

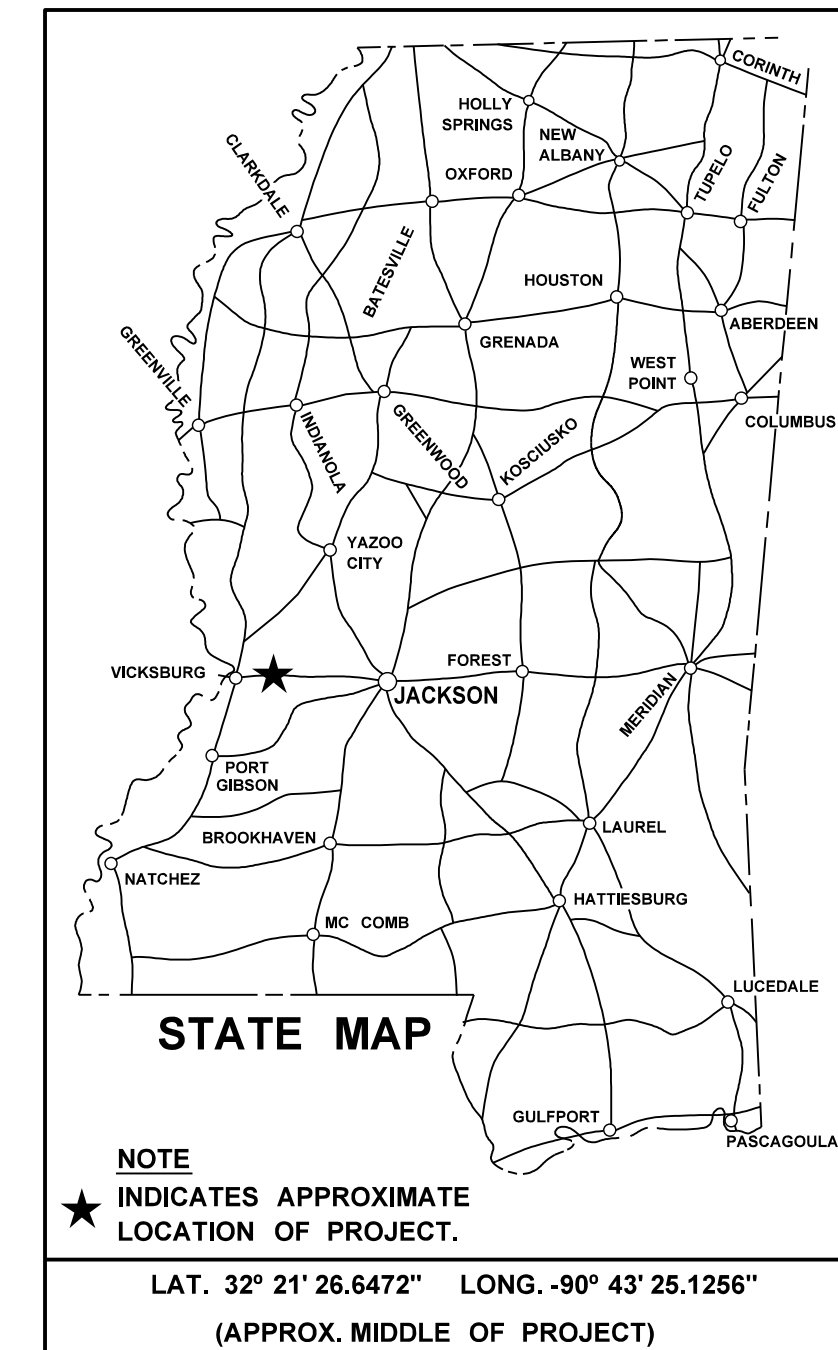
STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FEDERAL AID PROJECT NO. NHPP-0020-01(259)

I-20 over Clear Creek (#s 12.0A & 12.0B) – Bridge Repair FMS CON. NO. 108397 / 302000 WARREN COUNTY

STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	NHPP-0020-01(259)	1



GENERAL INDEX

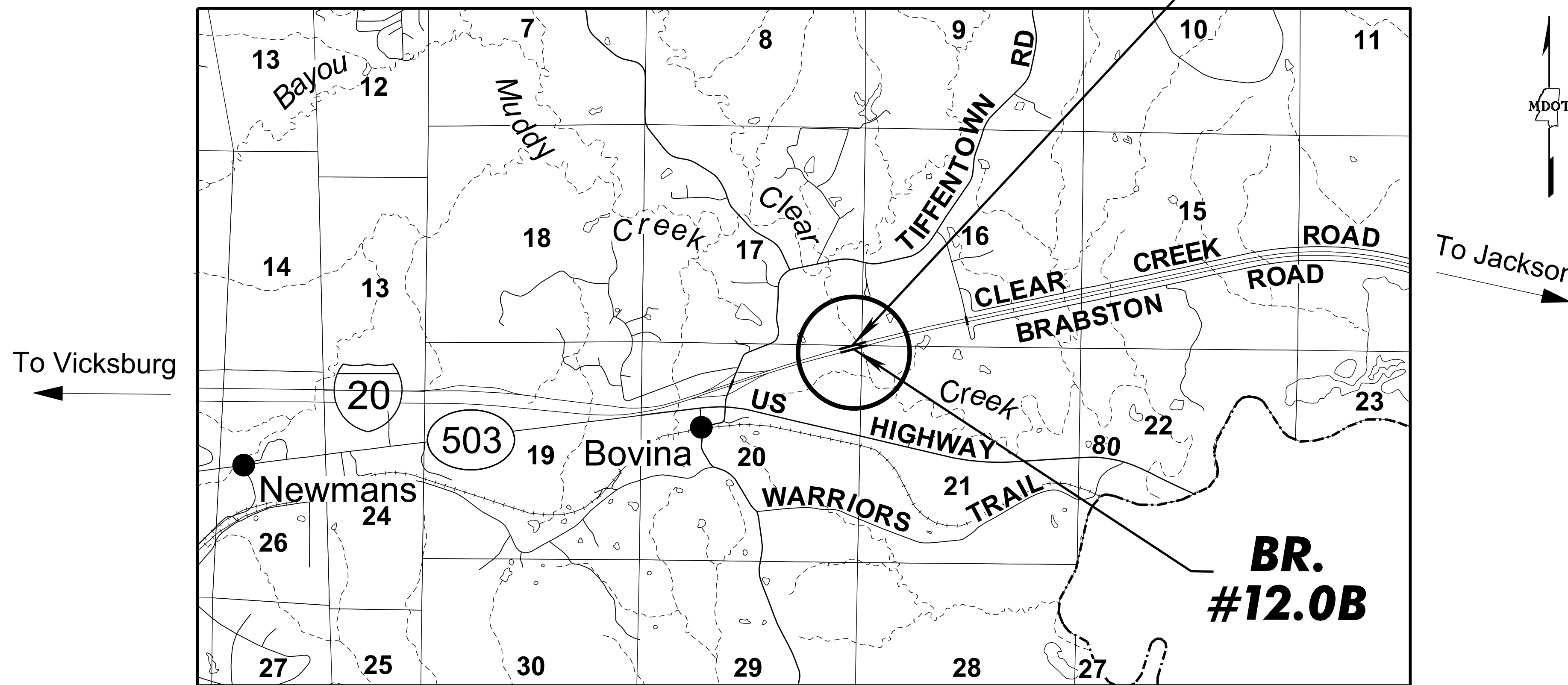
INCLUDED THIS PROJECT	BEGIN WITH SHEET
<input checked="" type="checkbox"/> ROADWAY	1
<input type="checkbox"/> PERMANENT SIGNS	1001
<input type="checkbox"/> TRAFFIC SIGNALS	2001
<input type="checkbox"/> ITS COMPONENTS	3001
<input type="checkbox"/> LIGHTING	4001
<input type="checkbox"/> (RESERVED)	5001
<input checked="" type="checkbox"/> ROADWAY STANDARD DWGS	6001
<input type="checkbox"/> BOX CULVERT STD. DRAWINGS (LRFD)	7001
<input type="checkbox"/> BOX CULVERT STD. DRAWINGS (STD. SPEC.)	7501
<input checked="" type="checkbox"/> BRIDGE	8001
<input type="checkbox"/> CROSS SECTIONS	9001

BRIDGE STRUCTURES REQ'D.

BOX BRIDGES REQ'D.

SCALES

PLAN	1 IN. = 100 FT.
PROFILE	HOR. 1 IN. = 100 FT.
	VERT. 1 IN. = 10 FT.
LAYOUT	1 IN. = 2000 FT.



DESIGN CONTROL

MPH = V (SPEED DESIGN)

ADT ( ) = : ADT ( ) =

DHV = : D = % T = %

PERMITS ACQUIRED BY MDOT

	WATERS	WETLANDS
NATIONWIDE #14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NATIONWIDE (OTHER)*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GENERAL*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
INDIVIDUAL (404)*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

STORMWATER PERMIT

Y REQUIRED, CNDI SUBMITTED BY MDOT (DISTURBED AREA = 5 ACRES)

S REQUIRED, SCNDI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)

N NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: \_\_\_\_\_

CONVENTIONAL SYMBOLS

COUNTY LINE	-----
TOWN CORPORATION LINE	-----
SECTION LINE	-----
EXISTING ROAD OR TRAVELED WAY	-----
PROPOSED ROAD OR TRAVELED WAY	-----
RAILROAD	-----
SURVEY LINE	-----
BRIDGES	-----

EQUATIONS

EXCEPTIONS

LENGTH DATA

LENGTH OF ROADWAY	FT.	MI.
LENGTH OF BRIDGES	FT.	MI.
LENGTH OF PROJECT (NET)	FT.	MI.
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)	FT.	MI.

P S & E DATE: 8/19/2020

APPROVED: \_\_\_\_\_

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR

**MDOT**  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

B:\19\2020\12148 PM\TILE.DGN TITLE DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1st O.REV.

STATE	PROJECT NO.
MISS.	NHPP-0020-01(259)

DESCRIPTION OF SHEET


WKG. NO.      SH. NO.

TITLE SHEET (1)		1
DETAILED INDEX & GENERAL NOTES (2)		
DETAILED INDEX	DI-1	2
GENERAL NOTES	GN-1	3
QUANTITY SHEETS (1)		
SUMMARY OF QUANTITIES	SQ-1	4
SPECIAL DESIGN SHEETS (1)		
DETAIL CONSTRUCTION SIGNING	DCS-1	5
STANDARD DRAWINGS - ROADWAY SHEETS (6)		
INLET PROTECTION DETAILS OF WATTLES	ECD-13	6113
FLOATING TURBIDITY CURTAIN	ECD-20	6120
SUPER SILT FENCE	SSF-1	6130
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)	TCP-5	6355
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	TCP-8	6358
DETAILS OF OUTSIDE LANE CLOSURE AT EXIT AND ENTRANCE RAMPS	TCP-10	6360
SPECIAL DESIGN SHEETS - BRIDGE (SEE BRIDGE DETAILED INDEX, SHEET 8001) (21)		8001-8021
TOTAL SHEETS (NOT INCLUDING BRIDGE SHEETS) (11)		

10/19/2020 11:56 AM DI.DGN

PS & E PLANS-DATE: 8-19-2020		
FMS CON. * 108397/302000		
REVISIONS		
DATE	SHEET NO.	BY
10/19/20	4	SS

REVISION	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	<b>DETAILED INDEX</b>	
	PROJ. NO.: NHPP-0020-01(259) COUNTY: WARREN	
	WORKING NUMBER	<b>DI-1</b>
DATE	FILE NAME: DI.dgn	SHEET NUMBER
DESIGN TEAM	SMITH      CHECKED      DATE	<b>2</b>



STATE	PROJECT NO.
MISS.	NHPP-0020-01(259)

GENERAL NOTES

- (1) THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
- (2) ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE **MUTCD** (LATEST EDITION).
- (3) ALL PLASTIC DRUMS SHALL HAVE A BALLASTING COLLAR MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIAL.
- (4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, PIPES, INLETS, APRONS, AND BRIDGES FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
- (5) FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED ON THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
- (6) THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE SURFACE TREATED SHOULDER THAT MIGHT OCCUR DURING CONSTRUCTION. ANY REPAIR TO SHOULDER WILL BE IN ACCORDANCE WITH SECTION 410 OF **THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION**. NO PAYMENT WILL BE MADE FOR REPAIR OF DAMAGED SHOULDER.
- (7) THE CONTRACTOR SHALL COVER OR REMOVE ANY TEMPORARY TRAFFIC CONTROL SIGNS SHOWN IN THE TRAFFIC CONTROL PLAN THAT DO NOT APPLY TO THE CURRENT PHASE.
- (8) SEE BRIDGE PLANS FOR DETAILED INDEX SHEET(S), ESTIMATED AND SUMMARY OF QUANTITY SHEETS, AND EROSION CONTROL SHEETS.
- (9) ALL ADDENDA TO THESE PLANS WILL BE POSTED TO [WWW.MDOT.MS.GOV](http://WWW.MDOT.MS.GOV) UNDER THE PROPOSAL ADDENDA COLUMN. BIDDERS ARE ADVISED THAT HARD COPIES OF ANY ADDENDA FOR THIS PROJECT WILL NOT BE MAILED. IT IS THE BIDDER'S RESPONSIBILITY TO CHECK AND SEE IF ANY ADDENDA HAVE BEEN POSTED FOR THIS PROJECT.
- (10) STORAGE OF FLAMMABLE MATERIALS WILL NOT BE ALLOWED UNDER ANY BRIDGE STRUCTURES.
- (11) ALL ITEMS OF WORK ASSOCIATED WITH THE INSTALLATION OF A CONSTRUCTION ENTRANCE SHALL BE ABSORBED IN OTHER ITEMS OF WORK.
- (12) THE CONTRACTOR SHALL ERECT AND MAINTAIN CONSTRUCTION SIGNING AND PROVIDE ALL SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY TO SAFELY MAINTAIN TRAFFIC AROUND AND THROUGH THE WORK AREAS IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, STANDARD DRAWINGS, AND THE MUTCD. THE COST OF THESE DEVICES IS TO BE INCLUDED IN THE PRICE BID FOR PAY ITEM 618-A: MAINTENANCE OF TRAFFIC UNLESS OTHERWISE SHOWN ON THE TRAFFIC CONTROL PLAN SHEETS AND THE DETAIL OF CONSTRUCTION SIGNING SHEET.

PLAN DIVISION  
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION

B:\13\2020\_9\_30\_AM\_GN.DGN

		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
		<b>GENERAL NOTES</b>	
		I-20 OVER CLEAR CREEK	
		BR. #12.0A & 12.0B	
		PROJ. NO.: NHPP-0020-01(259)	
		COUNTY: WARREN	
	REVISION	BY	
	DATE		
		FILE NAME: GN.dgn	
		DESIGN TEAM	SMITH
		CHECKED	DATE
		WORKING NUMBER	
		<b>GN-1</b>	
		SHEET NUMBER	
		<b>3</b>	




**1st O.REV.**

STATE	PROJECT NO.
MISS	NHPP-0020-01(259)

**SUMMARY OF QUANTITIES (SHEET 1)**

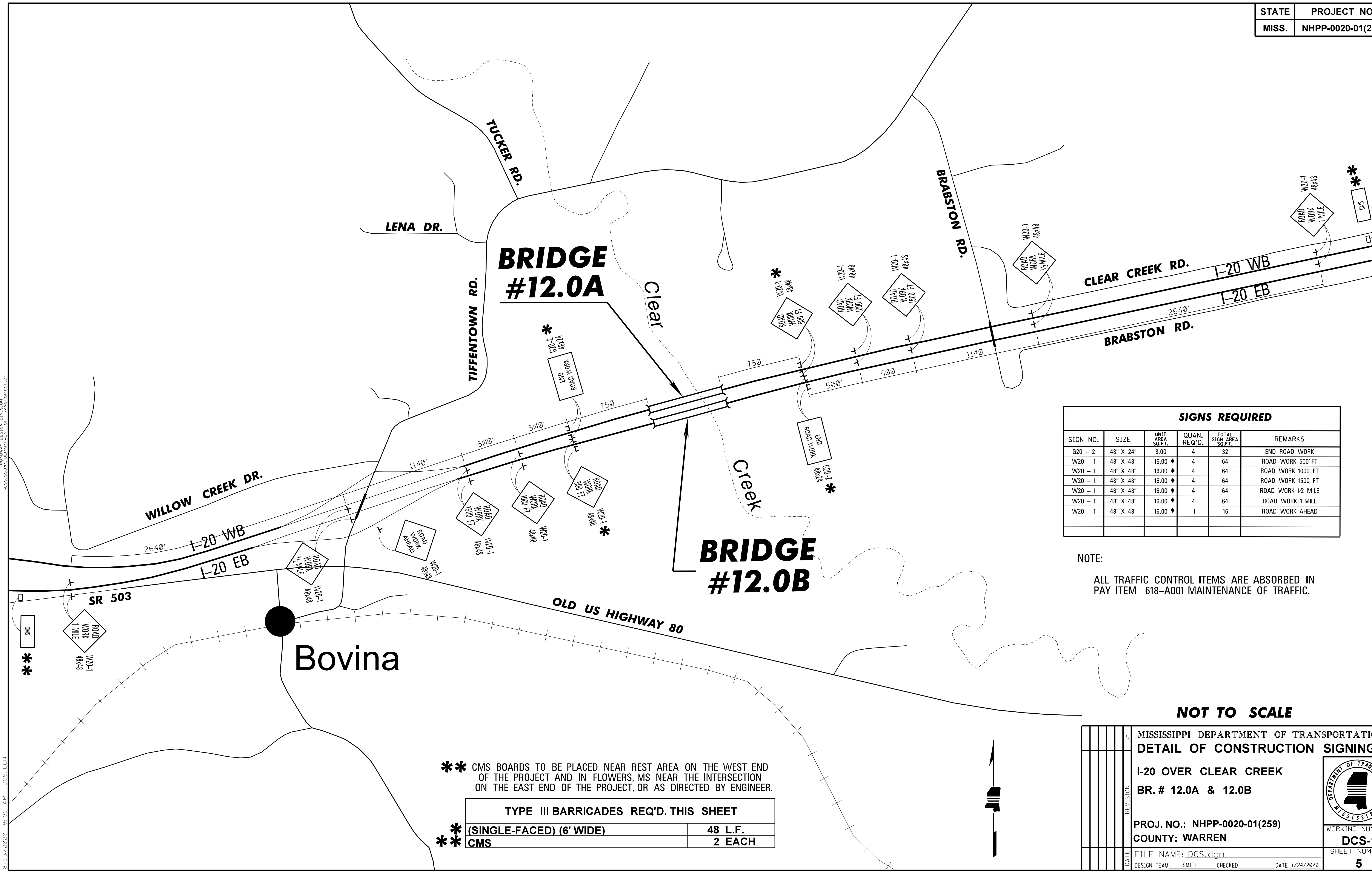
PAY ITEM NO.	PAY ITEM	UNIT	WARREN : 108397-302000		
			Prelim	Final	
202-B039	Removal of Cable Barrier	LF	1,000		⚠
202-B040	Removal of Cable Barrier Terminal Section	EA	2		⚠
203-G002	Excess Excavation, LVM, AH	CY	500		
225-A001	Grassing	ACRE	1		
225-B001	Agricultural Limestone	TON	2		
225-C001	Mulch, Vegetative Mulch	TON	2		
234-C001	Super Silt Fence	LF	1,100		
234-F001	Turbidity Barrier	LF	550		
237-A002	Wattles, 20"	LF	1,100		
610-A001	Cable Barrier	LF	1,000		⚠
610-B001	Cable Barrier Terminal Section	EA	2		⚠
907-610-H1001	Re-tensioning	EA	2		⚠
618-A001	Maintenance of Traffic	LS	1		①
618-B001	Additional Construction Signs	SF	1		
620-A001	Mobilization	LS	1		
699-B001	Bridge Construction Stakes	LS	1		

① ALL TRAFFIC CONTROL ITEMS ARE ABSORBED IN MAINTENANCE OF TRAFFIC.

ADDED PAY ITEMS.	SS	By	<b>MISSISSIPPI DEPARTMENT OF TRANSPORTATION</b>			
	Revision		<b>SUMMARY OF QUANTITIES</b>			
Date	10/19/2020	Design Team	SMITH	Checked	Date	 Working Number <b>SQ-1</b> Sheet Number <b>4</b>
	FILENAME: SQ-WARREN		COUNTY: WARREN			



STATE	PROJECT NO.
MISS.	NHPP-0020-01(259)




SIGNS REQUIRED					
SIGN NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS
G20 - 2	48" X 24"	8.00	4	32	END ROAD WORK
W20 - 1	48" X 48"	16.00	4	64	ROAD WORK 500' FT
W20 - 1	48" X 48"	16.00	4	64	ROAD WORK 1000 FT
W20 - 1	48" X 48"	16.00	4	64	ROAD WORK 1500 FT
W20 - 1	48" X 48"	16.00	4	64	ROAD WORK 12 MILE
W20 - 1	48" X 48"	16.00	4	64	ROAD WORK 1 MILE
W20 - 1	48" X 48"	16.00	1	16	ROAD WORK AHEAD

NOTE:  
ALL TRAFFIC CONTROL ITEMS ARE ABSORBED IN PAY ITEM 618-A001 MAINTENANCE OF TRAFFIC.

**NOT TO SCALE**

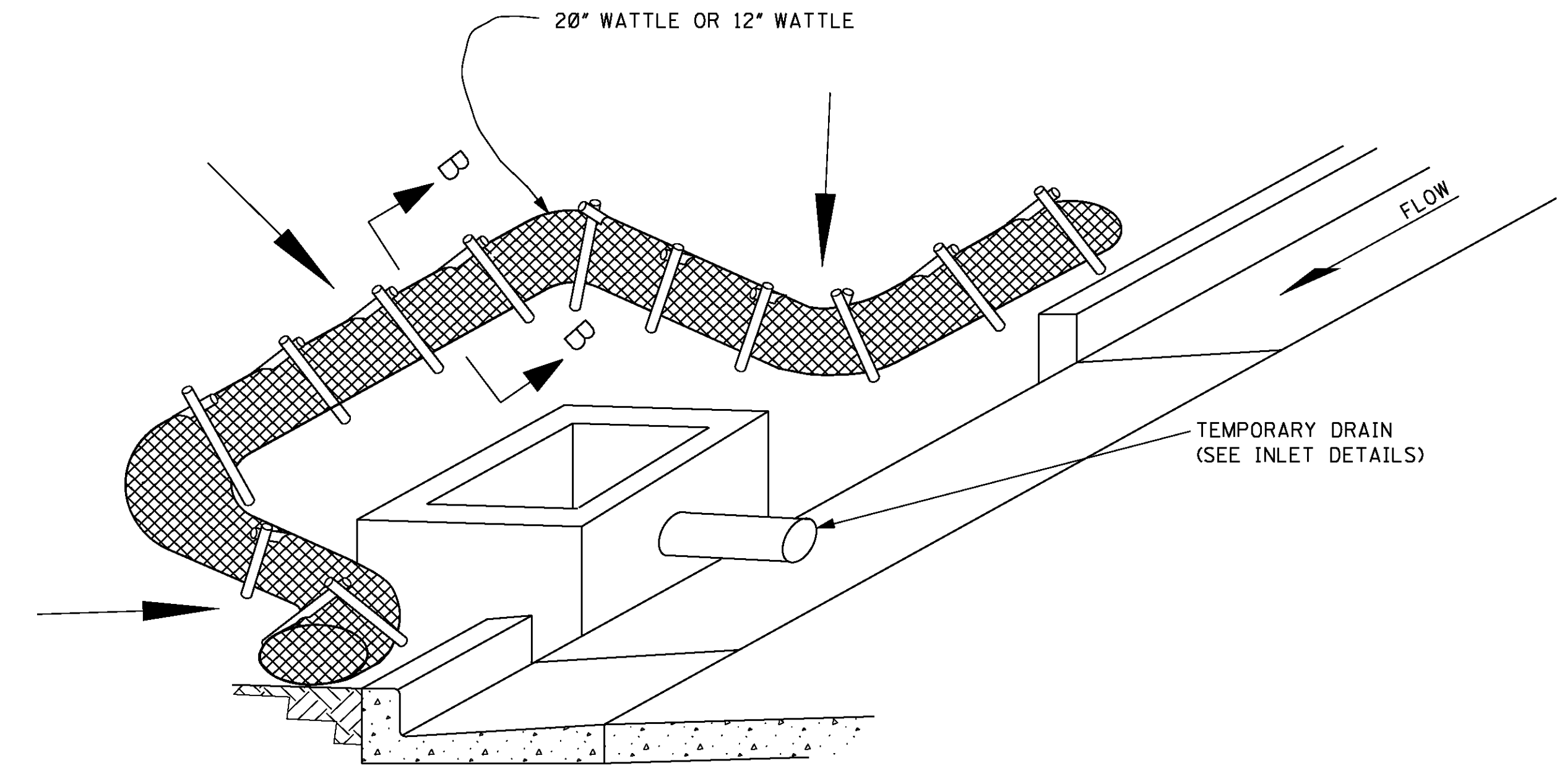
\*\* CMS BOARDS TO BE PLACED NEAR REST AREA ON THE WEST END OF THE PROJECT AND IN FLOWERS, MS NEAR THE INTERSECTION ON THE EAST END OF THE PROJECT, OR AS DIRECTED BY ENGINEER.

TYPE III BARRICADES REQ'D. THIS SHEET	
** (SINGLE-FACED) (6' WIDE)	48 L.F.
** CMS	2 EACH

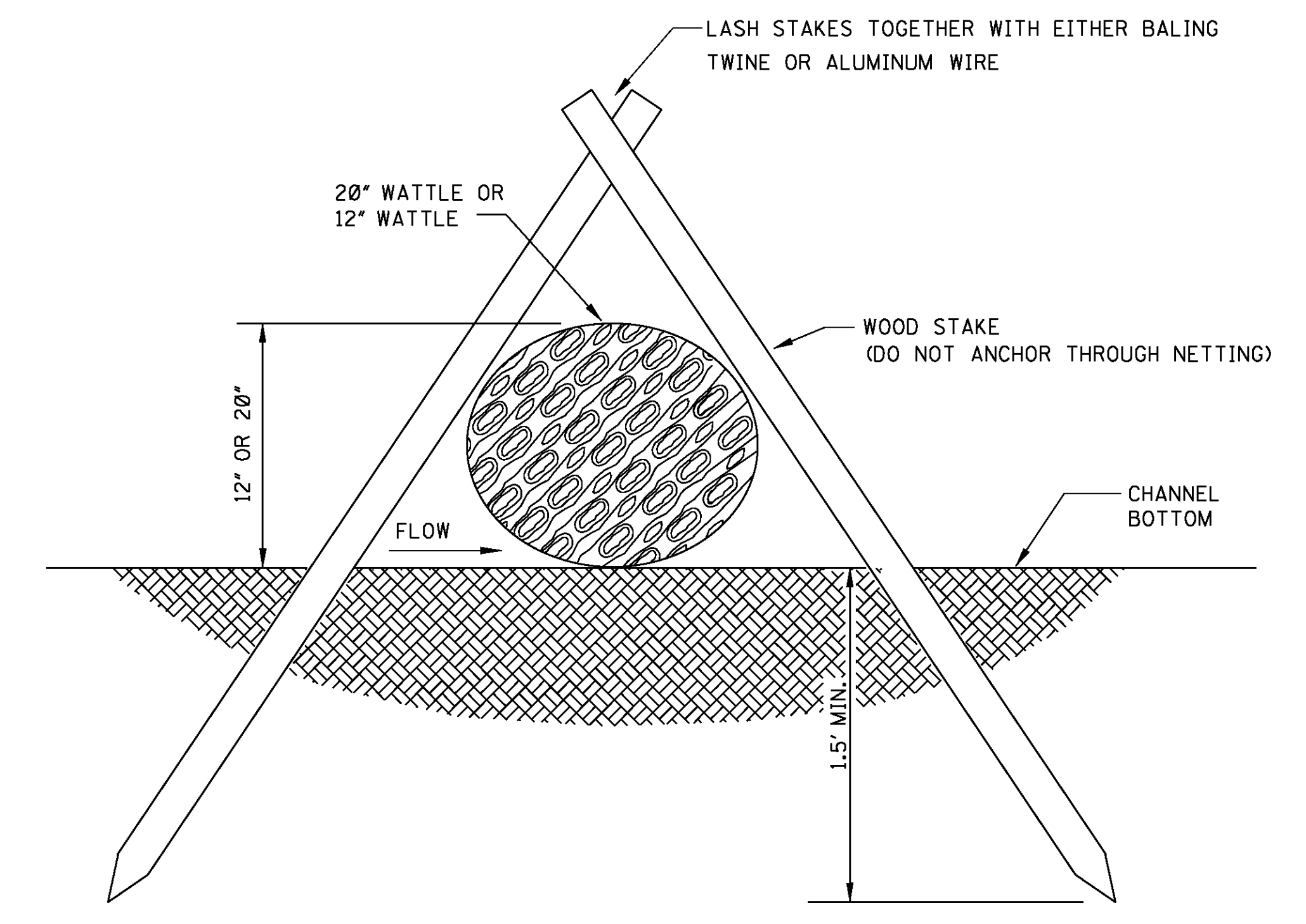
MISSISSIPPI DEPARTMENT OF TRANSPORTATION <b>DETAIL OF CONSTRUCTION SIGNING</b>		
I-20 OVER CLEAR CREEK BR. # 12.0A & 12.0B		
PROJ. NO.: NHPP-0020-01(259) COUNTY: WARREN		WORKING NUMBER <b>DCS-1</b>
FILE NAME: DCS.dgn	DATE	SHEET NUMBER <b>5</b>
DESIGN TEAM SMITH	CHECKED	DATE 7/24/2020

B:\13\2020\ 9:31 AM DCS.dgn

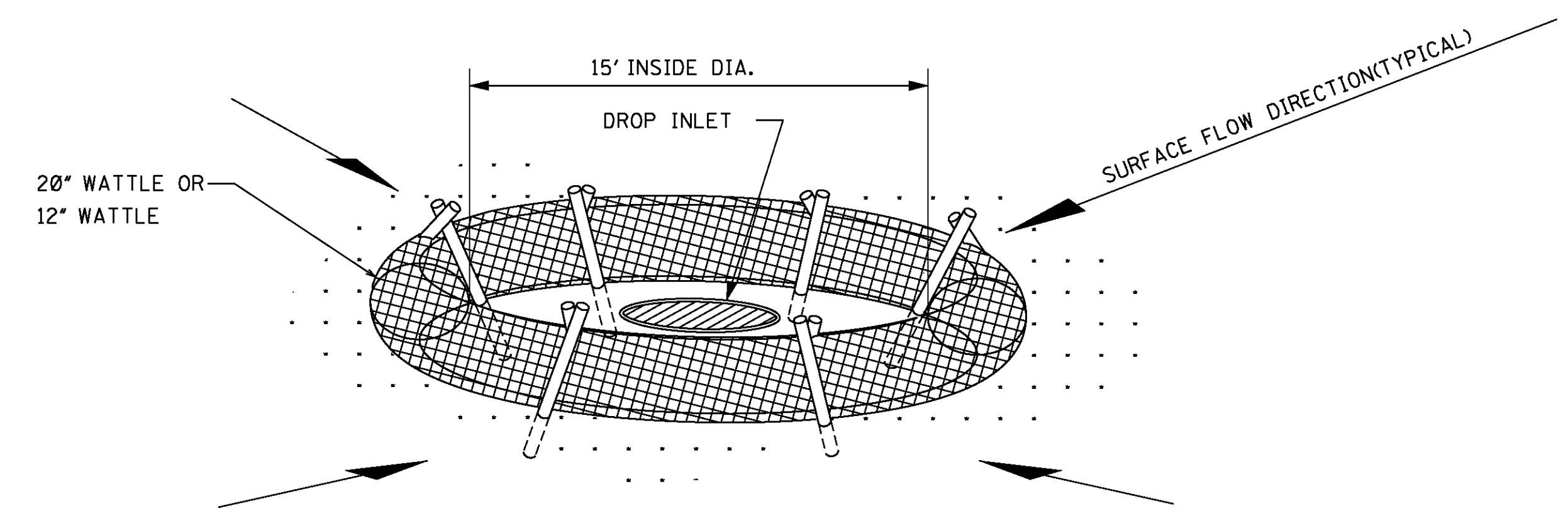
NOTE: SILT FENCE OR SANDBAGS MAY ALSO BE USED FOR THIS APPLICATION.  
HAY BALES NOT ACCEPTABLE DURING THIS STAGE.



**CURB INLET PROTECTION (STAGE 2)**  
**SINGLE OR DOUBLE WING INLET**




**SECTION B-B**

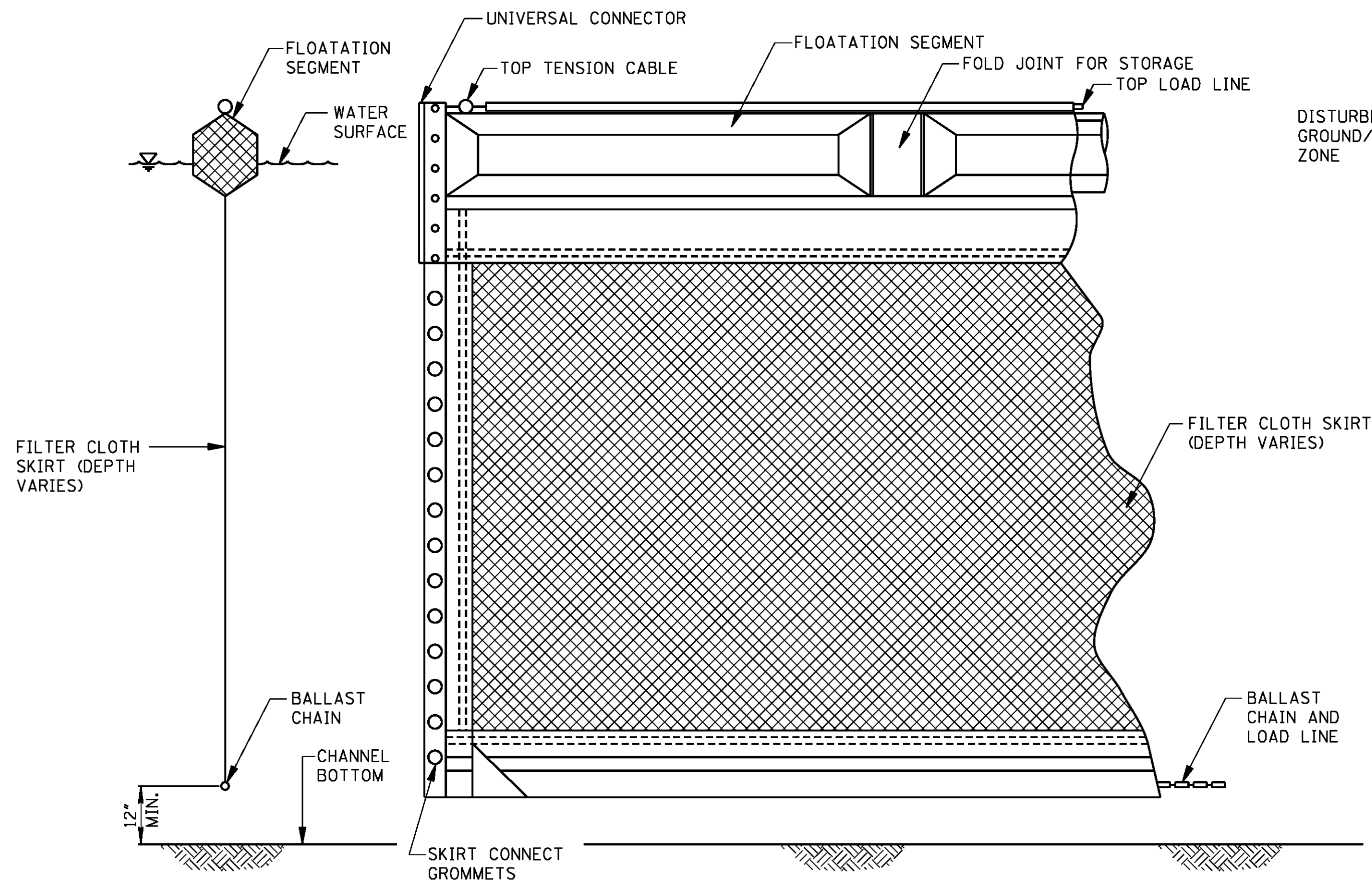


**DROP INLET PROTECTION**

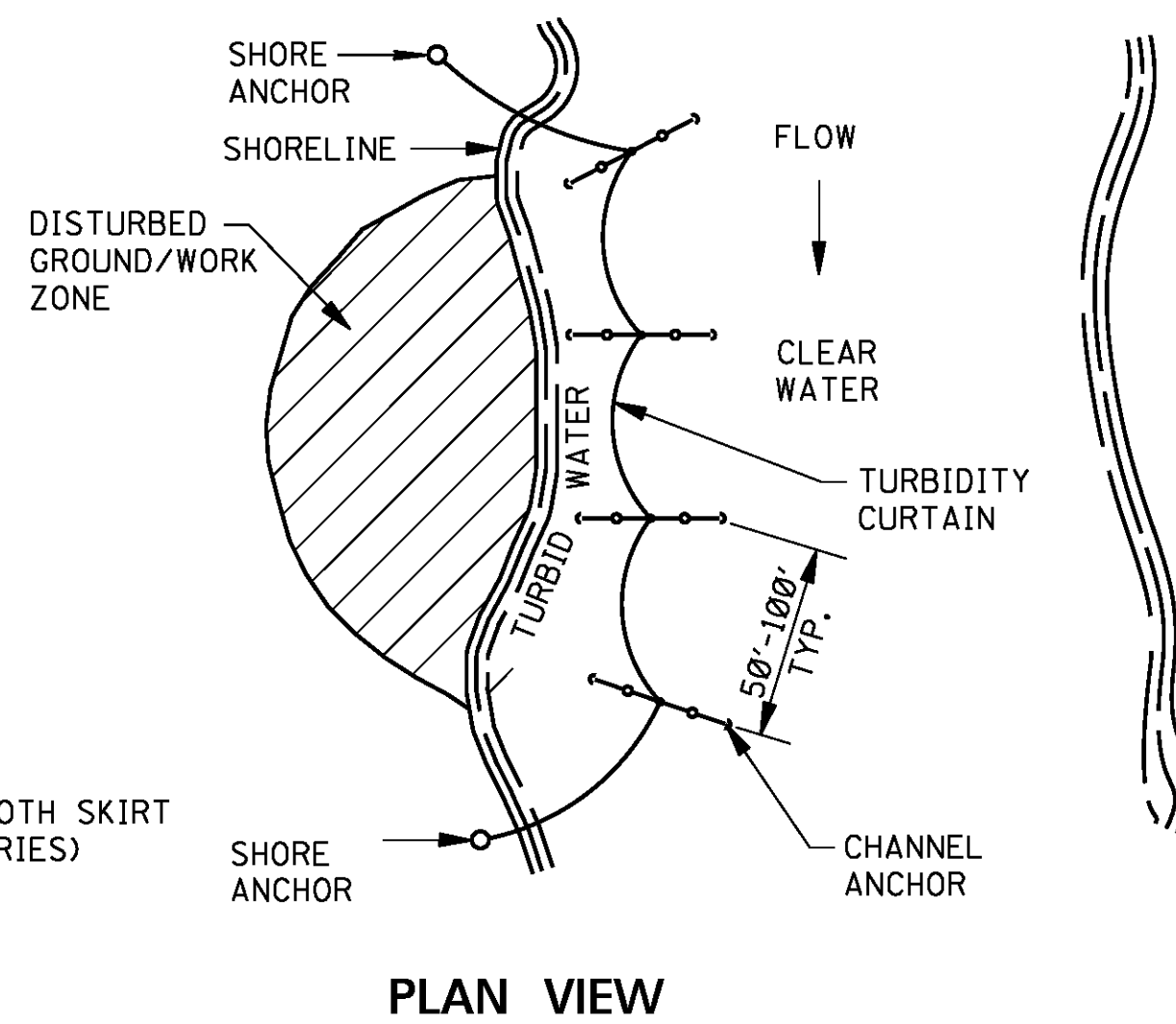
- NOTES:
- ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
  - OVERLAP ENDS OF WATTLES PER MANUFACTURER'S RECOMMENDATIONS (1' MIN., 3' MAX.)
  - TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
  - IN THE EVENT WATTLES CANNOT BE SECURED IN PLACE USING WOOD STAKES, SANDBAGS MAY BE USED IN LIEU OF WOOD STAKES IN ORDER TO SECURE WATTLES IN PLACE. COST OF SANDBAGS USED IN THIS APPLICATION SHALL BE INCLUDED IN OTHER ITEMS BID.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		<p><b>INLET PROTECTION DETAILS OF WATTLES</b></p> 	
DATE			
ISSUE DATE:		AUGUST 01, 2017	
WORKING NUMBER		ECD-13	
SHEET NUMBER		6113	

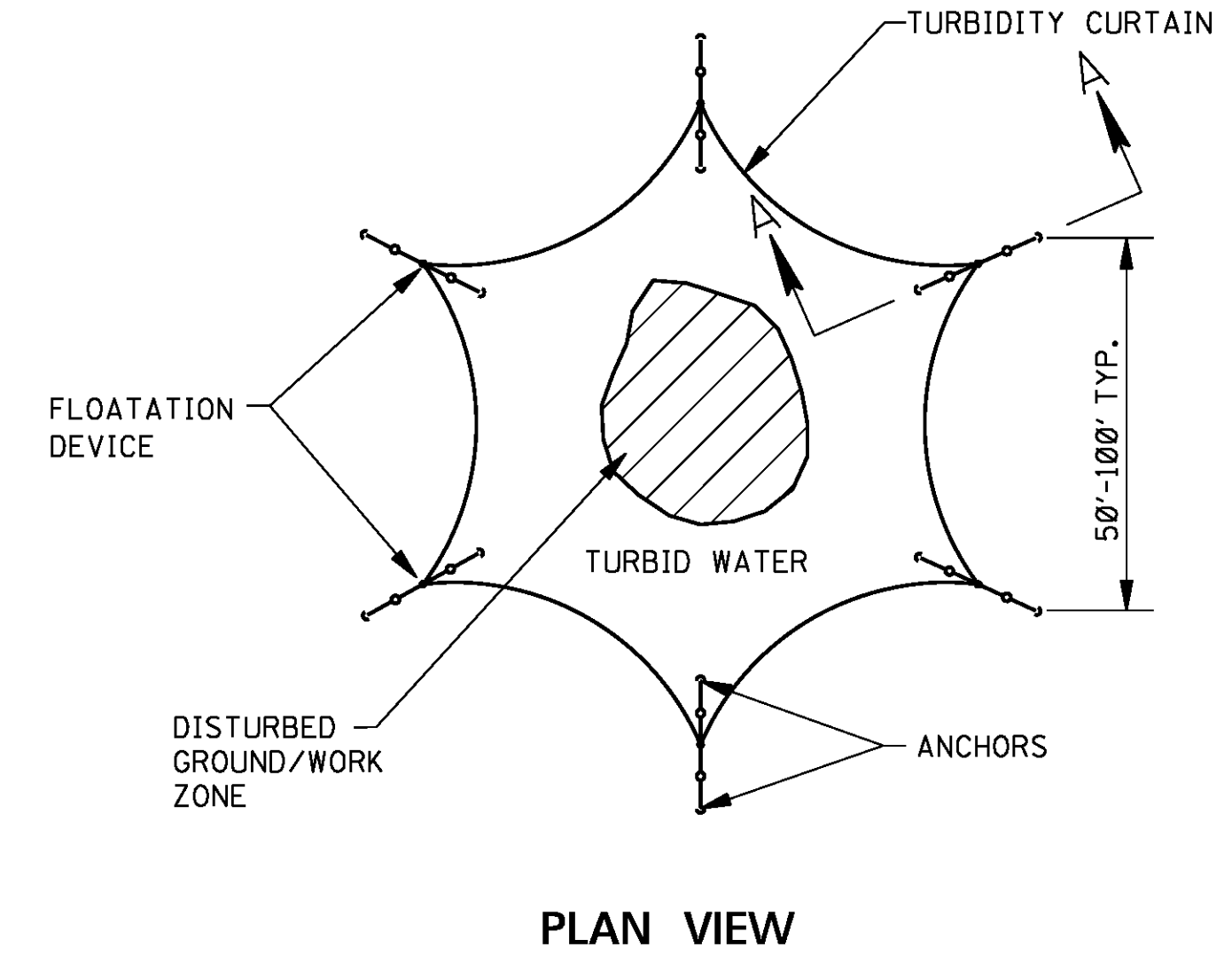
**FLOATING TURBIDITY CURTAIN**



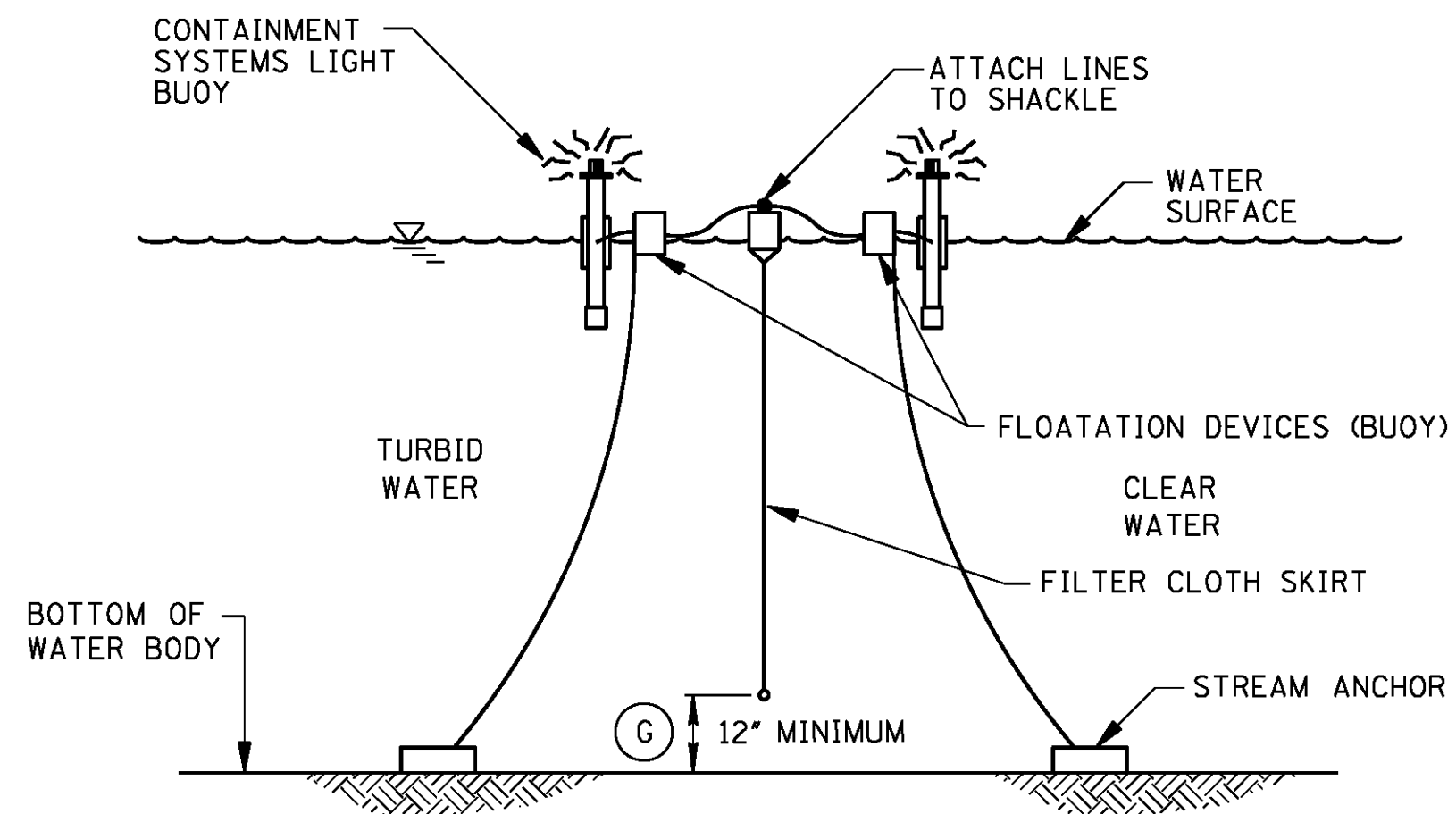
**TYPICAL ANCHORING PLAN FOR SHORELINE/RIVER EDGE WORK**



**TYPICAL ANCHORING PLAN FOR MID CHANNEL WORK (BRIDGE PIER, CAISSON, ETC.)**



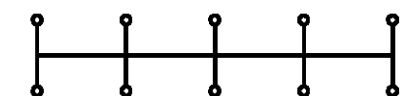
**TYPICAL ANCHORING SECTION**



**SECTION A-A**

AUTOMATIC FLASHING LIGHT BUOY (ON AT DUSK-OFF AT DAWN) 100' ON CENTER SHALL BE USED IN NAVIGABLE CHANNELS ONLY

EROSION CONTROL PLAN LEGEND:



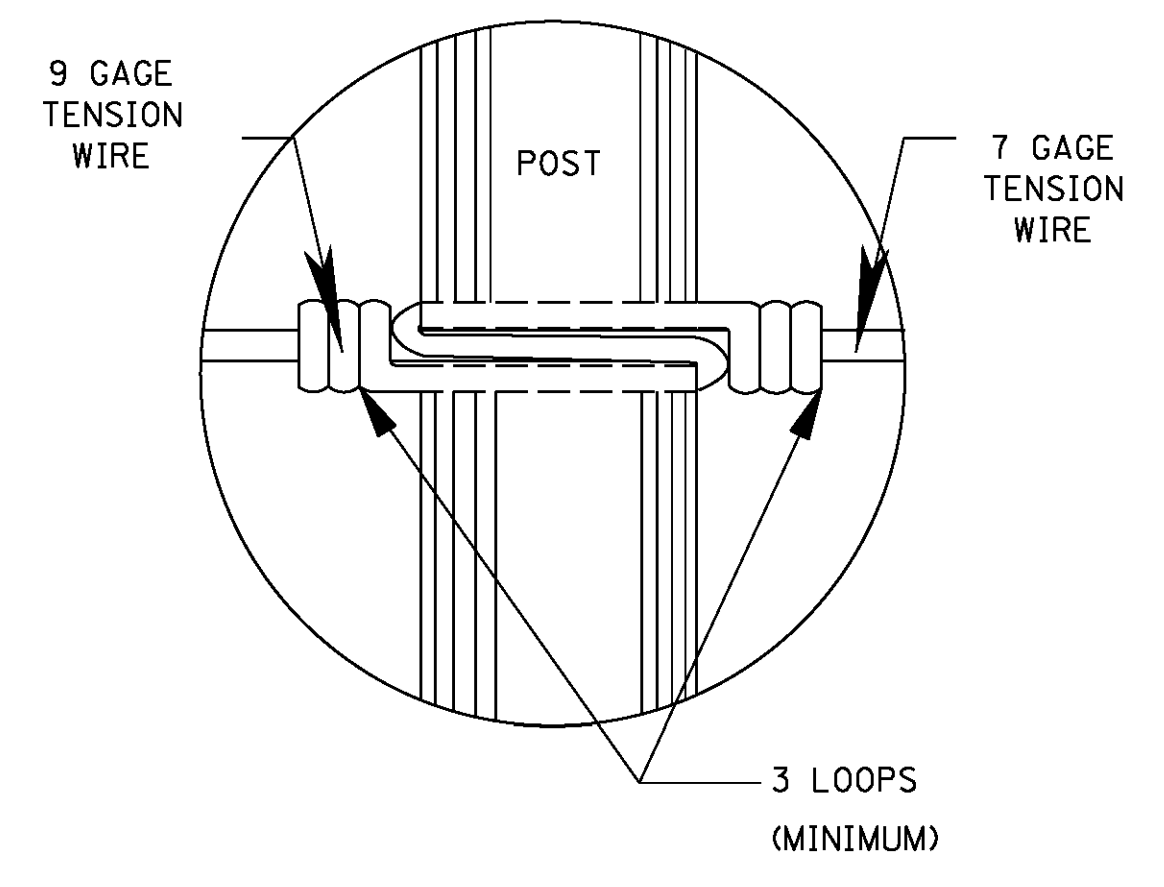
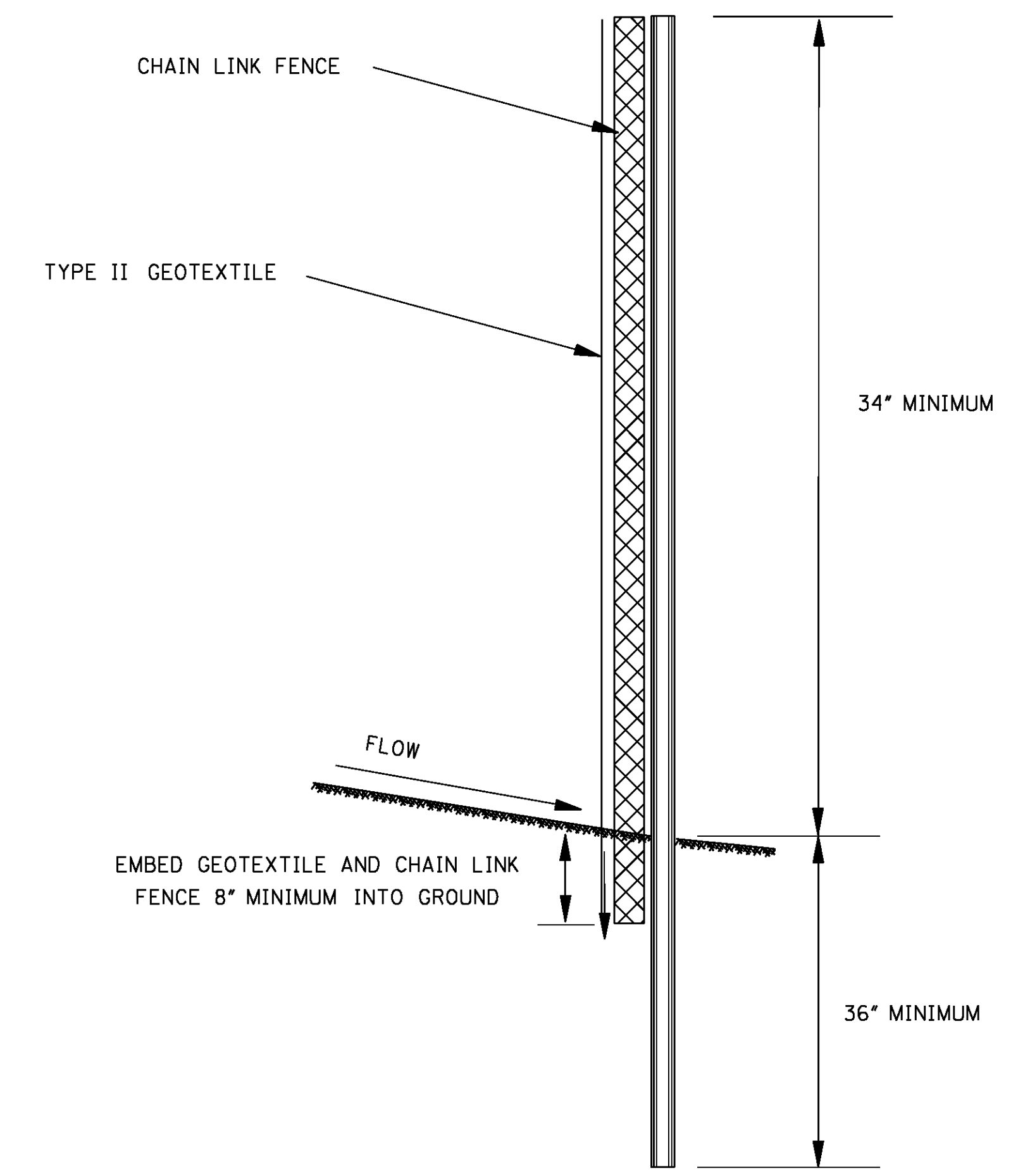
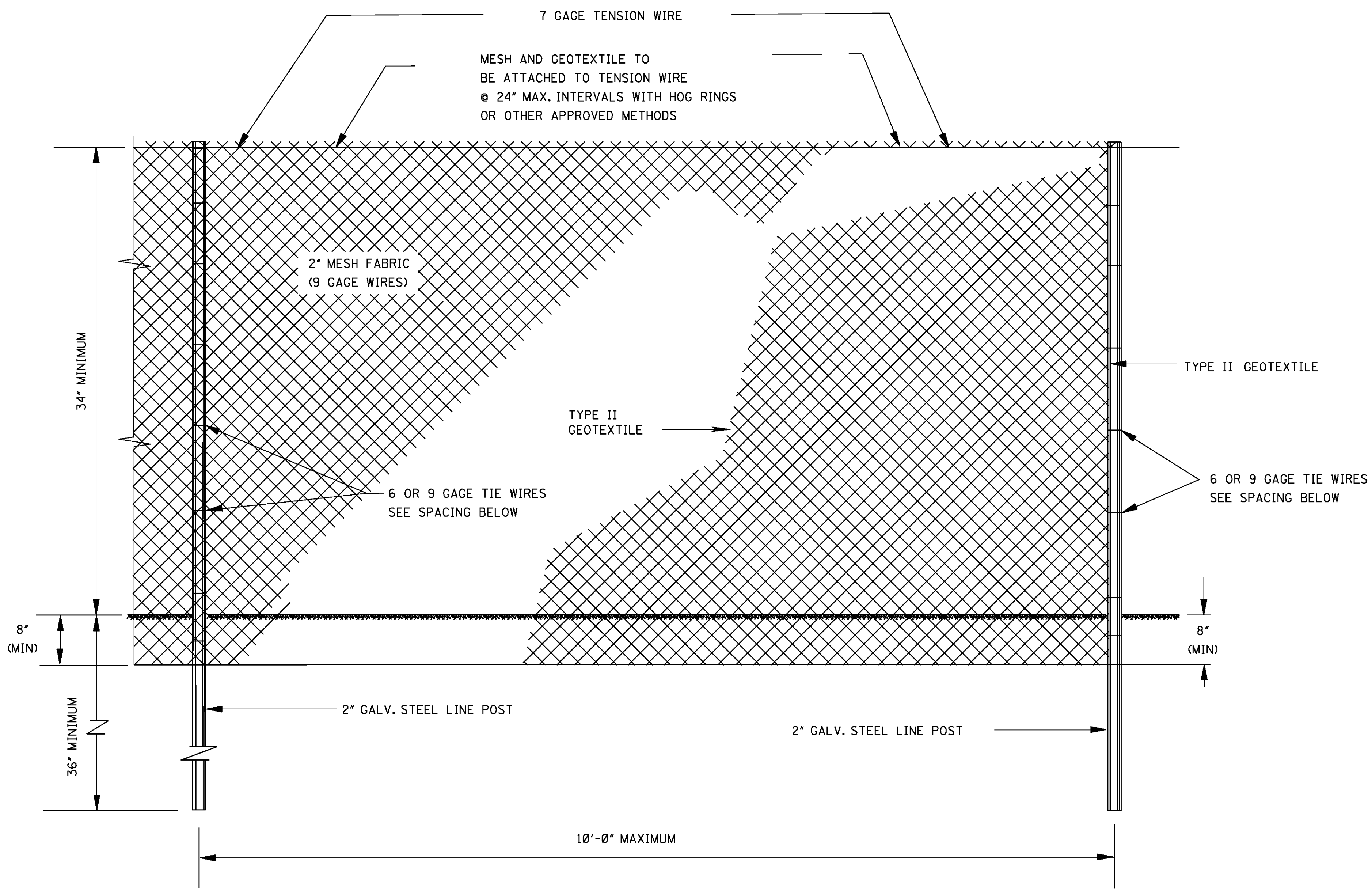
FLOATING TURBIDITY CURTAIN

**GENERAL NOTES:**

- FLOATING TURBIDITY CURTAINS (ALSO KNOWN AS TURBIDITY BARRIERS OR SILT CURTAINS) CREATE A BARRIER TO PREVENT TURBID WATER FROM ENTERING CLEAR WATER. FLOATING TURBIDITY CURTAINS SHOULD BE USED TO ISOLATE ACTIVE CONSTRUCTION AREAS WITHIN OR ADJACENT TO A BODY OF WATER TO MINIMIZE THE MIGRATION OF SILT LADEN WATER OUT OF THE CONSTRUCTION ZONE.
- TURBIDITY CURTAINS SHALL NOT BE INSTALLED PERPENDICULAR ACROSS THE MAIN FLOW OF A SIGNIFICANT BODY OF MOVING WATER.
- FLOATING TURBIDITY CURTAINS SHOULD NOT BE USED WHERE THE ANTICIPATED FLOW VELOCITIES WILL EXCEED 5 FT/SEC.
- TURBIDITY CURTAINS SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGE SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE. CURTAINS SHOULD BE INSTALLED AS CLOSE TO PROJECT SITE AS POSSIBLE. BARRIERS SHOULD BE A BRIGHT COLOR (YELLOW OR "INTERNATIONAL" ORANGE ARE RECOMMENDED) THAT WILL ATTRACT THE ATTENTION OF NEARBY BOATERS.
- SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES AND MANUFACTURER'S RECOMMENDATIONS.
- IN SHALLOW WATER (2 FEET OF DEPTH OR LESS) A TURBIDITY CURTAIN MAY BE INSTALLED ON STAKES DRIVEN INTO THE BED OF THE WATER BODY.
- FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE. FABRIC SHALL BE SEAMED TOGETHER IN A MANNER THAT RETAINS THE OVERALL TENSILE STRENGTH.
- DESIGN OF CURTAIN AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FILTER CLOTH SKIRT SHOULD BE ABLE TO WITHSTAND THE FORCES IMPARTED ON IT DUE TO THE EXPECTED WIND VELOCITY OR STREAM VELOCITY. FABRIC SHALL BE MADE OF A NON-DETERIORATING MATERIAL, SUCH AS PLASTIC OR NYLON, WHICH WILL ALLOW WATER TO PASS THROUGH WHILE STILL RETAINING SEDIMENT.
- THE TURBIDITY CURTAIN AND ADJACENT WORK AREAS SHALL NOT BE DISTURBED 12 HOURS PRIOR TO REMOVAL FROM THE WATER BODY. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE CURTAIN AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY. DURING REMOVAL, EXTREME CARE SHOULD BE TAKEN NOT TO DISTURB ANY SEDIMENT DEPOSITS.
- MAINTAIN 12" MINIMUM GAP BETWEEN SKIRT BOTTOM AND CHANNEL BOTTOM TO PREVENT ACCUMULATED SEDIMENT FROM PULLING TOP OF CURTAIN BELOW WATER SURFACE.
- IN WIND OR WAVE ACTION SITUATIONS, THE MAXIMUM DEPTH OF THE CURTAIN SHALL BE 12 FEET.
- CONCENTRATED FLOWS SHALL NOT DISCHARGE BEYOND FLOATING TURBIDITY CURTAIN. CURTAINS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
- WHEN INSTALLED IN A NAVIGABLE WATERWAY, BUOYS SHOULD BE LIT ACCORDING TO REGULATORY AGENCY STANDARDS.
- WHEN ESTIMATING THE LENGTH OF THE TURBIDITY CURTAIN, ALLOW 10 TO 20 PERCENT VARIANCE IN STRAIGHT LINE MEASUREMENT.
- PAYMENT FOR FLOATING TURBIDITY CURTAIN SHALL INCLUDE ALL MATERIAL AND ALL LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TURBIDITY CURTAIN.
- ONLY FLOATING TURBIDITY CURTAINS LISTED ON THE APPROVED PRODUCTS LIST MAY BE USED.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		<p><b>FLOATING TURBIDITY CURTAIN</b></p>	
DATE			
ISSUE DATE:		AUGUST 01, 2017	
WORKING NUMBER		ECD-20	
SHEET NUMBER		6120	






TENSION WIRE TIE DETAILS

6 OR 9 GAGE TIE WIRE SPACING	
TOTAL TEST LOAD (lbs)	TIE WIRE SPACING (C-C)
518	12"
475-517	11"
430-474	10"
387-429	9"
344-386	8"
301-343	7"
258-300	6"

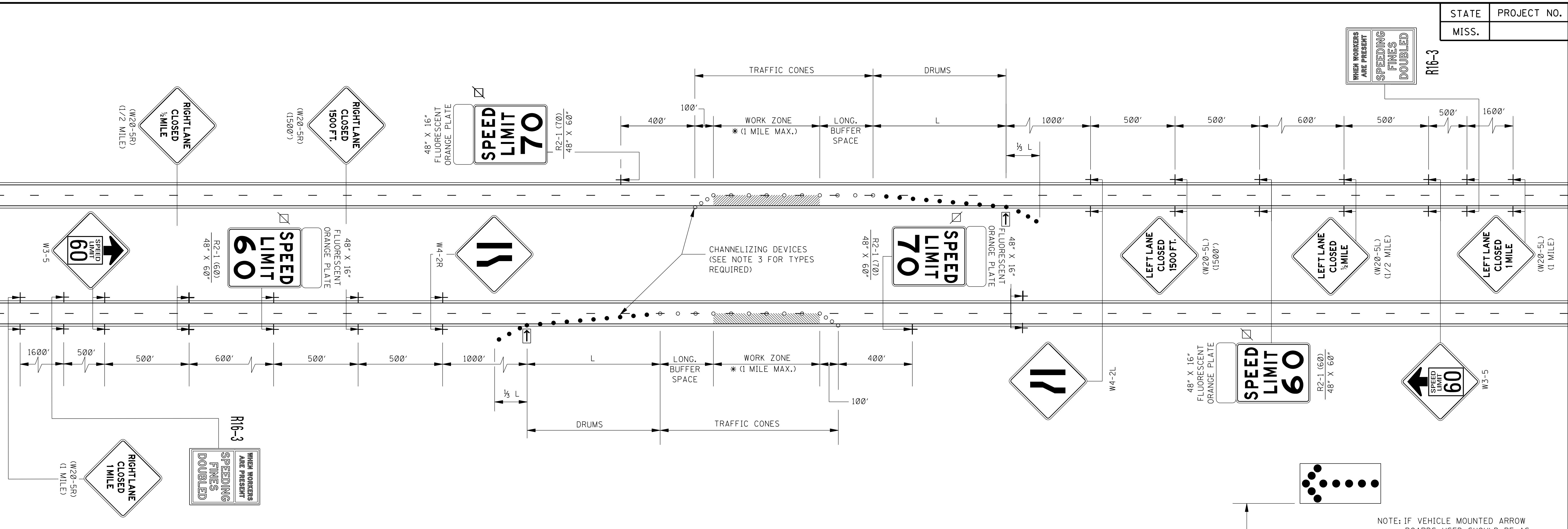
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>SUPER SILT FENCE</b>	
BY	
REVISION	
DATE	ISSUE DATE: AUGUST 01, 2017



WORKING NUMBER  
SSF-1

SHEET NUMBER  
6130





GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

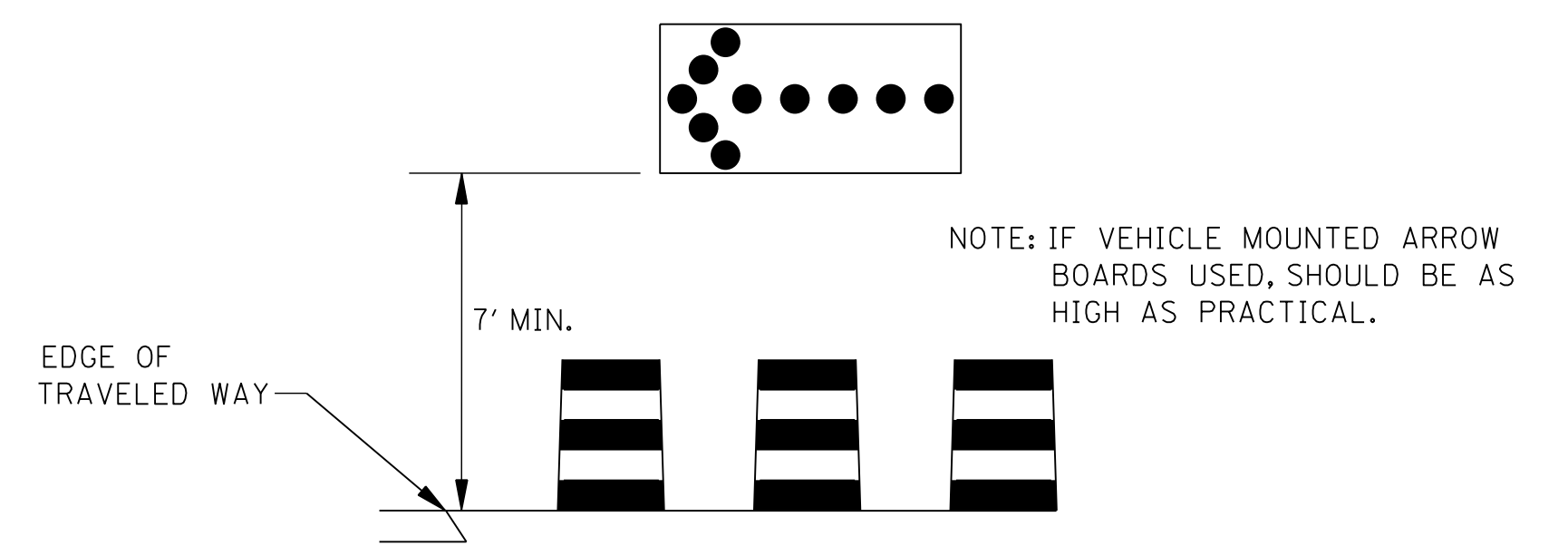
POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		LONGITUDINAL BUFFER SPACE (ft)	TAPER RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

+ NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:  
 $L = WS$  FOR SPEEDS OF 45 mph OR GREATER  
 $L = WS^2/60$  FOR SPEEDS OF 40 mph OR LESS  
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET  
 W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET  
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

++ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.


- CHANNELIZING DEVICE TYPES FOR:
  - APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
  - ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM)
  - EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)
- WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.
- FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING AND REGULATORY SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
- DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON THE FACE OF SIGN.
- ADDITIONAL REDUCED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
- THIS TRAFFIC CONTROL PLAN, WITH SPEED ZONE, MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
- LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.
- A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS AND "REDUCED SPEED AHEAD" SIGNS REQUIRED FOR LANE CLOSURE.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

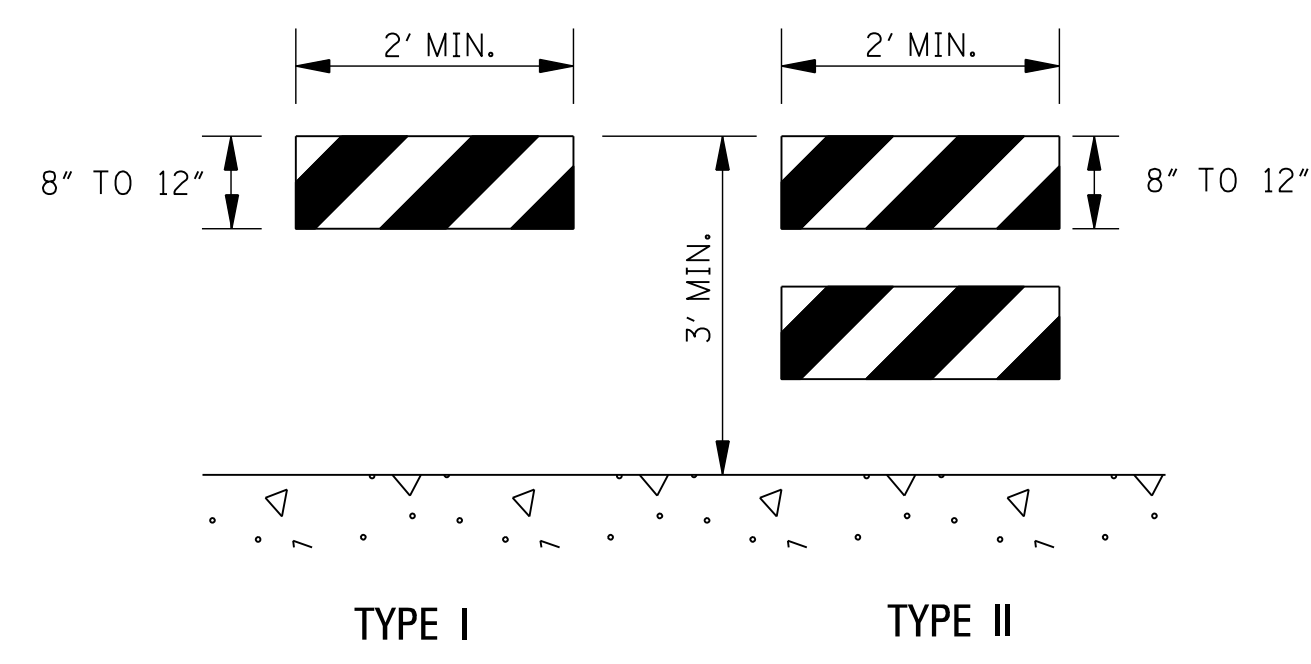


LEGEND

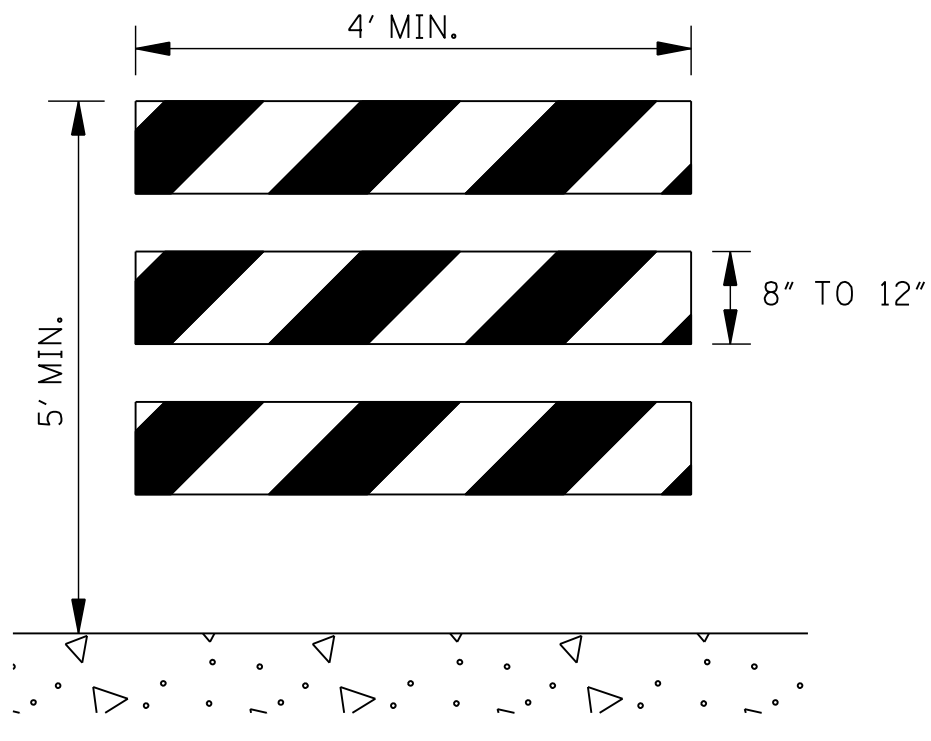
- \* OR AS SHOWN ELSEWHERE ON THE PLANS.
- FLASHING ARROW PANEL (TYPE "C")
- BLACK LEGEND AND BORDER ON WHITE BACKGROUND
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- TRAFFIC CONES (28" HEIGHT)

BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
REVISION	STANDARD PLAN <b>TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)</b>
DATE	ISSUE DATE: AUGUST 01, 2017

  
 WORKING NUMBER TCP-5  
 SHEET NUMBER 6355



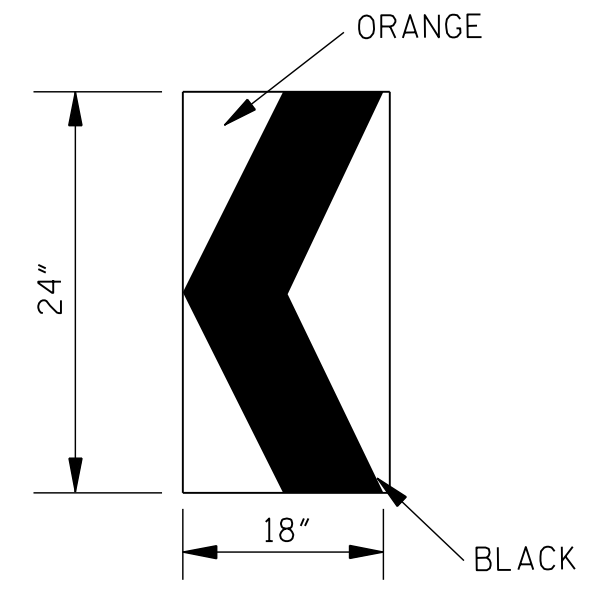
TYPE I                      TYPE II



TYPE III

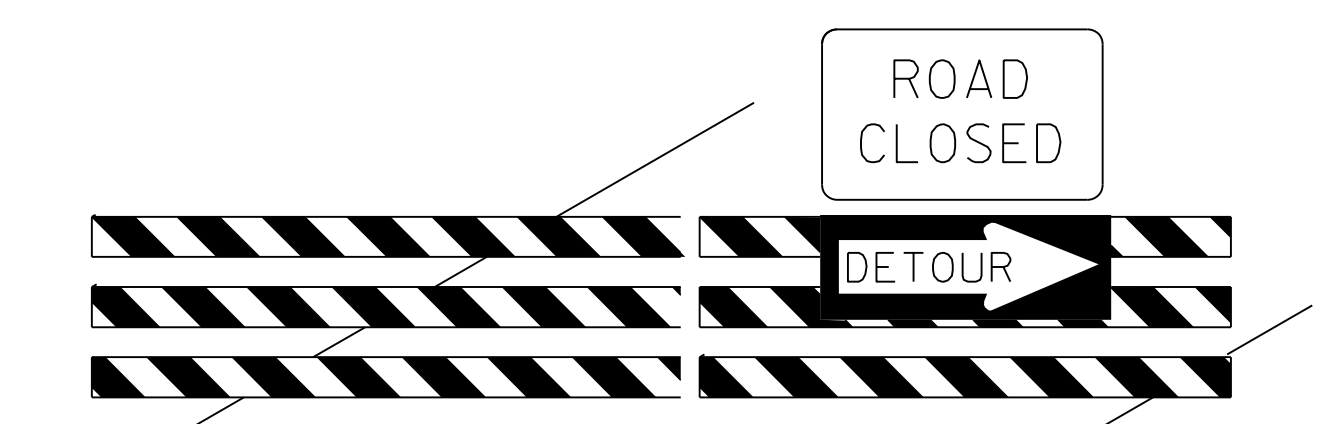
**STANDARD BARRICADES**

1. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
2. RAIL STRIPE SHOULD BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
3. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
4. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.
5. BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WORK ZONE DEVICES WHICH REQUIRE CRASHWORTHINESS ACCEPTANCE LETTERS. TO DATE, 2-IN. THICK TIMBER RAILS HAVE NOT BEEN SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATEGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE:  
[http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/cat2.cfm](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/cat2.cfm)



**CHEVRON SIGN  
DETAIL**

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHOULD BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.

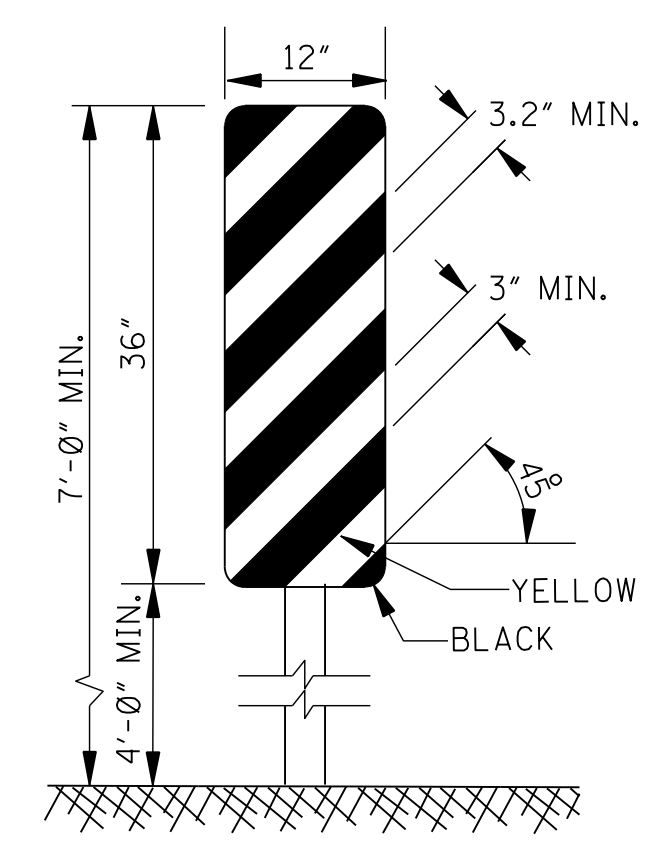


**BARRICADE CLOSING A ROAD**

**BARRICADE CHARACTERISTICS**

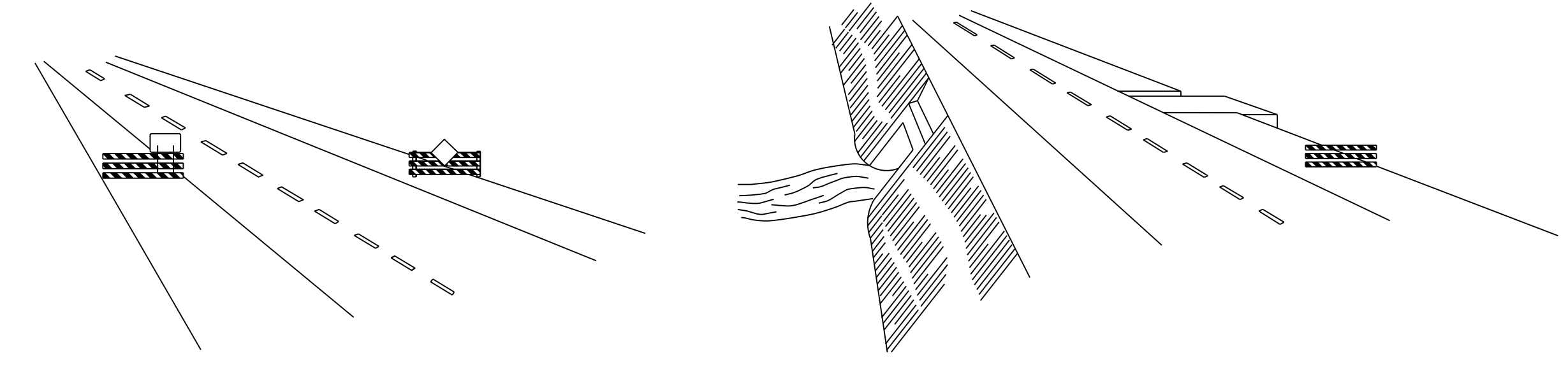
	I	II	III
WIDTH OF RAIL **	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL **	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS

- \* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
- \*\* 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in<sup>2</sup> OF REFLECTIVE AREA FACING TRAFFIC.



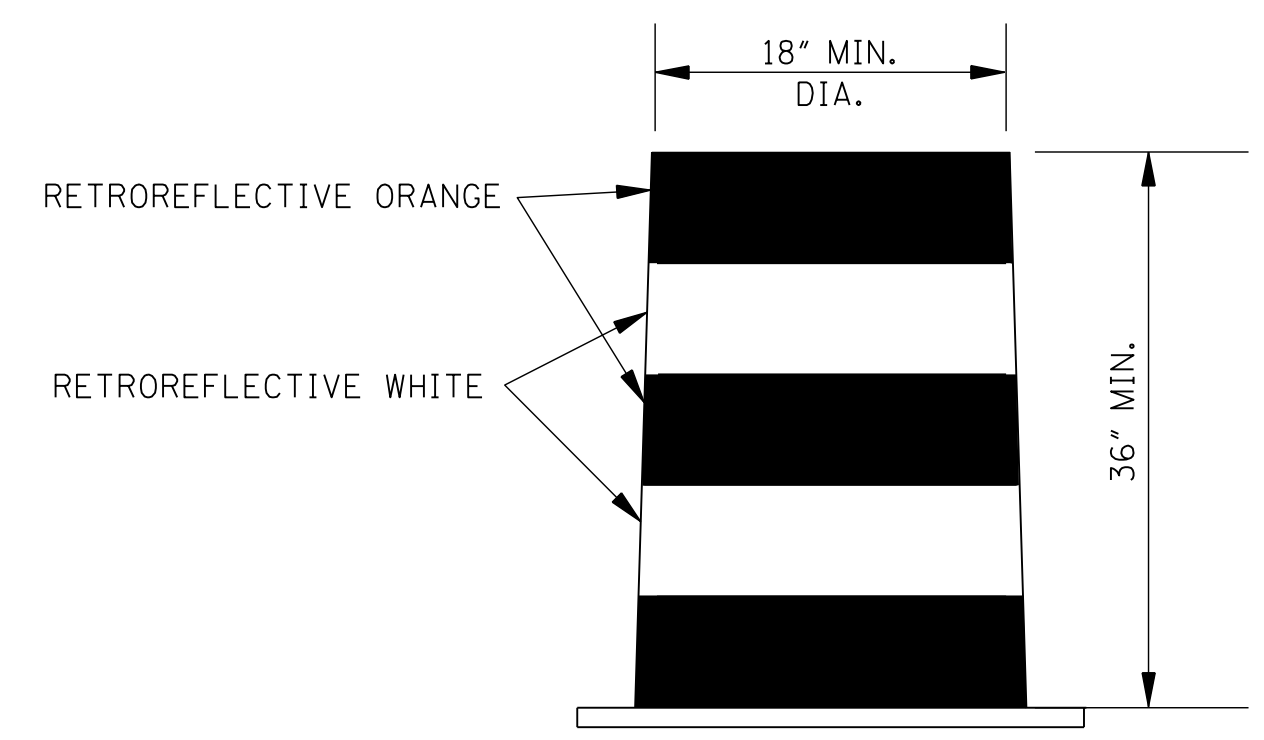
**TYPE 3 OBJECT MARKER  
(OM-3R)**

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.



**WING BARRICADES**

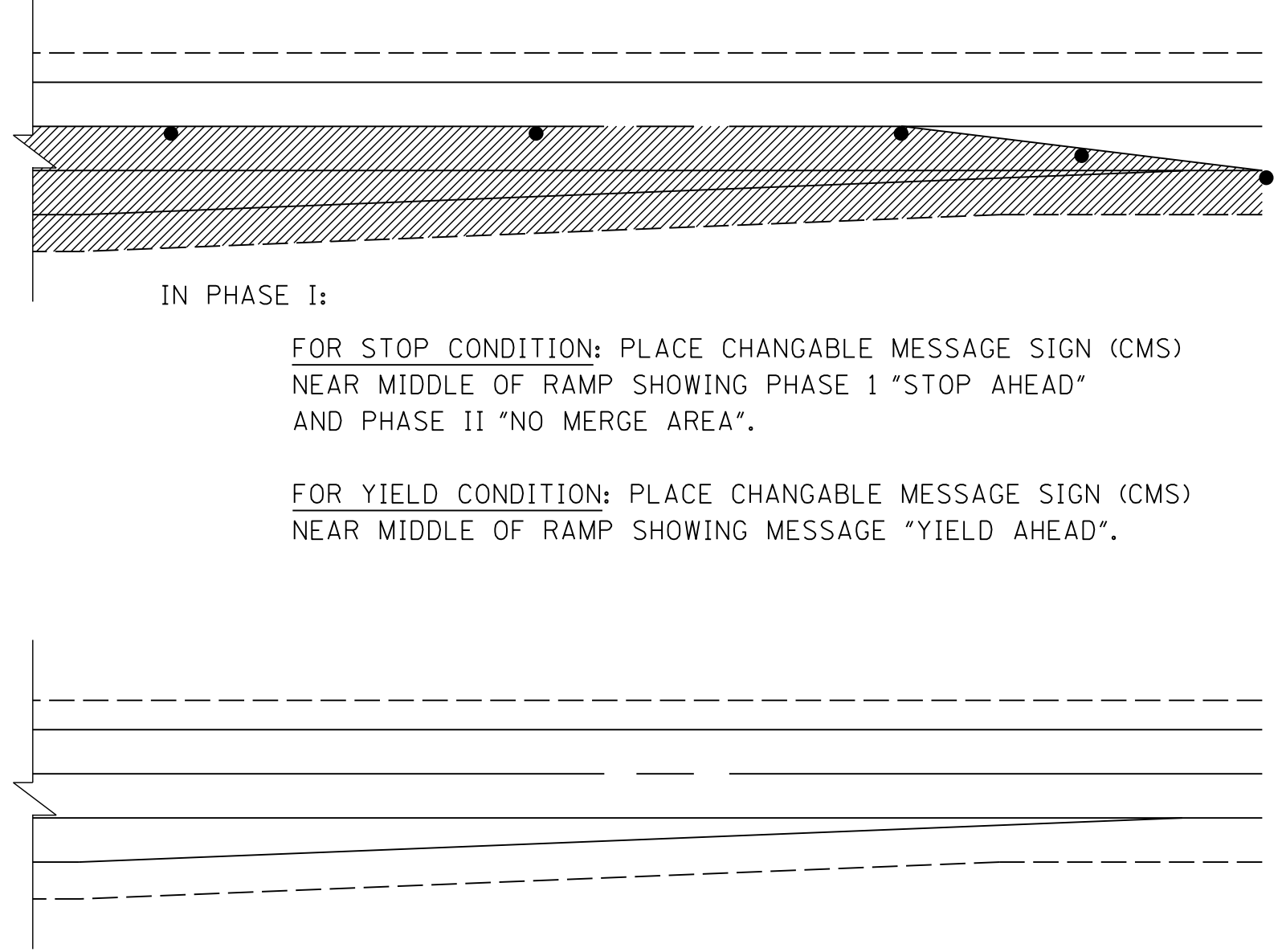
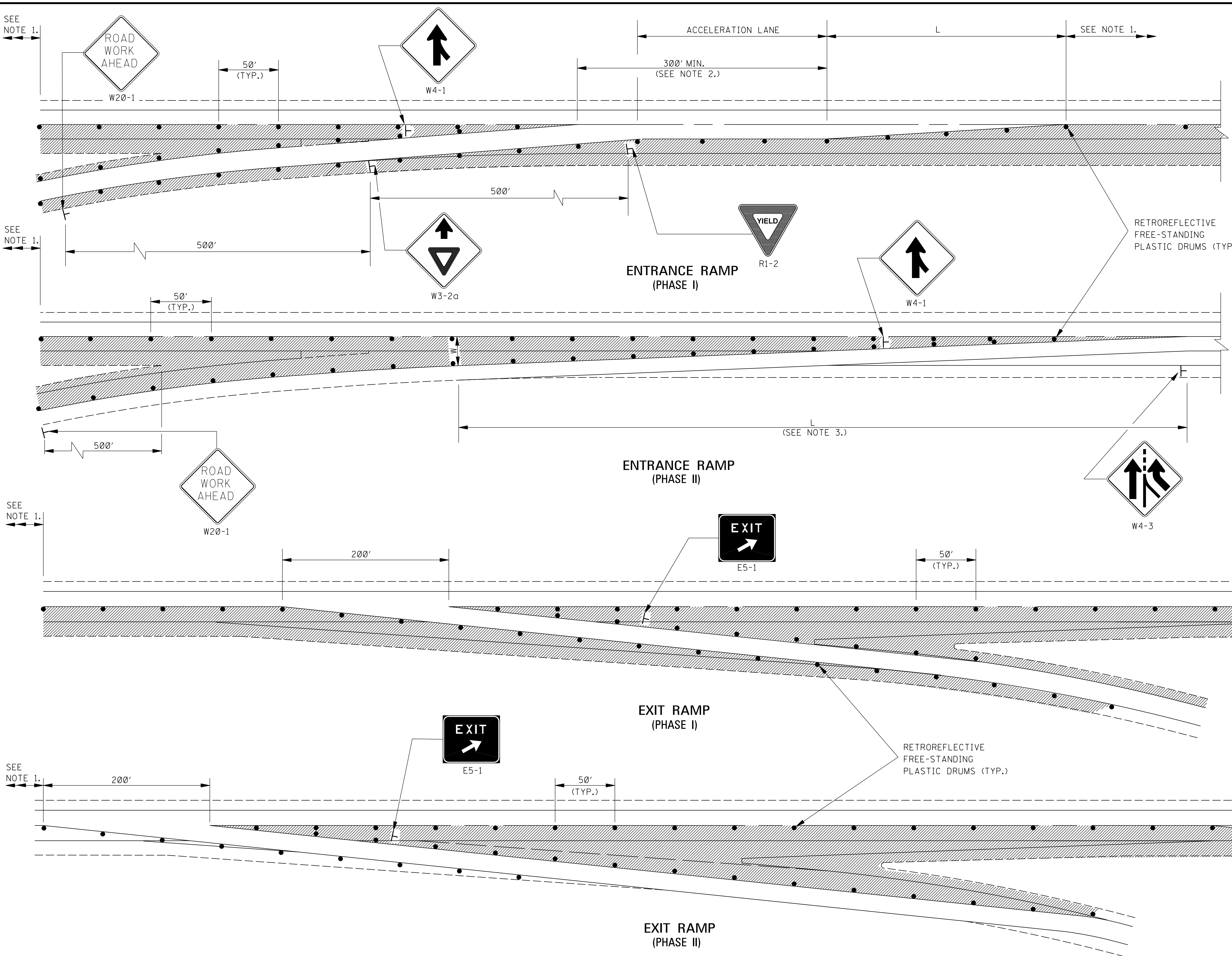
1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
  - A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
  - B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



**PLASTIC DRUM STRIPING DETAIL**

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) RETROREFLECTIVE, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		<p><b>HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS</b></p> 	
DATE			
ISSUE DATE:		AUGUST 01, 2017	
		WORKING NUMBER TCP-8	SHEET NUMBER 6358



IN PHASE I:  
 FOR STOP CONDITION: PLACE CHANGABLE MESSAGE SIGN (CMS) NEAR MIDDLE OF RAMP SHOWING PHASE I "STOP AHEAD" AND PHASE II "NO MERGE AREA".  
 FOR YIELD CONDITION: PLACE CHANGABLE MESSAGE SIGN (CMS) NEAR MIDDLE OF RAMP SHOWING MESSAGE "YIELD AHEAD".

- GENERAL NOTES:
1. FOR SIGNING, FLASHING ARROW PANEL, AND DRUM SPACING CRITERIA, SEE TYPICAL TRAFFIC CONTROL PLANS FOR LANE CLOSURES ON SHEETS TCP-2, TCP-3, TCP-4, AND TCP-5, AS APPROPRIATE
  2. IF NO ACCELERATION LANE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN (R1-2) AND THE YIELD AHEAD SIGN (W3-2A) SHALL BE REPLACED WITH A STOP SIGN (R1-1) AND A STOP AHEAD SIGN (W3-1a), ONE ON EACH SIDE OF APPROACH. WHERE STOP SIGNS ARE USED, A TEMPORARY STOP LINE SHOULD BE PLACED ACROSS THE RAMP AT THE DESIRED STOP LOCATION. IF INSUFFICIENT GAPS ARE AVAILABLE IN THE TRAFFIC STREAM, CONSIDERATION SHOULD BE GIVEN TO CLOSING THE RAMP.
  3. DETERMINE TAPER LAYOUTS USING THE FOLLOWING EQUATIONS:  
 $L = WS$  FOR SPEED OF 45 mph OR GREATER  
 $L = WS^2/60$  FOR SPEEDS OF 40 mph OR LESS  
 WHERE:  
 L = MINIMUM LENGTH OF TAPER IN FEET  
 W = WIDTH OF OFFSET IN FEET  
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR
  4. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		<b>DETAILS OF OUTSIDE LANE CLOSURE AT EXIT AND ENTRANCE RAMP</b>	
DATE		ISSUE DATE: AUGUST 01, 2017	
		 WORKING NUMBER TCP-10 SHEET NUMBER 6360	

STATE	PROJECT NO.
MISS.	NHPP-0020-01(259)

DESCRIPTION OF SHEETS SPECIAL DESIGN SHEETS ~ BRIDGE DRAWINGS	WORKING NUMBER	SHEET NUMBER
DETAILED INDEX (BRIDGE)	DI-BR	8001
BRIDGE AT STA. 412+11.71 LT. LN. BRIDGE AT STA. 412+19.21 RT. LN. - BRIDGE REPAIR		
GENERAL NOTES AND ESTIMATED QUANTITIES	1 OF 17	8002
LAYOUT OF BENTS 10L TO 13L & RIPRAP PLACEMENT	2 OF 17	8003
LAYOUT OF BENTS 12R & 13R AND RIPRAP PLACEMENT	3 OF 17	8004
FOUNDATION - RIPRAP PLACEMENT PLAN	4 OF 17	8005
FOUNDATION - CROSS-SECTION LINES	5 OF 17	8006
EROSION CONTROL PLAN	6 OF 17	8007
CROSS SECTION SHEET - CL 1-20 WESTBOUND LANE	7 OF 17	8008
CROSS SECTION SHEET - CL 1-20 WESTBOUND LANE	8 OF 17	8009
CROSS SECTION SHEET - CL 1-20 WESTBOUND LANE	9 OF 17	8010
CROSS SECTION SHEET - CL 1-20 WESTBOUND LANE	10 OF 17	8011
CROSS SECTION SHEET - CL 1-20 WESTBOUND LANE	11 OF 17	8012
CROSS SECTION SHEET - CLEAR CREEK SURVEYED THALWEG	12 OF 17	8013
CROSS SECTION SHEET - CLEAR CREEK SURVEYED THALWEG	13 OF 17	8014
CROSS SECTION SHEET - CLEAR CREEK SURVEYED THALWEG	14 OF 17	8015
CROSS SECTION SHEET - CLEAR CREEK SURVEYED THALWEG	15 OF 17	8016
CROSS SECTION SHEET - CLEAR CREEK SURVEYED THALWEG	16 OF 17	8017
CROSS SECTION SHEET - CLEAR CREEK SURVEYED THALWEG	17 OF 17	8018

SPECIAL DESIGN SHEETS INFORMATION PLANS	WORKING NUMBER	SHEET NUMBER
INFORMATION ONLY PLAN		8019
INFORMATION ONLY PLAN		8020
INFORMATION ONLY PLAN		8021

BRIDGE DIVISION REVISIONS		
DATE	SHEET NO.	BY

PLAN SECTION  
BRIDGE DIVISION  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
	DATE	BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN. DETAILED INDEX
		FMS: 108397 / 302000
		COUNTY: WARREN
		PROJECT NUMBER: NHPP-0020-01(259)
		WORKING NUMBER DI-BR
		SHEET NUMBER 8001
		DESIGNER SHANE WRIGHT DETAILER SHANE WRIGHT CHECKER Paul Deas ISSUE DATE 8/19/2020 DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.



**GENERAL NOTES:**

1. Specifications: Mississippi Standard Specifications For Road and Bridge Construction, 2017.
2. No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer.
3. Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment.
4. Work for which no pay item is provided will not be paid for directly and shall therefore be considered an absorbed item of work.
5. Any damage that occurs to the existing structure during the duration of the project shall be repaired to the satisfaction of the Engineer by the Contractor at no additional cost to the State.
6. All details are based on the dimensions shown on the original plans for the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure a proper fit with the existing structure.
7. Geotextile fabric shall be placed under all riprap.

**SCOPE OF WORK:**

1. Remove all vegetation from construction areas.
2. Place riprap around bents 10L THRU 13L as shown on sheet 8003, 8005, & 8006.
3. Place riprap around bents 12R & 13R as shown on sheets 8004, 8005, & 8006.

**INFORMATION PLANS:**

1. Original proj. no. IR-020-01(123). See sheet nos. 8019-8021 of these plans.
2. For more information plans contact the Mississippi Department of Transportation, Bridge Division.

**NOTES:**

1. All excess dirt shall be used to fill in any washout spots or to level any low spots as instructed by the project engineer. This work shall be considered as an absorbed item.

**MAINTENANCE OF TRAFFIC:**

Maintain Traffic in accordance with Section 618 2017 Edition of the Standard Specifications For Road and Bridge Construction, the latest edition of the MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART 6 and the Traffic Control Plans included in these plans.

**EXISTING DRAINAGE DATA:**

**DRAINAGE DATA:**  
 Drainage area. . . . . 36.0 sq. mi.  
 Total 0100 (U.S.G.S.) . . . . . 21,200 c.f.s.

100 Year Scour Elevations	
Bent no.	Elevation
10L	111.62'
11L	104.27'
12L	82.15'
13L	95.82'

500 Year Scour Elevations	
Bent no.	Elevation
10L	110.53'
11L	102.60'
12L	82.21'
13L	96.85'

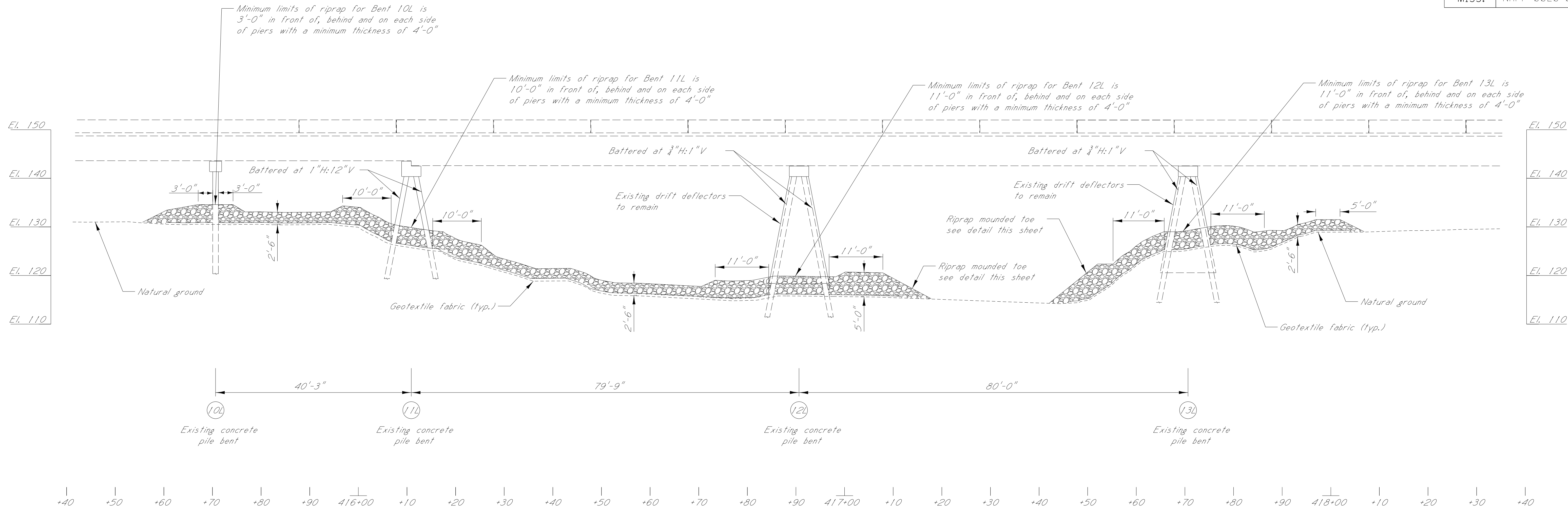
ESTIMATED BRIDGE QUANTITIES			
PAY ITEM NO.	DESCRIPTION	QUANTITIES	UNIT
201-B001	Clearing And Grubbing	1	ACRE
815-A007	Loose Riprap, Size 300	10343	TON
815-E001	Geotextile Under Riprap	5050	SY



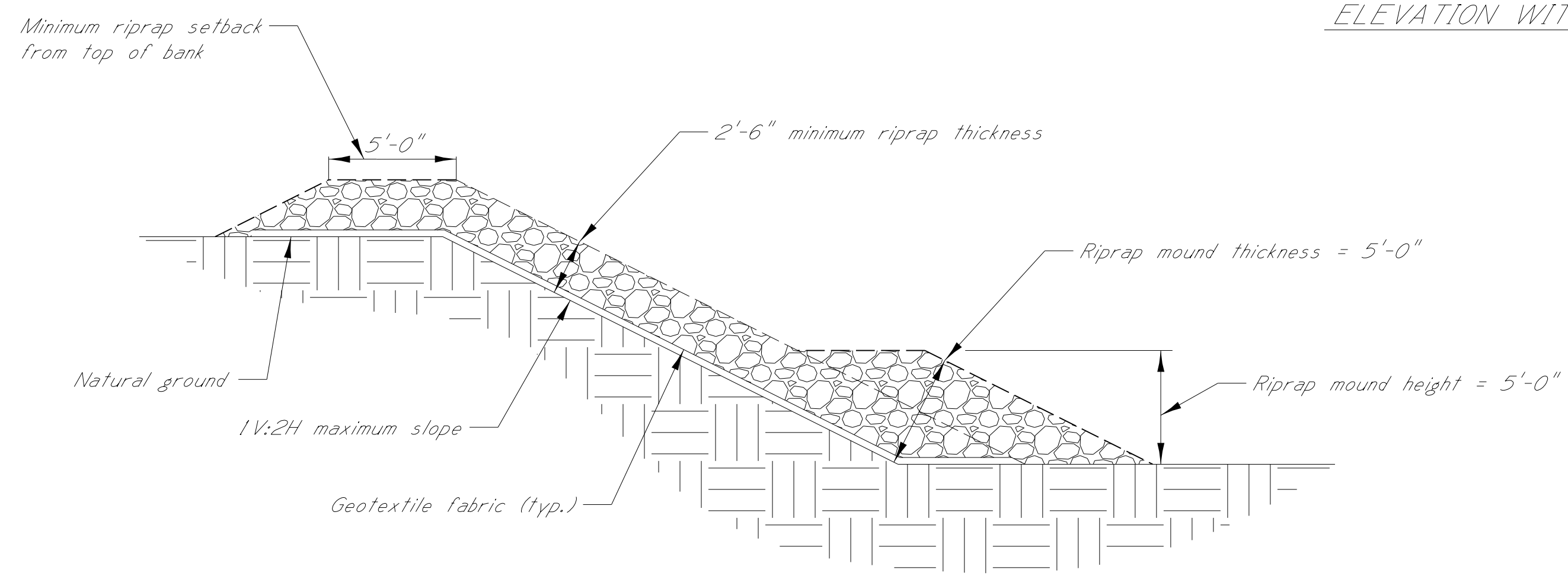
REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
	DATE	BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN.
		GENERAL NOTES, & ESTIMATED QUANTITIES
		FMS: 108397 / 302000 COUNTY: WARREN PROJECT NUMBER: NHPP-0020-01(259)
	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
	WORKING NUMBER	1 OF 17
	SHEET NUMBER	8002

PLAN SECTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

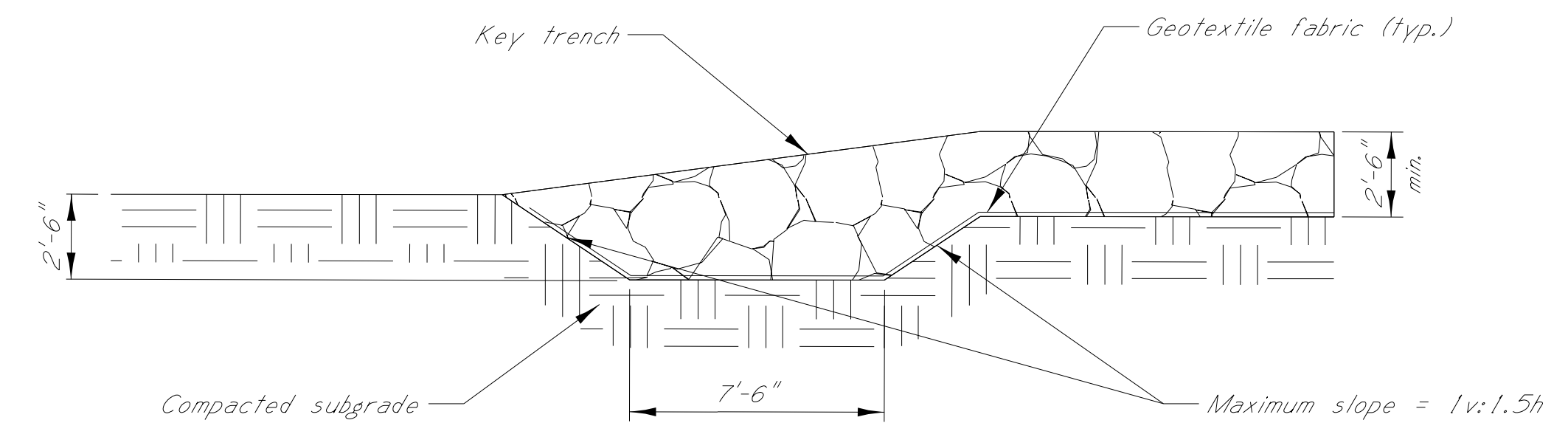
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ELEVATION WITH PROFILE ALONG I-20 (WESTBOUND)  
Scale: 1" = 20'



RIPRAP REVETMENT WITH MOUNDED TOE TYPICAL DETAIL

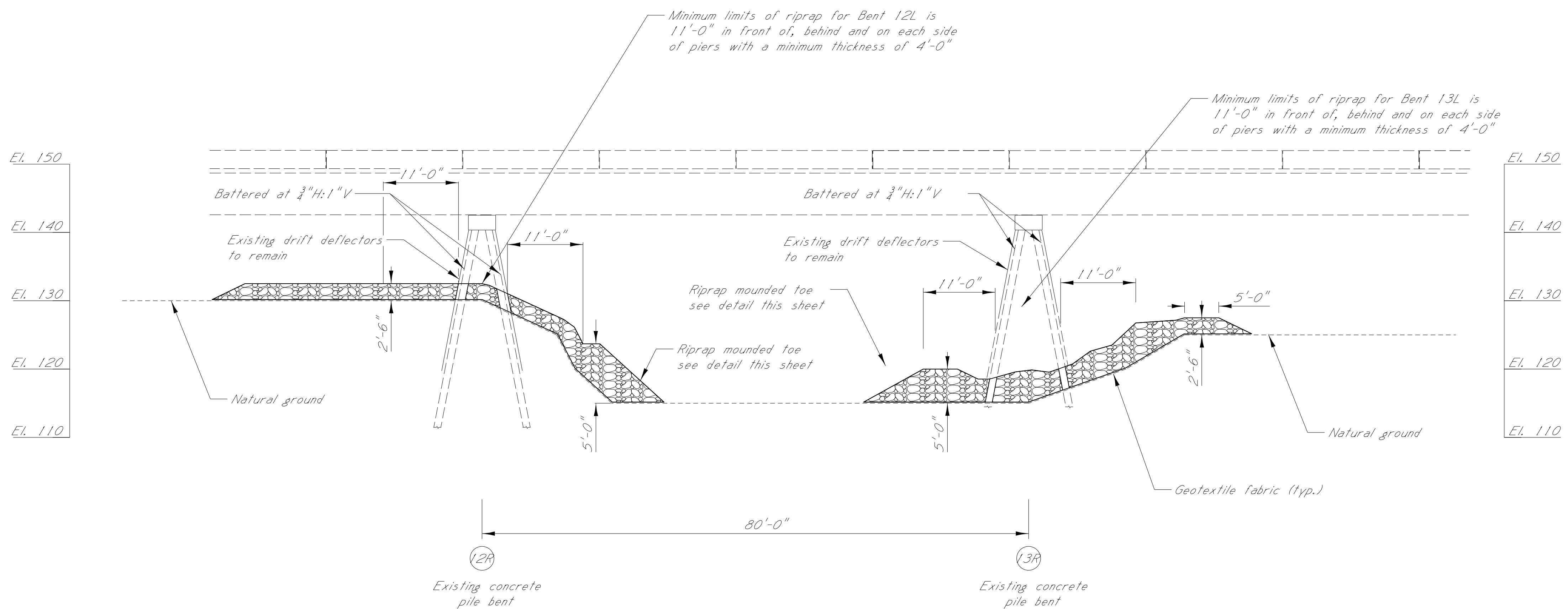


TERMINATION KEY TRENCH DETAIL  
FOR UPSTREAM AND DOWNSTREAM TERMINATION  
SECTION A-A



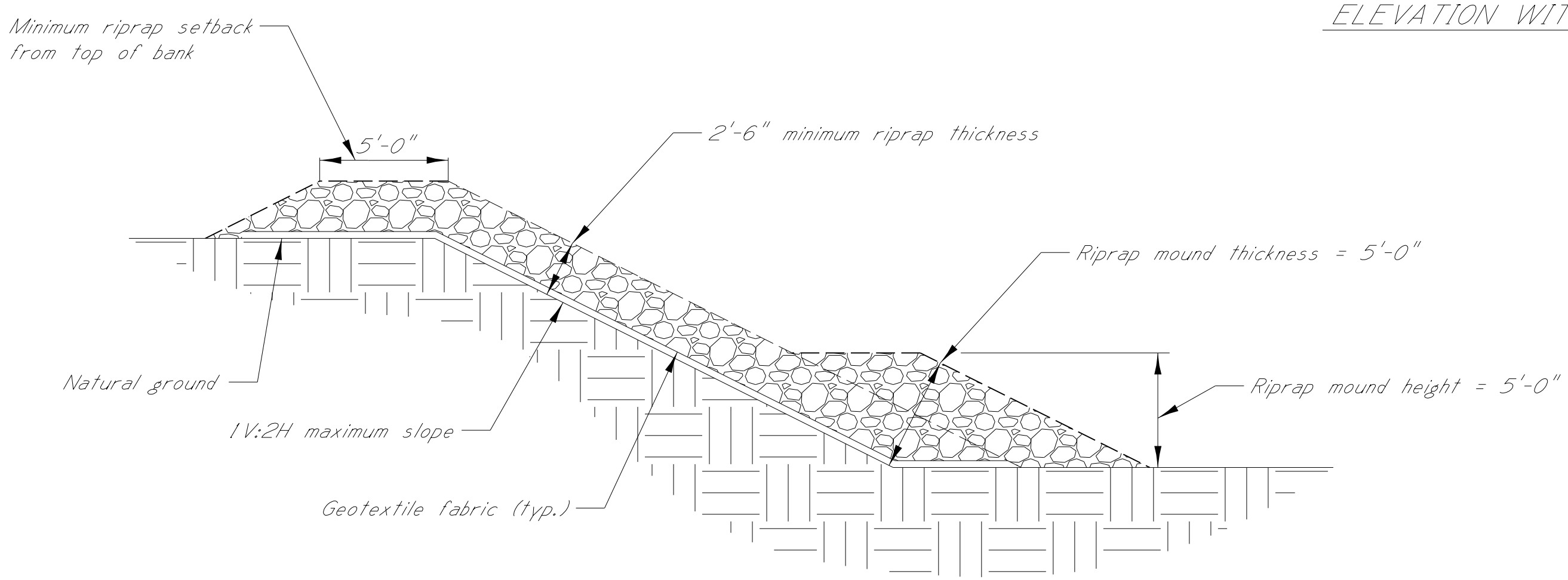
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN.	
REVISION	LAYOUT OF BENTS 10L TO 13L AND RIPRAP PLACEMENT	
	FMS:108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
	WORKING NUMBER	2 OF 17
	SHEET NUMBER	8003

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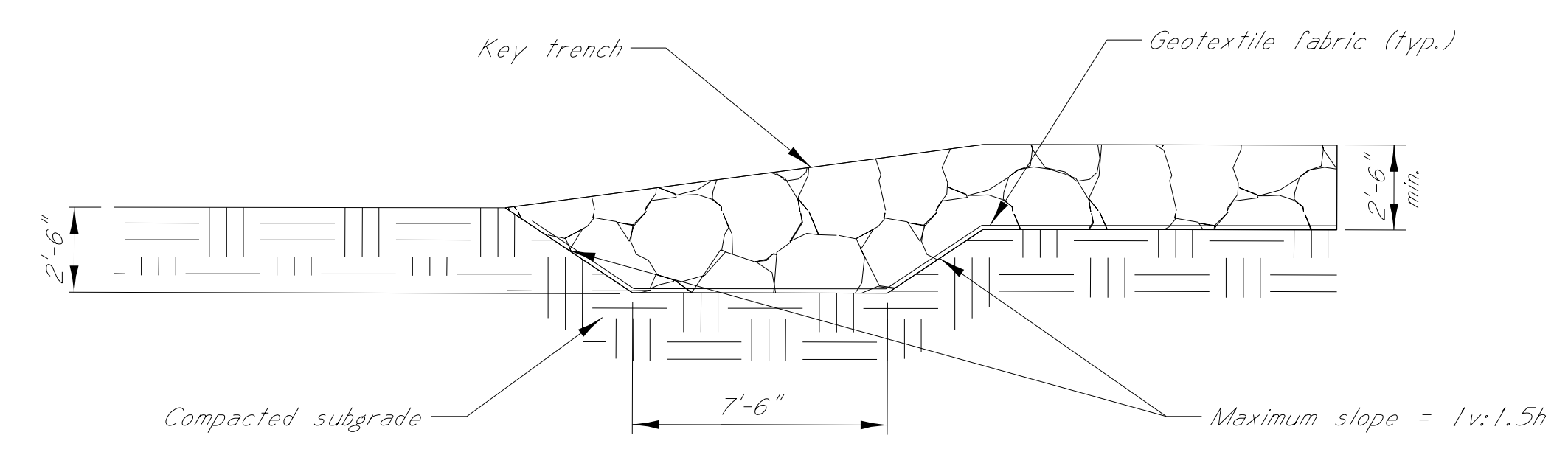


+40 +50 +60 +70 +80 +90 416+00 +10 +20 +30 +40 +50 +60 +70 +80 +90 417+00 +10 +20 +30 +40 +50 +60 +70 +80 +90 418+00 +10 +20 +30 +40

ELEVATION WITH PROFILE ALONG I-20 (WESTBOUND)  
Scale: 1" = 20'



RIPRAP REVETMENT WITH MOUNDED TOE TYPICAL DETAIL

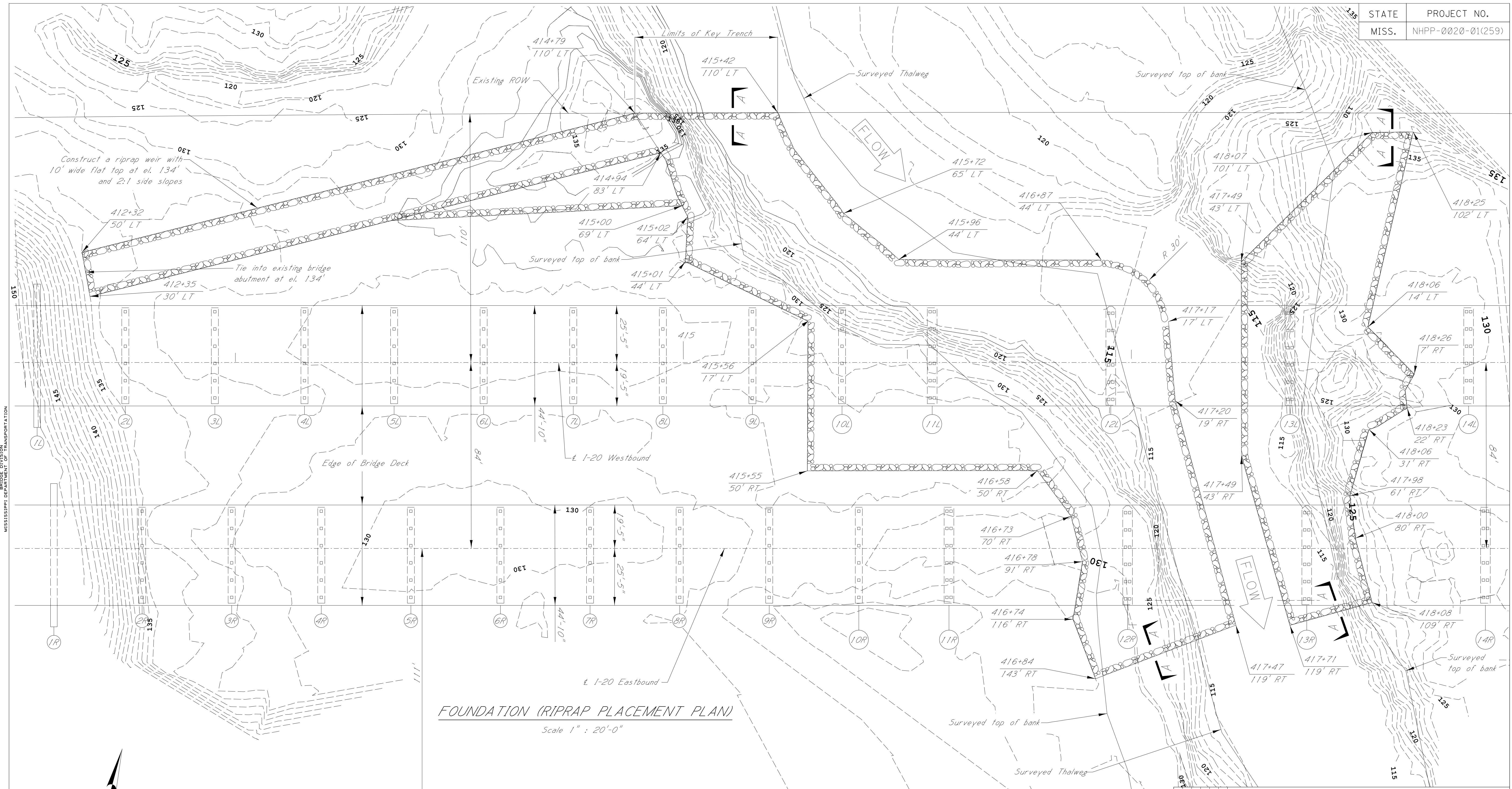


TERMINATION KEY TRENCH DETAIL  
FOR UPSTREAM AND DOWNSTREAM TERMINATION  
SECTION A-A



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
REVISION	BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN. LAYOUT OF BENTS 12R & 13R AND RIPRAP PLACEMENT
DATE	FMS: 108397/302000 COUNTY: WARREN PROJECT NUMBER: NHPP-0020-01(259)
DESIGNER	SHANE WRIGHT
CHECKER	PAUL DEES
DETAILER	SHANE WRIGHT
ISSUE DATE	8/19/2020
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
WORKING NUMBER	3 OF 17
SHEET NUMBER	8004

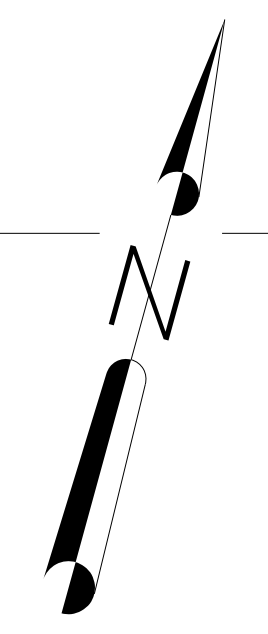
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PROJECT PLAN  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001: 00 ANPM DGN FILE NAME

**FOUNDATION (RIPRAP PLACEMENT PLAN)**  
Scale 1" = 20'-0"

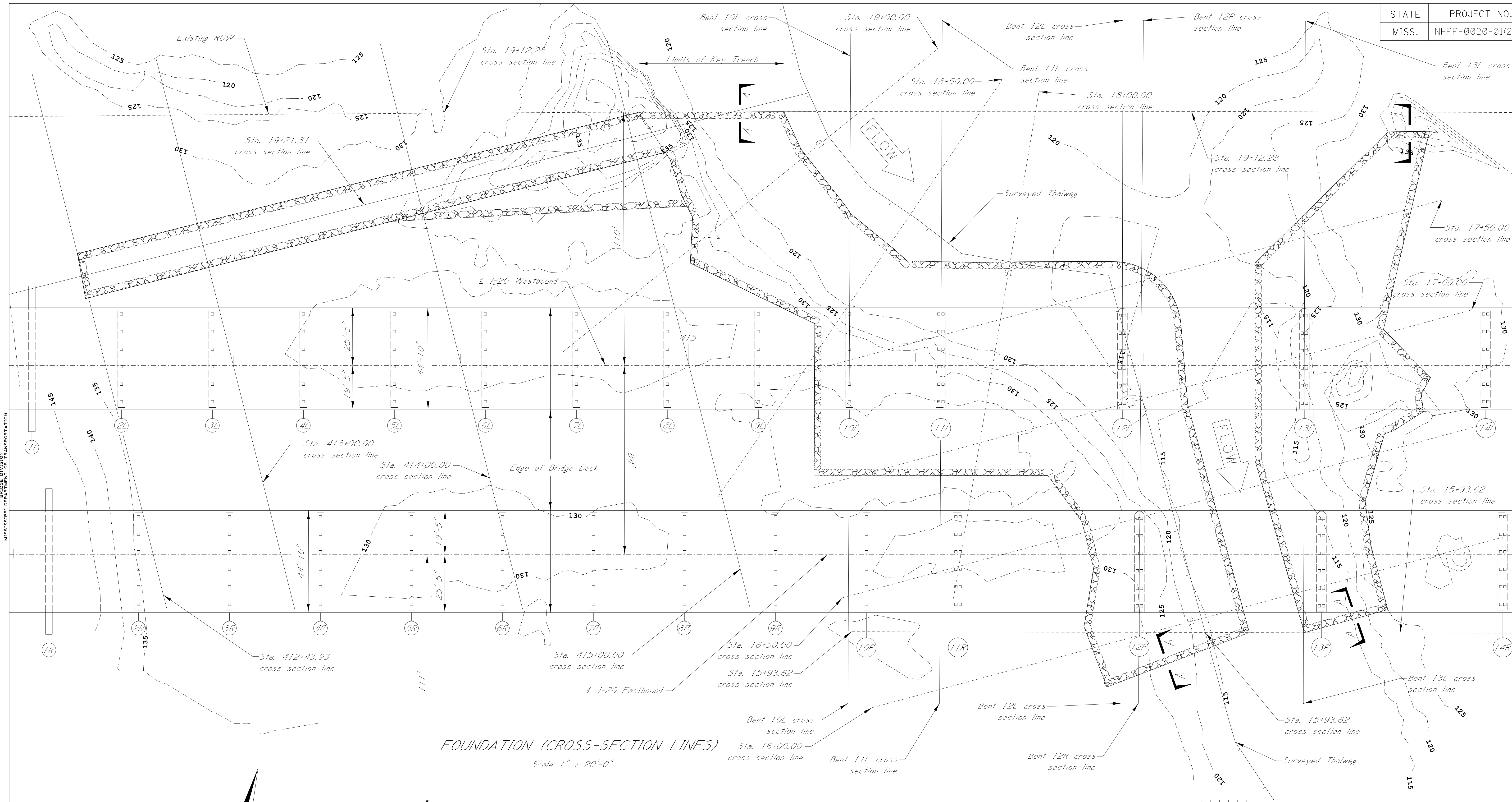


- NOTES:**
1. All station and offsets are from the 1-20 Westbound alignment. For cross-sections along 1-20 Westbound alignment see sheets no. 8008 - 8012.
  2. Due to active channel movement, stations at top of banks and offsets may need adjusting during placement to ensure riprap extends 5'-0" past top of bank.
  3. For cross-section locations along 1-20 Westbound alignment and surveyed thalweg see sheet no. 8006.



BY MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
BRIDGE AT STA. 412+11.71 LT.LN.	
BRIDGE AT STA. 412+19.21 RT.LN.	
FOUNDATION RIPRAP PLACEMENT PLAN	
FMS: 108397 / 302000	
COUNTY: WARREN	
PROJECT NUMBER: NHPP-0020-01(259)	
DATE	WORKING NUMBER
DESIGNER SHANE WRIGHT	4 OF 17
DETAILER SHANE WRIGHT	8005
CHECKER PAUL DEES	
ISSUE DATE 8/19/2020	
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	





**FOUNDATION (CROSS-SECTION LINES)**  
Scale 1" = 20'-0"

**NOTES:**  
Due to active channel movement, stations at top of banks and offsets may need adjusting during placement to ensure riprap extends 5'-0" past top of bank.

- Existing ROW
- Cross section line along I-20 Westbound alignment. See sheet nos. 8008 - 8012
- - - Cross section line along Clear Creek surveyed thalweg. See sheet nos. 8013 - 8018

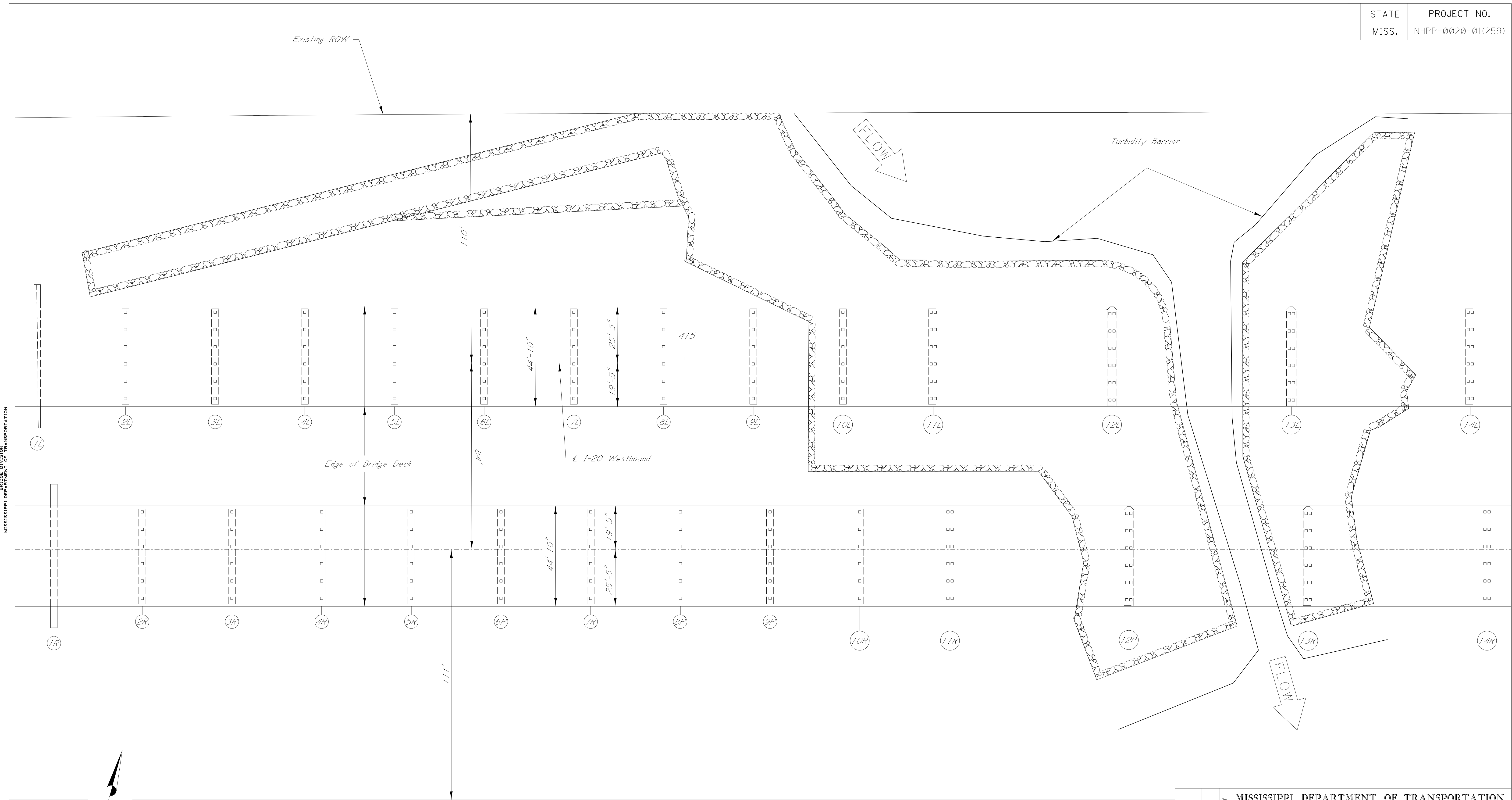
**LEGEND**



BY MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN.	
FOUNDATION CROSS-SECTION LINES	
FMS: 108397 / 302000	
COUNTY: WARREN	
PROJECT NUMBER: NHPP-0020-01(259)	
REVISION	WORKING NUMBER
	5 OF 17
	SHEET NUMBER
	8006
DATE	DESIGNER SHANE WRIGHT
	CHECKER PAUL DEES
	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

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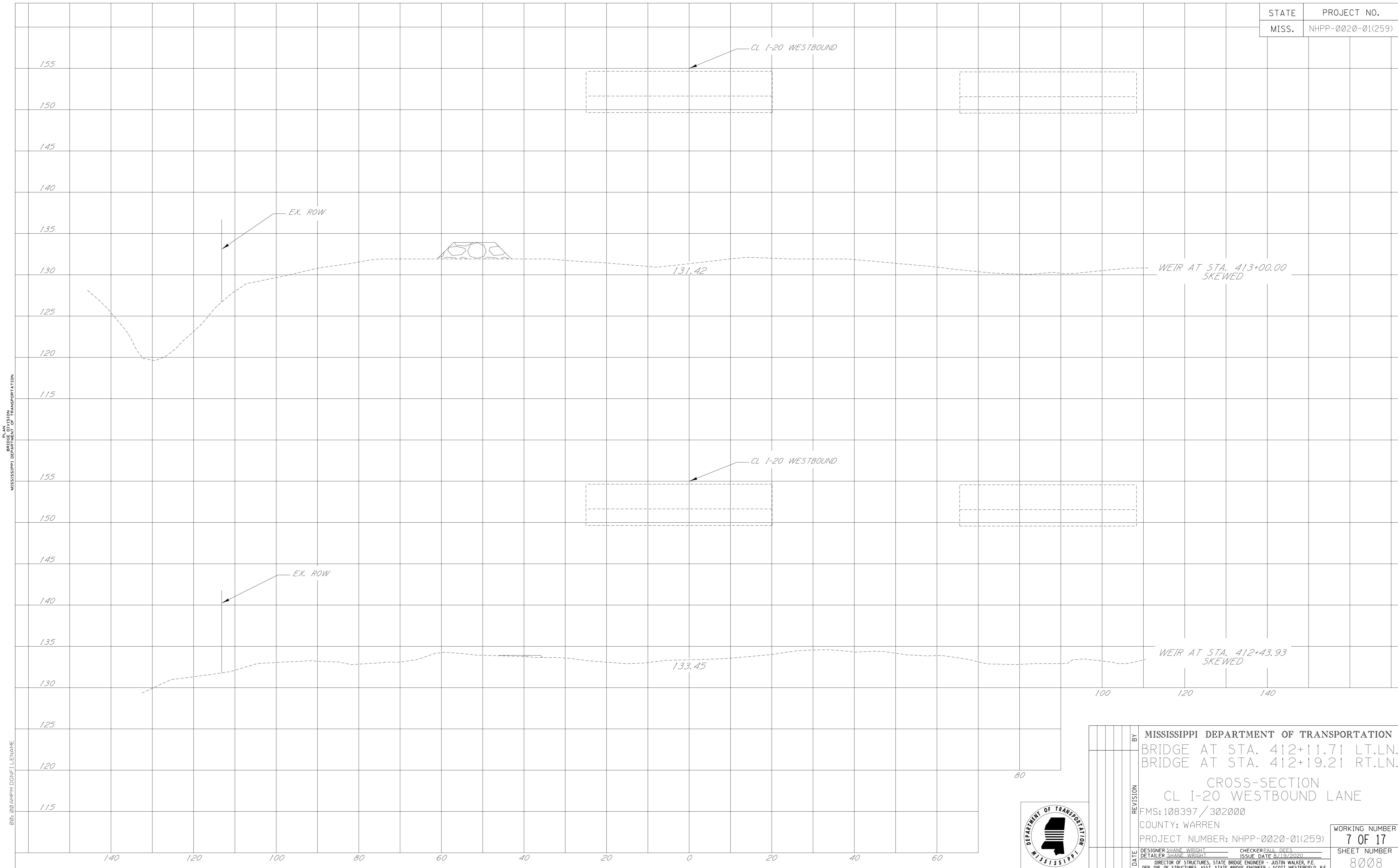


**EROSION CONTROL MEASURES:**

1. No dirt can be pushed into the creek or river.
2. No silt or spills shall enter the waterway.
3. If a work platform is needed, riprap may be placed. - (This is considered an absorbed item)
4. Minimize disturbance to existing banks.
5. Clearing shall be kept to a minimum and grubbing only where required.
6. Turbidity barrier shall be used.



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN.	
	EROSION CONTROL PLAN	
REVISION	FMS: 108397 / 302000	WORKING NUMBER
	COUNTY: WARREN	6 OF 17
	PROJECT NUMBER: NHPP-0020-01(259)	SHEET NUMBER
		8007
DATE	DESIGNER SHANE WRIGHT DETAILER SHANE WRIGHT	CHECKER PAUL DEES ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	



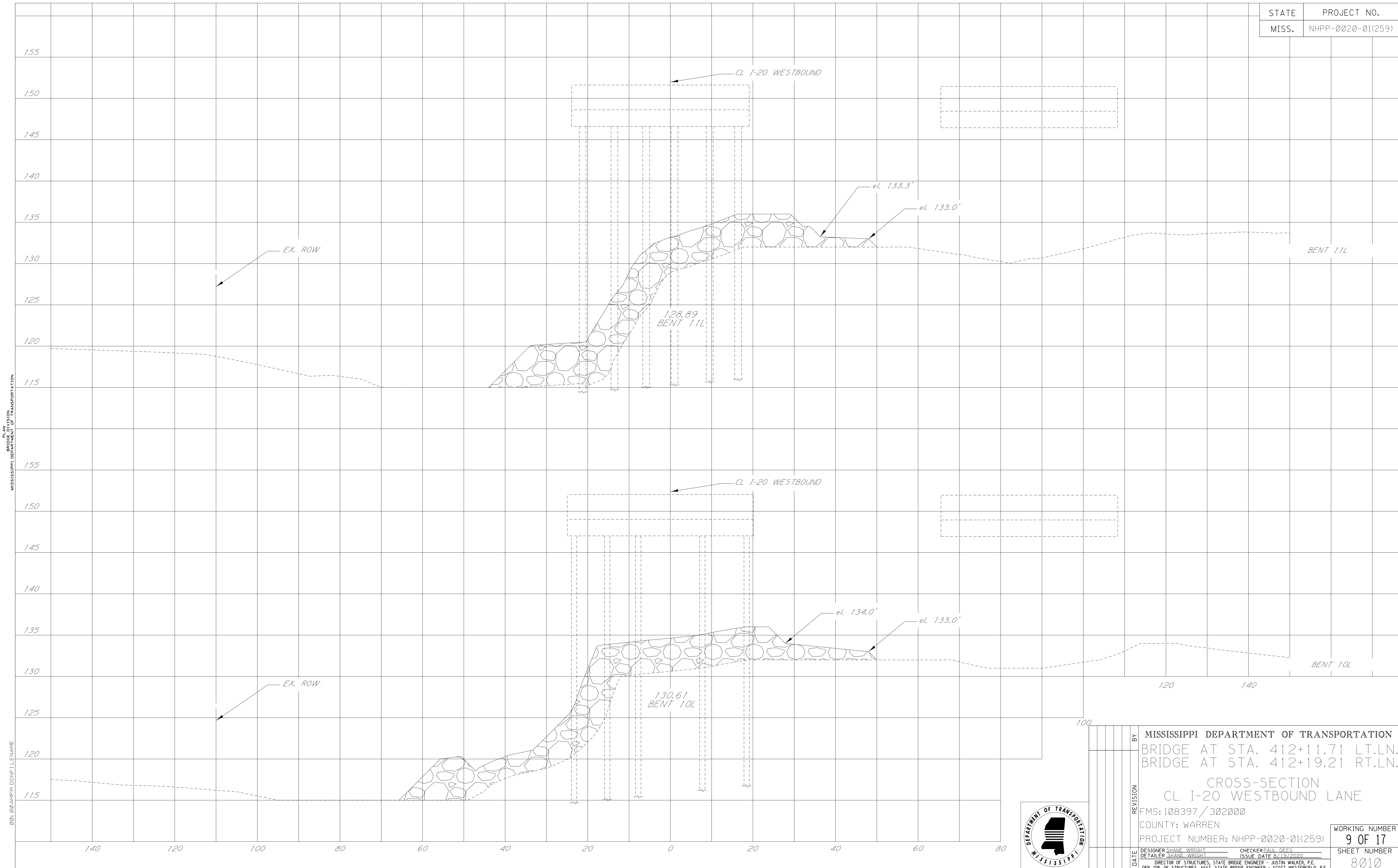
MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 PROJECT 412  
 PLAN SECTION



MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN. CROSS-SECTION CL I-20 WESTBOUND LANE FMS: 108397/302000 COUNTY: WARREN PROJECT NUMBER: NHPP-0020-01(259)		WORKING NUMBER <b>7 OF 17</b>
REVISION DATE	BY DESIGNER SHANE WRIGHT DETAILER SHANE WRIGHT DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	CHECKER PAUL DEES ISSUE DATE 8/19/2020 SHEET NUMBER <b>8008</b>



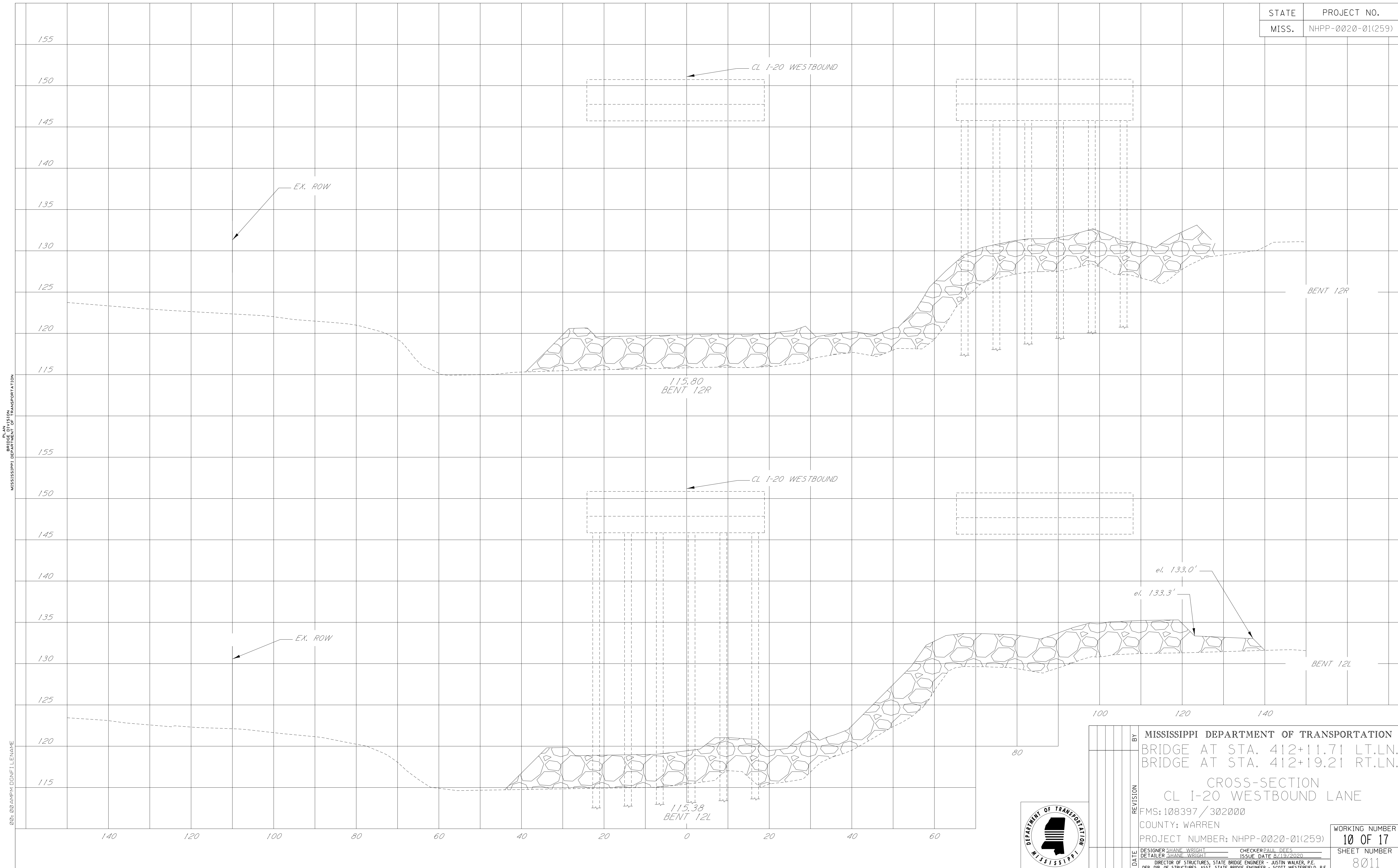




PLAN SECTION  
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 001:00 AMPM.DGN FILENAME



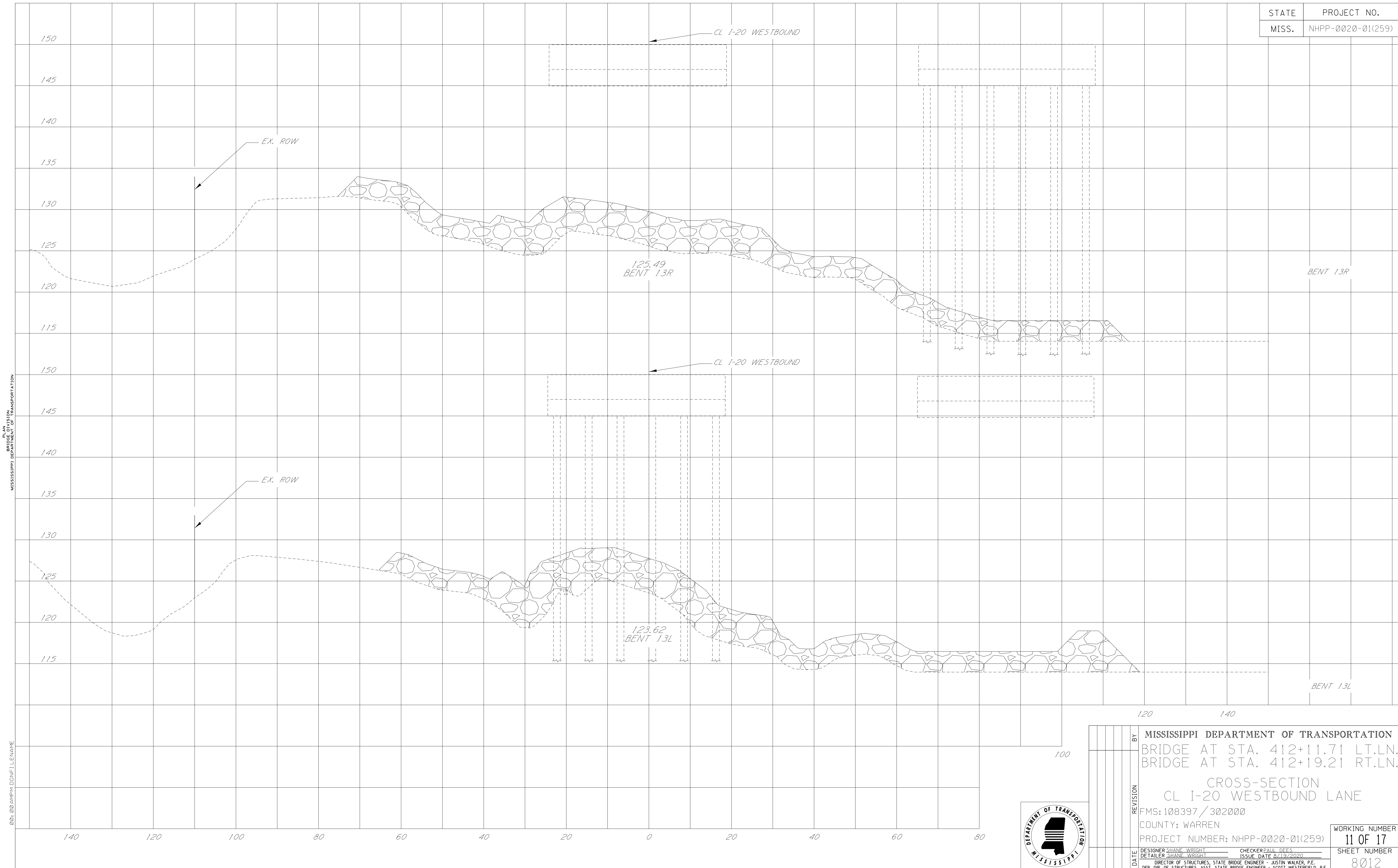
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION		
	BRIDGE AT STA. 412+11.71 LT.LN.		
	BRIDGE AT STA. 412+19.21 RT.LN.		
	CROSS-SECTION		
	CL I-20 WESTBOUND LANE		
	FMS:108397/302000		
	COUNTY: WARREN		
	PROJECT NUMBER: NHPP-0020-01(259)		
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES	WORKING NUMBER
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020	9 OF 17
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.		SHEET NUMBER
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.		8010



001: 00 AMPM DGN FILE NAME  
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 PROJECT  
 PLAN



REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
		BRIDGE AT STA. 412+11.71 LT.LN. BRIDGE AT STA. 412+19.21 RT.LN.	
		CROSS-SECTION CL I-20 WESTBOUND LANE	
		FMS: 108397/302000	
		COUNTY: WARREN	
		PROJECT NUMBER: NHPP-0020-01(259)	
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES	WORKING NUMBER
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020	10 OF 17
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.		SHEET NUMBER
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.		8011

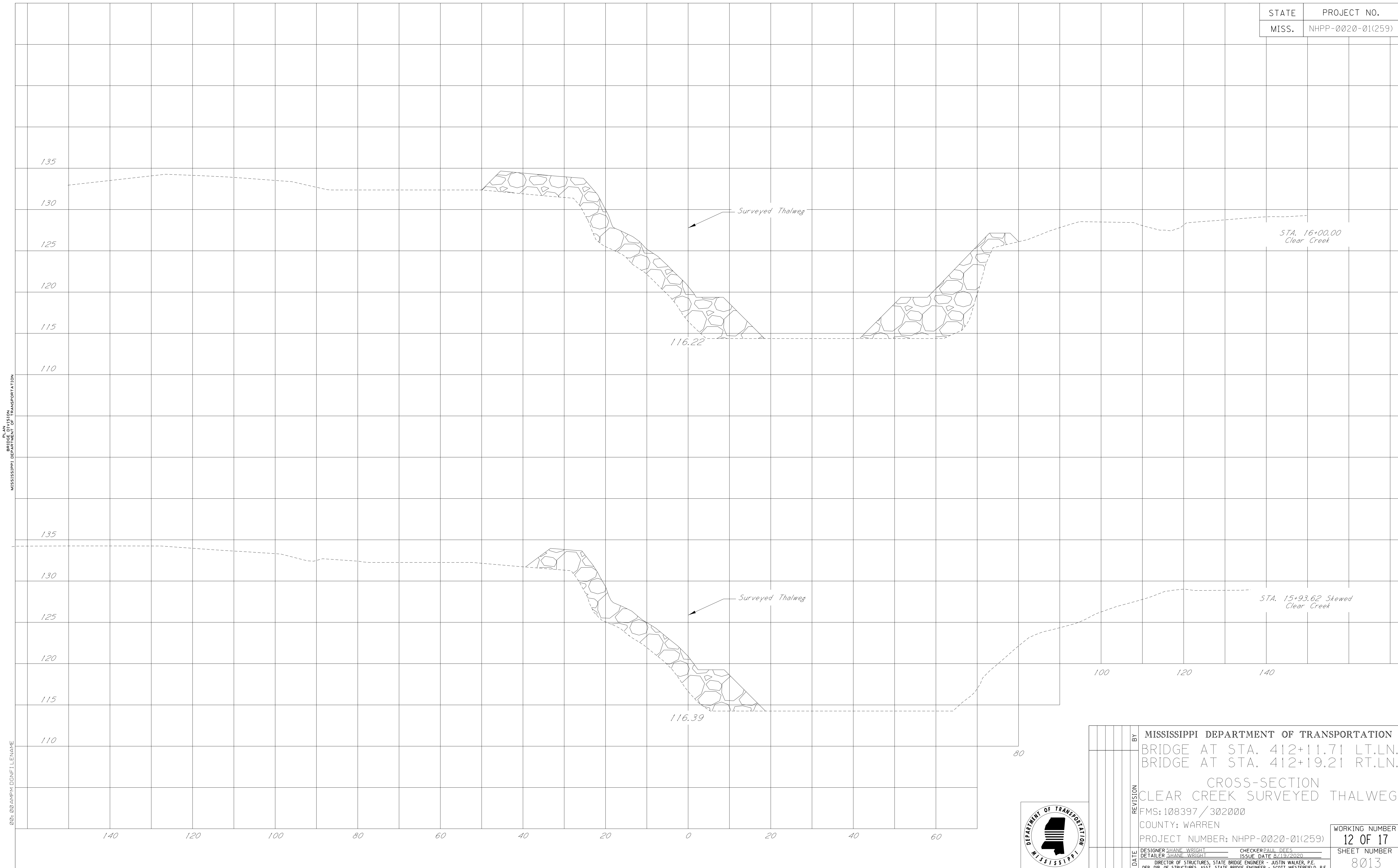


PLAN SECTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001: 00 AMPM DGNFILENAME



REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
		BRIDGE AT STA. 412+11.71 LT.LN.	
		BRIDGE AT STA. 412+19.21 RT.LN.	
		CROSS-SECTION CL I-20 WESTBOUND LANE	
		FMS: 108397/302000	
		COUNTY: WARREN	
		PROJECT NUMBER: NHPP-0020-01(259)	
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES	WORKING NUMBER
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020	11 OF 17
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.		SHEET NUMBER
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.		8012



PLAN  
SECTION  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001: 00 AMPM.DGN FILE NAME



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN.	
	BRIDGE AT STA. 412+19.21 RT.LN.	
	CROSS-SECTION	
	CLEAR CREEK SURVEYED THALWEG	
REVISION	FMS: 108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	WORKING NUMBER
		12 OF 17
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
		SHEET NUMBER
		8013



135  
130  
125  
120  
115  
110

STA. 17+00.00  
Clear Creek

Surveyed Thalweg  
115.98

135  
130  
125  
120  
115  
110

STA. 16+50.00  
Clear Creek

Surveyed Thalweg  
115.73

140 120 100 80 60 40 20 0 20 40 60 80

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001: 00 AMPM DGNFILENAME



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN.	
	BRIDGE AT STA. 412+19.21 RT.LN.	
	CROSS-SECTION	
	CLEAR CREEK SURVEYED THALWEG	
REVISION	FMS: 108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	WORKING NUMBER
		13 OF 17
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
		SHEET NUMBER
		8014

135  
130  
125  
120  
115  
110

Surveyed Thalweg

STA. 18+00.00  
Clear Creek

115.25

135  
130  
125  
120  
115  
110

Surveyed Thalweg

STA. 17+50.00  
Clear Creek

114.63

100 120 140

80

140 120 100 80 60 40 20 0 20 40 60

001: 00 AMPM DGNFILENAME

PLAN  
SECTION  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN.	
	BRIDGE AT STA. 412+19.21 RT.LN.	
	CROSS-SECTION	
	CLEAR CREEK SURVEYED THALWEG	
REVISION	FMS: 108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	WORKING NUMBER
		14 OF 17
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
		SHEET NUMBER
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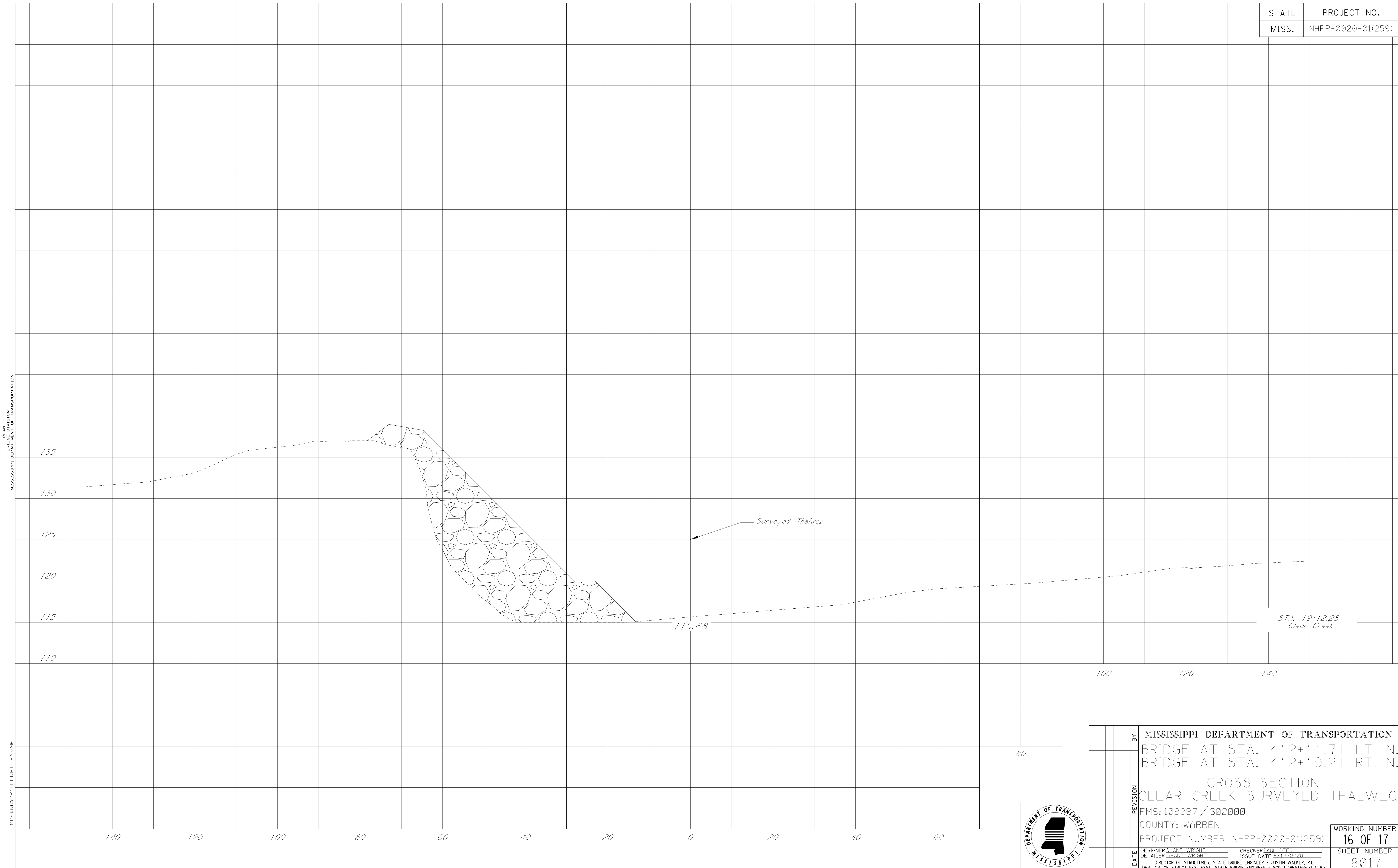


MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 PROJECT  
 PLAN  
 00:00 AHPM.DGN FILE NAME



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN.	
	BRIDGE AT STA. 412+19.21 RT.LN.	
	CROSS-SECTION	
	CLEAR CREEK SURVEYED THALWEG	
REVISION	FMS:108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
	WORKING NUMBER	
	15 OF 17	
	SHEET NUMBER	
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STATE	PROJECT NO.
MISS.	NHPP-0020-01(259)

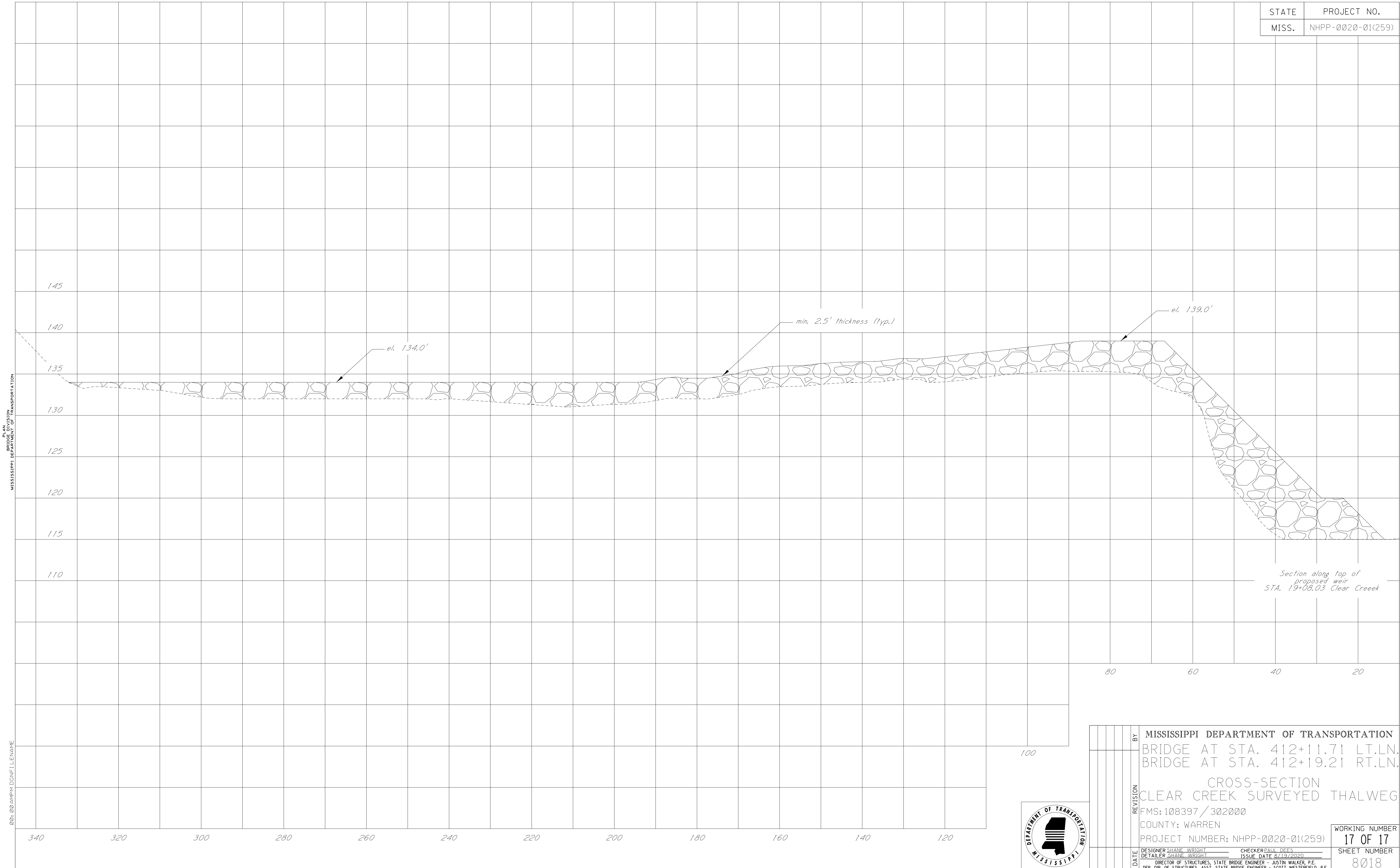


PLAN  
SECTION  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001: 00 AMPM DGNFILENAME



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN.	
	BRIDGE AT STA. 412+19.21 RT.LN.	
	CROSS-SECTION	
	CLEAR CREEK SURVEYED THALWEG	
REVISION	FMS: 108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	WORKING NUMBER
		16 OF 17
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
		SHEET NUMBER
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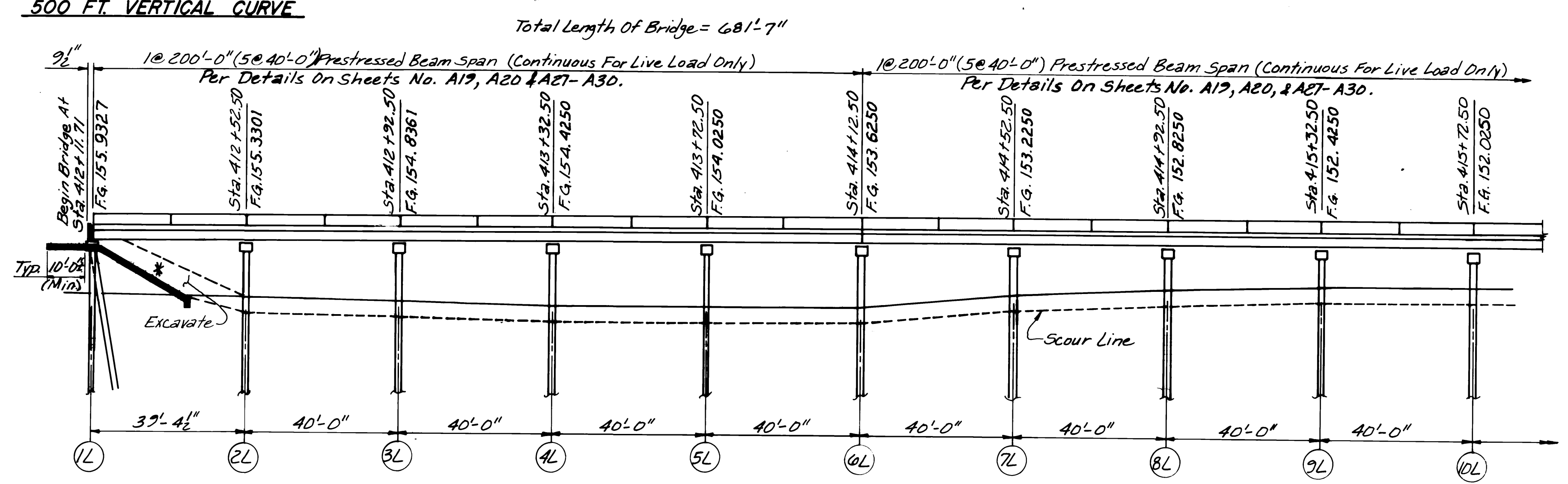
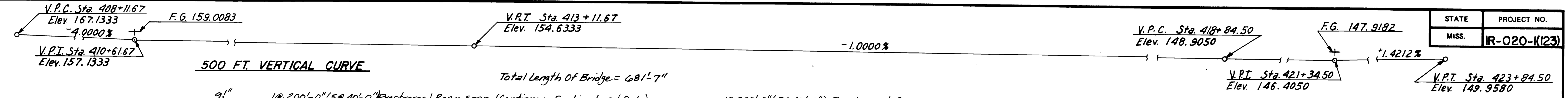
PLAN SECTION  
PROPOSED  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001: 00 AMPM DGNFILENAME



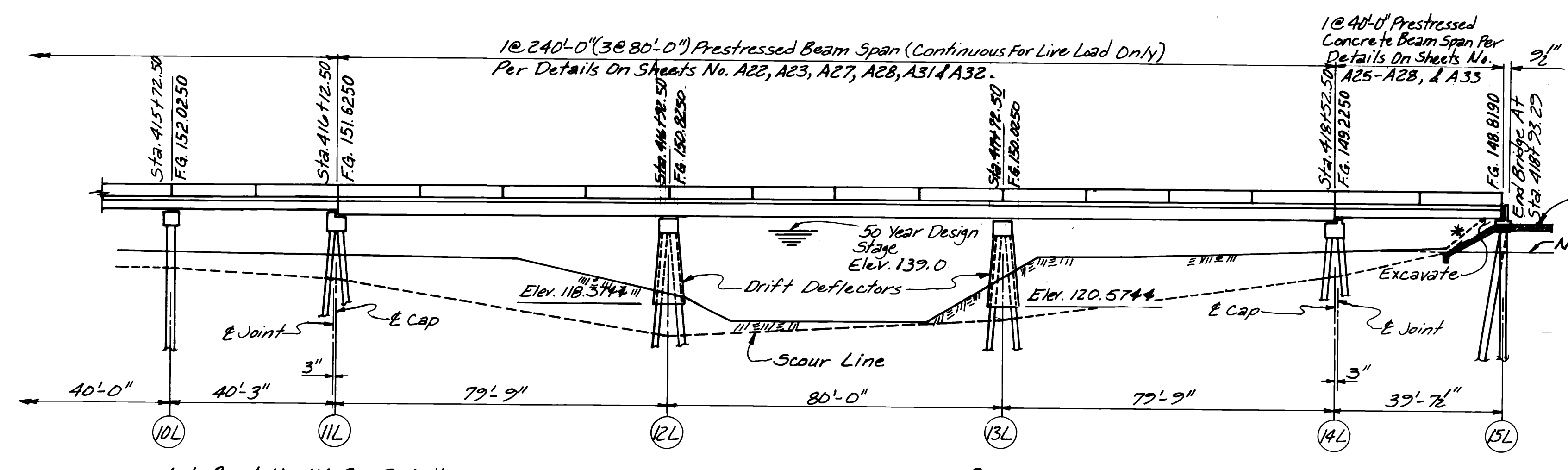
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	BRIDGE AT STA. 412+11.71 LT.LN.	
	BRIDGE AT STA. 412+19.21 RT.LN.	
	CROSS-SECTION	
	CLEAR CREEK SURVEYED THALWEG	
REVISION	FMS:108397/302000	
	COUNTY: WARREN	
	PROJECT NUMBER: NHPP-0020-01(259)	WORKING NUMBER
		17 OF 17
DATE	DESIGNER SHANE WRIGHT	CHECKER PAUL DEES
	DETAILER SHANE WRIGHT	ISSUE DATE 8/19/2020
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.	
	DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	
		SHEET NUMBER
		8018





Prestressed Concrete Pile End Bent 1L Per Details On Sheets No. A6, A10, 10-14"x14" Prest. Conc. Piles.

Int. Bents No. 2L-10L Per Details On Sheet No. A11. 6-16"x16" Prest. Conc. Piles Per Bent.



ELEVATION WITH PROFILE ALONG C.L.T. LN. Scale: 1" = 20'-0"

Int. Bent No. 11L Per Details On Sheet No. A12. 12-16"x16" Prest. Conc. Piles.

Int. Bent No. 12L & 13L Per Details On Sheet No. A14 & A16. 13-16"x16" Prest. Conc. Piles Per Bent.

Int. Bent No. 14L Per Details On Sheet No. A17. 12-16"x16" Prest. Conc. Piles.

\* 2:1 Slope Normal To Bent.

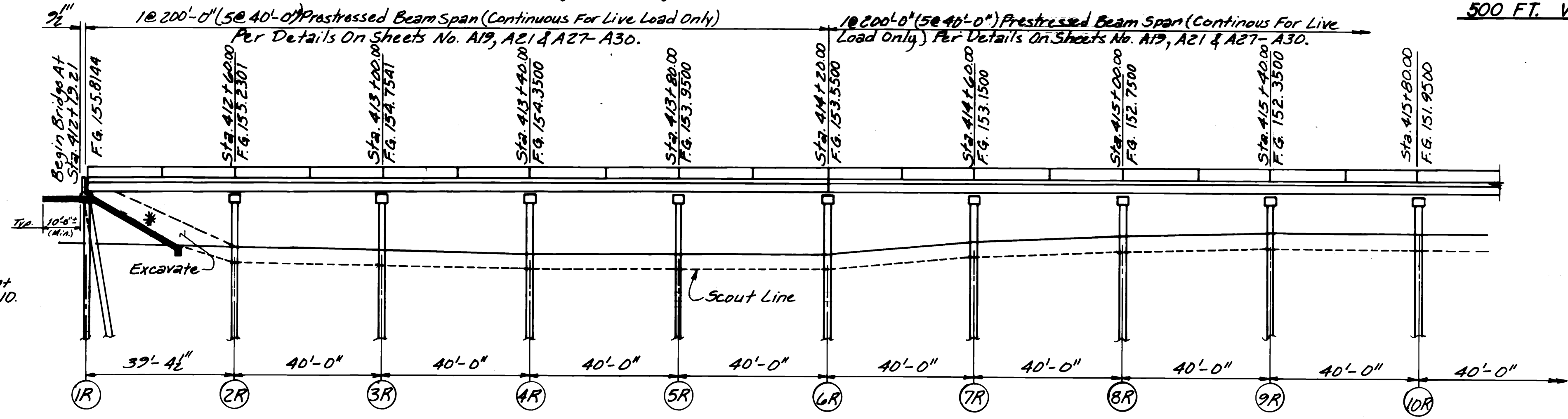
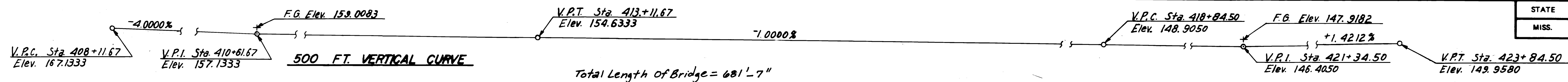
SPAN NOTES: Seal Deck Joint At Bent No. 1L, 6L, 11L, 14L & 15L Per Detail On Sheet No. A27.

End Bents No. 1L & 15L : 14" x 14" Prest. Conc. Piles X 50'-0"  
 Int. Bents No. 2L, 3L, 4L, 5L, 6L, 7L, 8L, 9L, 10L, 11L, 12L, 13L, 14L : 16" x 16" Prest. Conc. Piles X 50'-0"  
 Int. Bents No. 12L, 13L, 14L : 12" x 16" Prest. Conc. Piles X 50'-0"  
 Int. Bents No. 15L : 12" x 16" Prest. Conc. Piles X 50'-0"  
 Int. Bents No. 16L : 12" x 16" Prest. Conc. Piles X 50'-0"

BY		MISSISSIPPI STATE HIGHWAY DEPARTMENT	
REVISIONS		BRIDGE AT STA. 412 + 11.71 LT. LN. BRIDGE AT STA. 412 + 19.21 RT. LN.	
DATE		I-20 ACROSS CLEAR CREEK PROJECT IR-020-1(123) WARREN - HINDS COUNTY	
DESIGNED	TJA	DATE	5/10/91
CHECKED	RJA	ISSUED	1/2
WORKING NUMBER		A2 OF 34	
SHEET NUMBER		467	

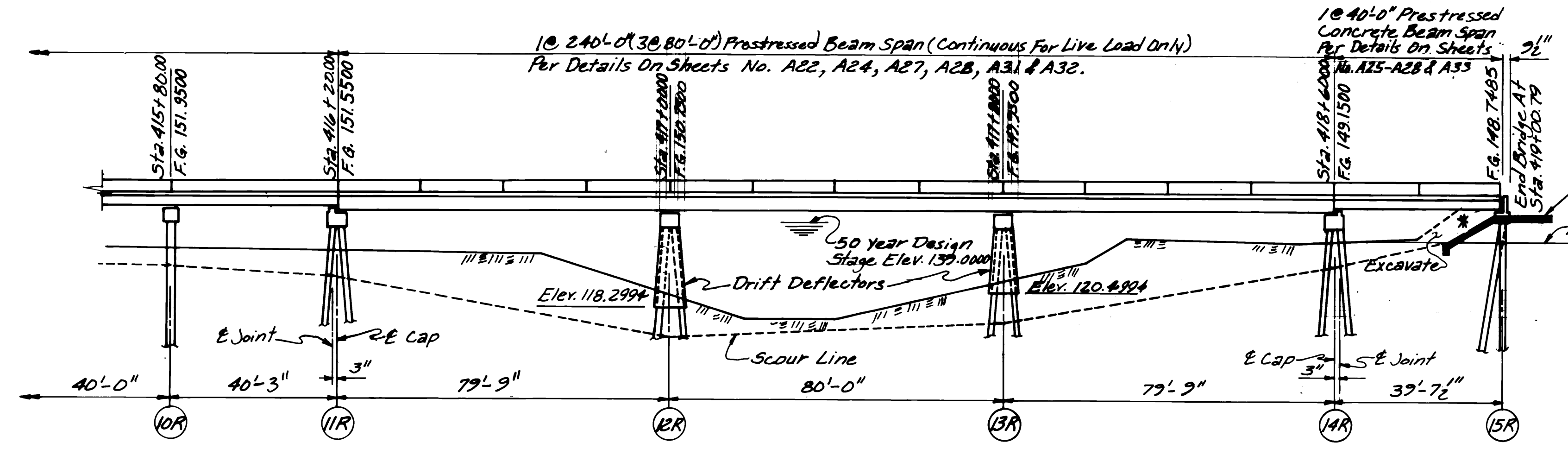
14900-LT.LN.





Prestressed Concrete Pile End Bent 1R Per Details On Sheet No. A7 & A10. 10-14"x14" Prest. Conc. Piles.

Int. Bents No. 2R-10R Per Details On Sheet No. A11. 6-16"x16" Prest. Conc. Piles Per Bent



Int. Bent No. 11R Per Details On Sheet No. A13. 12-16"x16" Prest. Conc. Piles.

ELEVATION WITH PROFILE ALONG C. RT. LN. Scale: 1"=20'-0"

Int. Bents No. 12R & 13R Per Details On Sheets No. A15 & A16. 15-16"x16" Prest. Conc. Piles Per Bent.

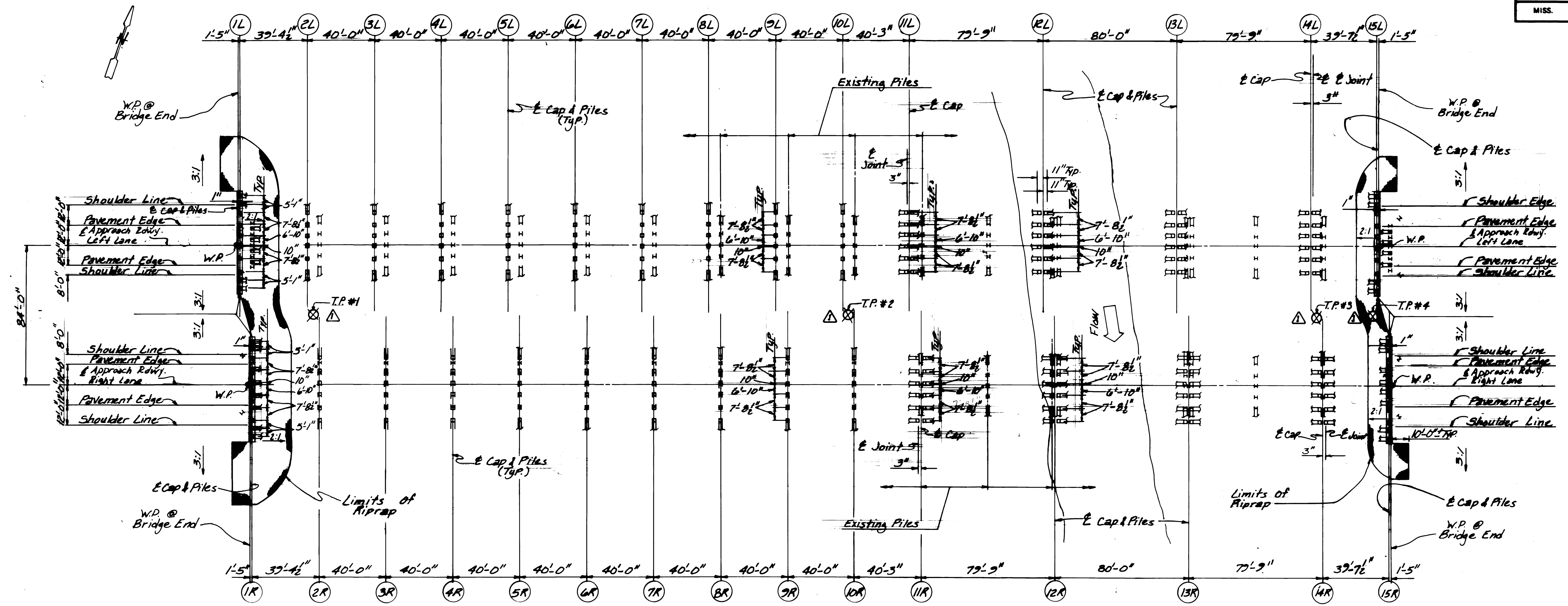
Int. Bent No. 14R Per Details On Sheet No. A18. 12-16"x16" Prest. Conc. Piles.

\* 2:1 Slope Normal To Bent.

SPAN NOTE: Seal Deck Joints At Bent No. 12R, 6R, 11R, 14R, & 15R Per Detail On Sheet No. A27.

REVISIONS		DATE	
<b>MISSISSIPPI STATE HIGHWAY DEPARTMENT</b> BRIDGE AT STA. 412+11.71 LT. LN. BRIDGE AT STA. 412+19.21 RT. LN. I-20 ACROSS CLEAR CREEK PROJECT IR-020-1(123) PROJECT 54-0020-01-123-10 WARREN - HINDS COUNTY			
DESIGNED <i>TVA</i>		CHECKED <i>BRB</i>	
DATE		DATE 5/10/04	
WORKING NUMBER		SHEET NUMBER	
A3 OF 34		468	

14801-RT.LN.



NOTE: Transition Shoulder From 8'-0" To 8'-9"  
And From 12'-0" To 14'-9" At Bridge Ends.

**FOUNDATION PLAN**  
Scale: 1" = 30'-0"

NOTE: When Prestressed Concrete Piles Are In Conflict With Existing Substructure It Shall Be The Responsibility Of The Contractor For Removal Of Existing Substructure.

<b>MISSISSIPPI STATE HIGHWAY DEPARTMENT</b> BRIDGE AT STA. 412 + 11.71 LT. LN. BRIDGE AT STA. 412 + 19.21 RT. LN. <b>FOUNDATION PLAN</b> PROJECT IR-020-1(123) PROJECT 54-0020-01-123-10 WARREN - HINDS COUNTY		WORKING NUMBER <b>A4 of 34</b> SHEET NUMBER <b>469</b>
DESIGNED TJA CHECKED RRB DATE 5/10/91	DETAILED T.J.C. TRACED W.L.D. DATE 5/10/91	

14800-LT.LN. 14801-RT.LN.