPAN.
3. INSTALL 2 DIAGONAL PLATES ON EACH SIDE OF THE DIAGONAL MEMBERS SHOWN IN THE PLANS. ON EACH SIDE OF THE DIAGONAL MEMBER ONLY REMOVE ONE ROW OF RIVETS (12 RIVETS) AS NEEDED TO INSTALL 1 DIAGONAL PLATE AT A TIME. DO NOT REMOVE RIVETS IN THE SECOND ROW UNTIL THE FIRST DIAGONAL PLATE IS INSTALLED AND BOLTS ARE TENSIONED.
4. ANY RIVETS REMOVED FROM DIAGONAL MUST BE REPLACED WITH NEW HIGH STRENGTH BOLTS AND FULLY TENSIONED PRIOR TO TRAIN TRAFFIC.
5. ANY FASTENERS REMOVED AFTER BEING TENSIONED MUST BE REPLACED WITH NEW.
6. TEMPORARY FASTENERS ARE PERMITTED AND MAY BE RE-USED IF IN GOOD CONDITION AND APPROVED BY THE ENGINEER.
7. ANY ANCILLARY FASTENERS REMOVED TO INSTALL THE DIAGONAL PLATES MUST BE REPLACED WITH NEW.
8. REMOVE RUST AND PAINT FROM FAYING SURFACES. FAYING SURFACES MUST MEET CLASS A SURFACE REQUIREMENTS DEFINED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

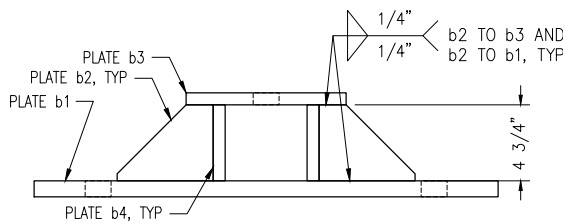
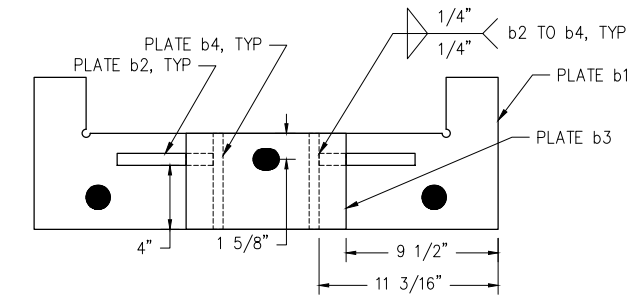
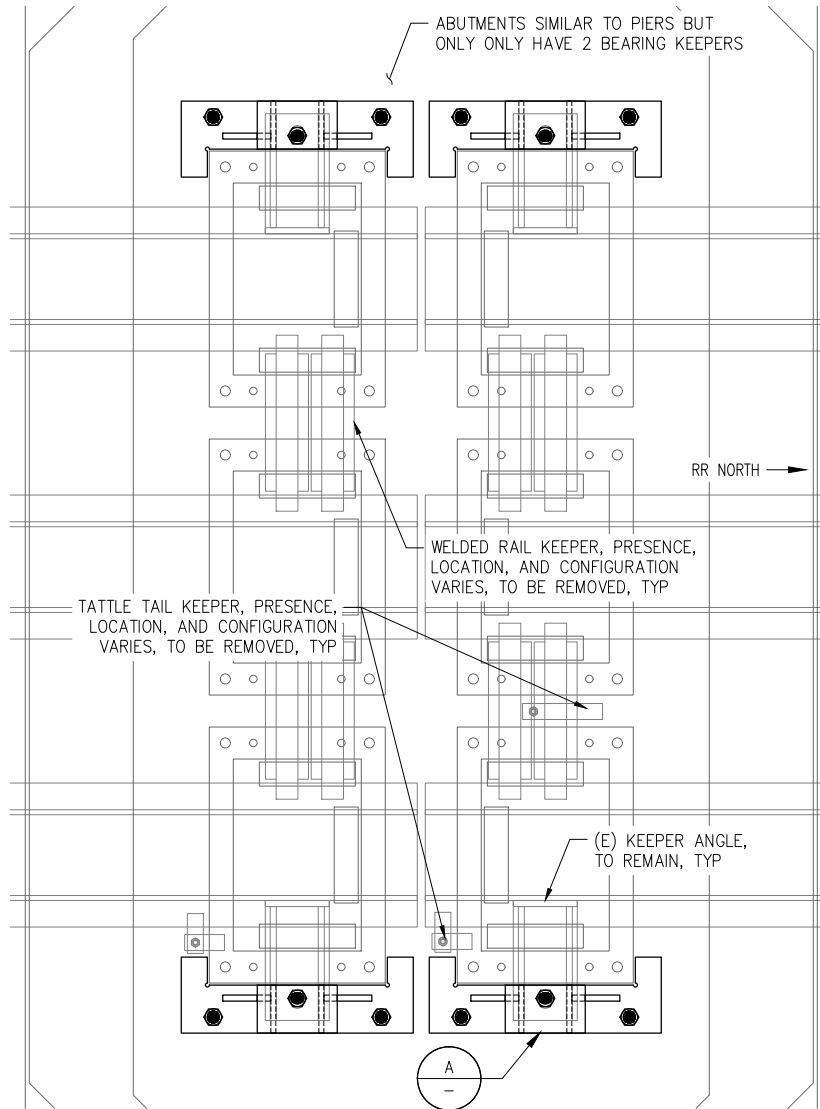


B DIAGONAL PLATE - D1
SCALE: 3/8" = 1'-0"

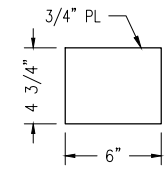
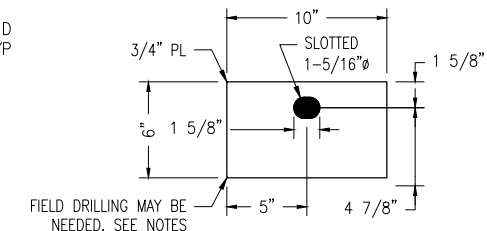
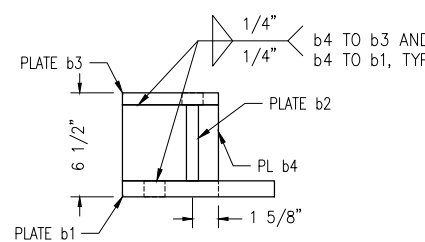
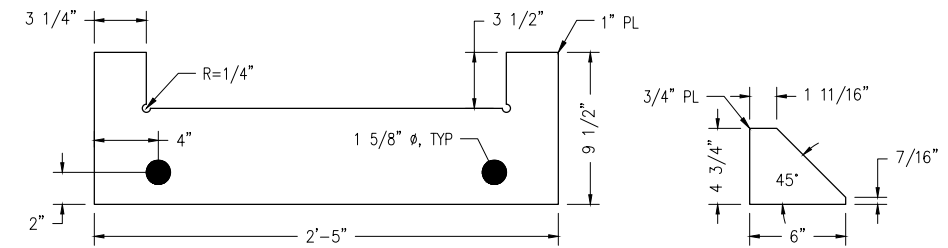
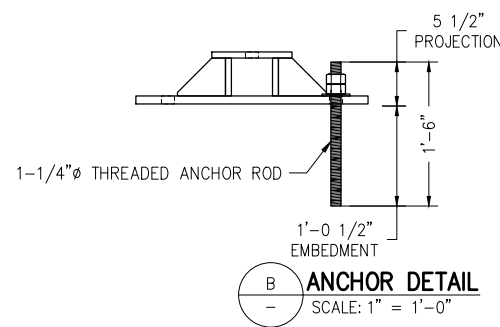


DECK TRUSS SECTION
SCALE: 3/4" = 2'-0"

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DRAFTED BY:	RJB
ALASKA RAILROAD CORPORATION PO BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
A/E FIRM	
ENGINEERING DEPARTMENT P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	PROJECT: BRIDGE 64.7 REHABILITATION
ALASKA RAILROAD	SHEET TITLE: DIAGONAL DETAILS
AFE NO.	12263
YEAR	2023
SHEET	4 OF 11



A BEARING KEEPER - B1
SCALE: 1" = 1'-0"



TYPICAL BEARING KEEPER NOTES:

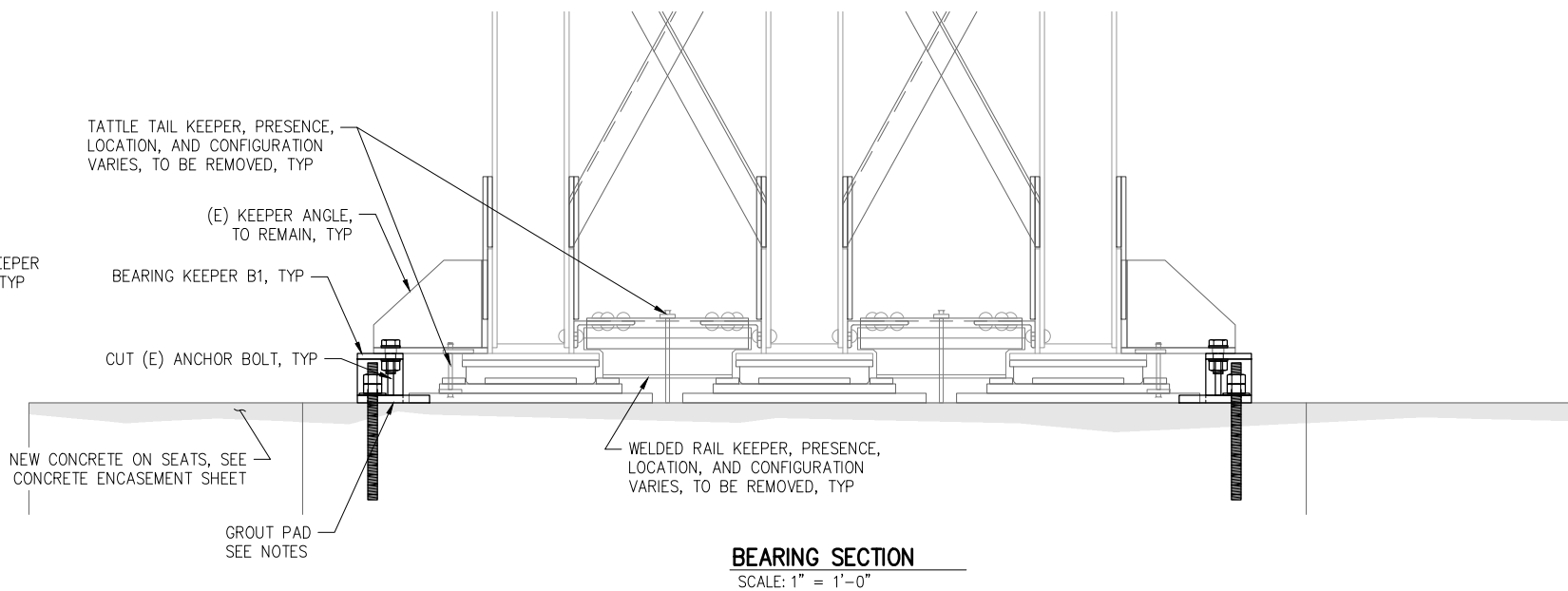
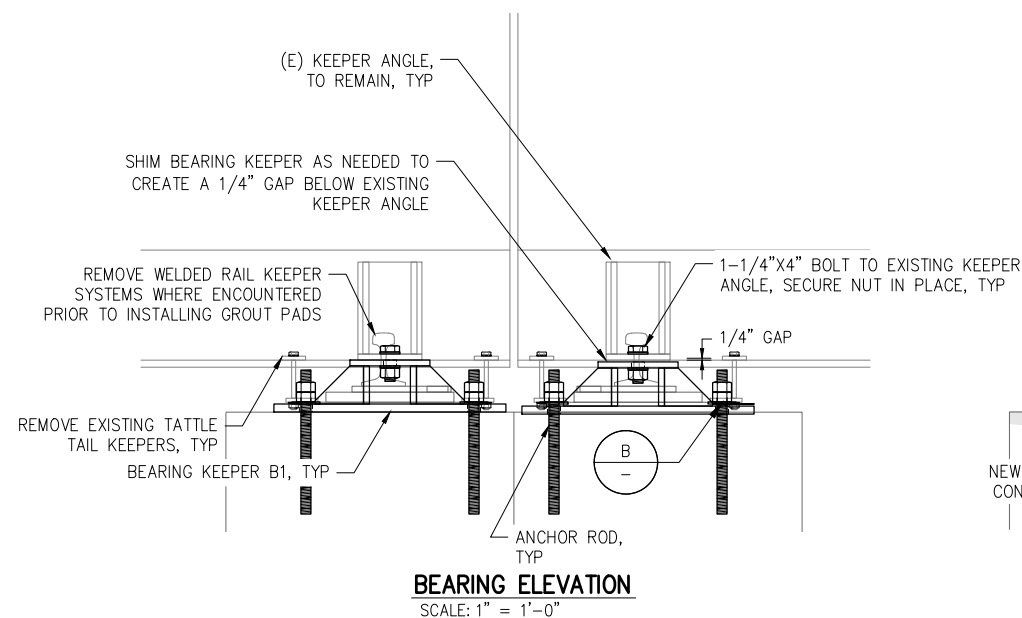
1. FIELD CONDITIONS VARY AT EACH BEARING LOCATION. CONTRACTOR TO FIELD VERIFY CORRECT FITMENT OF BEARING KEEPERS AT EACH LOCATION BEFORE ORDERING.
2. FIELD DRILLING OF HOLES MAY BE REQUIRED AND SHOULD BE ANTICIPATED ON AN AS NEEDED BASIS.

TYPICAL ANCHOR NOTES:

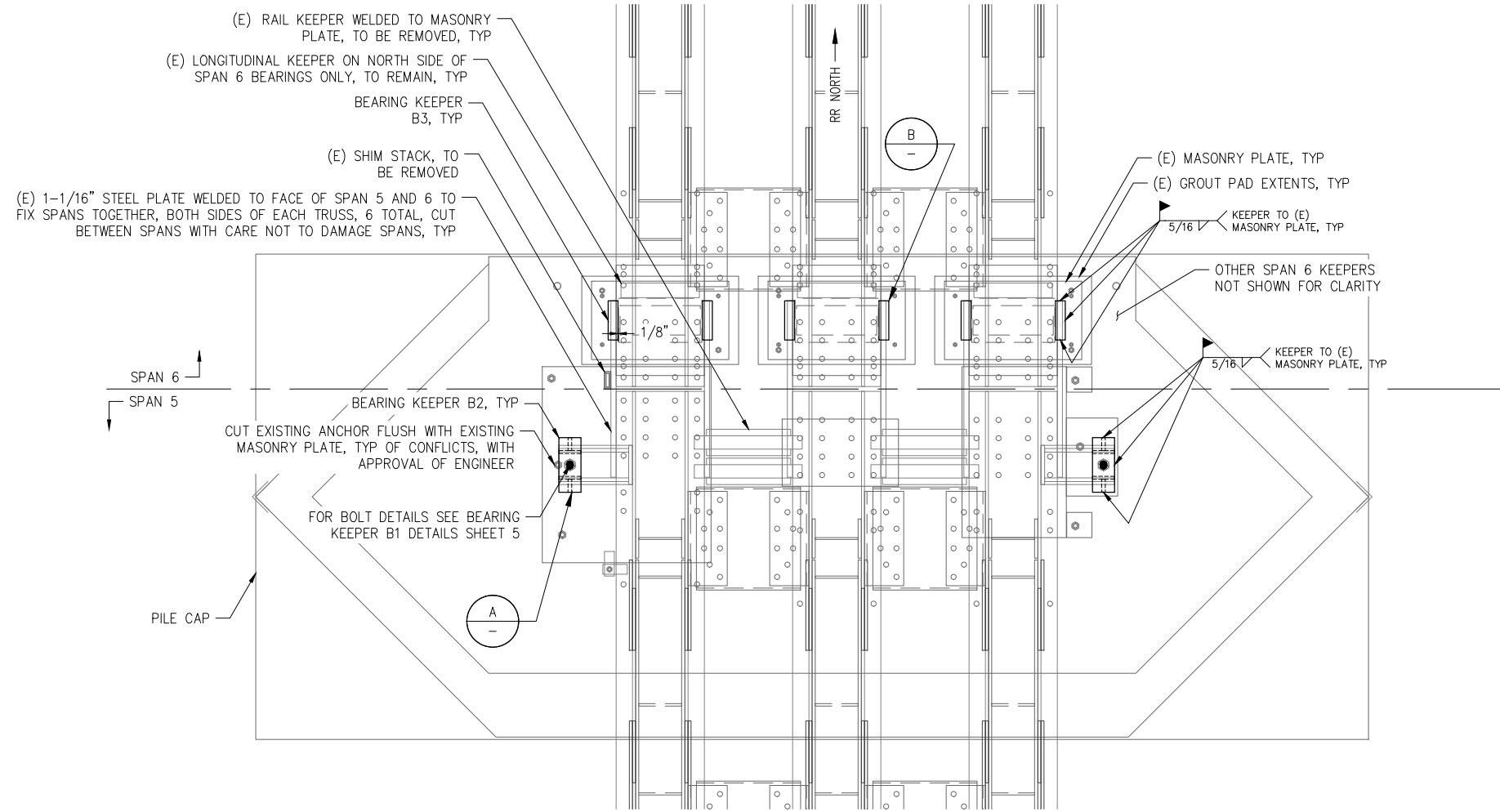
1. DRILL AND EPOXY GROUT ANCHOR RODS USING OWNER APPROVED, HIGH EARLY STRENGTH NON-SHRINK EPOXY GROUT (5,000 PSI MIN. 28 DAY COMPRESSIVE STRENGTH) OR APPROVED EQUAL EPOXY SYSTEM.
2. CORE HOLES 2-1/2" HOLE (1/2" MIN. ANNULUS) OR AS RECOMMENDED BY THE GROUT MANUFACTURER.
3. IMMEDIATELY BEFORE PLACING ANCHOR RODS, HOLES MUST BE CLEANED AND DRY OR AS RECOMMENDED BY GROUT MANUFACTURER.
4. PLACE EPOXY GROUT INTO HOLES AND INSERT THE ANCHOR RODS. IMMOBILIZE THE ANCHOR RODS UNTIL EPOXY GROUT REACHES STRENGTH.

TYPICAL GROUT PAD NOTES:

1. WHERE REQUIRED POUR GROUT PAD BELOW BEARING KEEPERS ACHIEVE CORRECT ELEVATION BELOW (E) KEEPER ANGLES PROPER BEARING SURFACE DO NOT POUR ABOVE BASE OF MASONRY PLATES
2. CONSTRUCT GROUT PADS USING NON-SHRINK HIGH EARLY STRENGTH STRUCTURAL GROUT.
3. REQUIRED STRENGTH OF 2,500 PSI MINIMUM PRIOR TO LOADING AND 5,000 PSI MINIMUM AT FULL CURE.
4. INSTALLATION SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS, INCLUDED EXTENDING PEA GRAVEL OR SIMILAR AGGREGATE FOR THICKER PADS.
5. PROVIDE FULL EVEN BEARING BELOW BEARING KEEPERS.

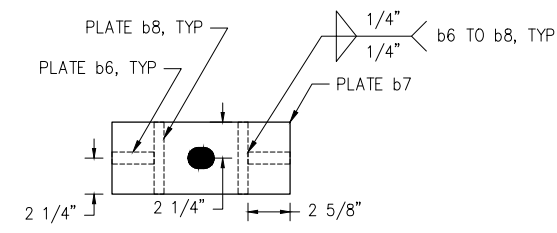


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 DATE 12/6/2023 1:32 PM
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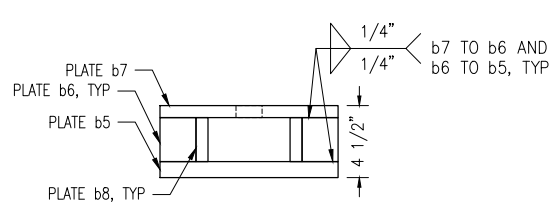


PIER 6 BEARINGS PLAN (1 OF 2)
SCALE: 3/8" = 1'-0"

NOTES:
1. SEE TYPICAL BEARING KEEPER, ANCHOR, AND GROUT PAD NOTES, SHEET 5.

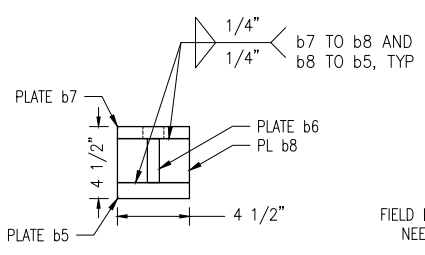


PLAN



ELEVATION

A BEARING KEEPER - B2
SCALE: 1" = 1'-0"



SECTION

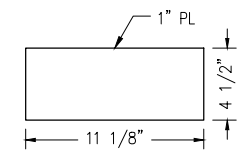


PLATE b5

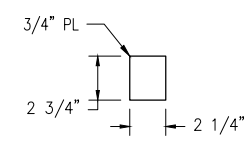


PLATE b6

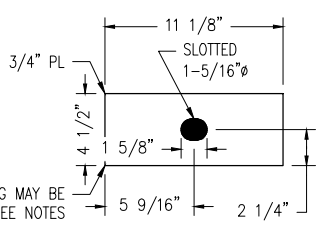


PLATE b7

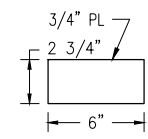
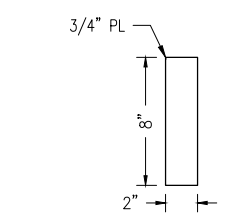


PLATE b8



B BEARING KEEPER - B3
SCALE: 1" = 1'-0"

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ALASKA RAILROAD CORPORATION PO BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
A/E FIRM	
ENGINEERING DEPARTMENT P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	PROJECT: BRIDGE 64.7 REHABILITATION
SHEET TITLE: PIER 6 BEARING DETAILS 1 OF 3	
A/E NO.	12263
YEAR	2023
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 DATE: 12/6/2023 1:33 PM
 SCALE: AS NOTED
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NOTES:

1. SEE TYPICAL BEARING KEEPER, ANCHOR, AND GROUT PAD NOTES, SHEET 5.

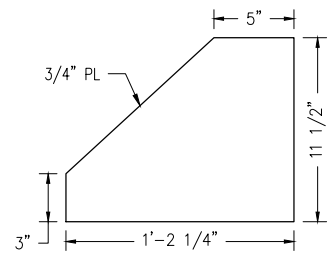


PLATE b9

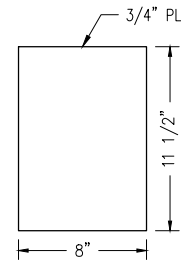


PLATE b10

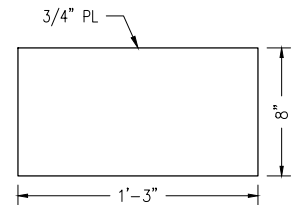
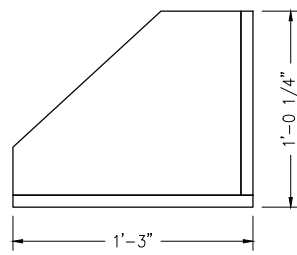
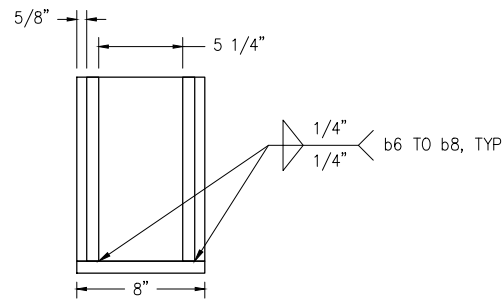


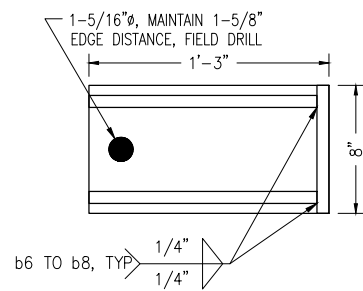
PLATE b3



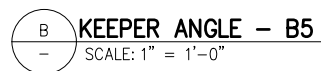
ELEVATION



SECTION

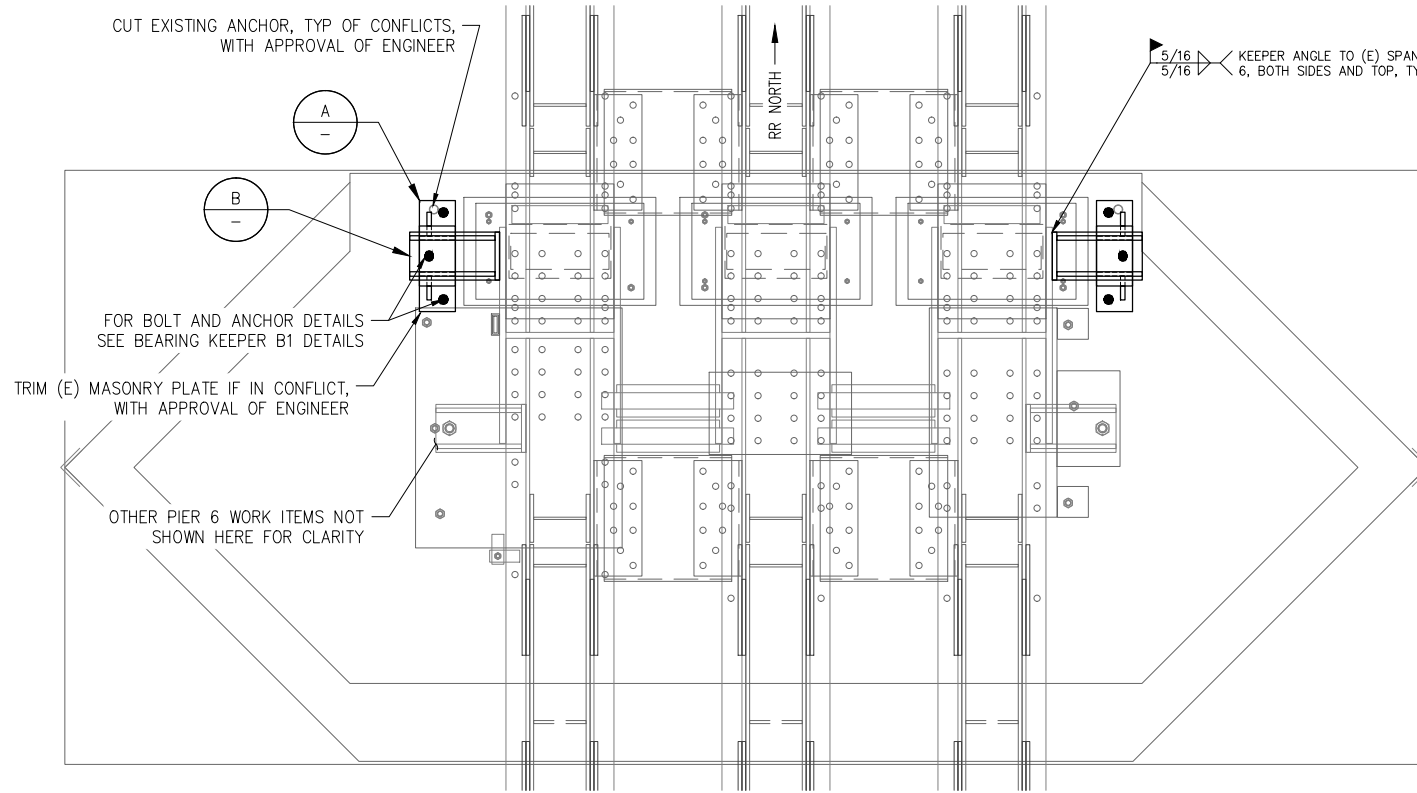


PLAN



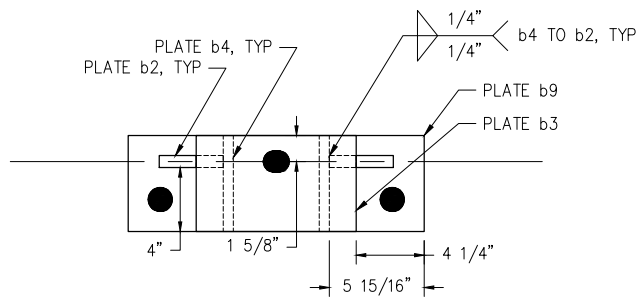
KEEPER ANGLE - B5

SCALE: 1" = 1'-0"

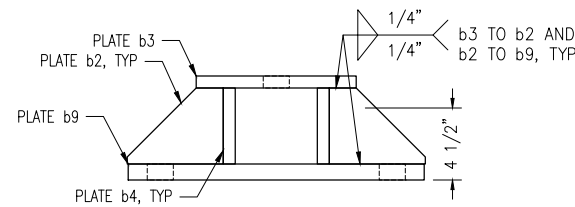


PIER 6 BEARINGS PLAN 2 OF 2

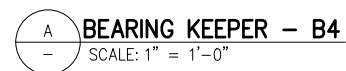
SCALE: 3/8" = 1'-0"



PLAN



ELEVATION



BEARING KEEPER - B4

SCALE: 1" = 1'-0"

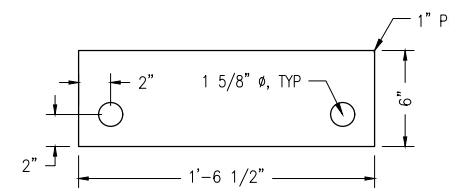
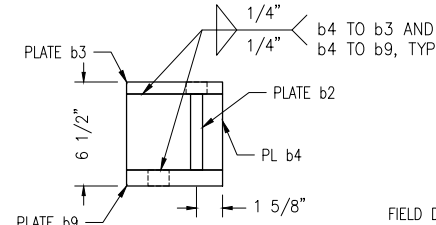


PLATE b9



SECTION

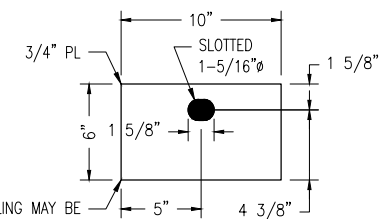
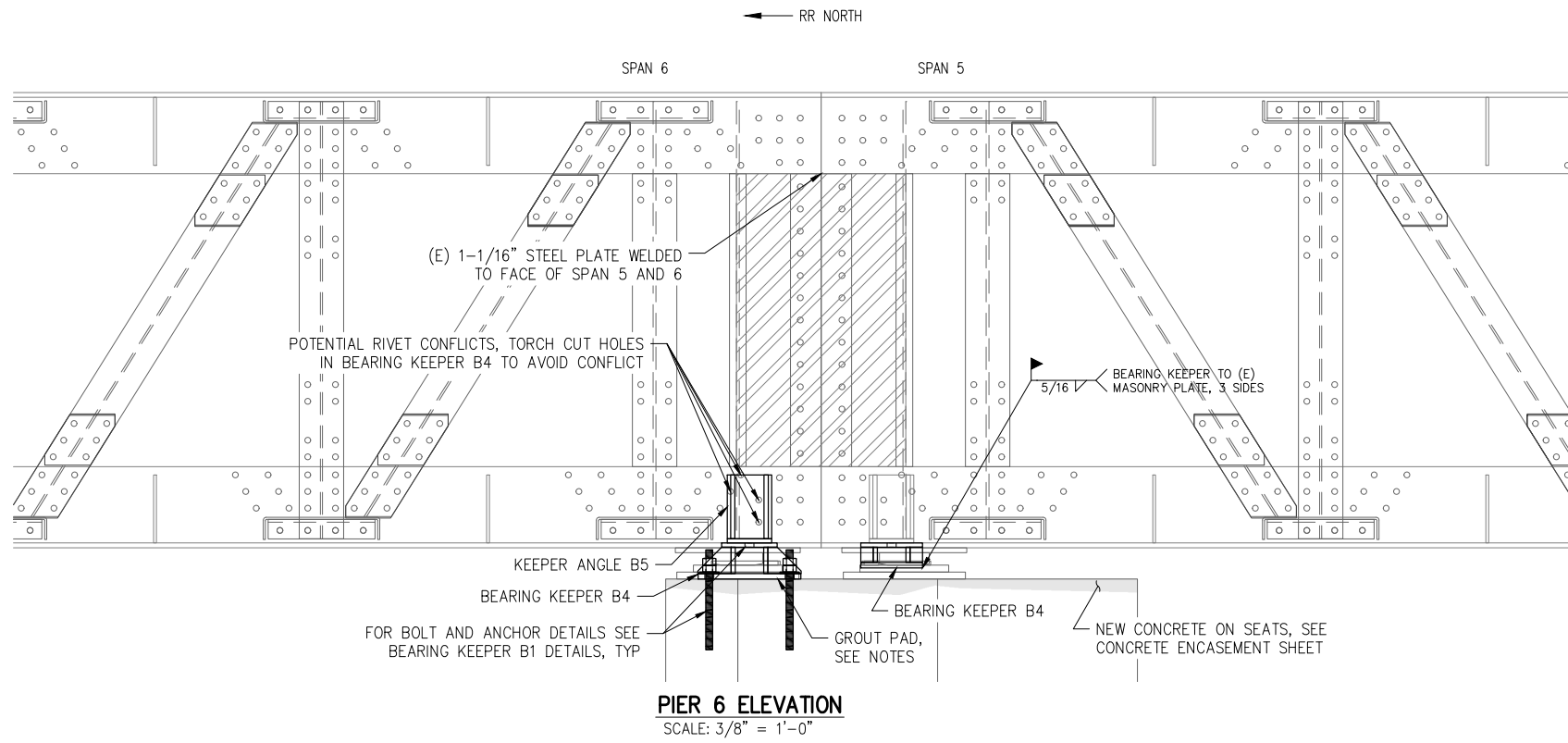


PLATE b3

FIELD DRILLING MAY BE NEEDED, SEE NOTES

3/

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ALASKA RAILROAD CORPORATION PO BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
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ENGINEERING DEPARTMENT P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	PROJECT: BRIDGE 64.7 REHABILITATION
SHEET TITLE: PIER 6 BEARING DETAILS 2 OF 3	
AFE NO.	12263
YEAR	2023
SHEET	7 OF 11



NOTES:

1. SEE TYPICAL BEARING KEEPER, ANCHOR, AND GROUT PAD NOTES, SHEET 5.

DESIGNED BY:	RJB
CHECKED BY:	ARRC
DRAFTED BY:	RJB

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 PO BOX 107500, ANCHORAGE, AK
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 327 W SHIP CREEK AVE
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KEY MAP

A/E FIRM

ENGINEERING DEPARTMENT
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 ANCHORAGE, ALASKA 99510-7500

ALASKA
 RAILROAD

PROJECT: BRIDGE 64.7 REHABILITATION

SHEET TITLE: PIER 6 BEARING DETAILS 3 OF 3

AFE NO. 12263

YEAR 2023

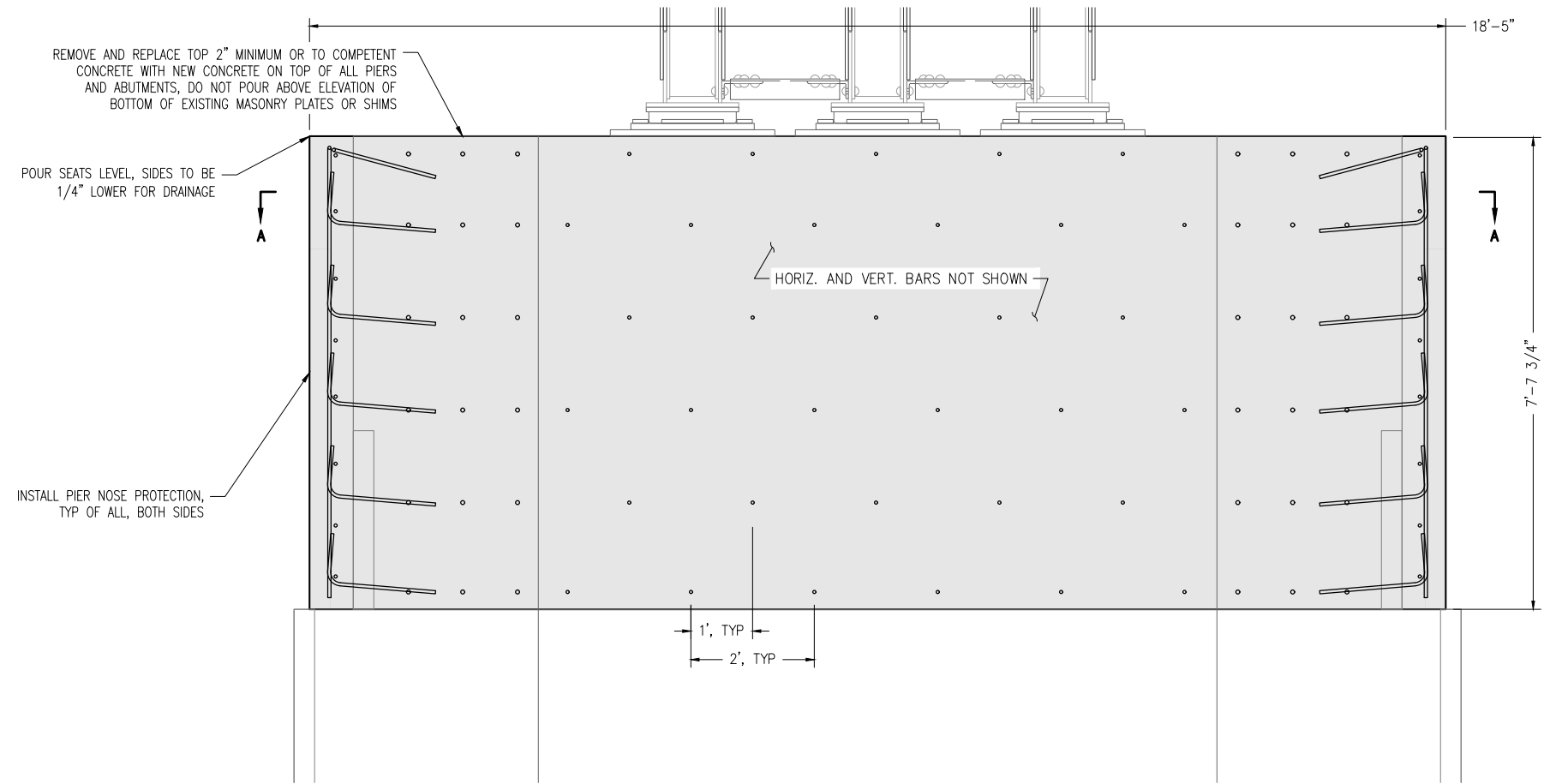
SHEET 8 OF 11

PIER ENCASEMENT NOTES:

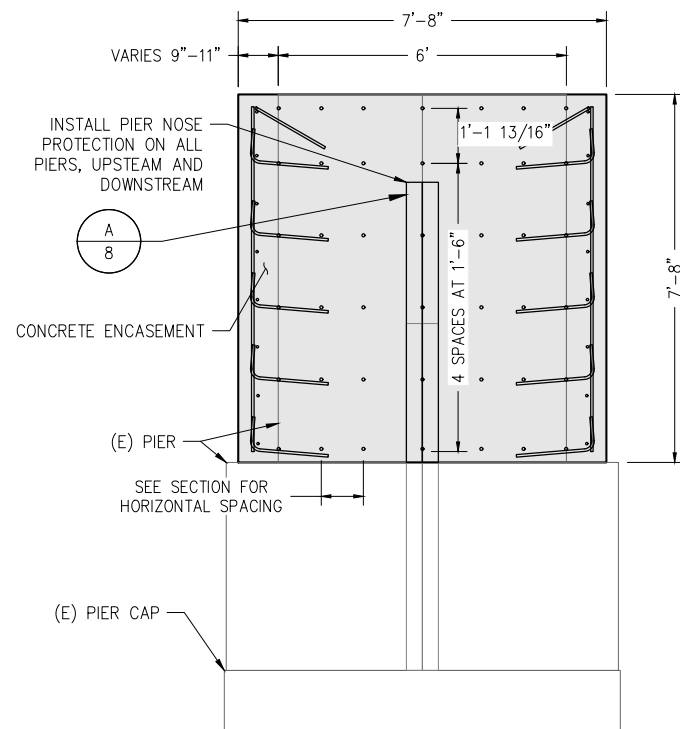
1. CENTER HOOK TIE HOLES BETWEEN EMBEDDED RAIL WHERE POSSIBLE
2. DRILL 5/8" HOLES FOR #4 TIES HOOKS
3. 12" MINIMUM EMBEDMENT FOR #4 TIE HOOKS
4. 3'-3" MINIMUM LAP SPLICE OVERLAP
5. MIN. 2-1/2" REBAR COVER ON ALL SIDES
6. HORIZONTAL AND VERTICAL BARS SPACED AT 12" O.C.
7. ALL HOOK TIES TO BE INSTALLED WITH REDHEAD C6+ OR APPROVED EQUAL.
8. CONTRACTOR TO SUBMIT FORMWORK PLAN FOR OWNER APPROVAL PRIOR TO MOBILIZATION.
9. FINISHED TOP EDGES TO BE 1" CHAMFER AT 45°.

SURFACE PREPARATION NOTES:

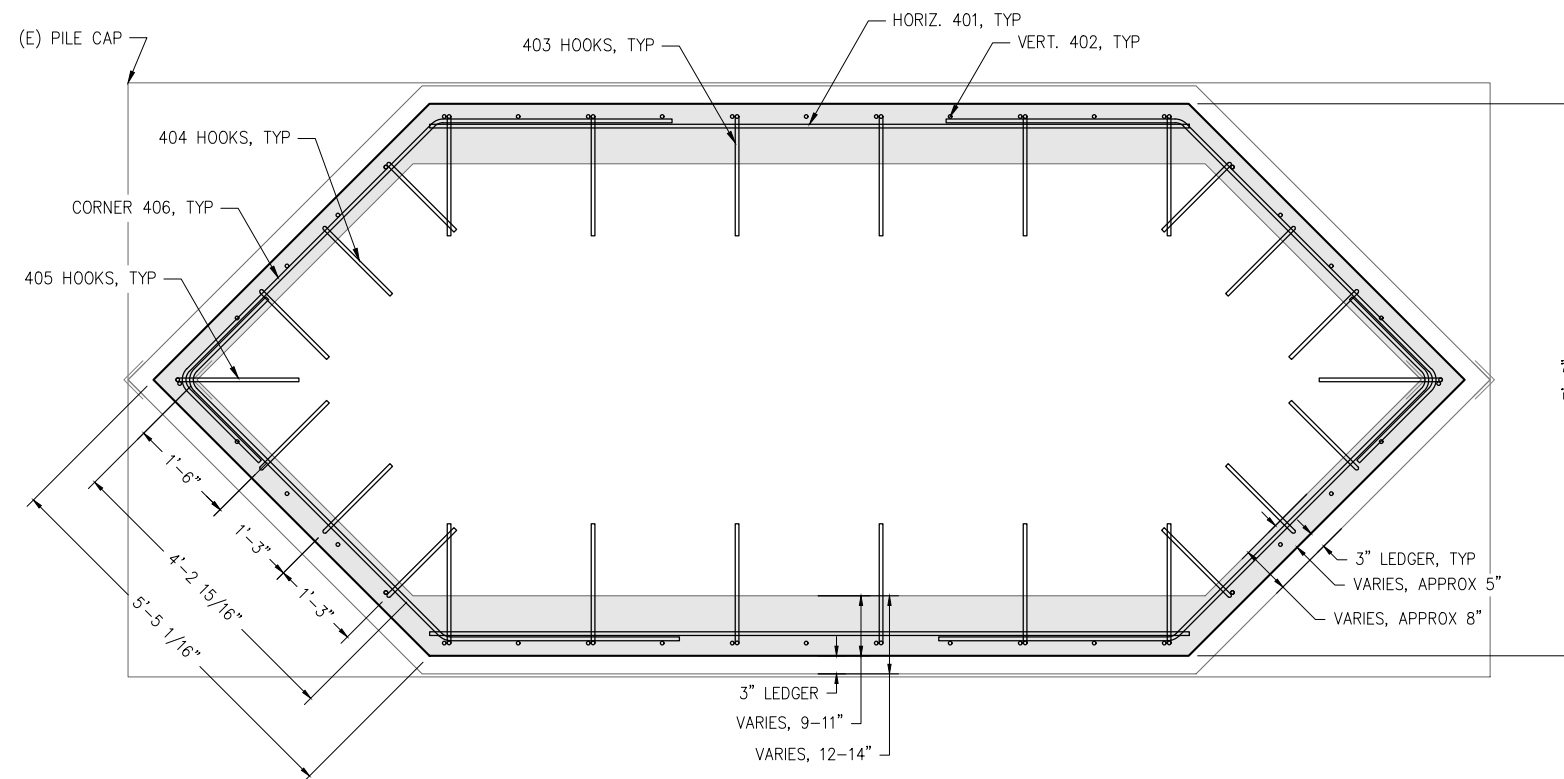
4. CHIP ALL SURFACES WITHIN ENCASEMENT LIMITS TO CREATE A ROUGH SURFACE.
7. IF EXISTING REBAR IS EXPOSED, CHIP A MINIMUM OF 3/4" BEYOND REBAR.
8. CHIP TOP OF PIERS DOWN 2" BUT DO NOT UNDERMINE BEARINGS.
9. DO NOT FEATHER CONCRETE AT EDGES. SQUARE CUT OR SLIGHTLY UNDERCUT A MIN. OF 1".
10. SATURATE SURFACE OF EXISTING CONCRETE WITH WATER FOR 1 HOUR PRIOR TO PLACING BONDING AGENT, AND PER MANUFACTURER RECOMMENDATIONS.
11. APPLY BONDING AGENT PRIOR TO PLACING NEW CONCRETE, AND PER MANUFACTURER RECOMMENDATIONS.
12. DO NOT POUR ENCASEMENT ABOVE BOTTOM OF EXISTING BEARINGS.
13. MAINTAIN EXISTING AND NEW CONCRETE AND GROUT AT TEMPERATURES BETWEEN 50F AND 90F UNTIL CURED AND PER MANUFACTURER RECOMMENDATIONS.



TYPICAL PIER ENCASEMENT SECTION
SCALE: 3/8" = 1'-0"



TYPICAL PIER ENCASEMENT ELEVATION
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 3/8" = 1'-0"

DESIGNED BY:	RJB
CHECKED BY:	ARRC
DRAFTED BY:	RJB

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KEY MAP

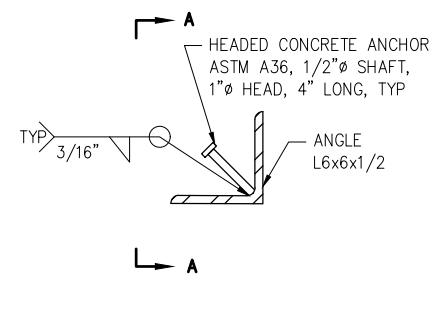
A/E FIRM

ENGINEERING DEPARTMENT
 P.O. BOX 107500
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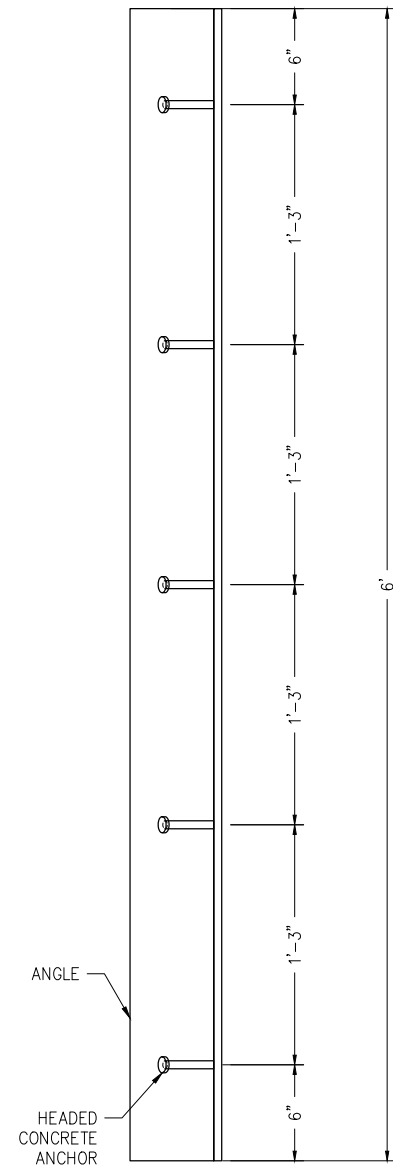
ALASKA RAILROAD

PROJECT: BRIDGE 64.7 REHABILITATION
 SHEET TITLE: TYPICAL PIER ENCASEMENT

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PLAN



SECTION A-A

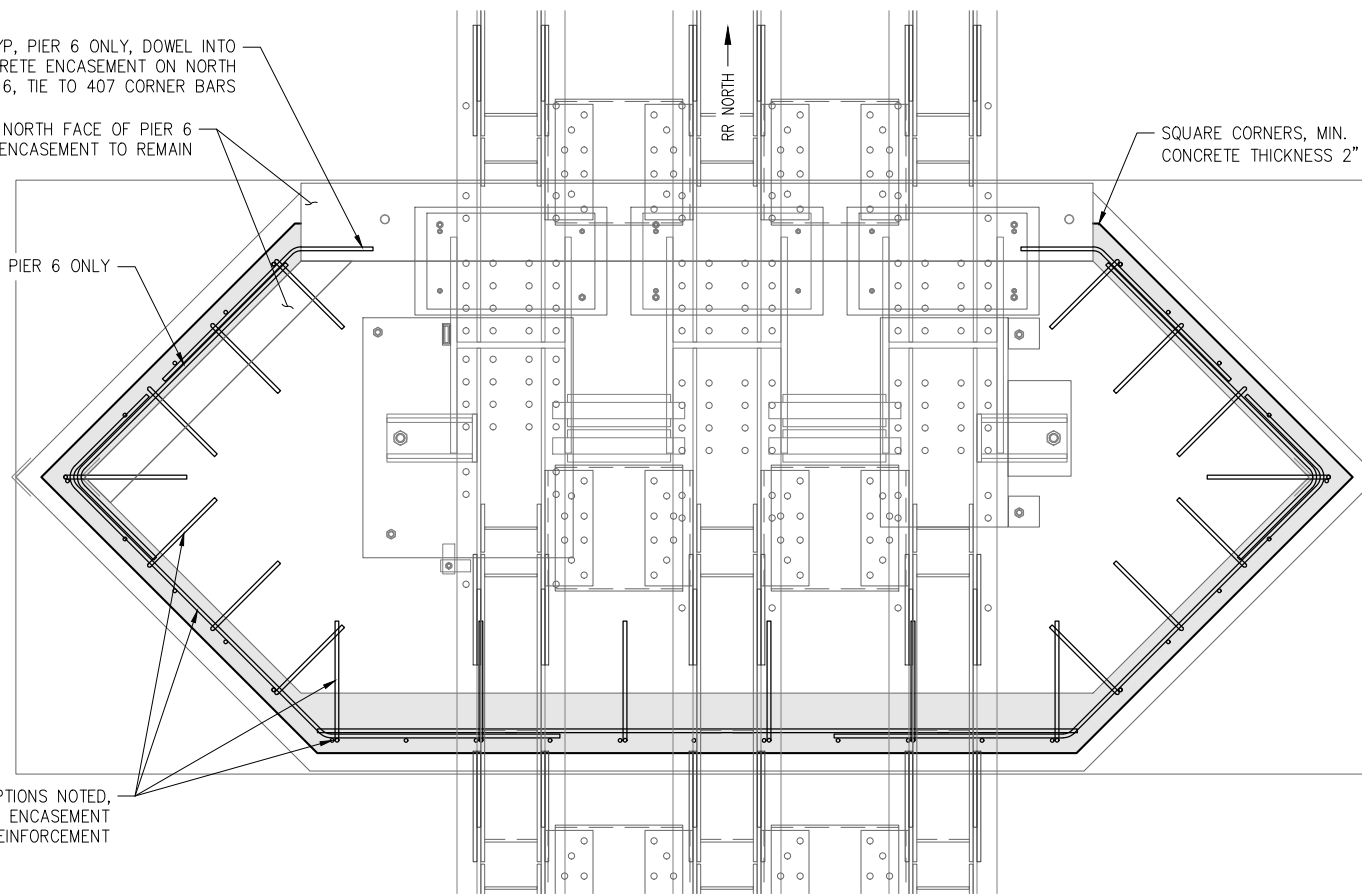
PIER NOSE PROTECTION - NP1
 SCALE: 1" = 1'-0"

408 HOOKS, TYP, PIER 6 ONLY, DOWEL INTO EXISTING CONCRETE ENCASEMENT ON NORTH FACE OF PIER 6, TIE TO 407 CORNER BARS

EXCEPTION TO TYPICAL: NORTH FACE OF PIER 6 HAS EXISTING CONCRETE ENCASEMENT TO REMAIN

407 CORNER, TYP, PIER 6 ONLY

OTHER THAN THE EXCEPTIONS NOTED, REFER TO TYPICAL PIER ENCASEMENT DETAILS FOR REINFORCEMENT



PIER 6 CONCRETE ENCASEMENT PLAN

SCALE: 3/8" = 1'-0"

DESIGNED BY:	RJB
CHECKED BY:	ARRC
DRAFTED BY:	RJB

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ALASKA RAILROAD

PROJECT: BRIDGE 64.7 REHABILITATION

SHEET TITLE: PIER 6 ENCASEMENT

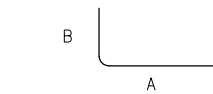
AFE NO. 12263

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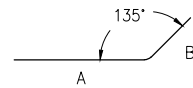
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REBAR SCHEDULE

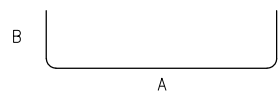
QTY	MARK	BAR SIZE	BEND TYPE	DIMENSION A		DIMENSION B		DIMENSION C		BEND ϕ	NOTES
				FT	IN	FT	IN	FT	IN		
110	401	#4	6	10	6.5						EPOXY, HORIZ. BARS
280	402	#4	6	7	2						EPOXY, VERT. BARS
440	403	#4	1	1	7	0	9		4"		GALV., N/S FACE HOOK TIES
520	404	#4	1	1	3	0	9		4"		GALV, SHORT FACE HOOK TIES
90	405	#4	1	1	8	0	9		4"		GALV, END HOOK TIES
220	406	#4	4	5	1	1	7	3	3	4"	EPOXY, CORNER BARS
20	407	#4	1	4	2.5	1	7		4"		EPOXY, PIER 6, CORNER BAR
20	408	#4	2	2	7	1	1		4"		GALV, PIER 6, HOOK TIES



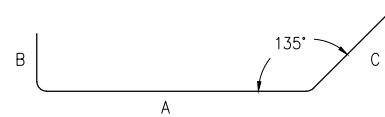
TYPE 1



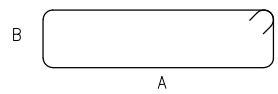
TYPE 2



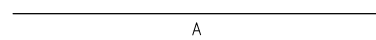
TYPE 3



TYPE 4



TYPE 5



TYPE 6

REINFORCING STEEL NOTES:

1. QUANTITY SHOWN REFLECTS ROUNDED 20% CONTINGENCY FOR DAMAGE
2. FIELD CONDITIONS VARY AND FIELD CUTTING OF REBAR MAY BE NECESSARY.
3. REINFORCING STEEL IS TO BE BLOCKED TO PROPER LOCATION AND SECURELY WIRED AGAINST DISPLACEMENT. TACK WELDING OF REINFORCING AND USE OF REBAR DOPIE BRICKS IS PROHIBITED.

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DRAFTED BY: RJB

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ALASKA RAILROAD

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SHEET TITLE: REBAR SCHEDULE

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