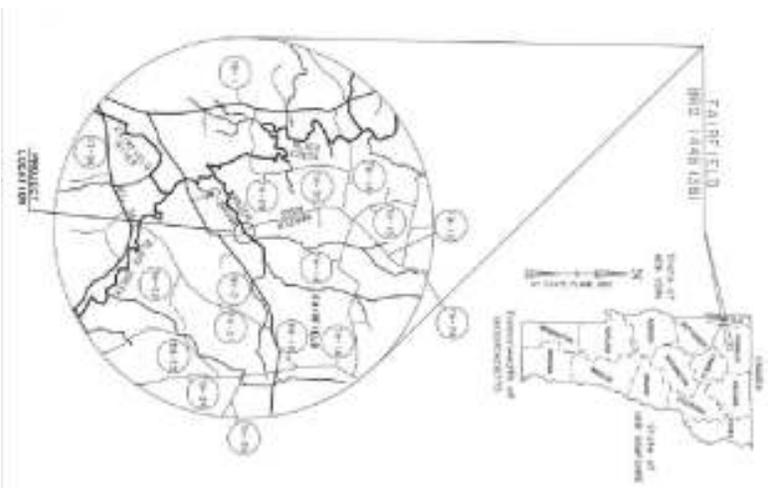


WANZER ROAD OVER WANZER BROOK: BRO 1448(38)
 (BRIDGE NO. 48)
 FAIRFIELD
 FRANKLIN COUNTY
 VERMONT

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX
2	CONSTRUCTION NOTES
3	PLAN VIEW
4	SOUTH ELEVATION
5	NORTH ELEVATION
6	ARCH DETAILS
7	DECK DETAILS
8	HEADWALL LAYOUT
9	HEADWALL DETAILS
10	FASCIA PLATE LAYOUT AND DETAILS



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PROJECT: Wanzer Road Bridge No. 48		TITLE: TITLE SHEET AND INDEX		SHEET NUMBER:	
LOCATION: Fairfield, VT	JN: 12018	INITIALS		DATE	
DRAWING STATUS: Approved for Construction					
Correct scale on size B paper (11x17 Ledger)		DRAWN BY: JEK	4-9-2014	1	OF 10
		DESIGNED BY: JEK	4-9-2014		
		CHECKED BY: ZU	5-20-2014	REV. 07-14-2014	

PREPARED BY:
 AIT BRIDGES
 20 GODFREY DRIVE
 ORONO, ME 04473

ENGINEER _____ DATE _____

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I HEREBY CERTIFY THAT ALL DESIGN ASSUMPTIONS HAVE BEEN VALIDATED EITHER THROUGH CONSTRUCTION DETAILS OR NOTES ON THESE DRAWINGS OR THROUGH THE CONTRACT PLANS AND PROVISIONS."

SUGGESTED CONSTRUCTION SEQUENCE:

1. FORM ABUTMENTS AND PLACE REBAR
2. ATTACH BEARING PLATE TO SPRING OF TWO OUTSIDE ARCHES (SEE SHEET 9 DETAIL A)
3. INSERT END REINFORCEMENT CAGES INTO ARCH ENDS AND INSTALL ARCHES IN ABUTMENTS
4. PLACE DECKING - CUT TO FIT SKEW - SCREW TO ARCHES - DRILL SHEAR BOLT HOLES AND INSTALL SHEAR BOLTS - INSTALL HEADWALL CLIPS ON OUTER ARCHES
5. CAST ARCHES IN ABUTMENTS
6. DRILL 3" HOLE AT APEX OF ARCH AND HIL ARCHES WITH SELF-CONSOLIDATING CONCRETE - INSTALL CLOSURE STRIP OF DECKING AT APEX OF ARCH TO COVER FILL HOLES
7. INSTALL HEADWALL HARDWARE - ERECT AND TEMPORARILY BRACE HEADWALLS
8. BACKFILL STRUCTURE ATTACHING PRIMARY GEOTEXTILE AT 32" LIFTS TO HEADWALL AND PLACING SECONDARY GEOTEXTILE HALFWAY BETWEEN PRIMARY GEOTEXTILE LIFTS (SEE SHEET 8 FOR DETAILS)
9. INSTALL HEADWALL CAP AND FASQA PLATES

ARCH FILLING NOTES:

1. SELF-CONSOLIDATING CONCRETE MAY BE PLACED BY PUMP OR WITH A CONCRETE BUCKET AND FUNNEL
2. EACH ARCH WILL TAKE AN ESTIMATED 1.3 CUBIC YARDS OF CONCRETE
3. NO CONCRETE SHALL BE PLACED IN THE ARCH IF IT DOES NOT MEET THE SLUMP FLOW REQUIREMENTS OF 24" - 30" SPREAD
4. DRILL THE 3" FILL HOLE IN THE ARCH AT THE APEX BETWEEN THE GAP IN THE DECKING. LEAVE THE SHEAR BOLTS OUT OF THE ADJACENT CORRUGATIONS TO ALLOW AIR VENTING DURING FILLING. INSERT SHEAR BOLTS AND PLACE CLOSURE STRIP AFTER FILLING IS COMPLETE.
5. ARCHES CAN BE INSPECTED FOR VOIDS AFTER FILLING BY TAPPING THE ARCH AND LISTENING FOR A HOLLOW SOUND. REPAIR IN ACCORDANCE WITH THE SPECIFICATIONS.

HEADWALL CONSTRUCTION NOTES:

1. THE CENTER PANEL SHOULD BE CENTERED OVER THE APEX OF THE ARCH
2. PANELS MUST BE JOINED BY INSERTING THE BUTTERFLY TOGGLE IN THE KEY WAY. THE TOGGLE MAY BE CUT AND INSERTED WITH THE AID OF A PALM HAMMER
3. HEADWALL BACK BATTER OF 1:32 IS TYPICAL TO RESULT IN A VERTICAL INSTALLATION AFTER BACKFILL. ADJUST IN FIELD AS NECESSARY
4. USE ONLY WALK BEHIND COMPACTORS WITHIN 3 FEET OF HEADWALL WITH A MINIMUM OF THREE PASSES
5. BACKFILL ARCH IN MAXIMUM 8" LOOSE LIFTS. ALTERNATING LIFTS ON EACH SIDE OF THE ARCH TO MAINTAIN BALANCED LOADING. THE MAXIMUM DEVIATION FROM EQUAL BACKFILLING WILL BE 24 INCHES.

MATERIAL NOTES:

1. SELECT BACKFILL SHALL CONTAIN NOT MORE THAN 5% FINES (US NO. 200 SIEVE)
2. ALL STRUCTURAL FASTENERS SHALL CONFORM TO AASHTO M232 HOT DIP GALV.
3. ALL SCREWS SHALL BE 410 STAINLESS STEEL
4. STRUCTURAL ADHESIVE SHALL BE PLOGRIP 7770 OR APPROVED EQUAL

SUPPLIED PARTS LIST:

ARCHES	ARCHES
1. 9 EA. COMPOSITE ARCHES - FRP	1. 9 EA. COMPOSITE ARCHES - FRP
2. 25 EA. ATLAS DECK PANELS - FRP - 42" x 20.9" x3.7" - PRE-CUT AND PRE-DRILLED	DECK
3. 1 EA. DECK CLOSURE STRIP, 42" LONG 1/2"x8" FRP PLATE	2. 25 EA. ATLAS DECK PANELS - FRP - 42" x 20.9" x3.7" - PRE-CUT AND PRE-DRILLED
4. 12 EA. BEARING PLATES FOR OUTSIDE ARCHES. 3/8"x6"x6" FRP PLATES	3. 1 EA. DECK CLOSURE STRIP, 42" LONG 1/2"x8" FRP PLATE
5. 24 EA. ADHESIVE FOR DECK-TO-DECK JOINT. PLOGRIP 7770 - 660 ML TUBES	4. 12 EA. BEARING PLATES FOR OUTSIDE ARCHES. 3/8"x6"x6" FRP PLATES
DECK-TO-ARCH CONNECTION	5. 24 EA. ADHESIVE FOR DECK-TO-DECK JOINT. PLOGRIP 7770 - 660 ML TUBES
6. 350 EA. HEADED SHEAR BOLTS FOR INSIDE ARCHES. 3/8"x6" SS316	DECK-TO-ARCH CONNECTION
7. 100 EA. SHEAR RODS FOR OUTSIDE ARCHES. 3/8"x6" SS316	6. 350 EA. HEADED SHEAR BOLTS FOR INSIDE ARCHES. 3/8"x6" SS316
8. 450 EA. WASHERS. 3/8" SS316	7. 100 EA. SHEAR RODS FOR OUTSIDE ARCHES. 3/8"x6" SS316
9. 100 EA. HEX NUTS. 3/8" SS316	8. 450 EA. WASHERS. 3/8" SS316
10. 480 EA. SCREWS FOR DECKING. 3/4"x42" ZINC PLATED	9. 100 EA. HEX NUTS. 3/8" SS316
11. 75 EA. SCREWS FOR BEARING PLATE. #6-20X1" SS410	10. 480 EA. SCREWS FOR DECKING. 3/4"x42" ZINC PLATED
HEADWALL	11. 75 EA. SCREWS FOR BEARING PLATE. #6-20X1" SS410
12. 38 EA. HEADWALL PANELS - PRE-CUT AND PRE-DRILLED	HEADWALL
13. 1 LUMP SUM HEADWALL CHANNEL CAP. 20" SECTIONS	12. 38 EA. HEADWALL PANELS - PRE-CUT AND PRE-DRILLED
14. 75 EA. SCREWS FOR HEADWALL CAP. #6-20X1" SS410	13. 1 LUMP SUM HEADWALL CHANNEL CAP. 20" SECTIONS
15. 1 LUMP SUM HEADWALL BUTTERFLY TOGGLE CONNECTION. 20" SECTIONS	14. 75 EA. SCREWS FOR HEADWALL CAP. #6-20X1" SS410
FASQA PLATES. 3/8"x8"x48" FRP	15. 1 LUMP SUM HEADWALL BUTTERFLY TOGGLE CONNECTION. 20" SECTIONS
17. 120 EA. SCREWS FOR FASQA PLATES. 3/4"x42" ZINC PLATED	FASQA PLATES. 3/8"x8"x48" FRP
18. 10 EA. FASQA PLATE SEALANT. SIKAFLEX 1A. 10 OZ. TUBES	17. 120 EA. SCREWS FOR FASQA PLATES. 3/4"x42" ZINC PLATED
19. 6 EA. PRIMARY GEORGRID REINFORCEMENT. 5X1 6'X150' ROLL	18. 10 EA. FASQA PLATE SEALANT. SIKAFLEX 1A. 10 OZ. TUBES
20. 1 EA. SECONDARY GEORGRID REINFORCEMENT. 2X1 12' X 150' ROLL	19. 6 EA. PRIMARY GEORGRID REINFORCEMENT. 5X1 6'X150' ROLL
HEADWALL-TO-GEORGRID CONNECTION	20. 1 EA. SECONDARY GEORGRID REINFORCEMENT. 2X1 12' X 150' ROLL
21. 90 EA. HEADWALL SQUARE TUBE WALKER. 1-1/2" BAR IN 2" TUBE. 23-3/4" SECTIONS	HEADWALL-TO-GEORGRID CONNECTION
22. 240 EA. HEADWALL HEX BOLTS. 1/2"x10" GALV. A307A	21. 90 EA. HEADWALL SQUARE TUBE WALKER. 1-1/2" BAR IN 2" TUBE. 23-3/4" SECTIONS
23. 240 EA. HEADWALL PLATE WASHER. 3/4"x4-1/2" OD x 3/8" ID GALV. A36	22. 240 EA. HEADWALL HEX BOLTS. 1/2"x10" GALV. A307A
24. 240 EA. HEADWALL SPACER PIPE. 3/4" x3-3/8" SCH 40 GALV.	23. 240 EA. HEADWALL PLATE WASHER. 3/4"x4-1/2" OD x 3/8" ID GALV. A36
25. 750 EA. HEADWALL HEAVY HEX NUT. 3/4" A563DH GALV.	24. 240 EA. HEADWALL SPACER PIPE. 3/4" x3-3/8" SCH 40 GALV.
26. 750 EA. HEADWALL WASHER. 3/4" F844 GALV.	25. 750 EA. HEADWALL HEAVY HEX NUT. 3/4" A563DH GALV.
HEADWALL-TO-DECK BASE ANGLE CONNECTION	26. 750 EA. HEADWALL WASHER. 3/4" F844 GALV.
27. 106 EA. ANGLES. 4" WIDE L3-1/2"x3-1/2"x3/8" A36 GALV	HEADWALL-TO-DECK BASE ANGLE CONNECTION
28. 148 EA. PLATES. 3/4"x1-3/4"x VARIOUS LENGTHS. A36 GALV.	27. 106 EA. ANGLES. 4" WIDE L3-1/2"x3-1/2"x3/8" A36 GALV
29. 106 EA. HEX BOLT. 3/4"x2-1/2" A307A GALV.	28. 148 EA. PLATES. 3/4"x1-3/4"x VARIOUS LENGTHS. A36 GALV.
30. 106 EA. HEAVY HEX NUT. 3/4" A563DH GALV.	29. 106 EA. HEX BOLT. 3/4"x2-1/2" A307A GALV.
31. 212 EA. WASHER. 3/4" F844 GALV.	30. 106 EA. HEAVY HEX NUT. 3/4" A563DH GALV.
32. 110 EA. SQUARE BEVEL WASHER. 3/4" F436-1 GALV.	31. 212 EA. WASHER. 3/4" F844 GALV.



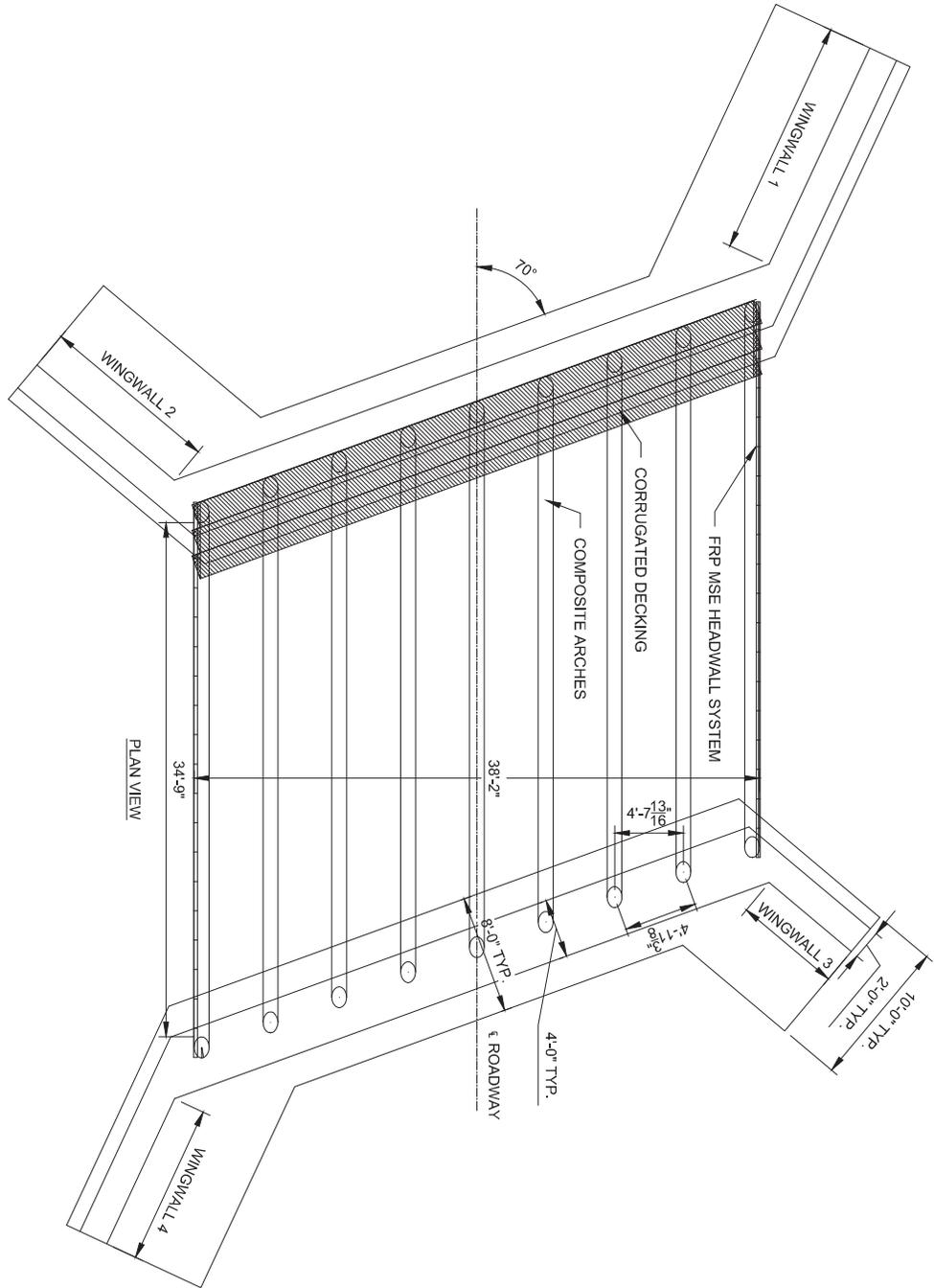
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PROJECT: Wanzzer Road Bridge No. 48		TITLE: CONSTRUCTION NOTES		SHEET NUMBER:	
LOCATION: Fairfield, VT	JN: 12018	INITIALS		DATE	
DRAWING STATUS: Approved for Construction		JEK	4-9-2014	<div style="font-size: 48pt; font-weight: bold; text-align: center;">2</div> <div style="text-align: center;">OF 10</div>	
Correct scale on size B paper (11x17 Ledger)		JEK	4-9-2014		
		ZU	5-20-2014		
		CHECKED BY:	ZU	5-20-2014	REV. 07-14-2014

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PROJECT: Wanzzer Road Bridge No. 48

LOCATION: Fairfield, VT JN: 12018

DRAWING STATUS: Approved for Construction

Correct scale on size B paper (11x17 Ledger)

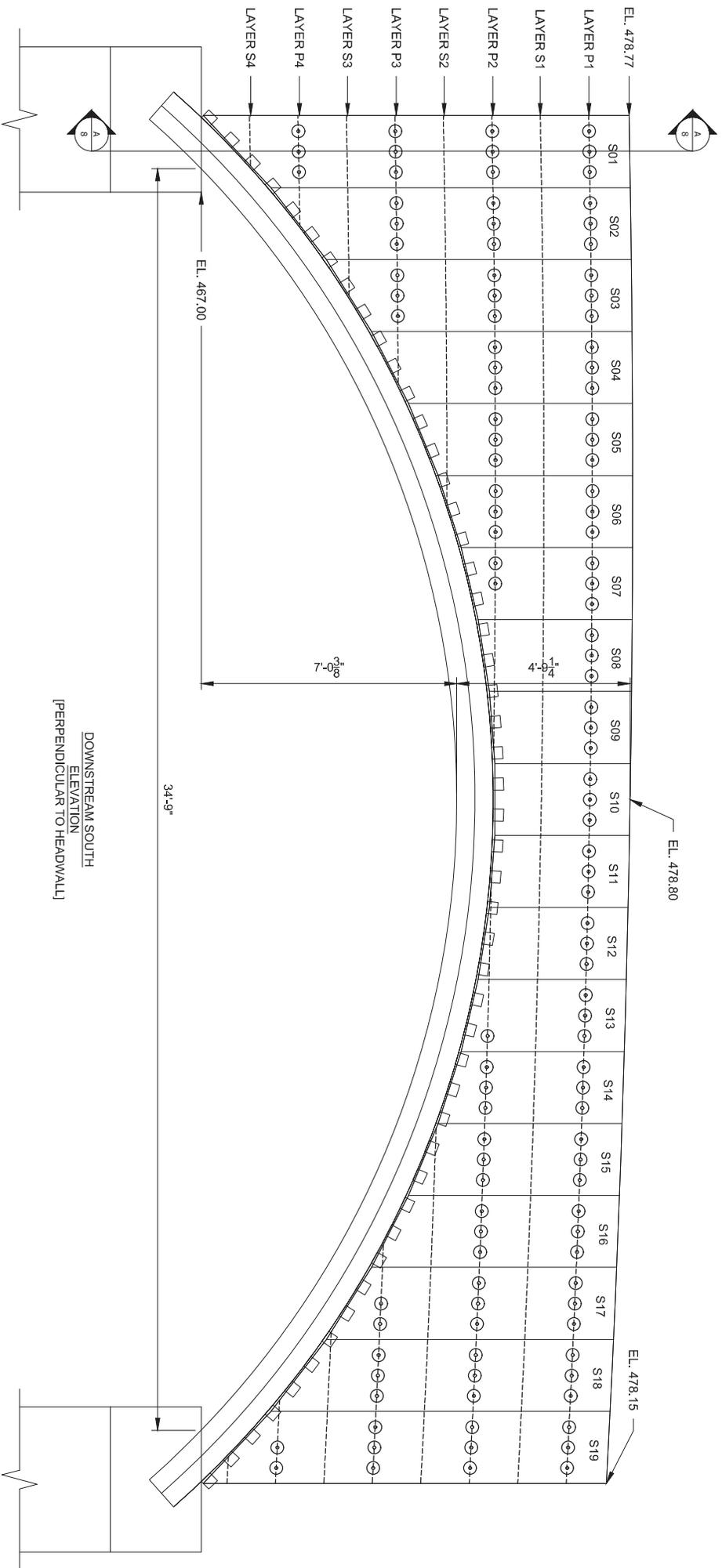
TITLE: PLAN

INITIALS		DATE	
DRAWN BY:	JEK	4-9-2014	
DESIGNED BY:	JEK	4-9-2014	
CHECKED BY:	ZU	5-20-2014	

SHEET NUMBER:

3 OF 10

REV: 07-14-2014



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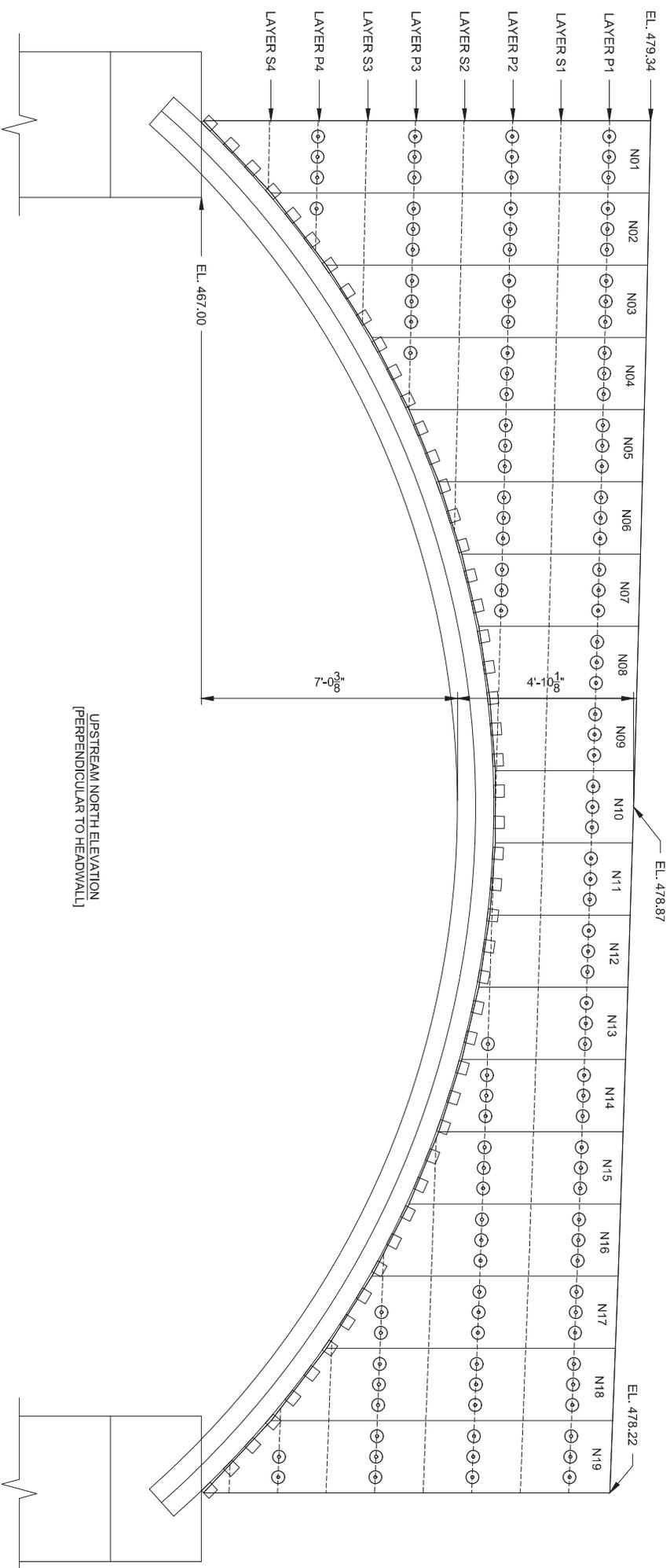
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PROJECT: Wanzler Road Bridge No. 48		TITLE: SOUTH ELEVATION		SHEET NUMBER:	
LOCATION: Fairfield, VT		JN: 12018		INITIALS	
DRAWING STATUS: Approved for Construction		DRAWN BY: JEK		DATE	
Correct scale on size B paper (11x17 Ledger)		DESIGNED BY: JEK		4-9-2014	
		CHECKED BY: ZU		4-9-2014	
				5-20-2014	
				REV. 07-14-2014	

PROJECT: Wanzzer Road Bridge No. 48	
LOCATION: Fairfield, VT	JN: 12018
DRAWING STATUS: Approved for Construction	
Correct scale on size B paper (11x17 Ledger)	

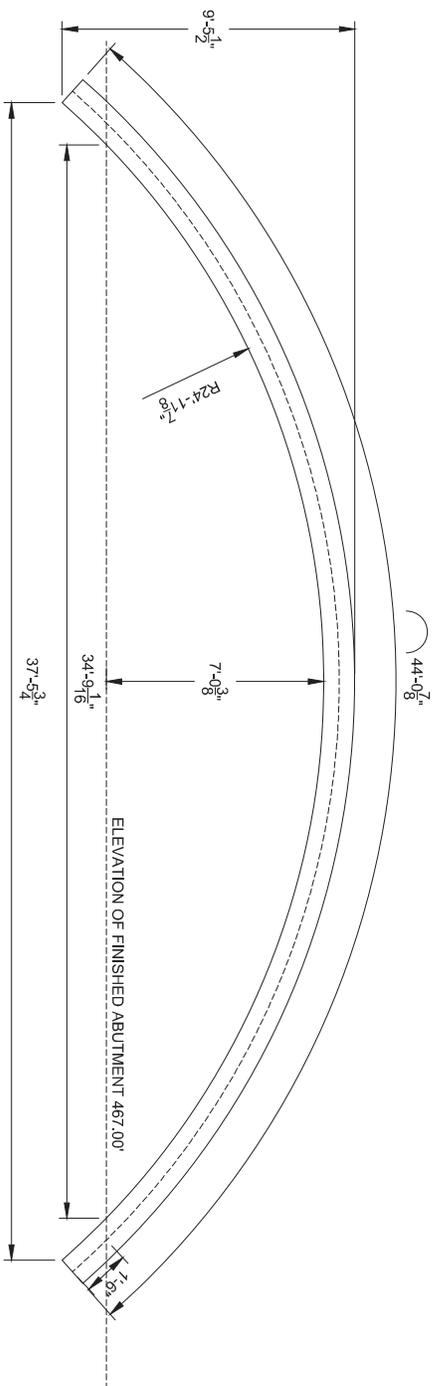
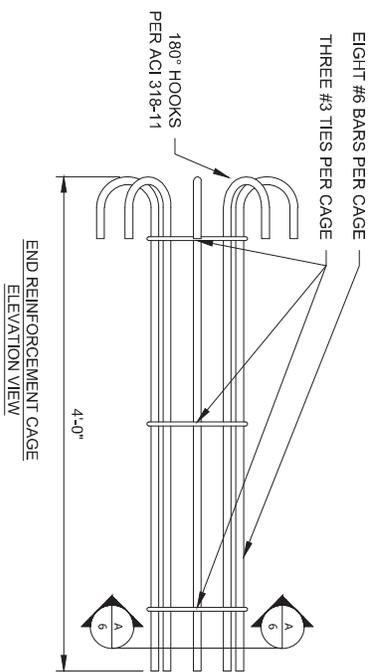
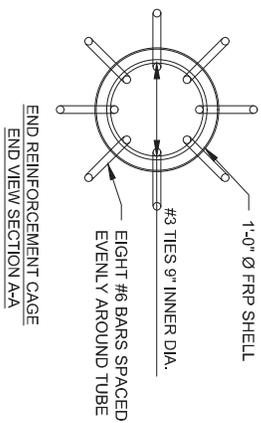
TITLE: NORTH ELEVATION	
DRAWN BY:	INITIALS
DESIGNED BY:	DATE
CHECKED BY:	
JEK	4-9-2014
JEK	4-9-2014
ZU	5-20-2014

SHEET NUMBER:	5
	OF 10
REV: 07-14-2014	



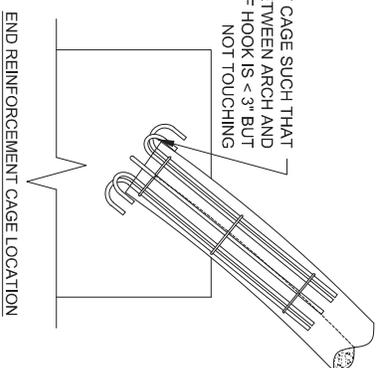
FINISHING NOTES:

1. ARCH MATERIALS SHALL CONFORM TO SECTION 3 OF "AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF CONCRETE-FILLED FRP TUBES FOR FLEXURAL AND AXIAL MEMBERS"
2. PROJECT SHALL INCLUDE NINE (9) COMPOSITE ARCHES, ONE (1) LAYER OF AIT12GNP, THREE (3) LAYERS OF AIT12GS, AND DEREKANE 6100C VINYL ESTER RESIN.
3. PROJECT SHALL INCLUDE EIGHTEEN (18) END REINFORCEMENT CAGES - SUPPLIED BY ERECTION CONTRACTOR
4. ARCH FINISH COAT SHALL BE SHERWIN-WILLIAMS FLUOROKEM FLUOROPOLYMER URETHANE MCSO SW4028 GYPSUM COLORED PAINT
5. ARCHES SHALL BE MANUFACTURED FOLLOWING AIT QUALITY ASSURANCE PLAN REV. 3.0
6. 3"Ø FILL HOLE AND SHEAR BOLT HOLES SHALL BE DRILLED IN THE FIELD BY ERECTION CONTRACTOR



ARCH FINISH DIMENSIONS

INSERT CAGE SUCH THAT GAP BETWEEN ARCH AND INSIDE OF HOOK IS < 3" BUT NOT TOUCHING



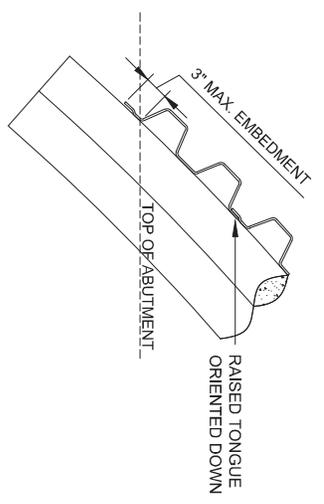
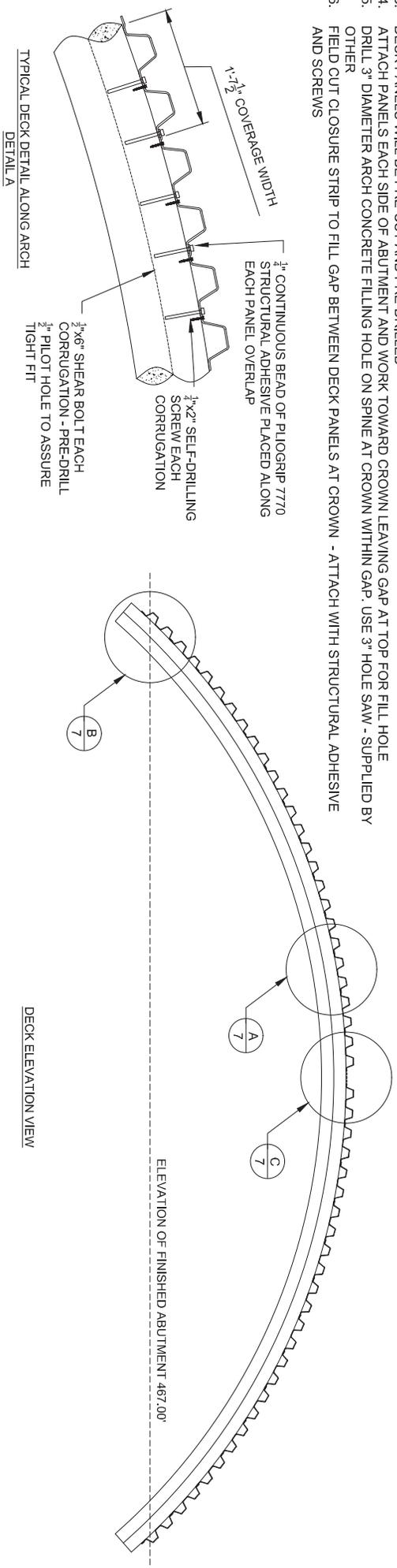
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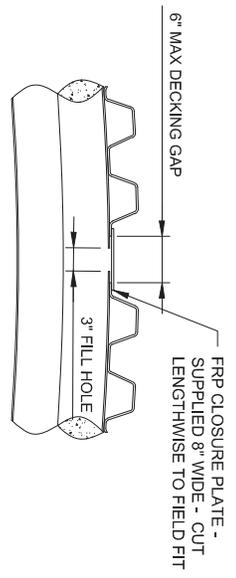
PROJECT: Wanzzer Road Bridge No. 48		TITLE: ARCH DETAILS		SHEET NUMBER:	
LOCATION: Fairfield, VT	JN: 12018	INITIALS		DATE	
DRAWING STATUS: Approved for Construction		JEK	JEK	4-9-2014	4-9-2014
Correct scale on size B paper (11x17 Ledger)		ZU	ZU	5-20-2014	5-20-2014
				REV: 07-14-2014	

DECK NOTES:

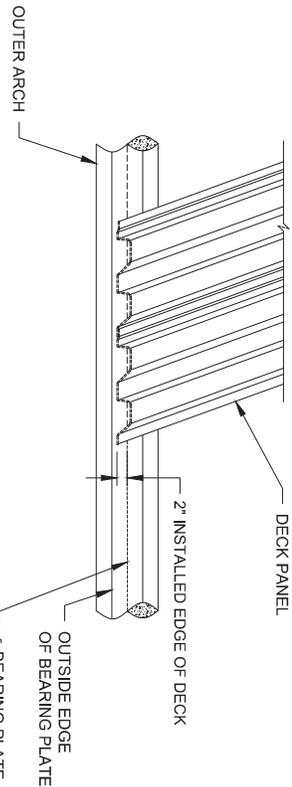
1. PROJECT TO INCLUDE TWENTY-FIVE (25) ATLAS FRP DECK PANELS 42" LONG x 20.9" WIDE (19.5" COVERAGE WIDTH) x 3.7" DEEP
2. BRIDGE WIDTH TO BE SPANNED BY ONE PANEL - NO SPLICING
3. DECK PANELS WILL BE PRE-CUT AND PRE-DRILLED
4. ATTACH PANELS EACH SIDE OF ABUTMENT AND WORK TOWARD CROWN LEAVING GAP AT TOP FOR FILL HOLE
5. DRILL 3" DIAMETER ARCH CONCRETE FILLING HOLE ON SPINE AT CROWN WITHIN GAP. USE 3" HOLE SAW - SUPPLIED BY OTHER
6. FIELD CUT CLOSURE STRIP TO FILL GAP BETWEEN DECK PANELS AT CROWN - ATTACH WITH STRUCTURAL ADHESIVE AND SCREWS



DECK DETAIL AT BASE OF ARCH
DETAIL B



DECK DETAIL AT CROWN OF ARCH
DETAIL C



DECK CUTTING DETAIL
PLAN PERSPECTIVE VIEW

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PROJECT: Wanzzer Road Bridge No. 48		TITLE: DECK DETAILS		SHEET NUMBER:	
LOCATION: Fairfield, VT	JN: 12018	INITIALS		DATE	
DRAWING STATUS: Approved for Construction		JEK	JEK	4-9-2014	4-9-2014
Correct scale on size B paper (11x17 Ledger)		ZU	ZU	5-20-2014	5-20-2014
				REV. 07-14-2014	

GEOGRID NOTES:

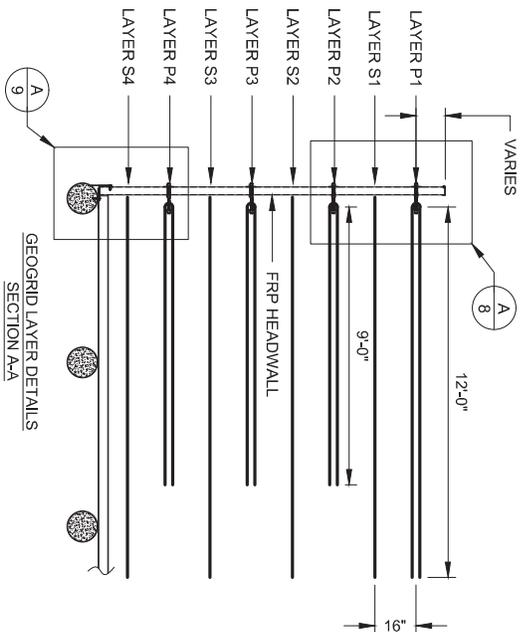
- PRIMARY REINFORCEMENT - 5XT
- LAYERS WITH "P" INDICATE PRIMARY REINFORCEMENT WITH TWO TAILS
- PRIMARY REINFORCEMENT IS ATTACHED TO HEADWALL BY WRAPPING CONTINUOUS EQUAL LENGTH TAILS AROUND FRP WALER PERPENDICULAR TO HEADWALL

SECONDARY REINFORCEMENT - 2XT

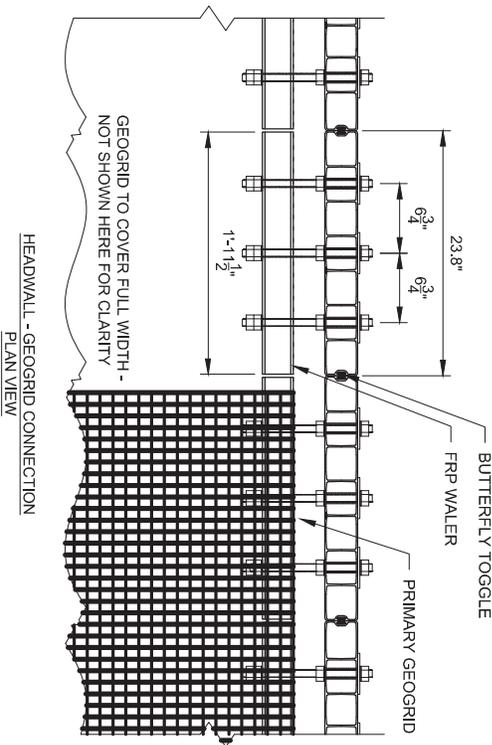
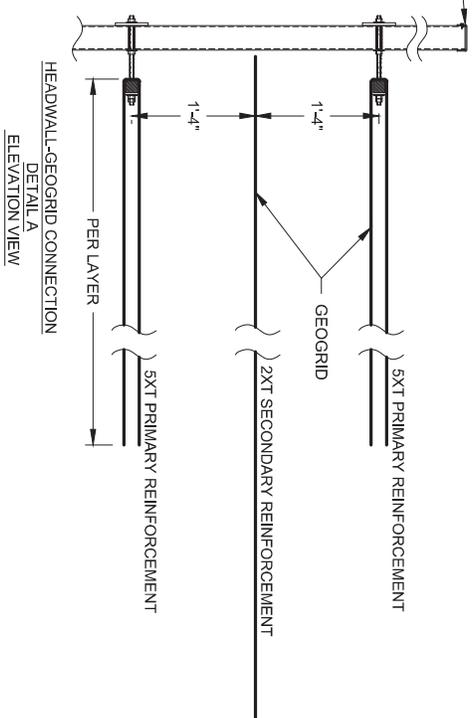
- LAYERS WITH "S" INDICATE SECONDARY REINFORCEMENT WITH ONE TAIL
- SECONDARY REINFORCEMENT EXTENDS TO THE HEADWALL, BUT IS NOT ATTACHED
- PLACE PARALLEL TO HEADWALL - UNROLL 12" WIDE ROLE PARALLEL TO WALL
- SECONDARY REINFORCEMENT DOES NOT ATTACH TO HEADWALL

INSTALLATION

- FOLLOW ALL WRITTEN SPECIFICATION WHEN INSTALLING GEOGRID
- INSTALL ALL LAYERS TO THE EXTENTS INDICATED BY DASHED LINES IN ELEVATION DRAWINGS
- ADJACENT LAYERS MUST BE BUTTED TO ONE ANOTHER TO ACHIEVE 100% COVERAGE
- MACHINE DIRECTION OF PRIMARY GEOGRID MUST BE ORIENTED PERPENDICULAR TO WALL
- PRIMARY GEOGRID ROLLS ARE 6' WIDE - EXTRA WIDTH CAN BE BURIED IN BACKFILL OR CUT TO FIT
- PRIMARY GEOGRID IS CUT TO FULL LENGTH - NO SPLICING IN THE MACHINE DIRECTION IS PERMITTED
- SECONDARY GEOGRID ROLLS ARE 12' WIDE AND CUT PERPENDICULAR TO WALL
- SUGGESTED HEADWALL BATTER IS 1:32 BACK FROM VERTICAL (BETWEEN 1.5" - 4.5")
- BACKFILL PLACEMENT SHOULD BE PLACED TO PREVENT DAMAGE AND WRINKLES



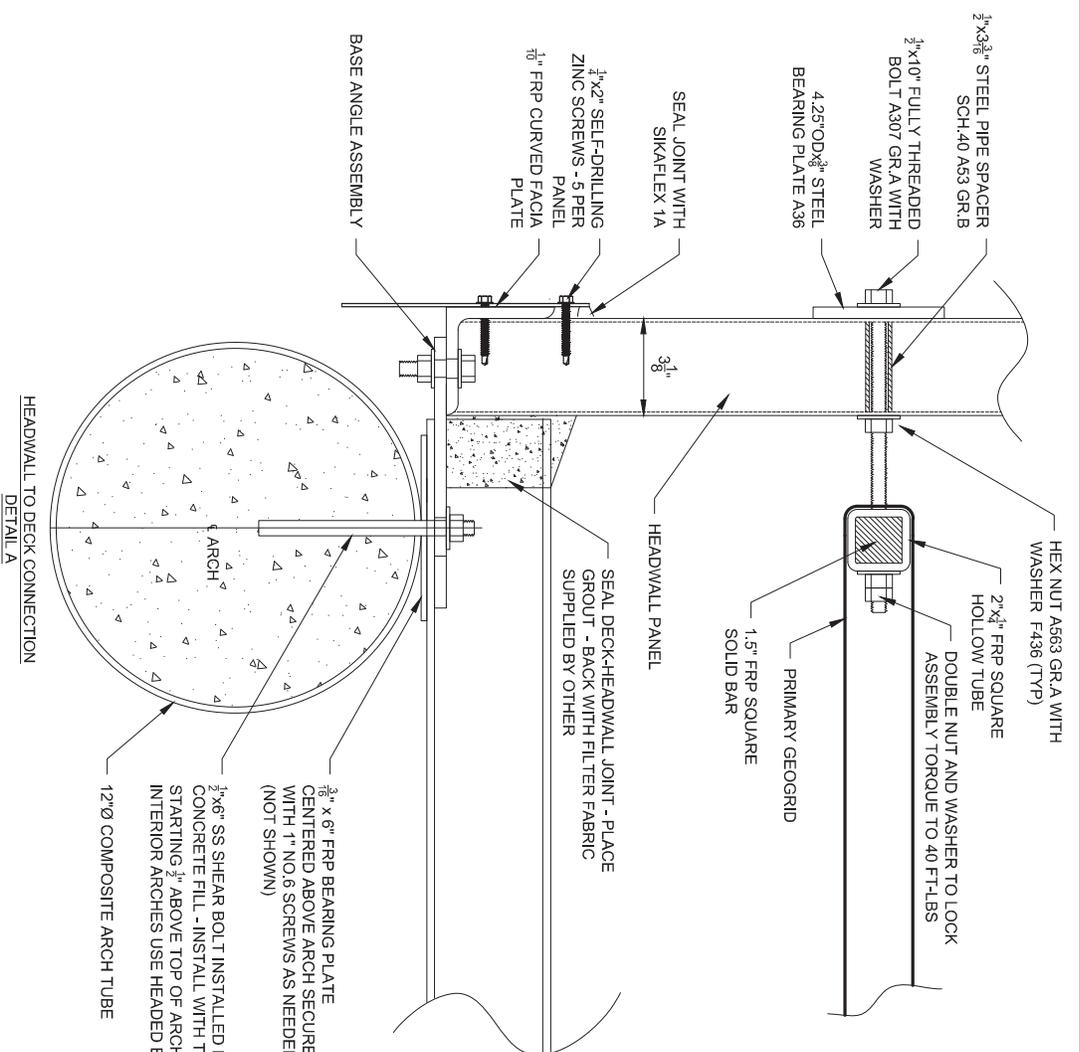
HEADWALL CAP SECURED WITH #6 1" SCREWS 24" O.C. EACH SIDE



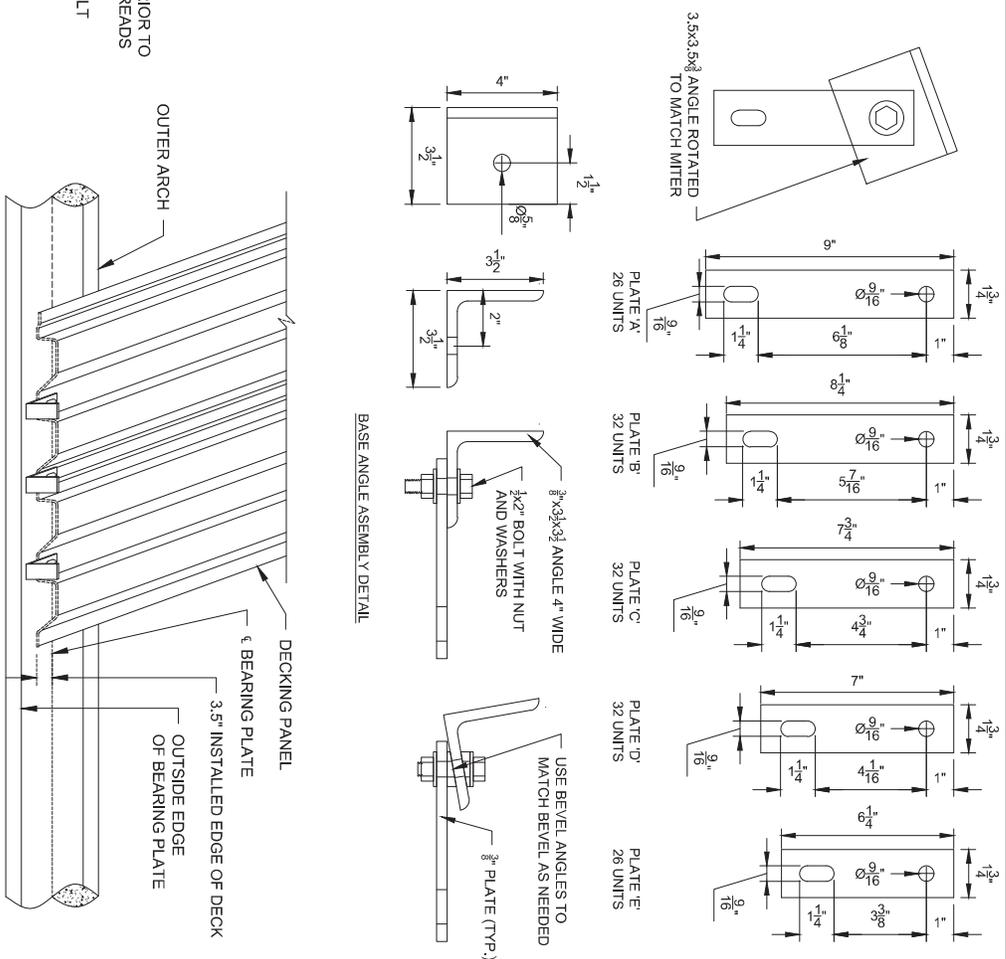
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PROJECT: Wanzer Road Bridge No. 48		TITLE: HEADWALL LAYOUT		SHEET NUMBER:	
LOCATION: Fairfield, VT		JN: 12018		INITIALS	
DRAWING STATUS: Approved for Construction		DESIGNED BY: JEK		DATE: 4-9-2014	
Correct scale on size B paper (11x17 Ledger)		CHECKED BY: ZU		DATE: 5-20-2014	
		REV: 07-14-2014		REV: 07-14-2014	



HEADWALL TO DECK CONNECTION
DETAIL A



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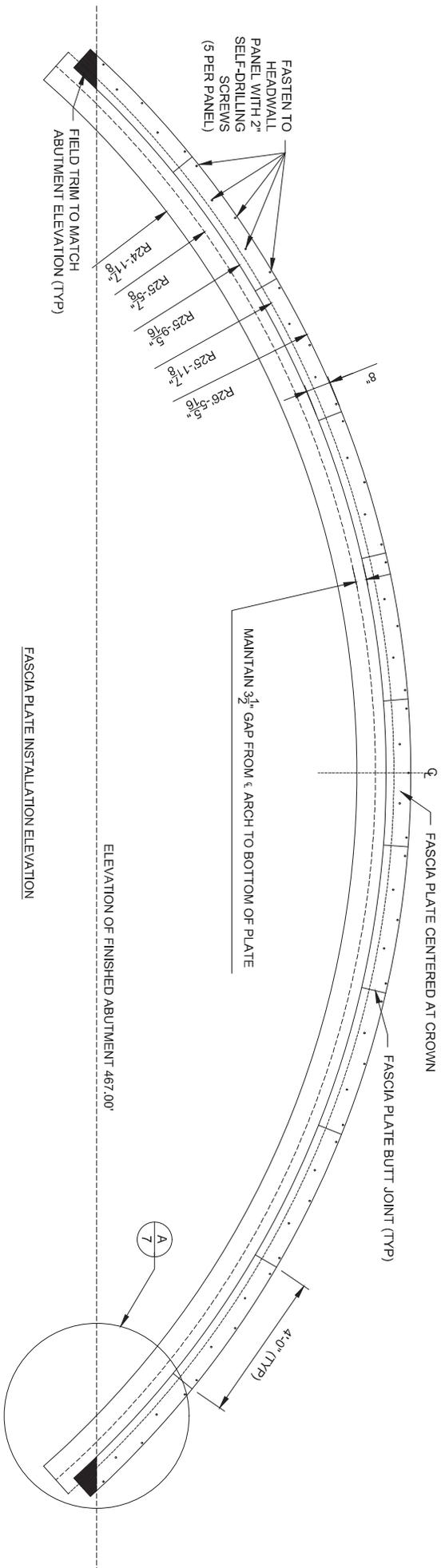
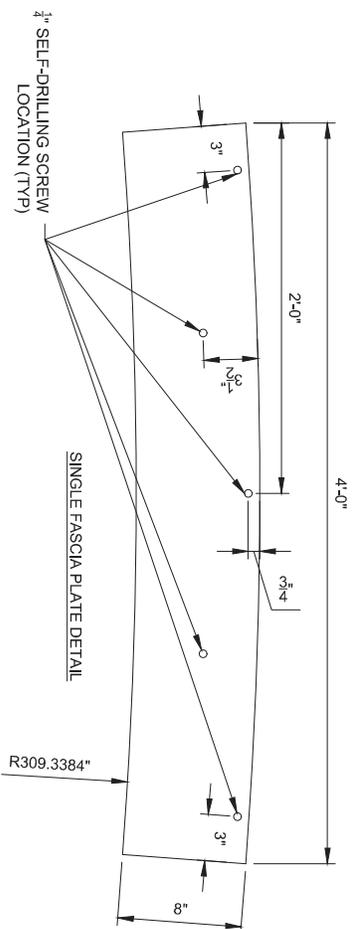
PROJECT: Wanzzer Road Bridge No. 48
 LOCATION: Fairfield, VT
 JN: 12018
 DRAWING STATUS: Approved for Construction
 Correct scale on size B paper (11x17 Ledger)

TITLE: HEADWALL DETAILS
 INITIALS DATE
 DRAWN BY: JEK 4-9-2014
 DESIGNED BY: JEK 4-9-2014
 CHECKED BY: ZU 5-20-2014

SHEET NUMBER:
9 OF 10
 REV. 07-14-2014

FASCIA PLATE NOTES:

- PROJECT SHALL INCLUDE TWENTY-TWO (22) TOTAL 1/8" BIDIRECTIONAL E-GLASS CURVED FASCIA PLATES
- FASCIA PLATES SHALL BE PROVIDED CUT TO DIMENSIONS SHOWN ON PLANS
- FASCIA PLATES WILL NOT BE PRE-DRILLED OR MARKED AT SCREW LOCATIONS
- FASCIA PLATES SHALL BE FINISHED WITH SHERWIN-WILLIAMS FLUOROKEM FLUOROPOLYMER URETHANE MCSO SW4028 GYPSUM COLORED PAINT



FASCIA PLATE INSTALLATION ELEVATION

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PROJECT: Wanzel Road Bridge No. 48		TITLE: FASCIA PLATE LAYOUT AND DETAILS		SHEET NUMBER: 10 OF 10	
LOCATION: Fairfield, VT	JN: 12018	DRAWN BY: JEK	DATE: 4-9-2014	INITIALS: JEK	DATE: 4-9-2014
DRAWING STATUS: Approved for Construction		DESIGNED BY: JEK	DATE: 4-9-2014	CHECKED BY: ZU	DATE: 5-20-2014
Correct scale on size B paper (11x17 Ledger)					REV. 07-14-2014