

100'-0" x 30'-0"

MESA TOP DRIVE SOUTH BRIDGE

ELITE PROPERTIES of AMERICA, INC

REVIEW AND APPROVAL		
APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT
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REVIEWED BY:

COMPANY:

DATE:

PLEASE CHECK ONE BOX FOR EACH SHEET AND ADD COMMENTS AS NEEDED ON APPROPRIATE SHEETS

DRAWING INDEX	
SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	GENERAL NOTES & ANCHOR DETAILS
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BY RELEASING CONTECH ENGINEERED SOLUTIONS TO FABRICATE, CUSTOMER ACKNOWLEDGES CONTECH SUBMITTAL PLANS HAVE BEEN REVIEWED BY ALL RELATED PARTIES TO THE PROJECT AND THEY ARE DIRECTING CONTECH TO FABRICATE ACCORDING TO THE APPROVED PLANS.



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CONTRACT
DRAWING

100'-0" x 30'-0"

MESA TOP DRIVE SOUTH BRIDGE

ELITE PROPERTIES of AMERICA, INC

FOUNTAIN, CO

CONTECH
ENGINEERED SOLUTIONS LLC
www.conteches.com
800-328-2417 320-345-9126 320-596-3148 FAX

BIGB
BRIDGE

DATE: 7/24/2020

DESIGNED: NBE

DRAWN: RDH

CHECKED: NBE

APPROVED: NBE

PROJECT No.: 621715

SEQUENCE No.: 030

SHEET: 1

OF 10

	REVISED PER REVIEWER COMMENTS	REVISED PER REVIEWER COMMENTS	CUSTOMER COMMENTS	CUSTOMER COMMENTS	CUSTOMER COMMENTS	REVISION DESCRIPTION
	5/25/2021	5/18/2021	4/5/2021	12/14/2020	9/25/2020	DATE
	E	D	C	B	A	MARK
TLF						
TLF						
TLF						
RDH						
RDH						
BY						

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GENERAL NOTES:

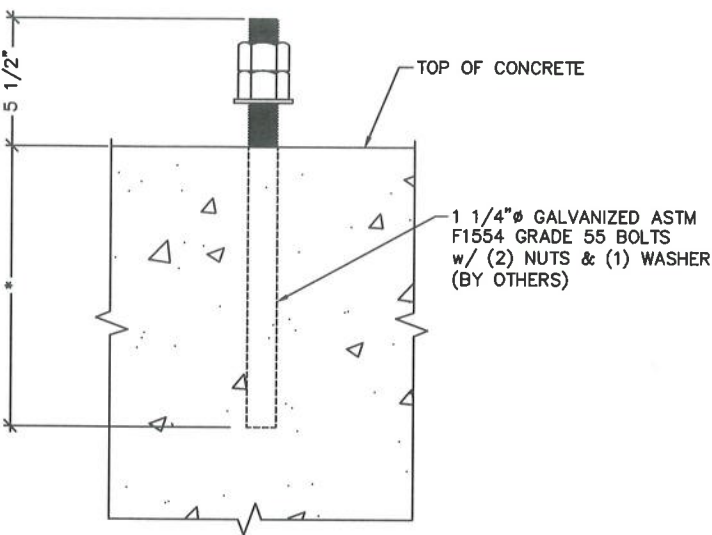
1. CONTECH ENGINEERED SOLUTIONS HAS AISC QUALITY CERTIFIED BRIDGE FABRICATION - ADVANCED (MAJOR) WITH A FRACTURE CRITICAL AND SOPHISTICATED PAINT ENDORSEMENT AND CWB CERTIFIED TO CSA STANDARD W47.1 DIVISION 2.
2. DESIGN IS IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th EDITION 2017.
3. MATERIALS (UNLESS NOTED OTHERWISE):
- a. STRUCTURAL STEEL: ASTM A588 WEATHERING STEEL TUBES: ASTM A847 WEATHERING STEEL
 - b. ELASTOMERIC PADS: GRADE 4, 60 DUROMETER
 - c. SHEET PILING: ASTM A929 (GALV) STRUCTURAL BOLTS: ASTM F3125 GRADE A325 (TYPE 1)
 - d. GUARDRAIL BOLTS: ASTM A307 (GALV)
4. DESIGN LOADINGS:
- a. BRIDGE DEAD LOAD PLUS 37.5 FUTURE WEARING SURFACE.
 - b. VEHICLE LIVE LOAD: HL-93, MAX ADTT = 160
 - c. WIND LOADING PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 3.8:
WIND SPEED = 115 MPH
WIND EXPOSURE CATEGORY = C
MAX HEIGHT OF STRUCTURE = 33 FT.
 - d. BRIDGE RAIL DESIGNED FOR TL-1 LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS APPENDIX A13.2 (RAIL HAS NOT BEEN CRASH TESTED)
 - e. SEISMIC LOADING PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 3.10:
SITE CLASS: D
PGA = 0.058
S_s = 0.125
S_i = 0.035
PERIOD OF BRIDGE = T_m = 0.076 SEC
5. BRIDGE TO BE BUILT TO THE REQUIREMENTS OF AWS D1.5.
6. ALL SHOP WELDING SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS.
7. FINISH:
ALL EXPOSED SURFACES OF STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 1, SSPC-SP1 SOLVENT CLEANING. EXPOSED SURFACES OF STEEL SHALL BE DEFINED AS THOSE SURFACES SEEN FROM THE DECK OR FROM THE OUTSIDE (AND BOTTOM) OF THE STRUCTURE. ALL OTHER SURFACES TO HAVE STANDARD MILL FINISH.
8. ALL BOLTED CONNECTIONS ARE CONSIDERED TO BE PRETENSIONED OR SLIP-CRITICAL CONNECTIONS. ALL BOLTS ARE TO BE PRETENSIONED PER THE REQUIREMENTS OF SECTION 8.2 OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS BY RCSC.
9. ALL BOLTS, NUTS AND WASHERS SHALL BE FURNISHED IN THE AMOUNT OF 5% IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH.
10. IF BOLTS DO NOT SMOOTHLY ENGAGE UP TO SNUG-TIGHT, THERE MAY BE AN OBSTRUCTION WITHIN THE THREADS. THE BOLTS SHOULD BE REMOVED, THE THREADS ON THE BOLT AND NUT CLEANED AND RETAPPED IF NECESSARY TO ALLOW SMOOTH INSTALLATION OF THE BOLT. (IF APPLICABLE)
11. MAINTENANCE NOTE: CONTECH RECOMMENDS NOT APPLYING DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE. IF DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS ARE APPLIED TO ANY PART OF THE BRIDGE STRUCTURE, CONTECH WILL NOT BE RESPONSIBLE FOR ANY RESULTANT ACCELERATED CORROSION.

CONCRETE NOTES

1. BIG R BRIDGE IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK. ALL ISSUES RELATED TO MATERIAL SUPPLY, TESTING AND INSTALLATION ARE OUTSIDE OF BIG R BRIDGE'S RESPONSIBILITY.
2. CONCRETE MIX DESIGN, MATERIALS, MIXING, PLACEMENT, FINISHING AND TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 601 OF CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2017 EDITION.
3. MINIMUM MATERIAL REQUIREMENTS:
- a. CONCRETE: CLASS D OR H: f_c = 4500 psi AT 28 DAY
AIR CONTENT OF 5.5% +/- 1%
UNIT WEIGHT OF 145 PCF MAX
 - b. REINFORCING: ASTM A615 GRADE 60 OR ASTM A775 FOR EPOXY COATING
4. THE USE OF EPOXY COATED REBAR, GALVANIZED REBAR, DECK SEALERS OR ANY OTHER FORM OF PROTECTION OF THE REBAR SHALL BE DONE AS NEEDED FOR LOCAL CONDITIONS OR AS REQUIRED PER THE PROJECT CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF BIG R BRIDGE.
5. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.
6. LONGITUDINAL BARS MAY BE SPICED IF REQUIRED. SPICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. SPICES SHALL BE LOCATED AT OR NEAR THE ONE-THIRD POINT OF THE BAY SPANS FROM FLOOR BEAM TO FLOOR BEAM. REQUIRED SPICE LENGTHS ARE AS FOLLOWS:

BAR SIZE	NORMAL WEIGHT CONCRETE (145 PCF)	LIGHT WEIGHT CONCRETE (120 PCF)
#4	29"	35"
#5	36"	43"
#6	43"	52"
#7	50"	60"
#8	57"	69"
#9	70"	85"

7. STAY IN PLACE GALVANIZED FORM DECK SHALL BE USED ON THE BRIDGE. FORM DECK SHALL BE SHOP ATTACHED TO FLOOR BEAMS VIA SELF-DRILLING FASTENERS, WELDING OR POWER ACTUATED FASTENERS. LONGITUDINAL SHEET LAPS SHALL BE ATTACHED WITH SELF-DRILLING FASTENERS AT 36" MAXIMUM SPACING. THE ATTACHMENT OF THE FORM DECK TO THE FLOOR BEAMS IS ONLY NECESSARY TO KEEP THE FORM DECK IN PLACE DURING TRANSPORTATION AND DURING THE CONCRETE PLACEMENT. THE FORM DECK IS NOT REQUIRED FOR DIAPHRAGM ACTION OR COMPOSITE ACTION AND PROVIDES NO STRUCTURAL BENEFIT TO THE TRUSS OR THE DECK AFTER THE CONCRETE IS SET.
8. CONCRETE TO BE FINISHED WITH A TRANSVERSE BROOM FINISH.
9. THE USE OF GROOVED CONTRACTION JOINTS SHALL BE PUT IN PER THE PROJECT CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER AND OWNER. IF CONTRACTION JOINTS ARE USED, THEY SHALL BE PLACED OVER THE CENTERLINE OF THE FLOOR BEAMS AS NEEDED.



ANCHOR BOLT DETAIL

***NOTE:**
ANCHOR BOLTS ARE DESIGNED BY CONTECH FOR STEEL STRENGTH IN SHEAR AND TENSION OF THE ANCHOR BOLT ONLY. ALL DESIGN CONSIDERATIONS REGARDING CONCRETE BREAKOUT STRENGTH IN SHEAR AND TENSION, PULLOUT STRENGTH, CONCRETE SIDE-FACE BLOWOUT STRENGTH, CONCRETE PRYOUT STRENGTH, EMBEDMENT DEPTH, TYPE OF ANCHORAGE OR ANY OTHER CONCRETE FAILURE MODES ARE NOT CONSIDERED AND ARE NOT THE RESPONSIBILITY OF CONTECH. IF LARGER DIAMETER BOLTS ARE REQUIRED TO MEET ANY OF THESE REQUIREMENTS, THAT INFORMATION MUST BE PROVIDED TO CONTECH PRIOR TO BEGINNING ANY FABRICATION ON THE BRIDGE.

LIFTING WEIGHTS			
ITEM	QTY	UNIT WEIGHT (LBS)	TOTAL WEIGHT (LBS)
BRIDGE SECTION 1A	1	21,710	21,710
BRIDGE SECTION 1B	1	32,311	32,311
BRIDGE SECTION 2A	1	31,920	31,920
BRIDGE SECTION 2B	1	47,349	47,349
LOOSE ITEMS	-	-	18,000
TOTAL BRIDGE WEIGHT:			151,290

	BEARING REACTION IN KIPS	MAX AT INTERIOR STRINGER			MAX AT EXTERIOR STRINGER			TOTAL AT ABUTMENT		
		P	H	L	P	H	L	P	H	L
HL-93	DEAD LOAD (DC)	53.78			39.77			240.89		
	WEARING SURFACE LOAD (DW)	13.44			34.42			109.14		
	VEHICLE LOAD (LL)	90.43			68.83			193.83		
	VEHICLE LOAD + DYNAMIC LOAD ALLOWANCE (LL+IM)	104.99			79.91			236.87		
	WIND LOAD (WS)	-30.00*	3.00			3.00		-30.00*	15.00	
	THERMAL LOAD (TU)			13.32			13.32			66.59
	BREAKING FORCE (BR)			7.20			7.20			36.00
	SEISMIC LOAD (EQ)		13.36	26.72		13.36	26.72		66.79	133.59

"P": VERTICAL LOAD
"H": HORIZONTAL LOAD TRANSVERSE TO THE STRUCTURE
"L": HORIZONTAL LOAD LONGITUDINAL TO THE STRUCTURE
* WIND LOAD UPLIFT ASSUMES FULL 20 PSF TO DECK AREA IS APPLIED TO ONE STRINGER LINE

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DRAWING



5-25-21



100'-0" x 30'-0"

MESA TOP DRIVE SOUTH BRIDGE

ELITE PROPERTIES OF AMERICA, INC

FOUNTAIN, CO

CONTECH
ENGINEERED SOLUTIONS LLC
www.conteches.com
1000 C 106 Center, CO 80031
800-328-2047 320-545-9126 320-566-3146 FAX

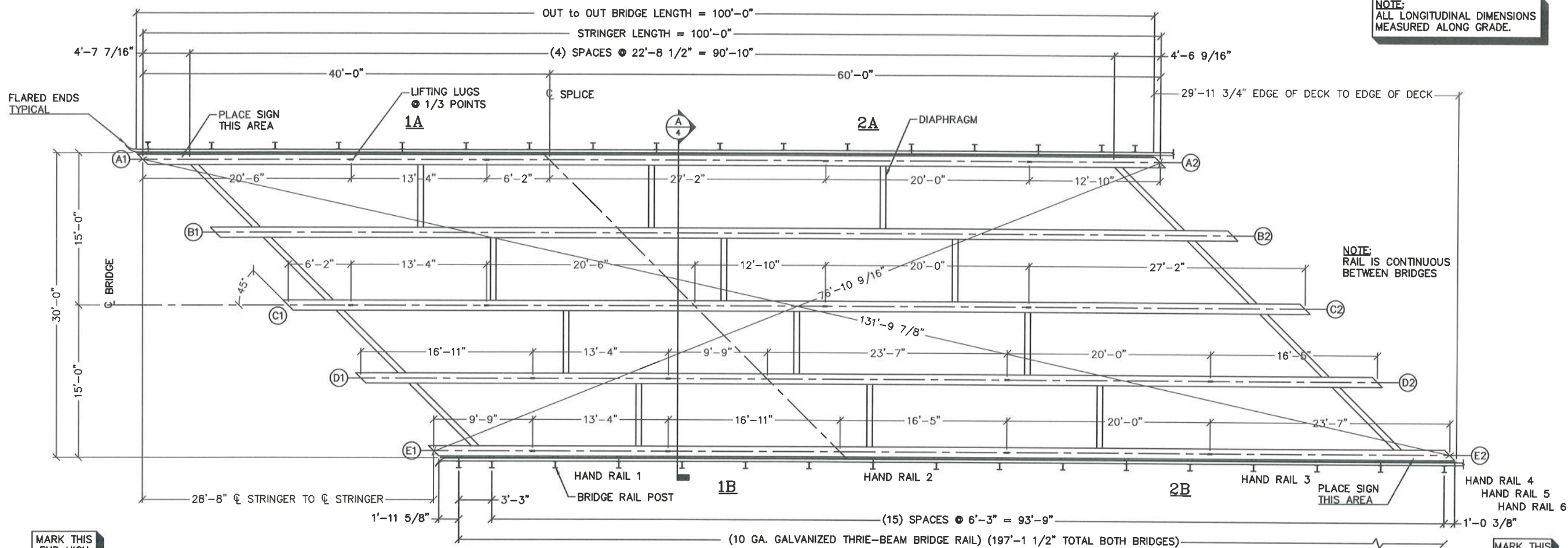
BIG R
BRIDGE

DATE: 7/24/2020

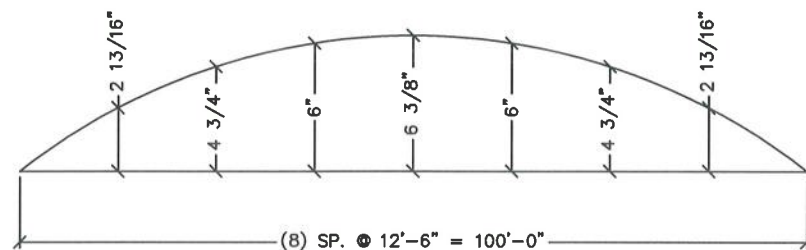
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CHECKED: NBE	APPROVED: NBE
PROJECT No.: 621715	SEQUENCE No.: 030
SHEET: 2 OF 10	

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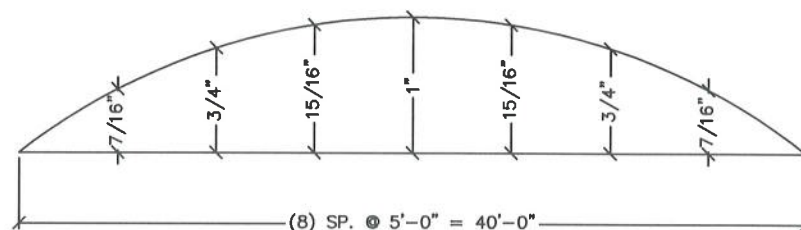
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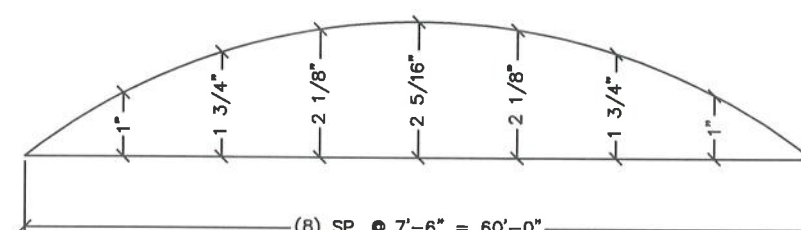
FRAMING PLAN



CAMBER DETAIL
(FULL BRIDGE)



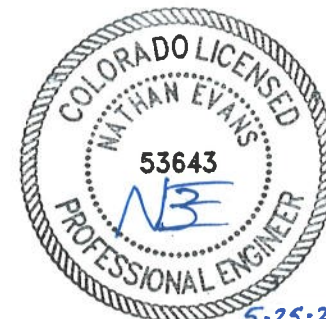
CAMBER DETAIL
(STRINGER SECTION 1)



CAMBER DETAIL
(STRINGER SECTION 2)

MEMBERS	DESCRIPTION
GIRDER	W 36x232
DIAPHRAGM	W 21x44
POST BLOCK	W 14x22
SIDE DAM	P 1/4"

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100'-0" x 30'-0"

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FOUNTAIN, CO

CONTECH
ENGINEERED SOLUTIONS LLC
www.contechES.com
800-338-2047 320-545-9126 320-588-3148 FAX
1715 S. G. STREET, CO. 80031

BIG R
BRIDGE

DATE:	7/24/2020
DESIGNED:	NBE
DRAWN:	RDH
CHECKED:	NBE
APPROVED:	NBE
PROJECT No.:	621715
SEQUENCE No.:	030
SHEET:	3 OF 10

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REVISION PER REVIEWER COMMENTS	DATE	REVISION DESCRIPTION
5/25/2021	E	
5/18/2021	D	
4/5/2021	C	
12/14/2020	B	
9/25/2020	A	
DATE	MARK	

REVISIONS

REVISIONS	DATE	DESCRIPTION
5/25/2021	E	
5/18/2021	D	
4/5/2021	C	
12/14/2020	B	
9/25/2020	A	
DATE	MARK	


REVISIONS

ANCHOR BOLT LAYOUT
(ELEVATIONS ARE AT BEARING SEATS)

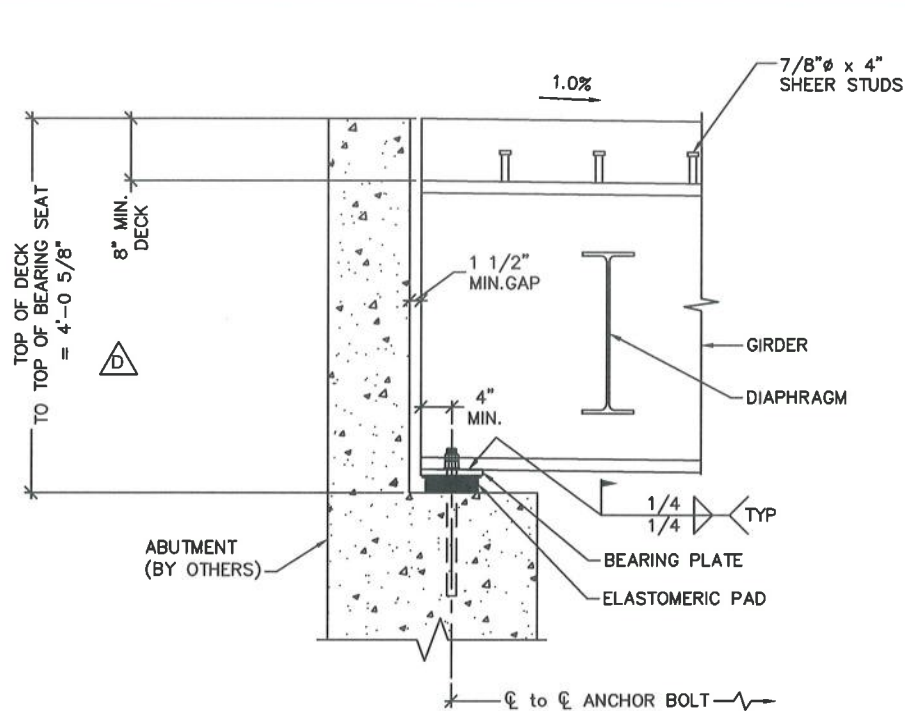
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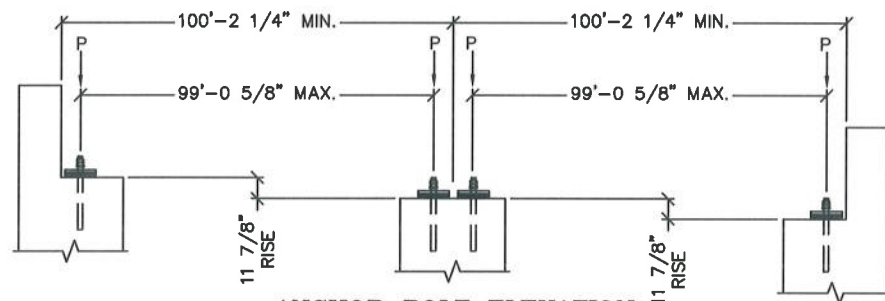
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 CONTECH® ENGINEERED SOLUTIONS LLC www.ContechES.com 16800 Cr 86 Greeley, CO 80631 800-328-2047 320-343-9126 320-556-3148 FAX		BIG R BRIDGE	
DATE: 7/24/2020			
DESIGNED: NBE	DRAWN: RDH		
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PROJECT No.: 621715	SEQUENCE No.: 030		
SHEET: 5 OF 10			

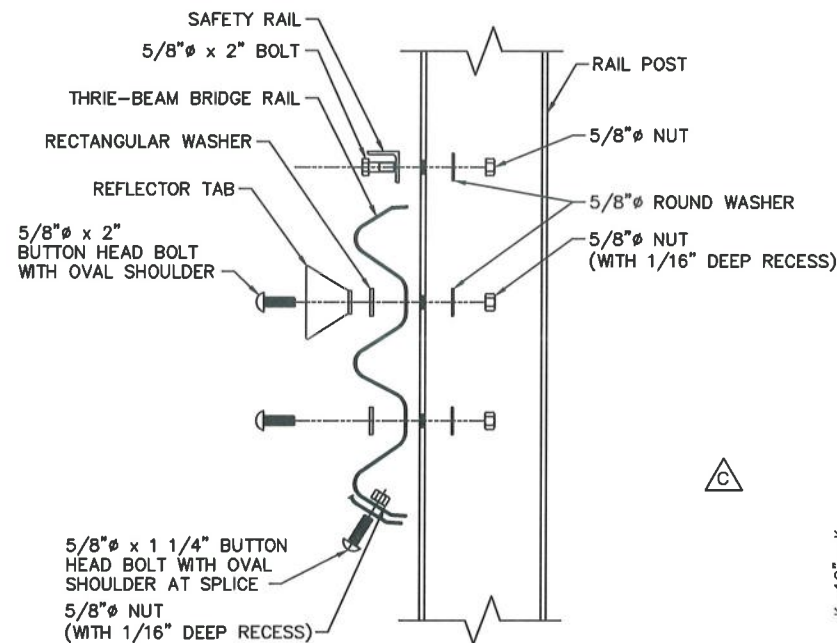
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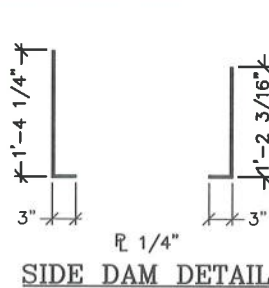


ANCHOR BOLT ELEVATION

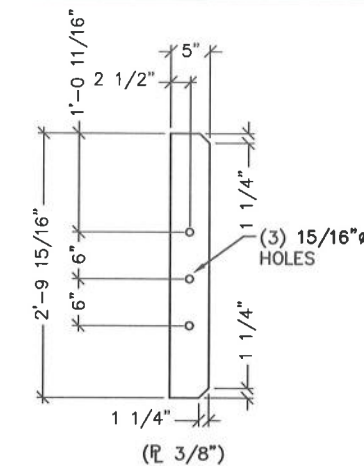


THREE-BEAM RAIL ATTACHMENT DETAIL

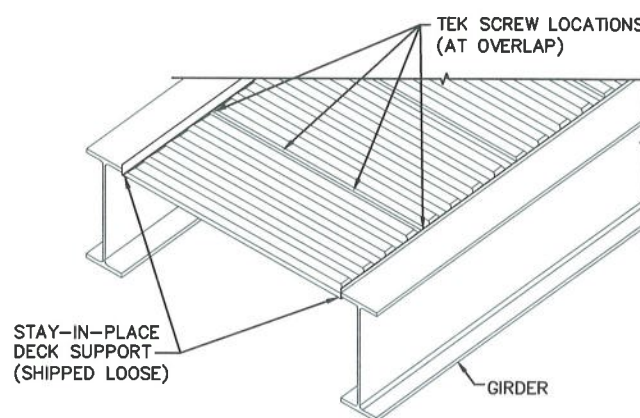
(W 8x18 POSTS)



SIDE DAM DETAIL

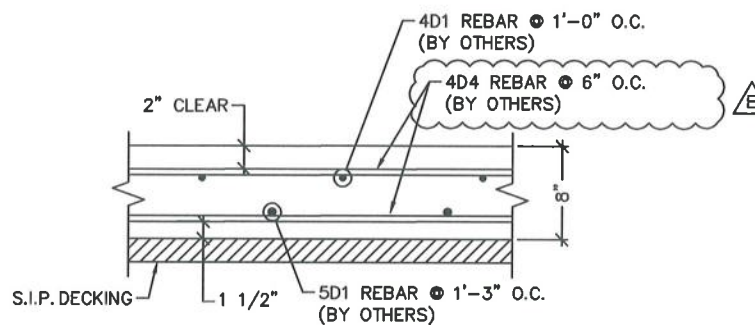


FULL DEPTH DIAPHRAGM CONNECTION PLATE

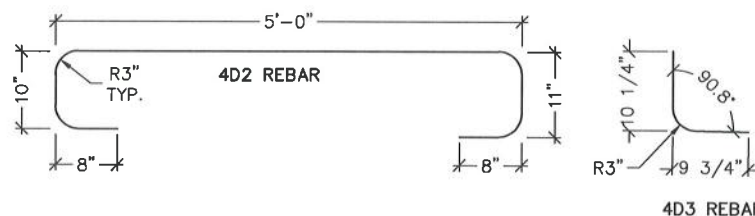


NOTES:
1) STAY-IN-PLACE DECK PANS TO BE ATTACHED IN THE FIELD TO THE SUPPORT ANGLE WITH SELF-TAPPING TEK SCREWS PLACED AT THE FOUR PAN CORNERS AND AT THE 1/3 POINTS ALONG THE LONGITUDINAL OVERLAPS. (4 PER SHEET).

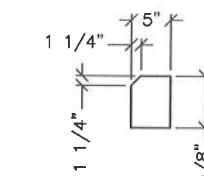
TYPICAL STAY-IN-PLACE DECK MOUNTING DETAIL



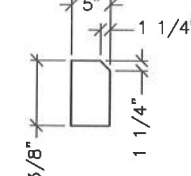
TYPICAL DECK SECTION



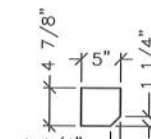
BENT REBAR DETAILS



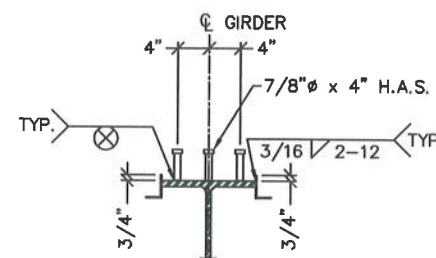
FULL DEPTH CONNECTION PLATE



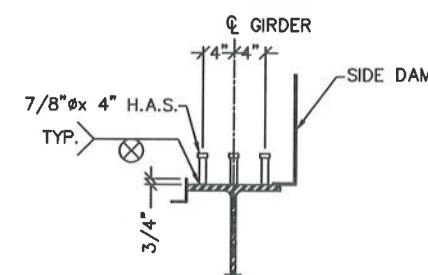
FULL DEPTH CONNECTION PLATE



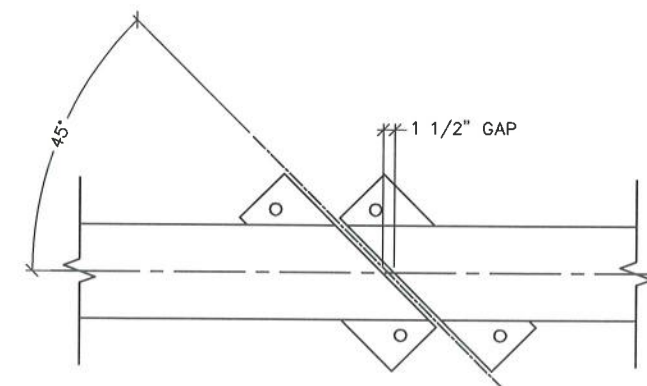
FULL DEPTH CONNECTION PLATE



GIRDER DETAIL



TYPICAL EXTERIOR GIRDER DETAIL



BRIDGE GAP DETAIL

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DRAWING

NOTES:
1. ALL CONCRETE & REBAR BY OTHERS
2. ALL QUANTITIES ARE FOR ONE BRIDGE

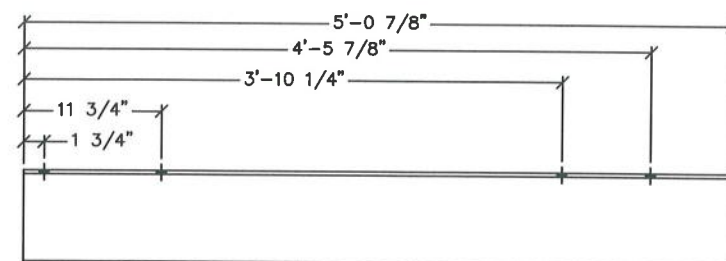
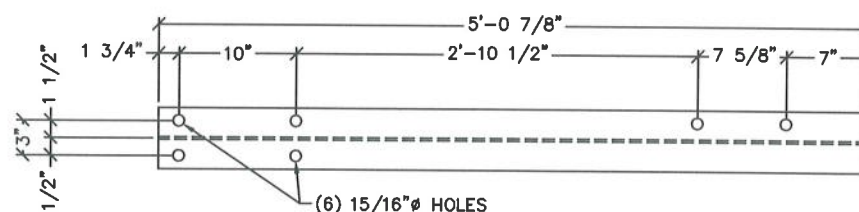
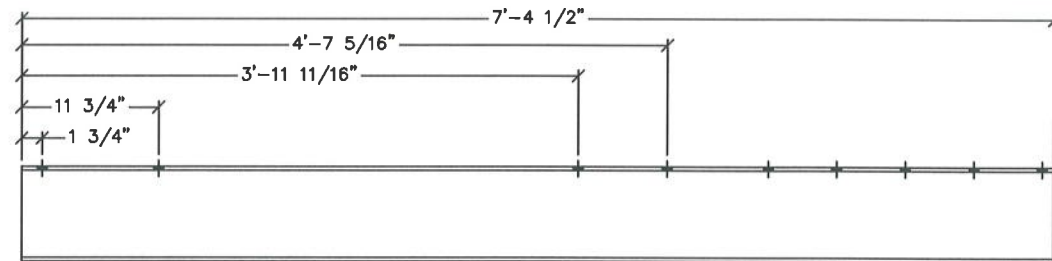
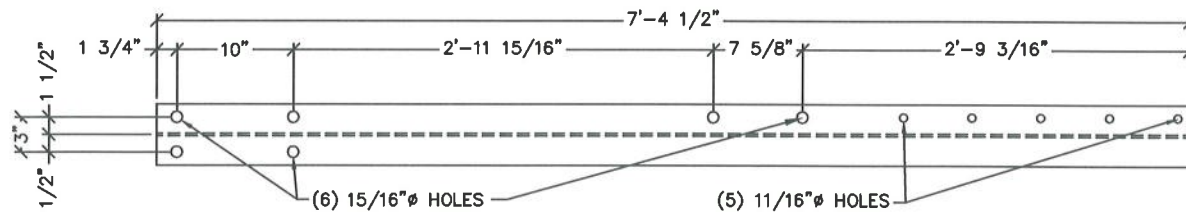
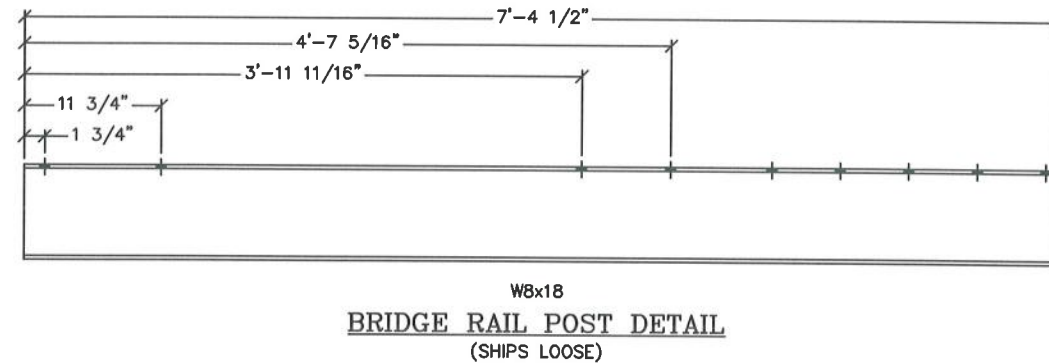
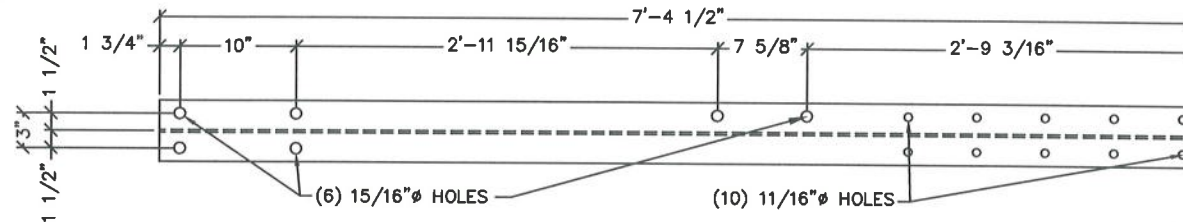
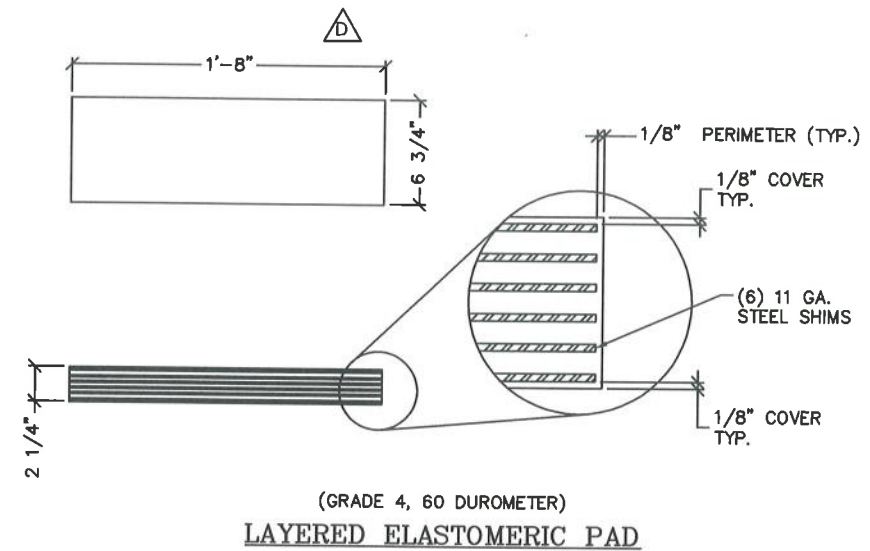
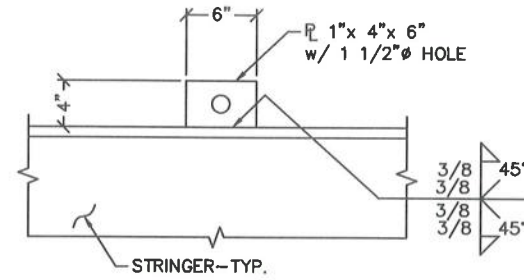
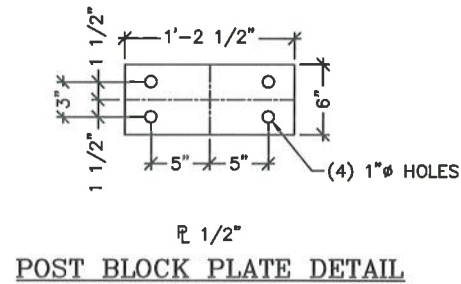
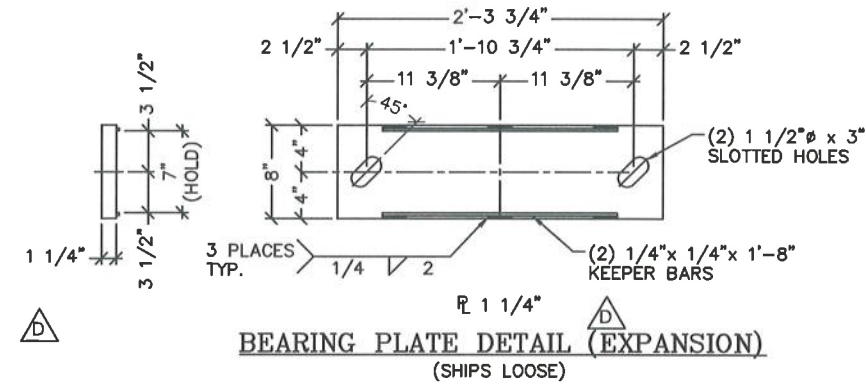
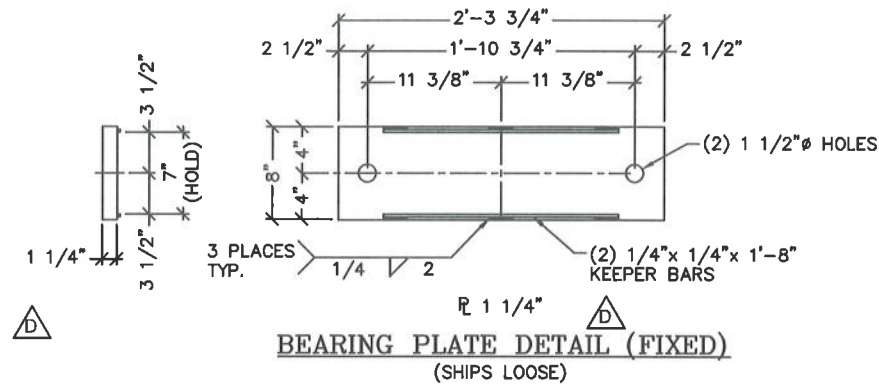
REBAR SCHEDULE				
MARK	TYPE	QUANTITY	LENGTH	REMARKS
4D1	STRAIGHT	38	99'-8"	EPOXY*
4D2	BENT	202	8'-1"	EPOXY
4D3	BENT	202	1'-8"	EPOXY
4D4	STRAIGHT	405	29'-7"	EPOXY
5D1	STRAIGHT	100	99'-8"	EPOXY*

DIGIT PRECEDING LETTER DENOTES SIZE OF REBAR
* SEE CONCRETE NOTE 6 ON PG. 2 FOR SPLICING



100'-0" x 30'-0"				
MESA TOP DRIVE SOUTH BRIDGE				
ELITE PROPERTIES OF AMERICA, INC				
FOUNTAIN, CO				
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PROJECT No.:	621715	SEQUENCE No.:	030	
SHEET:	6	OF	10	

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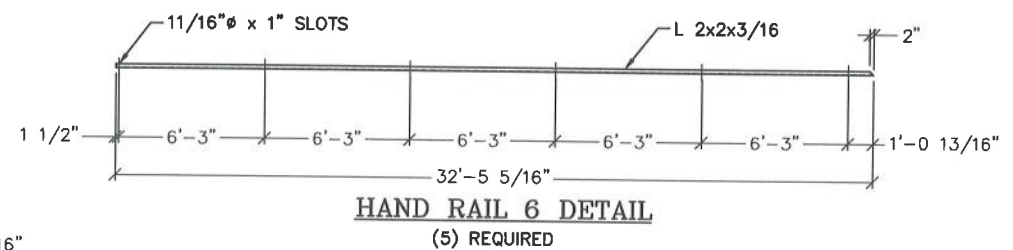
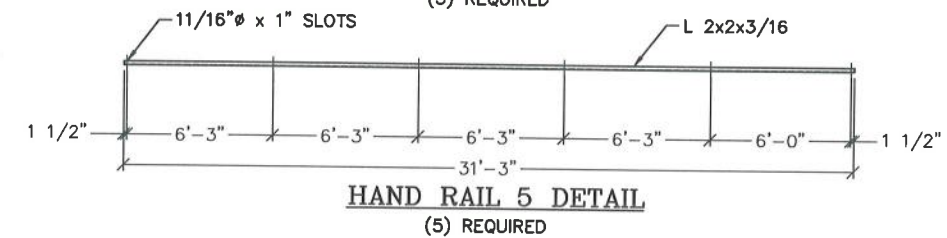
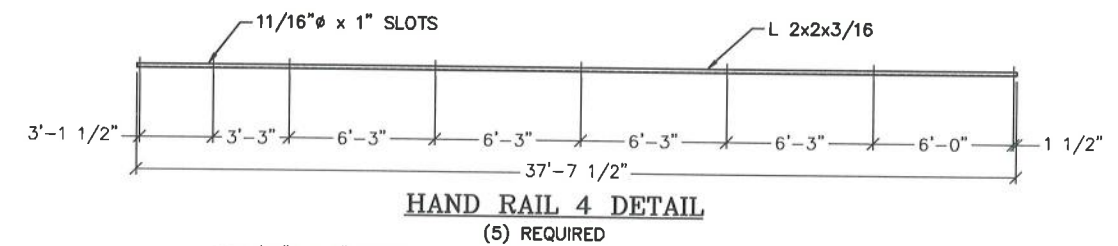
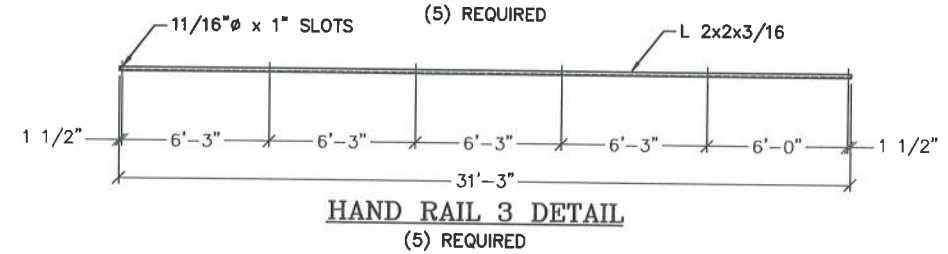
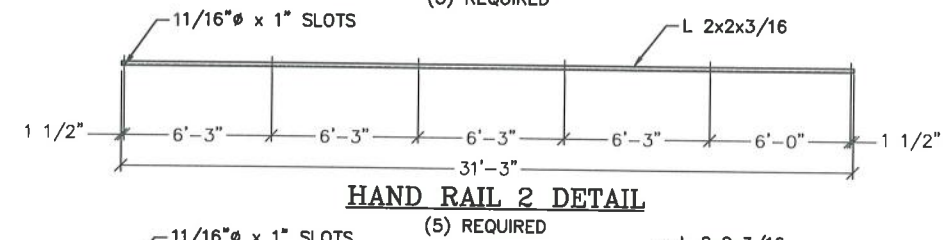
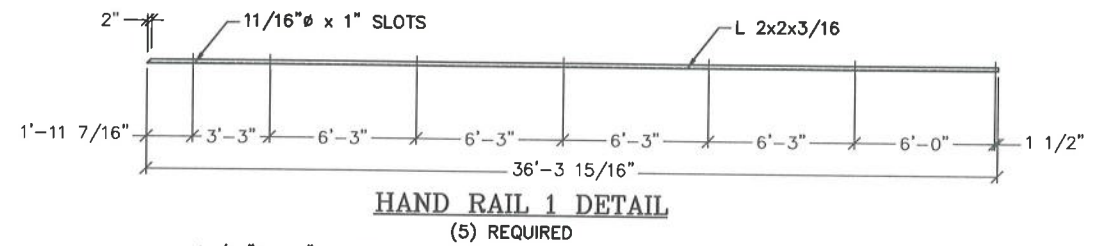
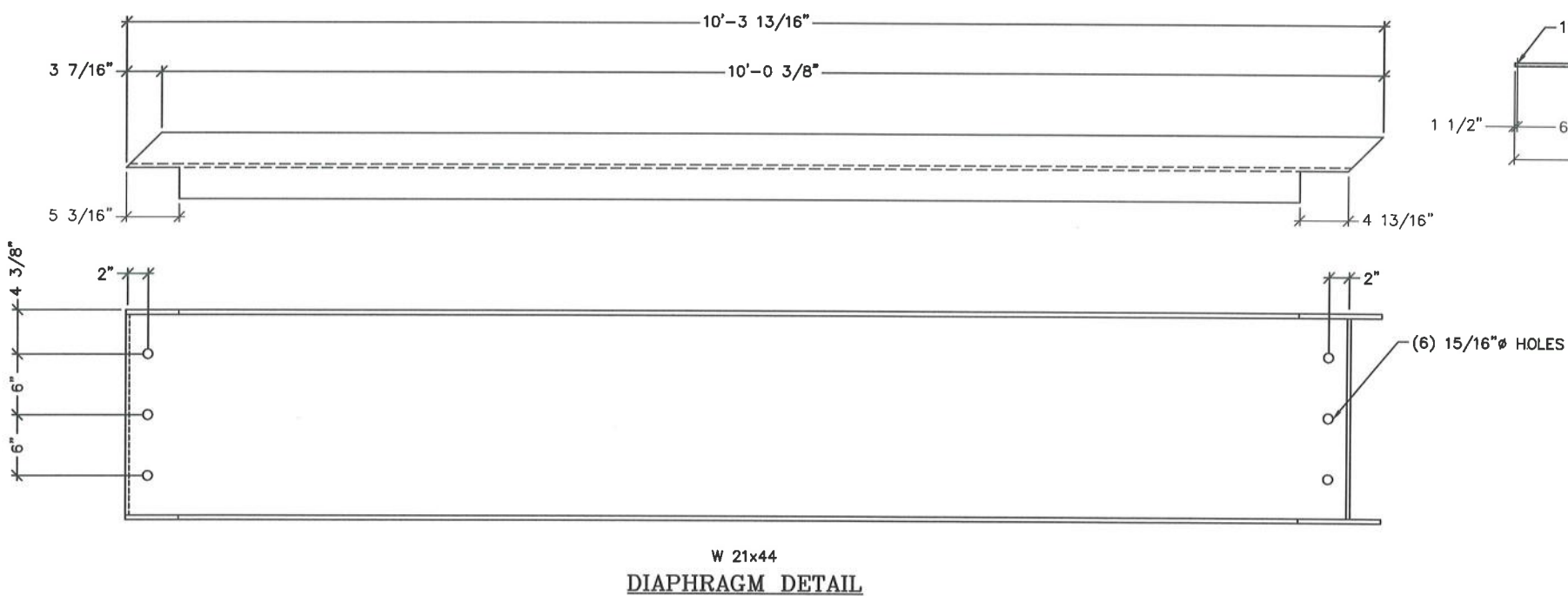
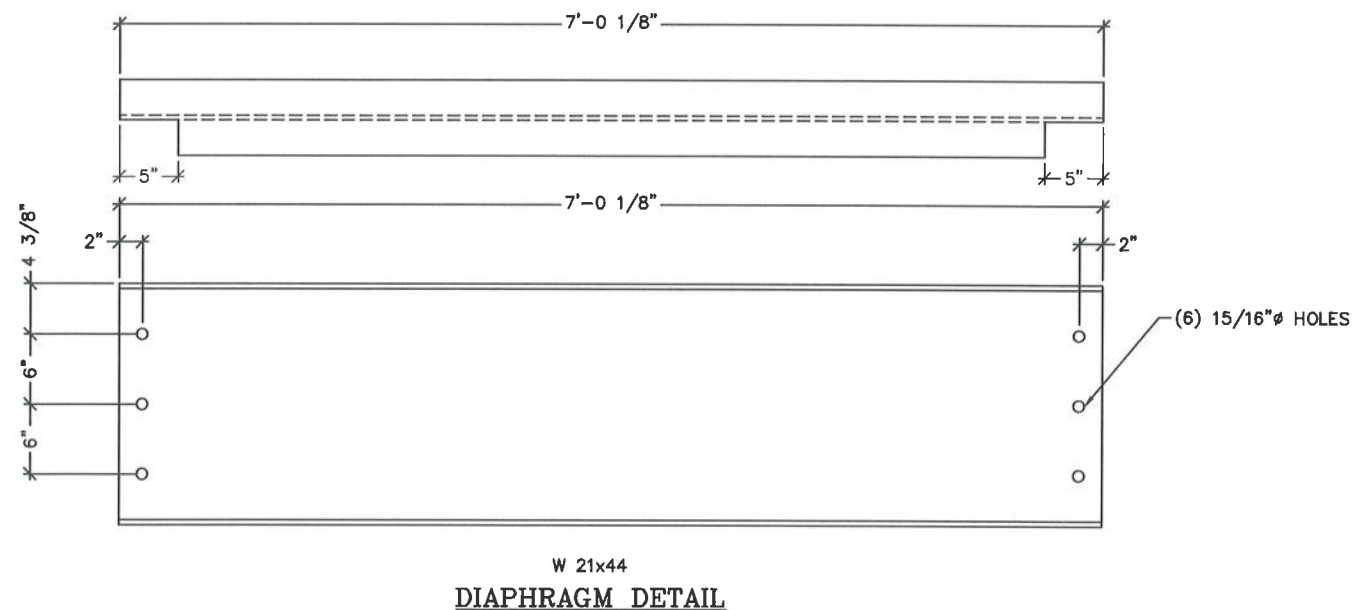
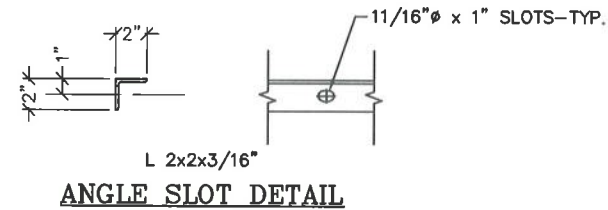
BRIDGE RAIL POST DETAIL
(SHIPS LOOSE)

BRIDGE RAIL POST DETAIL
(SHIPS LOOSE)

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DATE:		7/24/2020			
DESIGNED:		DRAWN:			
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SHEET:		9 OF 10			

Diagram illustrating the PROJECT LAYOUT of the bridge structure, showing the arrangement of spans and cross-bridges.

Key dimensions and labels:

- Overall length: 267'-1 1/2"
- Overall width: 67'-0"
- Width of North Bridges section: 30'-0"
- Width of South Bridges section: 30'-0"
- Labels: NORTH BRIDGES, SOUTH BRIDGES, SPICE (indicating splice locations).



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DESIGNED:	NBE	DRAWN:	RDH
CHECKED:	NBE	APPROVED:	NBE
PROJECT No.:	621715	SEQUENCE No.:	030
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