#### **GENERAL NOTES:**

BENCHMARK: Vertical Control Data are shown on the Survey Control Detail Sheets.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition (2002).

LIVE LOADING: HS20 DESIGN METHOD: LOAD FACTOR

 MATERIALS AND STRENGTHS:
 f'c = 4,000 psi

 Class S(AE) Concrete (superstructure)
 f'c = 60,000 psi

 Reinforcing Steel (AASHTO M 31 or M 322, Type A)
 fy = 60,000 psi

 Structural Steel (ASTM A709, Gr. 36)
 Fy = 36,000 psi

POWDER COATING: All metal bridge railing shall receive a powder coating finish. The color of paint shall be Black equal or close to Federal Std. 595B, Color Chip No. 27038 and as approved by the Engineer.

EXPANSION JOINTS: Expansion joints in the existing sidewalks and at begin and end bridge shall be rehabilitated. Remove existing preformed expansion joint material and replace with poured silicone joint sealant. Roadway channels and end bent angles shown on standard are not present on the existing bridge but the details are still applicable. See Std. Dwg. No. 55064 for additional information.

TEXTURED COATING FINISH: Class 3 Textured Coating Finish shall be applied to bridge surfaces as specified in the plans and in Special Provision "TEXTURED COATING FINISH" and in accordance with Subsection 802.19(b)(3). Textured Coating Finish shall not be applied on surfaces where Polymer Overlay is applied.

POLYMER OVERLAY: Polymer overlay shall be applied to the roadway, trail and sidewalk surfaces (including vertical face of sidewalk curb) from face of rail to face of rail and from begin bridge to end bridge. For additional information, see Special Provisions "POLYMER OVERLAY" and "BRIDGE DECK REPAIR FOR POLYMER OVERLAYS".

 DETAIL DRAWINGS:
 DRAWING NO(S).

 Stage Construction
 BR-04 - BR-05

 Bridge Rail Details
 BR-06 - BR-10

 Metal Handrail Details
 BR-11 - BR-12

 Approach Slab Details
 BR-13 - BR-14

 Electrical Details or Joint Repairs & Modification
 BR-15

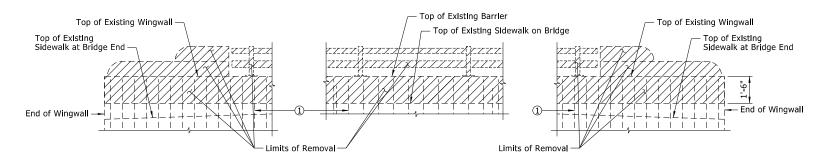
EXISTING BRIDGE: The Existing Bridge No. 03492 is 64.0' wide (52.0' clear roadway) and 116.8' long and consists of two 58'-5" reinforced concrete slab rigid frame spans supported by reinforced concrete walls with spread footings. Plans of the existing structure, if available, may be obtained upon request to the Construction Contract Development Section of the Program Management Division.

REMODELING OF THE EXISTING BRIDGE: The proposed work consists of a polymer overlay, textured coating finish, expansion joint rehabilitation, adding a concrete median bridge rail, replacing the approach slabs, and modifying the existing bridge rails as shown in the plans. For additional requirements of conducting the work, see Section 821. The cost associated with the removal and disposal of portions of the existing bridge and approach slabs shall be included in the pay item "MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 03492)".

VERIFICATION: Except as noted, components of the existing bridge are to be retained and joined to the proposed work. Information and dimensions shown are based on the existing bridge plans and available survey data. The Contractor is to adhere strictly to the requirements for verification of the geometry of the existing bridge and its relationship to the proposed work described in Subsection 821.02 and make necessary adjustments to fit the proposed work to the existing structure. Payment for this work shall be considered subsidiary to the pay item "MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 03492)".

REMOVAL AND SALVAGE: All material removed from the existing bridge under Item 821 shall be disposed of in accordance with Section 205. All material removed from the existing bridge shall become the property of the Contractor.

MAINTENANCE OF TRAFFIC: See Roadway Plans.



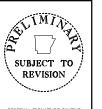
BARRIER REMOVAL DETAILS
Looking at Inside Face of Existing Barrier
Scale: ½" = 1'-0"

① Existing Vertical Reinforcing Steel to Remaln. On West slde, cut as shown In "SECTION A-A" and "SECTION B-B" on Dwg. No. BR-09. On East slde, cut and bend as shown in "SECTION A-A" on Dwg. No. BR-06. BURNS Kansas City, Missouri 641.

\*\*MCDONNELL\*\*

Certificate of Authority

Control of Authority



ORIGINAL SIGNATURE ON FILE

JOB NO. 061757 JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S) LITTLE ROCK, ARKANSAS

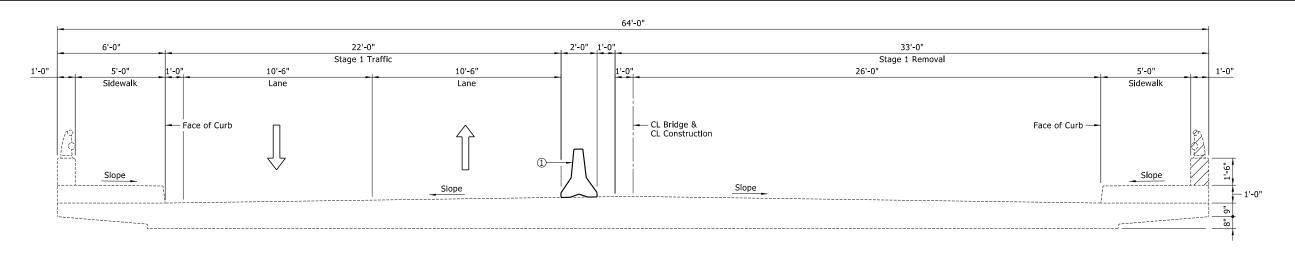
NO. DATE DESCRIPTION

GENERAL NOTES

DRAWN	BY: VM	7/2023
CHECKE RI	D BY: MH	DATE: 5/2024
DESIGN	ED BY: VIR	DATE: 7/2023
ARDOT	BRIDGE NO	

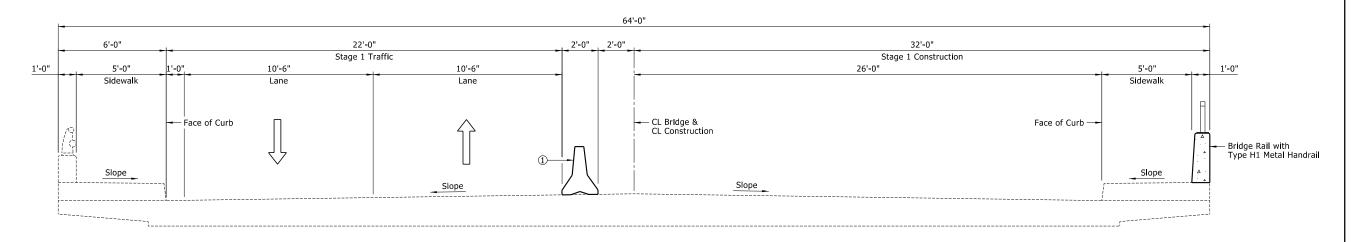
ARDOT BRIDGE NO. 03492

NONE 061757 BR-03



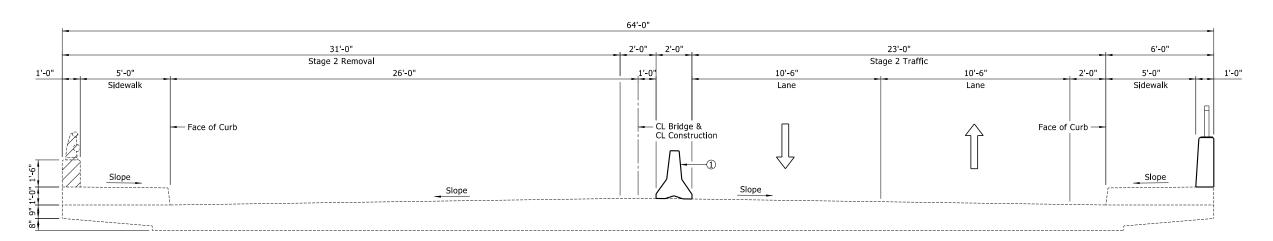
## STAGE 1 REMOVAL & TRAFFIC

Looking Ahead Station



## STAGE 1 CONSTRUCTION

Looking Ahead Station



## STAGE 2 REMOVAL & TRAFFIC

Looking Ahead Station

NOTES: Details related to Maintenance of Traffic on bridge plans for information only. For Maintenance of Traffic, see Roadway Plans.

Details which relate to Existing Bridge 03492 are shown for information only. Actual field conditions may vary and shall be verified by the Contractor.

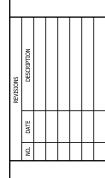
① Temporary Precast Barrier, see Std. Dwg. No. TC-4.

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas Chy, Nissoun 641
816-333-9400
Certificate of Authority
No.: 17



ORIGINAL SIGNATURE ON FILE

JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S) LITTLE ROCK, ARKANSAS



STAGE CONSTRUCTION (SHEET 1 OF 2)

DRAWN BY: DATE:
TWM 4/2024

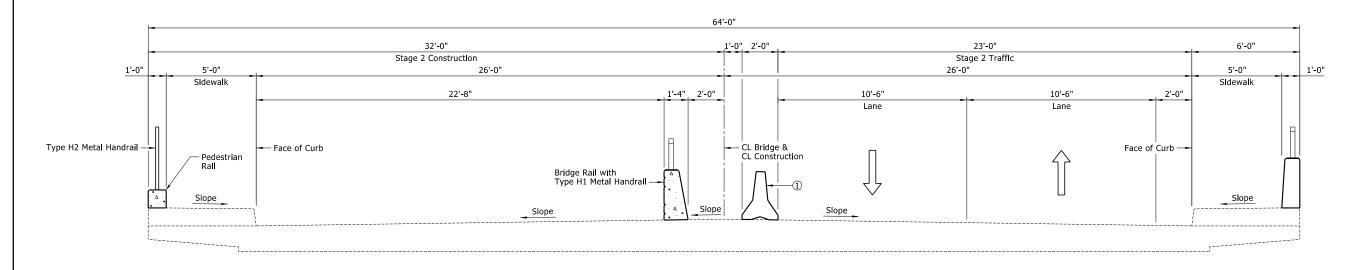
CHECKED BY: DATE:
RMH 5/2024

DESIGNED BY: DATE:
JGS 4/2024

ARDOT BRIDGE NO.

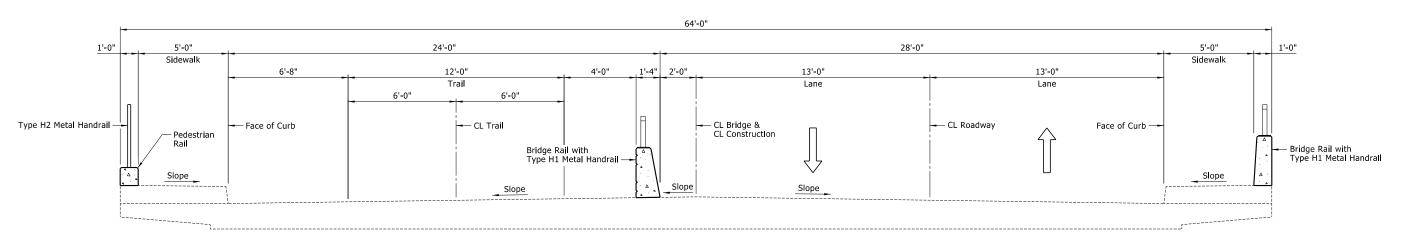
ARDOT BRIDGE NO. 03492

SCALE: JOB NUMBER: 3/8" = 1'-0" 061757



## STAGE 2 CONSTRUCTION

Looking Ahead Station



## COMPLETED SECTION

Looking Ahead Station

Details related to Maintenance of Traffic on bridge plans for information only. For Maintenance of Traffic, see Roadway Plans.

Details which relate to Existing Bridge 03492 are shown for information only. Actual field conditions may vary and shall be verified by the Contractor.

① Temporary Precast Barrier, see Std. Dwg. No. TC-4.

BURNS MEDONNELL

ELIMIAN E SUBJECT TO REVISION

ORIGINAL SIGNATURE ON FILE

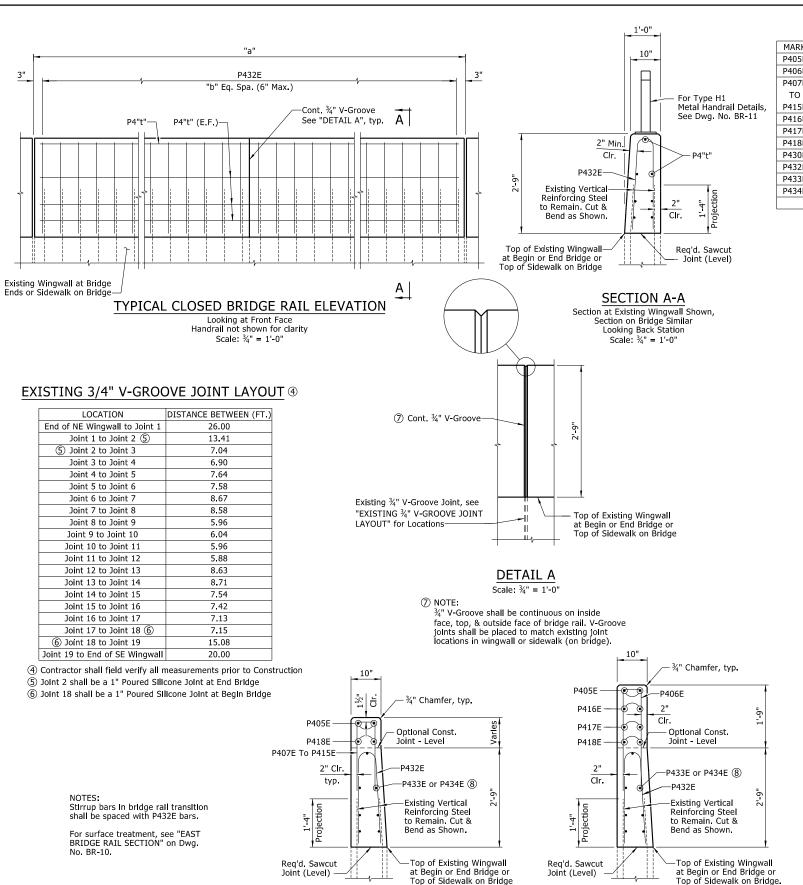
JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S)

LITTLE ROCK, ARKANSAS

STAGE CONSTRUCTION (SHEET 2 OF 2)

4/2024 ECKED BY: DATE: 5/2024 DATE: 4/2024

RDOT BRIDGE NO. 03492 SCALE: JOB NUMBER: 3/8" = 1'-0" 061757



# SECTION B-B Looking Back Station Scale: 3/" = 1'-0"

# SECTION C-C Looking Back Station Scale: 3/4" = 1'-0"

8 Place P433E at SE Wingwall and P434E at NE Wingwall

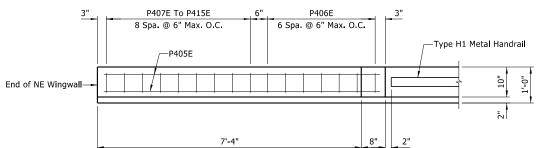
## BAR LIST

MARK	NO. REQ'D.	LENGTH	"A"	P.D.	BENDING DIAGRAMS					
P405E	4	7'-11"		3"	Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated. The first bar designation number indicates the reinforcing bar size.					
P406E	14	6'-1"		2"	The first bar designation number indicates the reinforcing bar size.					
P407E		4'-7"	2'-1"		6" 6" 5½" P.D.					
то	2 Each	то	то	2"						
P415E		2'-9"	1'-2"		7'-5"					
P416E	4	2'-8"		Str.						
P417E	4	4'-7"		Str.	] \					
P418E	4	6'-7"		Str.						
P430E	28	31'-1"		Str.	12					
P432E	384	5'-4"		5¼"	P405E P406E P407E TO P415E 8"					
P433E	7	34'-8"		Str.	11002 11072 1072					
P434E	7	39'-0"		Str.	P432E					

## TABLE OF BRIDGE RAIL VARIABLES

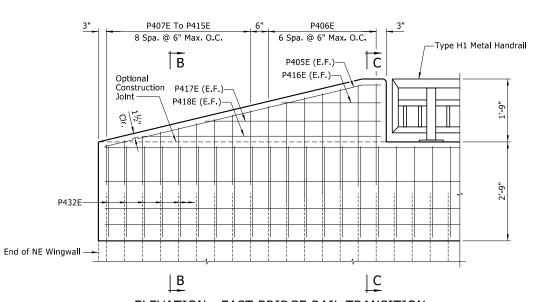
	PANEL LENGTH	BAR	SPACES	NUMBER
	"a"	"t"	"b"	OF PANELS
1	39'-4%"	34E	78	1
2	116'-10"	30E	233	1
3	35'-0 <sup>15</sup> / <sub>16</sub> "	33E	70	1

- ① From End of NE Wingwall to CL 1" Poured SIllcone Joint at Bent 3
- ② From CL 1" Poured Silicone Joint at Bent 3 to CL 1" Poured Silicone Joint at Bent 1
- ③ From CL 1" Poured Silicone Joint at Bent 1 to End of SE Wingwall



## PLAN - EAST BRIDGE RAIL TRANSITION

Transition at End Bridge Shown, Transition at Begin Bridge Similar Scale: ¾" = 1'-0"



## **ELEVATION - EAST BRIDGE RAIL TRANSITION**

Transition at End Bridge Shown, Transition at Begin Bridge Similar Looking at Front Face Scale:  $\frac{3}{4}$ " = 1'-0"

Surns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansa City, Missouri 64114

816-335-9400

Certificate of Authority

No. -17

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ORIGINAL SIGNATURE ON FILE

JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S) LITTLE ROCK, ARKANSAS

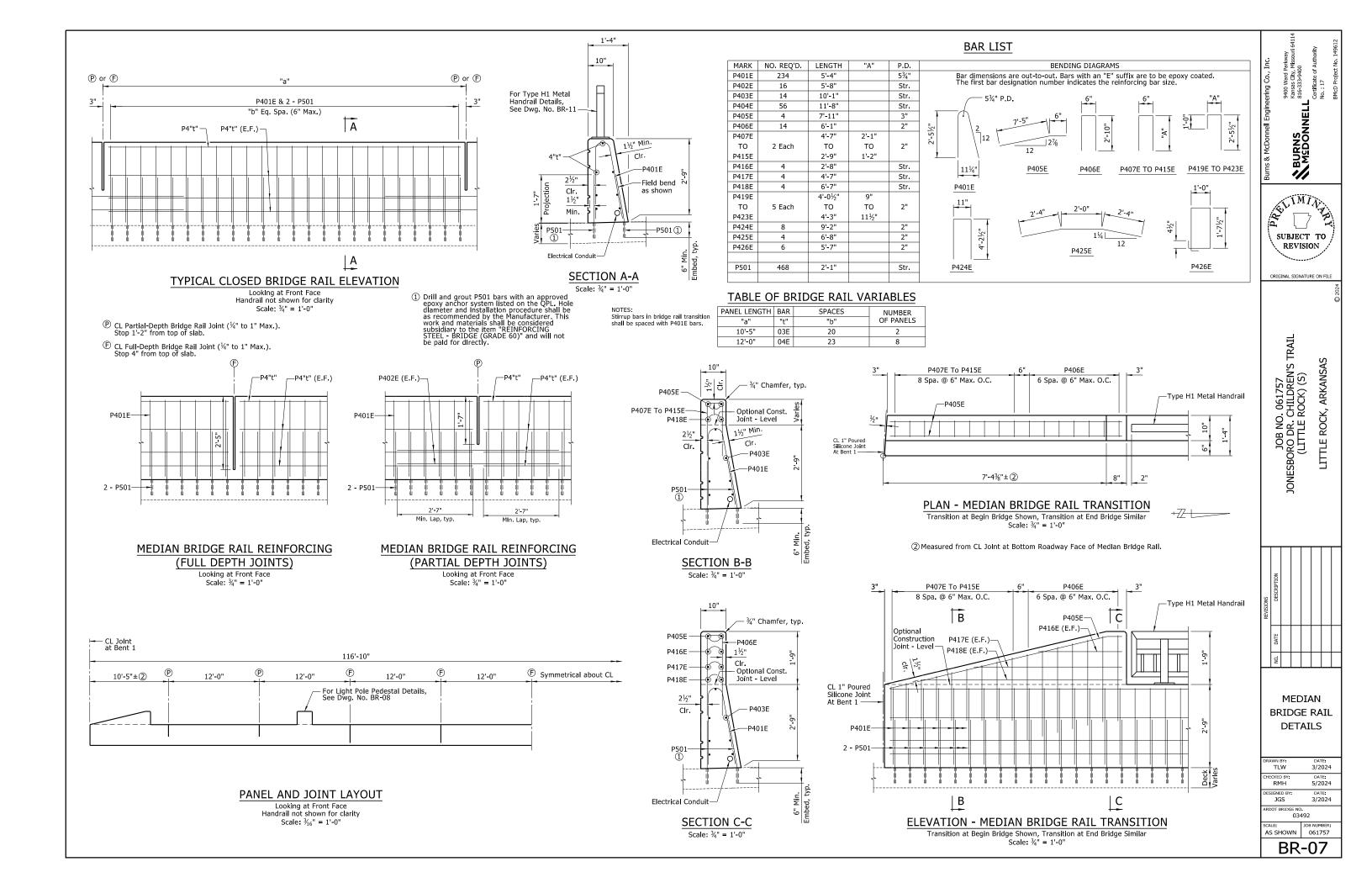


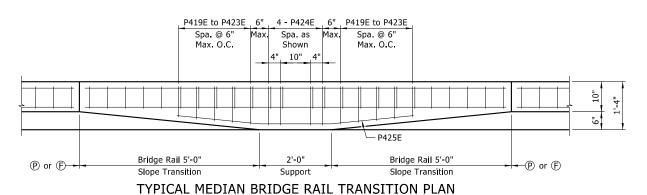
EAST BRIDGE RAIL DETAILS

DRAWN BY: TLW	DATE: 3/2024
CHECKED BY: RMH	DATE: 5/2024
DESIGNED BY: JGS	DATE: 3/2024
ARDOT BRIDGE NO	

ARDOT BRIDGE NO.
03492

SCALE:
JOB NUMBER:
061757





Scale: 3/4" = 1'-0"

+7/

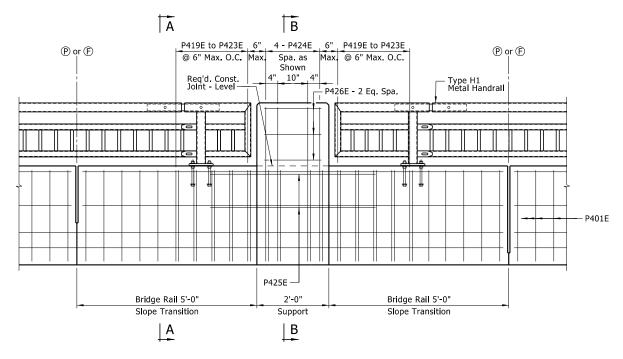
NOTES: Medlan bridge rall shall be widened by increasing top width from 10" to 1'-4" over 5'-0" transition length on each side of light pole support.

For typical median bridge rail reinforcement details, see Dwg. No. BR-07.

For "ARCHITECTURAL FINISH ELEVATION -MEDIAN BRIDGE RAIL" detall, see Dwg. No. BR-10.

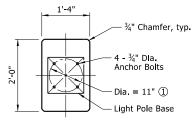
For "TYPICAL CLOSED BRIDGE RAIL ELEVATION" detail, see Dwg. No. BR-07.

- $\bigcirc$  CL Partial-Depth Rail Joint ( $\frac{1}{4}$ " to 1" Max.). Stop 1'-2" from top of slab.
- $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline \end{tabular} \begin{tabular} \hline \end{tabular} \begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline \end{tabul$



## TYPICAL MEDIAN BRIDGE RAIL TRANSITION ELEVATION

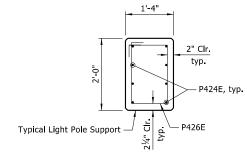
Scale: 3/4" = 1'-0"



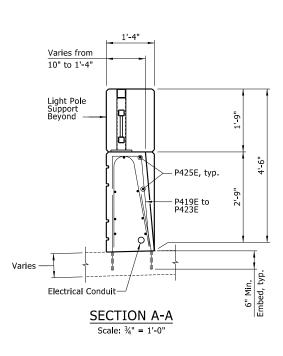
## LIGHT POLE SUPPORT PLAN

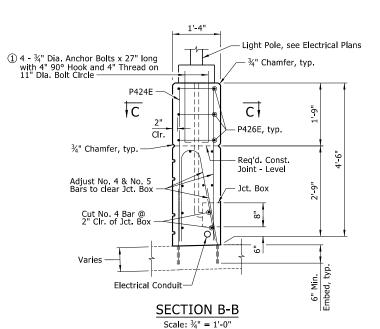
Scale: 3/4" = 1'-0"

Contractor shall verify the required anchor bolt size and corresponding bolt circle with the light pole manufacturer prior to installing anchor bolts. The light pole base shall not hang over the face of the light pole standard support.



SECTION C-C Scale: ¾" = 1'-0"





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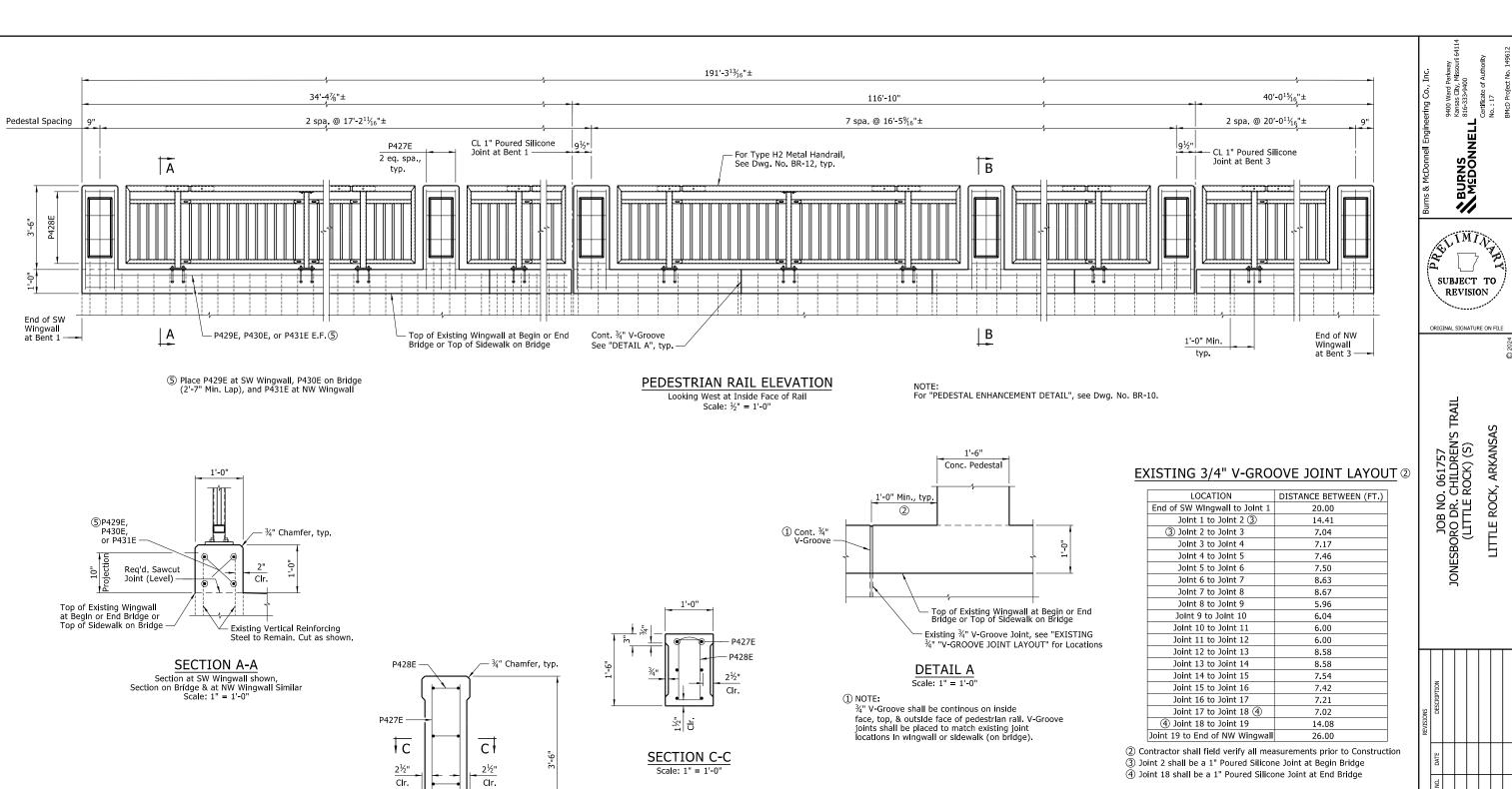
ORIGINAL SIGNATURE ON FILE

JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S) LITTLE ROCK, ARKANSAS

LIGHT POLE SUPPORT

AWN BY: TLW 3/2024 ECKED BY: DATE: 5/2024 DATE: 3/2024 NOT BRIDGE NO. 03492

AS SHOWN 061757 **BR-08** 



Req'd. Const. Joint (Level) -

Req'd. Sawcut

Joint (Level) -

Top of Existing Wingwall at Begin or End Bridge or Top of Sidewalk on Bridge

34" Chamfer,

P429E, P430E,

or P431E (5)

 Existing Vertical Reinforcing Steel to Remain. Cut as shown.

SECTION B-B

Section at Existing Wingwall Shown, Section on Bridge Similar Scale: 1" = 1'-0"

typ.

## **BAR LIST**

36 48 4	8'-9" 3'-10" 34'-0"	2"	Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated. The first bar designation number indicates the reinforcing bar size.
4			The first par designation number indicates the reinforcing par size.
<u> </u>	34'-0"	Ct	
		Str.	<del></del>
16	31'-1"	Str.	
4	39'-9"	Str.	
			7" 4 4 5% 11-13"
			P427E P428E
	4	4 39'-9"	4 39'-9" Str.

	REVISIONS	DESCRIPTION			
ıction		DATE			
		ON			

BURNS MEDONNELL

SUBJECT TO REVISION

ORIGINAL SIGNATURE ON FILE

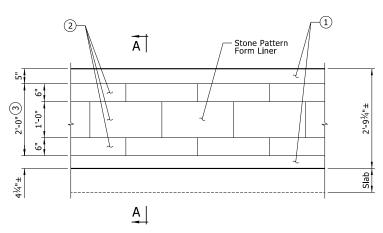
JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S)

LITTLE ROCK, ARKANSAS

**PEDESTRIAN** RAIL **DETAILS** 

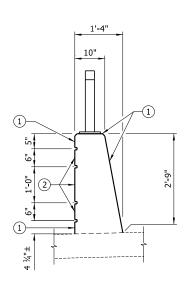
DRAWN BY:	DATE:			
TLW	3/2024			
CHECKED BY:	DATE:			
RMH	5/2024			
DESIGNED BY:	DATE:			
JGS	3/2024			
ARDOT BRIDGE NO.				
034	92			

AS SHOWN 061757

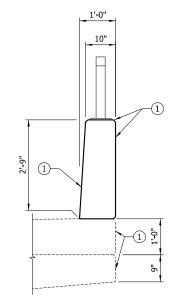


## ARCHITECTURAL FINISH ELEVATION - MEDIAN BRIDGE RAIL

Showing Back Face of Barrier Scale:  $\frac{3}{4}$ " = 1'-0"



## SECTION A-A Scale: 3/4" = 1'-0"



## EAST BRIDGE RAIL SECTION

Section on Bridge Shown, Section at Existing Wingwall Similar Scale: ¾" = 1'-0"

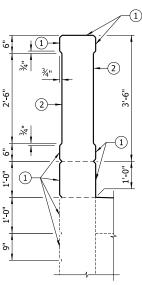
End of SE Wingwall at Bent 1

Remove Existing Bridge Name Plate from Barrier on NW Corner of Brldge. Care Shall be taken to clean and re-use. Place Bridge Name Plate on Bridge Rail at SE Corner of Bridge as shown on Dwg. No. BR-02.

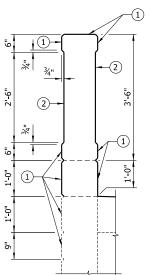
NOTES: Form liner shall be a max. depth of 1" to provide a min. clearance of  $1\frac{1}{2}$ " to bridge rail reinforcing.

A Class 3 Textured Coating Finish shall be applied to bridge rail as specified in Special Provision "TEXTURED COATING FINISH" and in accordance with Subsection 802.19(b)(3).

- 2) Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 30219).
- (3) Limits of Architectural Finish



## **SECTION B-B** Section at Existing Wingwall Shown, Section on Bridge Similar Scale: $\frac{3}{4}$ " = 1'-0"



## VIEW SHOWING LOCATION OF BRIDGE NAME PLATE

Scale: 3/4" = 1'-0"

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ORIGINAL SIGNATURE ON FILE

JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S)

LITTLE ROCK, ARKANSAS

AESTHETIC **DETAILS** 

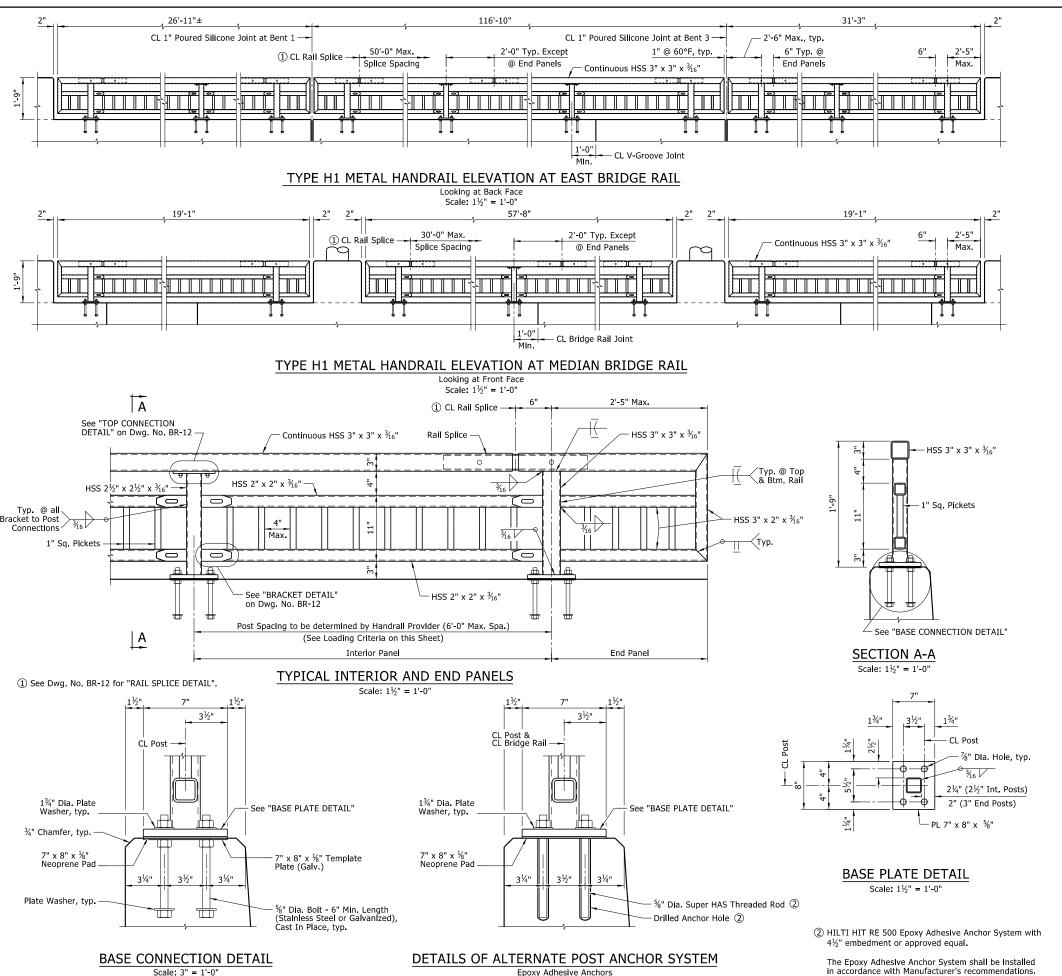
DRAWN BY:	DATE:				
TLW	4/2024				
CHECKED BY:	DATE:				
RMH	5/2024				
DESIGNED BY:	DATE:				
JGS	4/2024				
ARDOT BRIDGE NO	).				
03-	492				
SCALE:	JOB NUMBER:				
AS SHOWN	061757				

BR-10

¾" Chamfer typ В 2)-В

PEDESTAL ENHANCEMENT DETAIL

Scale: 3/4" = 1'-0"



NOTES FOR METAL HANDRAIL:

The metal handrail shall be designed, fabricated, and painted in accordance with Special Provision "METAL HANDRAIL".

The interior panels and posts shall be Aegis II Series manufactured by Ameristar Fence Products, Inc., Tulsa, Oklahoma or approved equal.

Rail layout shall conform to vertical and horizontal alignment of bridge. All posts shall be vertical. Rail sections shall be fabricated to attach to at least three posts.

Base plates shall not be placed upon areas that are improperly finished, deformed

Maximum post spacing = 6'-0". Minimum distance from centerline post to centerline open or V-Groove joints in bridge rail = 1'-0".

Rail splices shall be at 50' maximum spacing. Centerline of splices shall be located at a minimum of 2 feet from centerline of post unless noted otherwise

Shop drawings showing details of the metal handrail, including design calculations and a detailed post spacing layout in relation to the bridge rail joints and light pole pedestals, shall be submitted and approval secured prior to fabrication.

#### MATERIALS:

Rall tubing, posts, end caps, and base plates shall conform to ASTM A709, Grade 36 or ASTM A500-Grade B, and shall be galvanized after fabrication in accordance with Subsection 806.02(c). Steel rall members shall receive a powder coating process after galvanizing. Galvanized surfaces shall be prepared in accordance with Subsection 807.87 and the Manufacturer's recommendations prior to application of the powder coating process.

The powder coating process shall be a two coat system applied using electrostatic spray. The base coat shall be a thermosetting epoxy powder with a minimum thickness of 2-4 mils. The top coat shall be a tough polyester powder coat with a minimum thickness of 2-4 mils. Color shall be black, equal to or close to Federal Std. 595B, color chip 27038. Coated galvanized framework shall have a salt spray resistance of 3,000 hours using ASTM B117 without loss of adhesion. The powder coating process shall be in accordance with Manufacturer's recommendations. Any damage to the powder coated finish shall be repaired with a compatible touch-up system in accordance with the Manufacturer's recommendations and to the satisfaction of the Engineer at the Contractor's expense.

The Contractor shall submit a paint color sample prior to fabrication for Owner's approval.

Cast-in-place anchor bolts, nuts, washers, and set screws shall be galvanized high-strength steel or stainless steel. Mixing of galvanized and stainless steel fasteners will not be permitted.

High-Strength Steel: Cast-in-place anchor bolts shall conform to ASTM F3125, Grade A325, Type 1. Nuts shall conform to ASTM A563, Grade DH or AASHTO M 292, Grade 2H. Washers shall conform to ASTM F436. Plate Washers shall conform to ASTM A709, Grade 36. Template Plates shall conform to ASTM A709, Grade 36. Splice Set Screws shall conform to ASTM A307, Grade A. Anchor bolts, nuts, washers, plate washers, and set screws shall be galvanized

In accordance with AASHTO M 232, Class C or ASTM B695, Class 50.

## Stainless Steel:

Cast-in-place anchor bolts shall conform to ASTM A193, Grade B8, Class 2 or A320, Grade B8, Class 2 with a minimum yield strength of 80,000 psi. Nuts shall conform to ASTM A194, Grade 8. Washers shall conform to ASTM A240, Type 302. Plate Washers shall conform to ASTM A240, Type 302. Template plates shall conform to ASTM A240, Type 302. Splice Set Screws shall conform to ASTM A193, Grade B8, Class 1 or A320, Grade B8, Class 1.

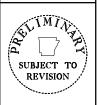
Threads on bolts, screws, and nuts shall conform to American Standard Coarse Series, Class 2 FIT, ASA Specification B1.1. Plate washers shall have dimensions meeting the requirements of ANSI/ASME B18.22.1, Type A plain washer (Wide Series) unless otherwise noted. Neoprene pads shall conform to the requirements of Subsection 807.15(b).

Metal handrail, including posts, fasteners, base plates, template plates, balusters, anchor bolts, neoprene pads, galvanizing and powder coatings; fabrication and erection; and all incidentals necessary to complete the work shall be paid for in accordance with Section 806 at the contract unit price per linear foot bid for "TYPE H1 METAL HANDRAIL" or "TYPE H2 METAL HANDRAIL".

## LOADING CRITERIA:

- 1. All horizontal members shall be designed for a uniform loading of 50 pounds per foot applied vertically and horizontally plus a concentrated load of 200 pounds applied in any direction at the top of the horizontal member. All loadings shall be
- 2. All rall posts shall be designed for a transverse load (in kips) equal to 0.20 + 0.050L where L is equal to the post spacing (in feet).
- 3. The top continuous 3" HSS member shall be fabricated to attach to a minimum of

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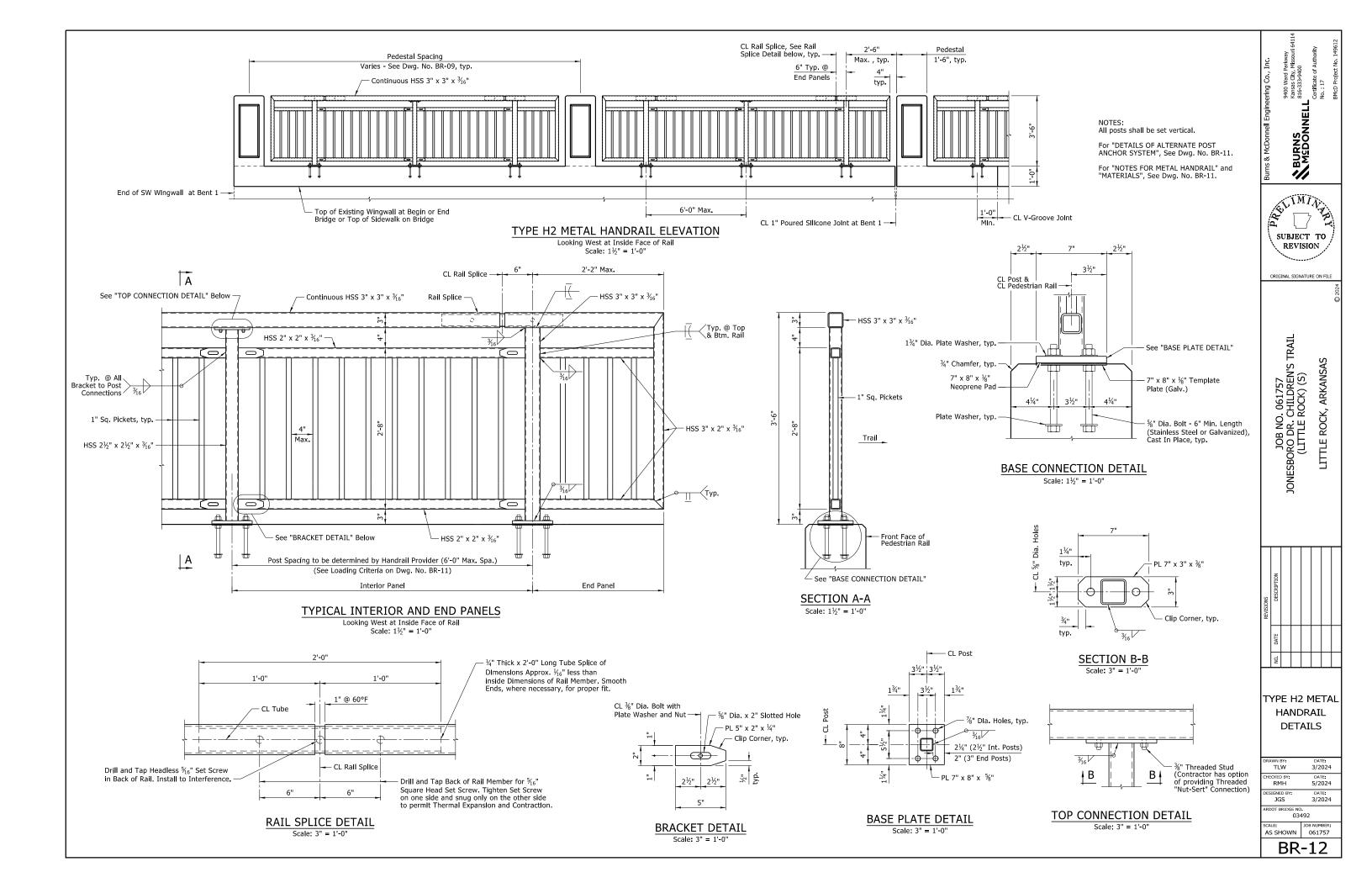
JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S) LITTLE ROCK, ARKANSAS

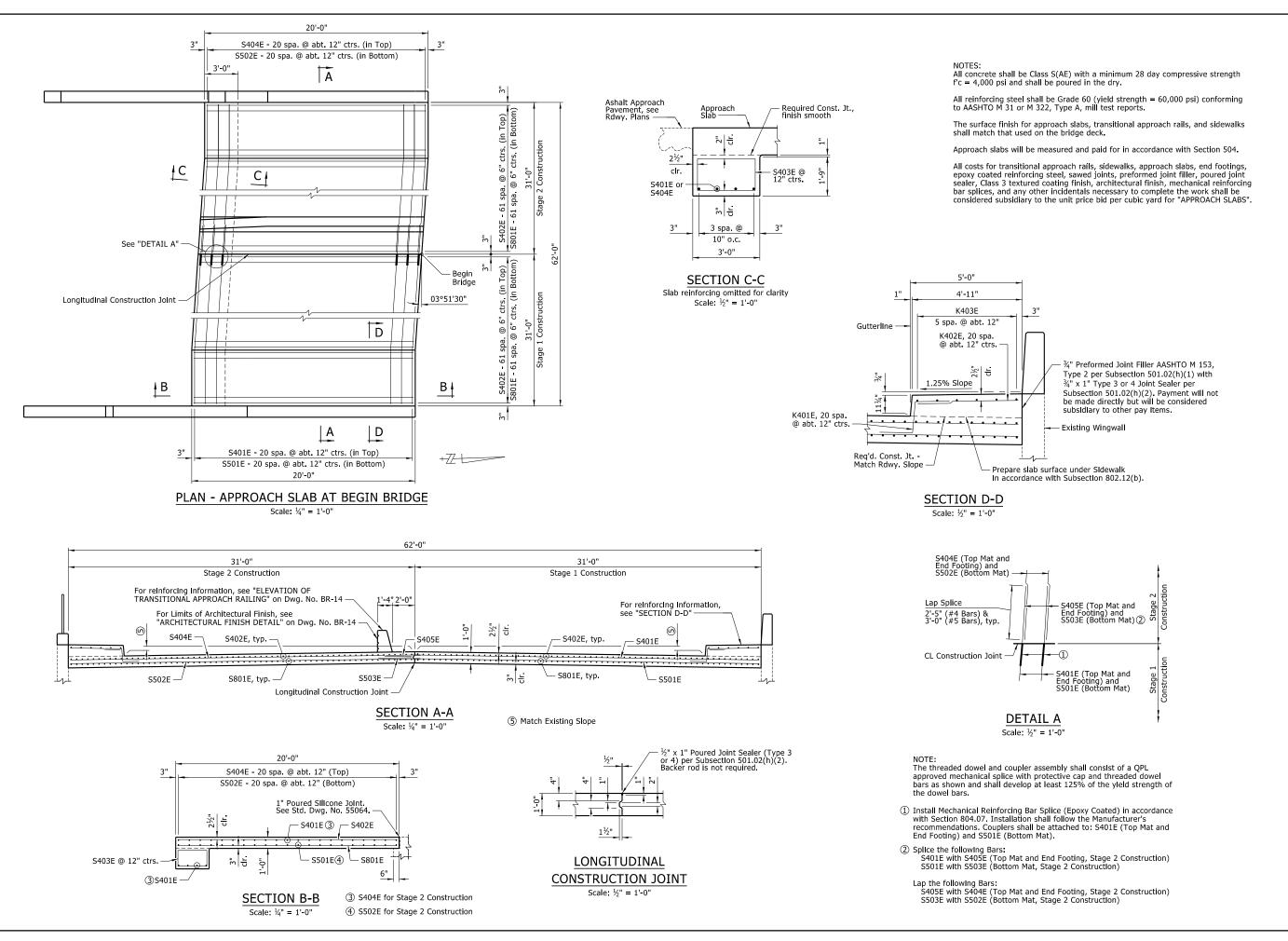


TYPE H1 METAL HANDRAIL **DETAILS** 

TLW	3/2024			
CHECKED BY: RMH	DATE: 5/2024			
JGS	DATE: 3/2024			
ARDOT BRIDGE NO. 03492				
SCALE:	10B NUMBER			

AS SHOWN 061757 **BR-11** 





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EL MINE SUBJECT TO REVISION

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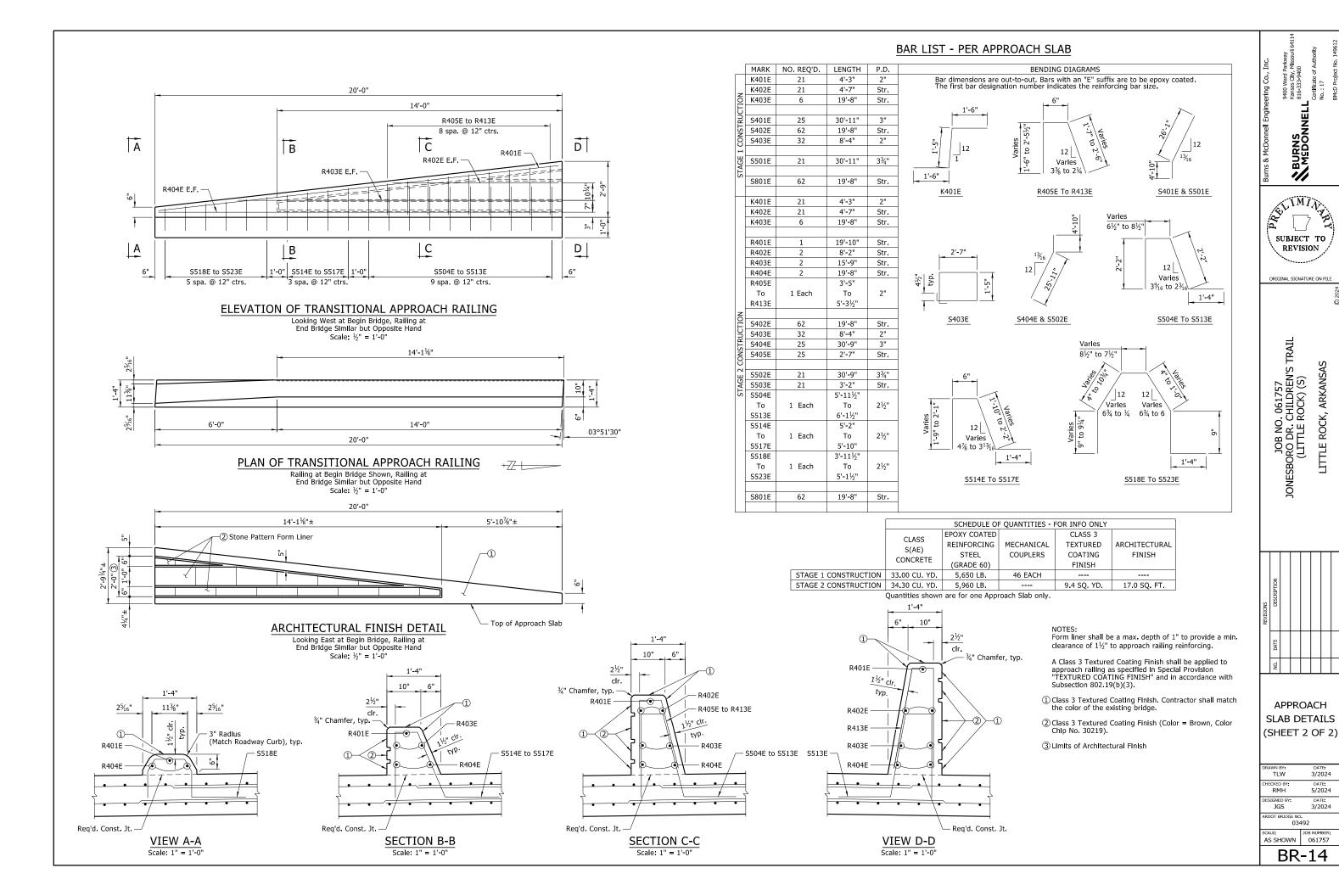
JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S)

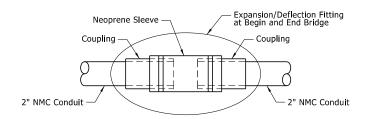
**APPROACH SLAB DETAILS** (SHEET 1 OF 2)

DRAWN BY:	DATE:
TLW	3/2024
CHECKED BY:	DATE:
RMH	5/2024
DESIGNED BY:	DATE:
JGS	3/2024

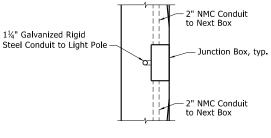
OT BRIDGE NO. 03492

AS SHOWN 061757 **BR-13** 

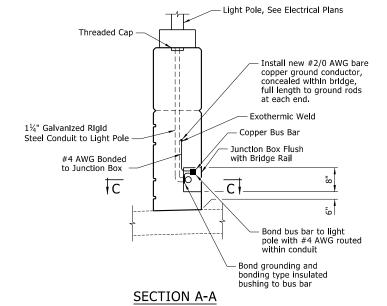


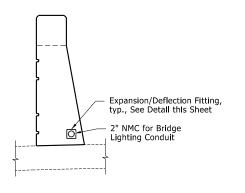


## EXPANSION FITTING DETAIL, TYP.

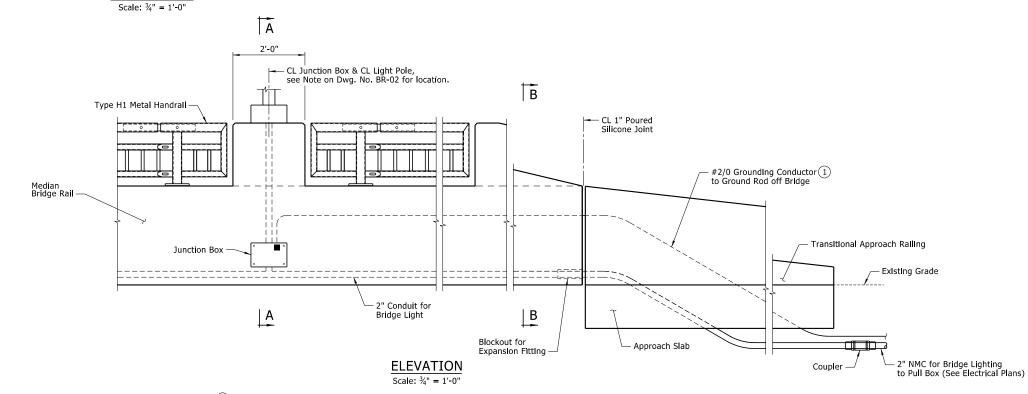








SECTION B-B Scale: 3/4" = 1'-0"



1) Internal copper ground bar bonded to box with minimum 6 lugs sized for connections as indicated.

For light fixtures and pole details, see Electrical Plans.

All hardware shall be corrosion resistant, galvanized or stainless

Construct foundation in accordance with pole manufacturer's

Use long sweep  $90^{\circ}$  elbows on all conduit bends that meet NEC minimum radius requirements. All NMC shall be rigid PVC schedule

Tie all pole, equipment ground, and all other metal equipment and grounding lugs together using minimum #4 AWG solid bare copper and approved connectors or exothermic welds and connect to

The Contractor shall use caution when installing conduits in bridge rail to not impact rebar or construction joints.

The general scope of the lighting work shall include junction boxes, expansion fittings, conduit and all incidentals necessary for installation of final lighting, wiring, power supply and additional pull boxes (see Electrical Plans). Only lighting materials and scope shown on the bridge plans will be included on the bridge. Payment

The Contractor shall coordinate the location of the pull boxes and other electrical details installed off the bridge with the City of Little Rock.

Provide and Install  $\frac{3}{4}$ " dia. x 10'-0" copper clad steel sectional ground rods. Top of ground rods shall be a minimum 18" below finished grade. Exothermically weld each copper grounding installation depth of copper grounding conductor otherwise. Ground rods shall be located within 20' of end of each approach

Contractor shall clearly mark the final location of the ground rods for future connection to lighting power source's grounding system.

Junction box and lid material shall be ½" A36 steel. Fasteners shall be  $\frac{3}{16}$ " dia. x  $\frac{3}{4}$ " S.S. FH socket screws. Weld per ARDOT standard spec. Hot dlp galvanized and powder coat after fabrication per bridge railing general notes. Prefabricated junction boxes may be substituted by the Contractor If approved by the Engineer. The junction boxes shall be adequately anchored to the

### BOX NOTES:

NEMA 3R galvanized steel construction with gasket, recessed and flush in bridge rail wall.

Junction box dimensions shall be a minimum of 8" high x 8" wide

guidelines and per these plans. Contractor shall coordinate with the Engineer for manufacturing requirements.

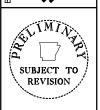
for lighting work will be considered subsidiary to other pay items.

conductor to the top of the associated rod. Maintain 30"

bridge rall by means of an approved mechanical device.

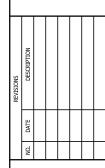
Splice wires in box according to NEC. All wires shall be type THHW, THHN/THWN-2, or XHHW-2.

BURNS MEDONNELL



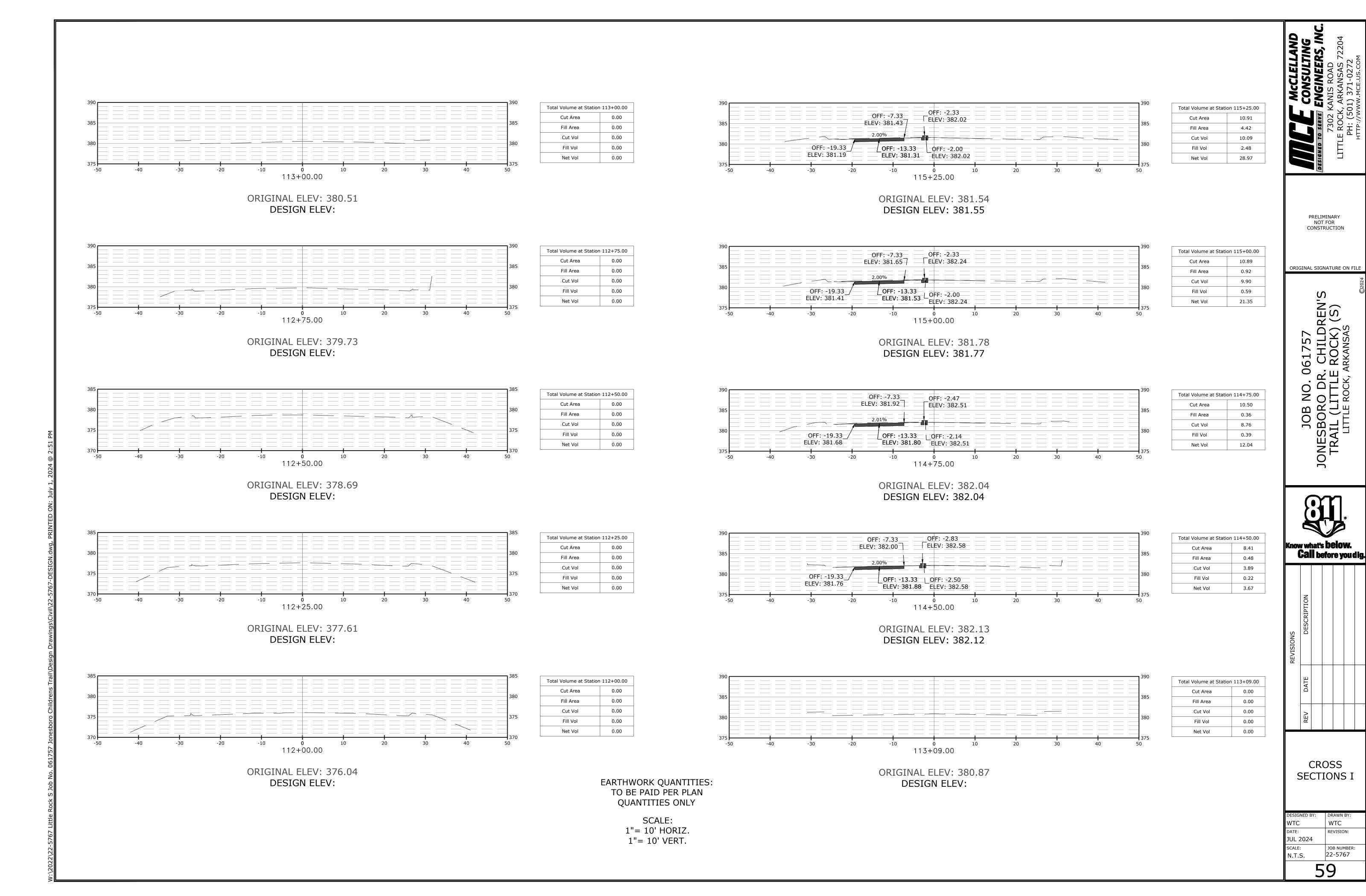
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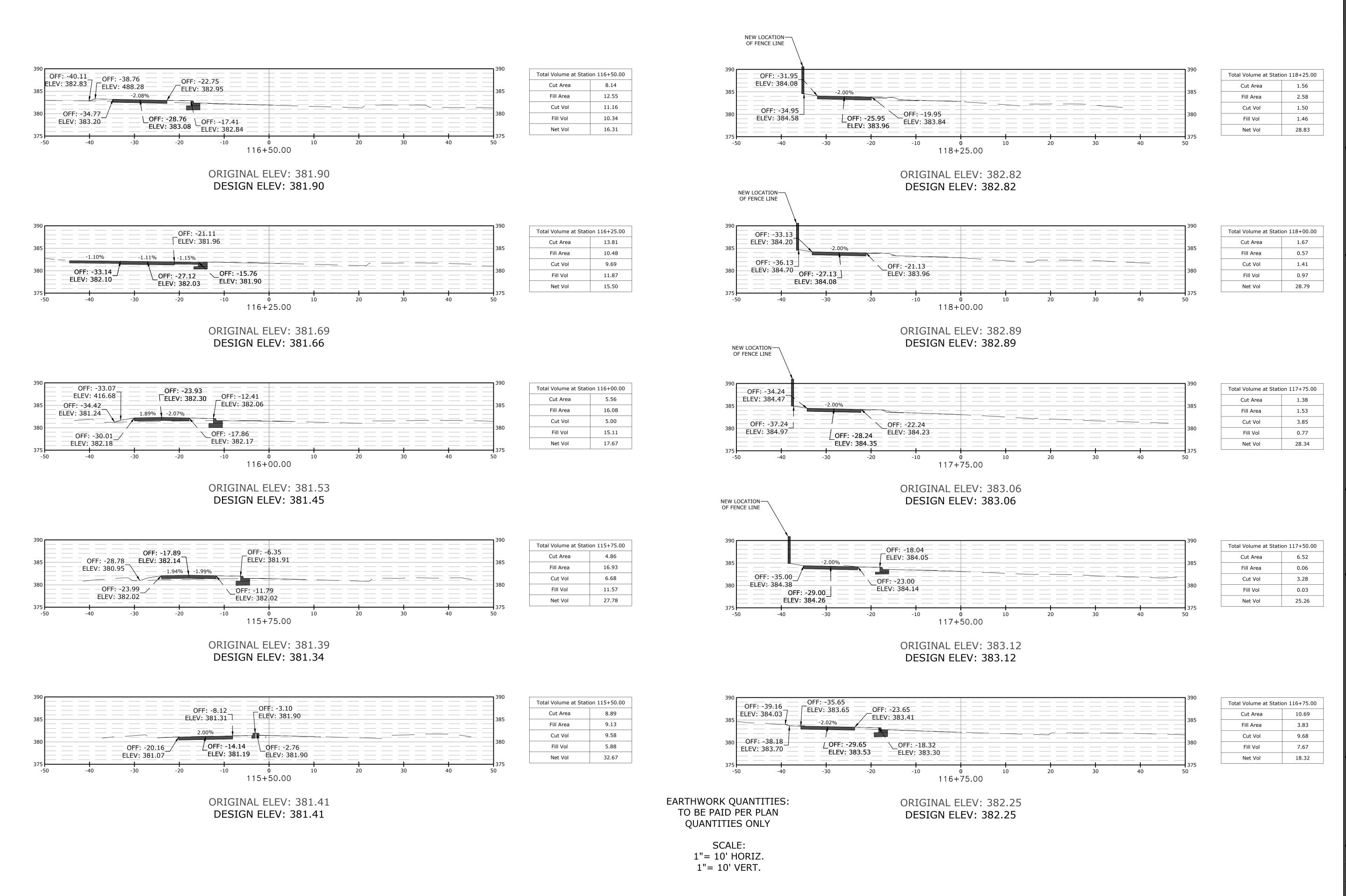
JONESBORO DR. CHILDREN'S TRAIL (LITTLE ROCK) (S) LITTLE ROCK, ARKANSAS



**ELECTRICAL** DETAILS

TLW	3/2024		
CHECKED BY:	DATE:		
RMH	5/2024		
DESIGNED BY:	DATE:		
JGS	3/2024		
ARDOT BRIDGE NO			
034	<del>1</del> 92		
SCALE: AS SHOWN	JOB NUMBER:		
	061757		





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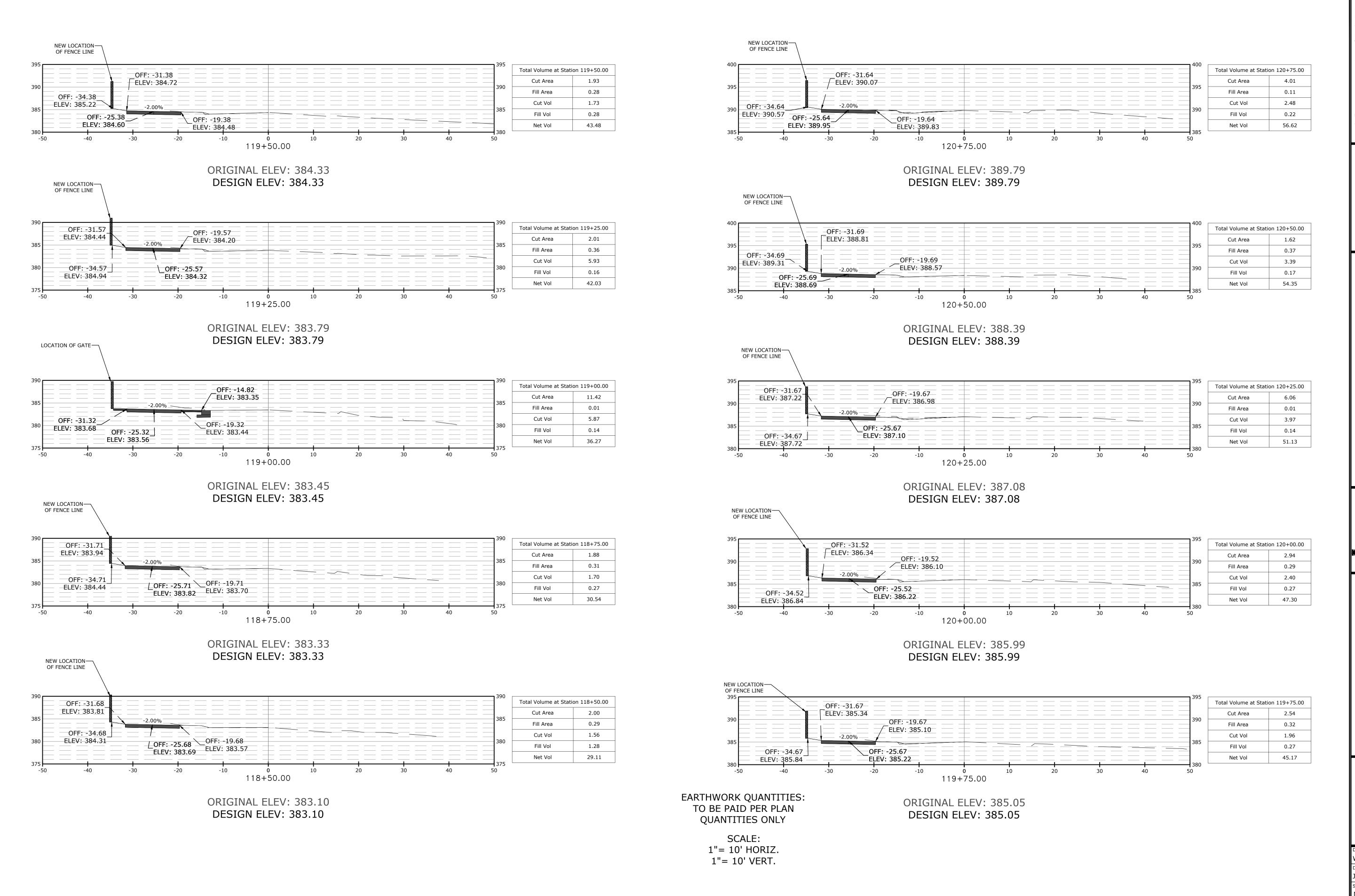
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061757 .. CHILDREN'S E ROCK) (S) ARKANSAS 061 30B

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CROSS SECTIONS II

JUL 2024 JOB NUMBER: 22-5767 N.T.S.



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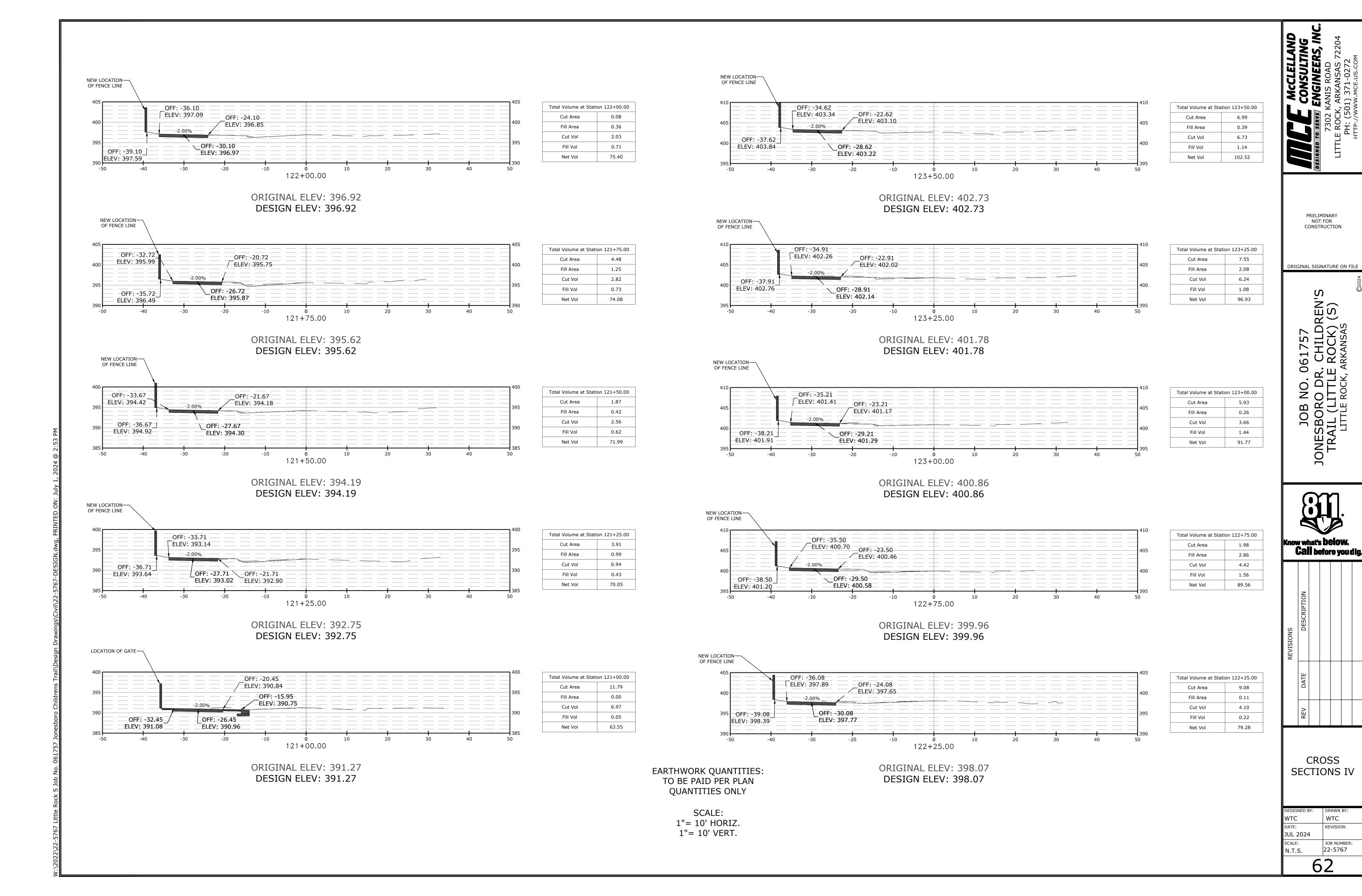
061757 L. CHILDREN'S E ROCK) (S) ARKANSAS

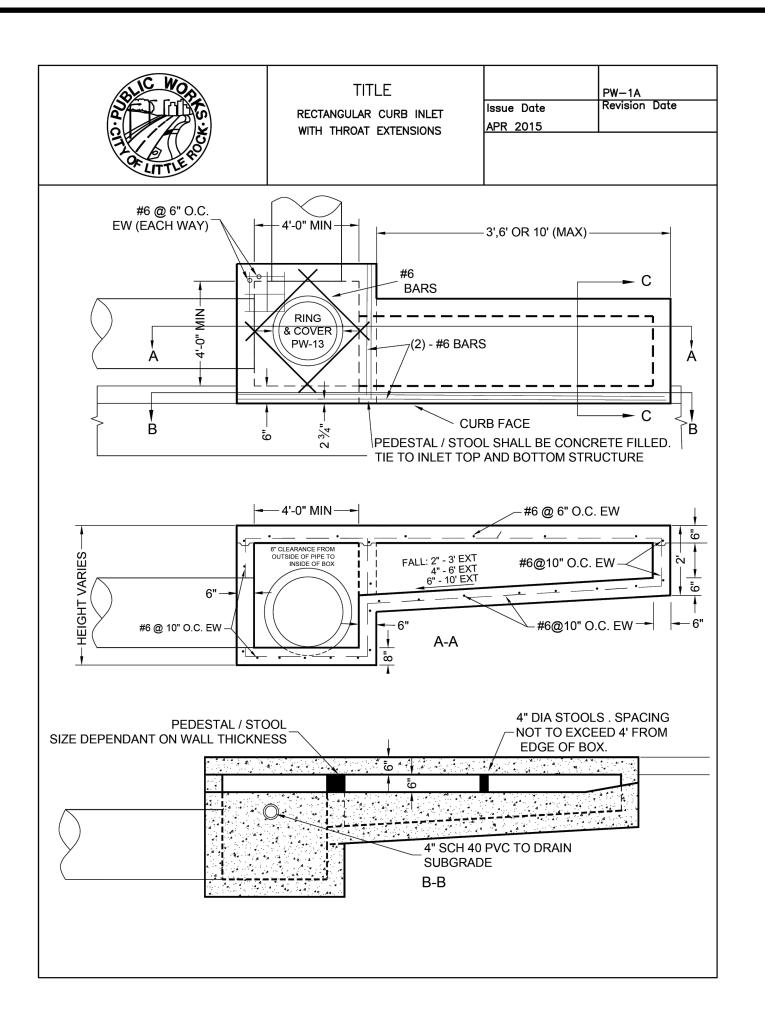
90 JOB JONESBOR( TRAIL (LI

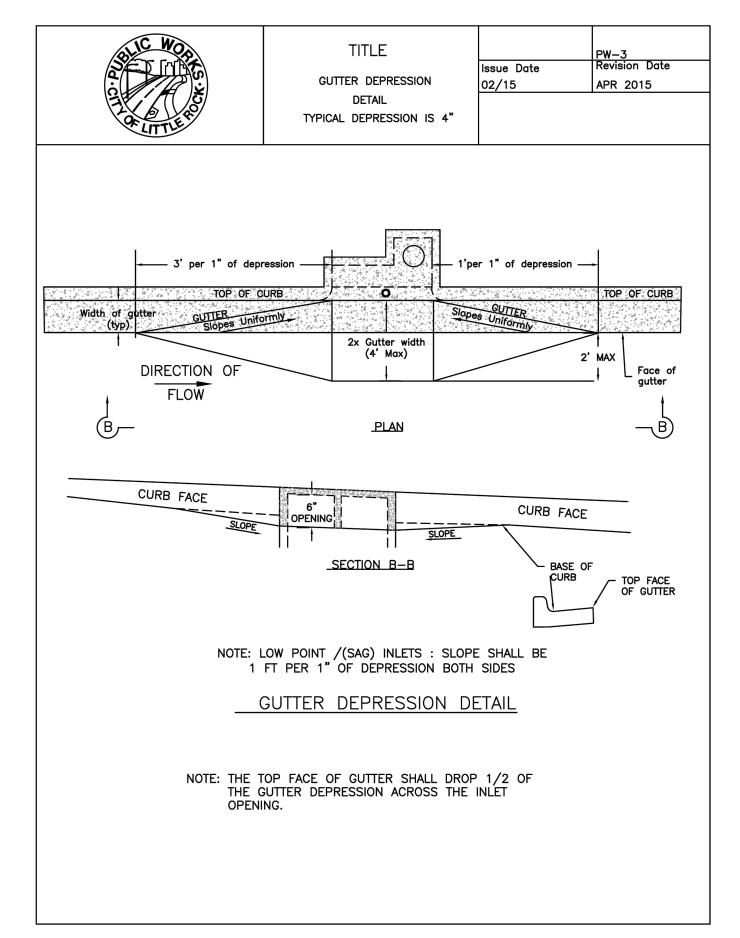
**Call before you dig.** 

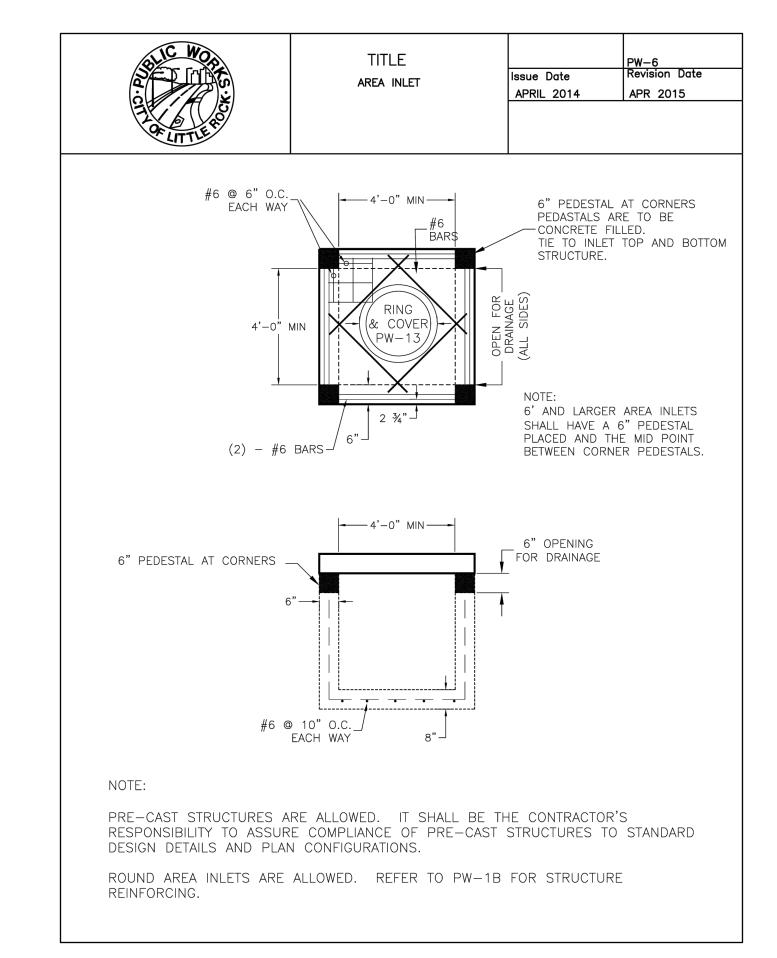
CROSS SECTIONS III

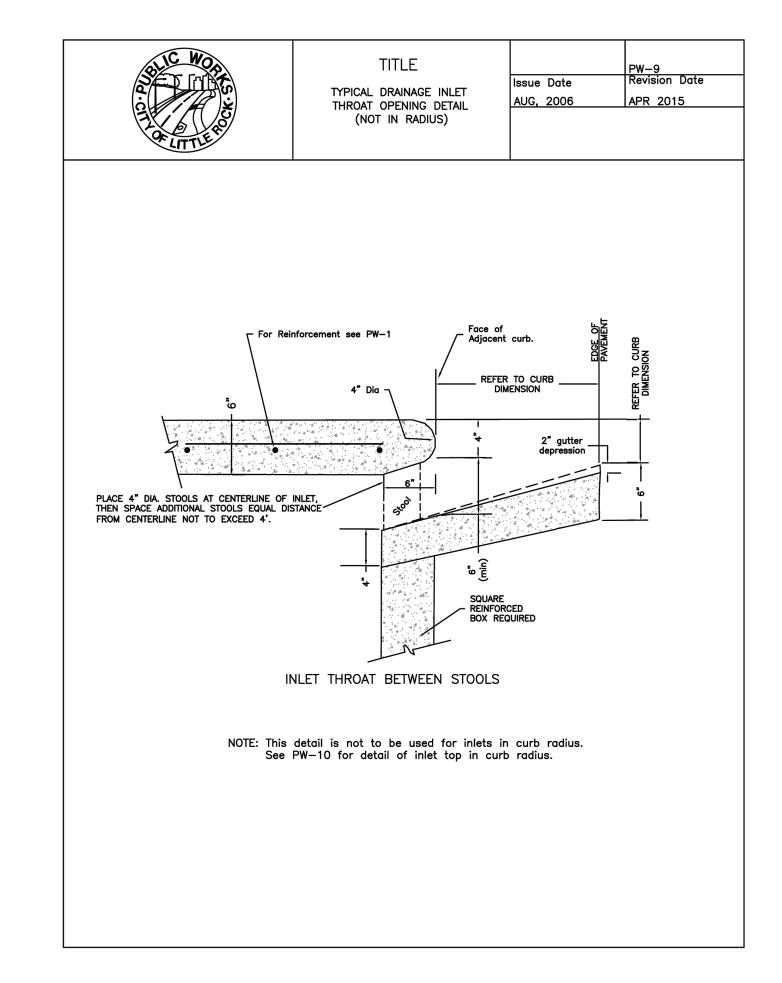
JUL 2024 JOB NUMBER: 22-5767 N.T.S.

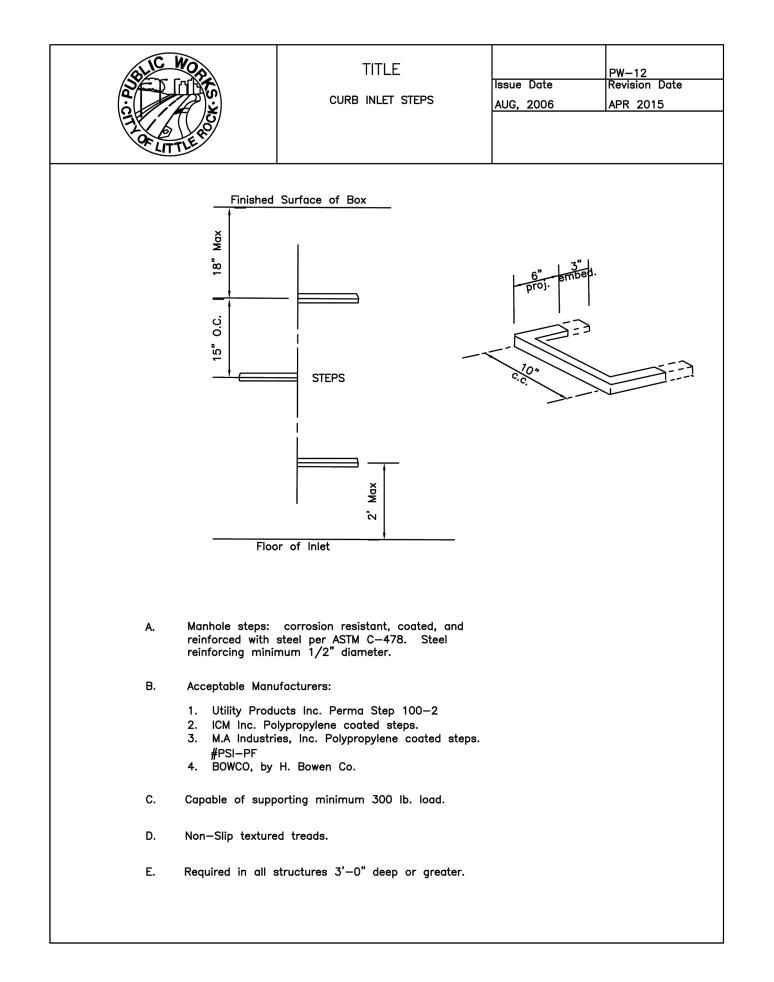


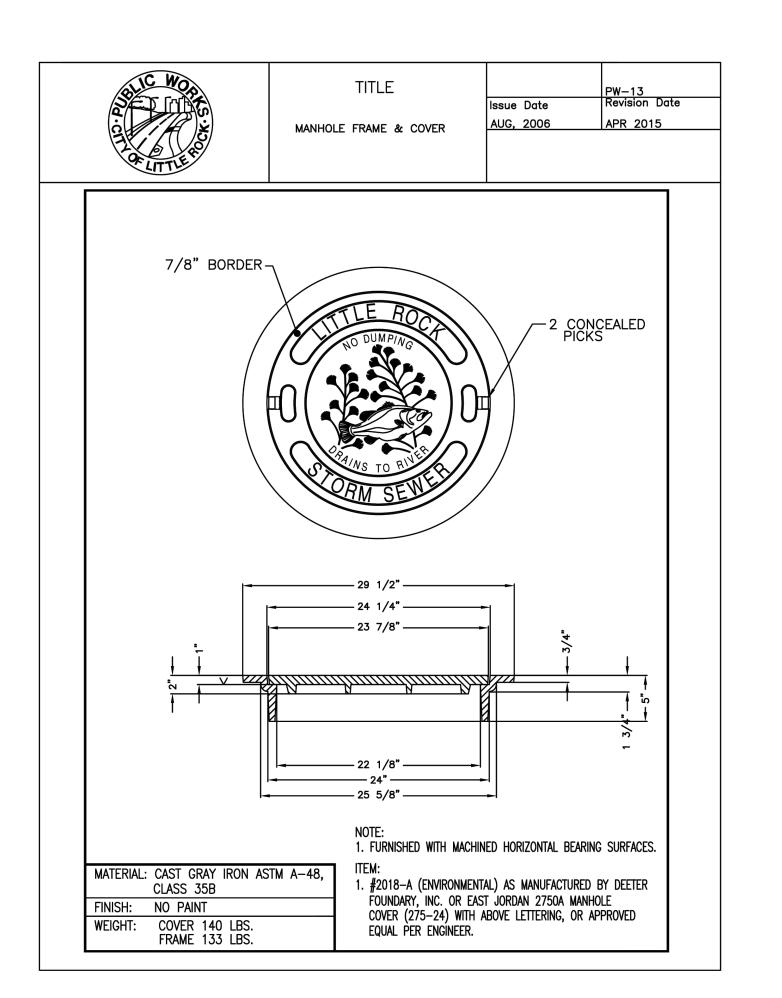










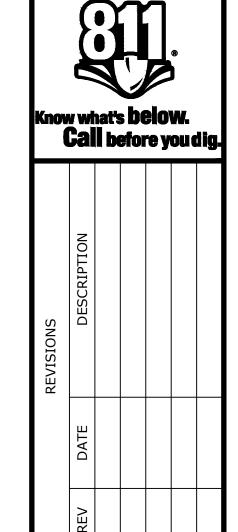




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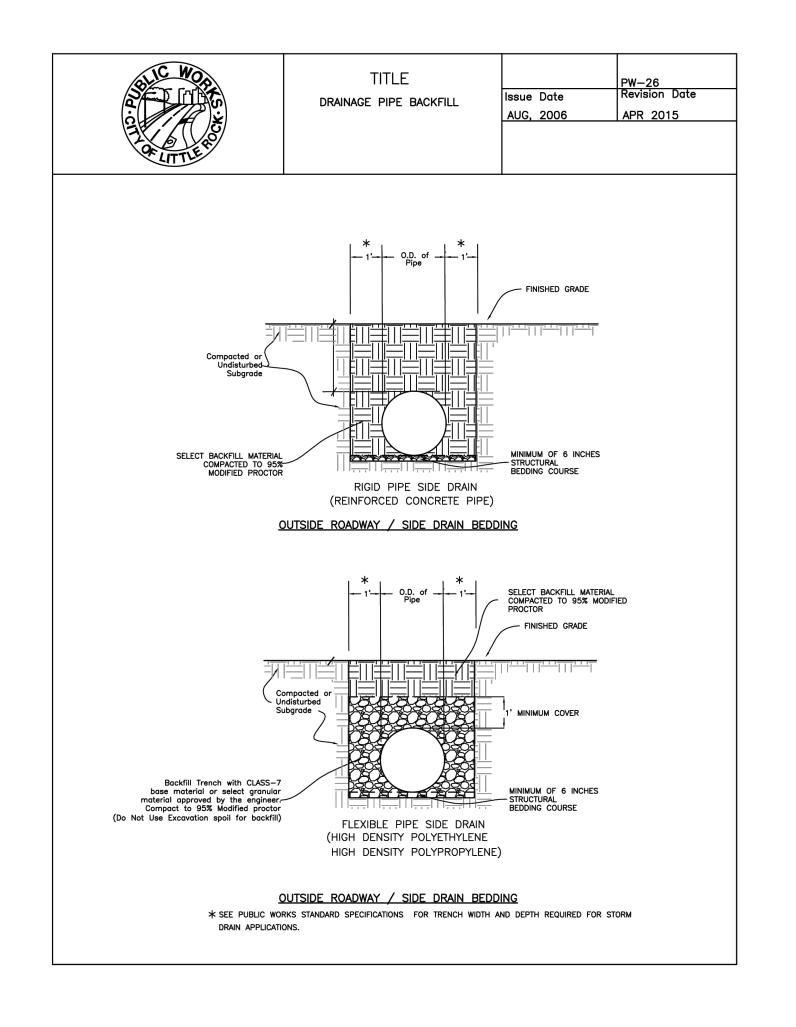
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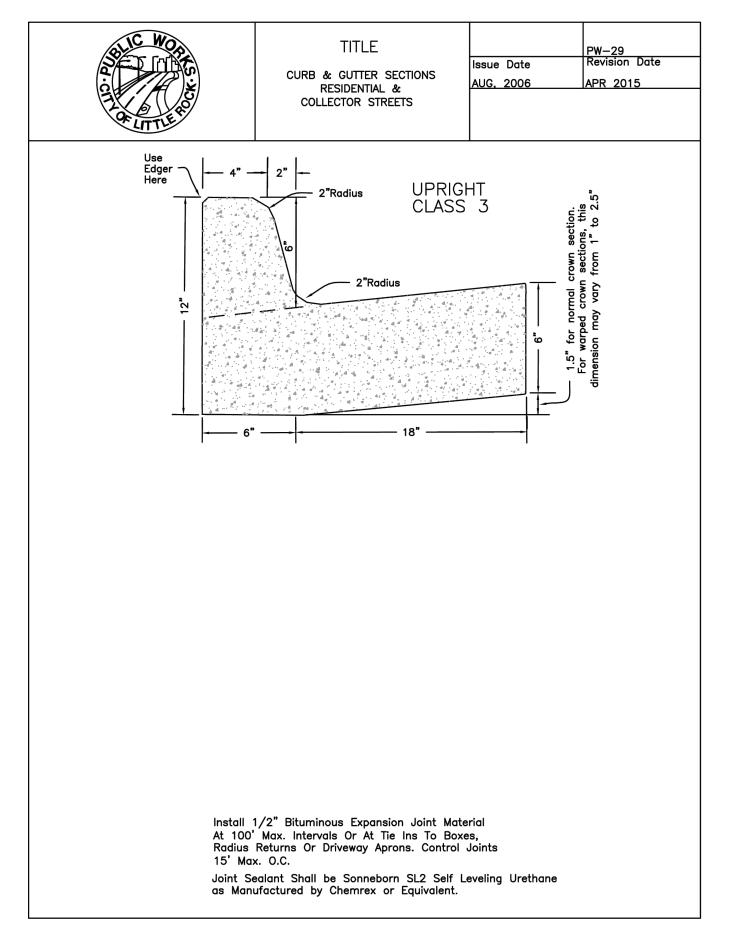
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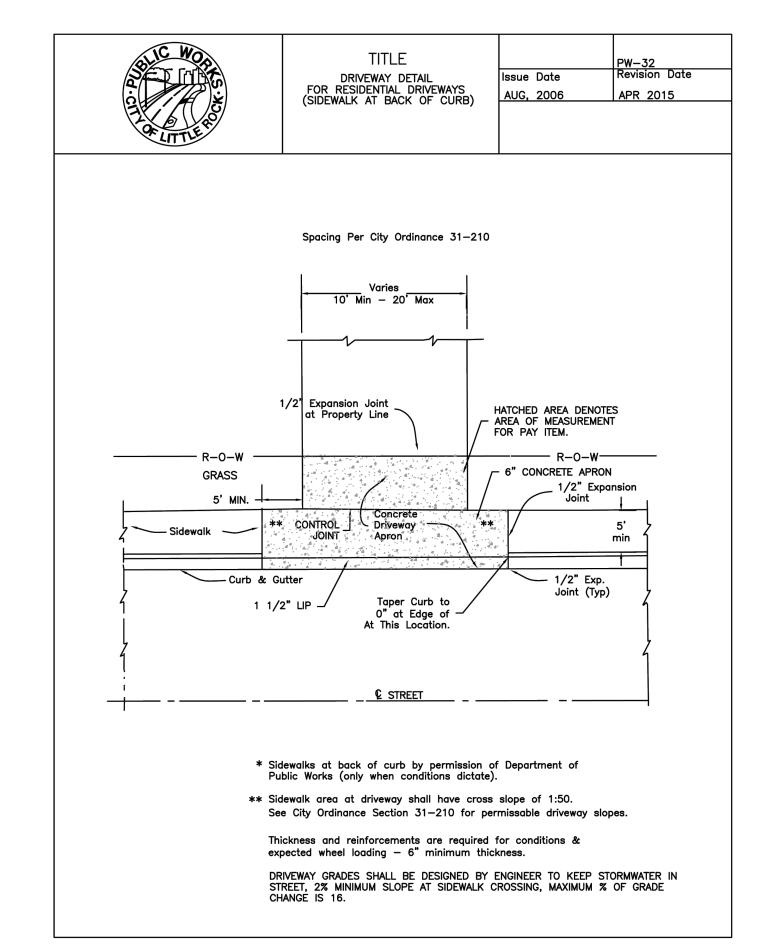


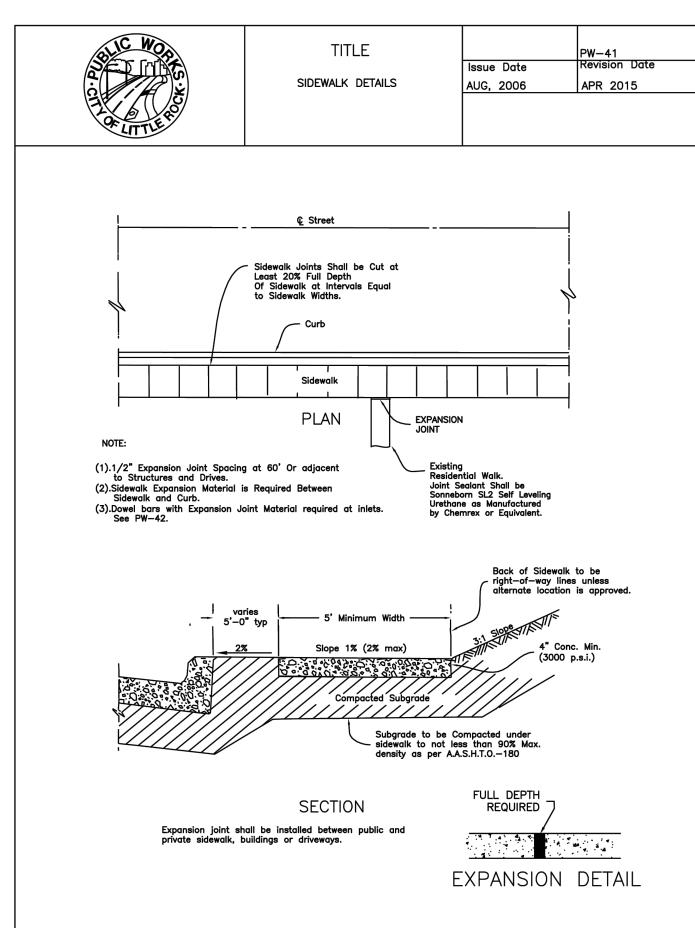
STANDARD DETAILS I

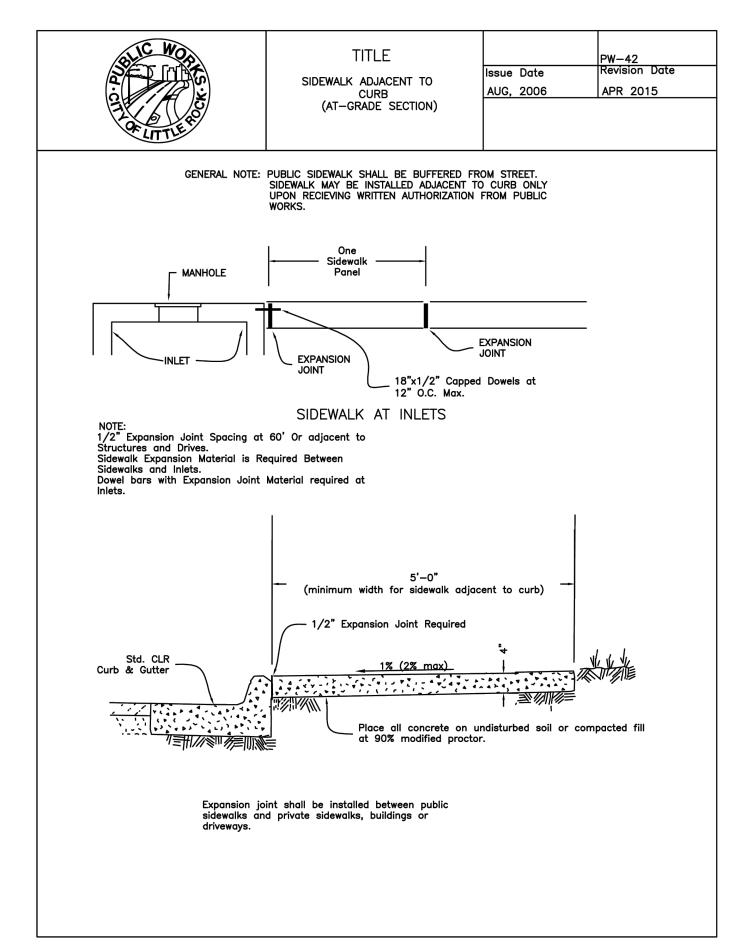
REVISION: JUL 2024 SCALE: JOB NUMBER: 22-5767 N.T.S.

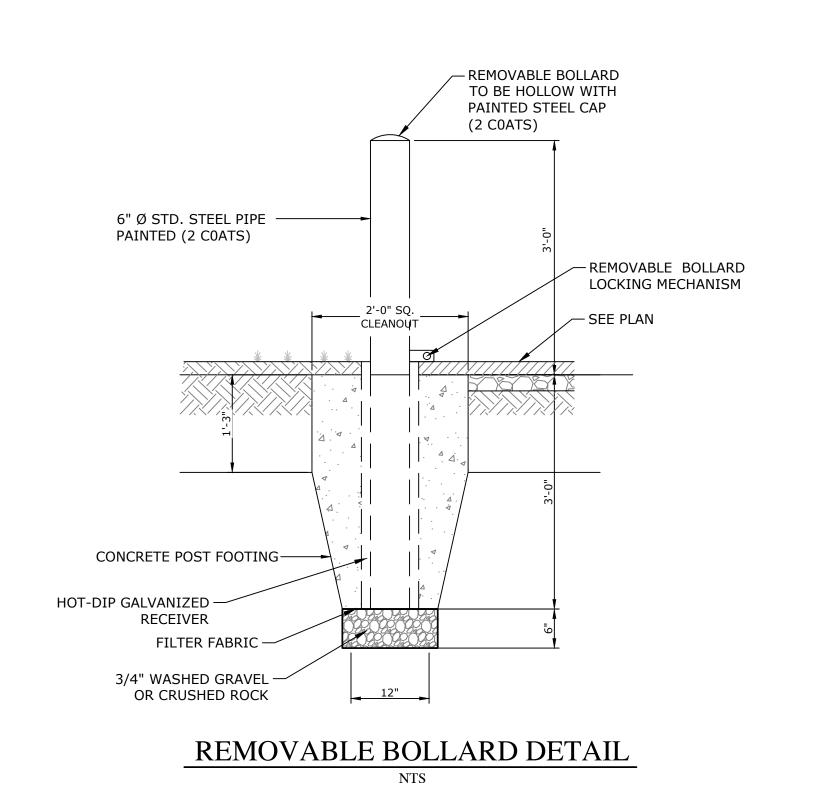












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RAIL (LITTLE ROCK) (S)

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Kevisions

Revisions

Set Date Description

Set Date Description

STANDARD DETAILS II

DESIGNED BY:
WTC

DATE:

JUL 2024

SCALE:

N.T.S.

DRAWN BY:

REVISION:

JOB NUMBER:

22-5767



TITLE

ACCESS RAMP
(GENERAL NOTES & RAMP CRITERIA)

Revision Date
AUG, 2006

APR 2015

- (A) THE SLOPE OF THE RAMP SHALL NOT EXCEED 1:12 (8.33%). CONTRACTORS SHOULD FORM RAMPS AT A GRADE LOWER THAN 8.33% TO ALLOW ROOM FOR CONSTRUCTION TOLERANCES. POURING AND FINISHING RAMPS WITHOUT THE AID OF A DIGITAL LEVEL IN CHECKING GRADES IS DISCOURAGED, BECAUSE CONTRACTORS WILL BE REQUIRED TO REMOVE ANY RAMP WITH GRADES EXCEEDING REQUIREMENTS SHOWN IN STANDARD DETAILS. RAMP SURFACE SHALL BE COURSE BROOMED TRANSVERSE TO THE SLOPE. GROOVES/JOINTS ARE NOT TO BE INSTALLED IN THE RAMP SURFACE.
- (B) THE MINIMUM THICKNESS OF RAMPS, SIDEWALKS AND LANDING AREAS SHALL BE 4 INCHES. CONCRETE TO BE MINIMUM 3000 p.s.i.. EXPOSED AGGREGATE CONCRETE SHALL NOT BE USED ON SURFACE RAMPS. WIRE REINFORCEMENT IS NOT REQUIRED IN RAMPS OR SIDEWALKS UNLESS SPECIFICALLY STATED IN DESIGN PLANS.
- (C) THE MAXIMUM RAMP AND LANDING CROSS-SLOPE SHALL BE 2.0% UNLESS THE STREET GRADE EXCEEDS 2.0%, THEN THE CROSS-SLOPE OF THE RAMP SHALL MATCH THE STREET RUNNING GRADE. DO NOT PROVIDE TRANSITIONAL WARPS IN THE GUTTER, RAMP SURFACE OR LANDING AREA. THE STREET RUNNING GRADE IS MEASURED DIRECTLY IN FRONT OF THE RAMP WITH A 4 FOOT DIGITAL LEVEL AND IS THE GRADE OF THE STREET PERPENDICULAR TO THE RAMP RUNNING SLOPE WHERE THE ASPHALT ABUTS THE GUTTER.
- (D) GUTTER SHALL NOT EXCEED 5.0% DIRECTLY IN FRONT OF A CURB RAMP. NO LIP OR VERTICLE SEPARATION SHALL BE INSTALLED BETWEEN THE GUTTER AND THE RAMP.
- (E) THE MINIMUM RAMP WIDTH SHALL BE 4 FEET. A THREE FOOT WIDE RAMP IS ACCEPTABLE ONLY IN THE CASE OF AN OBSTRUCTION AND WITH PUBLIC WORKS WRITTEN APPROVAL. CURB RAMPS, SIDEWALKS, MEDIAN CUTS AND CROSSWALKS SHALL BE ALIGNED UNLESS NOT POSSIBLE TO AID IMPAIRED USERS.
- (F) RAMP SIDE FLARES SHALL NOT EXCEED 10.0% RELATIVE TO THE STREET. (EXAMPLE: IF THE STREET SLOPE IS 5.0% THEN THE SIDE FLARE SLOPE MAY BE UP TO 15.0% ON THE LOW SIDE TO ALLOW THE THE FLARE TO MATCH CURB HEIGHT IN A REASONABLE DISTANCE. THE SIDE FLARE SLOPE ON THE HIGH SIDE OF THE RAMP WOULD REMAIN AT 10.0% OR LESS GRADE SINCE IT WILL MATCH CURB HEIGHT QUICKLY).
- (G) A MINIMUM 3 FOOT LONG SIDEWALK TRANSITION SHALL BE PROVIDED WHEN MATCHING CURB RAMP/LEVEL LANDING TO EXISTING SIDEWALKS WITH CROSS SLOPE EXCEEDING 2.0%. ADDITIONAL TRANSITION LENGTH MAY BE REQUIRED WHEN MATCHING TO EXISTING SIDEWALK WITH SEVERE CROSS SLOPE.
- (H) MEDIAN CUTS: SHALL BE 6 FEET WIDE FOR TWO-WAY PEDESTRIAN TRAFFIC ALIGNED WITH CROSSING. MEDIAN CUT CROSS SLOPE SHALL BE MAXIMUM 2.0% OR MATCH STREET GRADE WHEN ROADWAY SLOPE EXCEEDS 2.0%.

## (I) RAMP LENGTH IS LIMITED TO 15 FEET.

GENERAL NOTES FOR DETECTABLE WARNING DEVICES

THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF CURB.

TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.

DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINENT DIRECTION OF TRAVEL TO PERMIT THE WHEELS TO ROLL BETWEEN DOMES.

DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

DETECTABLE WARNING DEVICE SHALL BE ON THE AHTD QUALIFIED PRODUCTS

LIST FOR CAST—IN—PLACE TACTILE PANELS (ADA DETECTABLE WARNING)

TRUNCATED 0.9"-1.4"

MEET THE

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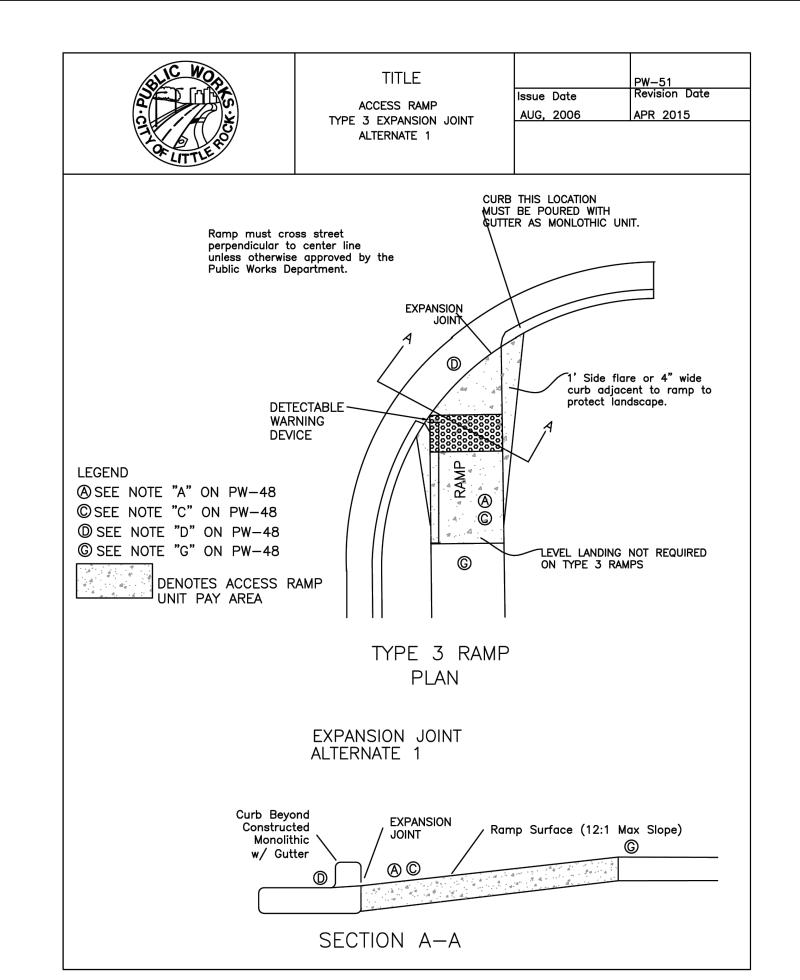
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USH SURFACE.

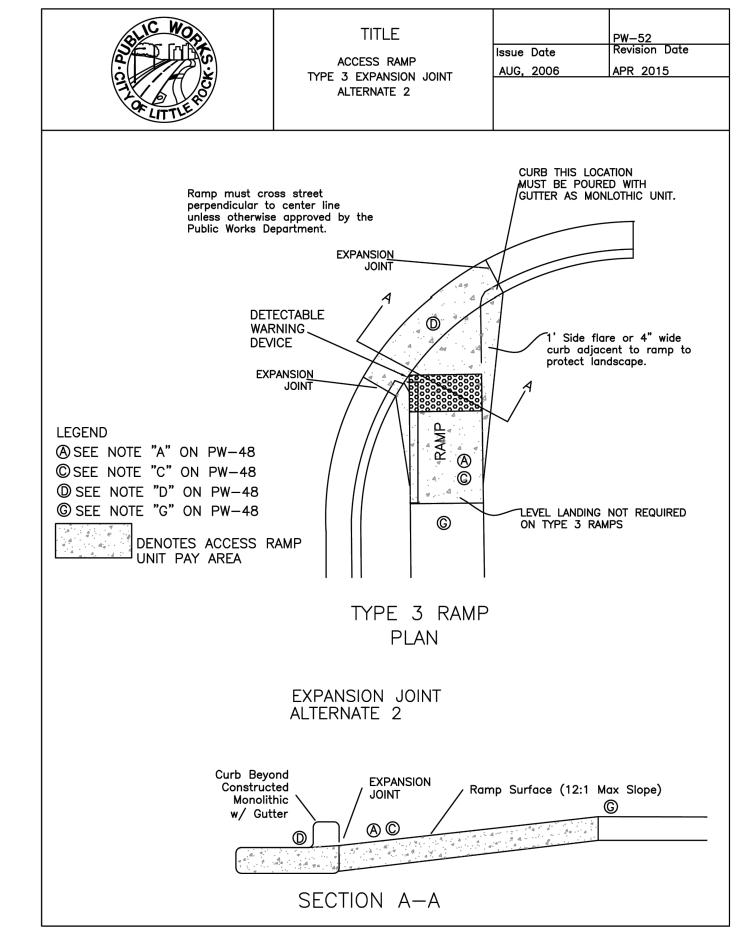
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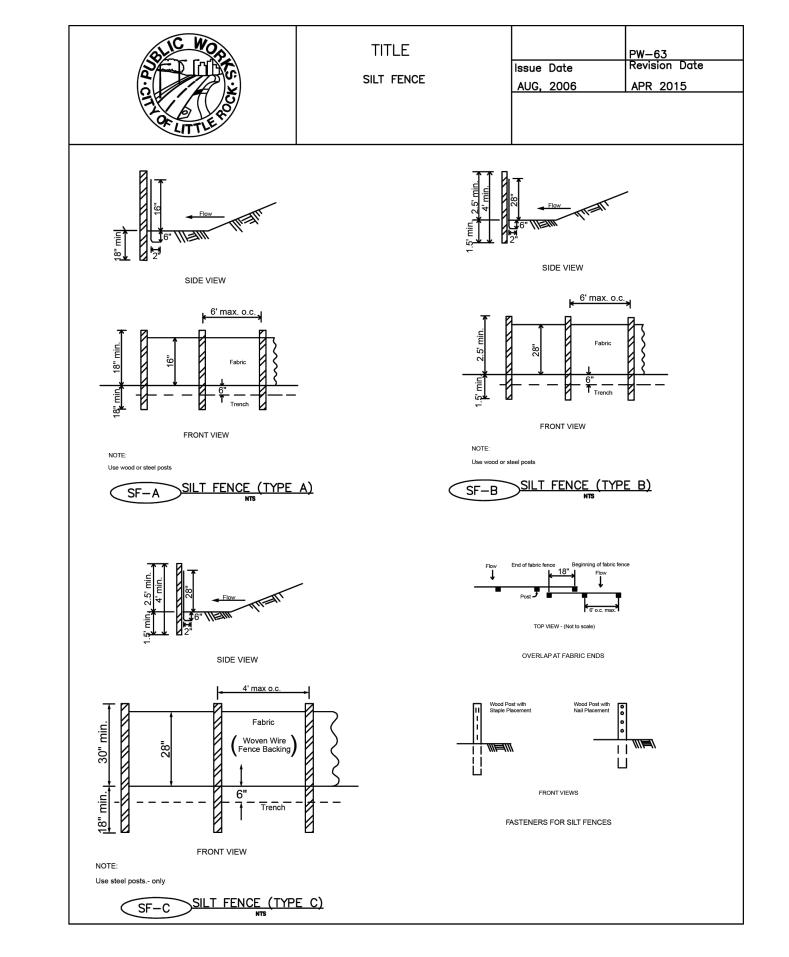
NT TO CURB BOTH NEW CONSTRUCTION AND

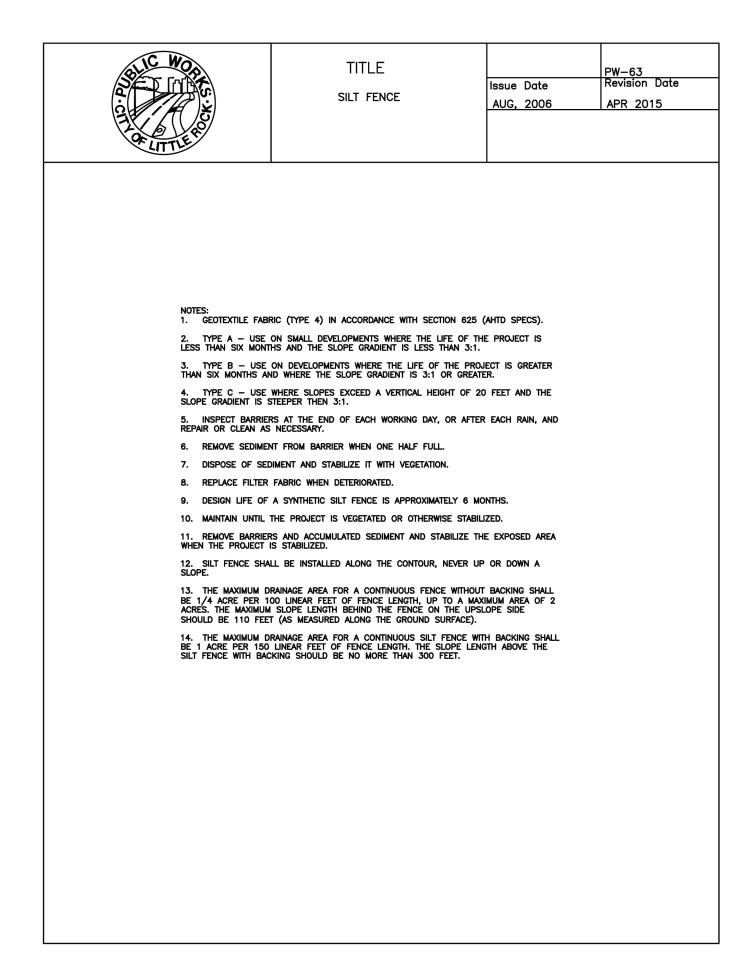
50-65% of Base Dia.

·UK	CAST-II	N-PLAC	EI	ACTILE PANELS (ADA DETECTABLE WARNING).	lax.	Base-Bas
		TYPE	1	CORNER LOCATIONS WITH WALK ADJACENT TO CURB BOTH NEW CONSTRUCTION AIR ALTERATIONS	ND	
	FIRST CHOICE	TYPE :	2	CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE INSUFFICIENT TO REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)	ALLOV	٧
		TYPE :	3	CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE SUFFICIENT TO REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)	ALLOW	
		TYPE -	4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS)		
	SECOND	TYPE :	5	TANGENT LOCATIONS (ALTERATIONS ONLY)		









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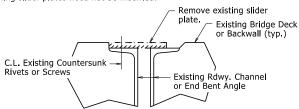
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STANDARD DETAILS III

DESIGNED BY: DRAWN BY:
WTC WTC
DATE: REVISION:
JUL 2024
SCALE: JOB NUMBER:
N.T.S. 22-5767

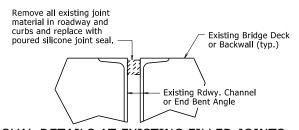
### REMOVAL DETAILS AT EXISTING SLIDER PLATE JOINTS

At the direction of the Engineer, the portion of existing slider plate shown shall be removed and replaced with a new plate as shown in "SLIDER PLATE JOINT MODIFICATION". The portion of existing slider plate shall be removed and disposed of in accordance with Section 821. The cut face shall be ground square and flush with the face of the existing angle or channel. Removal and disposal of existing slider plate material will not be pald for directly, but shall be considered subsidiary to the item "Silicone Joint Sealant". Properly functioning slider plates need not be modified.



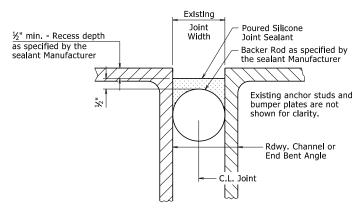
### REMOVAL DETAILS AT EXISTING SLIDER PLATE JOINTS WITH GRADE RAISE

The existing slider plate shown shall be removed and replaced with new plates as shown in "JOINT MODIFICATION WITH GRADE RAISE". The existing slider plate shall be removed and disposed of in accordance with Section 821. Removal and disposal of existing slider plate material will not be paid for directly, but shall be considered subsidiary to the item "silicone Joint Sealant".



## REMOVAL DETAILS AT EXISTING FILLED JOINTS

The existing joint material shall be removed and disposed of in accordance with Section 821. Removal and disposal of existing joint material will not be paid for directly, but shall be considered subsidiary to the Item "Silicone Joint Sealant".



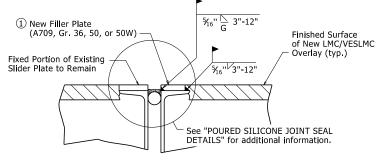
## POURED SILICONE JOINT SEAL DETAILS

Existing Joint Seal shall be completely removed, backer rods placed, and Silicone Joint Sealant installed across the entire width of the bridge deck in accordance with these details, Section 809, and the Manufacturer's recommendations. Removal of existing Joint Seal will not be pald for directly, but shall be considered incidental to the item "Silicone Joint Sealant".

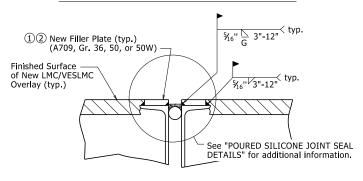
Backer rods shall be extended beyond the length of the poured joint in the initial joint repair area so that the two pieces can be properly spliced together prior to installing sealant for the adjacent joint repair. Manufacturer's recommendations shall be followed to prevent sealant leakage during repair work.

Backer rods shall be appropriately sized and set to the depth shown in the Manufacturer's literature based on the joint width at the time of sealing. Except as noted, do not install more backer rod than can be sealed in the same day. The Contractor shall verify separation of the backer rod from the joint material after joint material has set.

Backer rod shall be notched or otherwise fit around any existing seal supports or bumper plates to maintain its proper depth as defined above.



## SLIDER PLATE JOINT MODIFICATION

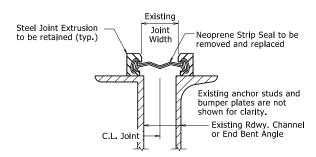


## JOINT MODIFICATION WITH GRADE RAISE

① New field attached plates atop existing roadway channels or angles are required. The plate thickness shall be adjusted as necessary to match surface of finished surface of LMC/VESLMC Overlay and the width shall be ¾" less than the existing channel flange or angle width to allow for fillet weld as shown.

All new Structural Steel shall be ASTM A709 (Gr. 36, 50, or 50W). The surfaces not in contact with concrete shall be cleaned and painted in accordance with Section 638. Only one coat of paint is required and shall be applied in the fabricator's shop. Grade 50W steel shall not be painted, but shall be cleaned in accordance with Subsection 807.84(e). Structural Steel and Painting will not be paid for directly, but shall be subsidiary to the item "Silicone Joint Sealant".

② Details shown are for an expansion joint where two bridge units meet. Eliminate filler plate on backwall and proceed with backwall repair in accordance with "BACKWALL REPAIR REMOVAL DETAIL" and "BACKWALL REPAIR INSTALLATION DETAIL" at end bents for bridge decks with grade raise, see Standard Drawling Number 55065.



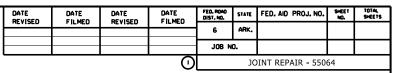
## STRIP SEAL JOINT DETAILS

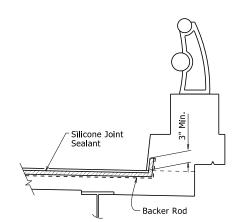
Existing neoprene strip seal joint material shall be completely removed and new neoprene strip seal joint material shall be installed across the entire width of the steel extrusions in accordance with these details, Section 809, and the Manufacturer's recommendations. Prior to installing the new joint material, the Contractor shall clean the steel extrusion at the Engineer's direction and in accordance with the new strip seal joint material Manufacturer's recommendations.

Removal and replacement of the existing neoprene strip seal joint material will require the removal of the parapet slider plates, where present. Parapet slider plates removed for this work shall be reinstalled after installation of the new neoprene strip seal joint material.

The new neoprene strip seal joint material shall provide a movement rating of four inches. The repaired expansion joint shall be capable of sealing the deck surface and parapet area to prevent moisture and other contaminants from descending through the joint.

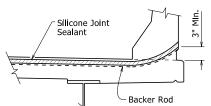
All work and material associated with removing the existing joint material, cleaning the extrusions, removal and reinstallation of parapet slider plates, and installation of new joint material shall be paid for under the item "Modification of Existing Bridge Structure (Bridge No. \_)".



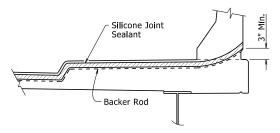


## SILICONE JOINT SEAL PLACEMENT AT CURB

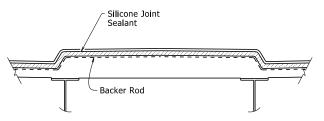
Vertical joints may require forming. The clearance from deck surface to joint material shall be maintained.



### SILICONE JOINT SEAL PLACEMENT AT RAIL



## SILICONE JOINT SEAL PLACEMENT AT SIDEWALK



SILICONE JOINT SEAL PLACEMENT AT MEDIAN

# STANDARD DETAILS FOR JOINT REPAIRS & MODIFICATIONS

# ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARK.

DRAWN BY:	KWY	DATE: 11/7/2019	FILENAME: b55064.dgn
CHECKED BY:	SWP	DATE: 11/7/2019	SCALE: None
DESIGNED BY:	STD.	DATE:	

BRIDGE ENGINEER

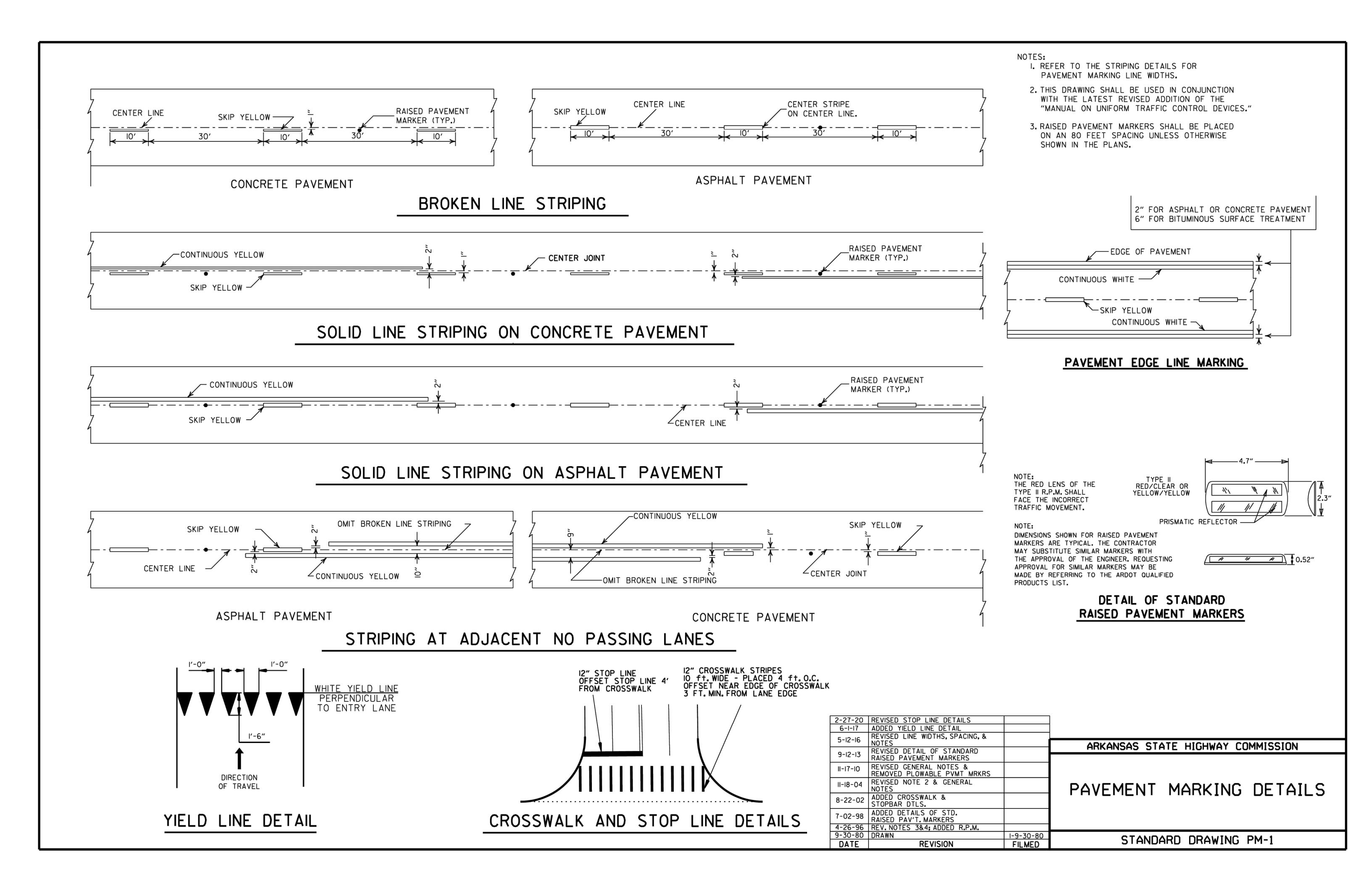
Constr. Joint

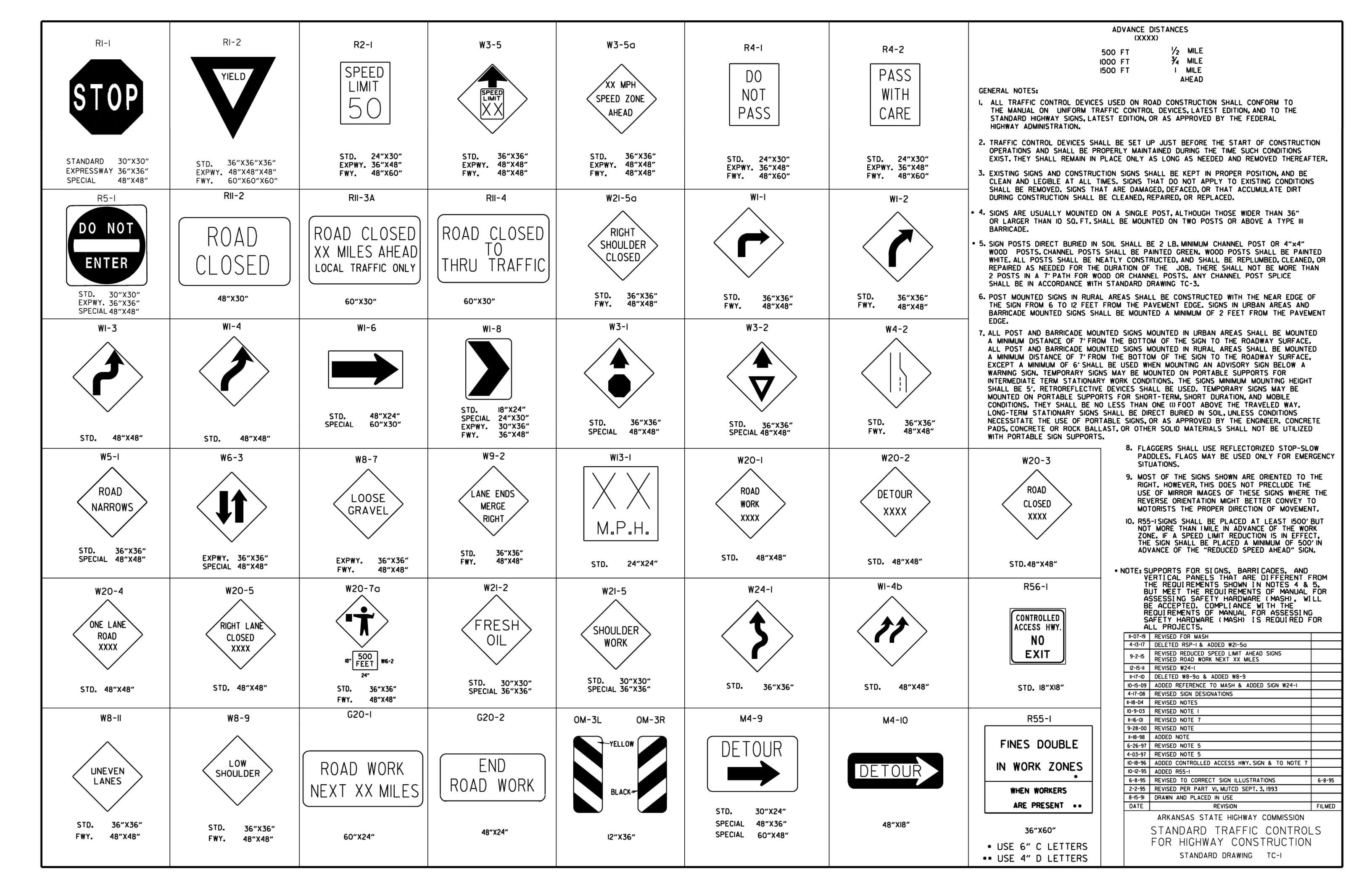
PLAN VIEW OF FILLER PLATE

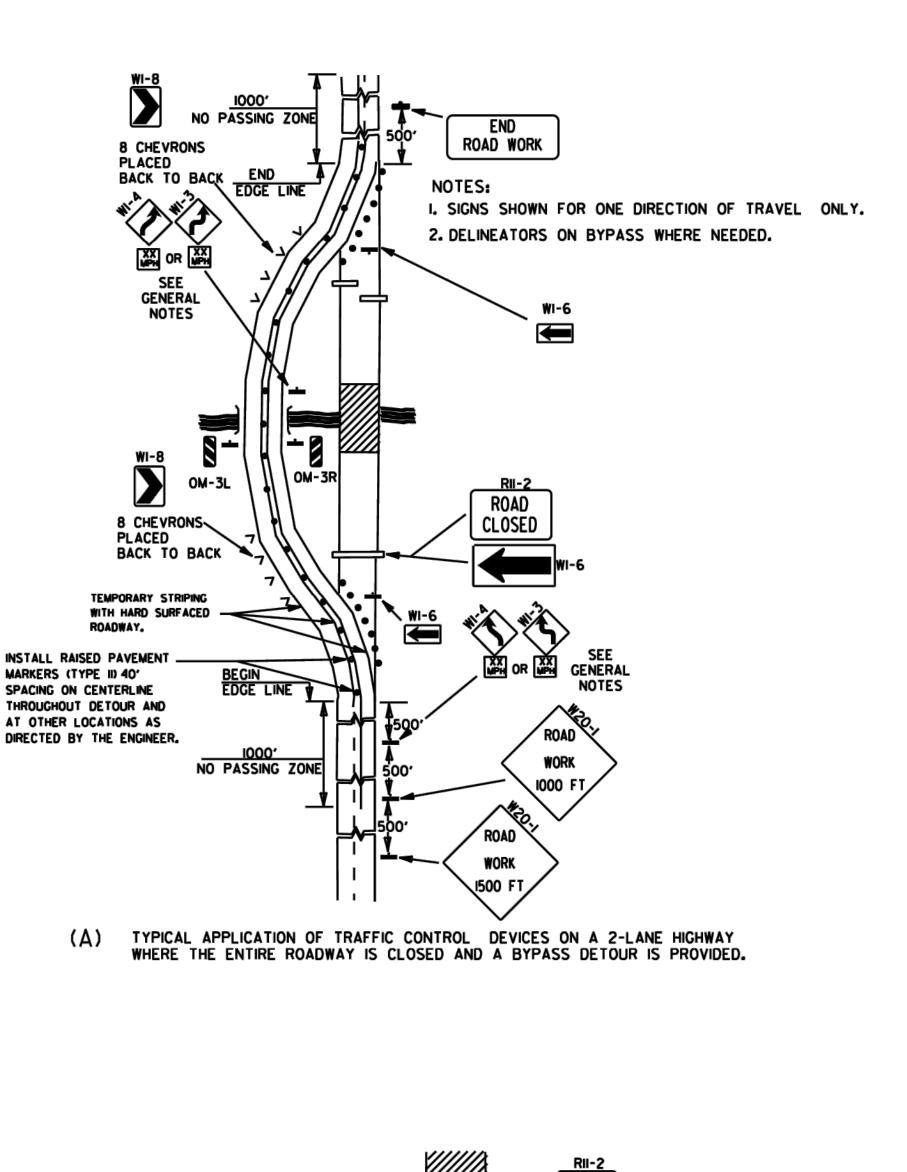
Top of Filler Plates

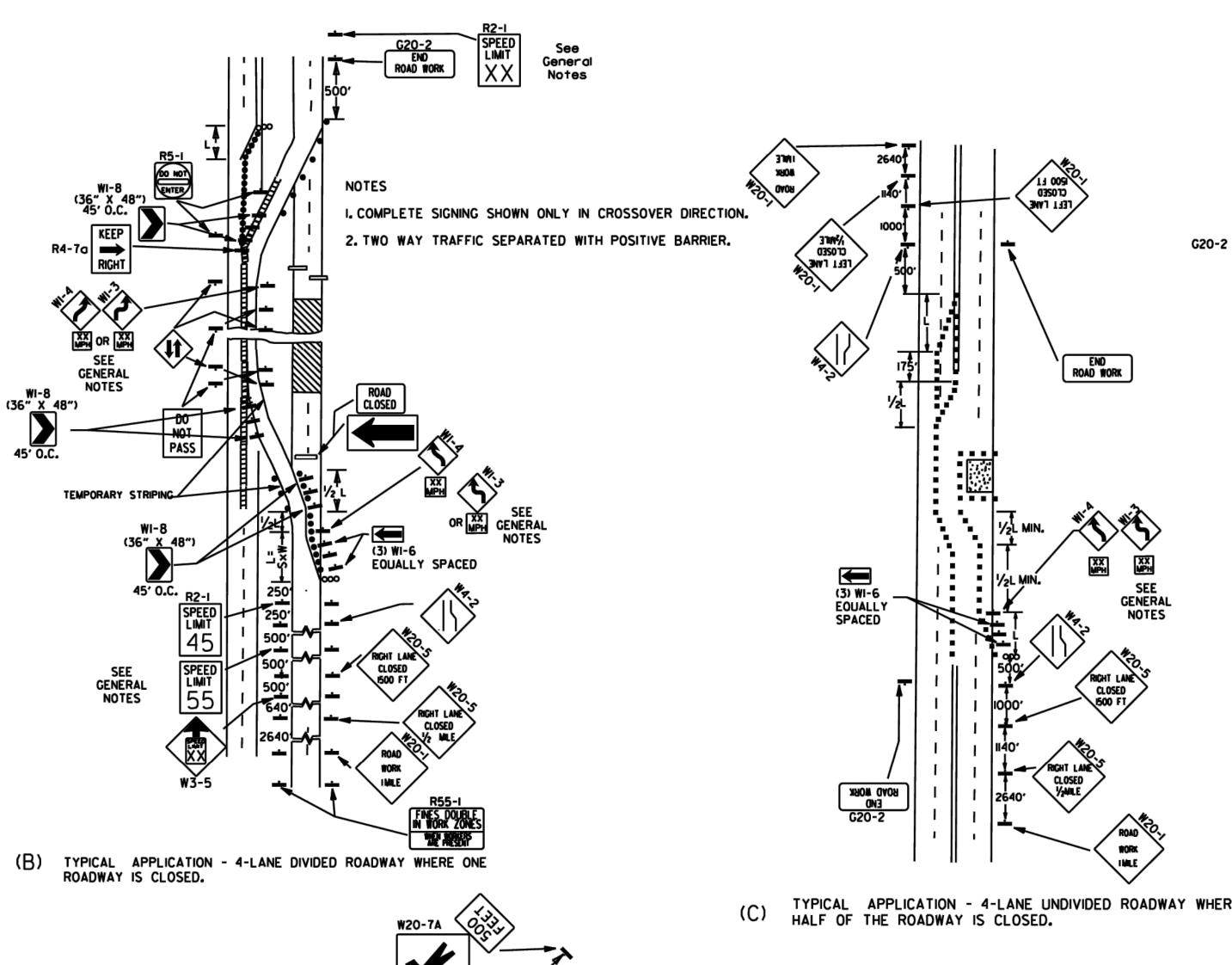
5/16" □

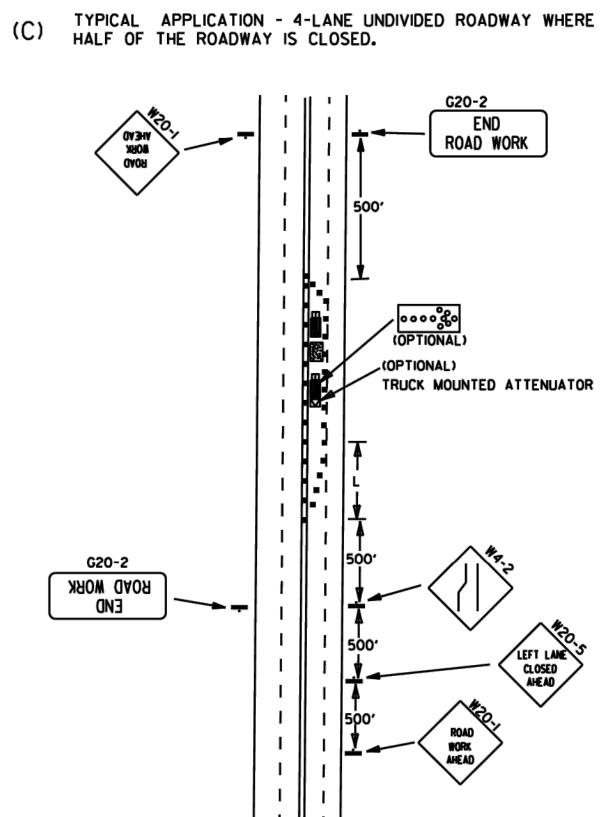
DRAWING NO. 55064

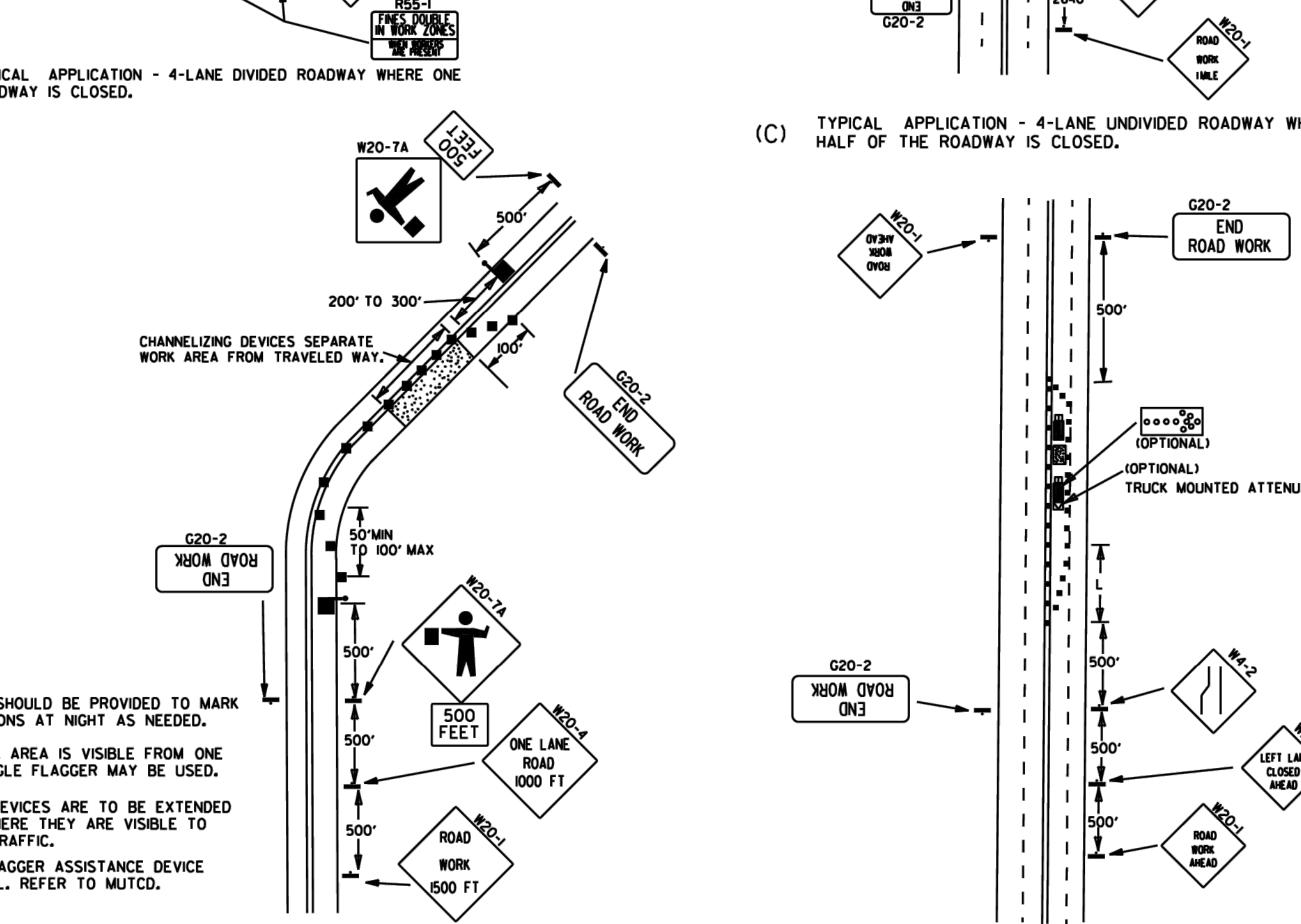












POSITIVE BARRIER ARROW PANEL (IF REQUIRED) TYPE I BARRICADE CHANNELIZING DEVICE TRAFFIC DRUM RAISED PAVEMENT MARKER 500 FT RED/CLEAR OR YELLOW/YELLOW 1000 FT REFLECTOR DETAIL OF RAISED PAVEMENT MARKERS 1500 FT TYPICAL ADVANCE WARNING SIGN PLACEMENT

KEY:

FLAGGER

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE.

L= WS FOR SPEEDS OF 40MPH OR LESS.

L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

GENERAL NOTES:

I. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-3 WHEN 30MPH OR LESS

2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-K55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-K45) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES

THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER. 5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED

TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.

6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.

7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED

8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.

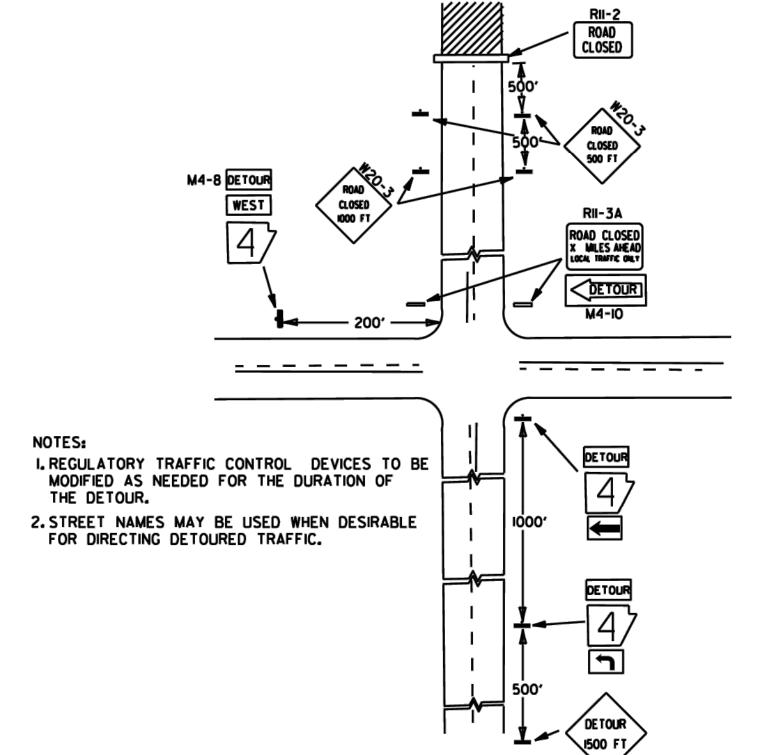
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

05-20-21	REVISED NOTE 7			
11-07-19	REVISED NOTE I, ADDED NOTE 9			
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5			
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS			
3-11-10	ADDED (AFAD)			
II-20-08	REVISED SIGN DESIGNATIONS			
11-18-04	ADDED GENERAL NOTE			
10-18-96	ADDED R55-I			
4-26-96	CORRECTED (a) BEHIND G20-2			
6-8-95	CORRECTED SIGN IDENT. ON WI-4A	6-8-95		
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993			
8-15-91	DRAWN AND PLACED IN USE			
DATE	REVISION	FILMED		

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2

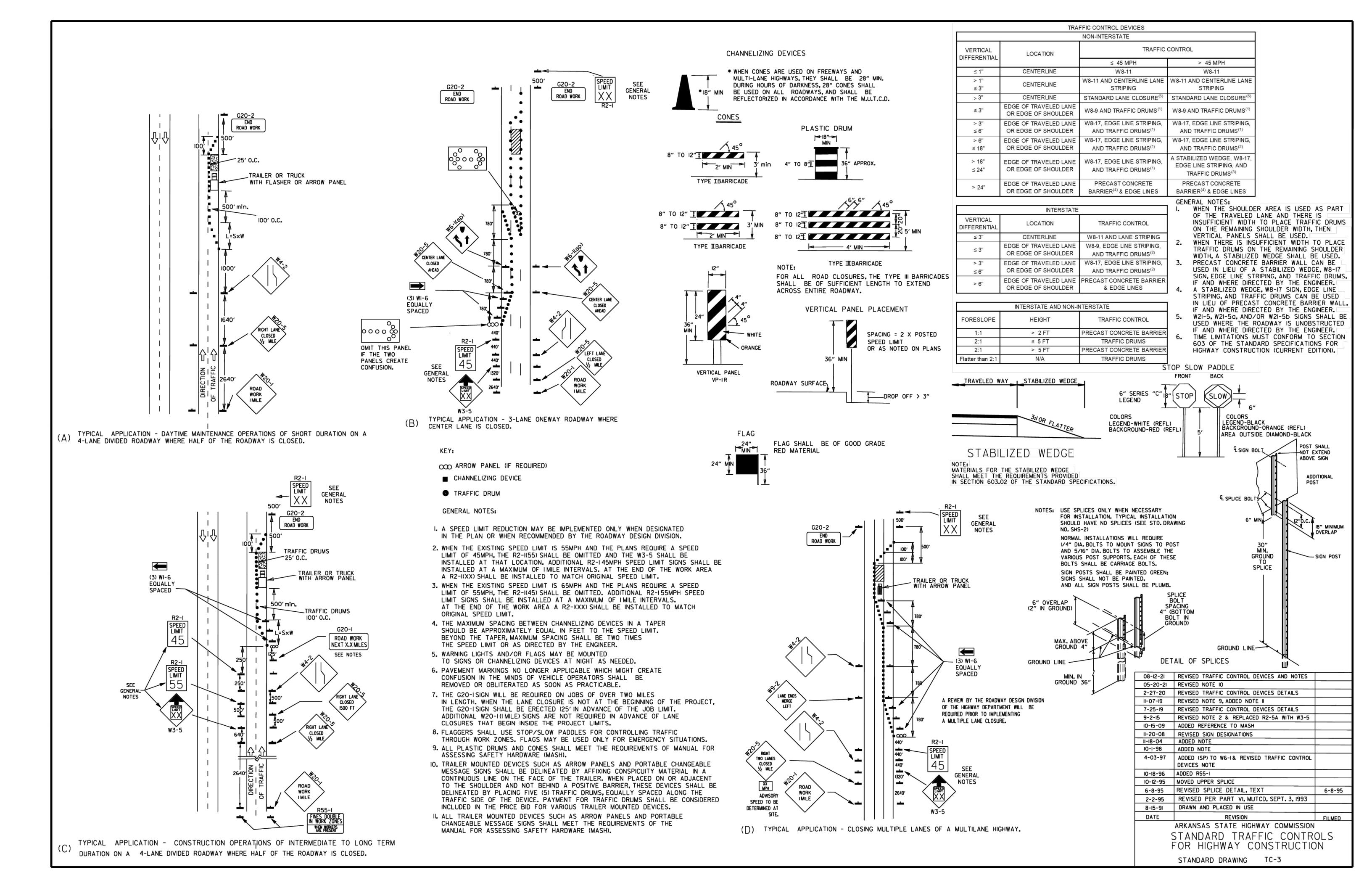


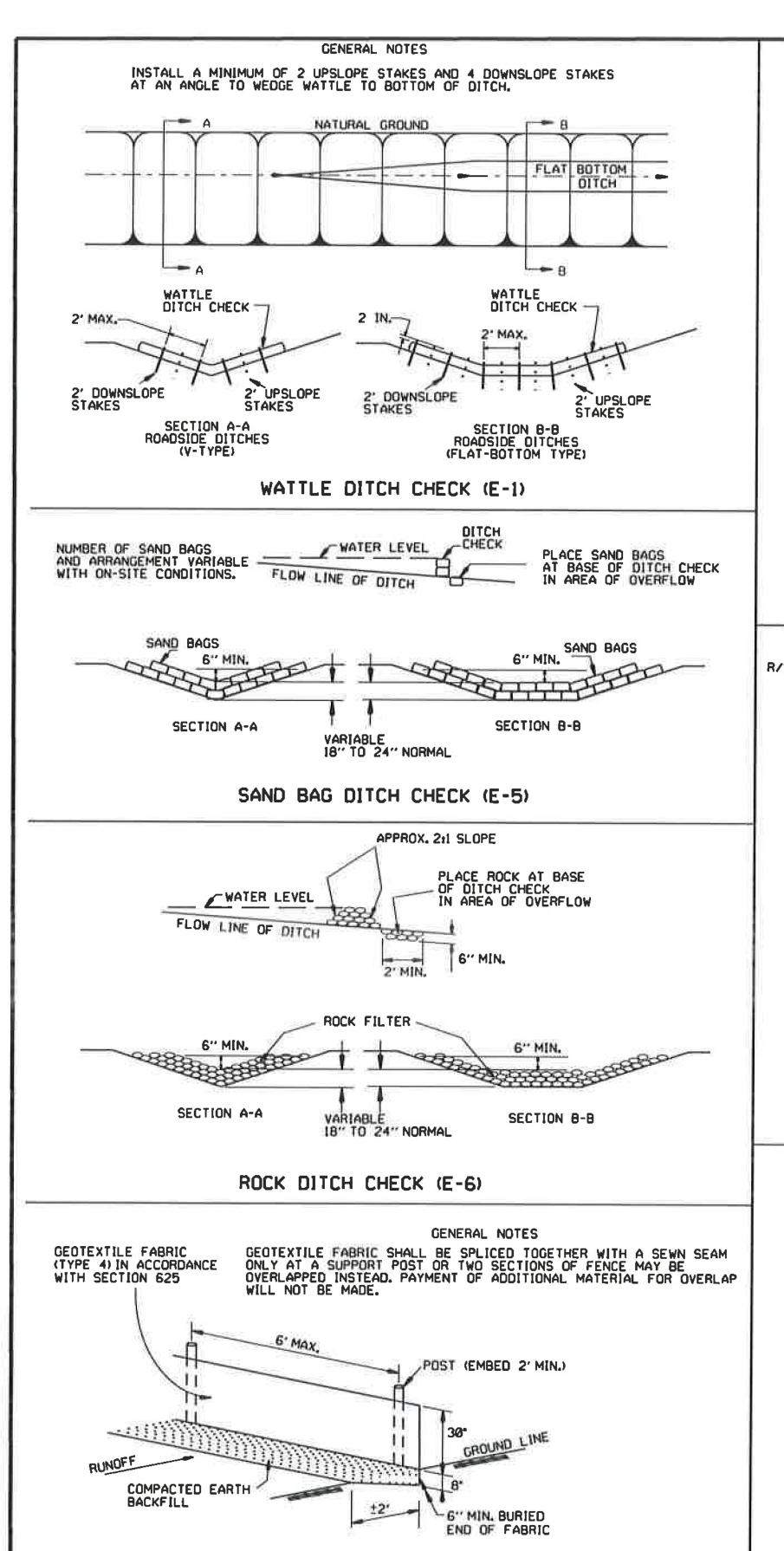
TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.

NOTES: I. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED. 2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED. 3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC. 4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

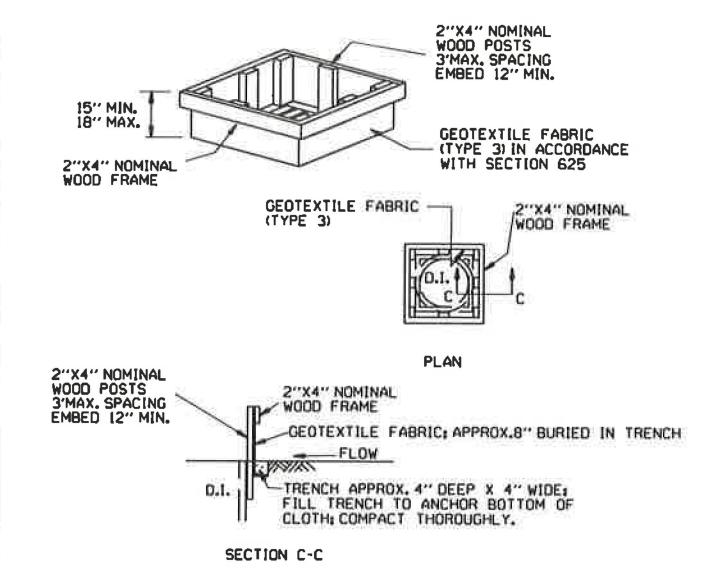
> TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

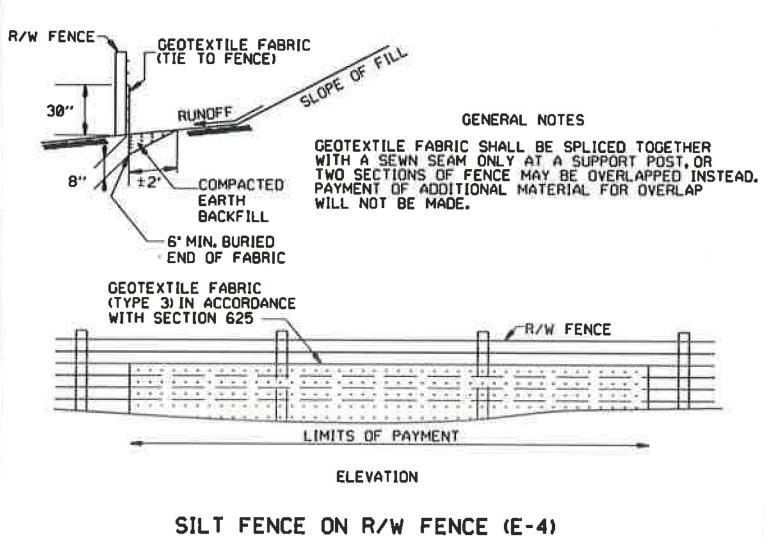




SILT FENCE (E-11)



## DROP INLET SILT FENCE (E-7)

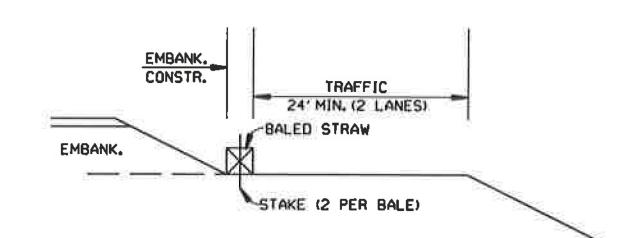


## GENERAL NOTES

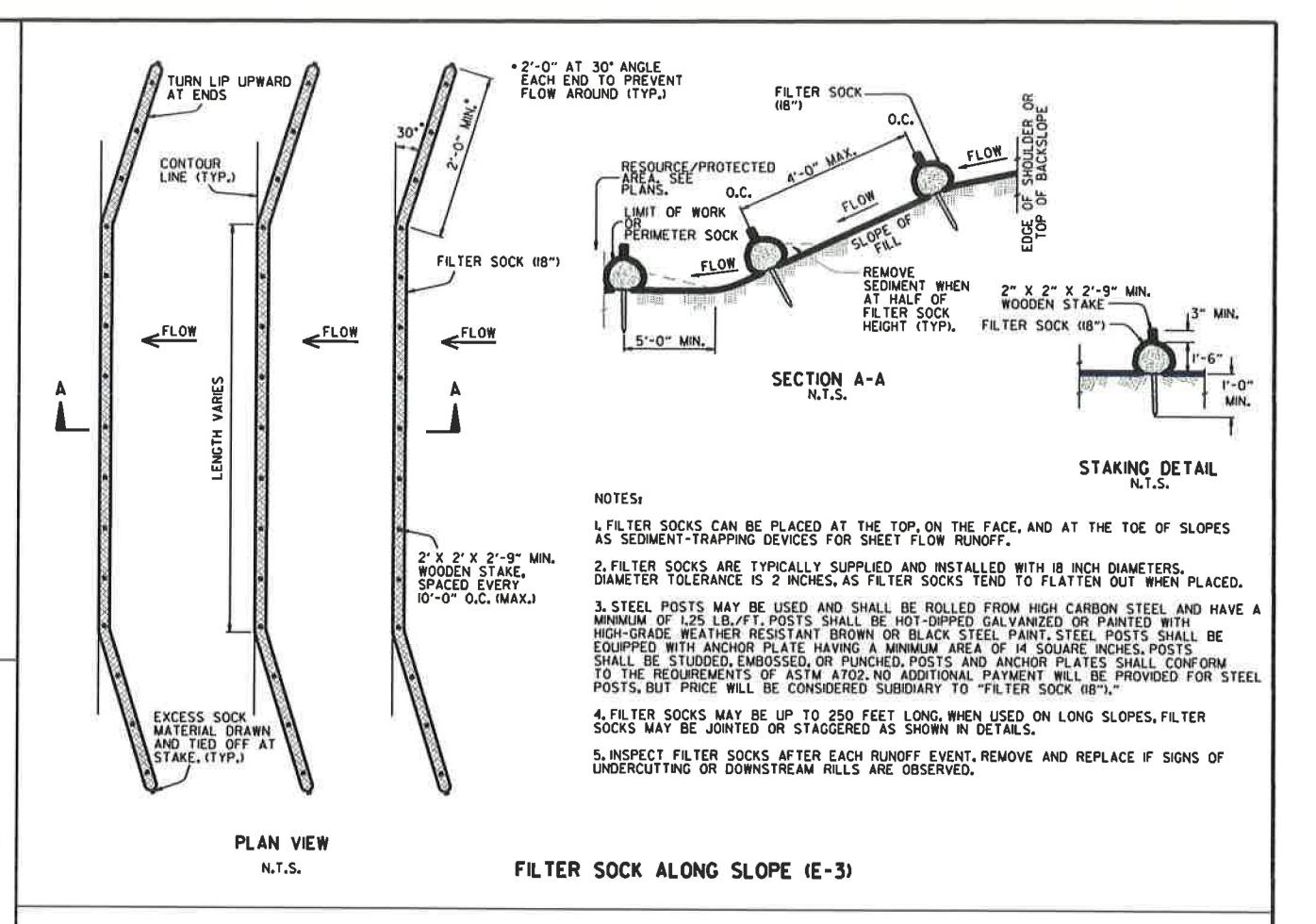
I.STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

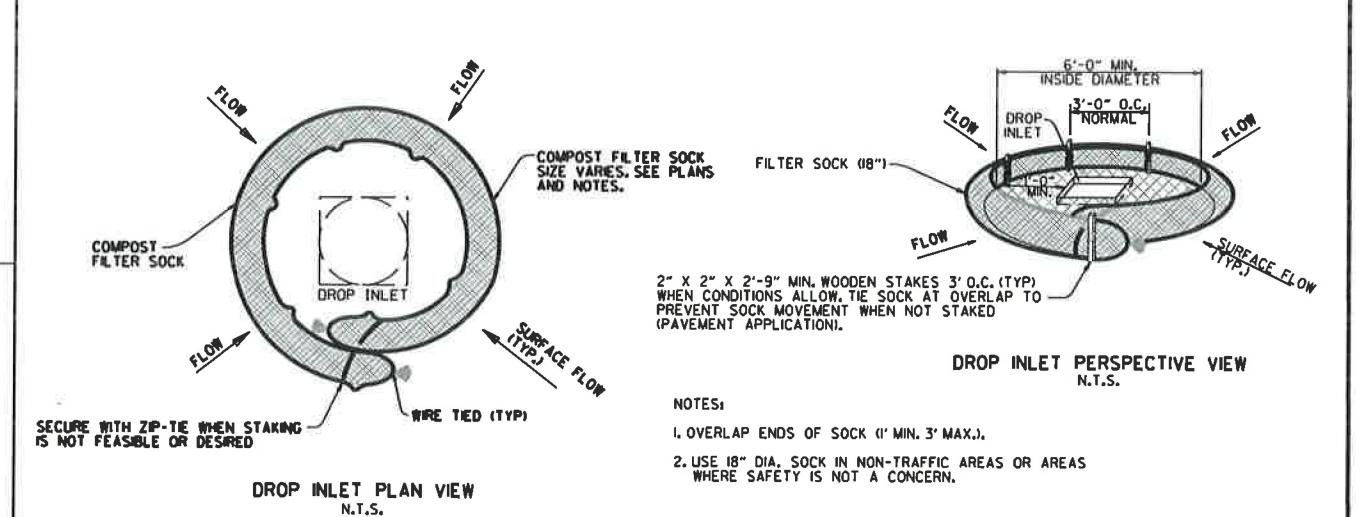
## 2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)





# COMPOST FILTER SOCK DROP INLET PROTECTION (E-I3)

11-16-17	ADDED FILTER SOCK E-3 AND E-13			
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK		ADVANCAC CTATE INCURAN COMMISSION	
11-18-98	ADDED NOTES		ARKANSAS STATE HIGHWAY COMMISSION	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)			
07-20-95	REVISED SILT FENCE E-4 AND E-II	7-20-95	TEMPORARY EROSION	
07-15-94	REV. E-4 & E-II MIN. 13" BURIED END OF FABRIC			
06-02-94	REVISED E-1,4.7 & II; DELETED E-2 & 3	6-2-94	CONTROL DEVICES	
04-01-93	REDRAWN		CONTROL DEVICES	
10-01-92	REDRAWN	000000000000000000000000000000000000000		
08-02-76	ISSUED R,D.M.	298-7-28-76	STANDARD DRAWING TEC-I	
DATE	REVISION	FILMED	STANDARD DRAWING TECT	