# 100'-0" x 30'-0" MESA TOP DRIVE SOUTH BRIDGE ELITE PROPERTIES of AMERICA, INC

#### **REVIEW AND APPROVAL**

SHEETS

#### DRAWING INDEX

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APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT		SHEET NO.	DESCRIPTION		
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REVIEWED BY:				פע פבו ב	ASING CONTECH ENGINEERED SOLUTIONS TO		
COMPANY:				FABRICATE, CUSTOMER ACKNOWLEDGES CONTECH SUBMITTAL PLANS HAVE BEEN REVIEWED BY ALL RELATED			
DATE:				SUBMIT AL PLANS HAVE BEEN REVIEWED BY ALL RELATED PARTIES TO THE PROJECT AND THEY ARE DIRECTING			

DATE: PARTIES TO THE PROJECT AND THEY ARE DIRECTING CONTECH TO FABRICATE ACCORDING TO THE APPROVED PLANS. PLANS.

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	MESA TOP DRIVE SOUTH BRIDGE ELITE PROPERTIES of AMERICA, INC FOUNTAIN, CO
53643 SOLAN EVALOS 53643 AB AB AS SOLAL ENGINE	A DATE: 7/24/2020 DESIGNED: NBE NBE NBE NBE NBE NBE NBE NBE
CERTIFIED FABRICATOR	NBE         NBE           PROJECT No.:         SEQUENCE No.:           621715         010           SHEET:         010
	1 of 10

CONTECH CONTRACT DRAWING

### GENERAL NOTES:

- 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
    - ASTM A847 WEATHERING STEEL TUBES
  - GRADE 4, 60 DUROMETER b. ELASTOMERIC PADS:
  - c. SHEET PILING: ASTM A929 (GALV)
  - STRUCTURAL BOLTS: ASTM F3125 GRADE A325 (TYPE 1) ASTM A307 (GALV)
  - d. GUARDRAIL BOLTS:
- 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<sub>e</sub> = 0.125
    - S<sub>1</sub> = 0.035
    - PERIOD OF BRIDGE = Tm = 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 YF NECESSARY TO ALLOW SMOOTH INSTALLATION OF THE BOLT. YF 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

<ul> <li>a) CONCRETE: fc = 4000 psi At 28 DAY AIR CONTENT OF 365 +0,1% UNIT WEIGHT OF 145 PCF MAX</li> <li>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 CONTECH.</li> <li>5. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.</li> <li>6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:</li> </ul>	MAT	ERIAL SUPPLY, T	ESTING AND INSTALLATION	N ARE OUTSIDE OF COM	NTECH'S RESPON	ISIBILITY.	2	
3. MINIMUM MATERIAL REQUIREMENTS:       Substructure Plans call out         a) CONCRETE:       If c = 4000 psi at 28 DAY         WIR CONTRENT OF 38 + 11%       with an f'c = 4500 psi         A. THE USE OF EPOXY COATED REBAR, GALVANZED 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 CONTRECH.         5. THE CONTRACT OR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM         DECK BEFORE CONCRETE IS PLACED.         6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER         LONGITUDINAL BAR. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:         Substructure plans         CONCRETE (145 PCF)       CONCRETE (120 PCF)         #4       5         #5       56*         #45       58*         #6       46*         #7       58*         #8       79*         #8       79*         #9       98*         108*       108*	WITH CON STAI PRO	HTHE PROJECT ( ITRACT DOCUME NDARD SPECIFIC JECTS (FP-14) SH	CONTRACT DOCUMENTS, NTS THE REQUIREMENTS ATIONS FOR CONSTRUCTI IALL BE USED, FP-14 CAN I	IF THESE ITEMS ARE NO OF SECTION 552 OF FEI ION OF ROADS AND BRI	OT COVERED IN T DERAL HIGHWAY DGES ON FEDER	HE PROJECT ADMINISTRATION		
Unit Weight Or 135 PCF Max       With aftric C = 4500 pSi         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 CONTECH.         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 SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:         Substructure plans call out CDOT Deck BEFORE CONCRETE (145 PCF)         UMAKE WEIGHT LONGITUDINAL BAR. STZE         MORMAL WEIGHT LONGITUDINAL BAR. TREQUIRED SPLICE LENGTHS ARE AS FOLLOWS:         Substructure plans call out CDOT Concrete Class D (Bridge)         MOTE: ANCHOR BOLTS ARE SHEAR AND TENSION CONSIDERATIONS REI #5         #6       46"         #7       58         #8       75'         #9       96"         #9       96"	3. MINIMU	M MATERIAL REC	QUIREMENTS: fc = 4000 psi AT 28					· 0.
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 CONTECH. 5. THE CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH. 5. THE CONTRACT OCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH. 5. THE CONTRACT OCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH. 5. THE CONTRACT OCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH. 5. THE CONTRACT OCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH. 5. THE CONTRACT OCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH. 6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS: 5. UNORMAL WEIGHT LIGHT WEIGHT WORK TO CONCRETE (145 PCF) CONCRETE (120 PCF) #4 35" 44" #5 39" 444" #6 46" 53" 66" #7 55" 66" #8 75" 86" #9 96" 108" *NOTE: ANCHOR AGE OR ANY CONSIDERATIONS RE ANCHORAGE OR ANY CONSIDERED AND AF REQUIREMENTS, THA'		SINFORCHING:	UNIT WEIGHT OF 1	45 PCF MAX	with an f	c = 4500 psi	<	] 
DECK BEFORE CONCRETE IS PLACED.         6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:         Substructure plans call out CDOT Concrete Class D (Bridge)         BAR SIZE       NORMAL WEIGHT CONCRETE (145 PCF)         #4       31"         #5       39"         #6       46"         #7       58"         #8       75"         #9       96"         108"		TECTION OF THE PROJECT CONTF	REBAR SHALL BE DONE A	S NEEDED FOR LOCAL NOT THE RESPONSIBIL	CONDITIONS OR	AS REQUIRED PER	×	
BAR SIZE       NORMAL WEIGHT CONCRETE (145 PCF)       LIGHT WEIGHT CONCRETE (120 PCF)       Concrete Class D (Bridge)       ANCH Concrete Class D (Bridge)         #4       31"       35"         #5       39"       44"         #6       46"       53"         #7       58       66"         #8       76"       86"         #9       96"       108"	DECI 6. LONGIT	K BEFORE CONC	RETE IS PLACED, AY BE SPLICED IF REQUIRE	ED, SPLICES SHALL BE S				•
BAR SIZE       NORMAL Weight       Light weight       Concrete (145 PCF)       CONCRETE (120 PCF)       (Bridge)         #4       31"       35"       #       #       ANCHOR BOLTS ARE         #5       39"       44"       ANCHOR BOLTS ARE       SHEAR AND TENSION         #6       46"       53"       Gen"       CONSIDERATIONS REF         #7       58"       66"       ANCHOR BOLTS ARE       STRENGTH, CONCRET         #8       76"       86"       ANCHORAGE OR ANY       CONSIDERATIONS REF         #9       96"       108"       CONSIDERED AND AF       LARGER DIAMETER B	LON	GHUDINAL BAR.			<i>}</i>	call out CDOT		ANCH
#4         31"         35"           #5         39"         44"           #6         46"         53"           #7         58"         66"           #8         78"         86"           #9         96"         108"		BAR SIZE			-)		50	$\sim$
"""     ANCHOR BOLTS ARE       #6     46"       53"     53"       #7     58"       66"     CONSIDERATIONS REG       #8     76"       #9     96"       108"     CONSIDERED AND AF       LARGER DIAMETER B       REQUIREMENTS, THA		#4	31"	35"	K	(		
#6     46"     53"       #7     58     66"       #8     76"     86"       #9     96"     108"		#5	39"	44"	$\neg$			
#7     58"     66"     CONSIDERATIONS REG AND TENSION, PULLO STRENGTH, CONCRET ANCHORAGE OR ANY CONSIDERED AND AF LARGER DIAMETER B REQUIREMENTS, THA'		#6	46"	53"	-)			
#8     75"     86"       #9     96"     108"       STRENGTH, CONCRET     ANCHORAGE OR ANY CONSIDERED AND AF LARGER DIAMETER B REQUIREMENTS, THA		#7		66"			CONSIDERATI	IONS REC
#9 96" 108" CONSIDERED AND AF		#8	78"	86"	$\prec$			
LARGER DIAMETER B REQUIREMENTS, THA		#9	96"	108"	-K			
	,		(u	·····	3		LARGER DIAN	METER B

1. CONTECH IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK, ALL ISSUES RELATED TO

LIFTING WEIGHTS

2

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

"P": VERTICAL LOAD

CONCRETE NOTES

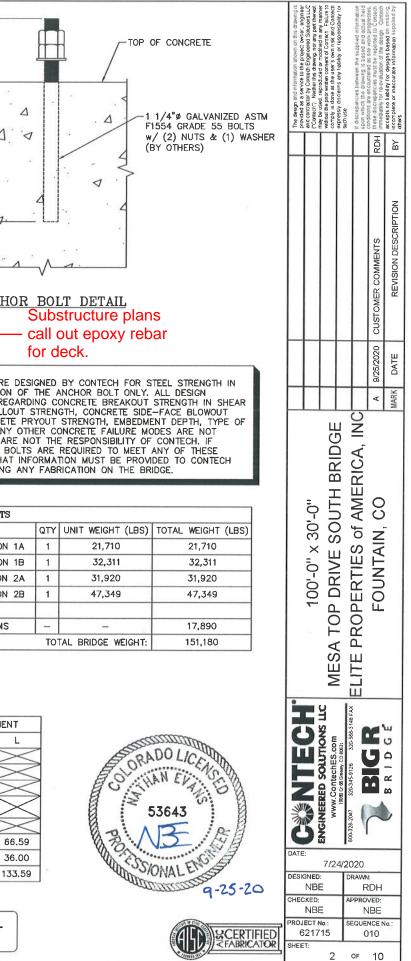
"H": HORIZONTAL LOAD TRANSVERSE TO THE STRUCTURE "L": HORIZONTAL LOAD LONGITUDINAL TO THE STRUCTURE

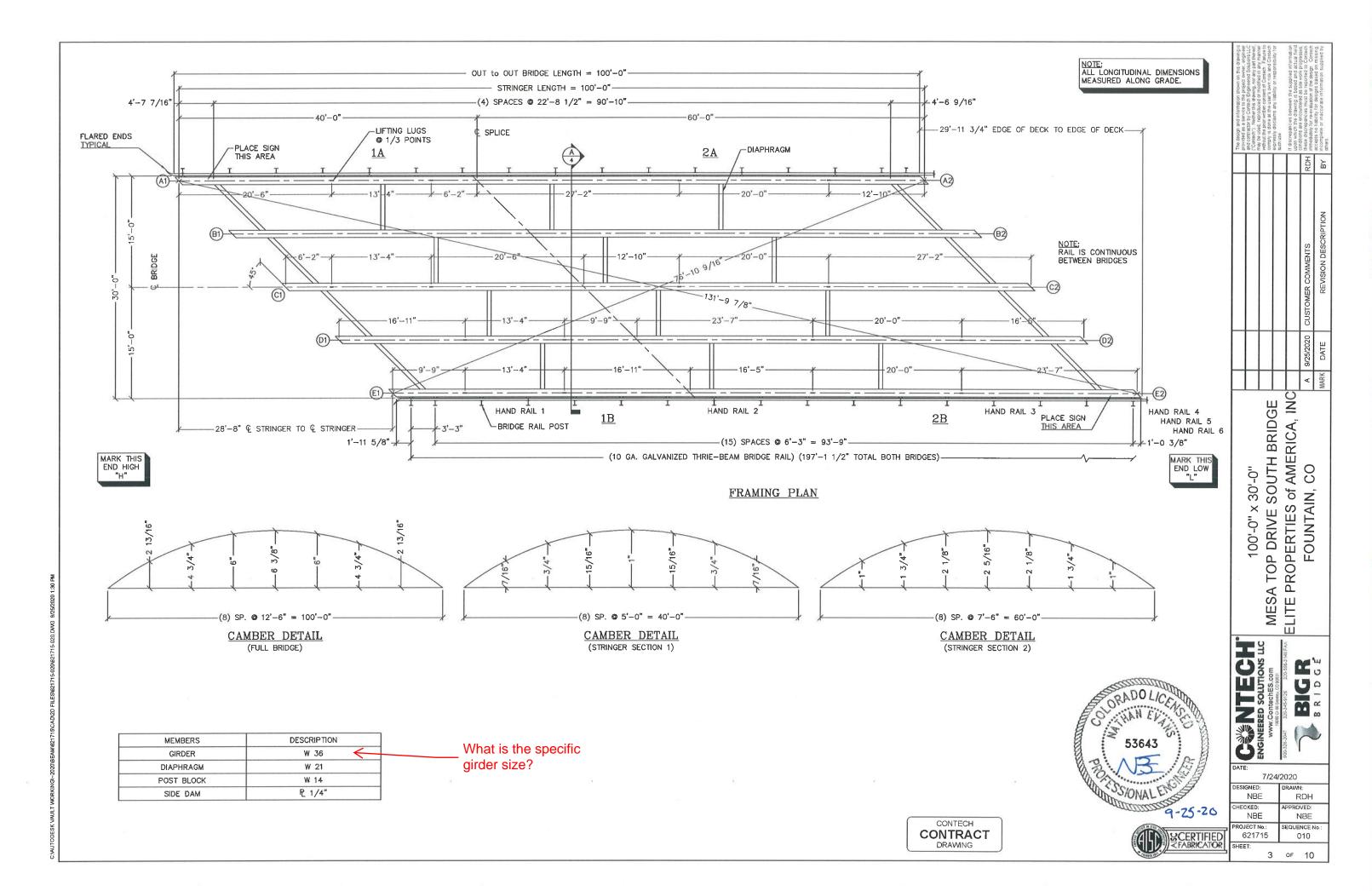
El Paso County.

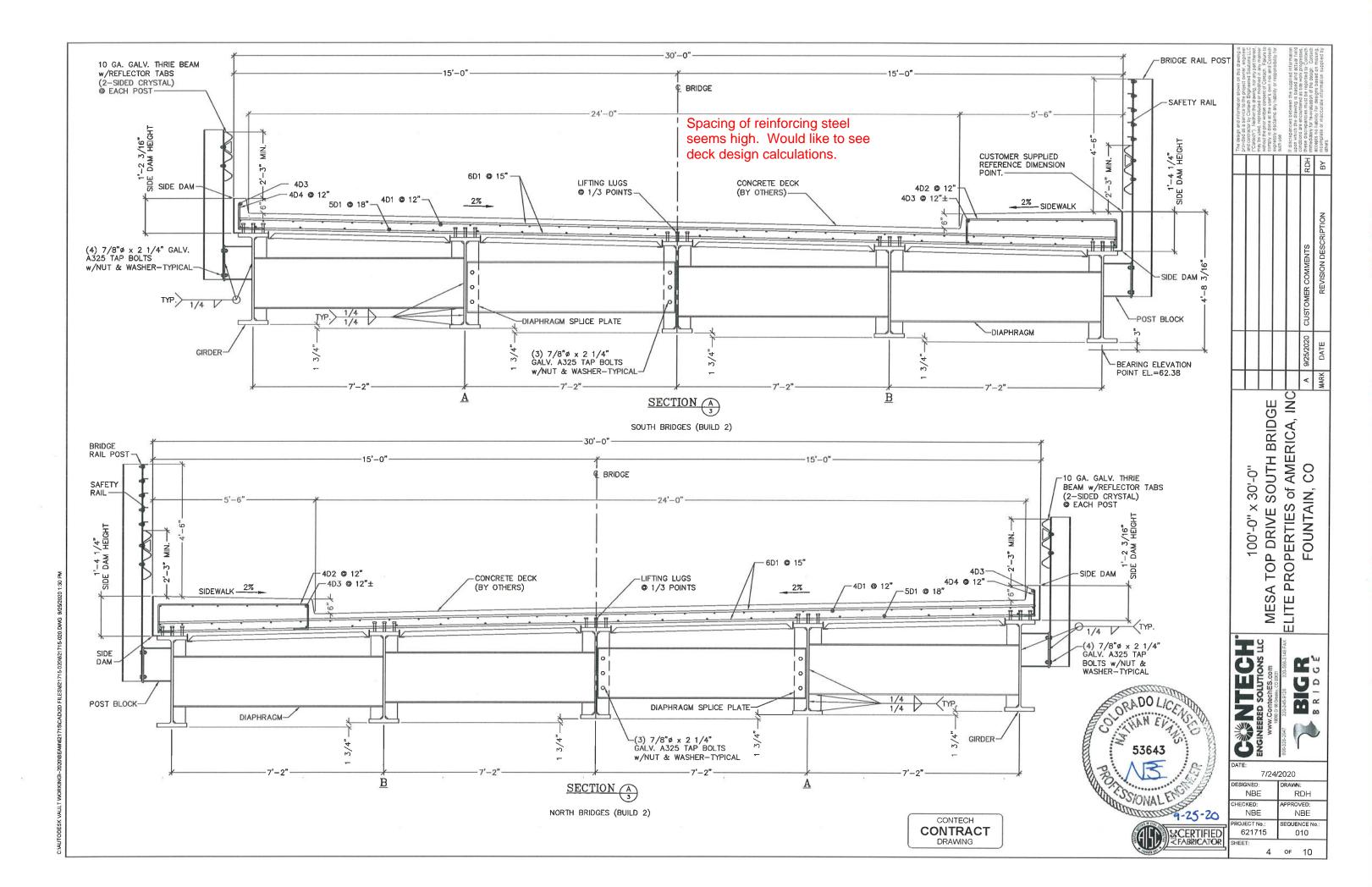
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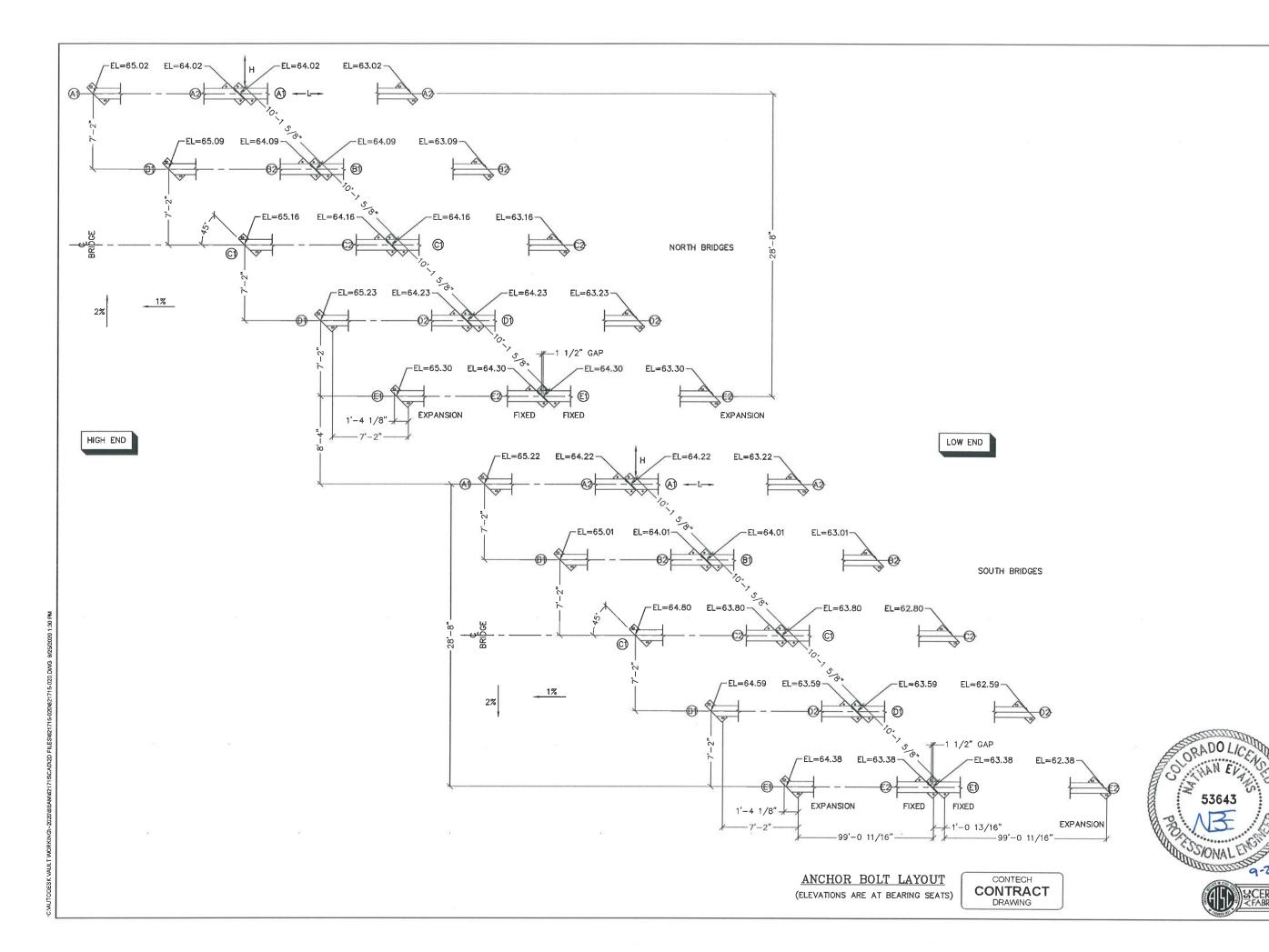
WIND LOAD UPLIFT ASSUMES FULL 20 PSF TO DECK AREA IS APPLIED TO ONE STRINGER LINE









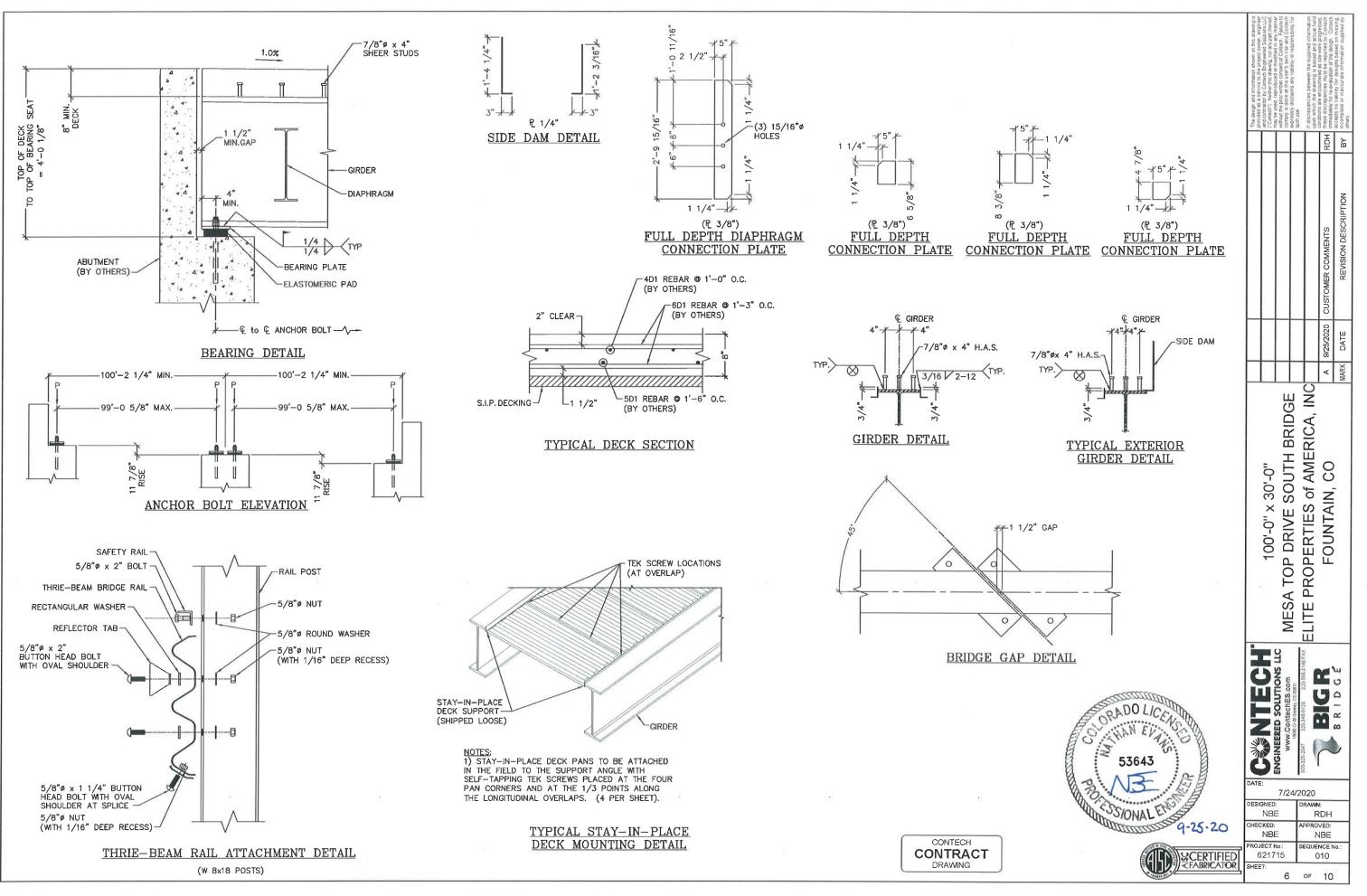


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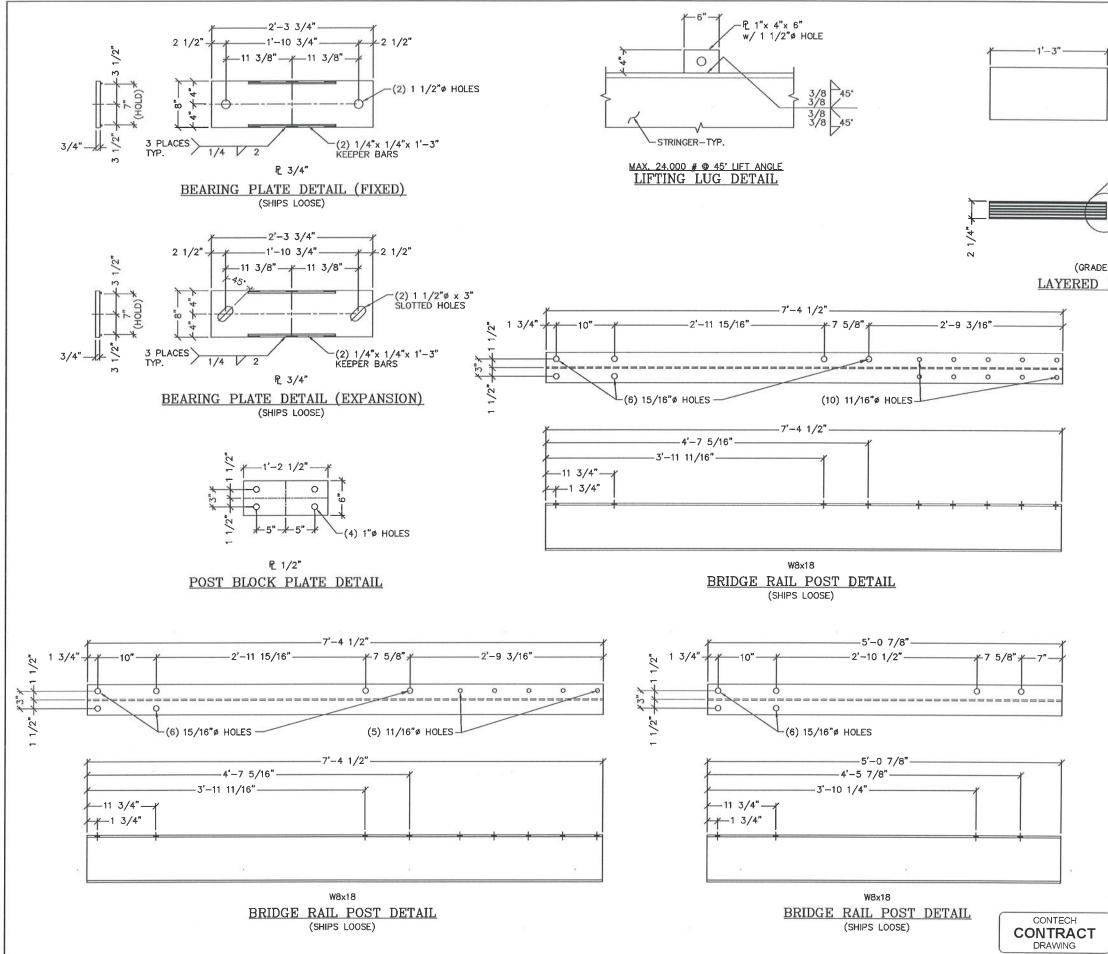
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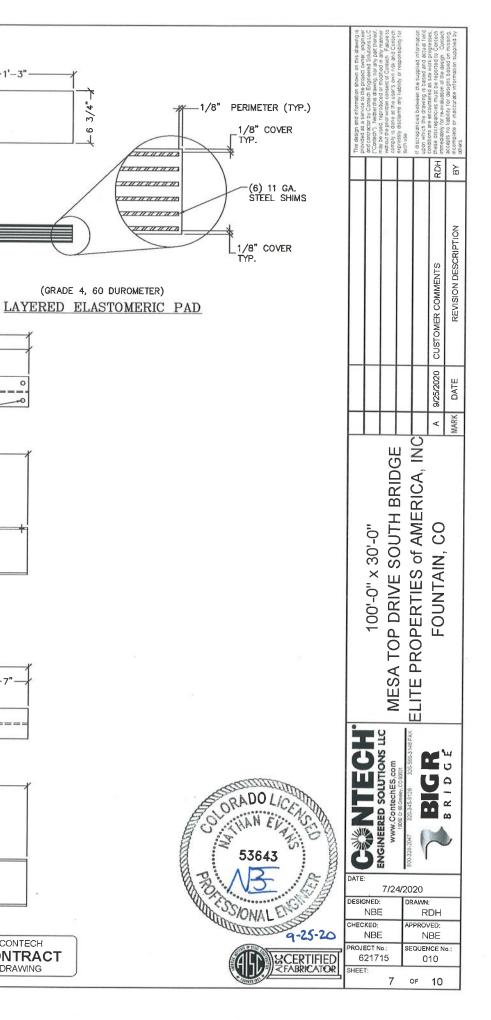
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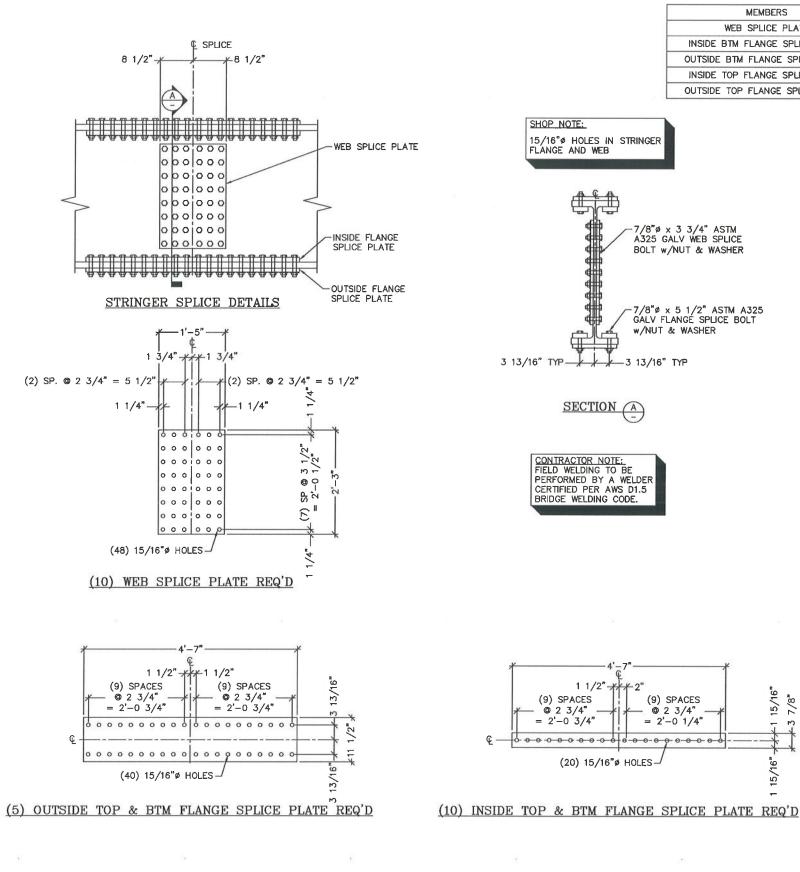
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K VAULT WORKING-2020/BEAM/221715/CAD/2D FILES/621715-020







1 1/2" +++ 2"

(9) SPACES

- @ 2 3/4" = 2' - 0' 1/4''

-7/8"ø x 3 3/4" ASTM A325 GALV WEB SPLICE

BOLT W/NUT & WASHER

-7/8"ø x 5 1/2" ASTM A325 GALV FLANGE SPLICE BOLT

15/16"

15/16"

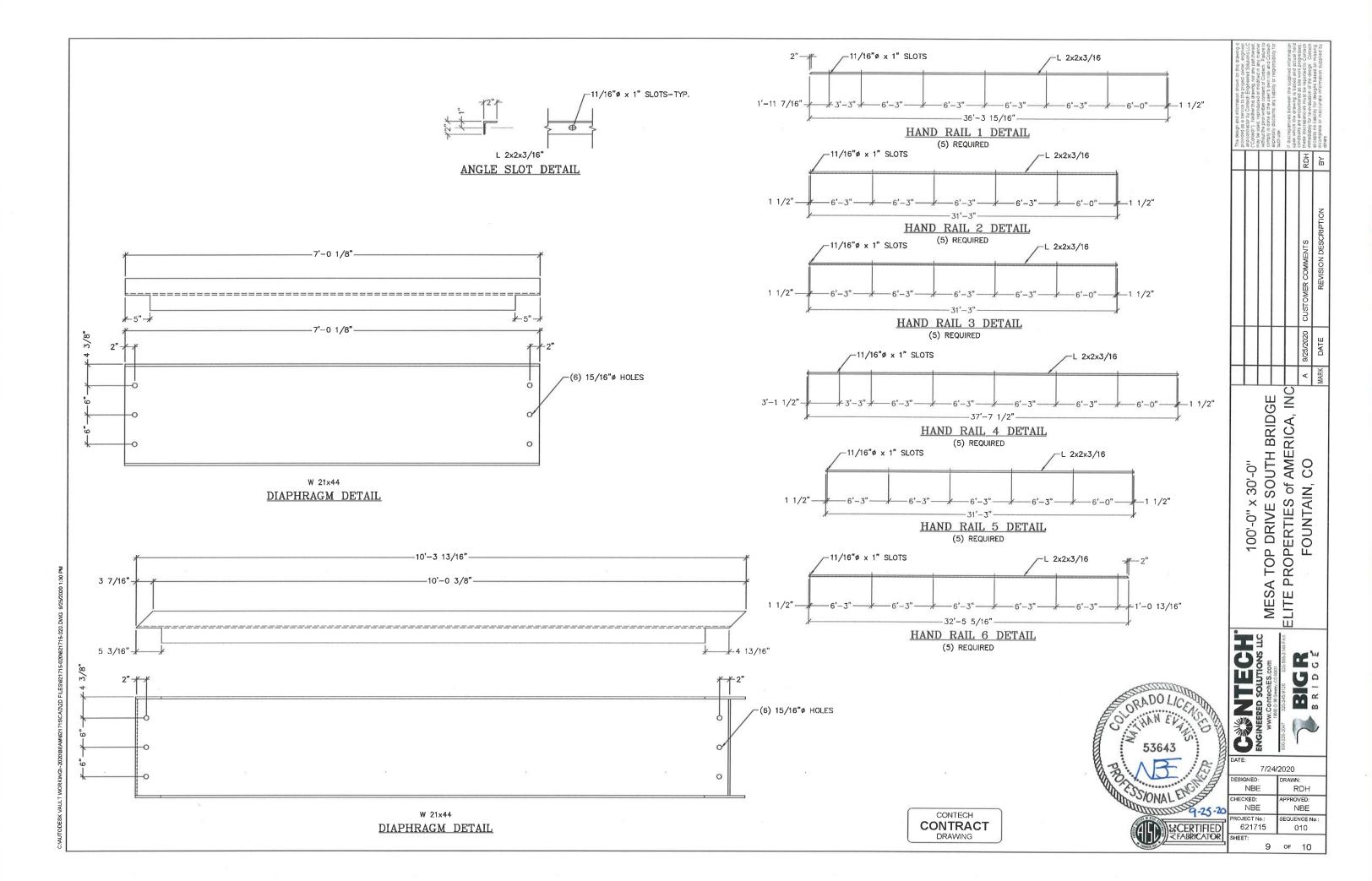
7/8"

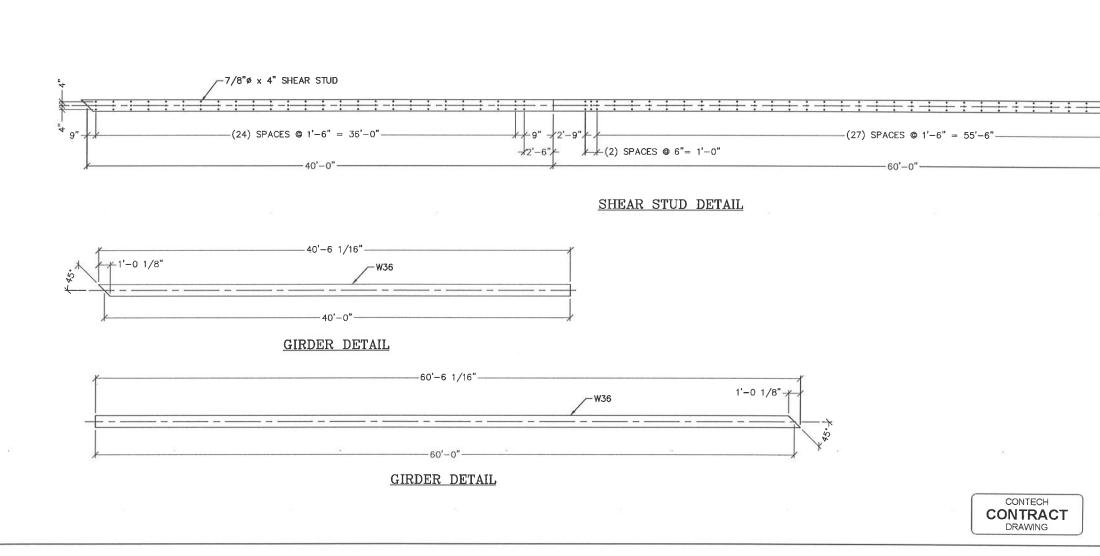
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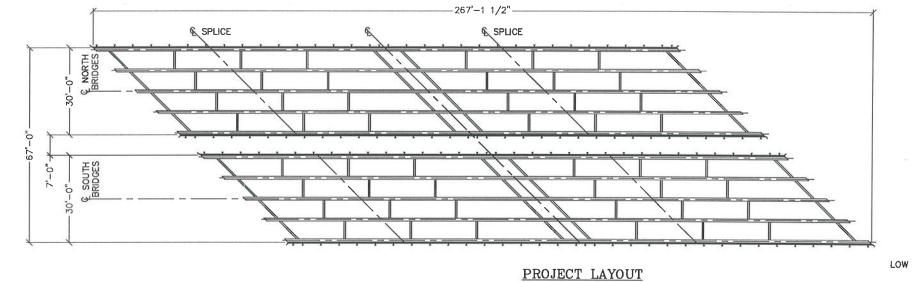
w/NUT & WASHER

MEMBERS	QTY	THICKNESS	SIZE	HOLES	BOLTS w/NUT & WASHER	BOLT QTY
WEB SPLICE PLATE	10	3/4"	1'-5" x 2'-3"	15/16"	7/8"ø x 3 3/4" A325 GALV	240
INSIDE BTM FLANGE SPLICE PLATE	10	1 1/4"	3 7/8" x 4'-7"	15/16"	-	-
OUTSIDE BTM FLANGE SPLICE PLATE	5	1"	11 1/2" x 4'-7"	15/16"	7/8"ø x 5 1/2" A325 GALV	200
INSIDE TOP FLANGE SPLICE PLATE	10	1 1/4"	4 3/8" x 4'-7"	15/16"	-	-
OUTSIDE TOP FLANGE SPLICE PLATE	5	1"	1'-0" x 4'-7"	15/16"	7/8"ø x 5 1/2" A325 GALV	200

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9/25/2020 CUSTOMER COMMENTS DATE REVISION DESCRIPTION
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MESA TOP DRIVE SOUTH BRIDGE ELITE PROPERTIES of AMERICA, INC FOUNTAIN, CO
A DATE: 7/24/2020 DATE: 7/24/2020 DATE: 7/24/2020 DESIGNED: NBE PROJECT No: 621715 010



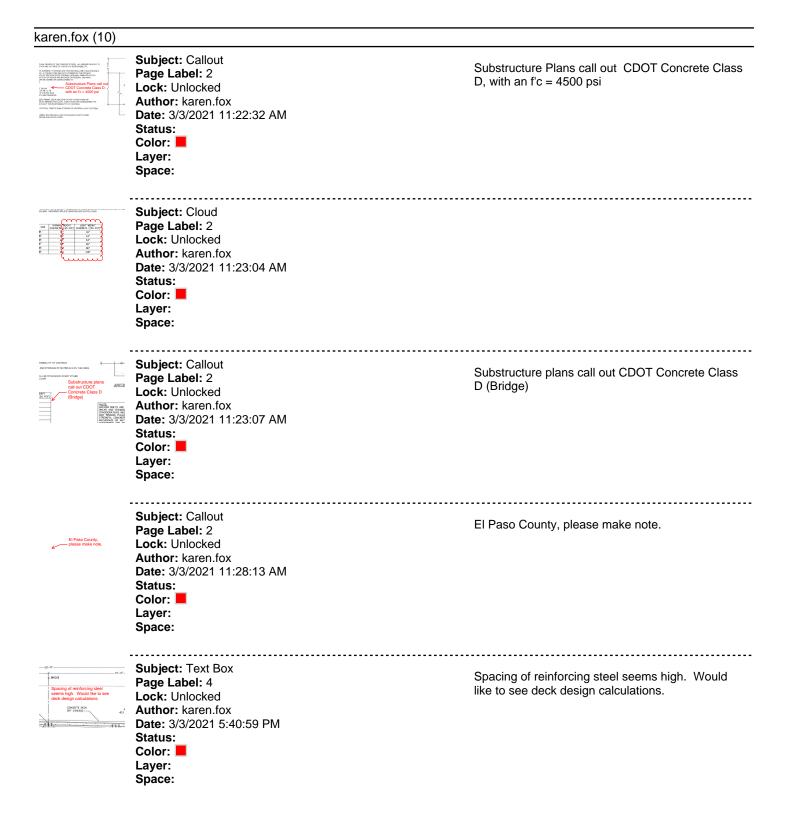




HIGH END

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	DATE: DESIGNED: NBE PROJECT NO 62171 SHEET:	7/24/20 DI AF 5.: SE 5.			

## Contech Superstructure Plans\_r1.pdf Markup Summary



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the second	Subject: Callout Page Label: 2 Lock: Unlocked Author: karen.fox Date: 3/3/2021 8:58:42 AM Status: Color: Layer: Space:	Substructure plans call out epoxy rebar for deck.