

ITEM	EXTENSION	TOTAL	UNIT	ESTIMATED QUANTITIES	ABUT.	PIERS	SUPER.	GEN.	SHEET #
		01/BRF/10/CCEO		DESCRIPTION					
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					2/11
503	11101	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					2/11
503	21300	LS	LS	UNCLASSIFIED EXCAVATION					
505	11100	LS	LS	PILE DRIVING EQUIPMENT MOBILIZATION					
507	00100	965	FT	STEEL PILES HP10X42, FURNISHED	965				
507	00150	890	FT	STEEL PILES HP10X42, DRIVEN	890				
507	93300	15	EACH	STEEL POINTS OR SHOES	15				
509	10000	18487	LB	EPOXY COATED REINFORCING STEEL	13841		4646		
510	10000	12	EA	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	12				
511	31611	39	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN			39		2/11, 10/11
511	43510	121	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	121				
512	10050	96	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	75		21		
515	12030	6	EA	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48 (47'-8")			6		
516	13400	16	SF	3/4" PERFORMED EXPANSION JOINT FILLER	16				
516	13901	33	SF	2" PERFORMED EXPANSION JOINT FILLER, AS PER PLAN	33				2/11
516	14020	59	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	59				
516	41100	12	EA	1/8" PERFORMED BEARING PAD, TYPE CDP			12		
516	44000	24	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (7"X7"X1.5855" AND 8"X8"X BEVELED LOAD PLATE)			24		8/11
517	72306	102	FT	RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS)			102		
518	20000	42	SY	PREFABRICATED GEOCOMPOSITE DRAIN	42				
518	22300	114	FT	SPECIAL - STEEL DRIP STRIP			114		
530	00600	1200	SF	SPECIAL - STRUCTURES: WELDED DEFORMED WIRE CONCRETE REINFORCEMENT			1200		2/11, 10/11
613	41200	506	CY	LOW STRENGTH MORTAR BACKFILL				506	7/11

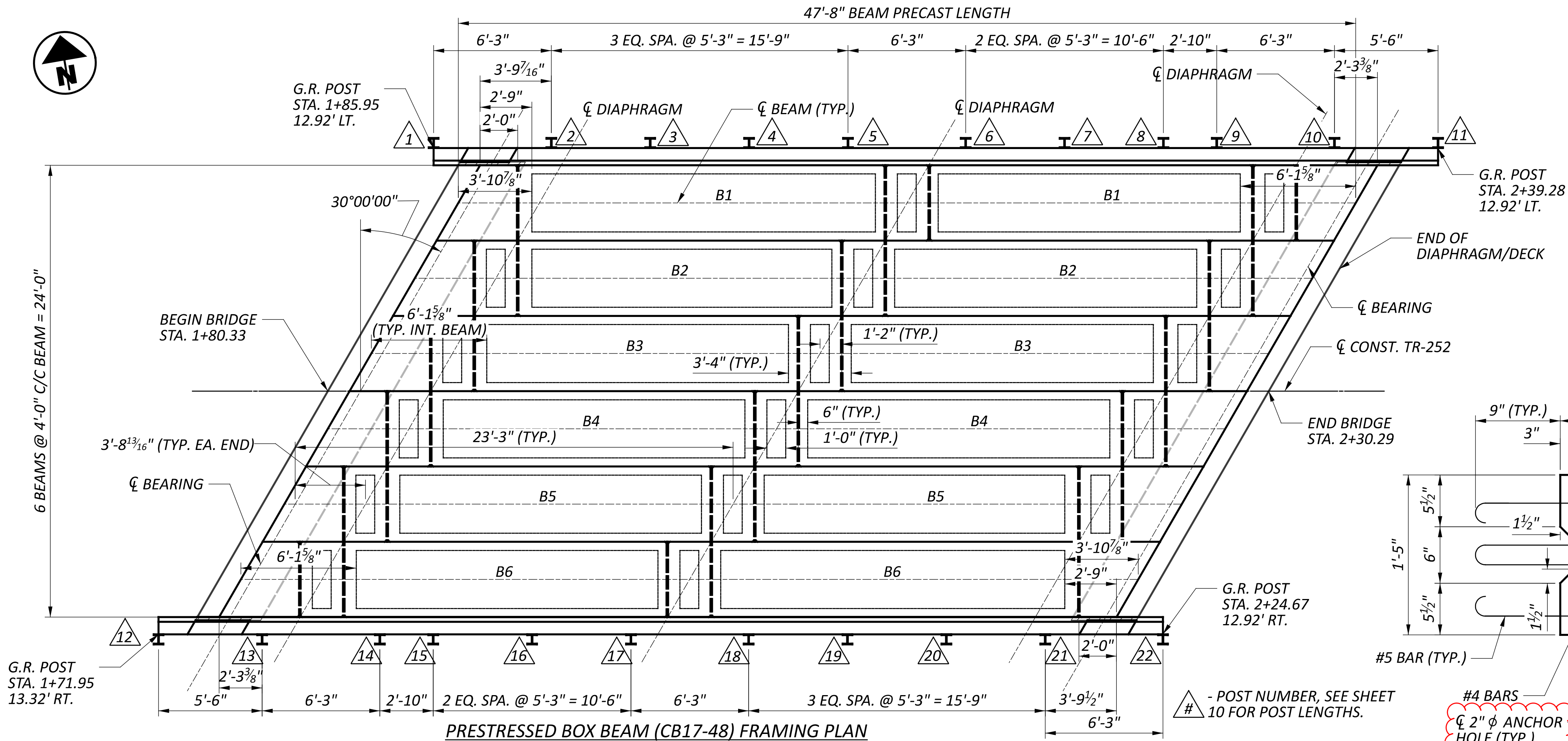
ESTIMATED QUANTITIES
 BRIDGE NO. COS-TR252-0.01
 TR-252 OVER EVANS CREEK

SFN
 1631830
 DESIGN AGENCY

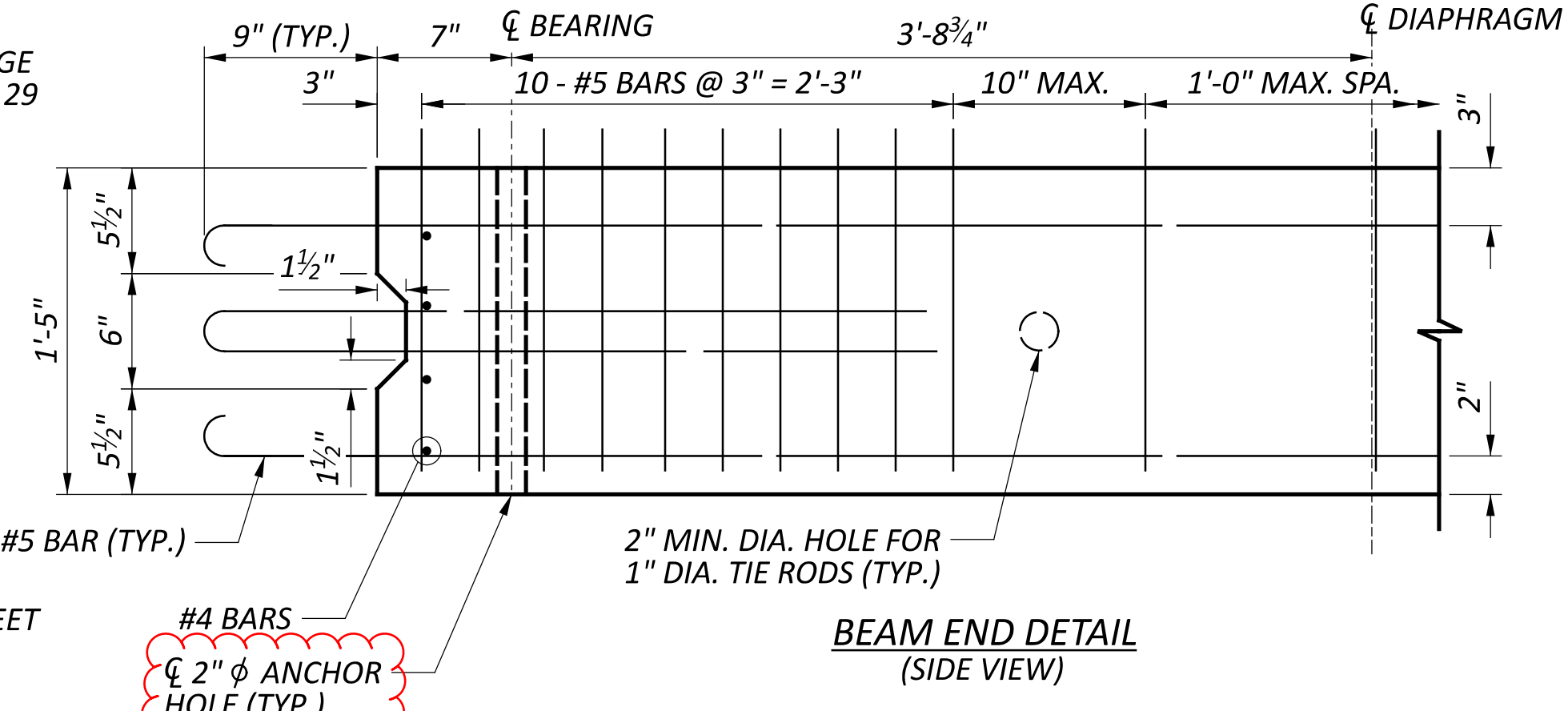
Jacobs

DESIGNER: MM CHECKER: MJR
 REVIEWER: RLC 10-13-23
 PROJECT ID: 117980
 SUBSET: 3 TOTAL: 11
 SHEET: P.13 TOTAL: 31

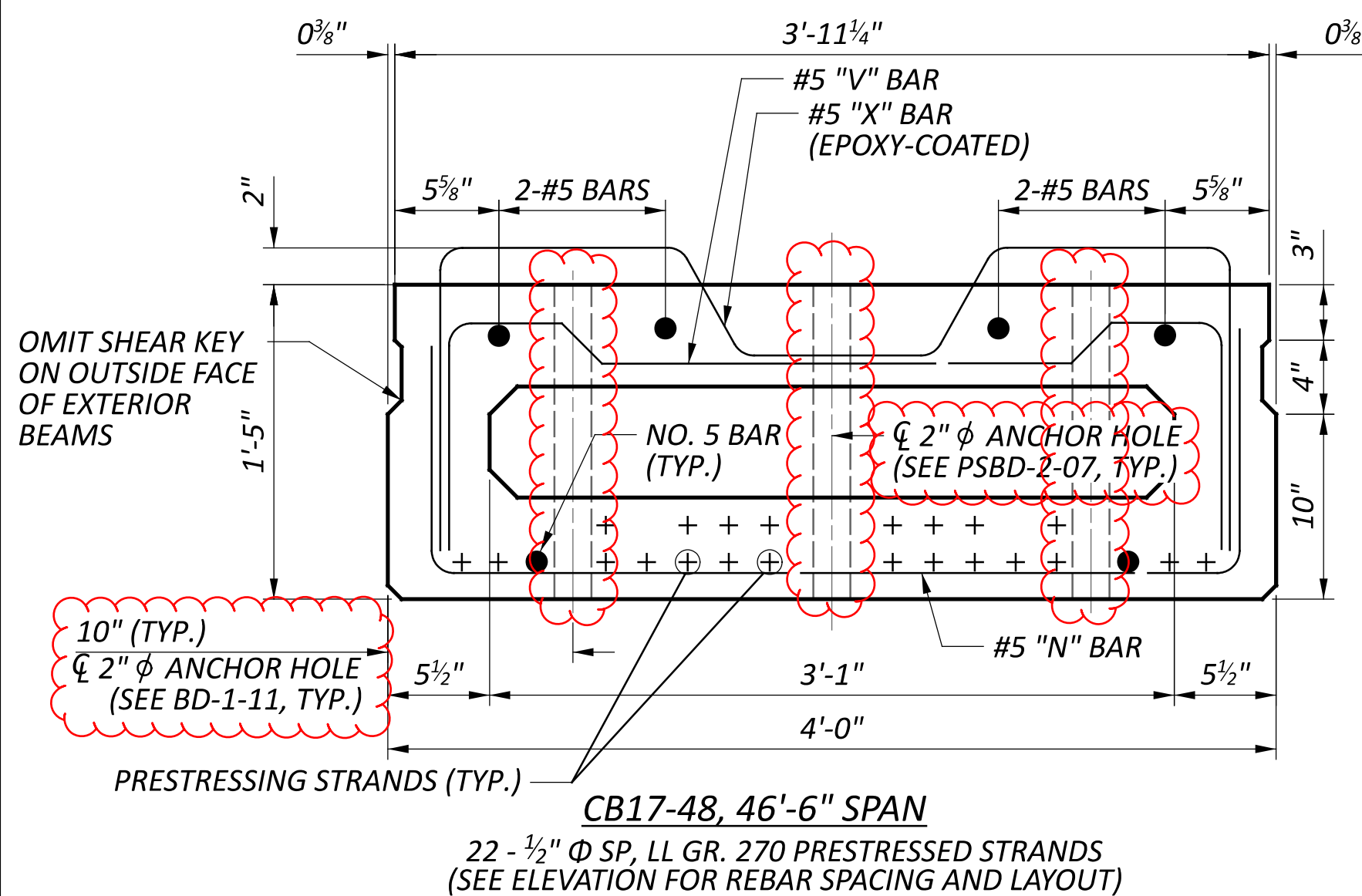
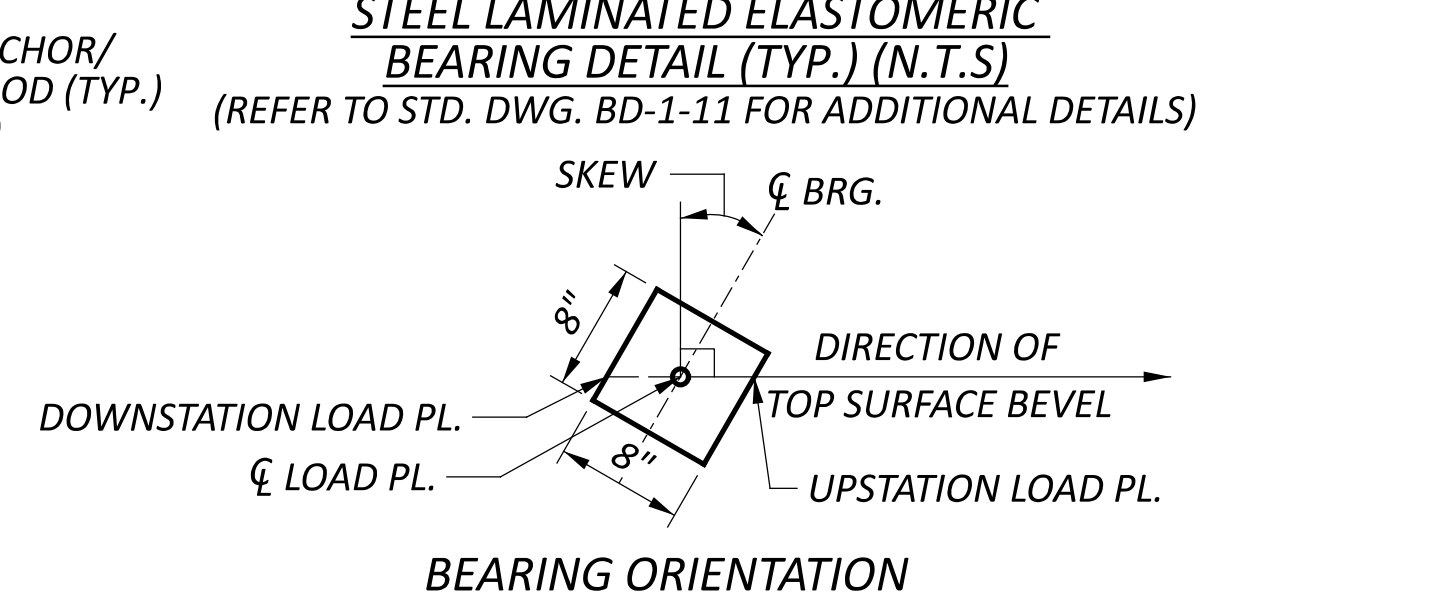
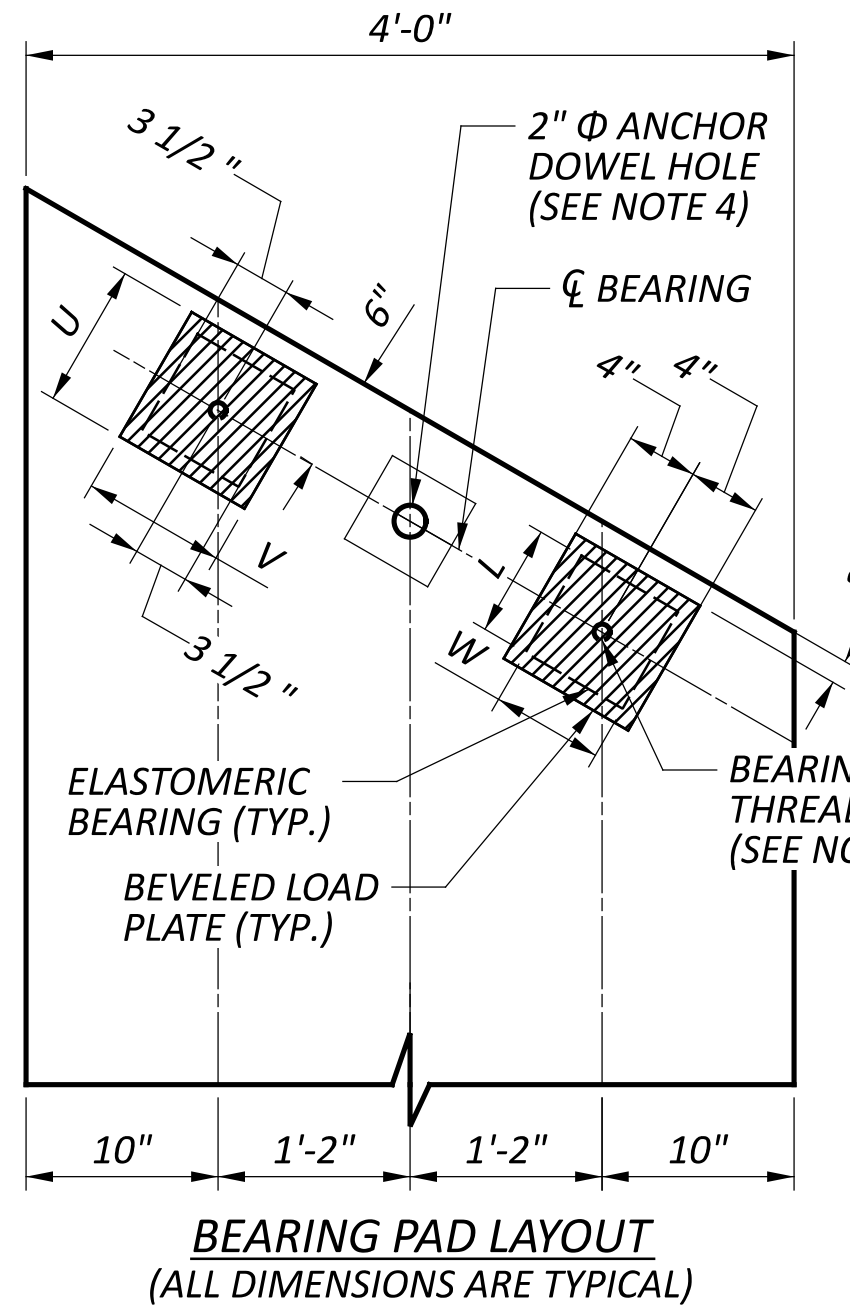
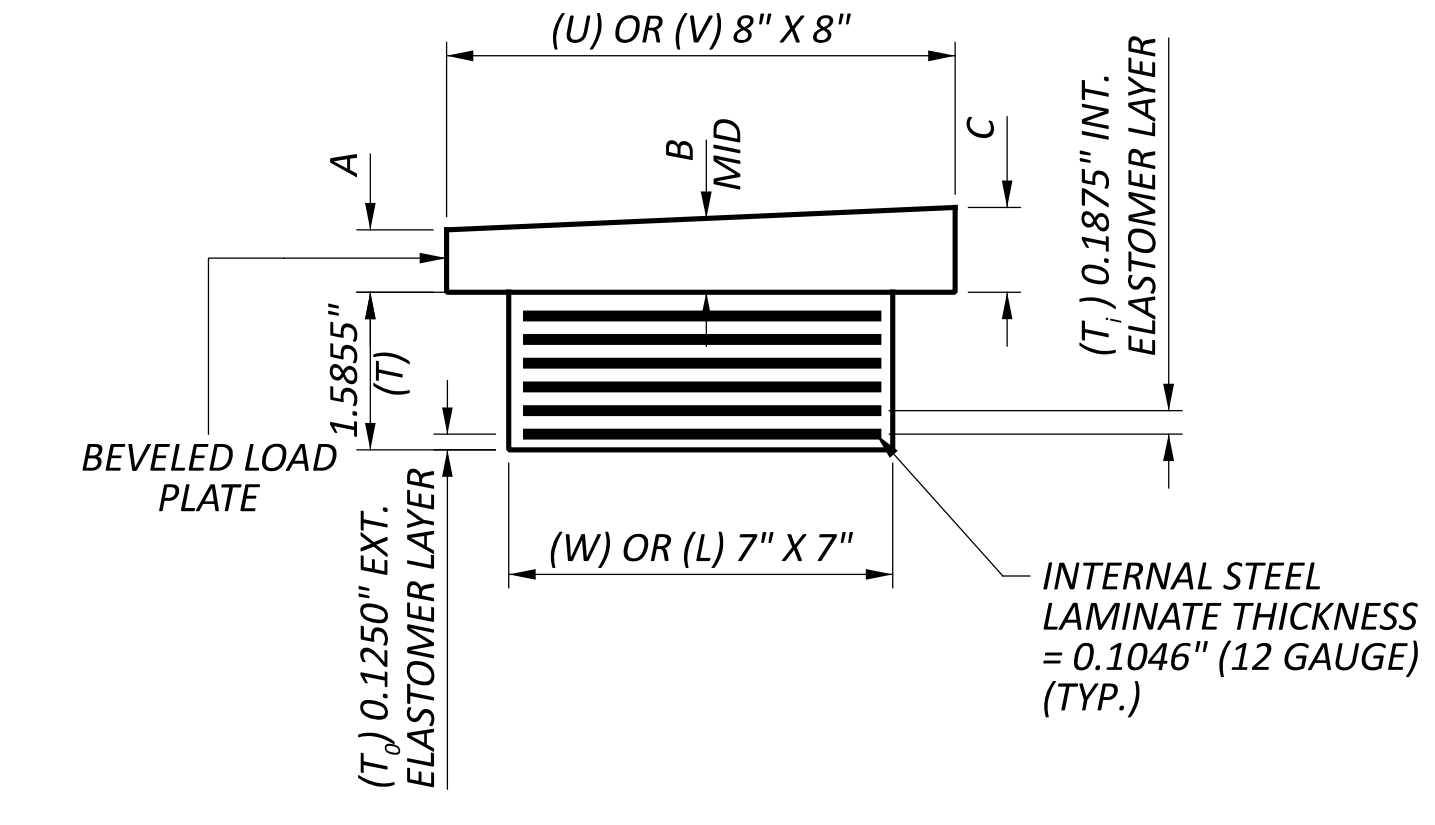
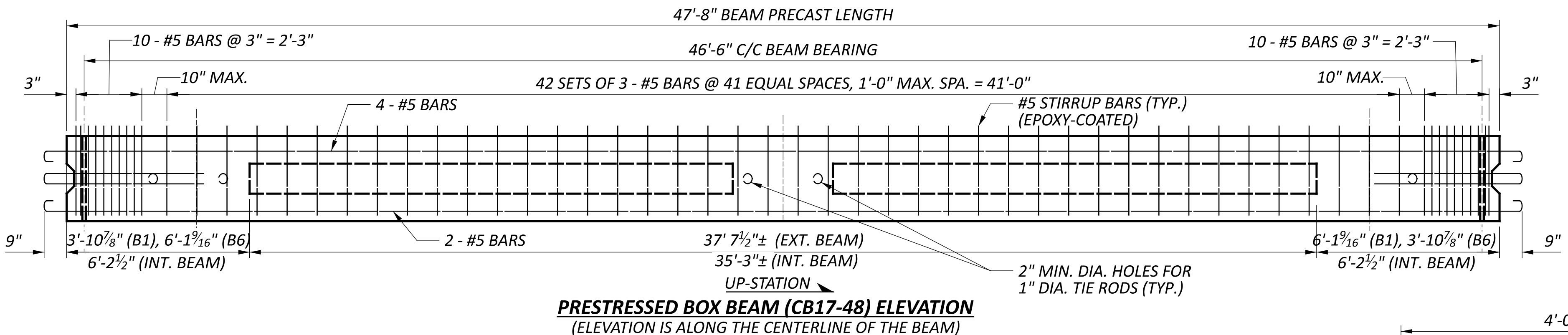
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ELASTOMERIC BEARING PAD DATA		
	REAR ABUTMENT	FWD. ABUTMENT
L	7"	7"
W	7"	7"
U	8"	8"
V	8"	8"
T	1.5855"	1.5855"
T ₀	0.1250"	0.1250"
NO. OF EXT. LAYERS	1	1
T ₁	0.1875"	0.1875"
NO. OF INT. LAYERS	5	5
NO. OF STEEL LAMINATES	5	5
DESIGN LOAD (SERVICE) PER BEARING (KIPS)		
	REAR ABUTMENT	FWD. ABUTMENT
DEAD LOAD	15.50	15.50
LIVE LOAD	18.75	18.75
TOTAL	34.25	34.25



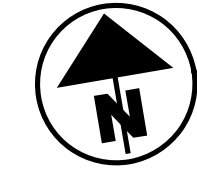
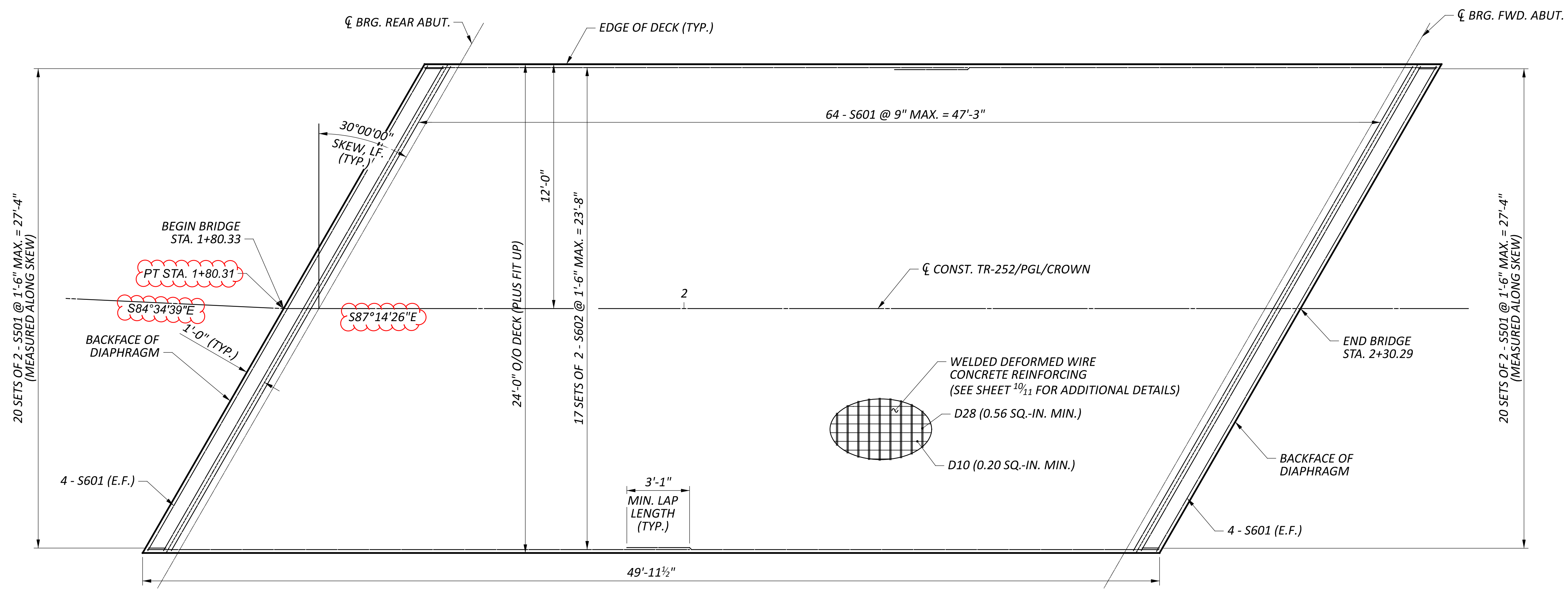
	REAR ABUTMENT			FORWARD ABUTMENT		
	DOWNSTATION THICKNESS (IN.) (A)	CL THICKNESS (IN.) (B)	UPSTATION THICKNESS (IN.) (C)	DOWNSTATION THICKNESS (IN.) (C)	CL THICKNESS (IN.) (B)	UPSTATION THICKNESS (IN.) (A)
BEAM 1	1.56	1.53	1.50	1.50	1.50	1.50
BEAM 2	1.56	1.53	1.50	1.50	1.50	1.50
BEAM 3	1.50	1.50	1.50	1.50	1.53	1.56
BEAM 4	1.50	1.50	1.50	1.50	1.53	1.56
BEAM 5	1.50	1.53	1.56	1.50	1.53	1.56
BEAM 6	1.50	1.53	1.56	1.50	1.56	1.63



- NOTES:**
- ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH ED. THE LONG TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
 - LOAD PLATES: ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED. THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS. THE STEEL LOAD PLATES SHALL BE ASTM A709 GRADE 50 STRUCTURAL STEEL AND SHALL BE METALLIZED.
 - THE UNIT BID PRICE FOR BEARINGS SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS INCLUDING LOAD PLATES. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516, ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE, EACH.
 - PLACE A 6"X6" PREFORMED EXPANSION JOINT FILLER IN ACCORDANCE WITH C&MS 705.03 AROUND DOWEL TO PREVENT ESCAPE OF MORTAR OR JOINT SEALER. FURNISHING AND PLACING ANCHOR BARS AND GALVANIZED THREADED RODS AS DETAILED IN BD-1-11 SHALL BE INCLUDED WITH ITEM 516 BEARING ITEM FOR PAYMENT.
 - REFER TO ODOT STANDARD DRAWING PSBD-2-07 FOR ADDITIONAL BOX BEAM DETAILS.

SUPERSTRUCTURE DETAILS
 BRIDGE NO. COS-TR 252-0.01
 TR-252 OVER EVANS CREEK

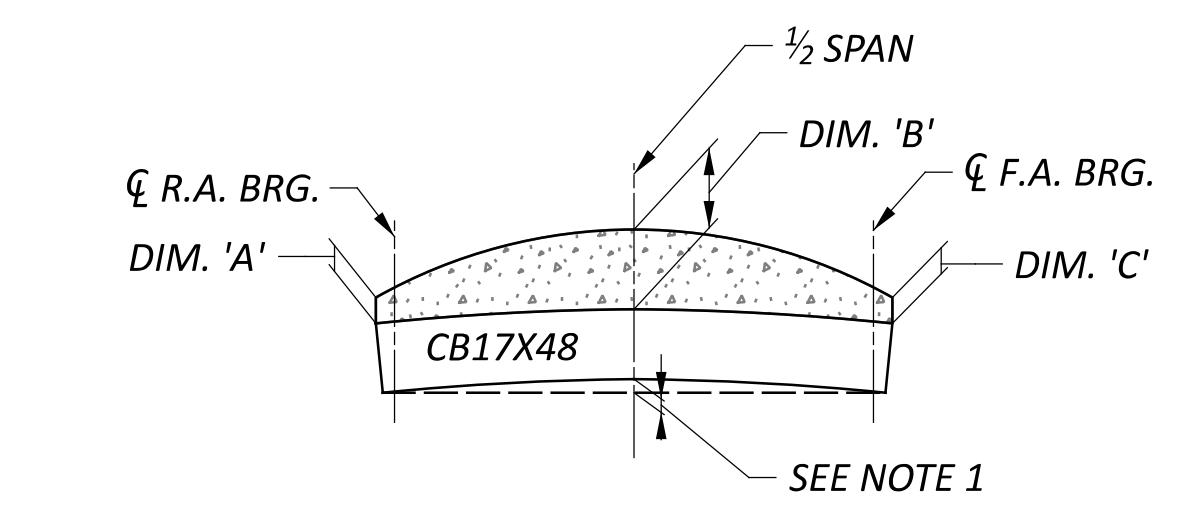
SFN	1631830
DESIGN AGENCY	Jacobs
DESIGNER	MAN
CHECKER	MJR
REVIEWER	RLC
PROJECT ID	117980
SUBSET	8
TOTAL	11
SHEET	P.18
TOTAL	31



FINAL DECK SURFACE ELEVATIONS						
	LOCATION	CL BRG. REAR ABUT.	1/4	1/2	3/4	CL BRG. FWD. ABUT.
EDGE OF DECK (LEFT)	STATION	1+88.99	2+00.61	2+12.24	2+23.86	2+35.49
	FINAL DECK SURFACE EL.	807.60	807.81	807.83	807.65	807.28
BEAM 1	STATION	1+87.83	1+99.46	2+11.08	2+22.71	2+34.33
	FINAL DECK SURFACE EL.	807.60	807.83	807.87	807.71	807.36
BEAM 2	STATION	1+85.52	1+97.15	2+08.77	2+20.40	2+32.02
	FINAL DECK SURFACE EL.	807.59	807.86	807.94	807.82	807.51
BEAM 3	STATION	1+83.21	1+94.84	2+06.46	2+18.09	2+29.71
	FINAL DECK SURFACE EL.	807.58	807.89	808.00	807.92	807.65
PGL/CROWN	STATION	1+82.06	1+93.68	2+05.31	2+16.93	2+28.56
	FINAL DECK SURFACE EL.	807.57	807.90	808.03	807.97	807.72
BEAM 4	STATION	1+80.90	1+92.53	2+04.15	2+15.78	2+27.40
	FINAL DECK SURFACE EL.	807.50	807.84	807.99	807.95	807.72
BEAM 5	STATION	1+78.88	1+90.22	2+01.84	2+13.47	2+25.09
	FINAL DECK SURFACE EL.	807.37	807.72	807.91	807.91	807.72
BEAM 6	STATION	1+76.75	1+87.91	1+99.54	2+11.16	2+22.79
	FINAL DECK SURFACE EL.	807.24	807.60	807.83	807.86	807.71
EDGE OF DECK (RIGHT)	STATION	1+75.69	1+86.76	1+98.38	2+10.01	2+21.63
	FINAL DECK SURFACE EL.	807.17	807.53	807.78	807.84	807.70

FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURED.

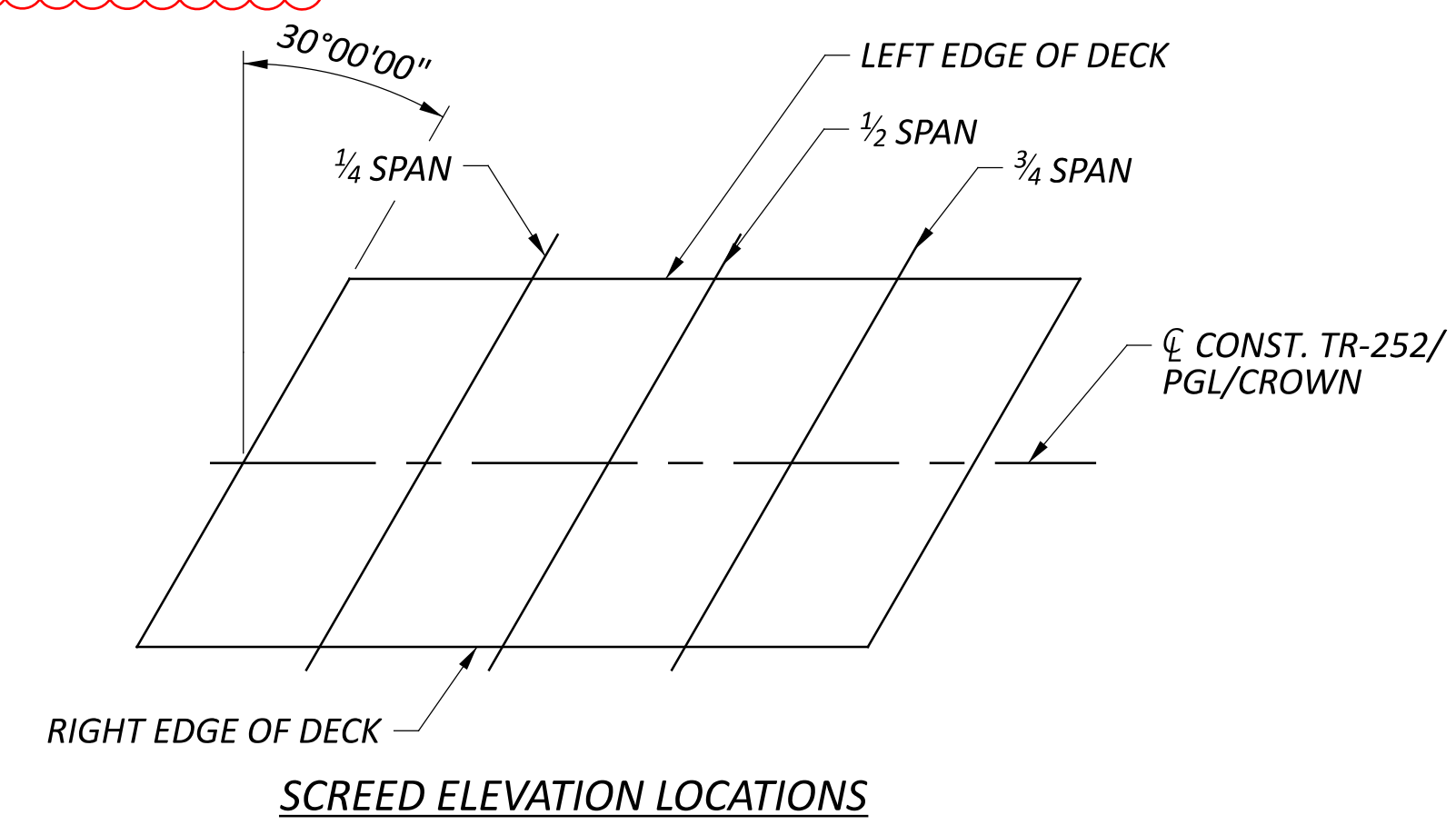
⊙ - STATIONS LOCATED DOWNSTATION (WEST) OF PT STA. 1+80.31, WHICH HAS A TANGENTIAL ALIGNMENT DIFFERENT THAN ALL OTHER FINAL DECK SURFACE LOCATIONS.



TOTAL TOPPING THICKNESS ALONG CL BEAM			
BEAM NO.	DIM. 'A' (IN.)	DIM. 'B' (IN.)	DIM. 'C' (IN.)
B1	11.06	9.22	6.93
B2	11.00	9.26	8.71
B3	10.90	9.28	10.37
B4	10.00	9.51	11.20
B5	8.40	9.09	11.18
B6	6.80	8.91	11.02

SCREED ELEVATIONS						
	LOCATION	CL BRG. REAR ABUT.	1/4	1/2	3/4	CL BRG. FWD. ABUT.
EDGE OF DECK (LEFT)	STATION	1+88.99	2+00.61	2+12.24	2+23.86	2+35.49
	FINAL DECK SURFACE EL.	807.60	807.81	807.83	807.65	807.28
	DEFLECTION	0.00	0.03	0.04	0.03	0.00
PGL/CROWN	STATION	1+82.06	1+93.68	2+05.31	2+16.93	2+28.56
	FINAL DECK SURFACE EL.	807.57	807.90	808.03	807.97	807.72
	DEFLECTION	0.00	0.03	0.05	0.03	0.00
EDGE OF DECK (RIGHT)	STATION	1+75.69	1+86.76	1+98.38	2+10.01	2+21.63
	FINAL DECK SURFACE EL.	807.17	807.53	807.78	807.84	807.70
	DEFLECTION	0.00	0.03	0.04	0.03	0.00
	SCREED EL.	807.17	807.56	807.82	807.87	807.70

SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.



- NOTES:
- ESTIMATED CAMBER AT DAY 0 (D₀) IS 1 1/8" INCHES.
 - ESTIMATED CAMBER AT DAY 30 (D₃₀) IS 1/8" INCHES.
 - DEFLECTION DUE TO REMAINING DEAD LOAD (E.G., CONCRETE DECK, DIAPHRAGMS, RAILING, ETC.) IS AN AVERAGE OF 3/16" INCHES.
 - THE BEAM SEAT ELEVATIONS ASSUME ESTIMATED CAMBER D₃₀.
 - DECK SLAB THICKNESS FOR CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK CONCRETE IS MEASURED ACCORDING TO C&MS 5.11. IN ADDITION TO THE DESIGN SLAB THICKNESS (6"), THE QUANTITY INCLUDES A VARIABLE HAUNCH THICKNESS THAT PROVIDES AN ALLOWANCE FOR: VERTICAL GRADE ADJUSTMENT AND BEAM CAMBER. FOR ESTIMATED TOPPING THICKNESS ALONG BEAM CENTERLINES SEE ESTIMATED TOPPING THICKNESS TABLE ON THIS SHEET.
 - REFER TO ODOT STANDARD DRAWING PSBD-2-07 FOR ADDITIONAL DETAILS.

SFN	1631830
DESIGN AGENCY	Jacobs
DESIGNER	MM
CHECKER	MJR
REVIEWER	RLC
PROJECT ID	117980
SUBSET	9
TOTAL	11
SHEET	P.19
TOTAL	31