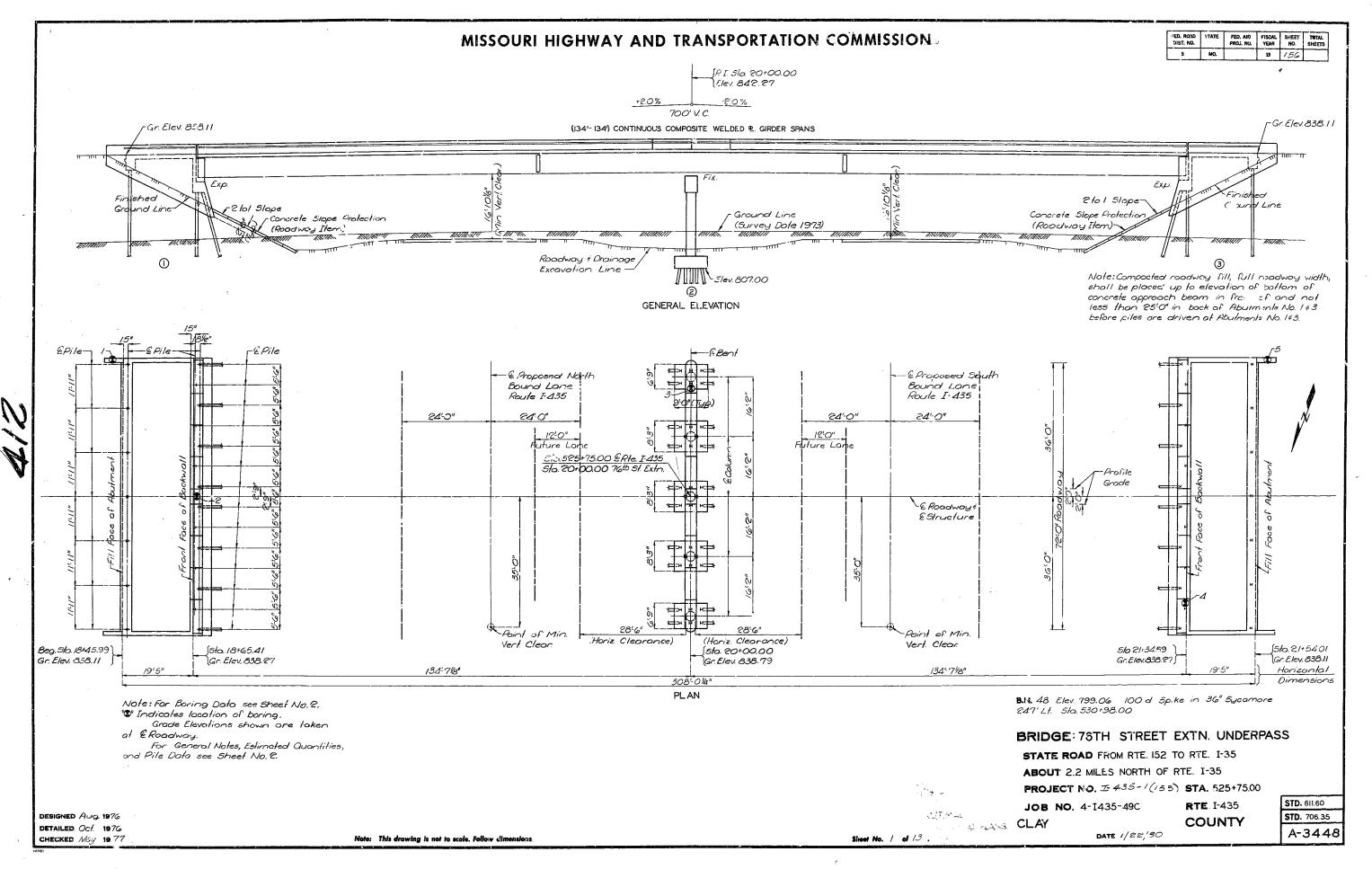
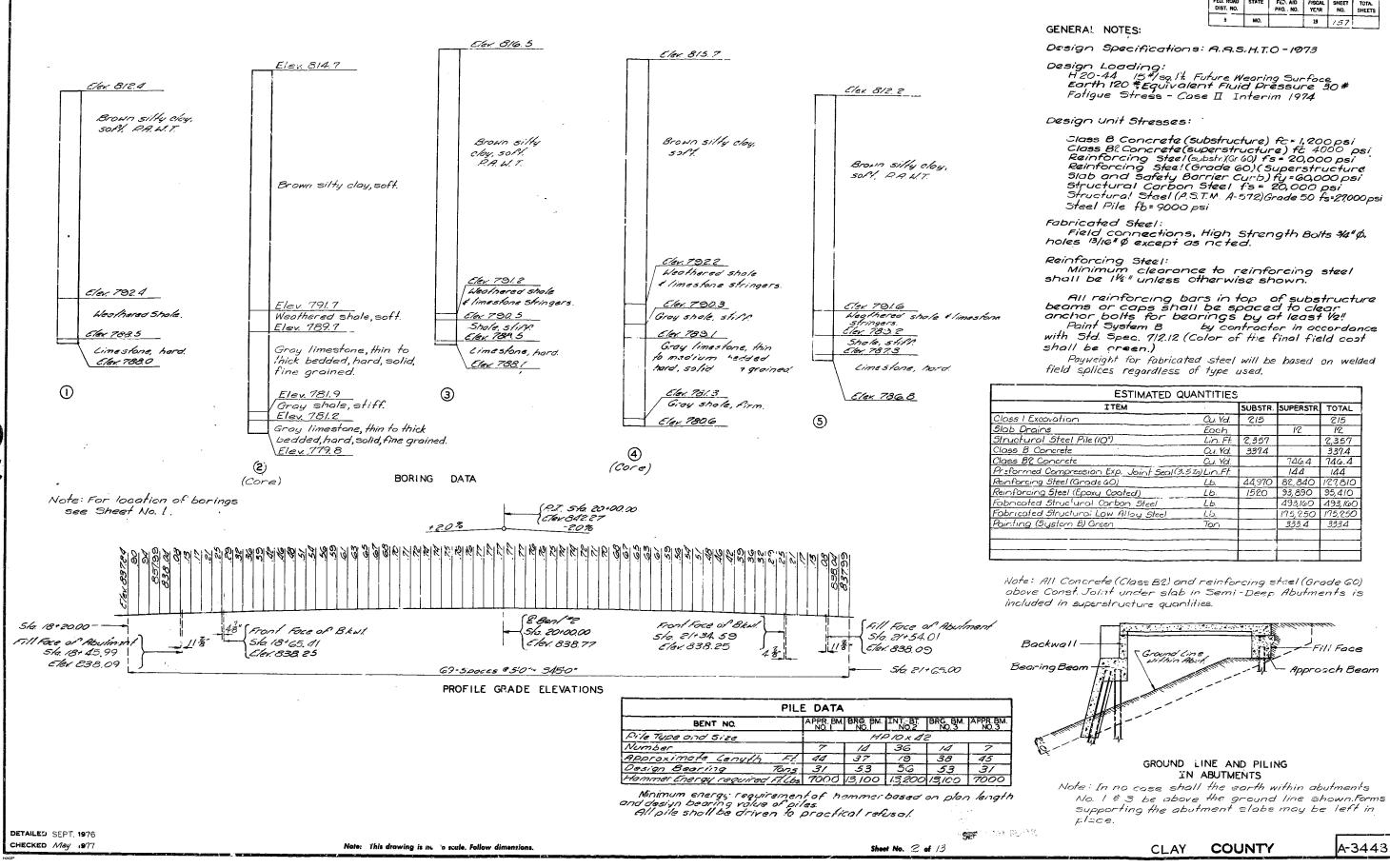
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A34482, Sht. 1

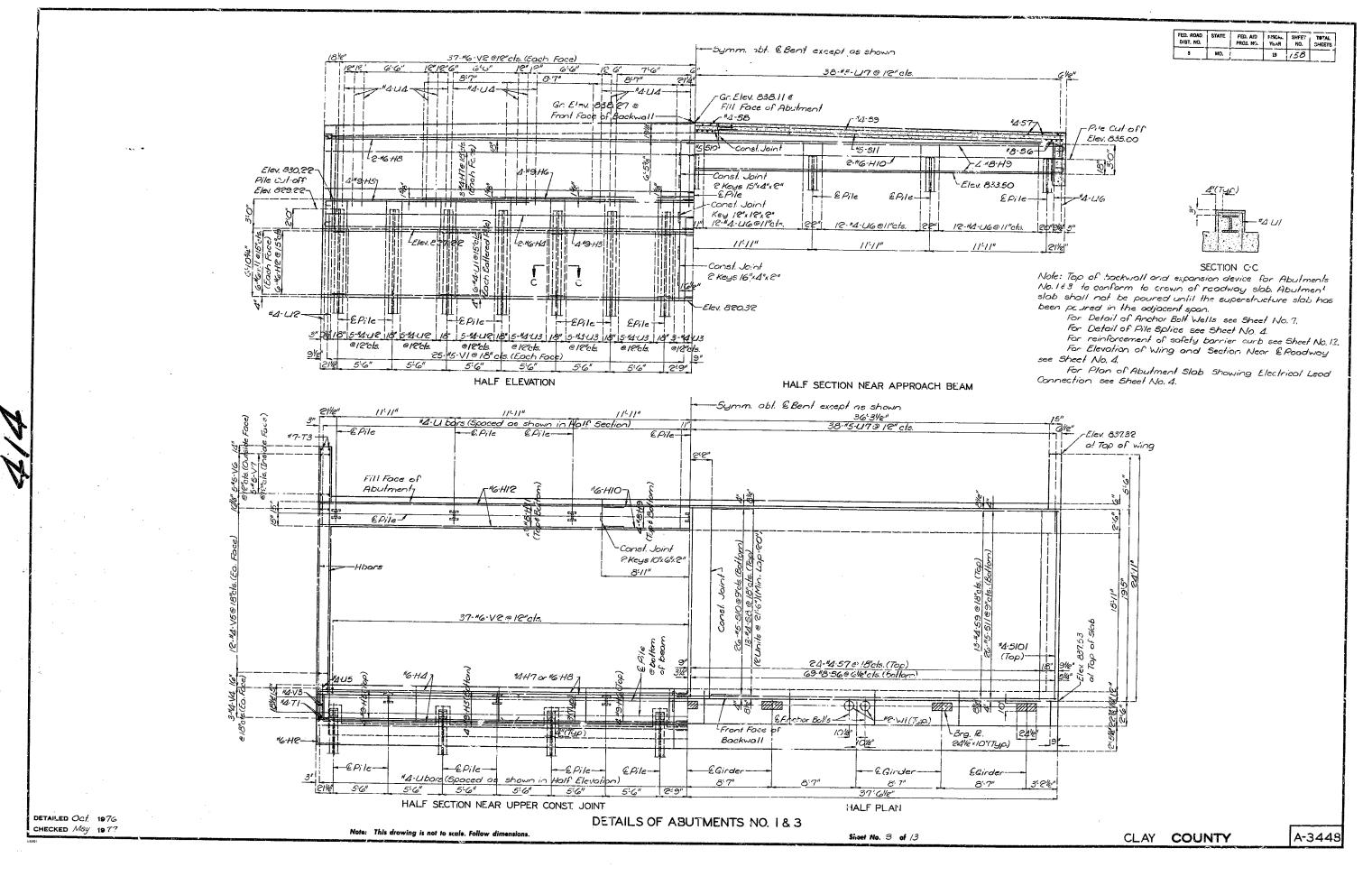


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A34482, Sht. 2

FED. ROAD DIST. NO.	STATE	FED. AID PRO NO.	FISCAL YEAR	SHEET NO.	TOTA. SHEETS
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ESTIMATED QUA	NTITIES			
ITEM		SUBSTR.	SUPERSTR.	TOTAL
ation	Cu. Yd.	215		215
	Each		12	12
teel Pile (10")	Lin. Ft.	2,357		2,357
rete	Cu. Yd.	337.4		337.4
crete	Cu. Yd.		746.4	746.4
mpression Exp. Joint Seal (3.52	n)Lin.Ft.		144	144
eel (Grode 60)	<i>L</i> Ь,	44,970	82,840	127,810
eel (Epoxy Coated)	Lb.	1520	93,890	95,410
ructural Carbon Steel	L.b.	_	493,160	493,160
ructurai Low Alloy Steel	Lb.		175,250	175,250
tern B) Green	Ton		333.4	333.4



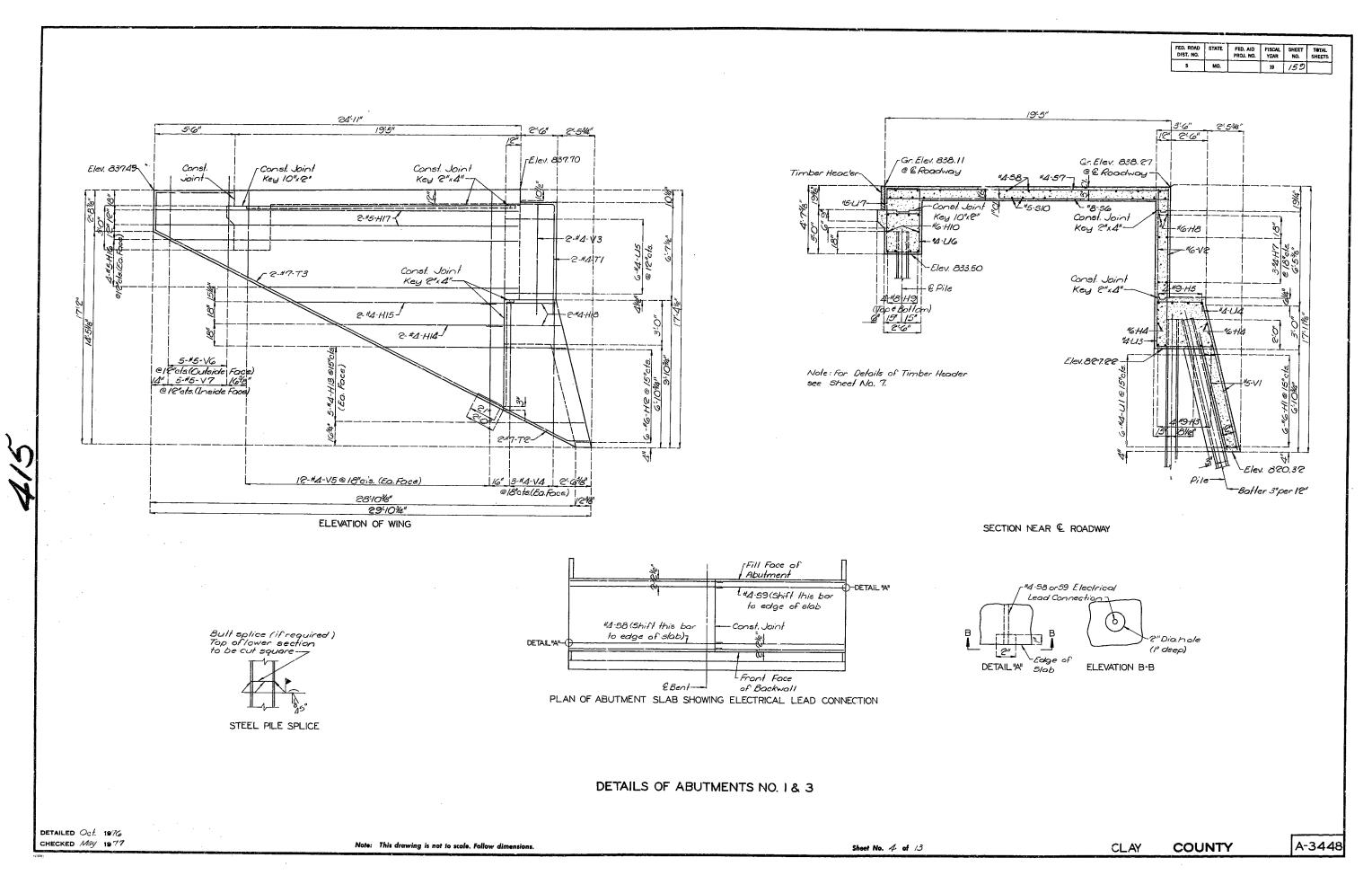
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A34482, Sht. 3

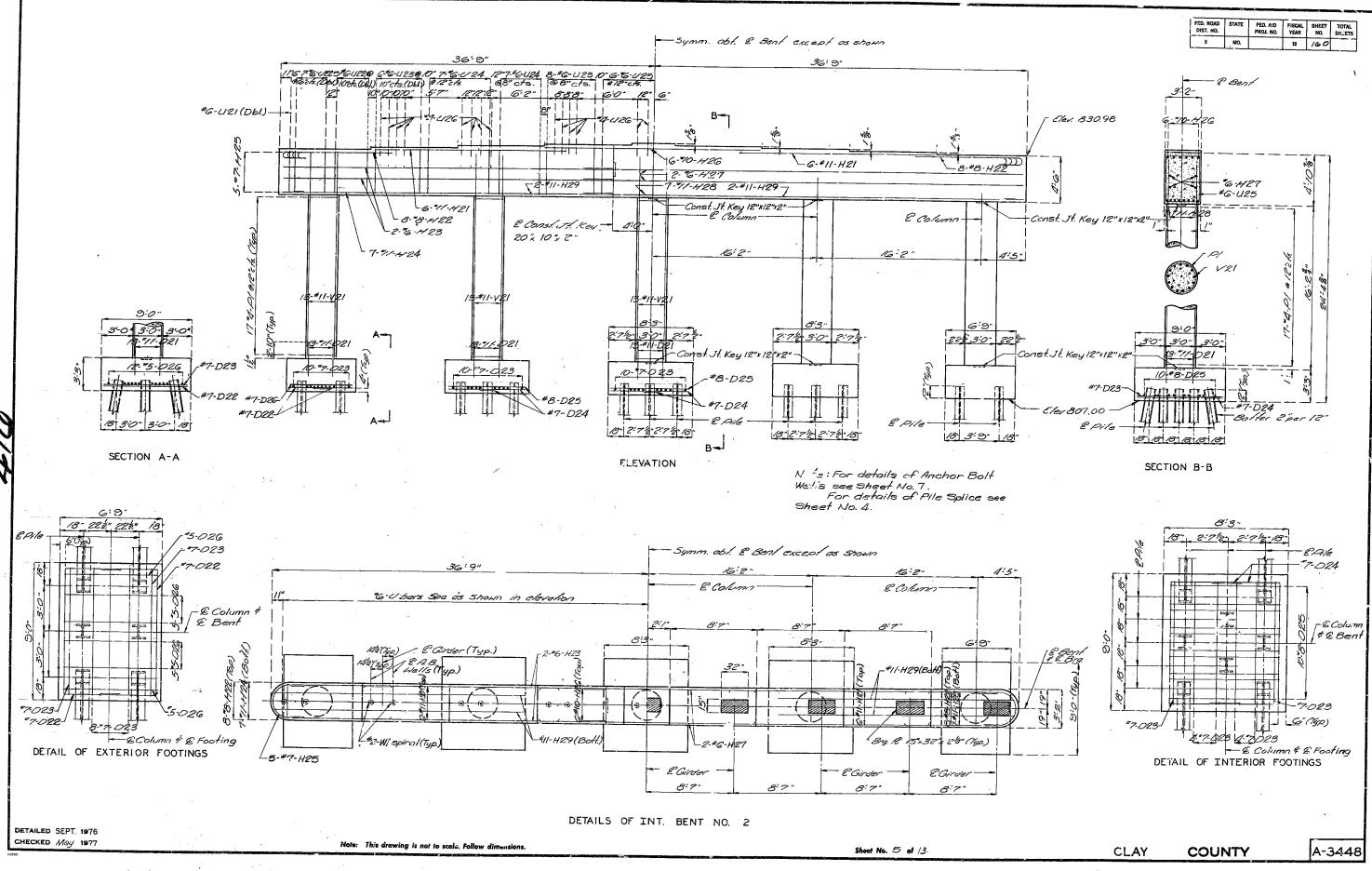
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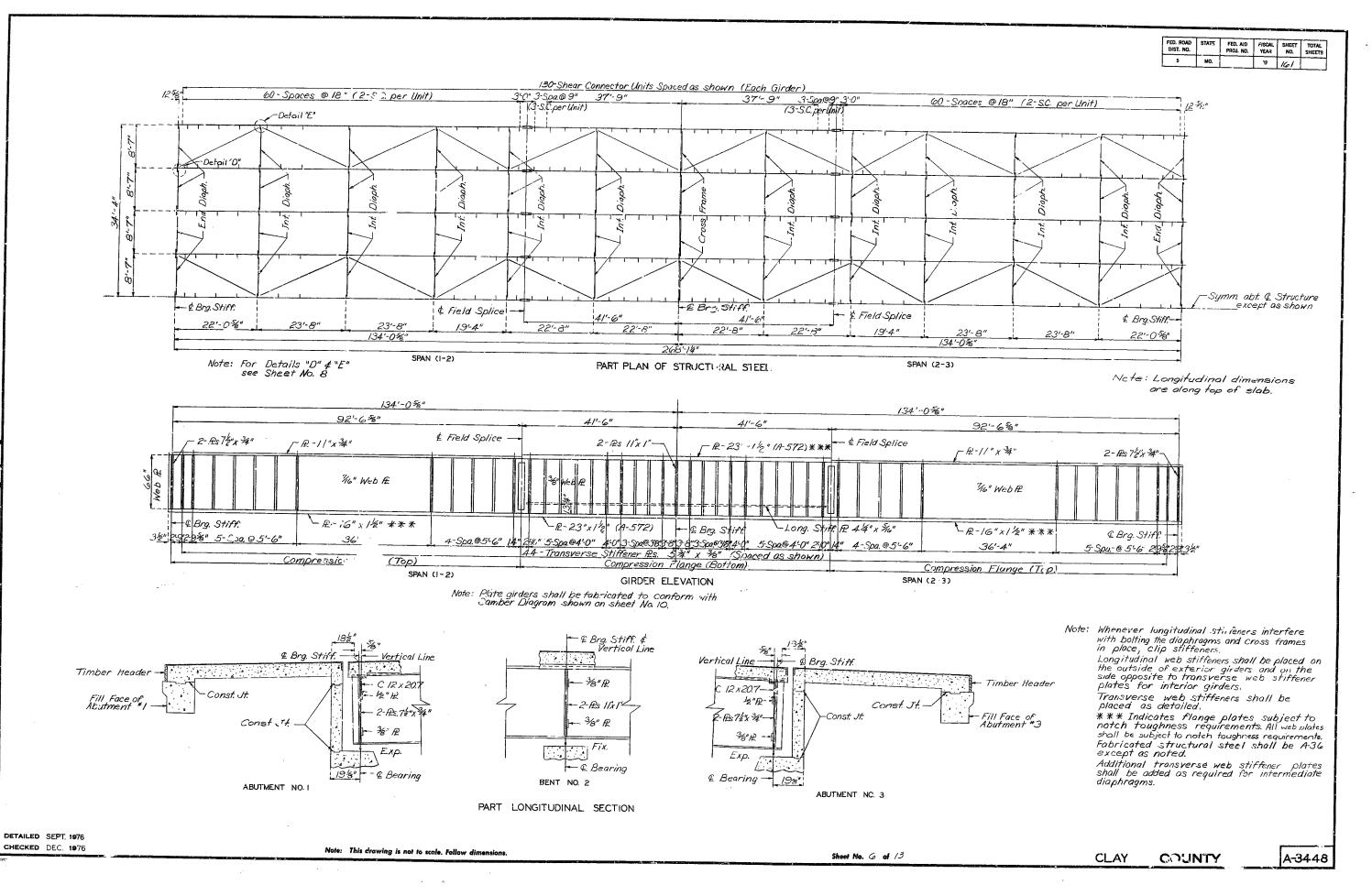
A34482, Sht. 4

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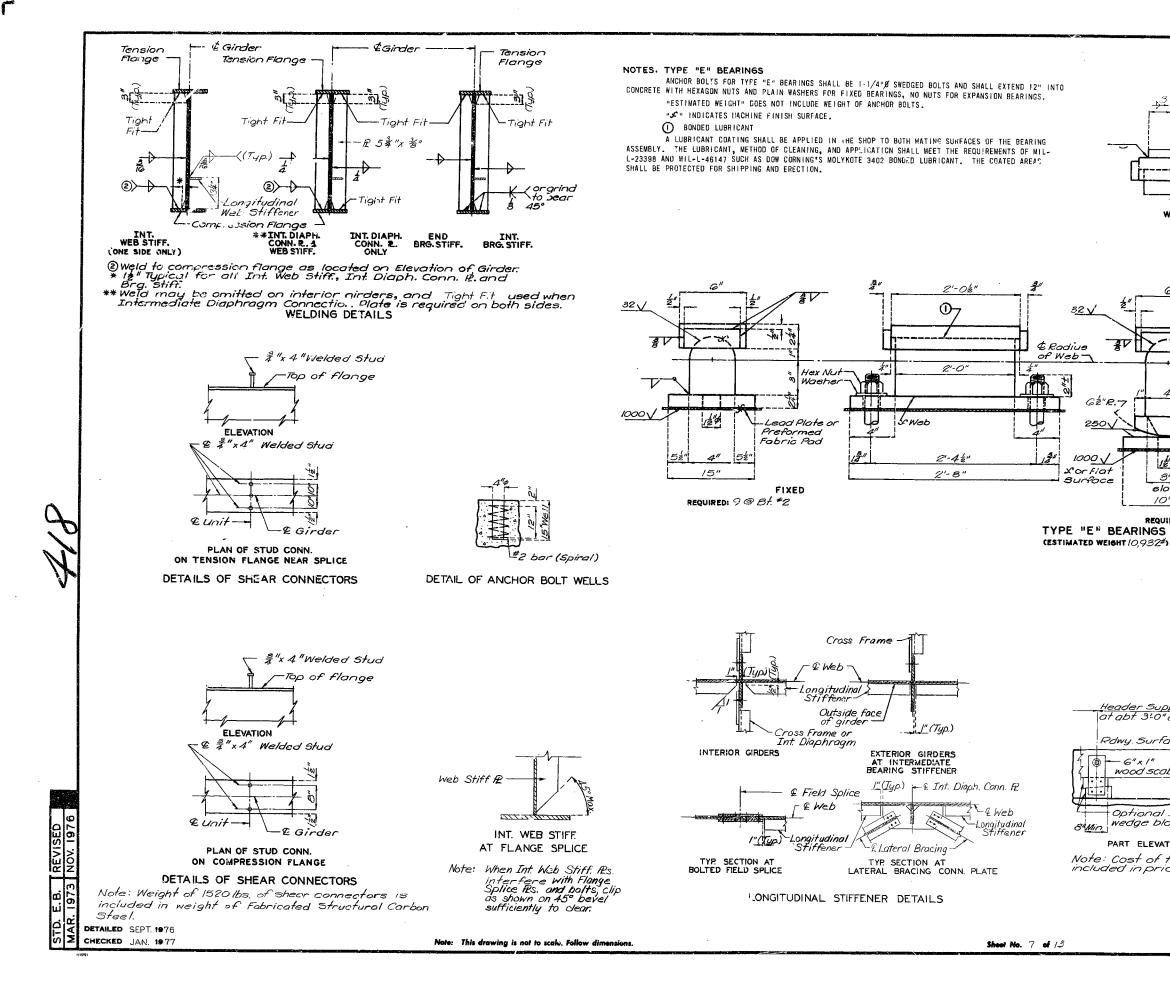


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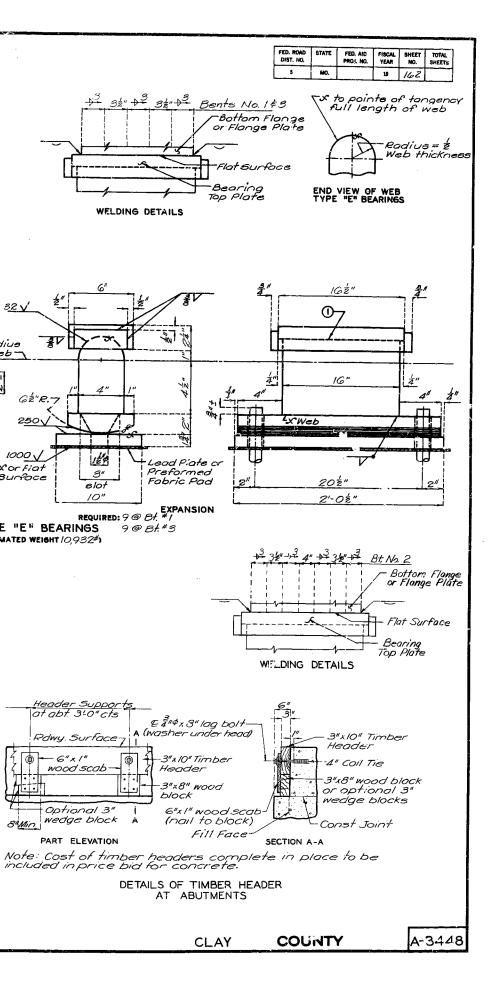
A34482, Sht. 5



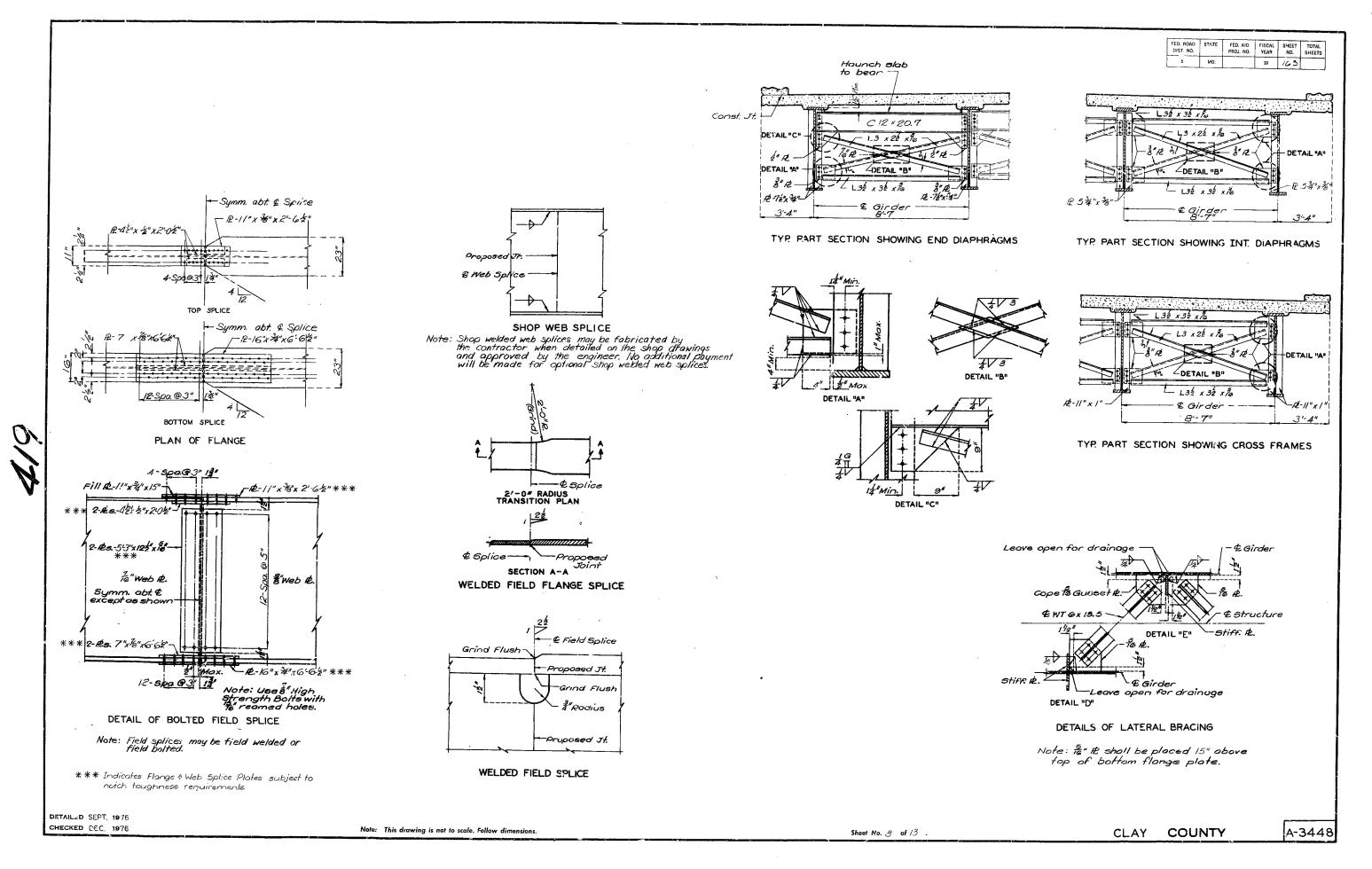
A34482, Sht. 6



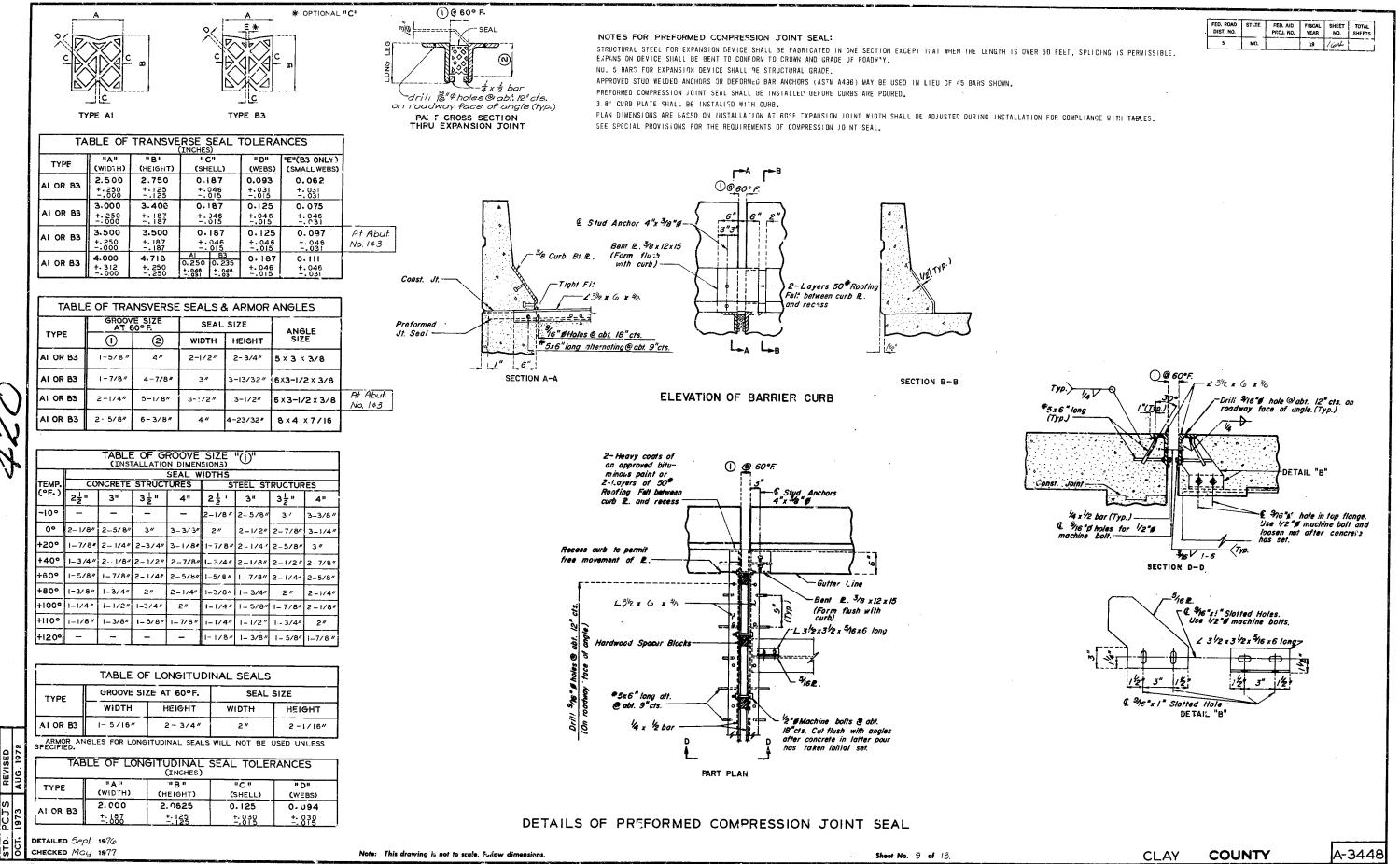
A34482, Sht. 7



-6"x1"

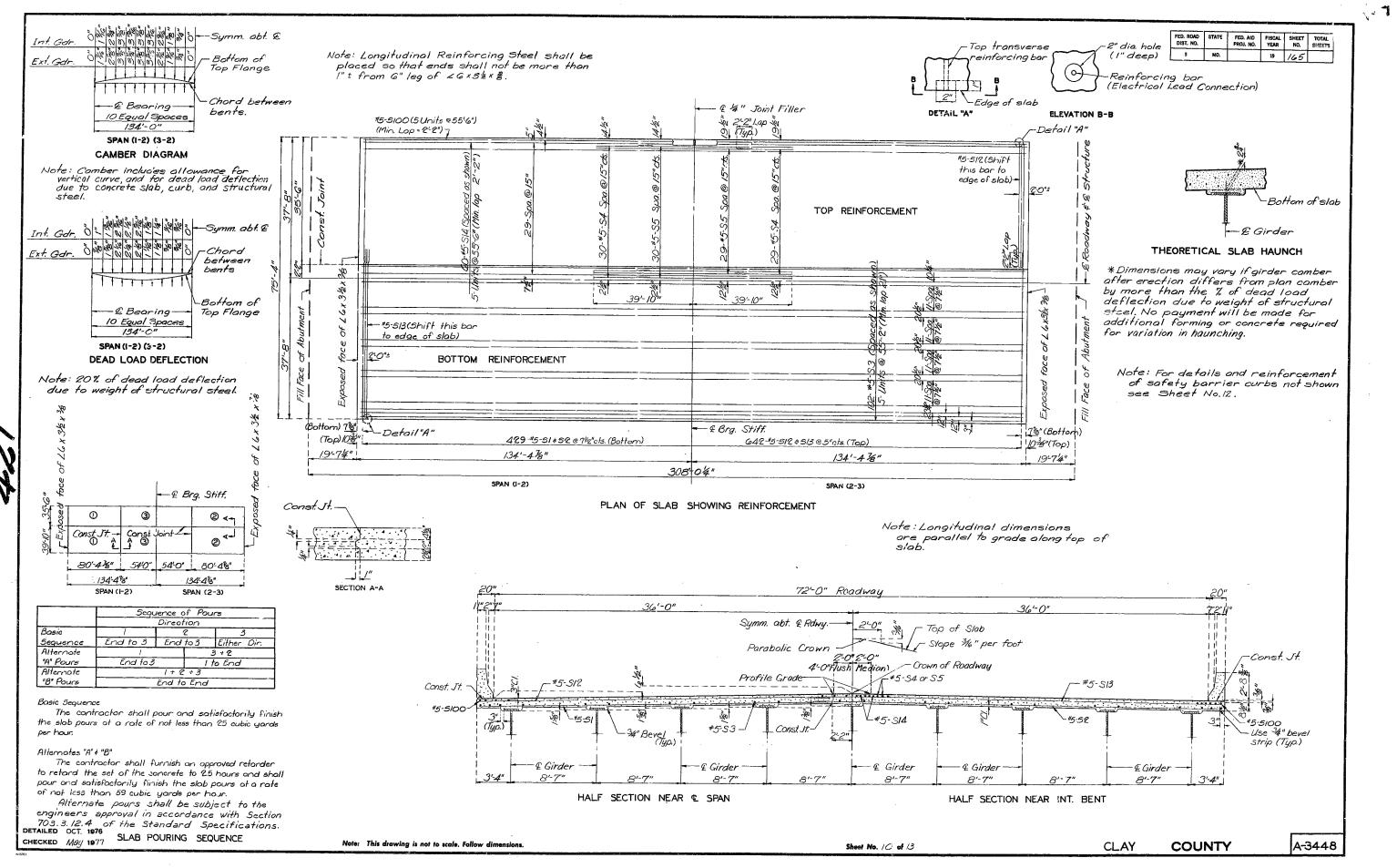


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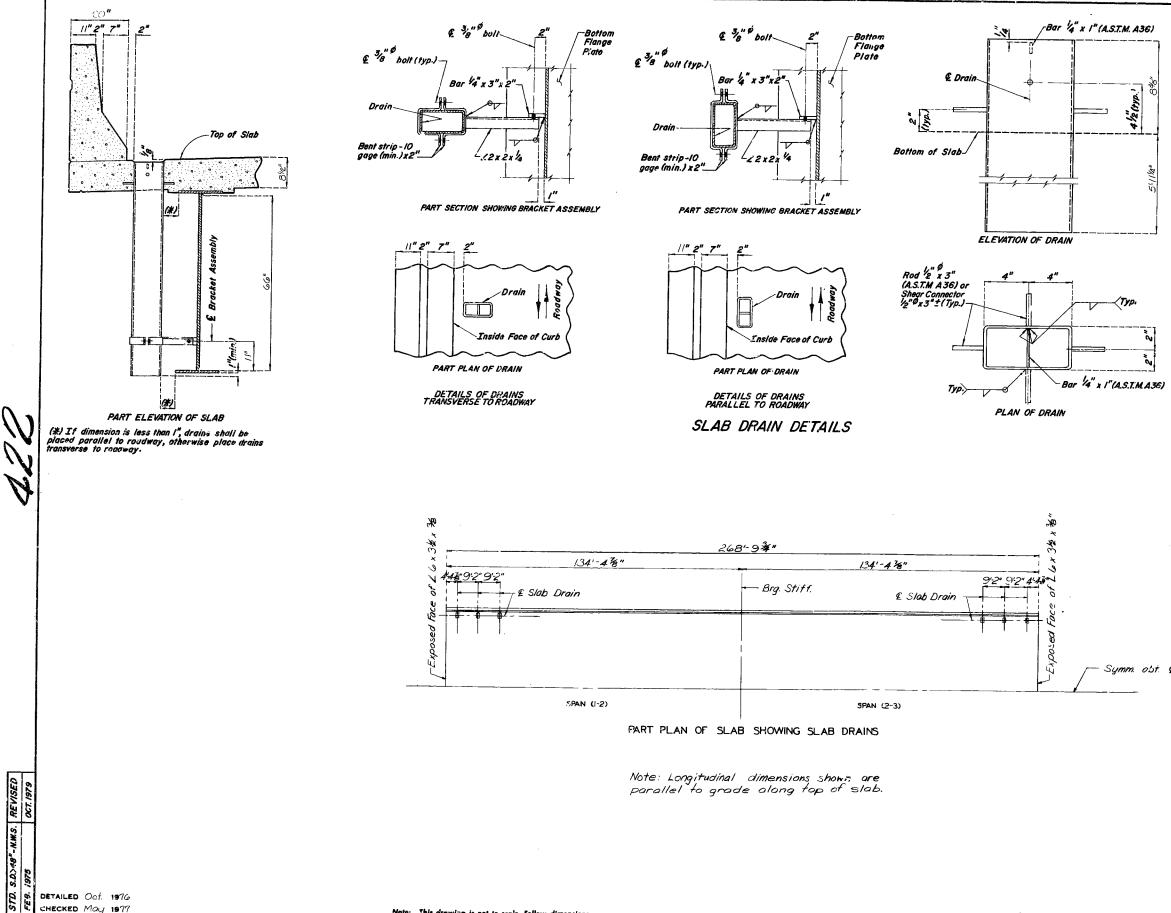
r					
FED. ROAD DIST. NO.	ST'ITE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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A34482, Sht. 11

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
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GENERAL NOTES:

SLAB DRAINS MAY BE FABRICATED OF EITHER 1/4" welded sheets of A.S.T.M. A36 STEEL OR FROM 1/4" Structural steel tubing A.S.T.M. A500 or A501.

OUTSIDE DIMENSIONS OF DRAINS ARE 8" x 4".

THE DRAINS SHALL BE CAST IN THE CONCRETE WITH THE TOP OF THE DRAINS BEING 1/8" BELOW THE FINISHED CONCRETE LINE.

LOCATE DRAINS IN SLAB BY DIMENSIONS SHOWN IN PART ELEVATION. SHIFT REINFORCING IN FIELD WHERE NECESSARY TO CLEAR DRAINS.

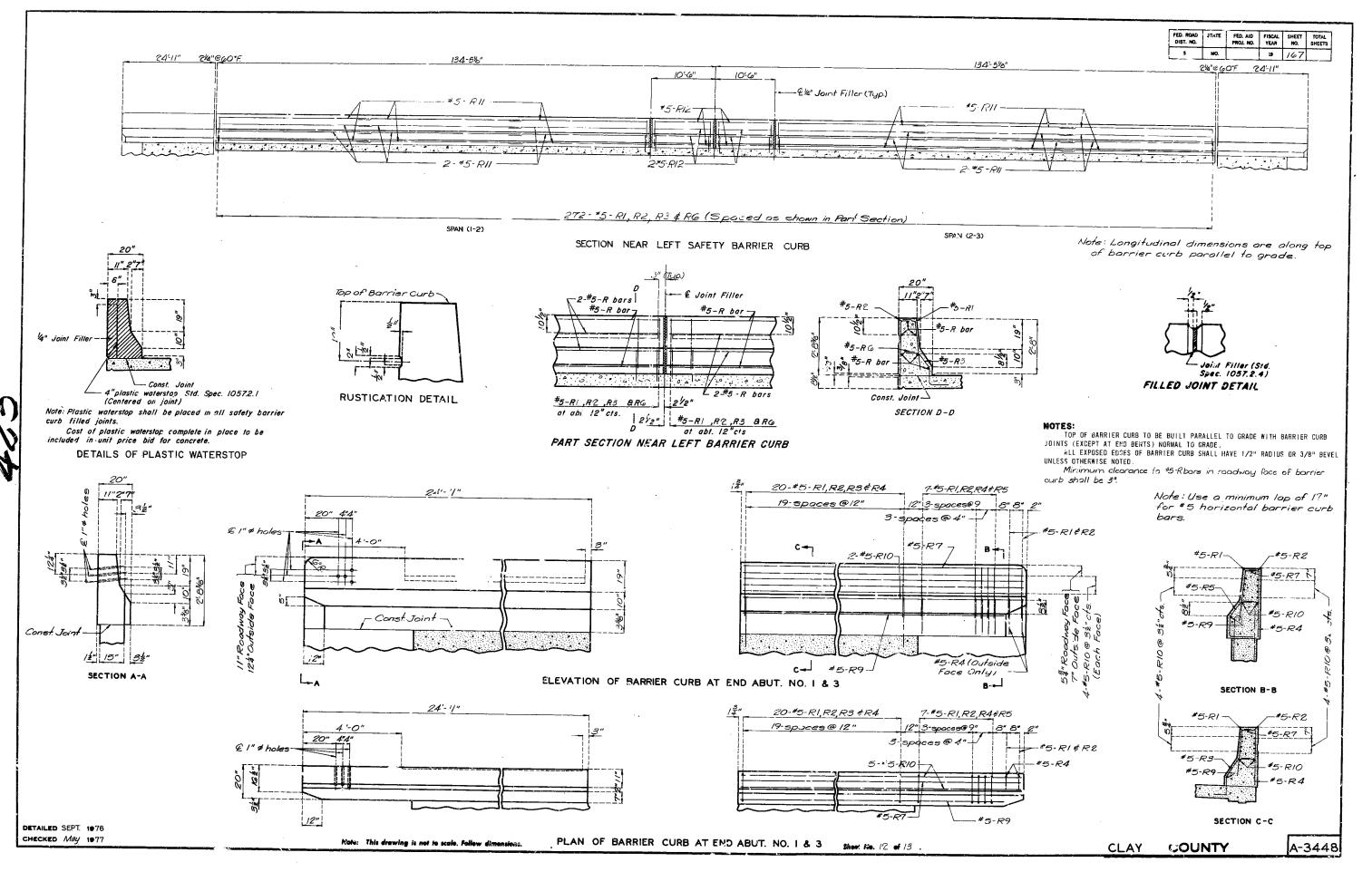
THE DRAINS AND 10 GAGE BRACKET ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A123.

THE $1/4"\ x\ 3"\ x\ 2"$ BAR SHALL BE LOCATED ON THE PLATE GIRDER SHOP DRAWINGS.

Shop drawings will not be required for slab drains and the 10 gage bracket assembly.

Cost of furnishing, fabricating, galvanizing and installing slab drains, complete in place, shall be paid for at the contract unit price for slab drains per each.

Symm. ost. & Roadway



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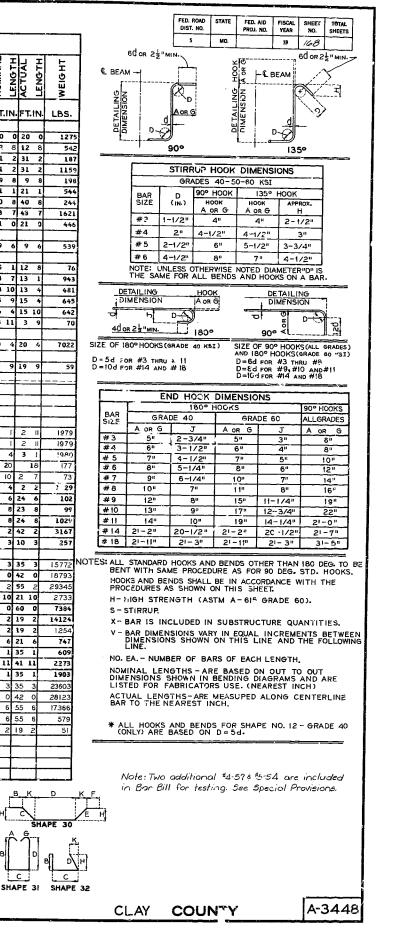
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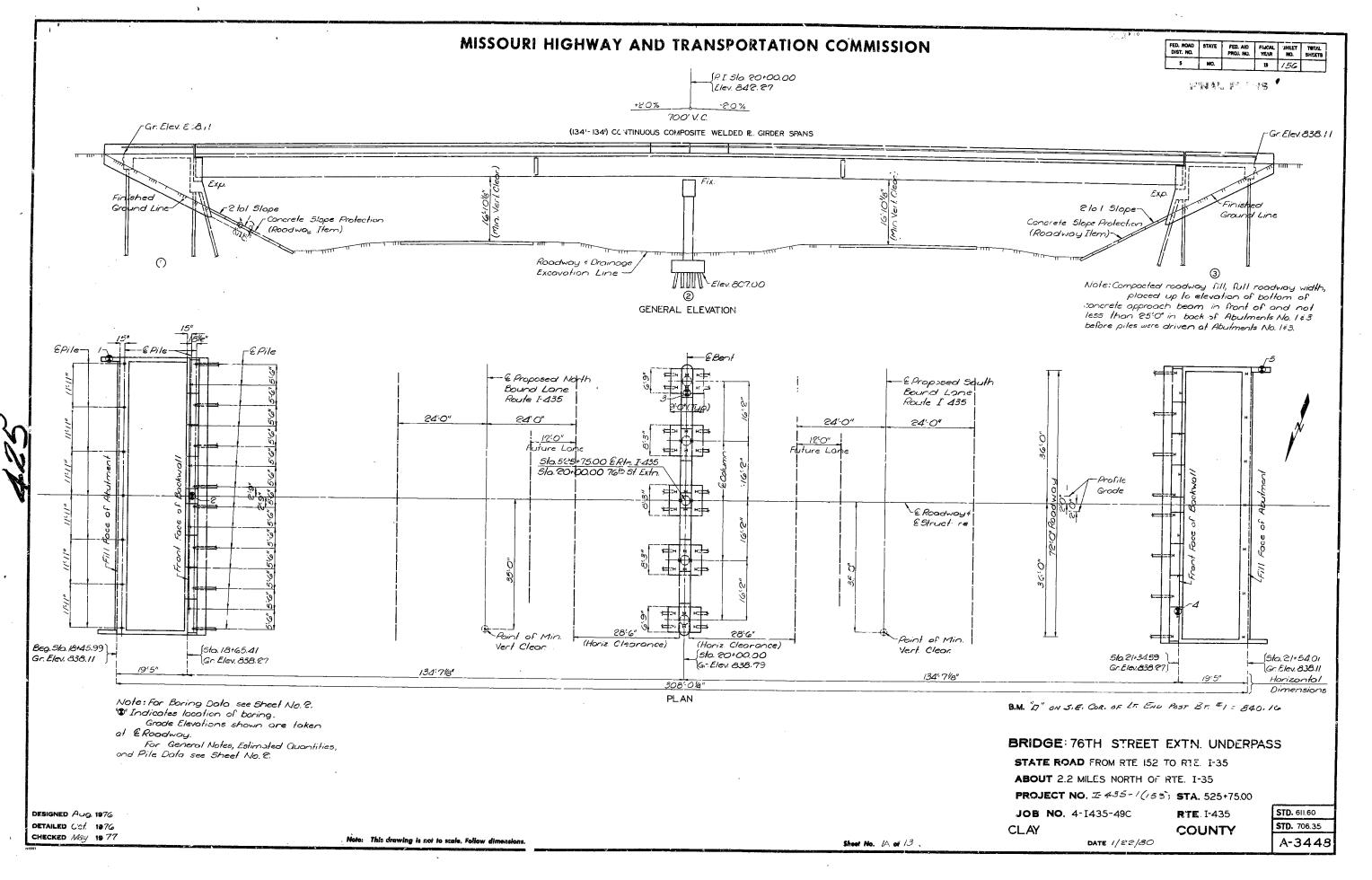
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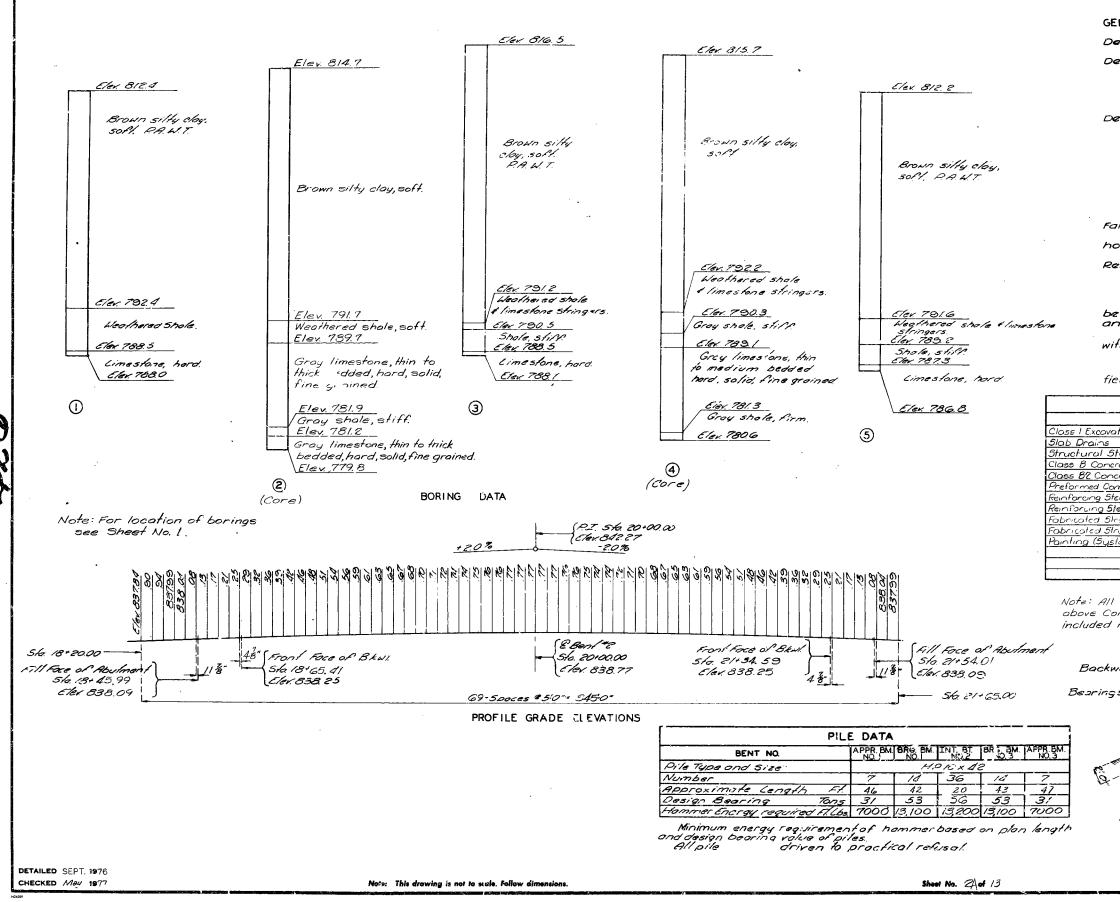
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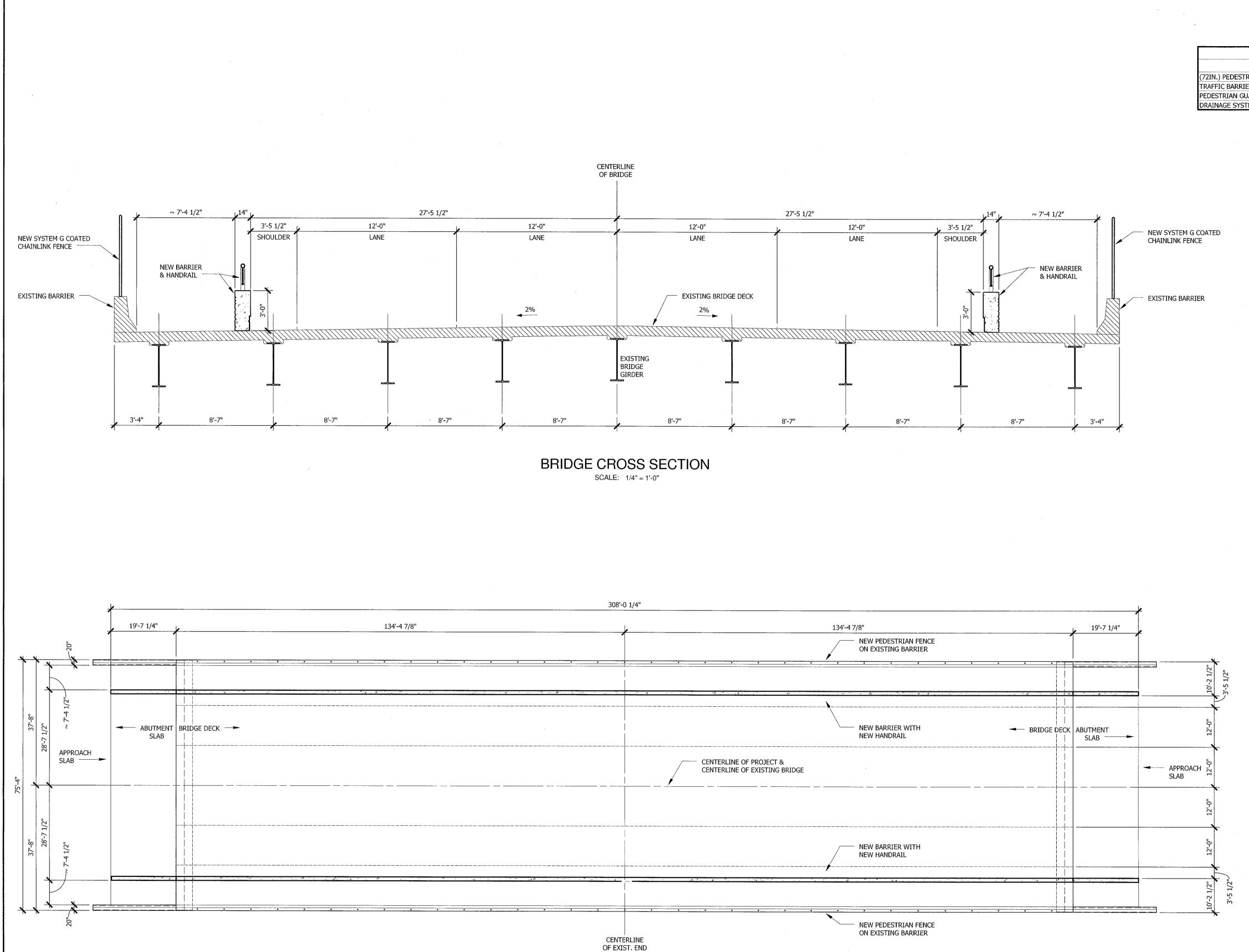
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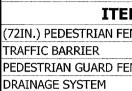
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FINA	PLANS	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHFETS
ENERAL NOTES						157	d
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esign unit Stre	25525:						
Class B Cond Class Bl Cond Reinforcing Reinforcing Slab and Sa Structural St Structural St Steel Pile fb	crete(su) 5tee/(su) 5tee/(Gr 5tee/(Gr fety Bar Carbon S ee/(A.S.T	perstru pstr.(Gr.C pade Go rier Cu pteel t M. A-5	ictur OJ f	-e) f8 s = 20	,000 ,000	00 ppsi	osi
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einforcing Ste Minimum cli I ^V e" ur	earance niess off						
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ESTIMA	TED QUAN	TITIES					ר ו
ITEM			SUBSTR	R. SUPER	STR.	TOTAL	
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Note: In no co	SE 15	ABUTME	NTS 2-th	withir			
No. 1 ¢ 3 Supporting place.	obove the abuti	the gr ment s	-oun slab	d line s	e sk	let	torms 4 in
	CLAY	COU	INT	1		A-	3448



BENT NO. 2



EXISTING BRIDGE PLAN SCALE: 1/16" = 1'-0"

A34482, Sht. 16

ES	TIMATED QU	ANTITIES		
EM	UNITS	SUBSTR.	SUPERSTR.	TOTAL
ENCE (STRUCTURES)	LINEAR FOOT		637	637
	LINEAR FOOT		615	615
ENCE .	LINEAR FOOT		615	615
	LUMP SUM		1	1

GENERAL NOTES: DESIGN SPECIFICATIONS:

2002-AASHTO 17TH EDITION LOAD FACTOR DESIGN:

CLASS B-1 CONCRETE f'c = 4,000 psi

REINFORCING STEEL (GRADE 60), fy = 60,000 psi

REVISED STRUCTURES:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE ORDERING NEW MATERIAL.

ALL JOINT FILLER SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED SPONGE EXPANSION AND PARTITION JOINTS FILLER, EXCEPT AS NOTED.

LONGITUDINAL DIMENSIONS ARE BASED ON THE ORIGINAL DESIGN PLANS.

ALL DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PREFORMED FIBER EXPANSION JOINT MATERIAL SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH NO. 10 GAGE COPPER WIRE OR NO. 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1 1/2" UNLESS NOTED OTHERWISE.

ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.

ALL STRUCTURAL STEEL FOR PIPE SHAPES SHALL BE ASTM A53, GRADE B, TUBING FOR POSTS SHALL BE ASTM 500, GRADE B, AND BARS FOR PICKETS AND BOTTOM RAIL SHALL BE ASTM A709 GRADE 36.

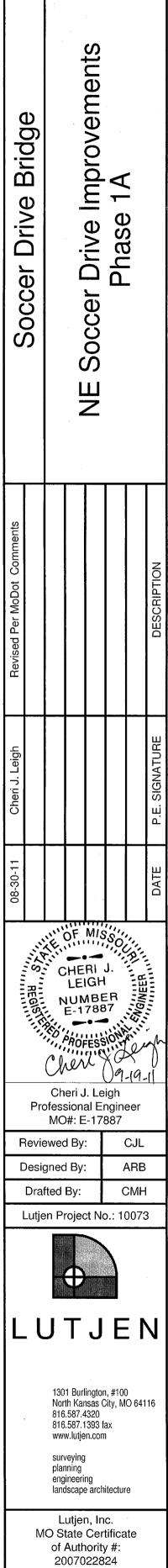
ALL STRUCTURAL STEEL WELDS IN THE SHOP OR THE FIELD SHALL BE PERFORMED BY A QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S.

"SEC" REFERS TO THE SECTIONS IN THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.

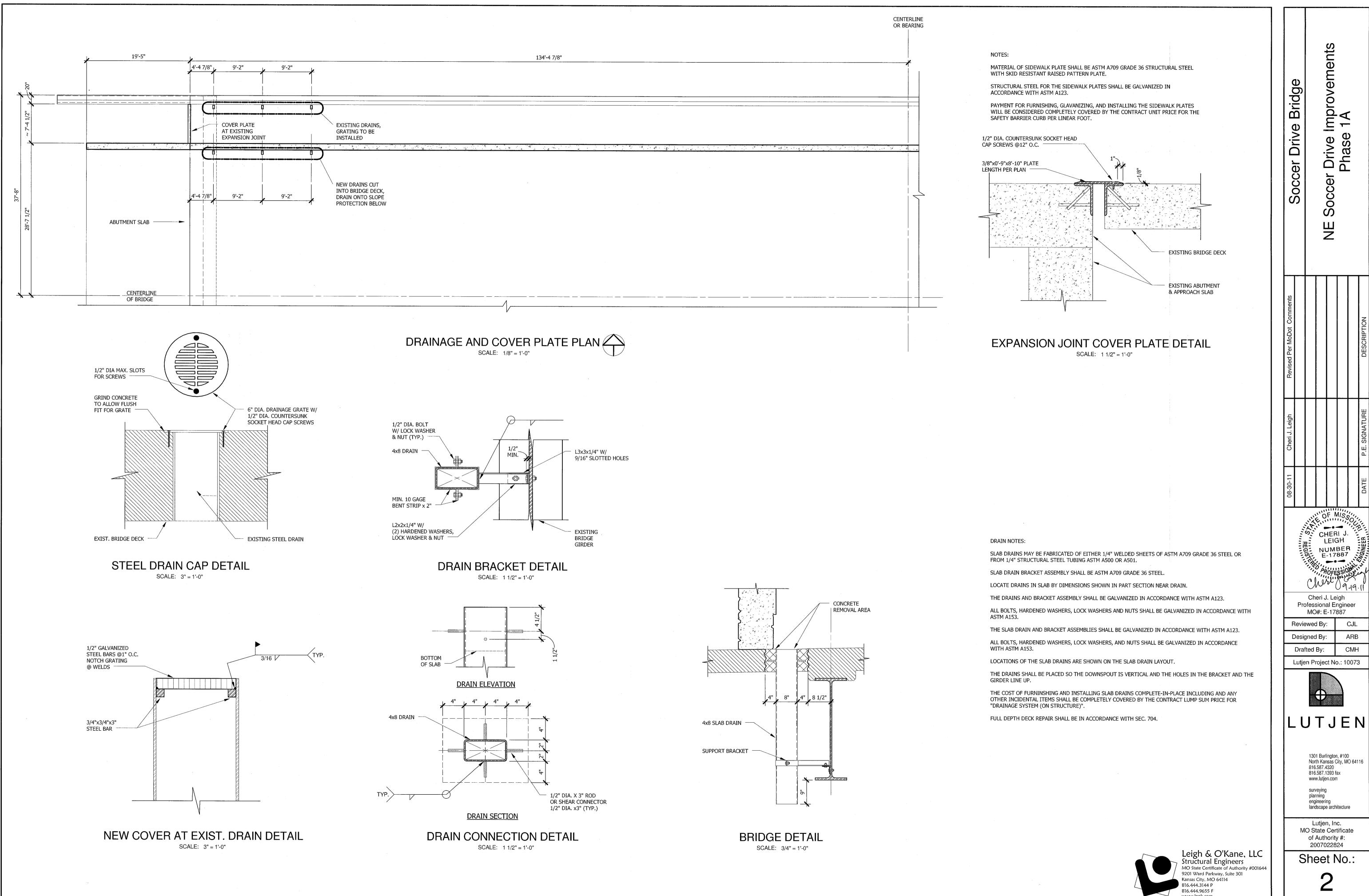




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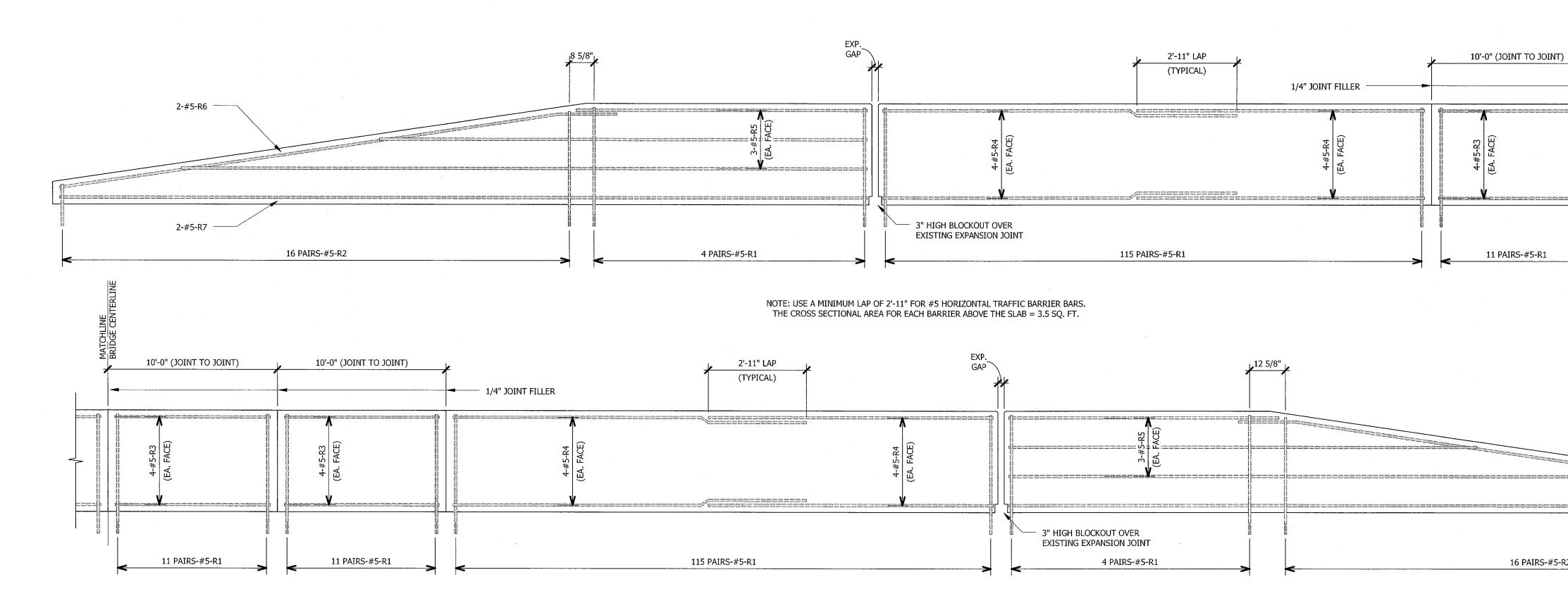
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CJL

ARB

CMH



											COMF	PLET	E BILL (OF RI	EINFOR	CING										
NO. REQUIRED	SIZE	MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUPS (S)	SUBSTR. (X)	VARIES (V)	NO. EACH		"B"		"C"		"D"	"E"	"F"		"H"		'K''		NOMINAL LEN.		ACTUAL LEN.	WEIGHT
1128	5	R1	BARRIER WALL	E	20					3'	4.00"						 					3'	4.00"	3'	4.00"	3922
	-	R2						v		3	4.00	01	10.00	~	0.00"		 									
128	5	Π∠	TRANSITION WALL INCR. = 1.78"	E	20			V	8			0' 3'	13.00" 4.00"	0'	8.00"							0' 3'	13.00" 4.00"	0' 3'	13.00" 4.00"	295
64	5	R3	BARRIER WALL	E	20					9'	6.00"	1										9'	6.00"	9'	6.00"	634
64	5	R4	BARRIER WALL	E	20					58'	6.00"						 					58'	6.00"	58'	6.00"	3905
24	5	R5	TRANSITION WALL	E	20			٧	8	4'	6.00"											4'	6.00"	4'	6.00"	263
			INCR. = 5'-10.00"							16'	2.00"											16'	2.00"	16'	2.00"	
8	5	R6	TRANSITION WALL	E	14							2'	7.00"	15'	0.00"			2'	3.20"	15'	3.62"	17'	7.00"	17'	7.00"	147
4	5	R7	TRANSITION WALL	E	20					18'	11.00"	1					 					18'	11.00"	18'	11.00"	159

REINFORCING NOTES:

ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH THE SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

E = EPOXY COATED REINFORCEMENT.

S = STIRRUP.

X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.

V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. NO. EA. = NUMBER OF BARS OF EACH LENGTH.

NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATOR'S USE (NEAREST INCH).

ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.

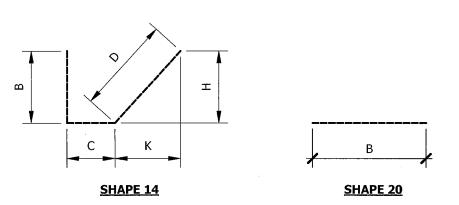
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS, LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.

REINFORCING STEEL (GRADE 60) = FY 60,000 PSI.

NOTE: EXPANSION JOINT GAP IS 2 1/4" @60 DEGREE VARIES 1/8" FOR EVERY 10 DEGREES F.

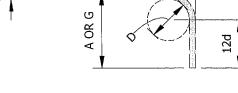
BARRIER REINFORCING ELEVATION

SCALE: 1/2" = 1'-0"



BENDING DIAGRAM SCALE: N.T.S.

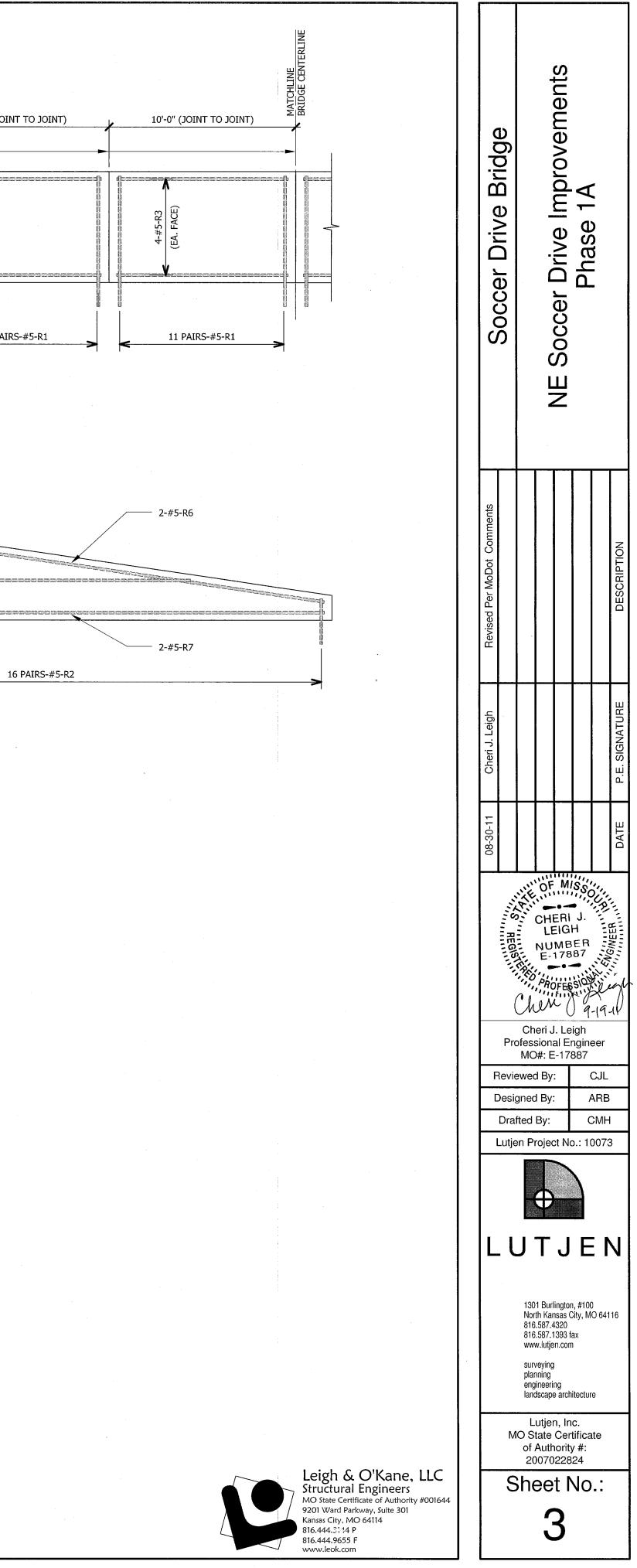
BAR		180 DEG	. HOOKS	90 DEG. HOOKS
SIZE	D (IN.)	A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

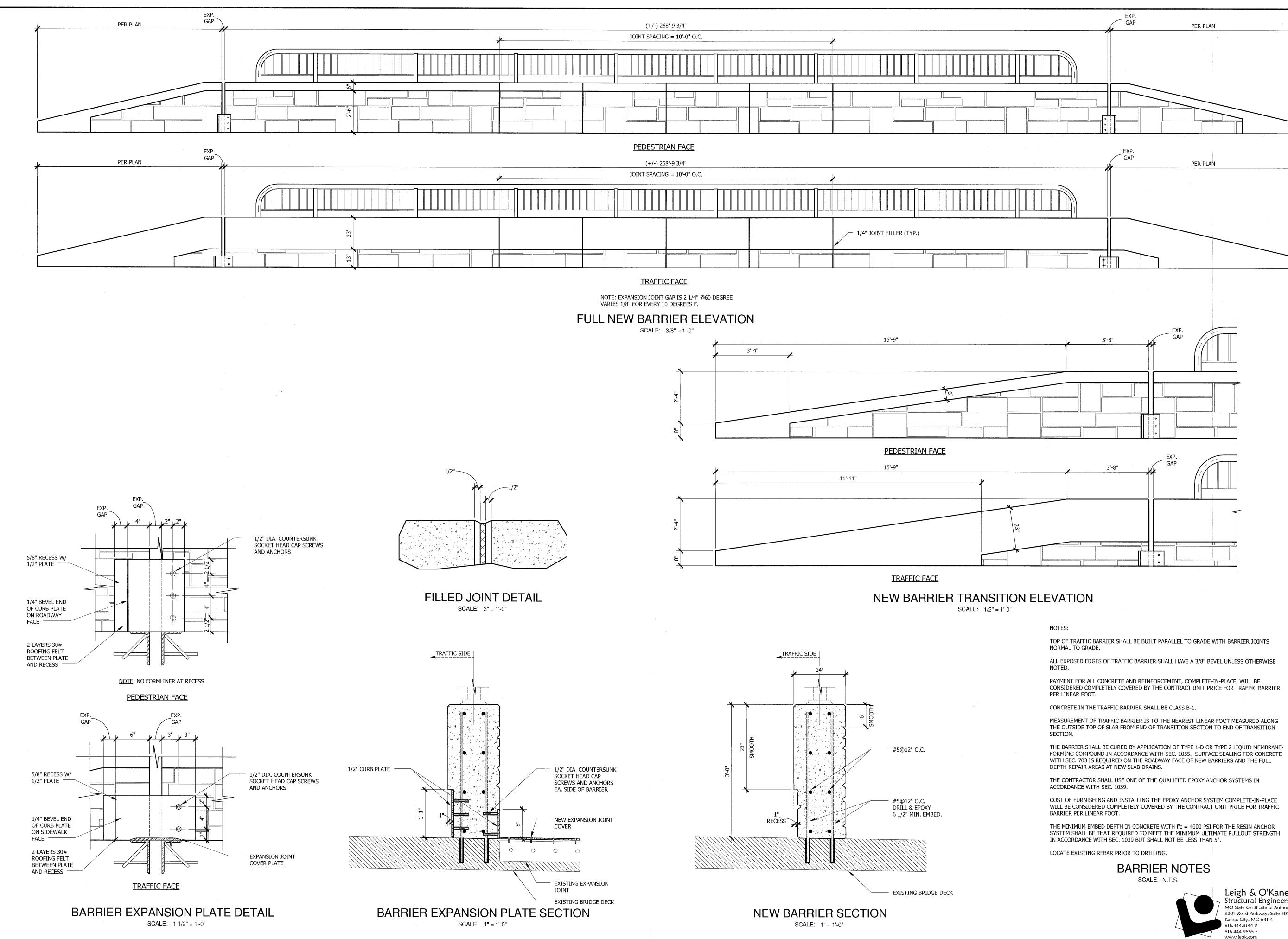




<u>90 DEG. HOOK</u>

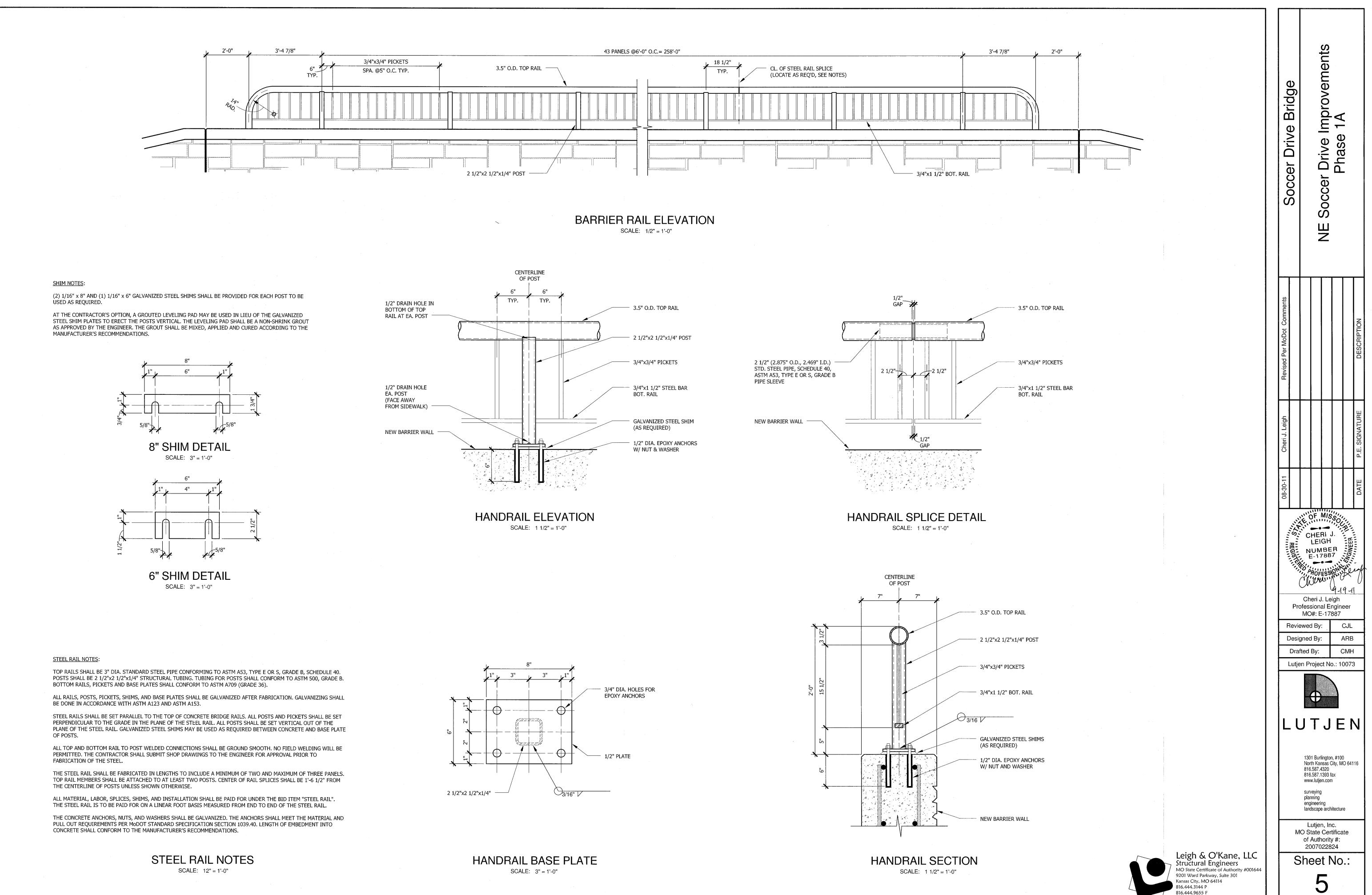
<u>180 DEG. HOOK</u>

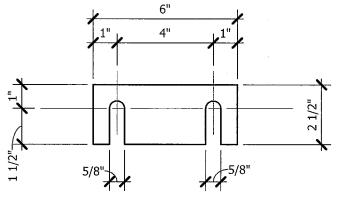


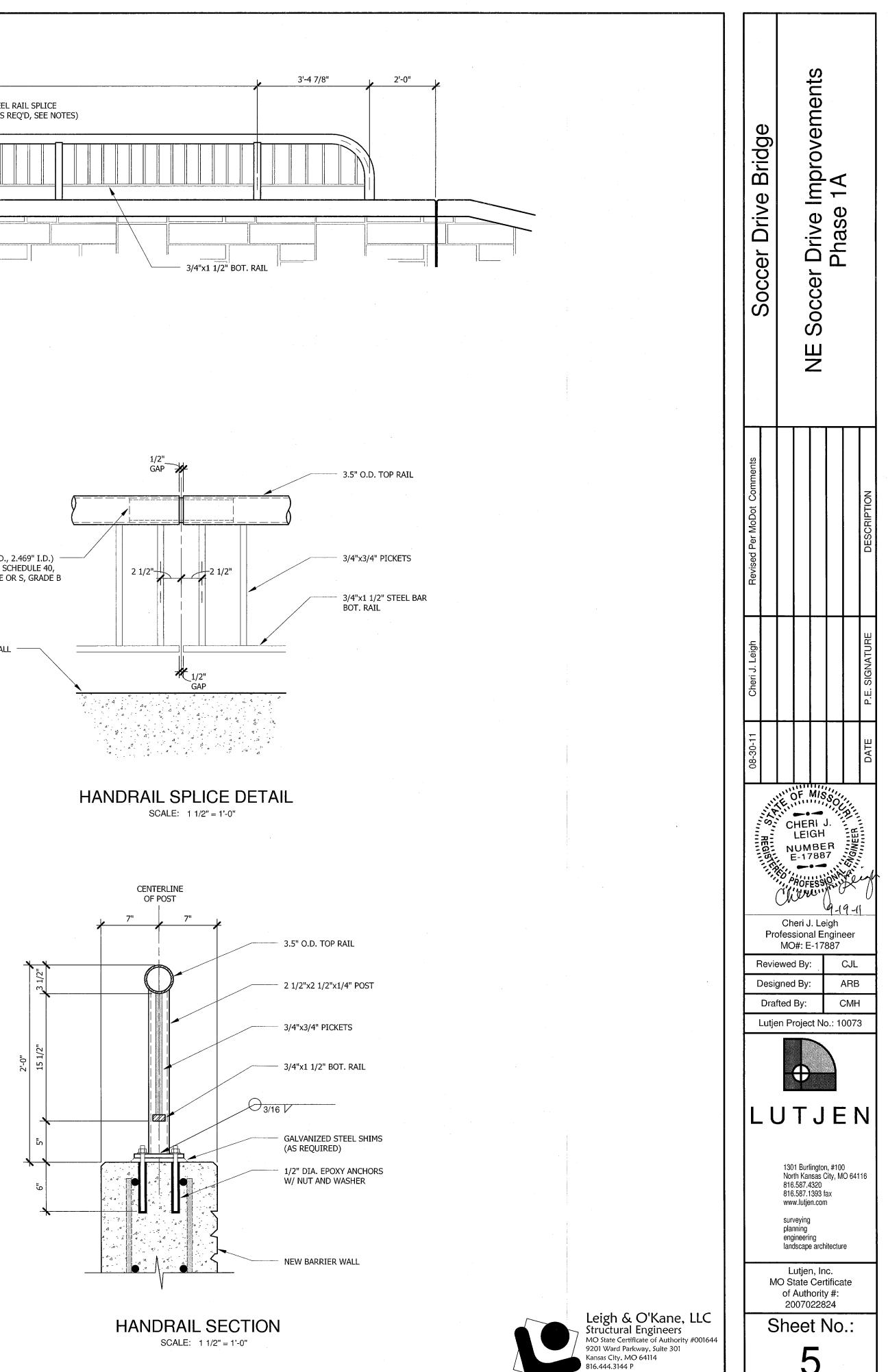


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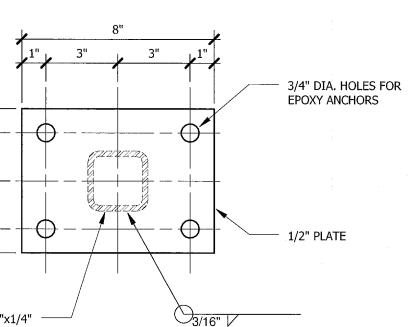
ents en Soccer Drive Bridge Improve 31A Drive I Phase er Socc Ш Z OF MISSO ize, **67-0**-40 CHERI J. LEIGH **二**丘 Relation NUMBER E-17887 PROFESSN Cheri J. Leigh Professional Engineer MO#: E-17887 CJL Reviewed By: Designed By: ARB CMH Drafted By: Lutjen Project No.: 10073 LUTJEN 1301 Burlington, #100 North Kansas City, MO 64116 816.587.4320 816.587.1393 fax www.lutjen.com surveying planning engineering landscape architecture Lutjen, Inc. MO State Certificate of Authority #: 2007022824 Sheet No.: 4



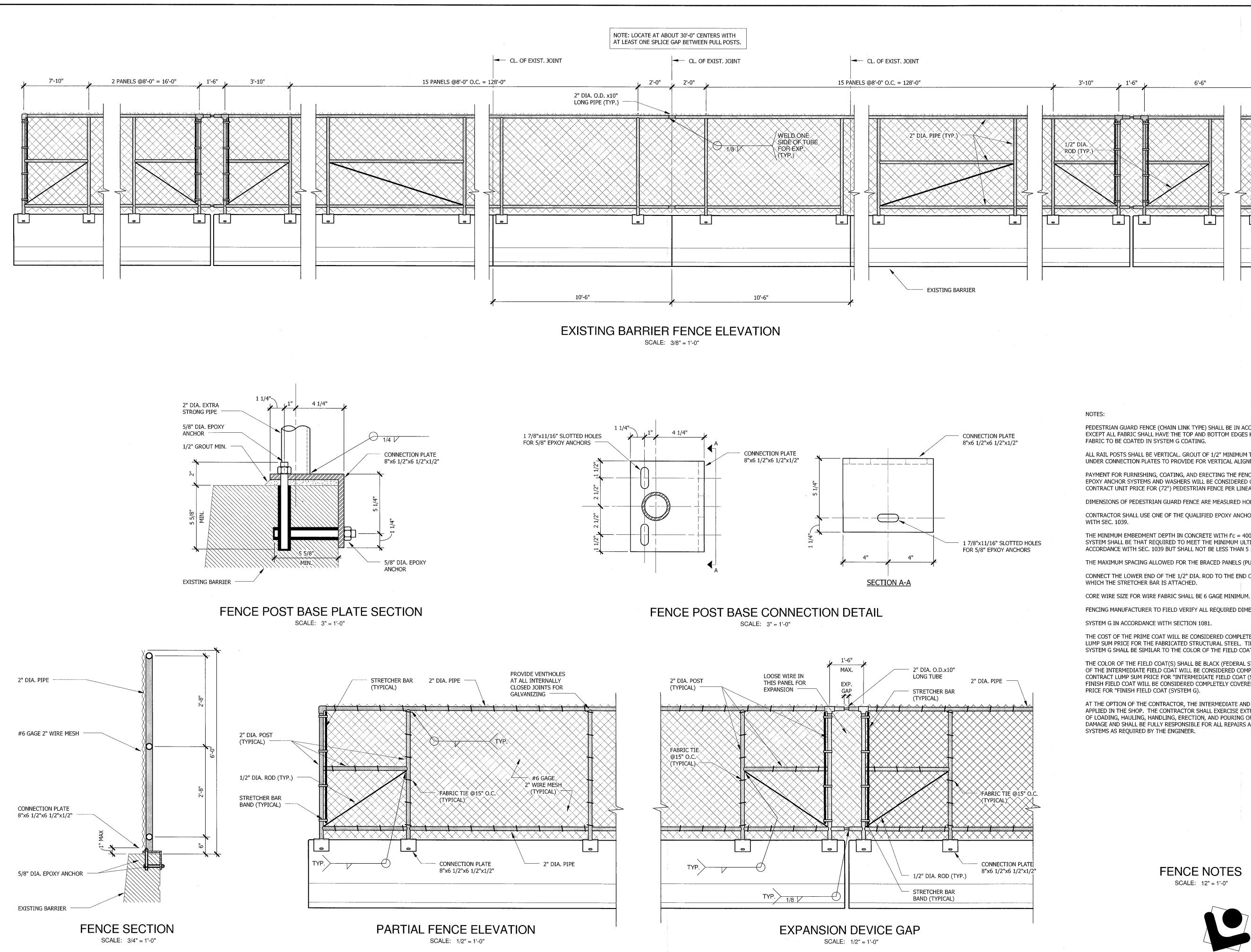




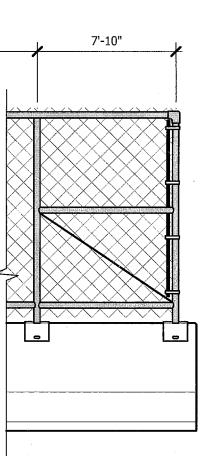
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PEDESTRIAN GUARD FENCE (CHAIN LINK TYPE) SHALL BE IN ACCORDANCE WITH SEC. 1043, EXCEPT ALL FABRIC SHALL HAVE THE TOP AND BOTTOM EDGES KNUCKLED. ALL PIPES AND

ALL RAIL POSTS SHALL BE VERTICAL. GROUT OF 1/2" MINIMUM THICKNESS SHALL BE PLACED UNDER CONNECTION PLATES TO PROVIDE FOR VERTICAL ALIGNMENT OF RAIL POSTS.

PAYMENT FOR FURNISHING, COATING, AND ERECTING THE FENCE AND FRAME COMPLETE WITH EPOXY ANCHOR SYSTEMS AND WASHERS WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR (72") PEDESTRIAN FENCE PER LINEAR FOOT.

DIMENSIONS OF PEDESTRIAN GUARD FENCE ARE MEASURED HORIZONTALLY.

CONTRACTOR SHALL USE ONE OF THE QUALIFIED EPOXY ANCHOR SYSTEMS IN ACCORDANCE

THE MINIMUM EMBEDMENT DEPTH IN CONCRETE WITH f'c = 4000 PSI FOR THE EPOXY ANCHOR SYSTEM SHALL BE THAT REQUIRED TO MEET THE MINIMUM ULTIMATE PULLOUT STRENGTH IN ACCORDANCE WITH SEC. 1039 BUT SHALL NOT BE LESS THAN 5 5/8" EMBED.

THE MAXIMUM SPACING ALLOWED FOR THE BRACED PANELS (PULL POSTS) IS 100FT.

CONNECT THE LOWER END OF THE 1/2" DIA. ROD TO THE END OF THE BRACED PANEL TO

FENCING MANUFACTURER TO FIELD VERIFY ALL REQUIRED DIMENSIONS.

THE COST OF THE PRIME COAT WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT LUMP SUM PRICE FOR THE FABRICATED STRUCTURAL STEEL. TINT OF THE PRIME COAT FOR SYSTEM G SHALL BE SIMILAR TO THE COLOR OF THE FIELD COAT TO BE USED.

THE COLOR OF THE FIELD COAT(S) SHALL BE BLACK (FEDERAL STANDARD #17038). THE COST OF THE INTERMEDIATE FIELD COAT WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT LUMP SUM PRICE FOR "INTERMEDIATE FIELD COAT (SYSTEM G)". THE COST OF THE FINISH FIELD COAT WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT LUMP SUM

AT THE OPTION OF THE CONTRACTOR, THE INTERMEDIATE AND FINISH FIELD COAT(S) MAY BE APPLIED IN THE SHOP. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING ALL PHASES OF LOADING, HAULING, HANDLING, ERECTION, AND POURING OF THE SLAB TO MINIMIZE DAMAGE AND SHALL BE FULLY RESPONSIBLE FOR ALL REPAIRS AND CLEANING OF THE COATING

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