CLR PROJECT #1-17-ST-56B 13TH STREET BRIDGE REPAIR OVER UNION PACIFIC RAILROAD

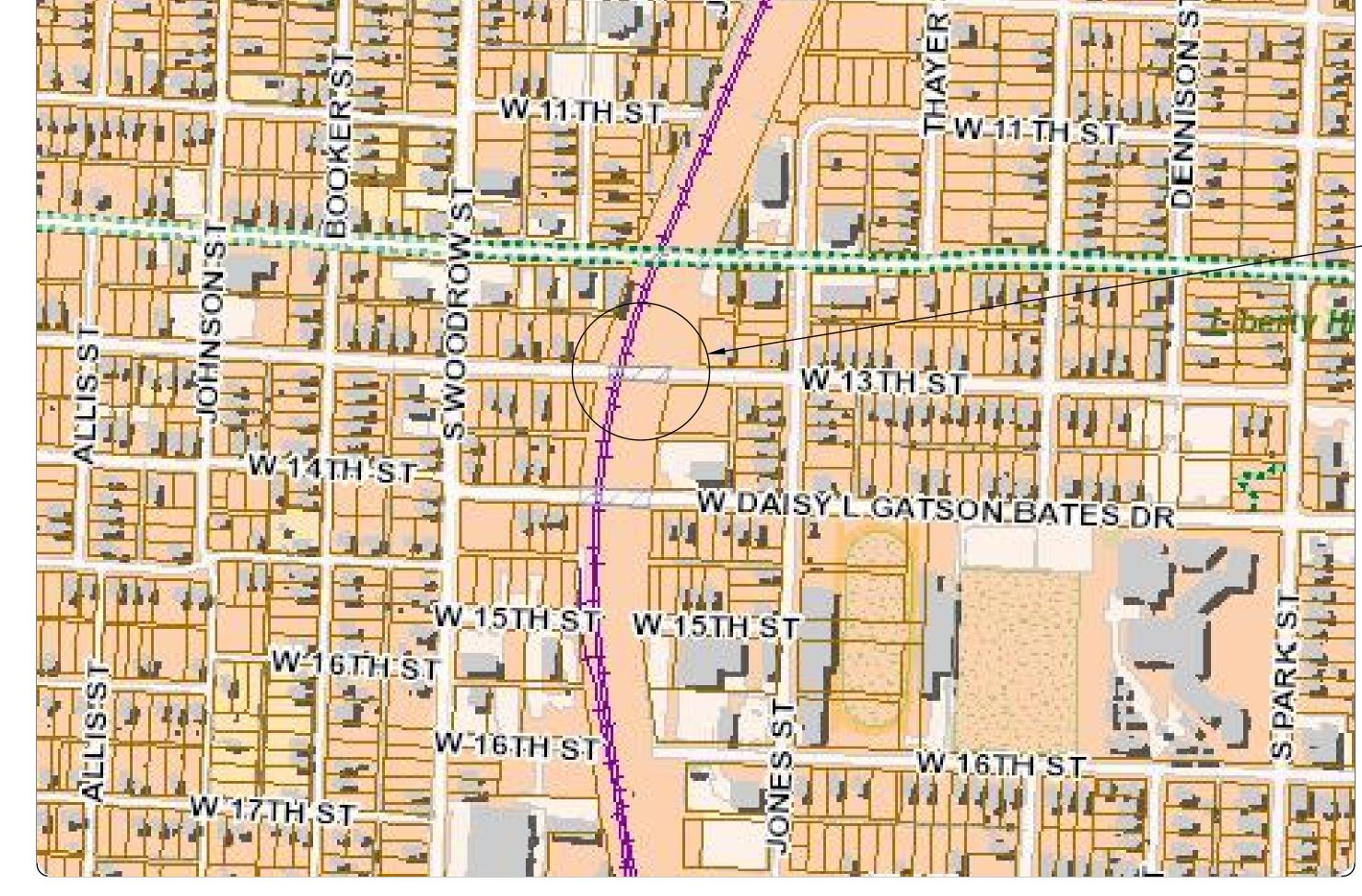
LITTLE ROCK, AR

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SHEET NO.	TITLE
S1	COVER SHEET
S2	QUANTITIES & GENERAL NOTES
S3	BRIDGE LAYOUT
S4	BORING LOGS
S5	BORING LOGS
S6	TYPICAL SECTIONS
S7	REINFORCED CONCRETE SLAB DETAILS
S8	REINFORCED CONCRETE SLAB DETAILS
S9	REINFORCED CONCRETE SLAB DETAILS
S10	EXPANSION JOINT DETAILS
S11	APPROACH GUTTER DETAILS
S12	END BENT 1 DETAILS
S13	MISCELLANEOUS DETAILS
S14	MAINTENANCE OF TRAFFIC

LOCATION

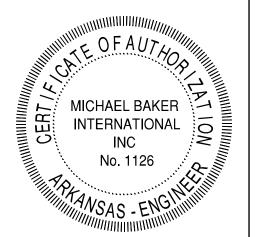






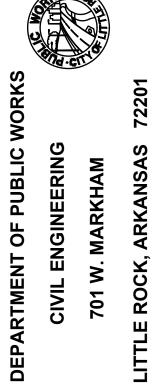
2019-2021 **BOND PROGRAM**

DEPARTMENT OF PUBLIC WORKS CIVIL ENGINEERING WEST MARKHAM STREET LITTLE ROCK, ARKANSAS 72201



Michael Baker

1400 W. MARKHAM ST., SUITE 204 LITTLE ROCK, AR 72201 501-907-6223



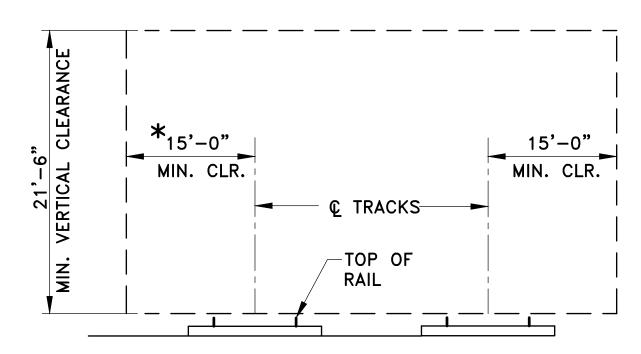


DRAWN BY DESIGNED SCR CHECKED DATE 12/2020 **SCALE** N.T.S. PROJECT NO.

CLR #1-17-ST-56B

SHEET NO.

	CLR PROJECT #1-17-ST-56B		
	13th ST. BRIDGE REPAIR		
	SEPTEMBER 2021		
			<u> </u>
ITEM#	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	L.S.	1
2.02	CLEARING TREES	ACRE	0.10
1.01	AGGREGATE BASE COURSE	TON	20
5.01	TACK COAT	GAL.	30
6.01	ACHM SURFACE COURSE	TON	70
8.01	CONCRETE CURB AND GUTTER (UPRIGHT, MATCH EXISTING)	L.F.	25
9.04	CONCRETE SIDEWALK (4" THICK)	S.F.	610
24.18	DISTURBED AREA STABILIZATION - SEED & MULCH	ACRE	0
27.10	COLD MILLING ASPHALT PAVEMENT	S.Y.	420
601	MOBILIZATION	L.S.	1
603	MAINTENANCE OF TRAFFIC	L.S.	1
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGE	C.Y.	390
802	CLASS S(AE) CONCRETE - BRIDGE	C.Y.	106
803	CLASS 1 PROTECTIVE SURFACE TREATMENT	GAL.	4
804	EPOXY COATED REINFORCING STEEL (GRADE 60)	LB.	16,500
807	STRUCTURAL STEEL IN BEAM SPANS (M270, GRADE 50)	LB.	770
809	SILICONE JOINT SEALANT	L.F.	44
821	MODIFICATION OF EXISTING BRIDGE STRUCTURE	L.S.	1
SP	INSURANCE, CONSTRUCTION AND FLAGGING ON RAILROAD PROPERTY	L.S.	1



RAILROAD CLEARANCE DIAGRAM (DIMENSIONS ARE PERPENDICULAR TO TRACK)

*HORIZONTAL CLEARANCE TO THE WEST MAY BE CONTROLLED BY AVAILABLE DISTANCE TO BENT 1 FOOTING. CONTRACTOR SHALL FIELD VERIFY EXISTING HORIZONTAL CLEARANCE TO EXISTING BENT 1 FOOTING.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS:

CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS (NOVEMBER 2015)

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS NOTED OTHERWISE IN THE PLANS, SECTION AND SUBSECTION NUMBERS REFER TO THE CONSTRUCTION SPECIFICATIONS.

<u>DESIGN SPECIFICATIONS:</u> (FOR NEW WORK) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17TH EDITION - 2002) LIVE LOADING: HS20

MATERIALS AND STRENGTHS:

CLASS S(AE) CONCRETE f'c = 4,000 PSIfy = 60,000 PSIREINFORCING STEEL (AASHTO M31 OR M322, TYPE A, GR. 60) STRUCTURAL STEEL (AASHTO M270, GR. 50)

SHOP DRAWINGS & REQUEST FOR SUBSTITUTIONS:

ALL SHOP DRAWINGS, MILL TEST REPORTS, AND REQUEST FOR SUBSTITUTIONS SHALL BE SENT TO THE SEALING ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

 $F_{y} = 50,000 PSI$

CONCRETE:

CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED. ALL CONCRETE SHALL BE CLASS S(AE) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH f'c = 4,000 PSI.

THE CONCRETE BETWEEN CURBS SHALL BE GIVEN A TINED FINISH IN ACCORDANCE WITH SUBSECTION 802.19 FOR CLASS 5 TINED BRIDGE ROADWAY SURFACE FINISH. SIDEWALKS AND CURBS SHALL BE GIVEN A CLASS 6 BROOMED FINISH.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, TYPE A GR. 60 AND SHALL BE EPOXY COATED. MILL TEST REPORTS SHALL BE SUBMITTED FOR REINFORCING STEEL. THE REINFORCING STEEL IS TO BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY STEEL WIRE SUPPORTS, SUFFICIENT IN NUMBER AND SIZE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION. THE WIRE SUPPORTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "EPOXY COATED REINFORCING STEEL (GRADE 60)." ANY DAMAGE TO EPOXY COATING DURING FABRICATION, SHIPPING, INSTALLATION, FIELD CUTTING OR BENDING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 804.05.

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE AASHTO M270, GRADE 50 AND SHALL BE PAID FOR AS "STRUCTURAL STEEL IN BEAM SPANS (M270, GR. 50)" UNLESS OTHERWISE NOTED.

DRAWINGS SHOW GENERAL FEATURES OF DESIGN ONLY. SHOP DRAWINGS SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS, SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

REQUESTS FOR SUBSTITUTION OF STRUCTURAL STEEL WITH SHAPES OF GREATER SIZE MUST BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL. STEEL OF EQUAL OR GREATER STRENGTHS WILL BE ACCEPTED ONLY WHEN SHOWN ON THE APPROVED SHOP DRAWINGS. PAYMENT WILL BE BASED ON THE SHAPES SHOWN IN THE PLANS, AND NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY ADJUSTMENTS DUE TO SUBSTITUTIONS.

ALL WELDING THAT IS TO BE DONE DURING FABRICATION OF STRUCTURAL STEEL. INCLUDING TEMPORARY WELDS, SHALL BE DETAILED ON THE SHOP DRAWINGS AND SUBMITTED FOR APPROVAL. IF ADDITIONAL WELDS ARE REQUIRED, WHETHER PERMANENT OR TEMPORARY, A FORMAL REQUEST WITH DETAILED DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THERE ARE NO EXISTING BRIDGE PLANS AVAILABLE. ALL DIMENSIONS AND DATA USED FOR NEW DETAILS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION TO ENSURE COMPATIBILITY OF NEW WORK WITH THE EXISTING STRUCTURE.

<u>SILICONE JOINT SEALANT:</u>

THE NEW SILICONE JOINT SEALANT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SUBSECTIONS 809.02(c) AND 809.03(c).

MODIFICATION OF EXISTING BRIDGE STRUCTURES:

THE COST OF ALL LABOR, MATERIALS, AND INCIDENTALS TO MODIFY EXISTING EXPANSION JOINTS AT ABUTMENT NO. 1 SHALL BE INCLUDED IN ITEM "MODIFICATION OF EXISTING BRIDGE STRUCTURES (BRIDGE NO.1)". THIS INCLUDES SAW CUTTING, REMOVING PORTION OF EXISTING CONCRETE AT ABUTMENT BACKWALLS AND END OF SPAN NO. 1 FOR JOINTS AT BRIDGE END, AND CLEANING EXISTING REINFORCING TO REMAIN. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 821.

EXISTING UTILITIES:

THERE IS A POSSIBILITY THAT UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE PLANS. AND THE LOCATION OF THE UTILITIES MAY VARY FROM THE APPROXIMATE LOCATION SHOWN ON THE PLANS. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITY ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE SYSTEM.

UNION PACIFIC RAILROAD CONTACT

DOUGLAS WOODS, MANAGER OF INDUSTRY & PUBLIC PROJECTS PHONE: (281) 350-7609 (OFFICE)

(832) 493-4556 (CELL) DGWOODS@UP.COM

24125 OLD ALDINE WESTFIELD RD. SPRING. TX 77373

RAILROAD NOTES:

THE CONTRACTOR SHALL NOT OCCUPY ANY PORTION OF THE RAILROAD CLEARANCE ENVELOPE.

ALL BRIDGE REPAIR OPERATIONS SHALL BE COORDINATED WITH THE CITY OF LITTLE ROCK AND UNION PACIFIC RAILROAD AND APPROVAL SECURED PRIOR TO BEGINNING WORK.

THE CONTRACTOR SHALL USE RAILROAD FLAGMEN DURING ALL BRIDGE REPAIR OPERATIONS. AS WELL AS ANYTIME THE CONTRACTOR IS WORKING ON OR ABOVE THE RAILROAD RIGHT-OF-WAY.

WORK WITHIN 25' OF TRACK AND/OR OVER TRACK AND/OR WITH POTENTIAL TO FOUL WILL REQUIRE RAILROAD FLAGGING.

ALL EQUIPMENT, MATERIALS, AND PERSONNEL SHALL REMAIN OUTSIDE THE MINIMUM CLEARANCE ENVELOPE.

PER RAILROAD REQUIREMENTS, ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25' OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT WHEN A TRAIN PASSES THE WORK SITE.

NO EQUIPMENT OR OUTRIGGERS SHALL BE SUPPORTED ON THE TRACK OR TIES UNDER LOAD AT ANY TIME.

REVISIONS

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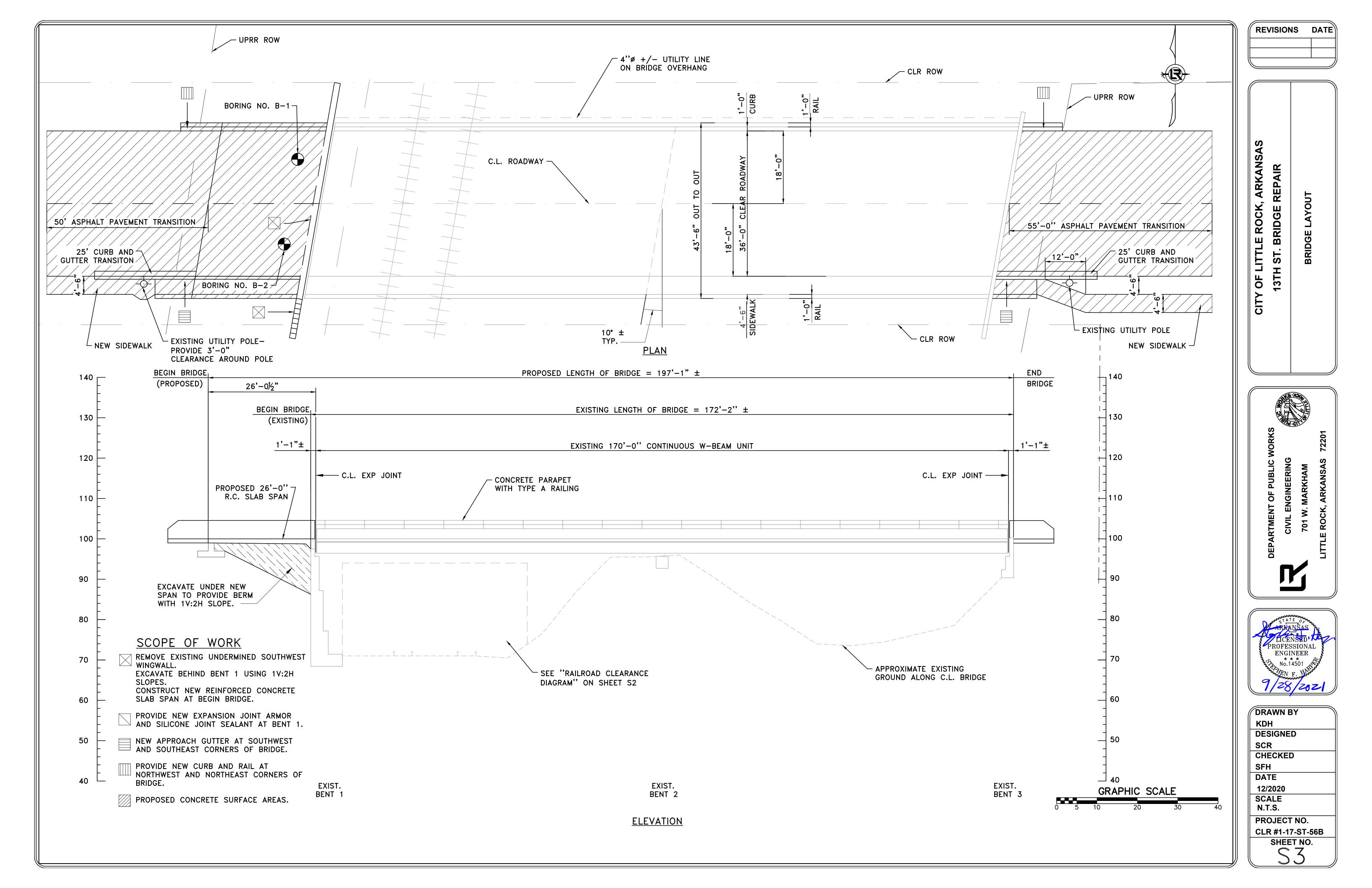




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CLR #1-17-ST-56B SHEET NO.

RYAN WRIGHT, PUBLIC PROJECT MANAGER, BENESCH & CO., SHALL BE CONTACTED FOR PRE-CONSTRUCTION MEETING. rwright@benesch.com, DIRECT: 312-819-9766, MOBILE: 479-222-5279



PRO	OJECT:	13th Street Railroad Bridg	е	CLIENT:				Internation kansas	al, LL	C		
SIT	E:	13th Street Little Rock, Arkansas					•					
507	LOCATIO	N See Exploration Plan			(t)	/EL ONS	/PE	Los	(%)		ATTERBERG LIMITS	j U
GRAPHIC	Latitude: 34 DEPTH	.7389° Longitude: -92.3044°			DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	LL-PL-PI	
		- CLAYEY SAND (SC), brown and	reddish-brown		-	_	X	5-3-3 N=6	9			
					-			3-2-4 N=6	12		38-15-23	4
					5-		X	3-3-4 N=7	14			
					-	_		3-3-4 N=7	16			
		Y CLAY WITH SAND (CL-ML) , gray	v, medium stiff		- - 10-		X	4-2-4 N=6	21		23-18-5	7
	13.5 <u>CLA</u>)	YEY SHALE , reddish-brown and gr	ay, soft rock		15-			5-9-11 N=20				
	18.5 HIGH	ILY WEATHERED SHALE, gray an	d reddish-brown, soft rock	(20-	-		10-12-16 N=28				
	Stratificati	on lines are approximate. In situ, the transi	tion may be gradual		25	Han	amar T	15-23-33 N=56 ype: Automatic				
dvano	Stratification	on lines are approximate. In-situ, the transi		ofine Person	o for -	Note		ype. Automatic				
0 to 3	30 feet: Soli	d-stem auger nod:	See Exploration and Tedescription of field and I used and additional data See Supporting Informations symbols and abbreviation	aboratory proce a (If any). t <mark>ion</mark> for explana	edures	14016	. .					
Borin	ng backfilled ace capped	l with Auger Cuttings with concrete										
		R LEVEL OBSERVATIONS water observed				Boring	Starte	ed: 03-06-2019	Borir	ng Com	pleted: 03-06-	-201
				9130		Drill R	ig: CM	E 679	Drille	er: JB		

	OJECT: 13th Street Railroad Bridge	CLIENT:	CLIENT: Michael Baker International, LLC Little Rock, Arkansas							
SI	ΓΕ: 13th Street Little Rock, Arkansas			-	•					
ဖွ	LOCATION See Exploration Plan		1	i S	ш				ATTERBERG LIMITS	SE
GRAPHIC LOG	Latitude: 34.7389° Longitude: -92.3044°		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	LL-PL-PI	PERCENT FINES
<u> </u>	DEPTH HIGHLY WEATHERED SHALE, gray and red	ddish-brown, soft rock		>8	Ś					B
	(continued)		-	-		15-15-16				
\bigotimes	30.0 Boring Terminated at 30 Feet		30-			N=31				
	Stratification lines are approximate. In-situ, the transition n	nay be gradual.		Hai	mmer	Type: Automatic				
0 to	donment Method: donment Method: ing backfilled with Auger Cuttings	See Exploration and Testing Procedure description of field and laboratory procused and additional data (If any). See Supporting Information for explanation symbols and abbreviations.	edures	Hai		Type: Automatic				
0 to	ncement Method: 0 30 feet: Solid-stem auger	See Exploration and Testing Procedure description of field and laboratory procused and additional data (If any).	edures	Note	es:	Type: Automatic	Pori	00 Com	pleted: 03-06-2	2010

CITY OF LITTLE ROCK, ARKANSAS 13TH ST. BRIDGE REPAIR

BORING LOGS



CIVIL ENGINEERING 701 W. MARKHAM





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		BORING I	LOG NO.	B-2	2				ŗ	Page 1 of	1	
PRO	JECT: 13th Street Railroad Bridg	e	CLIENT: Michael Baker International, LLC Little Rock, Arkansas									
SITE	: 13th Street Little Rock, Arkansas		Little Nock, Alkalisas									
9 LC	DCATION See Exploration Plan			<u> </u>	NS NS	出		(%)	€	ATTERBERG LIMITS	U L	
GRAPHIC	titude: 34.7389° Longitude: -92.304°			DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	LL-PL-PI	DEBCENT FINES	
	FILL - CLAYEY SAND (SC), reddish-bro	wn, gray and brown		_		X	8-7-4 N=11	3				
				_	_		3-2-3 N=5	9	-		2	
				- 5 -		X	3-3-4 N=7	16				
				- -	_	X	3-3-5 N=8	16		40-13-27	4	
				_	1							
				- 10-		X	2-2-3 N=5	18				
				-	_							
13	.5			_	1							
15	LEAN CLAY (CL) , with rock fragments,	brown and gray, hard		- 15-		\bigvee	17-25-14 N=39	11				
	Boring Terminated at 15 Feet			10								
S	Stratification lines are approximate. In-situ, the transi	tion may be gradual.			 Har	mmer	Type: Automatic					
	nent Method: feet: Solid-stem auger	See Exploration and description of field ar used and additional of	Testing Procedures fond laboratory procedure lata (If any).	or a res	Note	es:						
Boring	ment Method: backfilled with Auger Cuttings e capped with concrete	See Supporting Infor symbols and abbrevi	mation for explanation ations.	ı of								
٨	WATER LEVEL OBSERVATIONS No free water observed	V PA BY BY PA	160 AK 52 12 ¹⁰ 2 4 45 ²⁰	0 ⁴² 0	Boring	g Start	ted: 03-06-2019	Bori	ng Com	pleted: 03-06-	-2019	
ľ	NO 1100 WALEI ODSEIVEU			P]	Drill F	Rig: CI	ME 679	Drill	er: JB			

CITY OF LITTLE ROCK, ARKANSAS 13TH ST. BRIDGE REPAIR



CIVIL ENGINEERING
701 W. MARKHAM





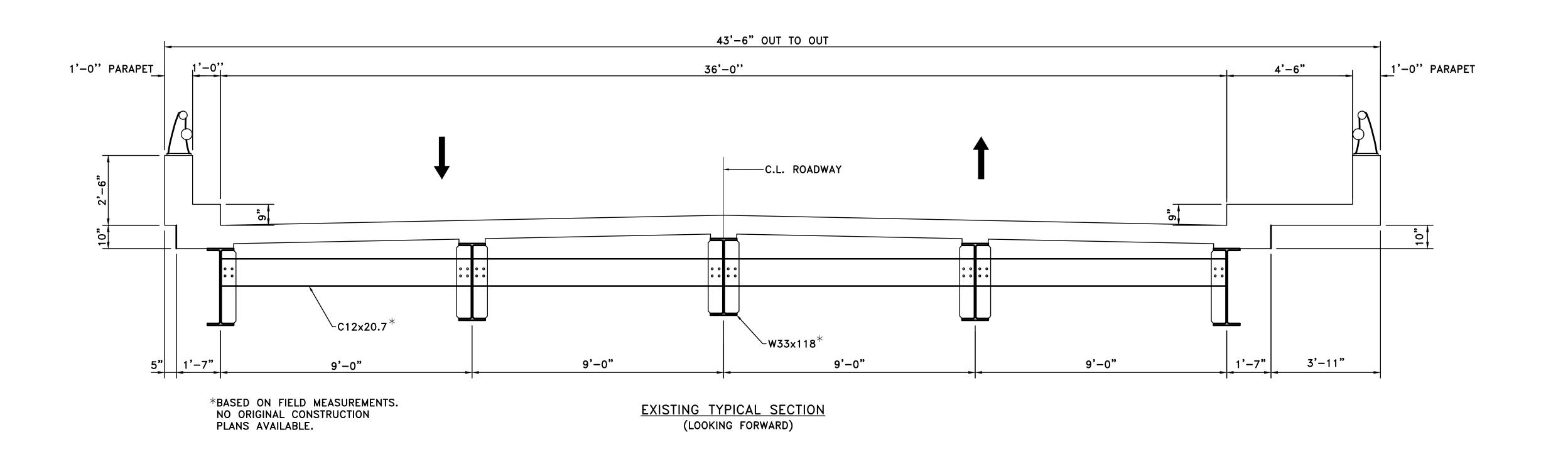
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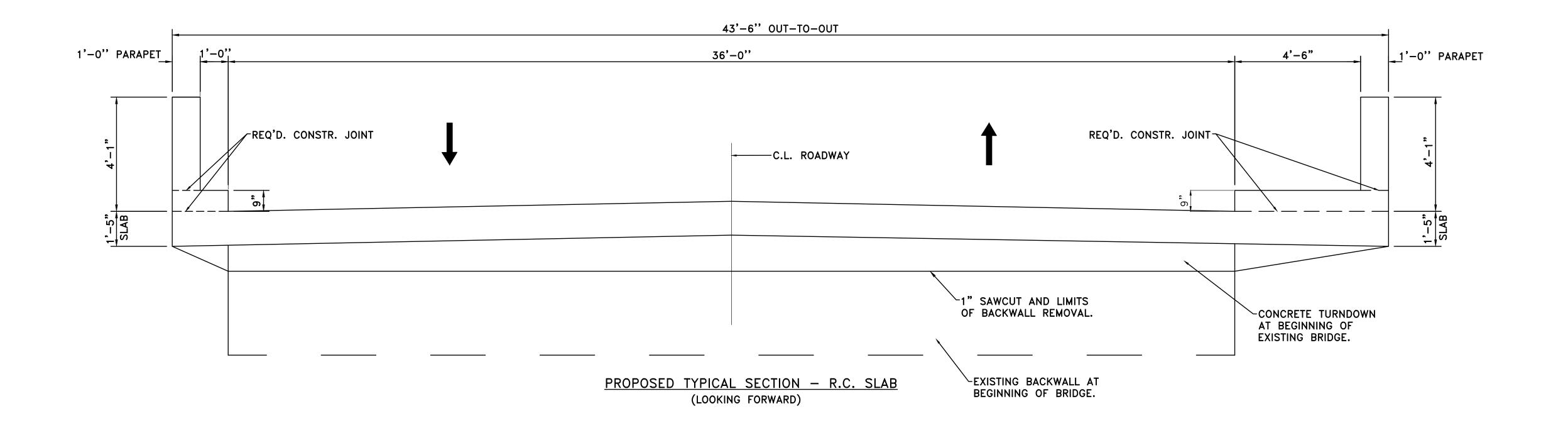
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SCALE N.T.S.

PROJECT NO.
CLR #1-17-ST-56B
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CITY OF LITTLE ROCK, ARKANSAS 13TH. ST. BRIDGE REPAIR

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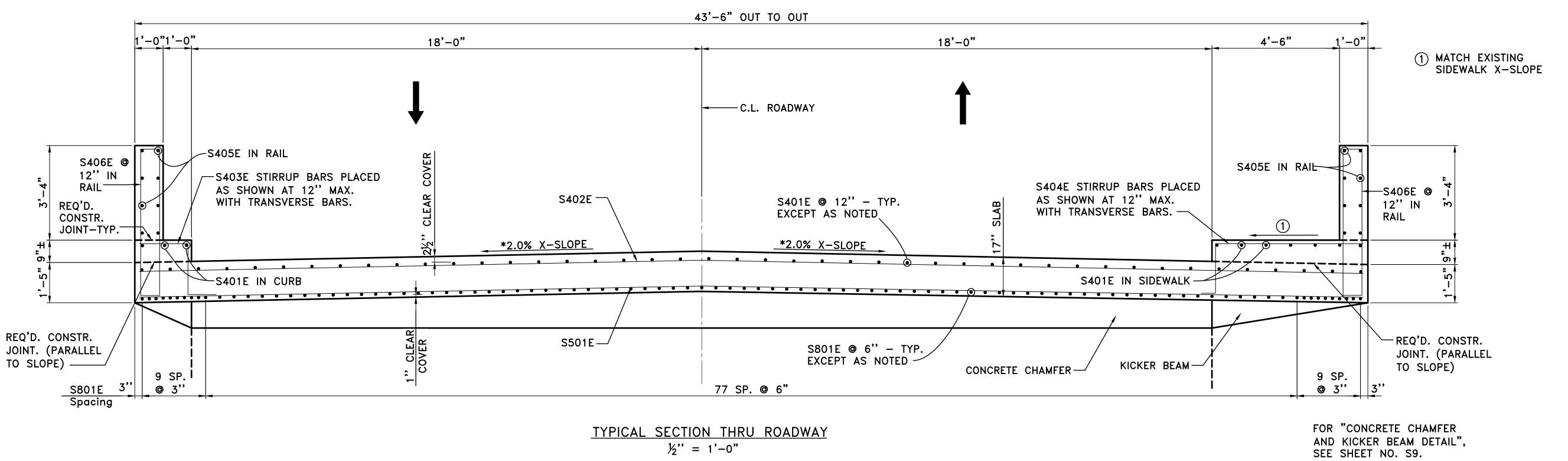
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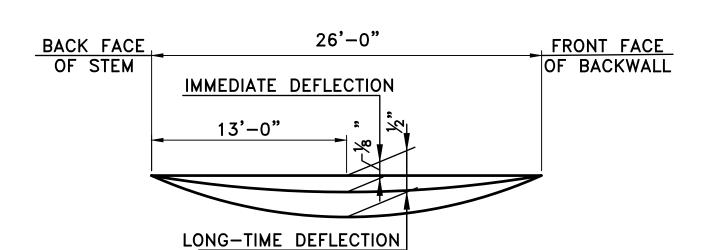


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PROJECT NO.

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*THERE ARE NO EXISTING BRIDGE PLANS AVAILABLE.
ALL DIMENSIONS AND DATA USED FOR NEW DETAILS
SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO
FABRICATION TO ENSURE COMPATIBILITY OF NEW WORK
WITH THE EXISTING STRUCTURE.



DEFLECTIONS SHOWN ARE FROM A CHORD FROM BACK FACE OF STEM TO FRONT FACE OF BACWALL. VERTICAL ALIGNMENT CORRECTIONS ARE NOT INCLUDED. TOLERANCE +1/4" FOR CAMBER AND VERTICAL ALIGNMENT.

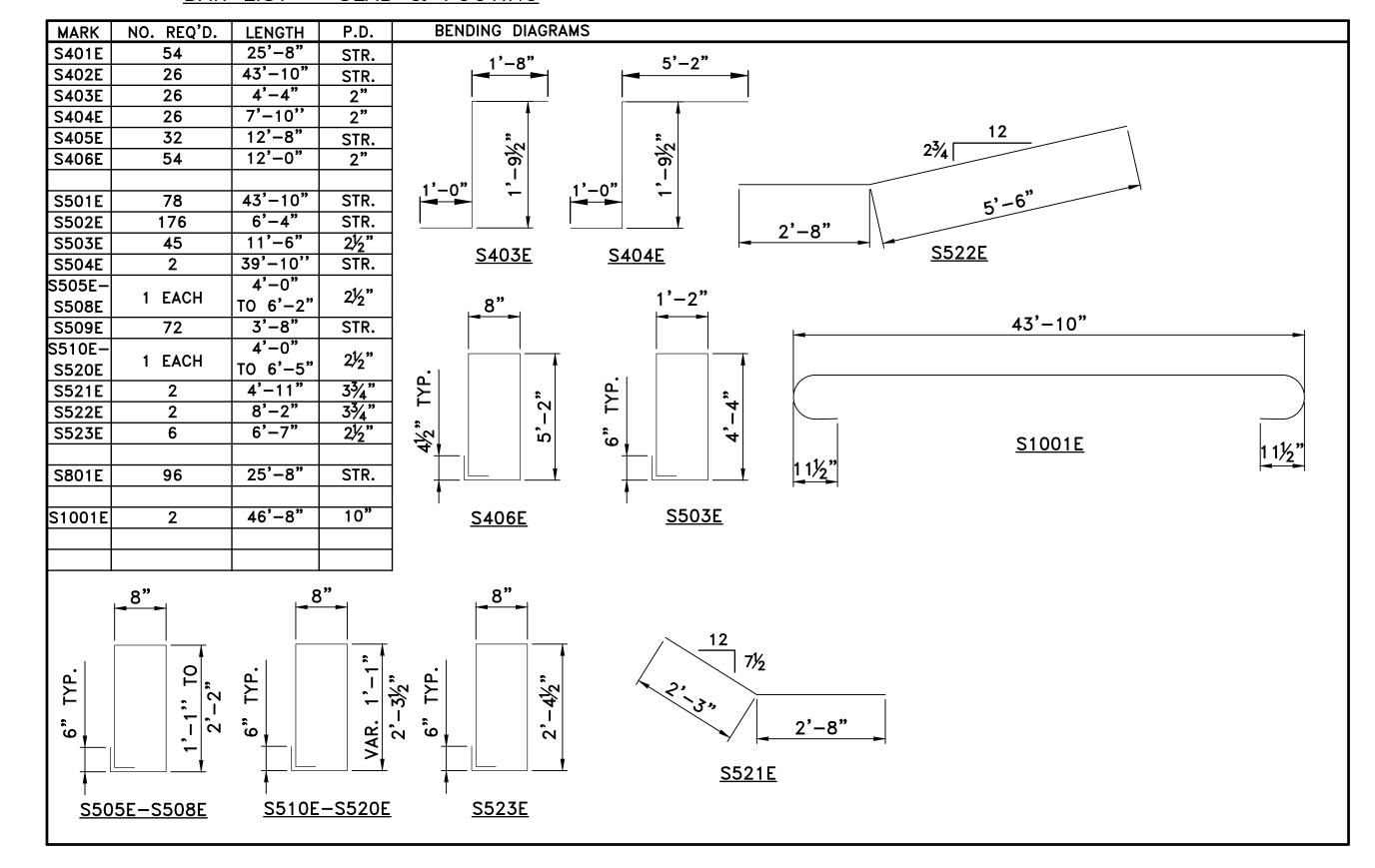
DEAD LOAD DEFLECTION DIAGRAM NO SCALE

GENERAL NOTES

ALL CONCRETE SHALL BE CLASS "S(AE)" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH f'c = 4,000 PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

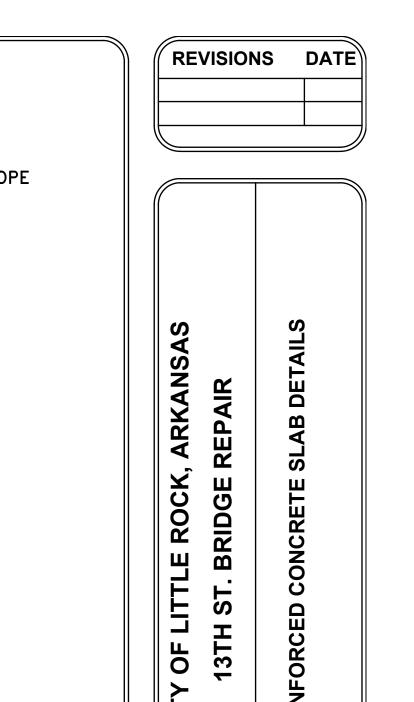
ALL REINFORCING STEEL SHALL BE EPOXY COATED AND CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

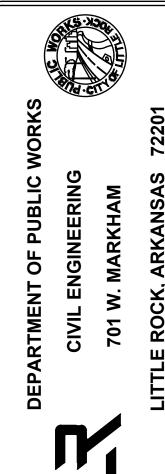
BAR LIST - SLAB & FOOTING



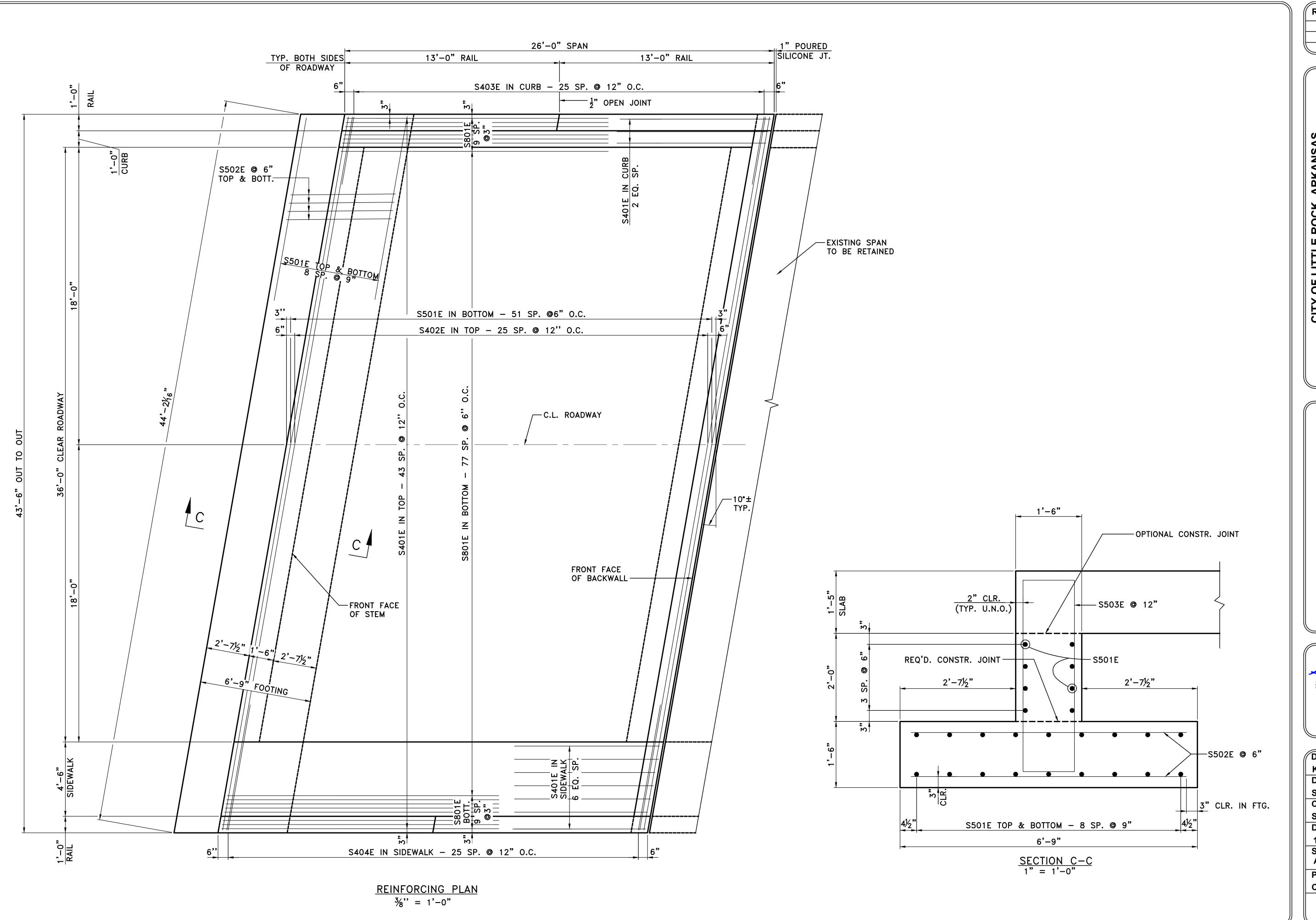
NOTES:
DIMENSIONS OF BARS ARE
OUT-TO-OUT.

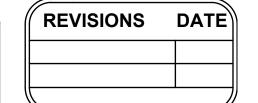
ALL BARS DESIGNATED WITH AN "E" SUFFIX ARE TO EPOXY COATED.











CITY OF LITTLE ROCK, ARKANS, 13TH ST. BRIDGE REPAIR

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ENGINEERING





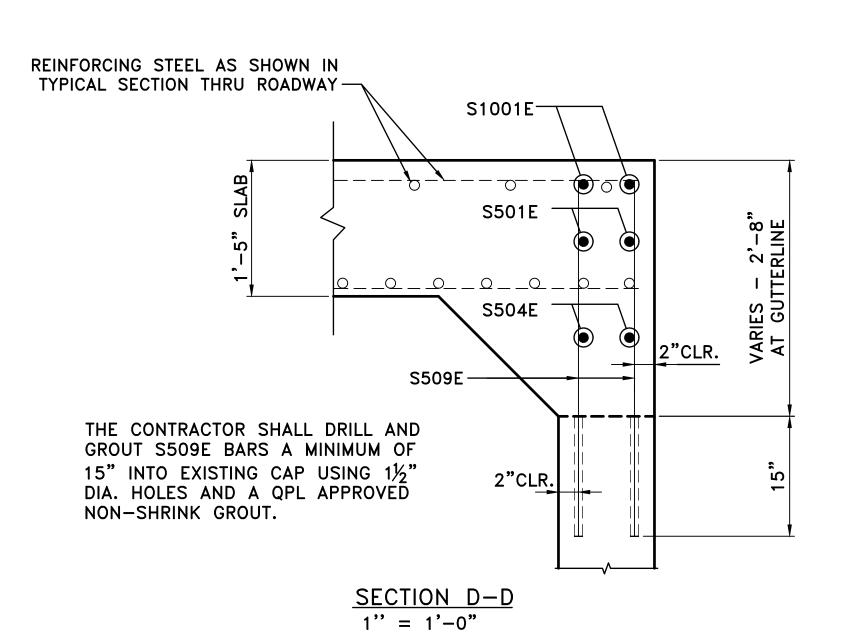
CONCRETE CHAMFER AND KICKER BEAM DETAIL $\frac{1}{2}$ " = 1'-0"

36'-0"

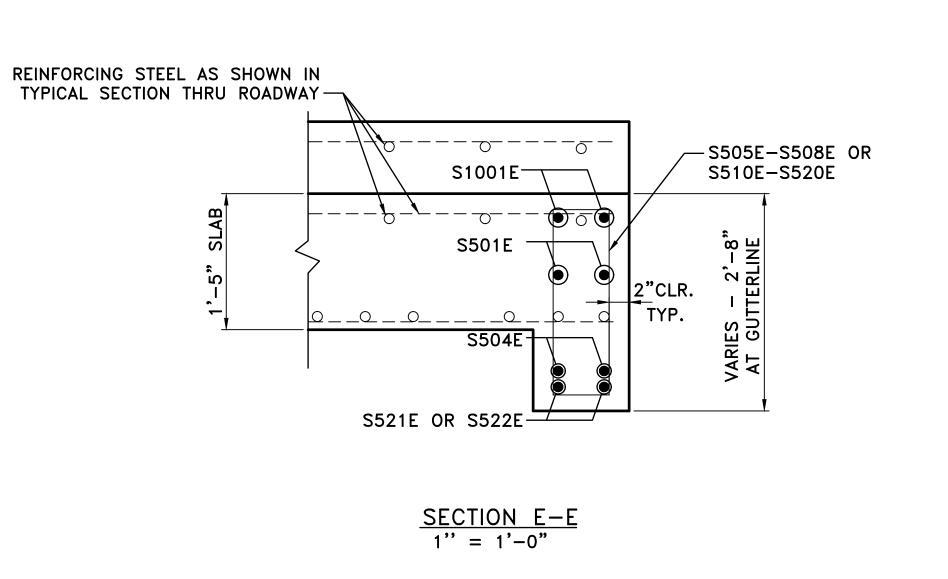
1 THE CONTRACTOR SHALL FIELD-VERIFY CANTILEVER DIMENSIONS PRIOR TO CONSTRUCTION.

S510E-S520E 10 SP. @ 6"

1 5'-6"



2'-0"



REVISIONS DATE

ROCK, BRIDGE OF LITTLE





SILICONE JOINT DATA

BRIDGE LOCATION	BENT NO.	TO JOIN	WIDTH PERF T 24 HOUR IPERATURE 60° F	AVERAGE	"D"
13TH ST. BRIDGE OVER UPRR	1	11/8"	1"	7/8"	5"

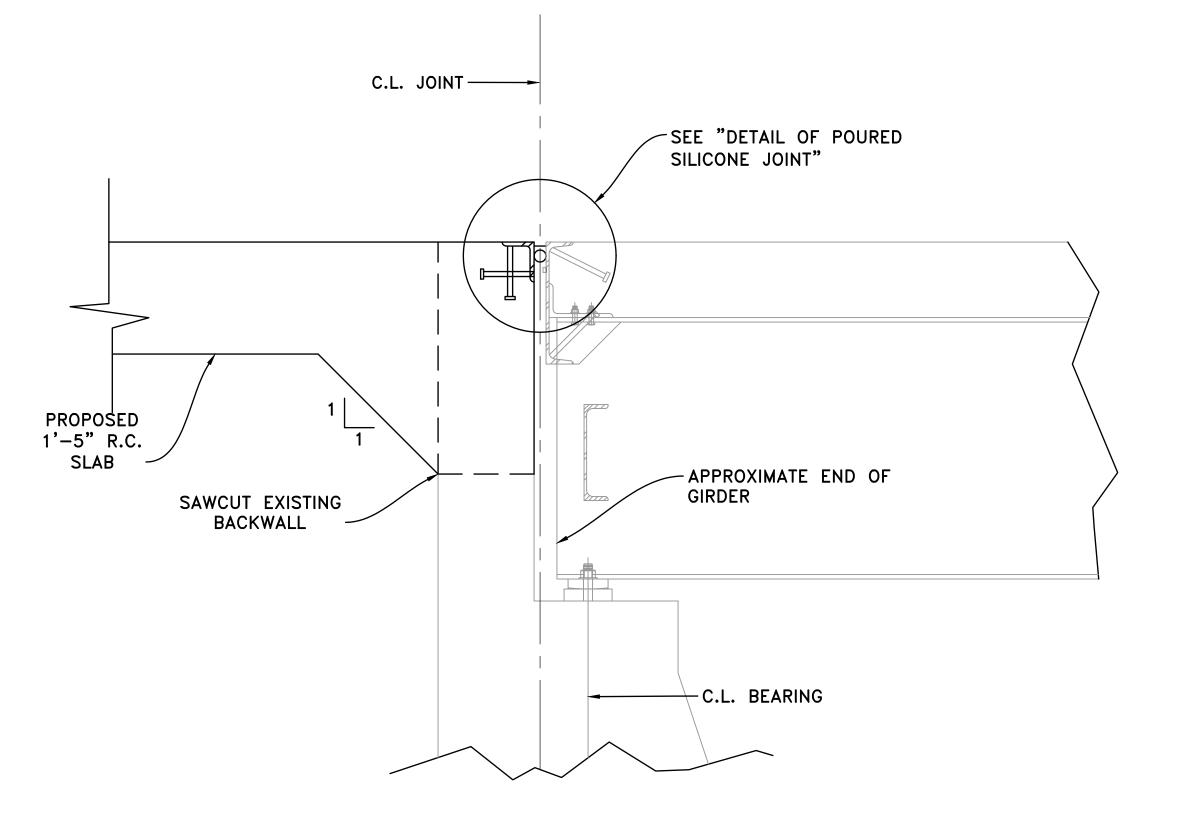
*THE TEMPERATURE USED TO SET THE JOINT OPENING SHALL BE THE APPROXIMATE AVERAGE AIR TEMPERATURE DURING THE 24 HOUR PERIOD IMMEDIATELY BEFORE THE NEW SLAB IS CAST. THE ENGINEER SHALL ESTABLISH THE TEMPERATURE. INTERPOLATION OF THE TABLE MAY BE NECESSARY.

NOTES:

THE TEMPERATURE LIMITATIONS RECOMMENDED BY THE SEALANT MANUFACTURER SHALL BE OBSERVED. THE SEALANT SHALL BE INSTALLED ONLY WHEN THE AVERAGE 24 HOUR AIR TEMPERATURE IS BETWEEN 40° AND 80° F.

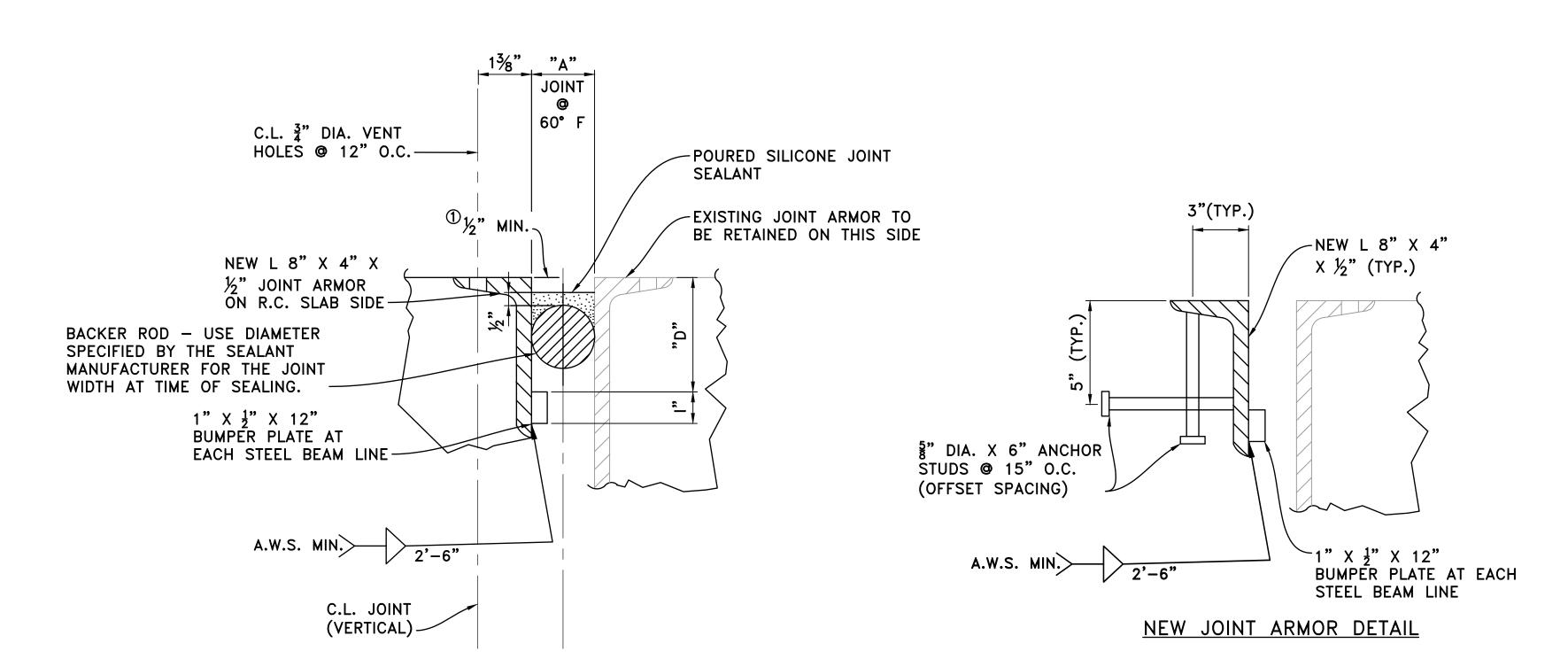
USE AN APPROPRIATELY SIZED BACKER ROD AT THE DEPTH SHOWN IN THE MANUFACTURER'S LITERATURE BASED ON THE JOINT WIDTH AT THE TIME OF SEALING. UNLESS OTHERWISE NOTED, DO NOT INSTALL MORE BACKER ROD THAN CAN BE SEALED IN THE SAME DAY.

THE CONTRACTOR SHALL VERIFY SEPARATION OF THE BACKER ROD FOR THE JOINT MATERIAL AFTER THE JOINT MATERIAL HAS SET.



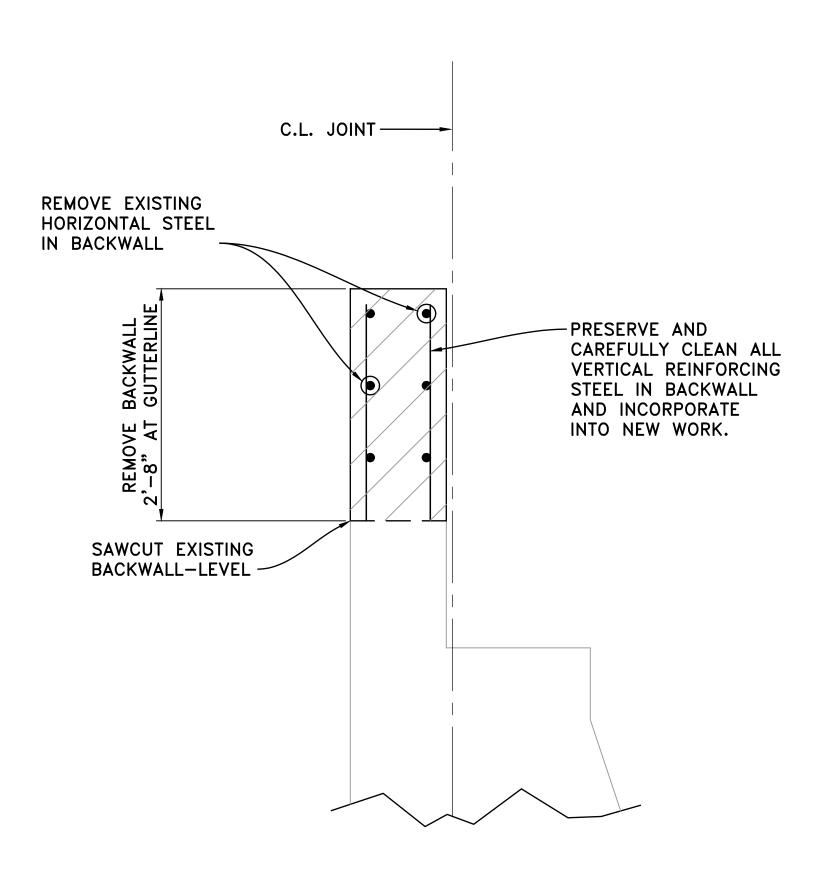
SECTION THRU JOINT AT EXIST. BENT 1

1 THE SEALANT MANUFACTURER



DETAIL OF POURED SILICONE JOINT

NOTE: CONCRETE SHALL BE HAND PACKED UNDER THE JOINT ARMOR IN THE NEW R.C. SLAB SPAN. FOR JOINT ARMOR DETAIL, SEE "NEW JOINT ARMOR DETAIL"



REMOVAL DETAILS

REVISIONS DATE

OF LITTLE ROCK, ARKANSAS 13TH ST. BRIDGE REPAIR

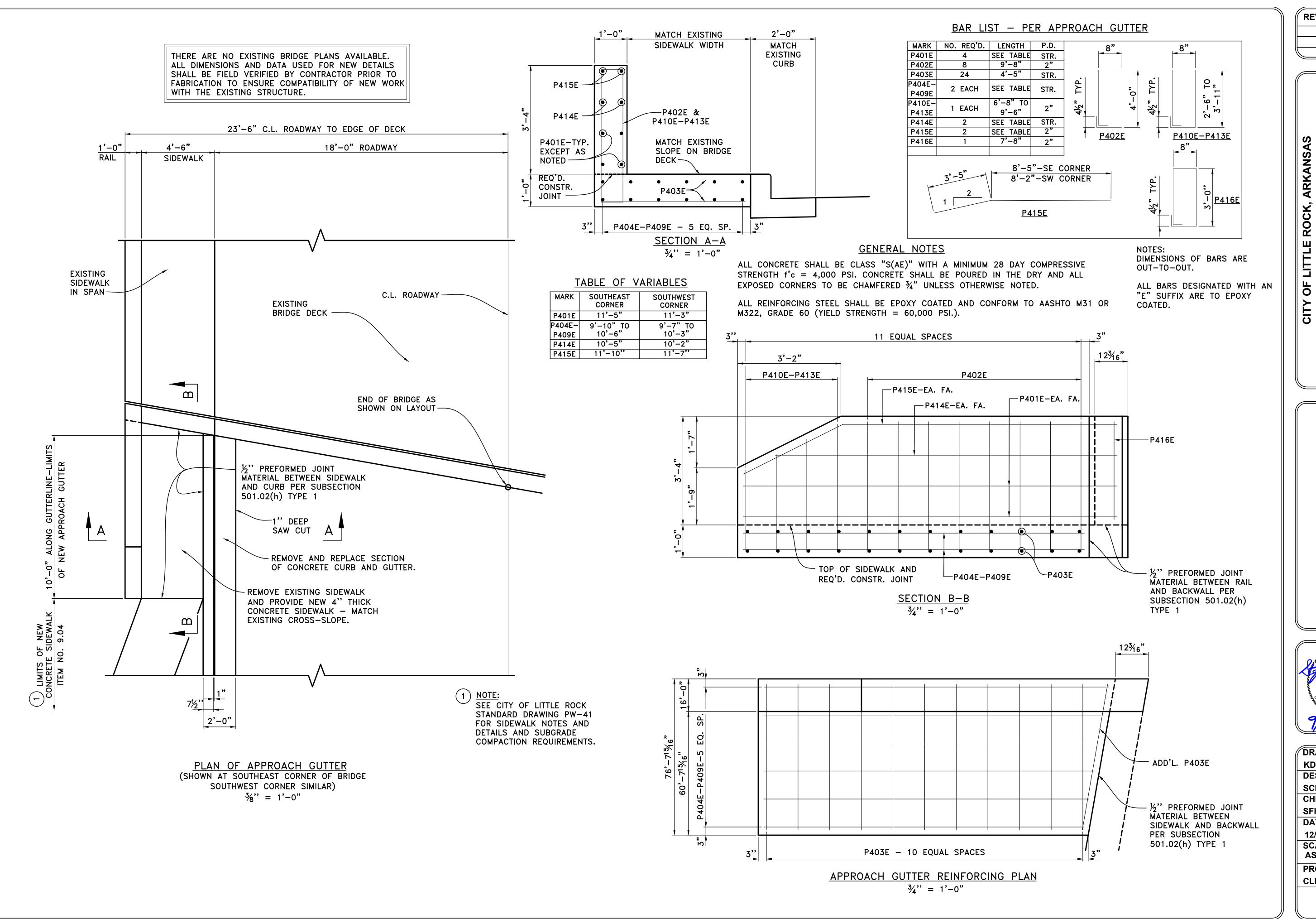
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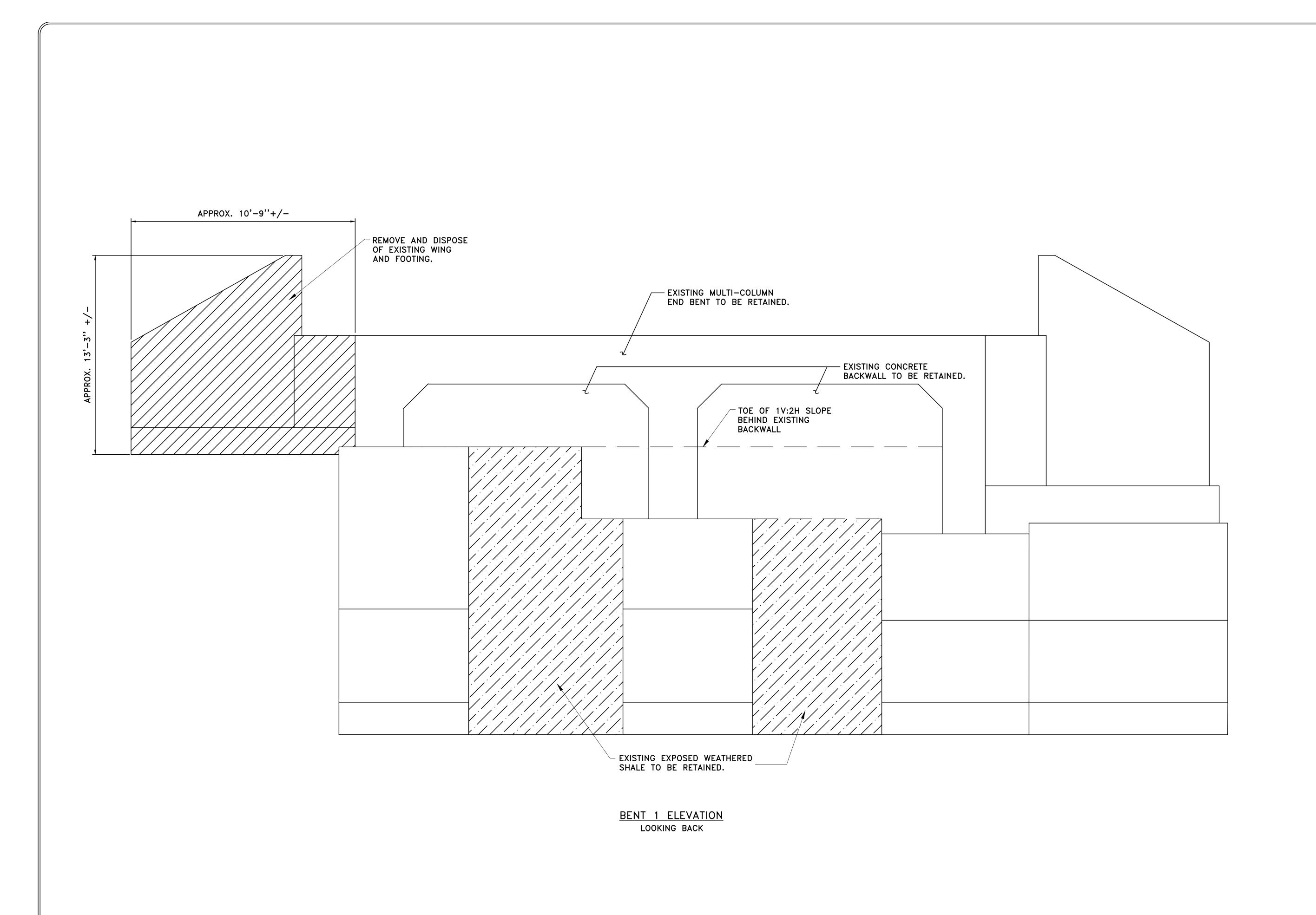




3TH ST. BRIDGE REPAIR
PPROACH GUTTER DETAILS

CIVIL ENGINEERING
701 W. MARKHAM
ROCK ARKANSAS 72201





CITY OF LITTLE ROCK, ARKANSAS 13TH ST. BRIDGE REPAIR

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DEPARTMENT CIVIL EN

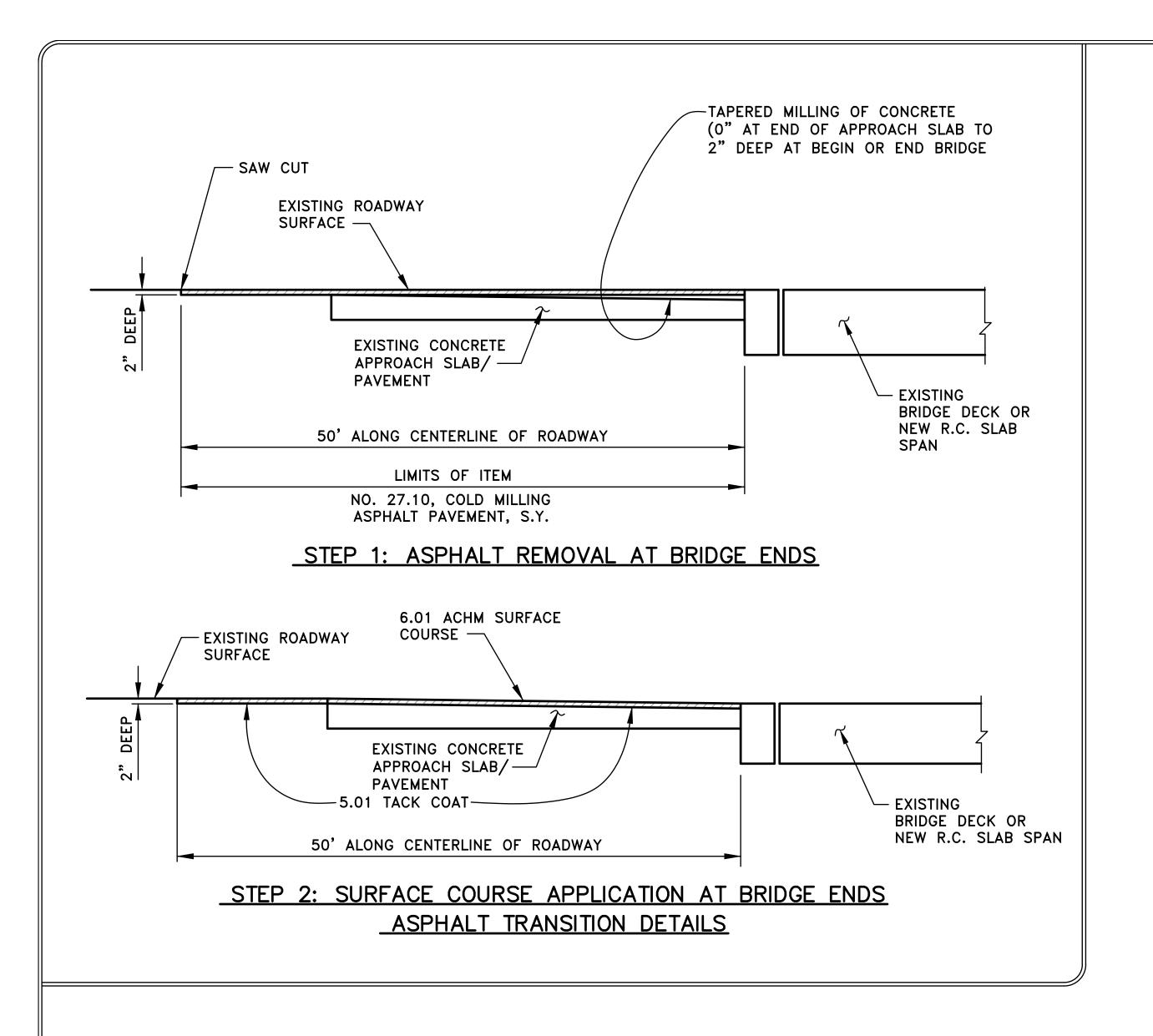


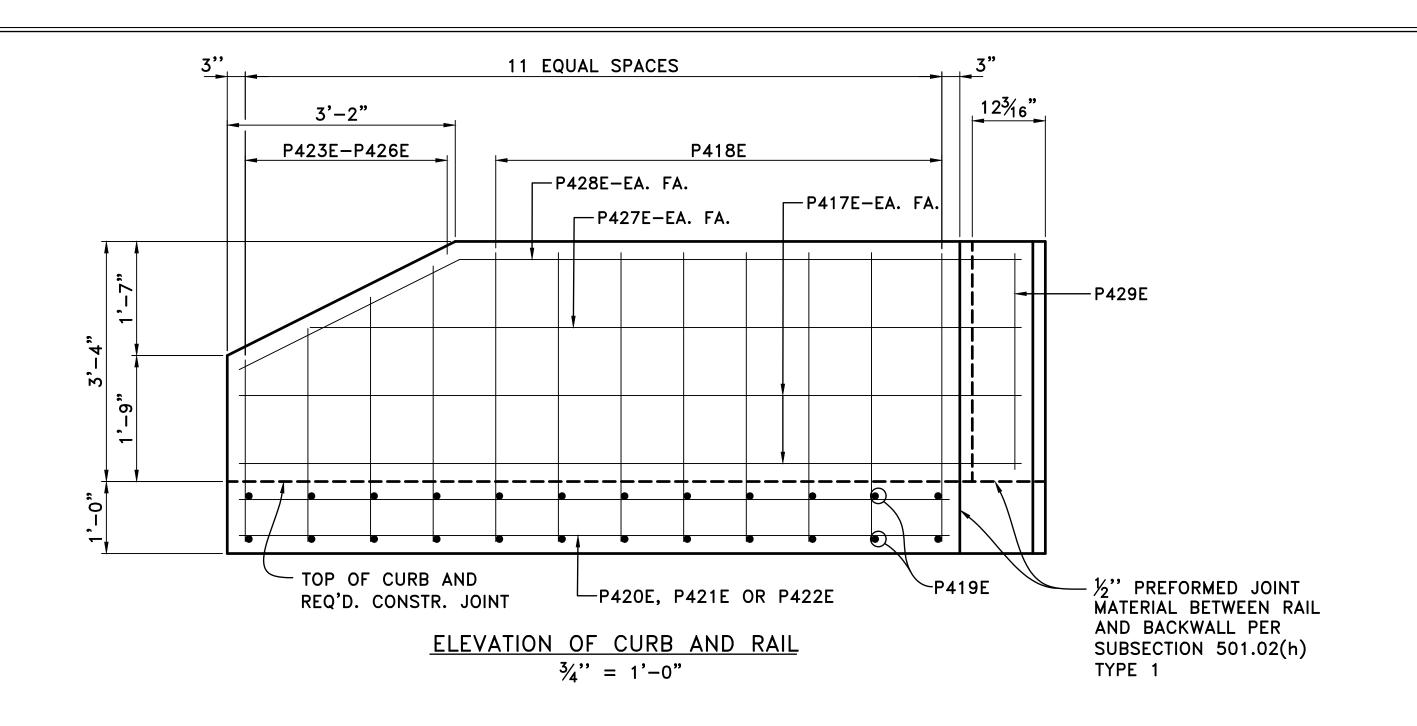
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DESIGNED
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DATE

DATE 12/2020 SCALE N.T.S.

PROJECT NO.
CLR #1-17-ST-56B
SHEET NO.

SHEET NO.





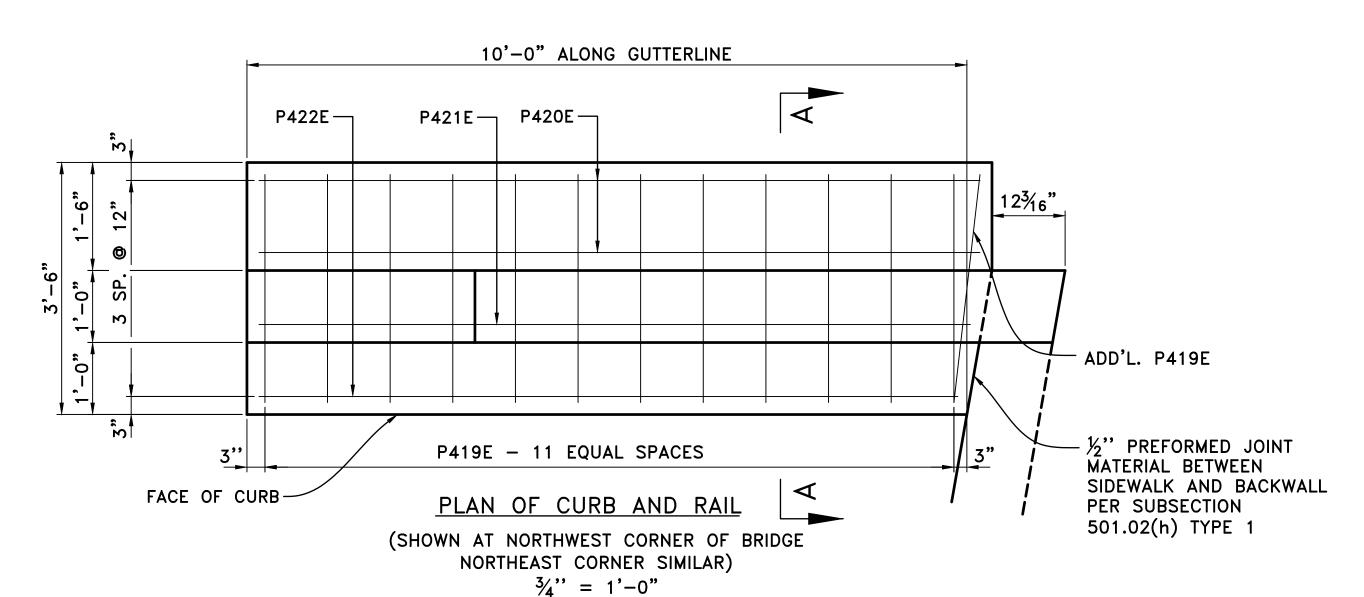


TABLE OF VARIABLES

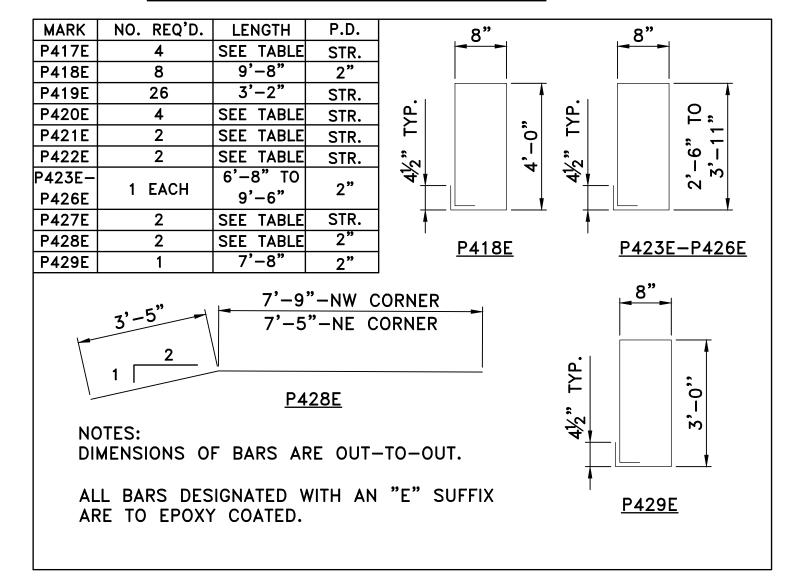
	/ (<u> </u>
MARK	NORTHWEST CORNER	NORTHEAST CORNER
P417E	10'-10"	10'-6"
P420E	10'-0"	9'-5"
P421E	9'-10"	9'-7"
P422E	9'-8"	9'-9"
P427E	9'-10"	9'-6"
P428E	11'-2''	10'-10''

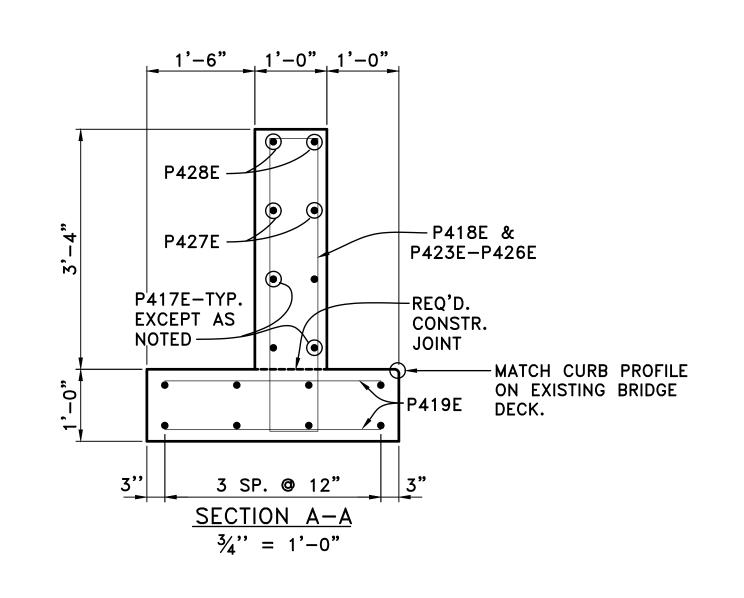
GENERAL NOTES

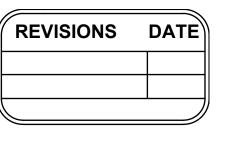
ALL CONCRETE SHALL BE CLASS "S(AE)" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH f'c = 4,000 PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED AND CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

BAR LIST - PER CURB AND RAIL

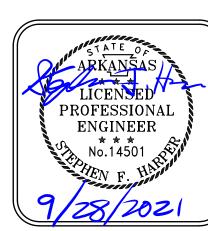


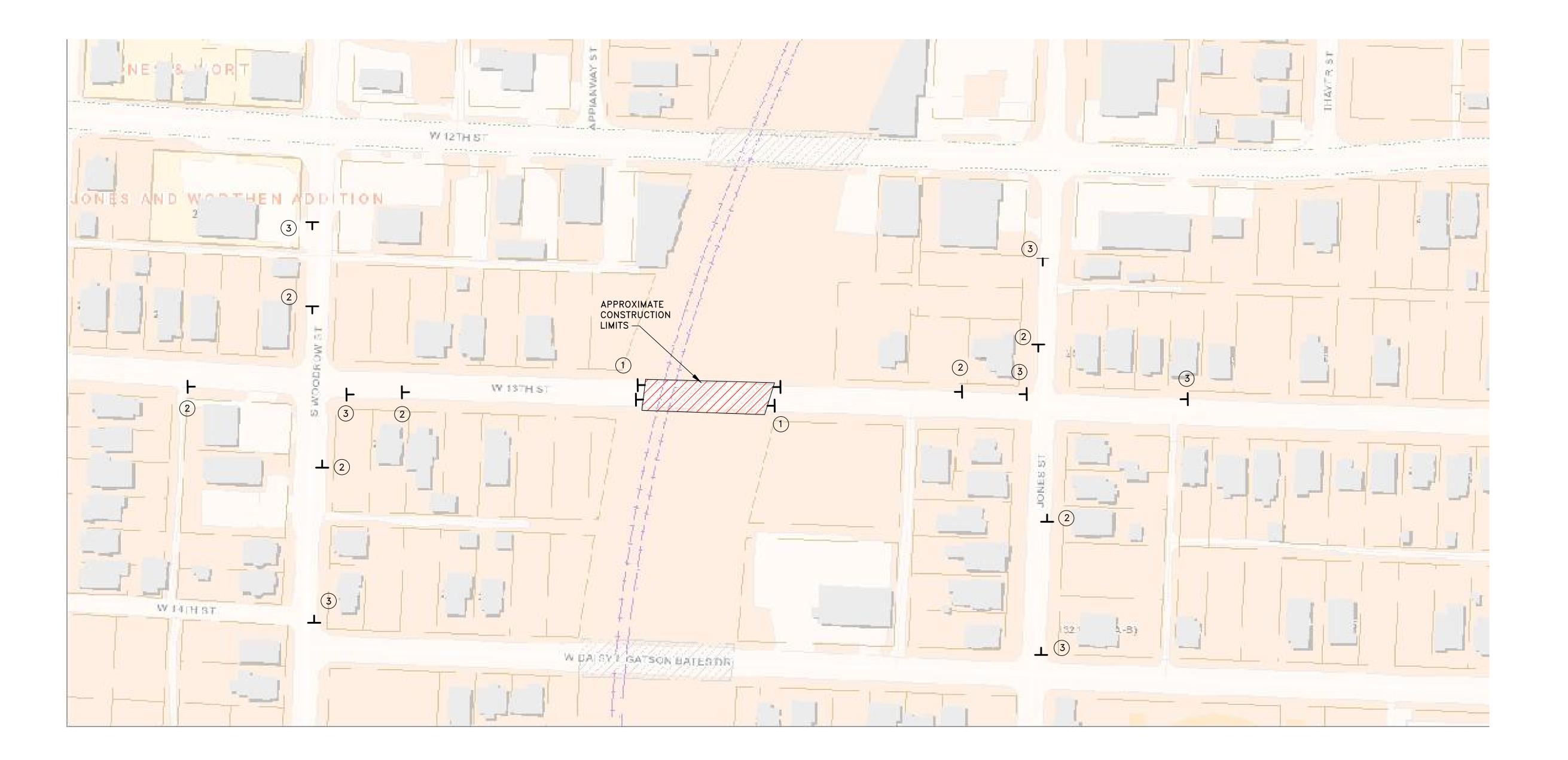


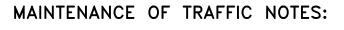


OF LITTLE ROCK, ARKANSAS 13TH ST. BRIDGE REPAIR

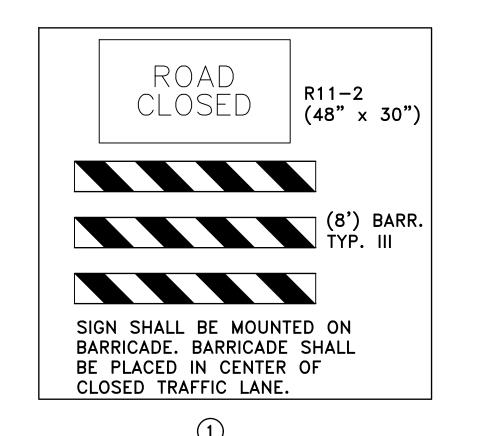


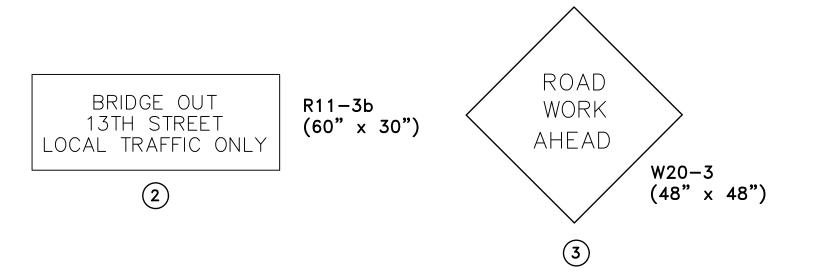






- 1. THE 13th. BRIDGE (UNION PACIFIC RAILROAD OVERPASS) SHALL BE CLOSED TO ALL THRU VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE LIFE OF THE CONSTRUCTION PROJECT. (LOCAL TRAFFIC ONLY)
- 2. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL TRAFFIC CONTROL DEVICES.
- 3. ALL TRAFFIC CONTROL DEVICES SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
- 4. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO ENSURE THAT PEDESTRIANS DO NOT ENTER WORK AREAS AND THAT OPEN CONSTRUCTION IS PROTECTED.
- 5. THE CONTRACTOR SHALL STRICTLY COORDINATE THE BRIDGE CLOSURE WITH THE CITY OF LITTLE ROCK.



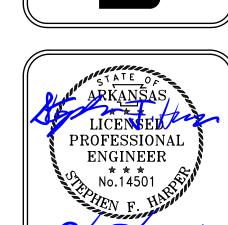


CITY OF LITTLE ROCK, ARKANSAS 13TH. ST. BRIDGE REPAIR

ILIC WORKS

CIVIL ENGINEE

701 W. MARKI



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12/2020
SCALE
N.T.S.

PROJECT NO.
CLR #1-17-ST-56B
SHEET NO.