BOARD OF SUPERVISORS

MADISON COUNTY, MISSISSIPPI

Department of Engineering Tim Bryan, P.E., County Engineer 3137 South Liberty Street, Canton, MS 39046 Office (601) 790-2525 FAX (601) 859-3430

MEMORANDUM

September 1, 2020

To: Sheila Jones, Supervisor, District I Trey Baxter, Supervisor, District II Gerald Steen, Supervisor, District III Karl Banks, Supervisor, District IV Paul Griffin, Supervisor, District V

From: Tim Bryan, P.E., PTOE County Engineer

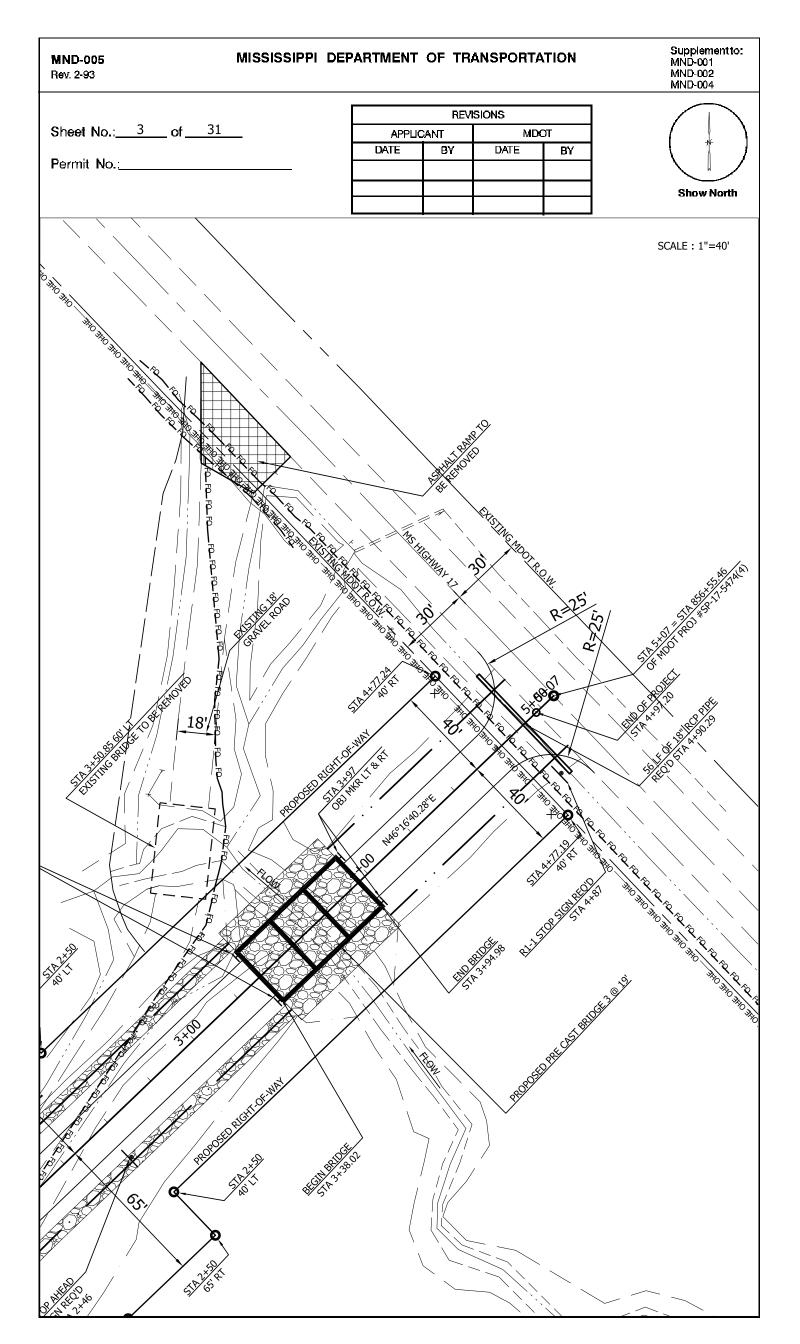
Re: MDOT Right-of-Way Permit Simpson Road Bridge Replacement, LSBP-45(22)

The Engineering Department recommends that the Board agree to submit to MDOT the attached permit to perform work on MDOT right-of-way and authorize the Board President to sign said permit. This permit is to relocate the intersection of Simpson Road at Highway 17 approximately 150 ft south of its current location in conjunction with the replacement of a bridge on Simpson Road just west of Highway 17.

GERALD STEEN District Three KARL BANKS District Four PAUL GRIFFIN District Five

MND-00	-		PERMIT NO.
Rev. 20	11	Applicant Contact Name	
			>#:
	MISSISSIPPI DEPART APPLICATION FOR PERMIT CONNECTION TO STATE HIGH GIVEN IN CONSIDE	T TO CONSTRUCT DR	IVEWAY WITH NT OF APPLICANT
(Please	e Print) Name: Company (or) Individual	Address:	Street/Route
	Company (or) individual		
City	County	State	Zip Code
herein	called the applicant, who at the present time proposes		
	n		
	e (decimal degrees) County, Missis		
drivewa hereby Mississ (a) Th in (b) Th sa de Mi (c) Sa Mi fac Tra ch (c) Sa Mi fac Tra ch (c) Sa Mi fac Tra ch (c) Sa Mi fac Tra ch (c) Sa Mi fac (c) Sa Mi fac (c) Sa (c) Sa (c	ortation, the duly authorized agent for the Mississip ay mentioned above and shown herein below and in or agree to construct such facility in accordance with sippi transportation Commission and do also further age at the Mississippi Department of Transportation does or upon said highway or right-of-way appurtenant there is the said Mississippi Department of Transportation id driveway or other facility therein described or refe ems it necessary. All expense of said removal or ssissippi Department of Transportation, is to be in now id applicant hereby expressly agrees for himself, hi- ssissippi Department of Transportation, he will without cility herein described all in accordance with the te ansportation. It being distinctly understood that said to object of said Mississippi Department of Transportation, partment of Transportation after agreement with said a Mississippi Department of Transportation, if this p asonable effort to avoid the necessity of requesting that e plan of proposed construction set out below is inco- ly copied out herein in words and figures. s agreed that this permit is void if all work shown on er date of approval. s agreed that any gas pumps at this location will be so hind the right of way line. s distinctly understood that no cars or vehicles will be to culverts shall comply with the Department's "T RSION. (Reference: MDOT Website 'www.goMDOT adwalls, grates, etc. shall be designed, detailed and esign Manuals and Standard Drawings and Mississippi e applicant is responsible for any conflicts with utiliti- lities for said conflicts and for any necessary alteration by work done by the applicant on the highway right-of- partment of Transportation without payment thereof. copy of the approved plan is to be kept at the site of th is agreed that no trees or shrubs on the highway right-of- partment of Transportation without payment thereof. copy of the approved plan is to be kept at the site of th is agreed that no trees or shrubs on the highway righ- of-sportment of this work or facility exc so	consideration of a permit b the plan shown herein pree, with full understandin not purport to grant to sai- eto. may at any time require- erred to, as and when sa- reconstruction is to be vay liable. s heirs, assigns and lega- but delay either reconstru- rms of the request so m hat any other location for a but said new location wi applicant or is successors bermit is granted and act at the herein mentioned fac- prorated herein by refere this plan is not completed b placed that they or their parked or serviced within the MDOT PIPE CULVERT f.com'). Pipe headwalls, constructed in accordance Standard Specifications f es on the highway right-ous. way shall be at his sole ex- le work at all times during ht-of-way will be cut, trim- cept as shown on the plan- ly dressed and grassed	being granted to me for such construction, do below and the rules and regulations of the g of the terms thereof, to all of the following: d applicant any right, title, claim or easement and compel the removal or reconstruction of borne exclusively by the applicant and the ll representatives, that upon request of said facility or move to another location the bade by the said Mississippi Department of said facility or driveway shall be primarily the ll be made or designated by said Mississippi , if possible. It is understood and agreed that ted upon by the said applicant, will use all cility be removed, altered or reconstructed. nce and made a part of this application as if in accordance with this plan within one year island or islands will be a minimum of 12 feet the limits of the highway right of way. MATERIAL DESIGN CRITERIA", LATEST box culverts, bridges, inlets, junction boxes, with the Department's Roadway and Bridge or Road and Bridge Construction. f-way and is to secure permission from said construction. med, or damaged during the process of the mate or damaged during the process of the damaged during the process of the mate or damaged during the process of the damaged during the process of the mate or damaged during the process of the damaged during the process of the mate or damaged during the process of the damaged during the process of the mate or damaged during the process of the damaged during the procese of the damaged
			Page 1 of <u>31</u>

MND Rev.					P	ERMIT NO	
(0)	The applicant accepts the res and maintain traffic control de Streets and Highways (MUTC application if special traffic cor The applicant does hereby co the Mississippi Department of costs and reasonable attorne agents or employees in the co	vices, if required, D), Current Edition ntrol details are revenant and agree Transportation fing's fees, proximation fing	in accordance on as a minim quired. to indemnify rom and again ttely resulting	e with Part 6 of the um. The applicar and hold harmless nst any claims, ac from acts or omi	e Manual ht shall at s the Miss ctions, sui ssions of	On Uniform Traffic ttach a special traf sissippi Transporta its, causes or dem f the applicant, or	Control Devices For fic control plan to the tion Commission and ands, including court
Witn	ess my signature this	_ day of		2	0	, which is applicab	le to sheets <u>1</u>
throu	igh of permit numbe	er					
			_	0		A 10 1	
			Dur		-	Applicant	
			Ву:	Pr	inted Nam	e and Title	
	TE OF MISSISSIPPI INTY OF						
Pers	onally appeared before me, th	e undersigned au	ithority.				whose
				Printed Nam	e of Applic	cant	
nam	es(s) subscribed to th	is instrument as t	he	Title of	Applicant		of
			w			vorn acknowledge	d that they
	Name of Company suted the above agreement as sin expressed and on the date	the act and deed	of the said ap	plicant for the pur	pose and	l consideration and	in the capacity
Give	n under my hand and seal of c	office this the	day of			20	
My C	Commission Expires:		_		Signature	e of Notary Officer	
		Field Inspection	Ву:				20
		Approved:	MISSISSIP	PI DEPARTMENT	f of tra	NSPORTATION	
			De	puty Executive Direct	ctor/Chief	Engineer	
		Ву:					20
		Installation Inspe	ction By:				20
							Page <u>2</u> of <u>31</u>



LENGTH DATA

EXCEPTIONS NONE EQUATIONS

NONE

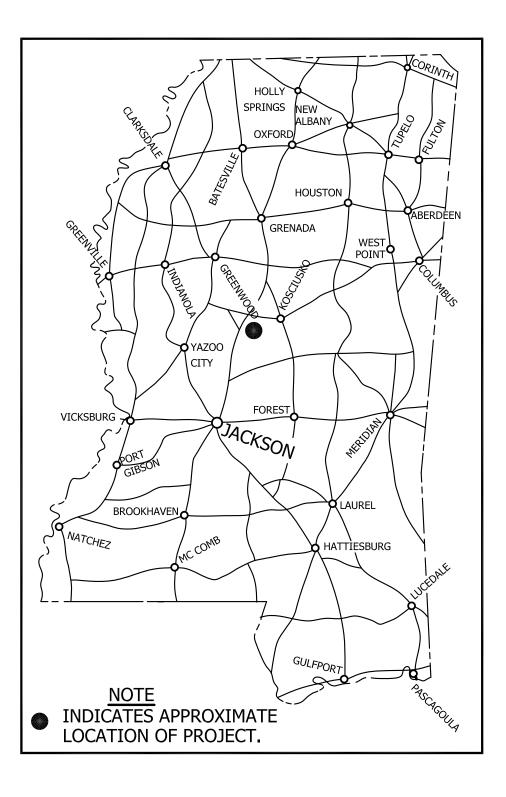
STATE OF MISSISSIPPI OFFICE OF STATE AID ROAD CONSTRUCTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE OF PROPOSED COUNTY HIGHWAY LOCAL SYSTEM BRIDGE PROJECT NO. LSBP-45(22) SIMPSON ROAD MADISON COUNTY SCALE: 1" = 30' PLAN HORIZ: 1" = 30' VERT: 1" = 5' PROFILE 1" = 5' TITLE 1" = 3000' STA. 0+41.63 **BEGINNING OF PROJECT** R 4 E R 3 E ATTALA C JUCK Lake R 3 E J24 20 23 19 21 And a OLD $\mathcal{D}^{7} + \mathsf{RD}.$ RD. Ζ 30 29 12 26 12 28 REF ′33 Blue Hole [f]____ Cameron Cree Ζ Z 11 Creek AND 9 12 R 3 E R 4 E

0.076 MI. LENGTH OF ROADWAY 398.61 FT. 0.011 MI. LENGTH OF BRIDGES 56.96 FT. 0.087 MI. LENGTH OF PROJECT (NET) LENGTH OF EXCEPTIONS 0.000 MI. 000.00 FT. 0.087 MI. LENGTH OF PROJECT (GROSS)

BRIDGE NUMBER - SA45-0144 REPLACED WITH - SA45-A0144

STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION CURRENTLY APPROVED BY THE OFFICE OF STATE AID ROAD CONSTRUCTION OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION ARE MADE A PART HEREOF FULLY AND COMPLETELY AS IF ATTACHED HERETO, EXCEPT WHERE SUPERSEDED BY THE SPECIAL PROVISIONS, OR AMENDED BY REVISIONS.

LOCAL SYSTEM BRIDGE PROJECT NO. LSBP-45(22) MADISON COUNTY SHEET NO. 1



INDEX

FOR INDEX SEE SHEET NO. 2

STA. 4+97.20 END OF PROJECT

STA. 3+38.02 BRIDGE REQ'D. 3 @ 19' PRECAST CONCRETE SPANS 26'-6" CLEAR ROADWAY



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PREPARED BY	
John E. McKee, Jr.	06/26/2020
LSBP ENGINEER	DATE

OFFICE OF STATE AID ROAD CONSTRUCTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION APPROVED

STATE AID ENGINEER

DATE

LOCAL SYSTEM BRIDGE PROJECT NO. LSBP-45(22) MADISON COUNTY SHEET NO. 1

PAY ITEM NO.	PAY ITEM	TOTAL QUANTIT	Y
PAT ITEM NO.		PLAN FINA	
C 200 A	* * * * ROADWAY ITEMS * * *		
 S-200-A S-201-A	MOBILIZATION CLEARING AND GRUBBING	L.S. L.S.	LUMP S
S-201-A	REMOVAL OF PRECAST BRIDGE @ STA. 3+50.85 60'LT	1.0	UNI
S-202-D	REMOVAL OF ASPHALT (ALL DEPTHS)	116.0	SY
S-203-A	UNCLASSIFIED EXCAVATION (PM)	52.0	CU. Y
S-203-F	CHANNEL EXCAVATION (FM)	440.0	CU. \
S-203-H	EXCESS EXCAVATION (FM)	4257.0	CU. \
S-304-B	GRANULAR MATERIAL (CLASS 5)(GROUP C)	270.0	TO
S-304-D	CRUSHED STONE	96.6	TOI
S-603-C-A	18" REINFORCED CONCRETE PIPE, CLASS III	56.0	LF
S-617-A	RIGHT-OF-WAY MARKERS (TYPE II)	12.0	EAC
S-618-A	MAINTENANCE OF TRAFFIC	L.S.	LUMP
S-618-B	ADDITIONAL CONSTRUCTION SIGNS	0.0	SQ. F
S-630-A S-630-B	REFLECTORIZED TRAFFIC WARNING SIGN (ENCAPSULATED LENS) REFLECTORIZED TRAFFIC REGULATORY SIGN (ENCAPSULATED LENS)	1.0	EAC EAC
 S-630-C	REFLECTORIZED TRAFFIC OBJECT MARKER (ENCAPSULATED LENS) (TYPE 3)	4.0	EAC
	* * * * EROSION CONTROL ITEMS * * *		
901-S-212-A	AGRICULTURAL LIMESTONE	1.4	TO
S-212-B	COMMERCIAL FERTILIZER (13-13-13)	0.694	
S-212-F	AMMONIUM NITRATE	0.1	TO
 S-214-A S-215-A	SEEDING VEGETATIVE MATERIALS FOR MULCH	0.694	ACR TO
 S-233-A	TEMPORARY SILT FENCE (TYPE I)(AOS 0.15-0.84)	1800.0	
 S-235-A	TEMPORARY EROSION CHECKS	20.0	BAL
237-A	WATTLES, 12"	200.0	LF
S-304-D	CRUSHED STONE	10.0	TOI
S-815-A	LOOSE RIPRAP, 200 LB.	319.0	ТОІ
S-815-E	GEOTEXTILE UNDER RIPRAP (TYPE V) (AOS 0.21-0.43)	442.0	SQ. \
	* * * * BRIDGE ITEMS * * * *		
	PRECAST CONCRETE SPANS		
	STA. 3+38.02 3 @ 19'		
S-803-A	TEST PILE	2.0	EAC
S-803-B	CONVENTIONAL STATIC PILE LOAD TEST	0.0	EAC
S-803-C	14" PRESTRESSED CONCRETE PILING	450.0	LF
S-803-F	20" PREFORMED PILE HOLE	200.0	LF
 S-806-A	19' PRECAST CONCRETE SLAB UNIT, 3.5' INTERIOR	18.0	EAC
S-806-B S-806-H	19' PRECAST CONCRETE SLAB UNIT, CURB BEAM TYPE RAILING WITH CONCRETE POSTS	<u> </u>	EAC
S-806-I	29.0' PRECAST CONCRETE CAP, INTERMEDIATE UNIT, CONCRETE PILE	2.0	EAC
	29.0' PRECAST CONCRETE CAP, END UNIT, CONCRETE PILE	2.0	EAC
S-806-M	7.5' PRECAST CONCRETE WING	4.0	EAC
S-815-A	LOOSE RIPRAP, 300 LB.	397.0	TOI
S-815-E	GEOTEXTILE UNDER RIPRAP (TYPE V) (AOS 0.21-0.43)	457.0	SQ. \

BACKFILL OF PREFORMED PILE HOLE TO BE ABSORBED

(4) MISSISSIPPI DEPARTMENT OF TRANSPORTATION 2017 STANDARD SPECIFICATIONS

 $\widehat{(N)}$ CEMENTITIOUS MATERIAL EXPOSURE TO SULFATES IS NEGLIGIBLE.

5 SIZE 610

SHEET NO.	
1	TITLE SHEET
2	QUANTITY AND INDEX SHEET
2-A	TYPICAL SECTION SHEET
2-В	SCHEDULE SHEET
2-C	DETAIL SHEET
2-D	TRAFFIC CONTROL PLAN
Ι	BRIDGE LAYOUT SHEET
II	BRIDGE RIPRAP DETAIL SHEET
SA-TSP-1	TRAFFIC SIGN PLACEMENT
SA-RW-1	RIGHT OF WAY MARKERS
6314	TYPICAL INSTALLATION AND DETAIL
6351	TRAFFIC CONTROL PLAN WITH FLAG
6358	HIGHWAY SIGN AND BARRICADE DE
6101	TYPICAL TEMPORARY EROSION/SEDI
6102	DETAILS OF SEDIMENT BARRIER APP
6103	DETAILS OF SILT FENCE INSTALLATION
6104	DITCH CHECK STRUCTURES - TYPICA
6105	TEMPORARY EROSION, SEDIMENT AN
6106	DETAILS OF EROSION CONTROL WAT
6501	PIPE CULVERT INSTALLATION
PC-01-09	PRECAST CONCRETE SPANS FOR USE
PC-03-09	19' X 3.5' PRECAST CONCRETE SLAB
PC-11-09	PRECAST CONCRETE CAPS FOR USE V
PC-15-09	BEARING PAD & PLACEMENT DETAILS
PC-16-09	PRECAST ABUTMENT WINGWALL FOR
CP-01	14", 16", 18" & 20" PRESTRESSED CC
3	PLAN AND PROFILE SHEET

LSBP-45(22)

	MADISON COUNTY	SHEET NO.	2
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SHEET INDEX
TITLE
ILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS
GGER (ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)
ETAILS FOR CONSTRUCTION PROJECTS
DIMENT CONTROL MEASURES
PLICATIONS
ION
CAL APPLICATIONS AND DETAILS
AND WATER POLLUTION CONTROL FEATURES
ATTLE DITCH CHECK
SE WITH W-BEAM RAIL, 23'-0" ROADWAY, 24'-0" ROADWAY, 26'-6" ROADWAY
3 UNIT FOR USE WITH W-BEAM RAIL WITH CONCRETE POSTS
WITH 19 FT. & 31 FT. PRECAST CONCRETE SPANS & W-BEAM RAIL, 26'-6" ROADWAY
LS FOR USE WITH 23', 24', 26.5', 28' & 30' CLEAR ROADWAYS NORMAL AND 30° SKEW SPANS
OR USE WITH 19 FT. & 31 FT. PRECAST CONCRETE SPANS & W-BEAM RAIL, 23 FT., 24 FT. & 26.5 FT. ROADWAYS
CONCRETE PILES



PREPARED BY John E. McKee, Jr. LSBP ENGINEER

06/26/2020 DATE

QUANTITY AND INDEX SHEET LSBP-45(22) MADISON COUNTY SHEET NO. 2

RATES OF APPLICATION USED FOR ESTIMATING QUANTITIES

ITEM

Agricultural Limestone Commercial Fertilizer (13—13—13) Ammonium Nitrate

*Vegetative Materials For Mulch (Mar. 1 — Nov. 15)

*Vegetative Materials For Mulch (Nov. 15 - Mar. 1) 3.0 Tons / Acre Granular Material (Class 5, Group "C") Crushed Stone (Size 610)

RATE

2.0 Tons / Acre 1.0 Tons / Acre 200 Lbs / Acre 2.0 Tons / Acre 67.7 Tons / Sta. 1.8 Tons / Cu. Yd.

*<u>NOTES</u>:

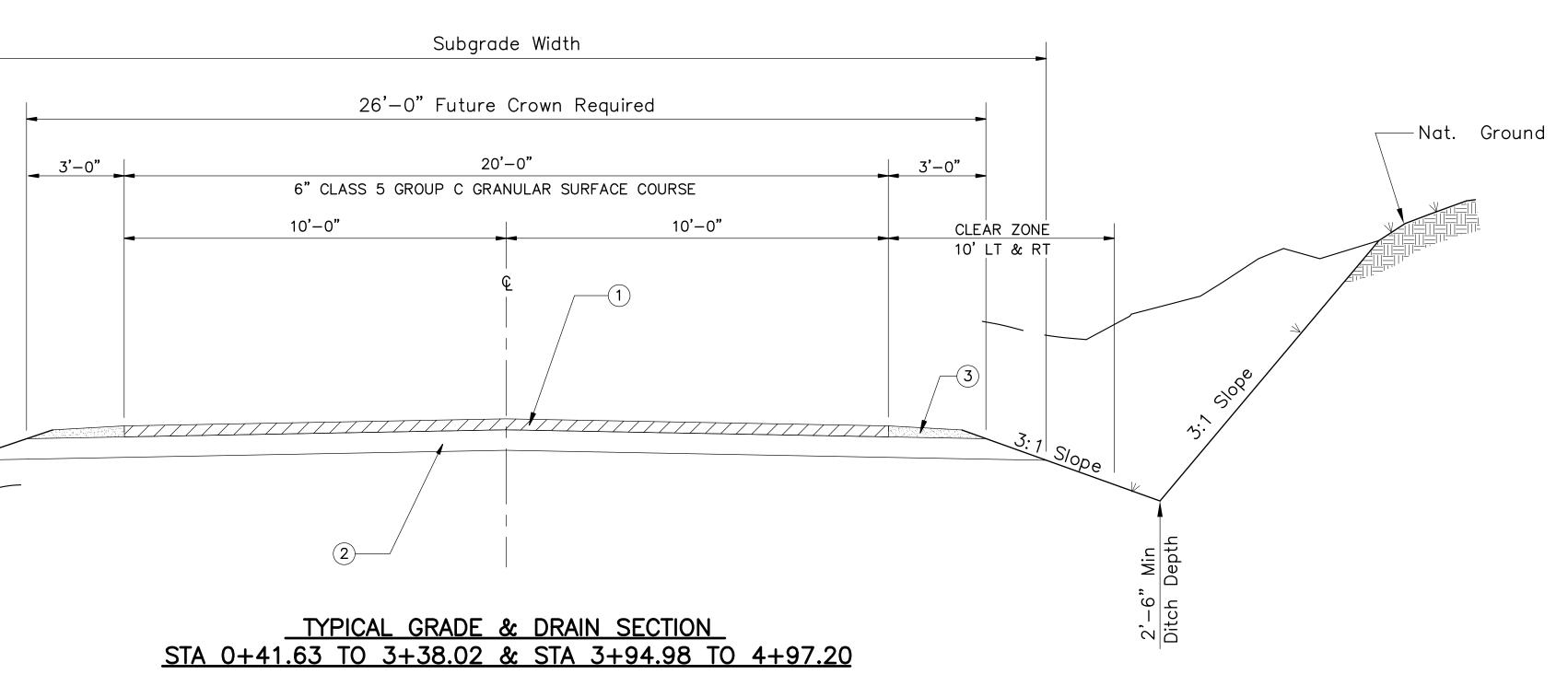
The Ammonium Nitrate Is To Be Applied After Grass Growth Is Established.

* This Rate Of Application Is To Be Used Per Seasonal Limitation Indicated. However, Plan Quantities For These Items Are Based On A Rate Of Application Of 3.0 Tons / Acre.

Nat.	Ground 3:1 Slope 3:1 Slope	
	TOE DITCH DETAIL	
	Req'd. Where Natural Ground Slopes Toward Embankment	

GENERAL NOTES

Erosion Control Measures To Be Applied On Indicated Area (<u>vvv</u>) As Per Seasonal Limitations.



N.T.S.

LSBP-45(22)

MADISON COUNTY SHEET NO. 2-A

- 6" And Variable Granular Material (Class 5, Group C) Surface Course Req'd
- ② Existing/Design Roadway Subgrade
- ③ Granular Material (Class 5, Group C) Req'd. At Shoulders

SIGNS REQ'D						
STATION	TYPE	RIPRAP REMARKS	SIDE			
W3-1	W3-1	STOP AHEAD	RT			
3+36	OM3-L	OBJECT MARKER	LT			
3+36	OM3-R	OBJECT MARKER	RT			
3+97	OM3-L	OBJECT MARKER	RT			
3+97	OM3-R	OBJECT MARKER	LT			
R1-1	R1-1	STOP	RT			

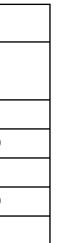
RIPRAP REQ'D					
AREA	RIPRAP (300 lb)	RIPRAP (200 lb)	FILTER FABRIC		
ROADWAY DITCHES (200 Ib)	0.0	297.0	342.0		
BRIDGE CHANNEL (300 lb)	397.0	0.0	457.0		
DITCH CHECKS (200 lb)	0.0	22.0	0.0		
TOTALS	397.0	319.0	799.0		
UNITS	TON	TON	S.Y.		

GRANULAR MATERIAL REQ'D		
AREA	AMOUNT	
ROADWAY (SURFACE)	222.0	
SHOULDERS	48.0	
TOTALS	270.0	
UNITS	TON	

ASPHALT REMOVAL F	REQ'D
LOCATION	AREA
STA 4+88.61	116.0
TOTALS	116.0
UNITS	SY

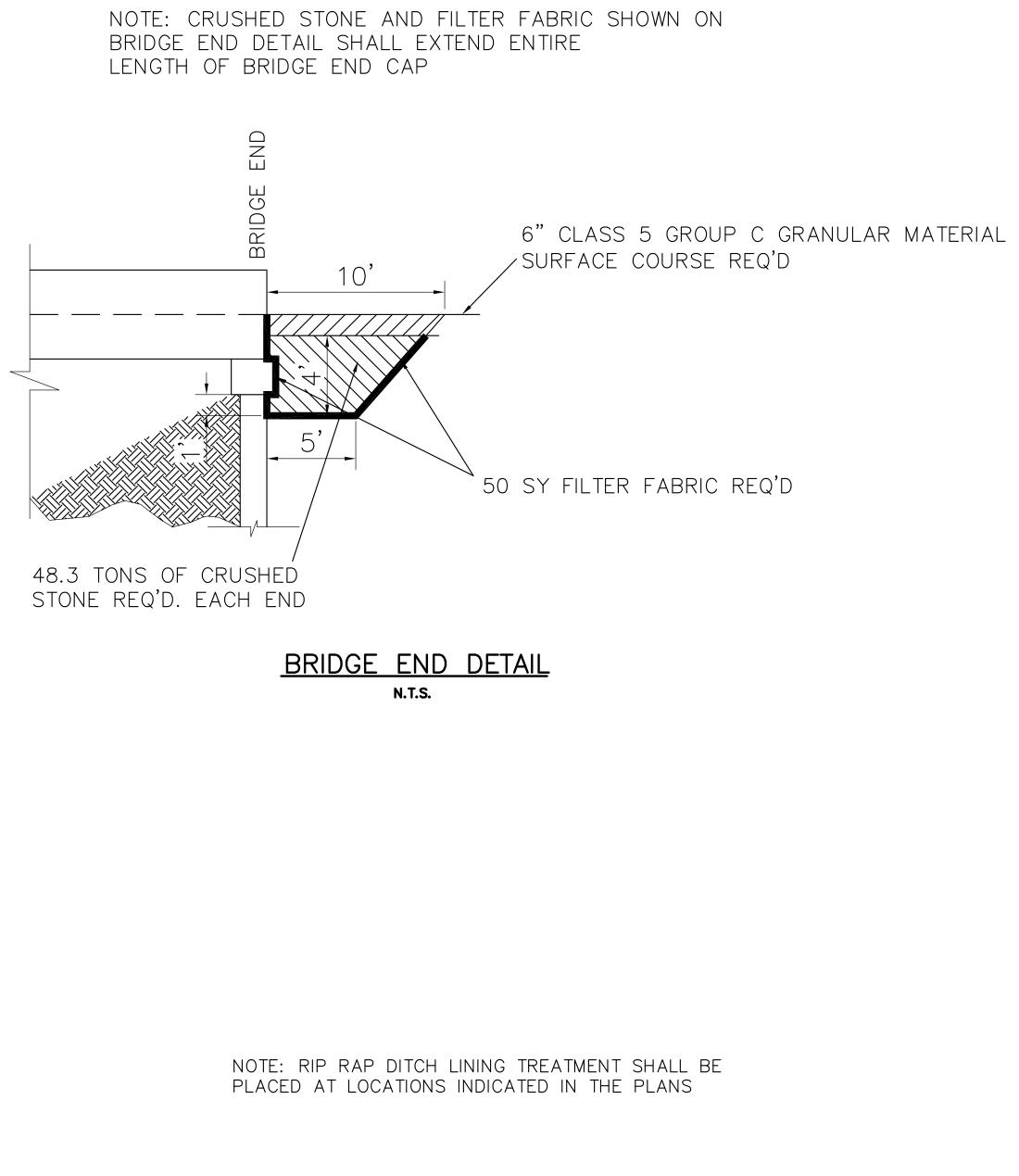
CRUSHED STONE REQ'D							
AREA	610 STONE	FILTER FABRIC					
BRIDGE ENDS	96.6	100.0					
DITCH CHECKS	10.0	0.0					
TOTALS	106.6	100.0					
UNITS	TON	S.Y.					

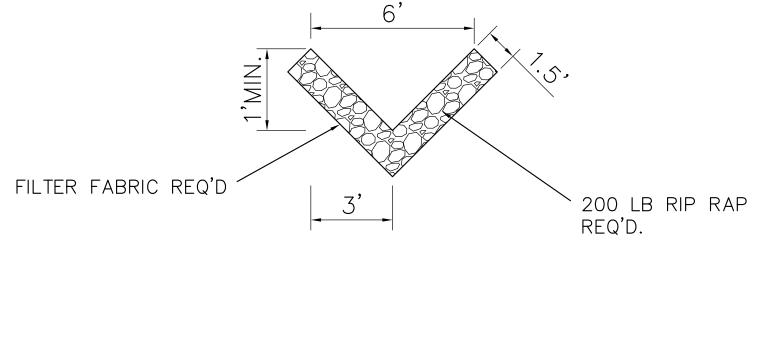
LSBP-45(22) MADISON COUNTY SHEET NO. 2-B



SCHEDULE SHEET LSBP-45(22) - MADISON COUNTY SHEET NO. 2-B









LSBP-45(22)

MADISON COUNTY SHEET NO. 2-C

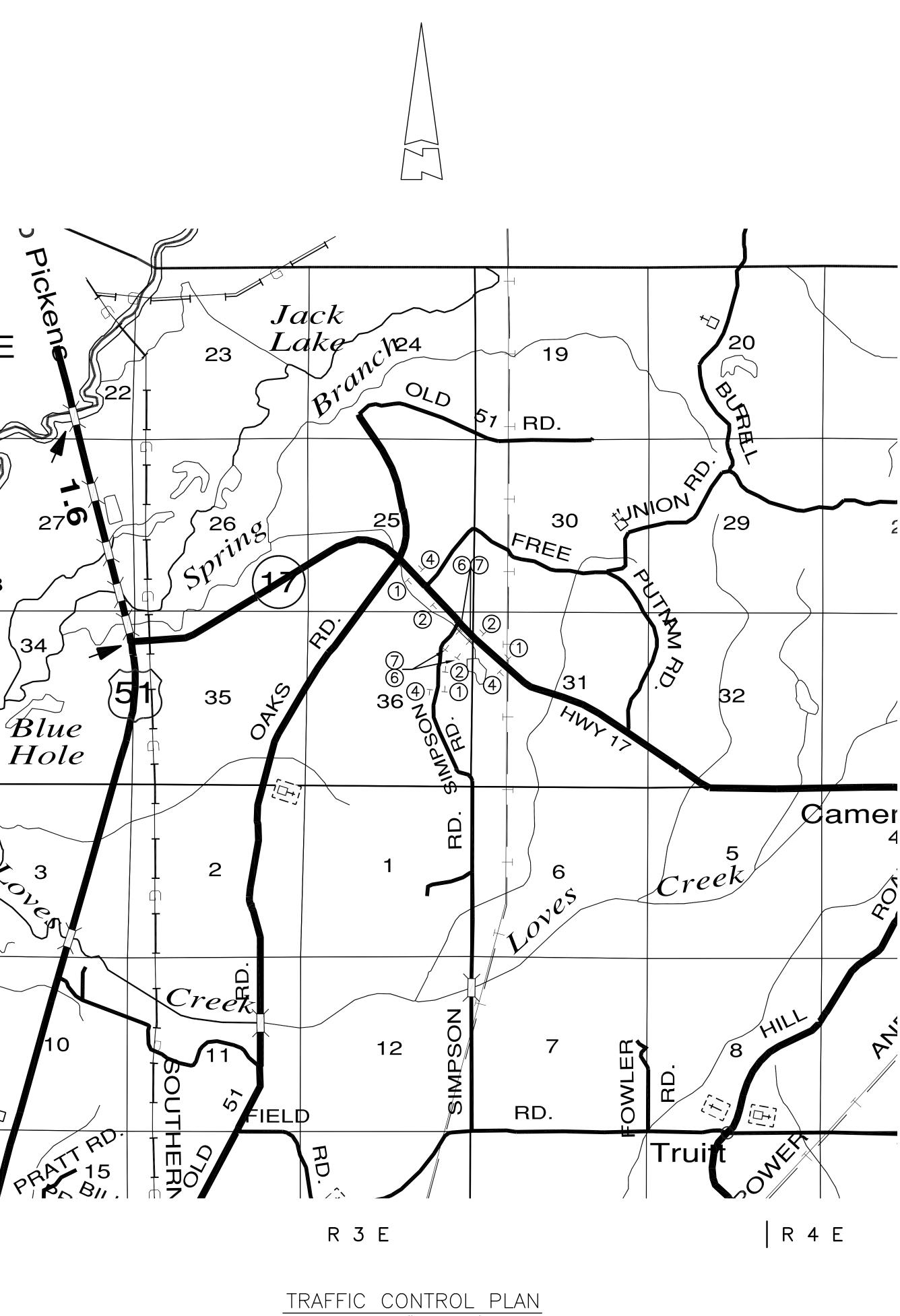
DETAIL SHEET LSBP-45(22) MADISON COUNTY SHEET NO. 2-C

	SIGN SCHEDULE							
SIGN	IGN TYPE DESCRIPTION							
1	1 W20-1 ROAD WORK AHEAD							
2	W20-1	ROAD WORK 500 FT						
4	G20-2	END ROADWORK						
(6)	R11–2a	ROAD CLOSED						
$\overline{7}$	7 TYPE III BARRICADE ACROSS ENTIRE ROADWAY							

7 3 E

* ORANGE AND BLACK 4" HIGH LETTERS

*_*28 3 ~Or $+\Box$ <u>[</u>†]



SCALE: 1" = 2000'

LSBP-45(22)

MADISON COUNTY SHEET NO. 2-D

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

2. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ETC., TO SAFELY CHANNEL OR DIRECT TRAFFIC. WHEN NECESSARY, FLAGGERS SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES (FLAGGER AHEAD SIGN REQUIRED IN ADVANCE OF FLAGGERS EXCEPT DURING BRIEF PERIODS OR EMERGENCY SITUATIONS.)

3. THESE ARE MINIMUM REQUIREMENTS AND IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO MAINTAIN TRAFFIC IN A SAFE MANNER.

4. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND REMOVED IMMEDIATELY THEREAFTER.

5. SEE STANDARD DRAWINGS 6358 AND SA-TSP-1 FOR CORRECT PLACEMENT AND INSTALLATION OF BARRICADES AND SIGNS.

6. PAY FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES WILL BE MADE UNDER PAY ITEM NOS. S-618-A AND S-618-B.

7. CONTRACTOR SHALL INSTALL ADVANCE WARNING SIGNS SUCH AS WATCH FOR TRUCKS, TRUCKS TURNING, TRUCKS CROSSING, ETC., AND PLACE FLAGGERS AS DIRECTED BY THE COUNTY ENGINEER ALONG PUBLIC ROADS ON EACH SIDE OF BORROW PIT ENTRANCE OR CROSSING OF PUBLIC ROADS.

8. SEE SPECIAL PROVISION NO. 901-S-618-1 FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION NOTES:

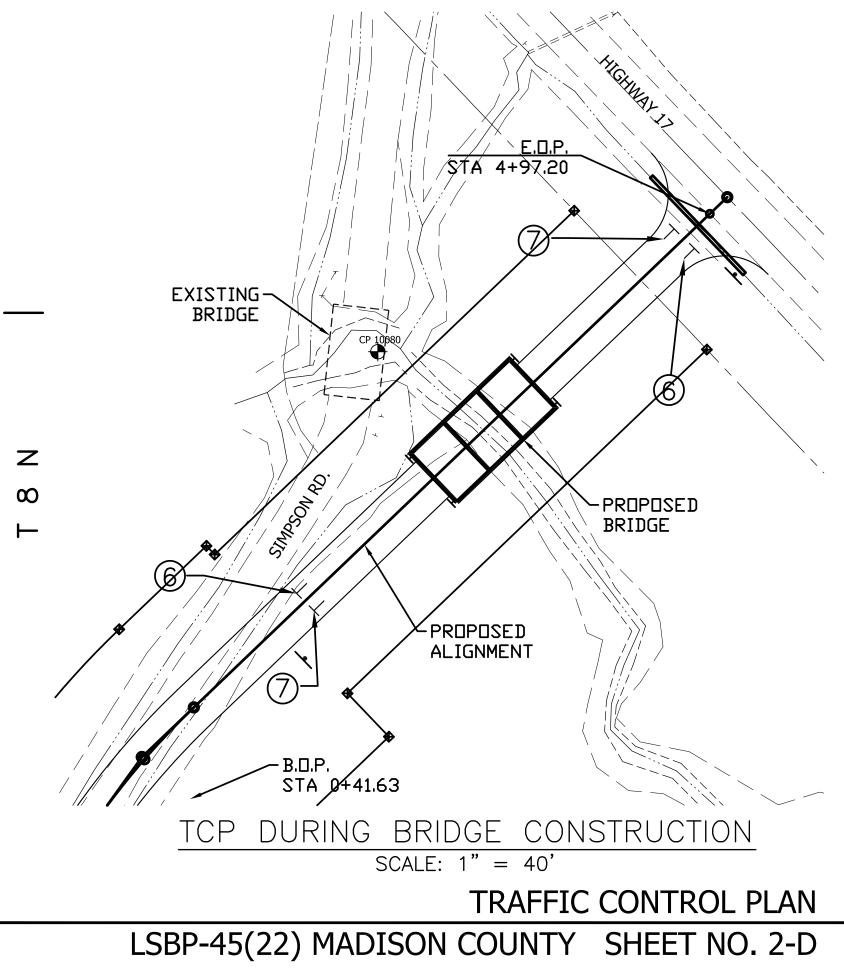
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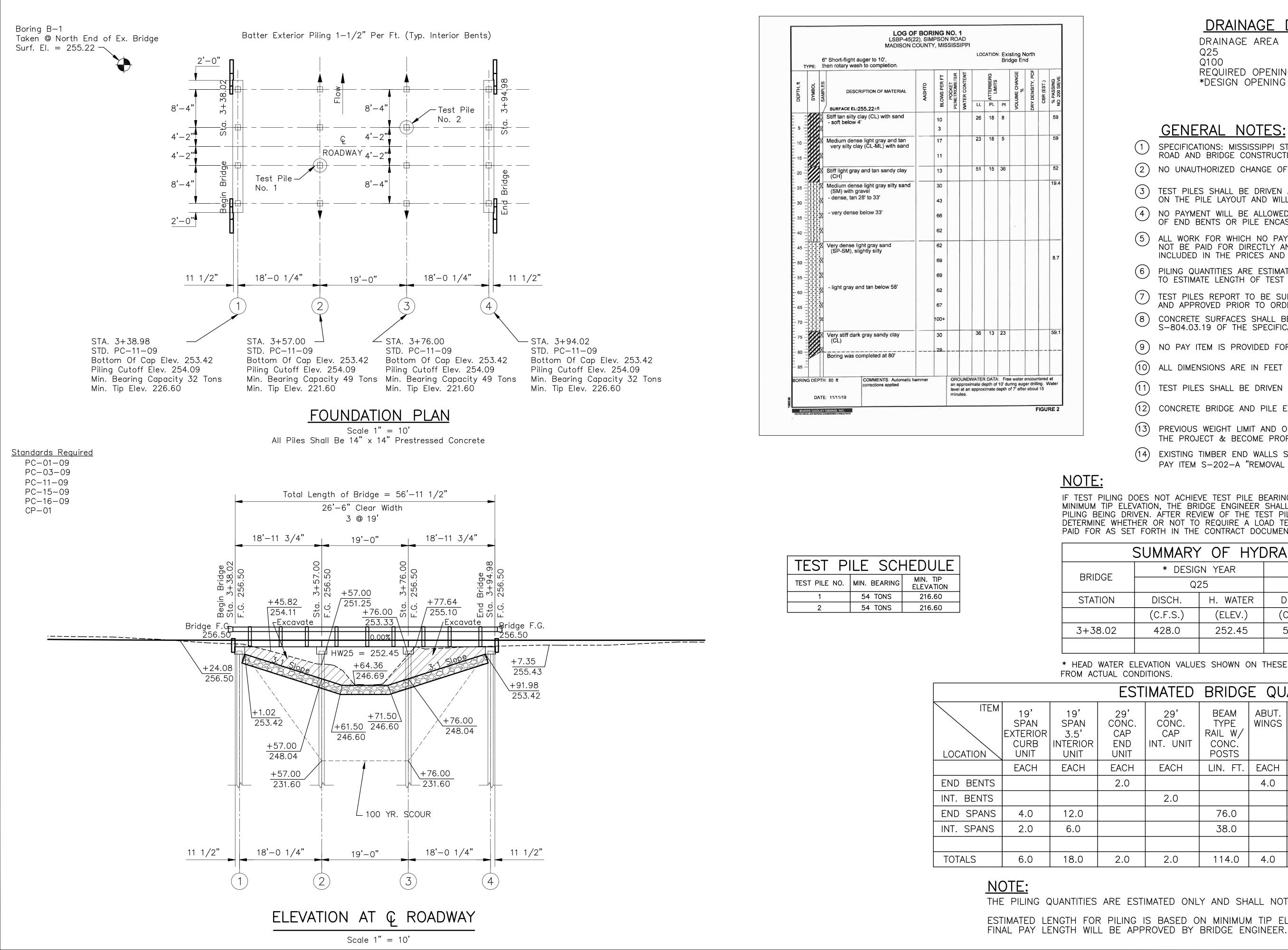
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1. THROUGH TRAFFIC WILL BE DETOURED AROUND THE PROJECT. LOCAL TRAFFIC WILL HAVE ACCESS AT ALL TIMES FROM BOTH ENDS OF THE PROJECT.

2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SIGNING AND MAINTENANCE OF THE SIGNING AS SHOWN ON SHEET 2-D.

3. CONTRACTOR SHALL PLACE THE "ROAD CLOSED" AND TYPE III BARRICADES ACROSS THE PROPOSED ROADWAY DURING CONSTRUCTION OF NEW BRIDGE AND ALIGNMENT. ONCE NEW BRIDGE AND ROADWAY ARE READY FOR THE TRAFFIC TO BE SWAPPED, CONTRACTOR SHALL MOVE THE SIGNS AND BARRICADES TO THE OLD ROADWAY WHILE GRADING AND BRIDGE REMOVAL OCCUR.





			ESTIMATED BRIDGE QUANTITIES										
LOCATION	RIOR 3.5' RB INTERIO	CAP	29' CONC. CAP INT. UNIT	BEAM TYPE RAIL W/ CONC. POSTS	ABUT. WINGS	14" CONCRETE PILES	TEST PILES	LOOSE RIPRAP (300#)	FILTER FABRIC	20" PREFORMED PILE HOLES			
EA	CH EACH	EACH	EACH	LIN. FT.	EACH	LIN. FT.	EACH	TONS	SQ.YD.	LIN FT			
END BENTS		2.0			4.0	240.0		397.0	457.0	100.0			
INT. BENTS			2.0			210.0	2.0			100.0			
END SPANS 4.	.0 12.0			76.0									
INT. SPANS 2.	.0 6.0			38.0									
TOTALS 6.	.0 18.0	2.0	2.0	114.0	4.0	450.0	2.0	397.0	457.0	200.0			

LSBP-45(22)

MADISON COUNTY SHEET NO.

DRAINAGE DESIGN DATA

DRAINAGE AREA	A =	0.39	SQ. MI.
Q25	=	428.0	C.F.S.
Q100	=	551.0	C.F.S.
REQUIRED OPENING	=	85.60	SQ. FT.
*DESIGN OPENING	=	161.0	SQ. FT.

GENERAL NOTES:

- (1)SPECIFICATIONS: MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION. CURRENT EDITION.
- (2)NO UNAUTHORIZED CHANGE OF PLANS WILL BE PERMITTED.
- (3)TEST PILES SHALL BE DRIVEN AS PERMANENT PILES AT LOCATIONS SHOWN ON THE PILE LAYOUT AND WILL BE PAID FOR AS TEST PILES ONLY.
- NO PAYMENT WILL BE ALLOWED FOR EXCAVATION INCIDENTAL TO CONSTRUCTION OF END BENTS OR PILE ENCASEMENTS. (4)
- (5) ALL WORK FOR WHICH NO PAY ITEMS ARE PROVIDED IN THE PROPOSAL WILL NOT BE PAID FOR DIRECTLY AND COMPENSATION THEREFOR WILL BE CONSIDERED INCLUDED IN THE PRICES AND PAYMENTS FOR BID ITEMS.
- (6) PILING QUANTITIES ARE ESTIMATED ONLY AND SHALL NOT BE USED TO ESTIMATE LENGTH OF TEST PILE.
- (7)TEST PILES REPORT TO BE SUBMITTED TO THE OFFICE OF STATE AID AND APPROVED PRIOR TO ORDERING PERMANENT PILE LENGTHS.
- 8 CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH SECTION S-804.03.19 OF THE SPECIFICATIONS.
- (9)NO PAY ITEM IS PROVIDED FOR FOUNDATION EXCAVATION FOR BRIDGE.
- (10)ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- TEST PILES SHALL BE DRIVEN WITHOUT PRE-FORMED HOLE.
- (12)CONCRETE BRIDGE AND PILE EXPOSURE TO SULFATES IS NEGLIGIBLE.
- (13) PREVIOUS WEIGHT LIMIT AND OBJECT MARKER SIGNS TO BE REMOVED FROM THE PROJECT & BECOME PROPERTY OF THE CONTRACTOR.
- (14)EXISTING TIMBER END WALLS SHALL BE REMOVED BY CONTRACTOR UNDER PAY ITEM S-202-A "REMOVAL OF OBSTRUCTIONS" AND DISPOSED OF OFFSITE.

NOTE:

IF TEST PILING DOES NOT ACHIEVE TEST PILE BEARING WITHIN 10.0 FEET BELOW SPECIFIED TEST PILE MINIMUM TIP ELEVATION, THE BRIDGE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY FUTHER TEST PILING BEING DRIVEN. AFTER REVIEW OF THE TEST PILE REPORT, THE BRIDGE ENGINEER WILL THEN DETERMINE WHETHER OR NOT TO REQUIRE A LOAD TEST. LOAD TEST, WHEN REQUIRED, WILL BE PAID FOR AS SET FORTH IN THE CONTRACT DOCUMENTS FOR THIS PROJECT.

SUMMARY OF HYDRAULIC DESIGN DATA

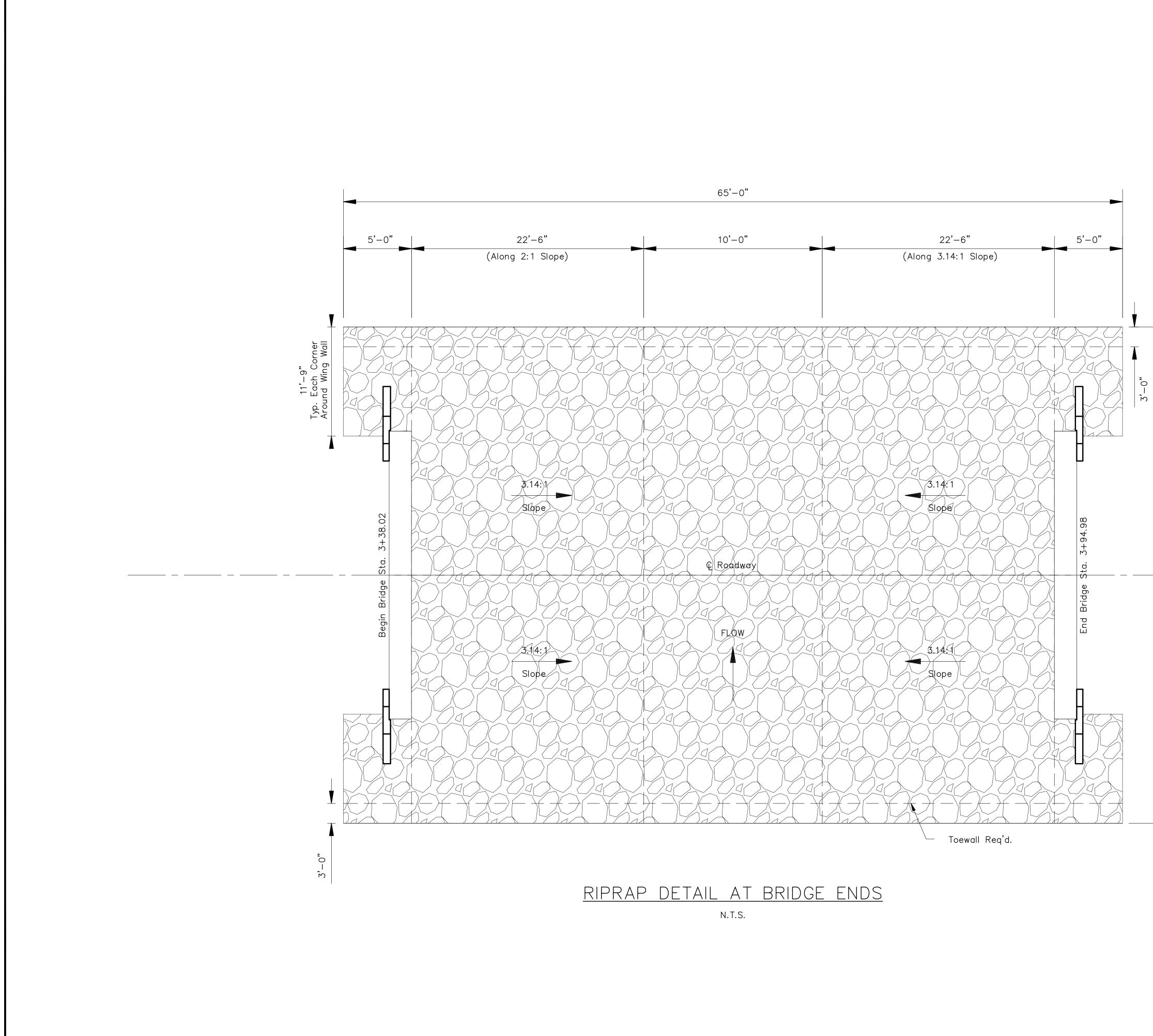
BI	BRIDGE	* DESIGN YEAR Q25		* DESIGN YEAR Q100		FLOOD OF RECORD	
	DRIDGE					FLOOD OF	RECORD
	STATION	DISCH.	H. WATER	DISCH.	H. WATER	DISCH.	H. WATER
		(C.F.S.)	(ELEV.)	(C.F.S.)	(ELEV.)	(C.F.S.)	(ELEV.)
	3+38.02	428.0	252.45	551.0	NA	NA	NA

* HEAD WATER ELEVATION VALUES SHOWN ON THESE PLANS ARE THEORETICAL AND MAY VARY FROM ACTUAL CONDITIONS.

THE PILING QUANTITIES ARE ESTIMATED ONLY AND SHALL NOT BE USED TO ESTIMATE LENGTH OF TEST PILES. ESTIMATED LENGTH FOR PILING IS BASED ON MINIMUM TIP ELEVATIONS.

BRIDGE LAYOUT SHEET

LSBP-45(22) MADISON COUNTY SHEET NO. I



LSBP-45(22)

MADISON COUNTY SHEET NO. II

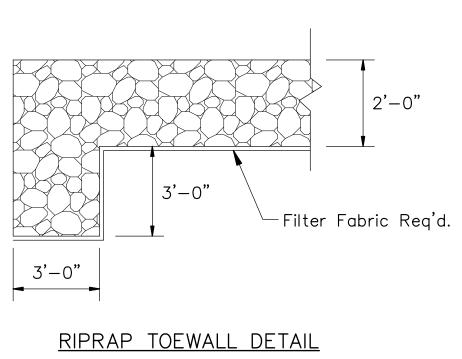
Quantities

397 Tons 300 lb. Riprap Req'd. 457 Sq. Yds. Filter Fabric Req'd.

NOTE

Ô

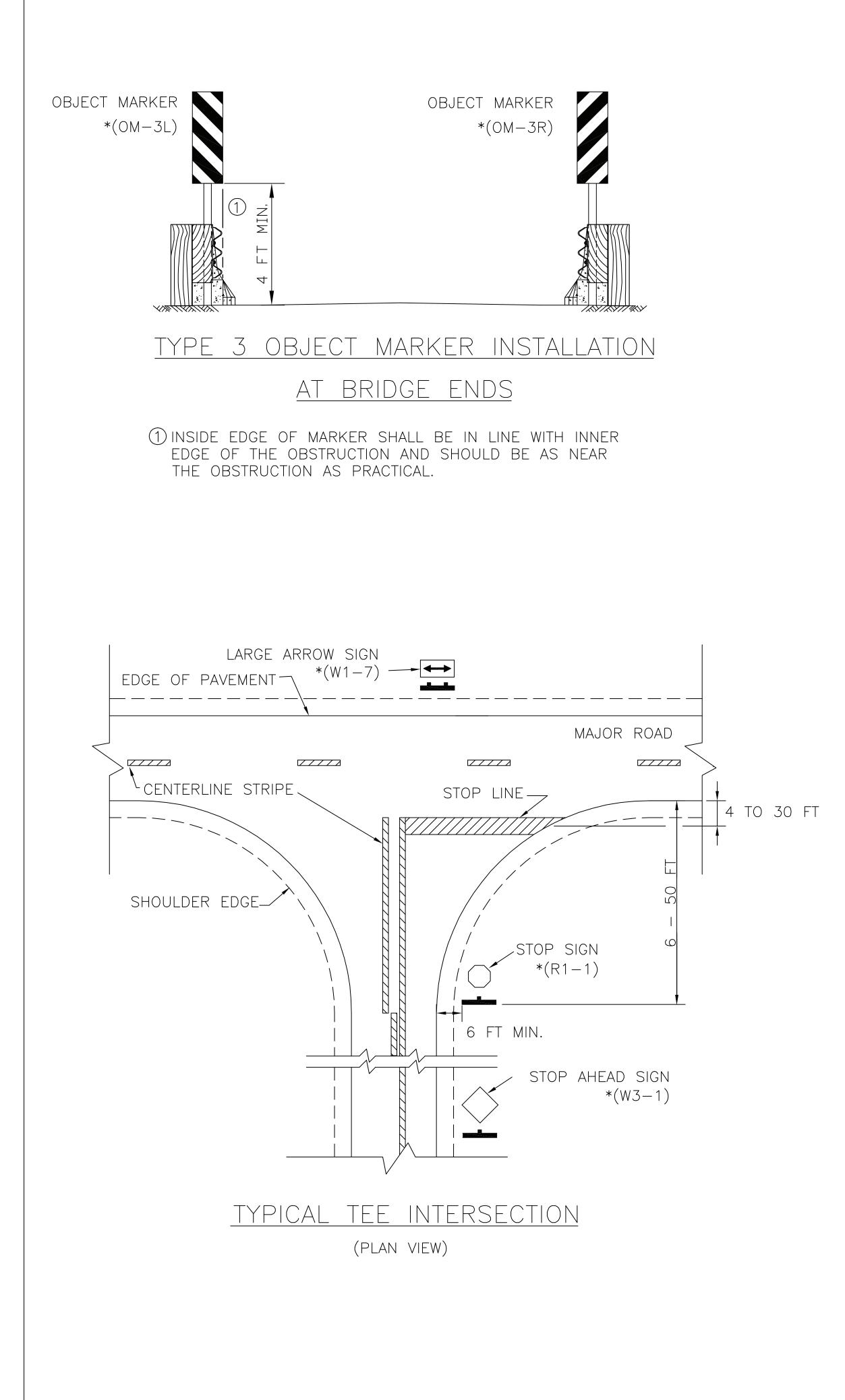
Min. 3'-0" Riprap Toewall At Upstream And Downstream Req'd.

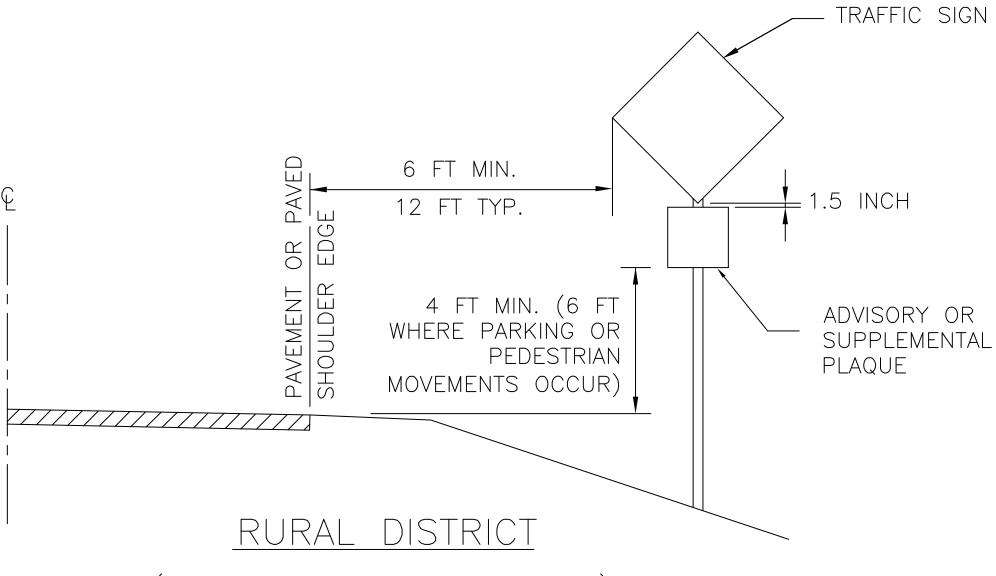


N.T.S.

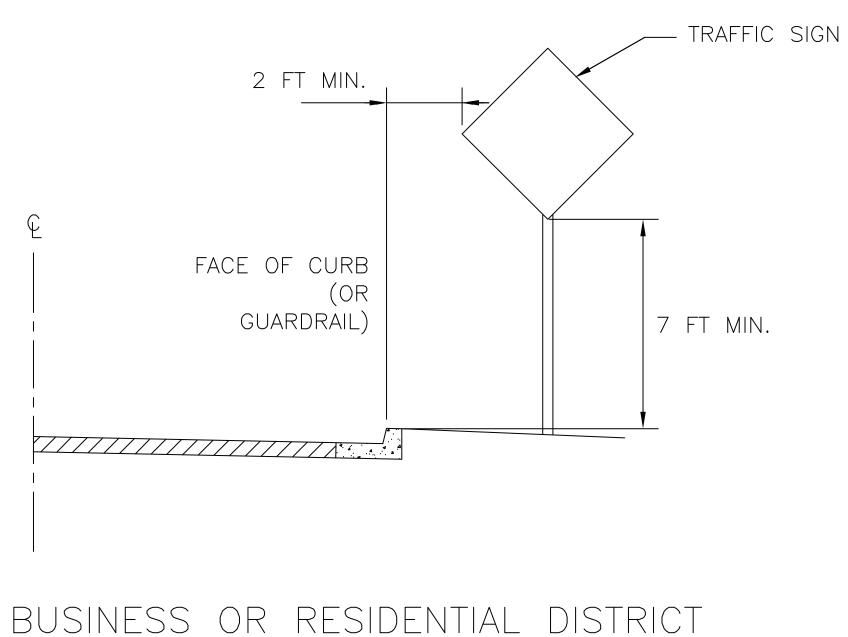
BRIDGE RIPRAP DETAIL SHEET

LSBP-45(22) MADISON COUNTY SHEET NO. II

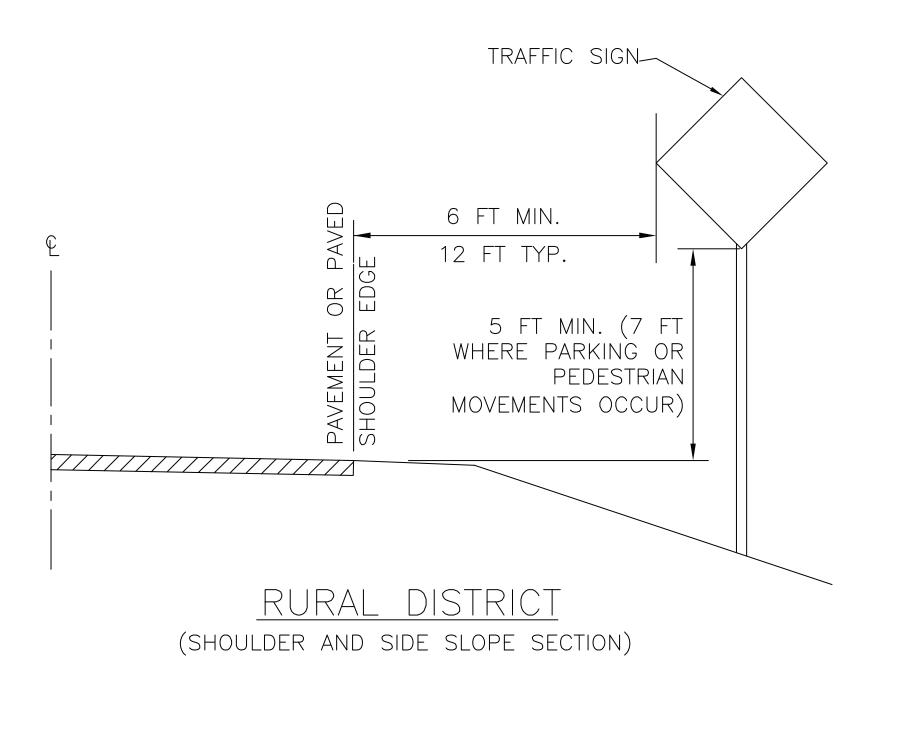








(CURB & GUTTER SECTION)



NOTES:

SIGN SIZE SHALL BE THAT DESIGNATED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR CONVENTIONAL ROADS.

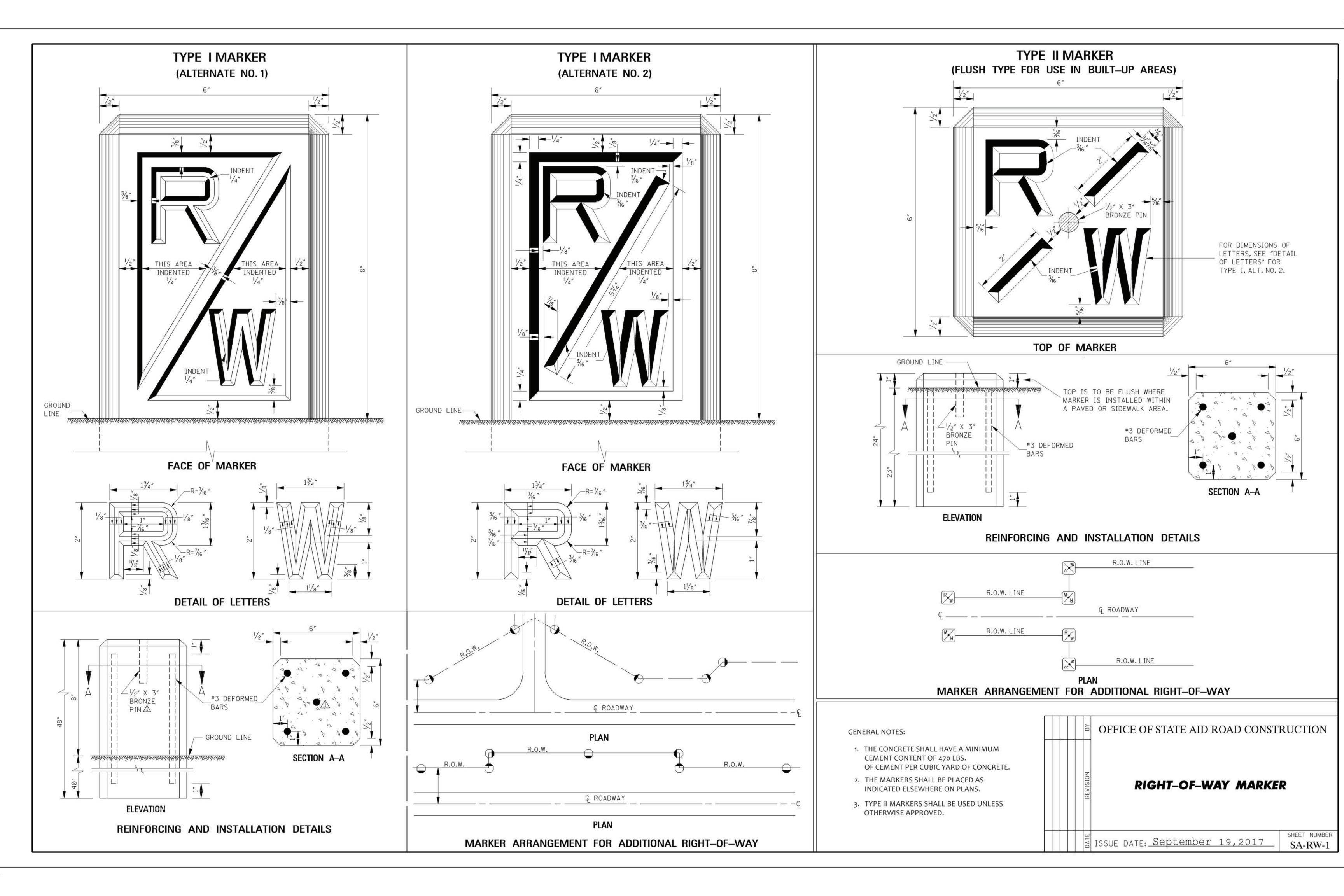
THE 6-FT LATERAL OFFSET SHOWN FOR RURAL ROADS MAY BE REDUCED TO NO LESS THAN 2 FT ON LOW-VOLUME ROADS (ADT <400) IF ROADSIDE FEATURES SUCH AS TERRAIN, SHRUBBERY, AND/OR TREES PREVENT NORMAL INSTALLATION.

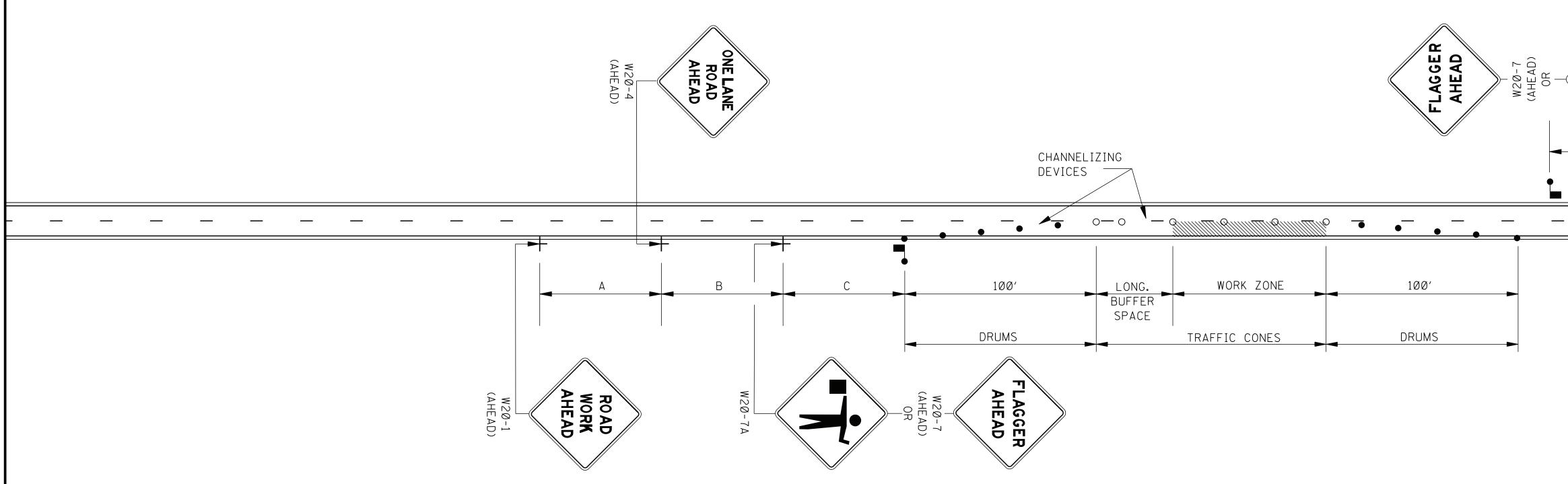
STOP SIGNS *(R1-1) SHOULD BE LOCATED 6 FT TO 50 FT FROM THE INTERSECTING PAVEMENT EDGE AND AS CLOSE AS PRACTICAL TO THE INTERSECTION WHILE PROVIDING MAXIMUM VISIBILITY. IF STOP SIGN VISIBILITY IS RESTRICTED, A STOP AHEAD SIGN SHALL BE INSTALLED IN ADVANCE OF THE STOP SIGN. SEE MUTCD.

POSTS FOR TRAFFIC SIGNS SHALL BE EITHER 4"X4" S4S TREATED TIMBER, OR STEEL.

*SIGN TYPE DESIGNATION REFERS TO THE MUTCD.

	ВY	OFFICE OF STATE AID ROAD CONSTRUCTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION
	REVISION	TRAFFIC SIGN PLACEMENT
	DATE	by: date: JBM NOVEMBER 16, 2004 SA-TSP-1





GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE. FLAGGER STATIONS SHALL BE LOCATED SUCH THAT APPROACHING VEHICLES WILL HAVE SUFFICIENT DISTANCE TO STOP. VALUES IN STOPPING SIGHT DISTANCE COLUMN MAY BE USED AS A MINIMUM FOR THIS DISTANCE.

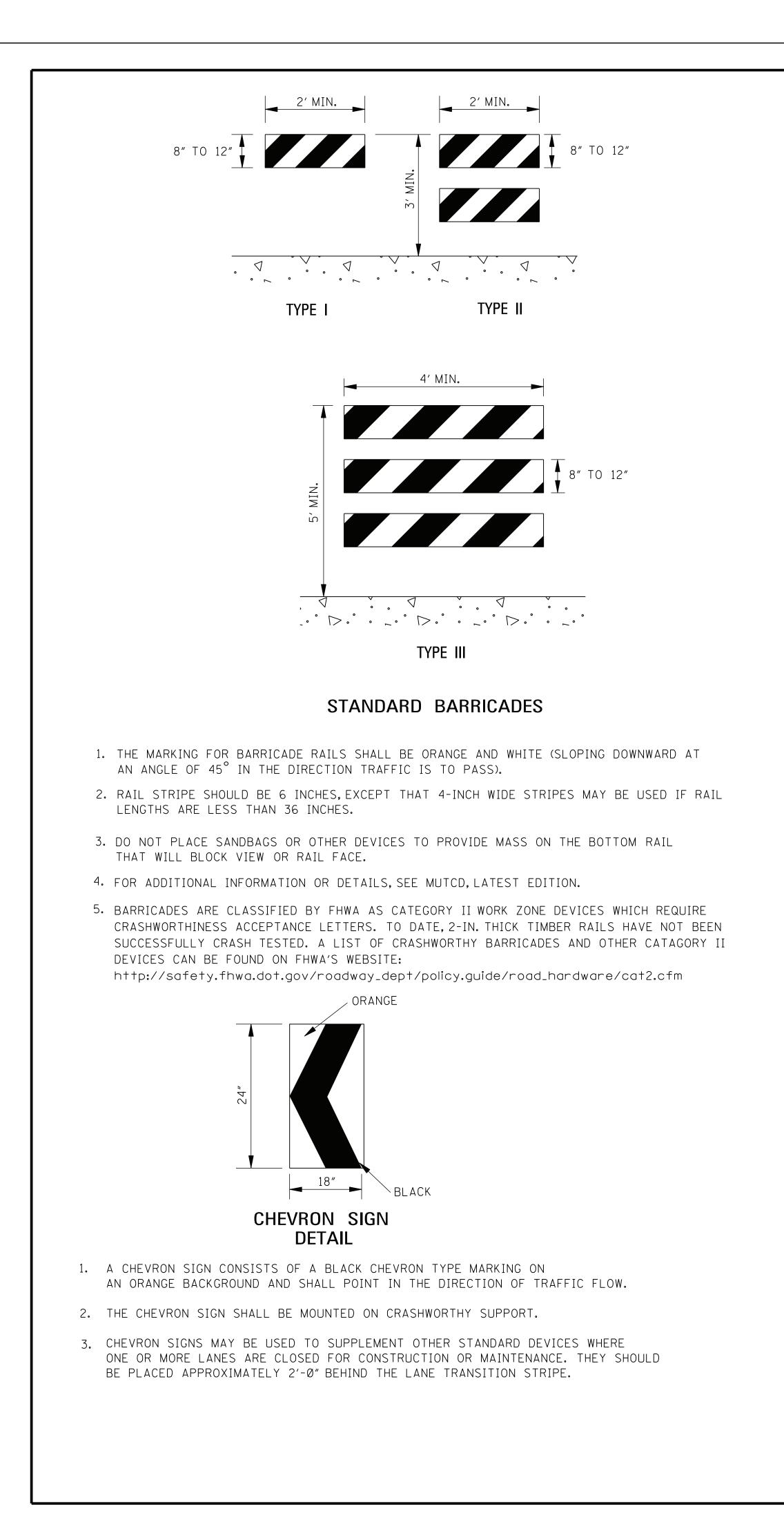
MAXIMUM CHANNELIZING DEVICE SPACING (ft) LONGITUDIN BUFFER SPA (ft) mph ALONG TAPER ALONG LANE LINE & WORK ZONE (ft) 25 20 50 55 30 20 60 85 35 20 70 120 40 20 80 170 45 20 100 280 50 20 110 335 60 20 120 415 65 20 130 485		-			
ALONG (f+) mph TAPER LANE LINE & WORK ZONE (f+) 25 20 50 55 30 20 60 85 35 20 70 120 40 20 80 170 45 20 100 280 55 20 110 335 60 20 120 415	AND/OR	СНА	NNELIZING CE SPACING		
2520505530206085352070120402080170452090220502010028055201103356020120415		TAPER	LANE LINE &		
35 20 70 120 40 20 80 170 45 20 90 220 50 20 100 280 55 20 110 335 60 20 120 415		20	5Ø	55	
40 20 80 170 45 20 90 220 50 20 100 280 55 20 110 335 60 20 120 415	30	20	60	85	
45 20 90 220 50 20 100 280 55 20 110 335 60 20 120 415	35	20	7Ø	12Ø	
50 20 100 280 55 20 110 335 60 20 120 415	40	2Ø	80	17Ø	
55 2Ø 11Ø 335 6Ø 2Ø 12Ø 415	45	2Ø	90	22Ø	
60 20 120 415	50	2Ø	100	28Ø	
	55	2Ø	11Ø	335	
65 20 130 485	60	20	12Ø	415	
	65	20	130	485	

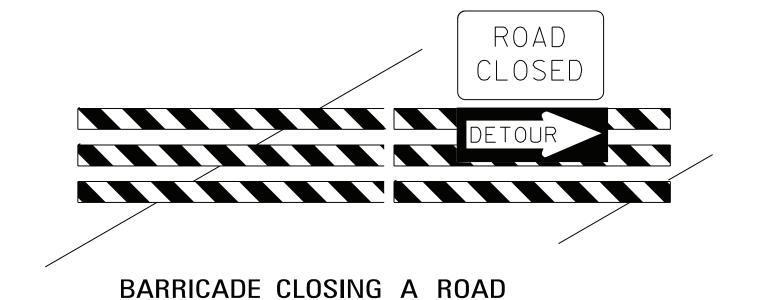
+ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

- + STOPPING NAL SIGHT PACE DISTANCE 155 200 25Ø 3Ø5 36Ø 425 495 57Ø 645

- 2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 3. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" × 36" AND BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
- 5. ADDITIONAL FLAGGERS MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
- 6. WHEN WORK IS REQUIRED AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.
- 7. CHANNELIZING DEVICE TYPES FOR: A. APPROACH AND EXIT TAPERS- RETROREFLECTIVE PLASTIC DRUMS B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT)
- 8. 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.

	STATE PR	OJECT NO.
	MISS.	
W20-7A W20-1 (AHEAD) (AHEAD)		
AH NG		
AHEAD M20-4 (AHEAD) (AHEAD)		
AH AH AH		
LEGEND		
FLAGGER		
RETROREFLECTIVE FREE-STANDING PLASTIC	DRUMS	
O TRAFFIC CONES (28" HEIGHT MINIMUM)		
DISTANCE BETWEEN SIGNS		
ROAD TYPE A B C		
URBAN (35 MPH OR LESS) 100 FT. 100 FT. 100 FT.		
URBAN (40 - 70 MPH)350 FT.350 FT.350 FT.RURAL500 FT.500 FT.500 FT.		
EXPRESSWAY / FREEWAY 1000 FT. 1500 FT. 2640 FT.		
MISSISSIDDI DEDADTMENT A	F TRANGDA	<u>ρ</u> τα τιωνι
MISSISSIPPI DEPARTMENT O ROADWAY DESIGN	DIVISION	RTATION
	DIVISION	RTATION
ROADWAY DESIGN STANDARD P	DIVISION LAN	RTATION
ROADWAY DESIGN STANDARD P	division lan PLAN	RTATION
ROADWAY DESIGN STANDARD P	DIVISION LAN PLAN R	
ROADWAY DESIGN STANDARD P TRAFFIC CONTROL WITH FLAGGE	DIVISION LAN PLAN R OF	TRKING NUMBER
ROADWAY DESIGN STANDARD P TRAFFIC CONTROL WITH FLAGGEI (ONE-LANE CLOSURE TWO-WAY TRAFFIC)	DIVISION LAN PLAN R OF	INSESSIVE DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN STANDARD P TRAFFIC CONTROL WITH FLAGGEI (ONE-LANE CLOSURE	DIVISION LAN PLAN R OF	TCP-1

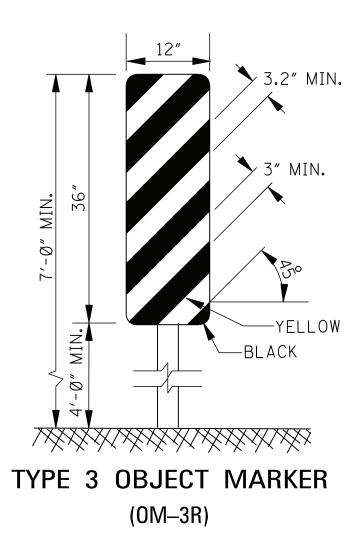




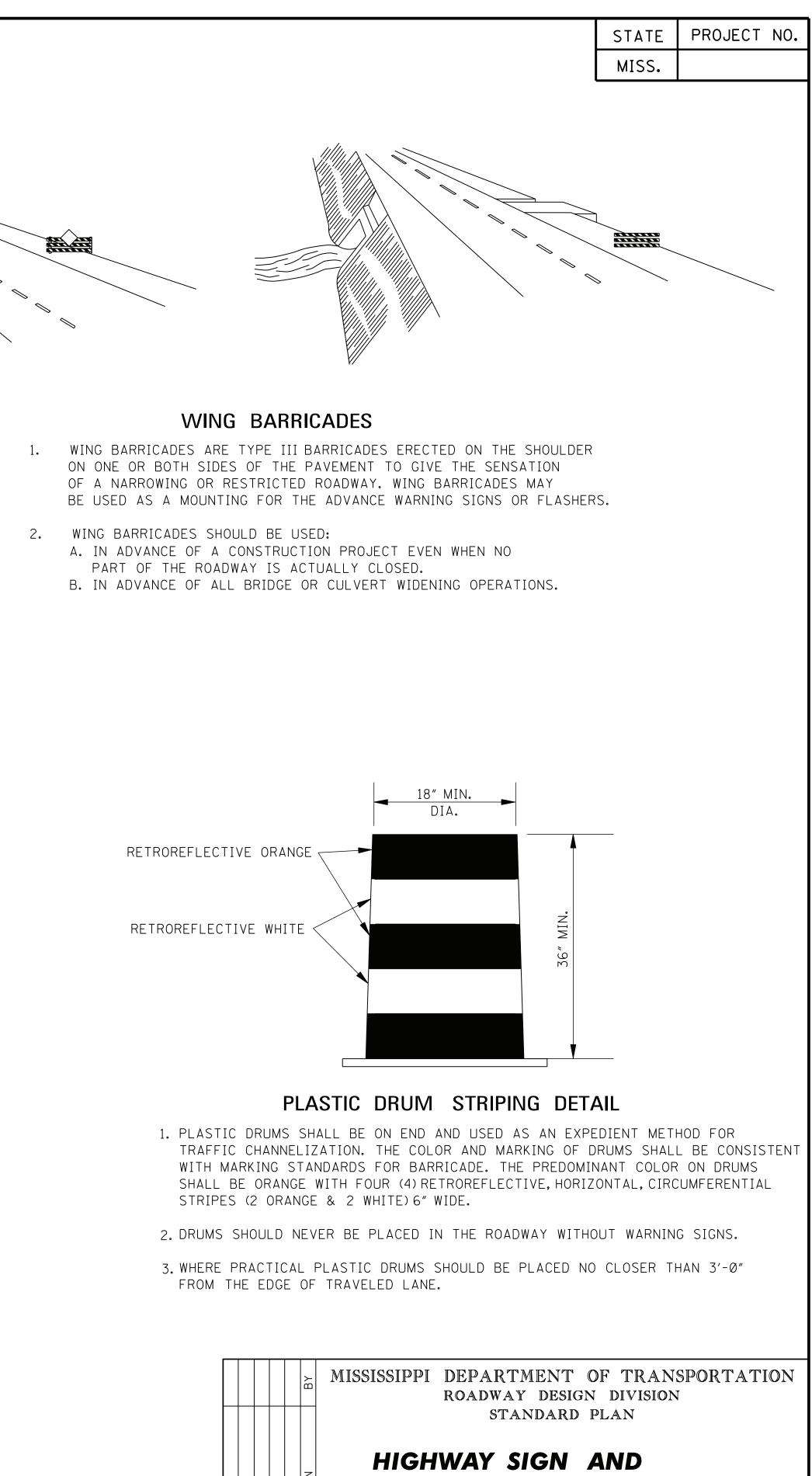
BARRICADE CHARACTERISTICS

	I	π	Ш
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 in² of Reflective Area FACING TRAFFIC.



- 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.



REVISION	HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	MISSISSPICEPARTMENT OF TRANSPORTATION WORKING NUMBER TCP-8	
DATE	ISSUE DATE:AUGUST Ø1,2017	sheet number 6358	

	CORRUGATED STEEL AND ALUMINUM PIPE (ROUND)								
	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (f+)								
				HEET THICKNESS					
		0.064 STEEL	Ø.079 STEEL	Ø.109 STEEL	Ø.138 STEEL	Ø.168 STEEL			
PIPE	MINIMUM COVER	Ø.Ø6Ø ALUM.	Ø.Ø75 ALUM.	Ø.105 ALUM.	Ø.135 ALUM.	Ø.164 ALUM.			
DIAMETER	FROM TOP OF	16 GAGE	14 GAGE	12 GAGE	10 GAGE	8 GAGE			
(in)	` PIPE TO TOP OF SUBGRADE (in)	2 ² /3″X / CORRUGATED HELICA	STEEL / C	3″ X 1″ OR 5″ X ORRUGATED STEE HELICAL	L / CORRUGA	² /3″ x ¹ /2″ ATED ALUMINUM HELICAL			
12″	12″	207'/ - /125'	259′/ - /157′	- / - / -	- / - / -	- / - / -			
15″	12″	165'/ - /100	′207′/ - /125′	- / - / -	- / - / -	- / - / -			
18″	12″	138'/ - /83'	172'/ - /104'	242′/ - / -	- / - / -	- / - / -			
24″	12″	103'/ - /62'	129′/ - / 78′	181′⁄ - /1Ø9′	- / - / -	- / - / -			
30″	12″	82′/ - / -	103′/ - /69′	145′⁄ - /97′	- / - / -	- / - / -			
36″	12″	68′/ - / -	86′/-/62′	120′⁄ - /87′	155'/ - / 94'	- / - / -			
42″	12″	58′/ - / -	73′ / - / 51′	103′/ - /73′	133'/ - / 80'	163′/ - / -			
48″	12″	51′/ - / -	64′/-/-	90′/-/62′	116'/ - / 7Ø'	142'/ - / 85'			
54″	12″	- / 46' / -	57′/58′/-	80′/82′/54′	103′/106′/62′	126'/129'/76'			
60″	12″	- / 42′ / -	- /52′/-	72′/74′/48′	93′ / 95′ / 52′	114'/ 116'/ 64'			
66″	12″	- / 38′ / -	- / 47' / -	- /66′/-	84′/86′/ -	103'/106'/ 52'			
72″	12″	- / 35′ / -	- / 43' / -	- / 61′ / -	77′/79′/ -	94' / 97' / 43'			
78″	12″	- / 32′ / -	- /40′/-	- /56′/-	- / 73' / -	84'/89'/ -			
84″	12″	- / 29′ / -	- /37′/-	- /52′/-	- / 68' / -	72′/83′/ -			
90″	12″	- / 27′ / -	- / 34' / -	- /49′/ -	- / 63′ / -	- / 77' / -			
96″	12″	- / - / -	- / 32' / -	- /46′/-	- / 59' / -	- / 72' / -			
102″	24″	- / - / -	- /30'/-	- /43′/ -	- / 55′/ -	- / 68' / -			
108″	24″	- / - / -	- / - / -	- /40′/-	- / 52′/ -	- / 64' / -			
114″	24″	- / - / -	- / - / -	- / 38′ / -	- / 50' / -	- / 61′ / -			
120″	24″	- / - / -	- / - / -	- /36′/-	- / 47′/ -	- / 58' / -			

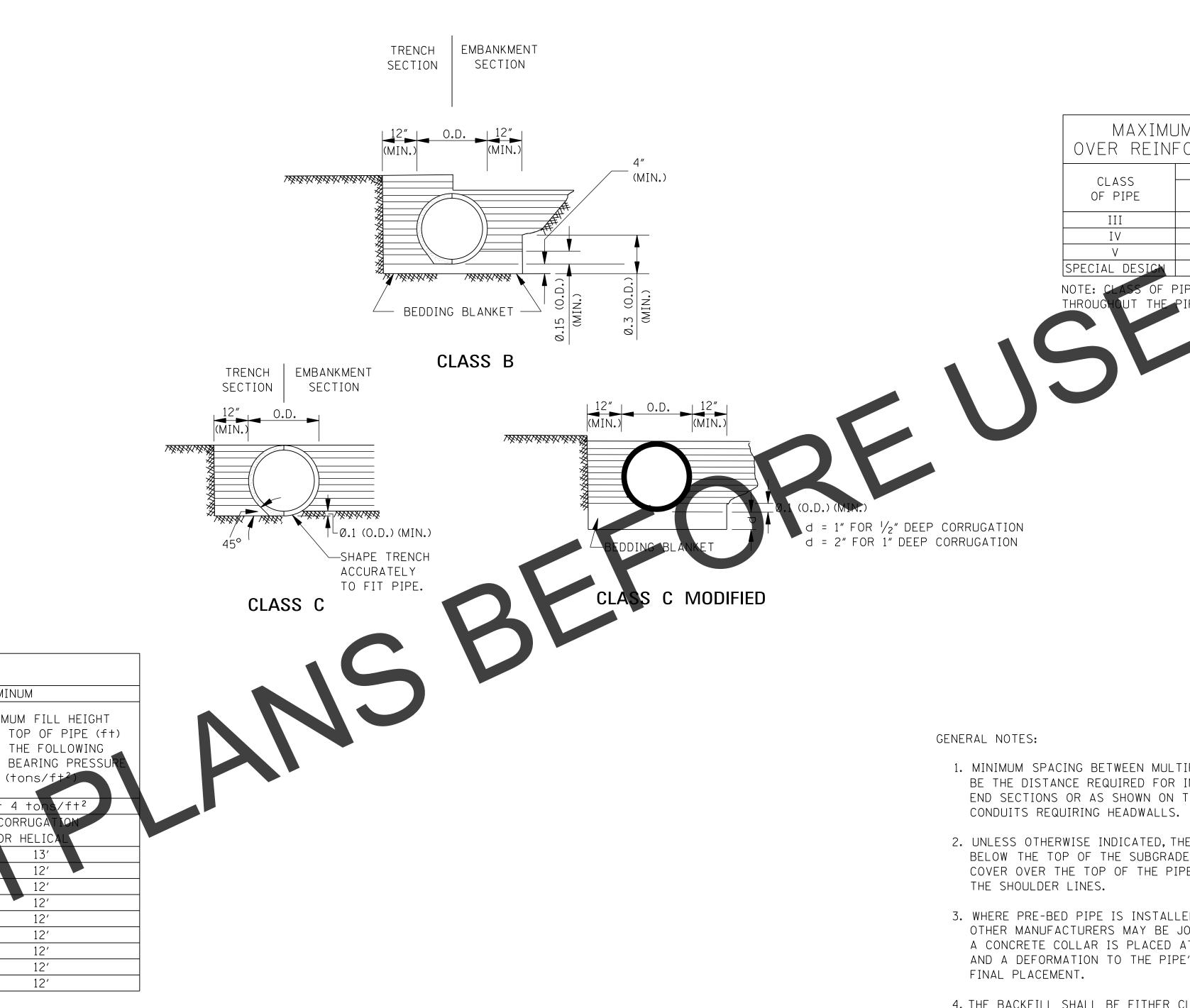
NOTE: THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR $\frac{1}{2}$ ", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

		CORRUGATED) METAL PIPE	ARCHES		
				STEEL		ALUMIN
EQUIV. DIAMETER (in)	PIPE DIMENSION (SPAN X RISE) (in)	MINIMUM COVER	MINIMUM THICKNESS REQUIRED (in)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft ²)	MINIMUM THICKNESS REQUIRED (in)	MAXIML ABOVE T FOR T CORNER E (1
				t 4 tons/ft ²		+ 4
			2 ² / ₃ "	X 1/2" CORRUGATION	2 ² /-	3″ X 🖊 2″ CO
				HELICAL	R	IVETED OR
15″	17" X 13"	12″	Ø.Ø64″	13'	0.060"	
18″	21" X 15"	12″	Ø.Ø64″	12'	0.060"	
24″	28" X 20"	12″	Ø.Ø64″	12'	Ø.Ø75*	
30″	35″ X 24″	12″	Ø.Ø64″	12'	0,075″	
36″	42″ X 29″	12″	Ø.Ø64″	12'	0.105″	
42″	49″ X 33″	12″	Ø.Ø79″	12'	Ø.1Ø5*	
48″	57″ X 38″	12″	Ø.1Ø9″	12'	Ø.135″	
54″	64" X 43"	12″	Ø.1Ø9″	12'	Ø.135″	
60″	71" X 47"	12″	Ø.138″	12'	Ø.164″	
66″	77" X 52"	12″	0.168″	12'		
72″	83″ X 57″	12″	Ø.168″	12'	_	
		3" X 1" CO HELI	RRUGATION	5" X I" CORRUGATION HELICAL		
48″	53″ X 41″	12″/ -	0.079″ / -	12′ / -		
54″	60" X 46"	15″/ -	0.079" -	20′ / -		
60″	66″ X 51″	15″X -	0.079″/ -	20′ / -		
66″	73″ X 55″	18″× -	0.079″/ -	20′ / -		
72″	81″ X 59″	18″ / 18′	0.079″ / 0.109″	17' / 17'		
78″	87" X 63"	18″ / 18″	0.079″ / 0.109″	16' / 16'		
84″	95″ X 67″	18″ / 18″	0.079″ / 0.109″	16' / 16'		
90″	103" X 71"	18″⁄ 18″	0.109" / 0.109"	16' / 16'		
96″	112″ X 75″	21" / 21"	0.109" / 0.109"	16' / 16'		
102″	117" X 79"	21″ / 21″	0.109" / 0.109"	16' / 16'		
108″	128" X 83"	24″/24″	0.138″ / 0.138″	16' / 16'	_	
114″	137" X 87"	24" / 24"	Ø.138″ / Ø.138″	16' / 16'	_	
120″	142" X 91"	27″/27″	0.168″ / 0.168″	16' / 16'		

NOTES:

1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR $\frac{1}{2}$ ", whichever is GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

+ 2. BEARING PRESSURES FOR GIVEN FILL HEIGHT SHALL HAVE FOUNDATION MATERIALS INVESTIGATED TO DETERMINE BEARING CAPACITY.



PROJECT NO. STATE

MISS.

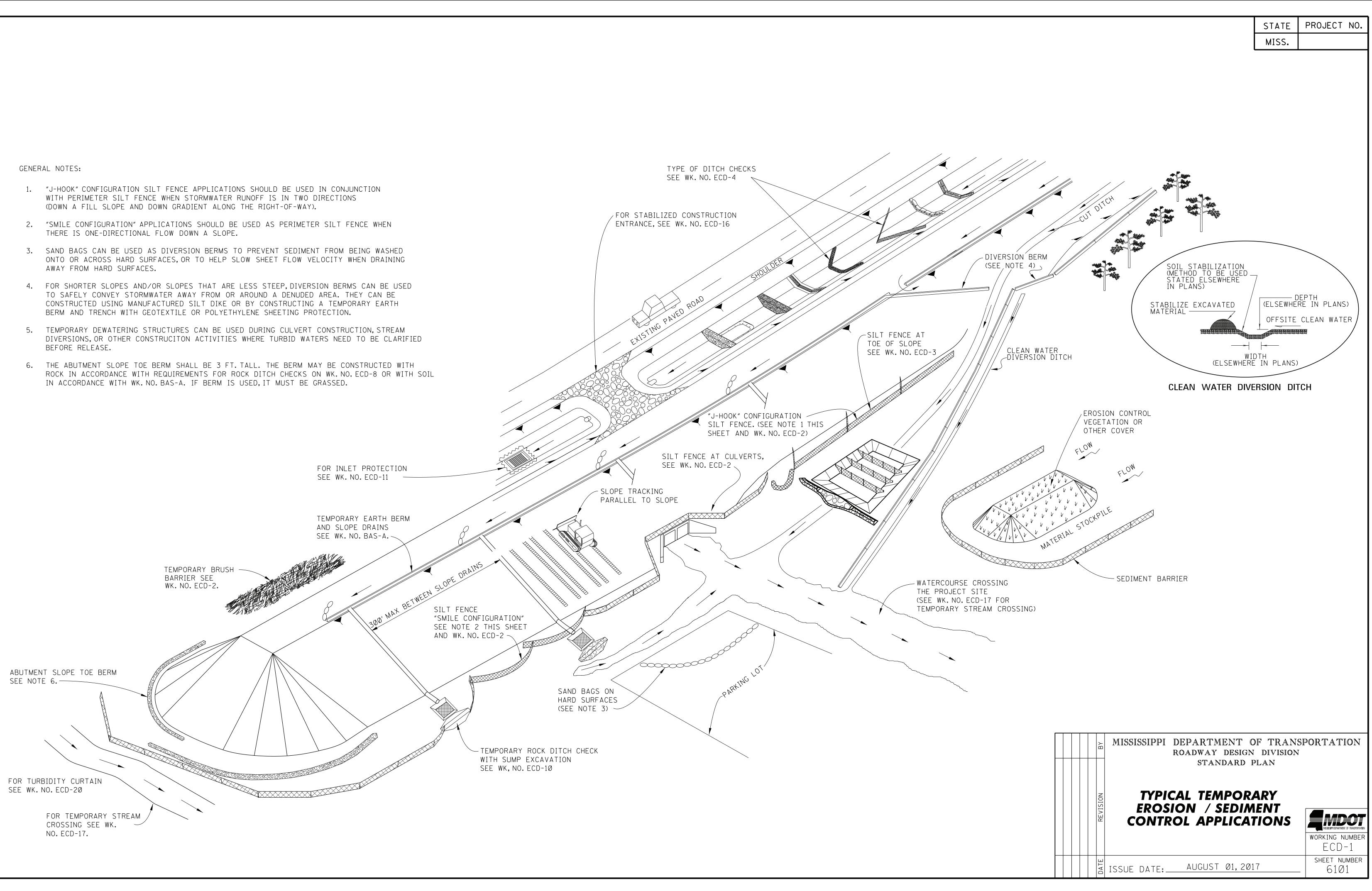
MAXIMUM HEIGHT OF FILL Over reinforced concrete pipe									
CLASS OF PIPE	MAXIMUM CLASS "C" BEDDING	COVER (ft) CLASS "B" BEDDING							
III	12′	19′							
IV	18′	30′							
V	28′	48′							
SPECIAL DESIGN	>28′	>48′							

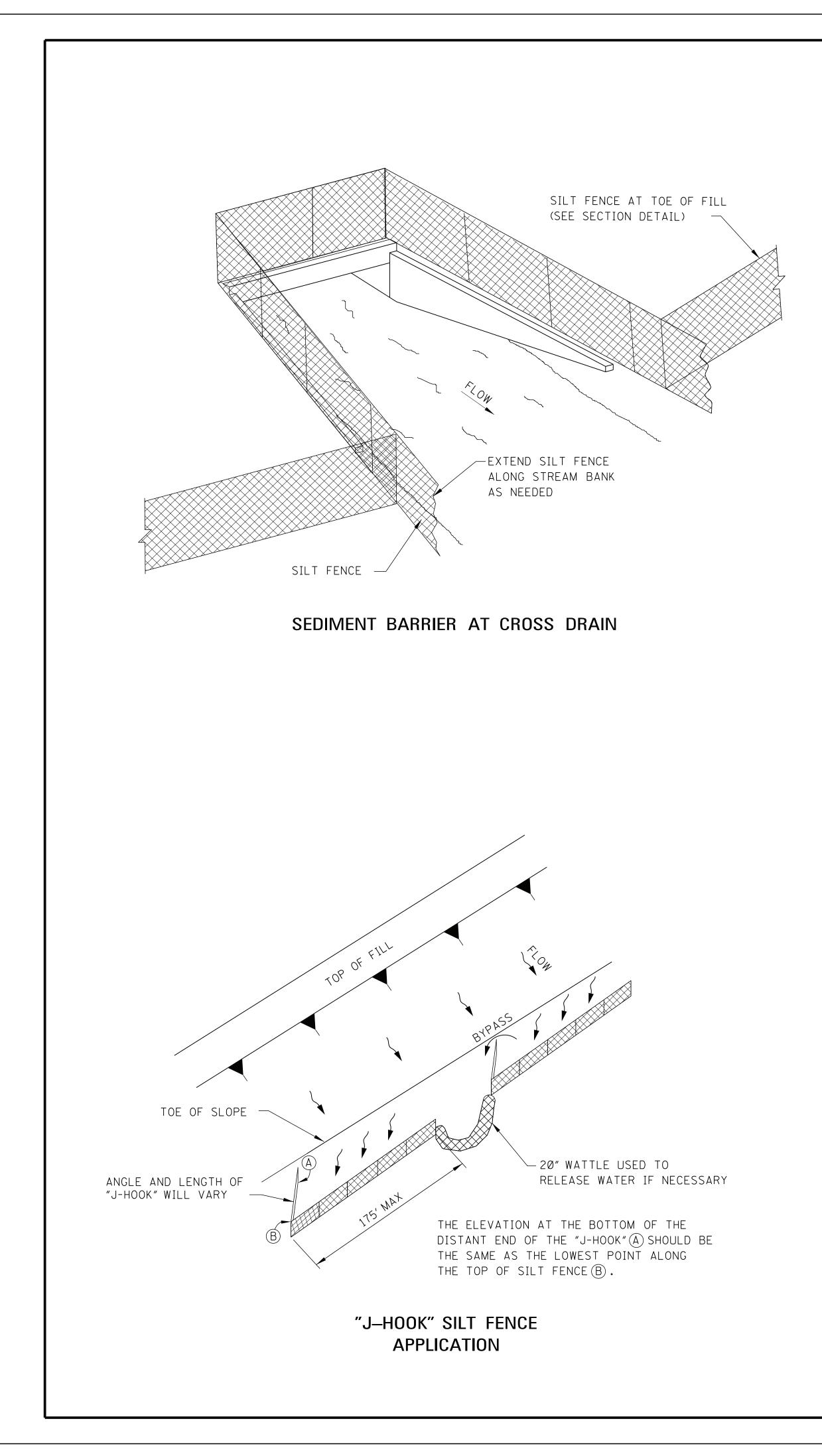
IPE AND BEDDING TO BE CONSISTENT THE PIPE LENGTH.

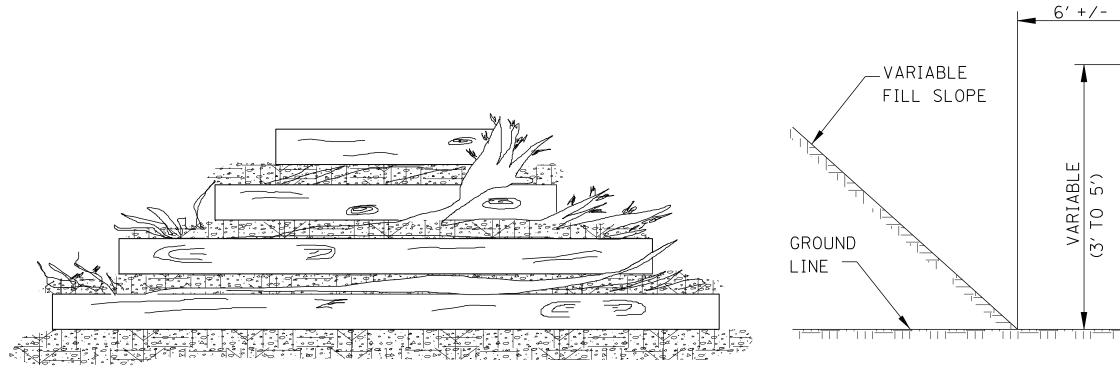
- 1. MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR
- 2. UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN
- 3. WHERE PRE-BED PIPE IS INSTALLED. FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTOR'S EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON
- 4. THE BACKFILL SHALL BE EITHER CLASS "B", CLASS "C", OR CLASS "C" MODIFIED. A MINIMUM COMPACTION LEVEL OF 95% STANDARD PROCTOR DENSITY PER AASHTO T99 SHALL BE ACHIEVED BY USE OF VIBRATORY PLATE. HYDROHAMMER TYPE COMPACTORS SHALL NOT BE USED OVER THE PIPE. ALL COMPACTION EQUIPMENT USED SHALL BE APPROVED BY THE ENGINEER.

	ΒY	MISSISSIPPI DEPARTMENT OF TRANS Roadway design division standard plan	PORTATION
	REVISION	PIPE CULVERT INSTALLATION	MISSISPH DEPARTMENT OF TRANSPORTATION
			working number PI-1
	DATE	ISSUE DATE: AUGUST Ø1, 2017	sheet number 65Ø1

- WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
- THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
- AWAY FROM HARD SURFACES.
- TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUDED AREA. THEY CAN BE CONSTRUCTED USING MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
- DIVERSIONS, OR OTHER CONSTRUCITON ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
- IN ACCORDANCE WITH WK. NO. BAS-A. IF BERM IS USED, IT MUST BE GRASSED.







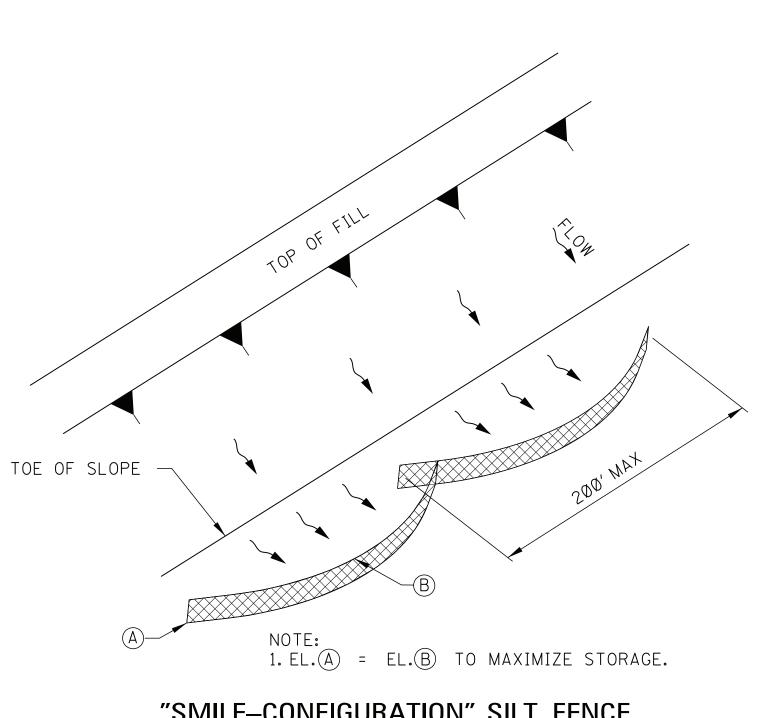
FRONT ELEVATION

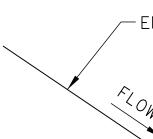
TEMPORARY BRUSH BARRIER

NOTES:

- 1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FR
- 2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE OF THE HEAVIER MATERIALS BEING PLACED ON TO TO PROPERLY SECURE THE BARRIER AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
- 3. TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND SO AS NOT TO FORM A SOLID DAM.
- 4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC. THE COST OF FABRIC TO BE IN OTHER ITEMS BID.
- 5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPARATE PAYMENT.

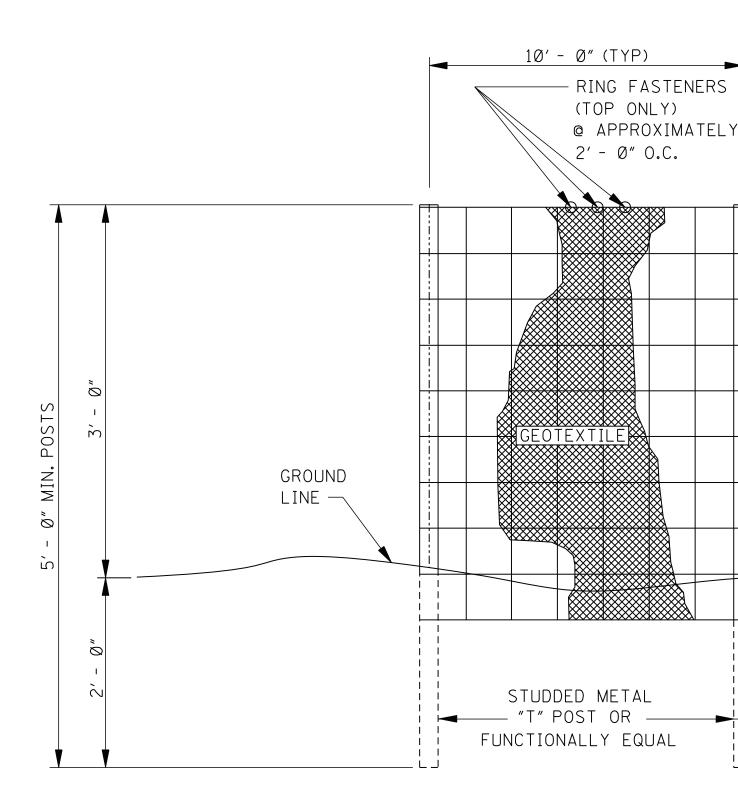
NOTE: ANCHOR AND INSTALL SILT FE



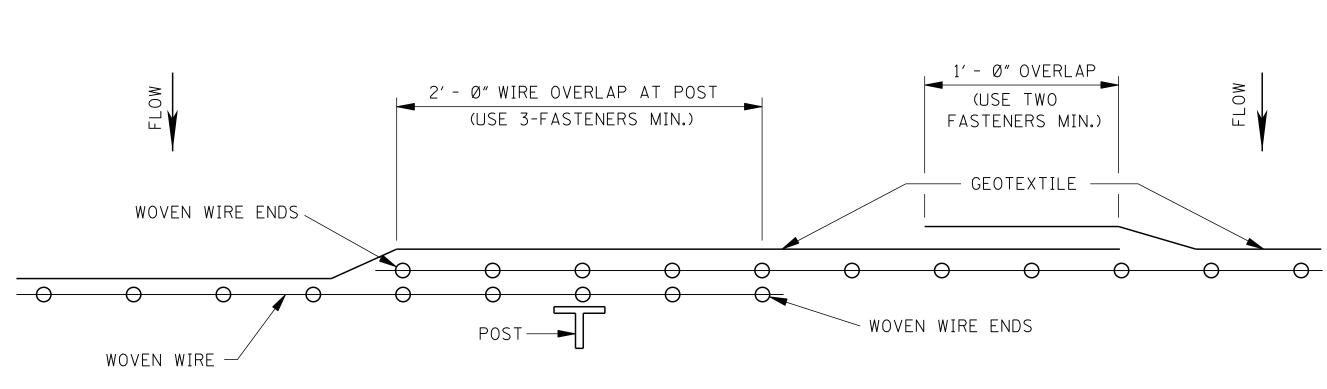


"SMILE-CONFIGURATION" SILT FENCE APPLICATION

			STATE	PROJECT	NO.
			MISS.		
		L	I		
- VARIAE	3LE				
(5' TO 1	Ø')				
	GROUI LINE	ND			
SIDE ELEVATION					
FROM PROJECT.					
E WITH SOME					
R AS DETAILED					
ND TREE LAPS					
BE INCLUDED					
FENCE PER DETAILS SHOWN ON W					
*	SILT FENCE SHOULD BE LOCATED AWAY FROM THE TOE OF THE SLOPE				
- EMBANKMENT	TO PROVIDE SUFFICIENT SPACE TO Allow a broad,flat area for				
	SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS				
W SILT FENCE	OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.	C			
	OF GRADIENT TO MAXIMIZE STORAGE.				
	FLOW				
SILT FENCE SECTIO TOE OF FILL	ΝΑΤ				
	MISSISSIPPI DEPART	MENT O	F TRANS	SPORTAT	ION
	ROADWAY	Y DESIGN NDARD P	DIVISION LAN		
	DETAILS OF BARRIER API				
		• • •			
				working n ECD-	
	ISSUE DATE: AUGUS	T_Ø1, 2Ø1	7	SHEET NU 61Ø	

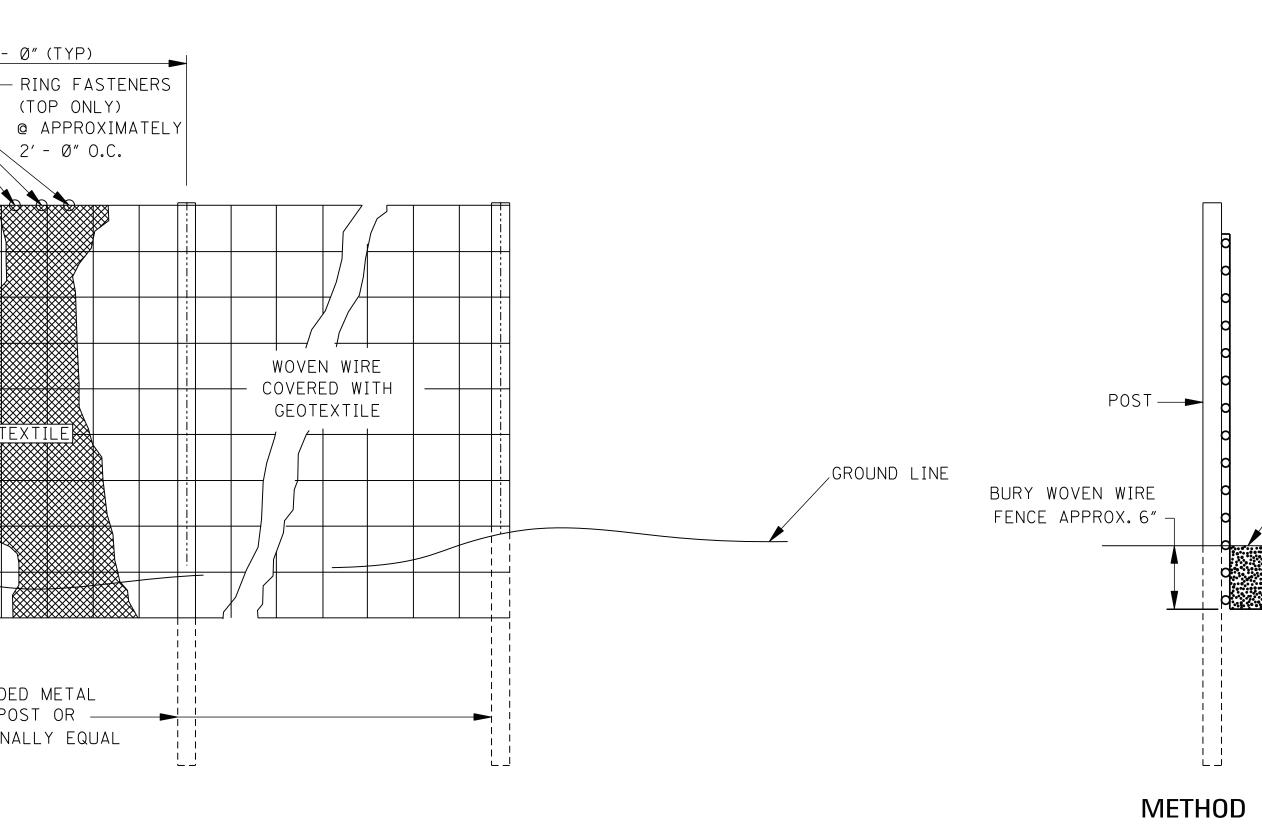








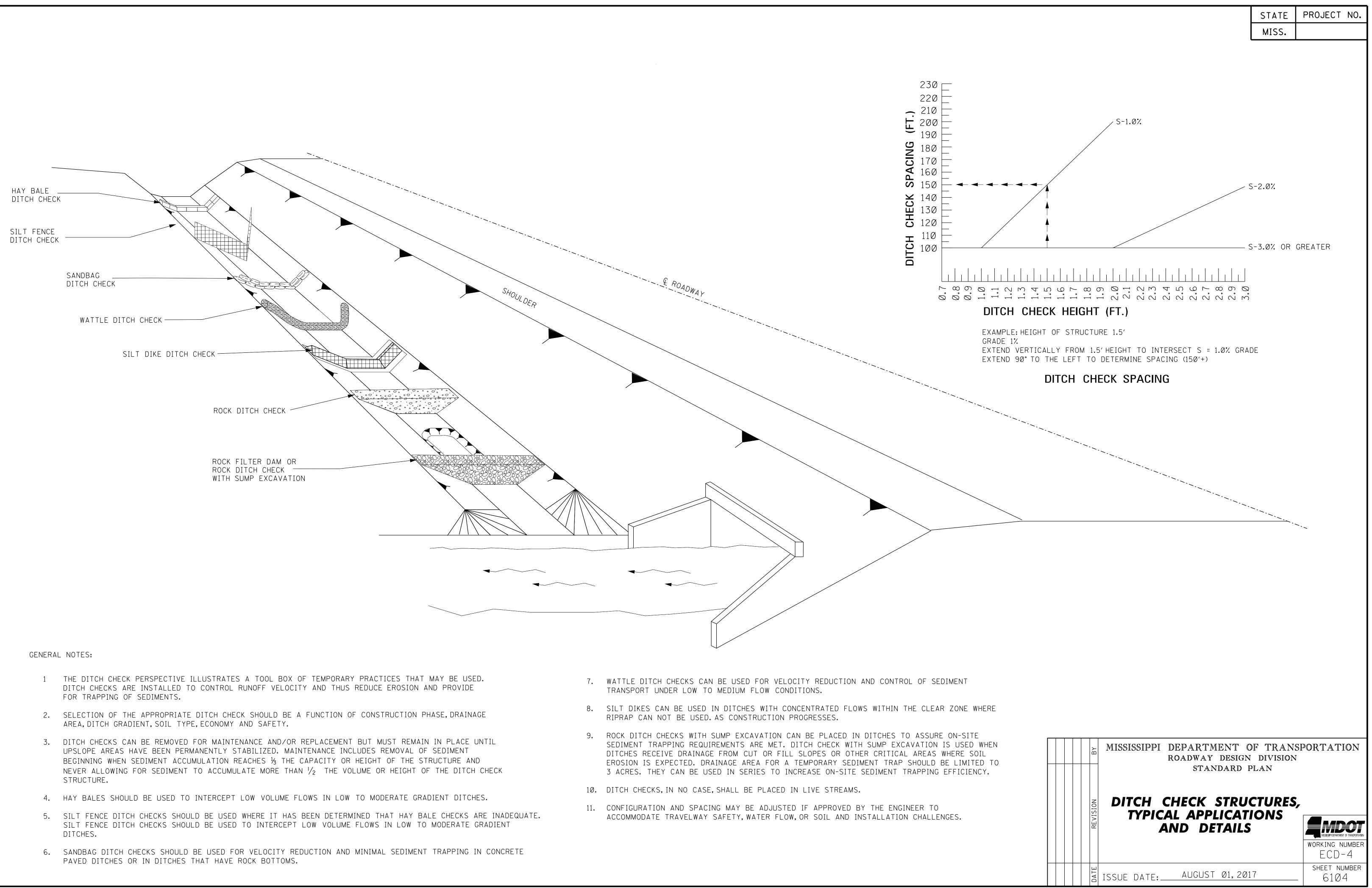
REQUIRED LAPPING



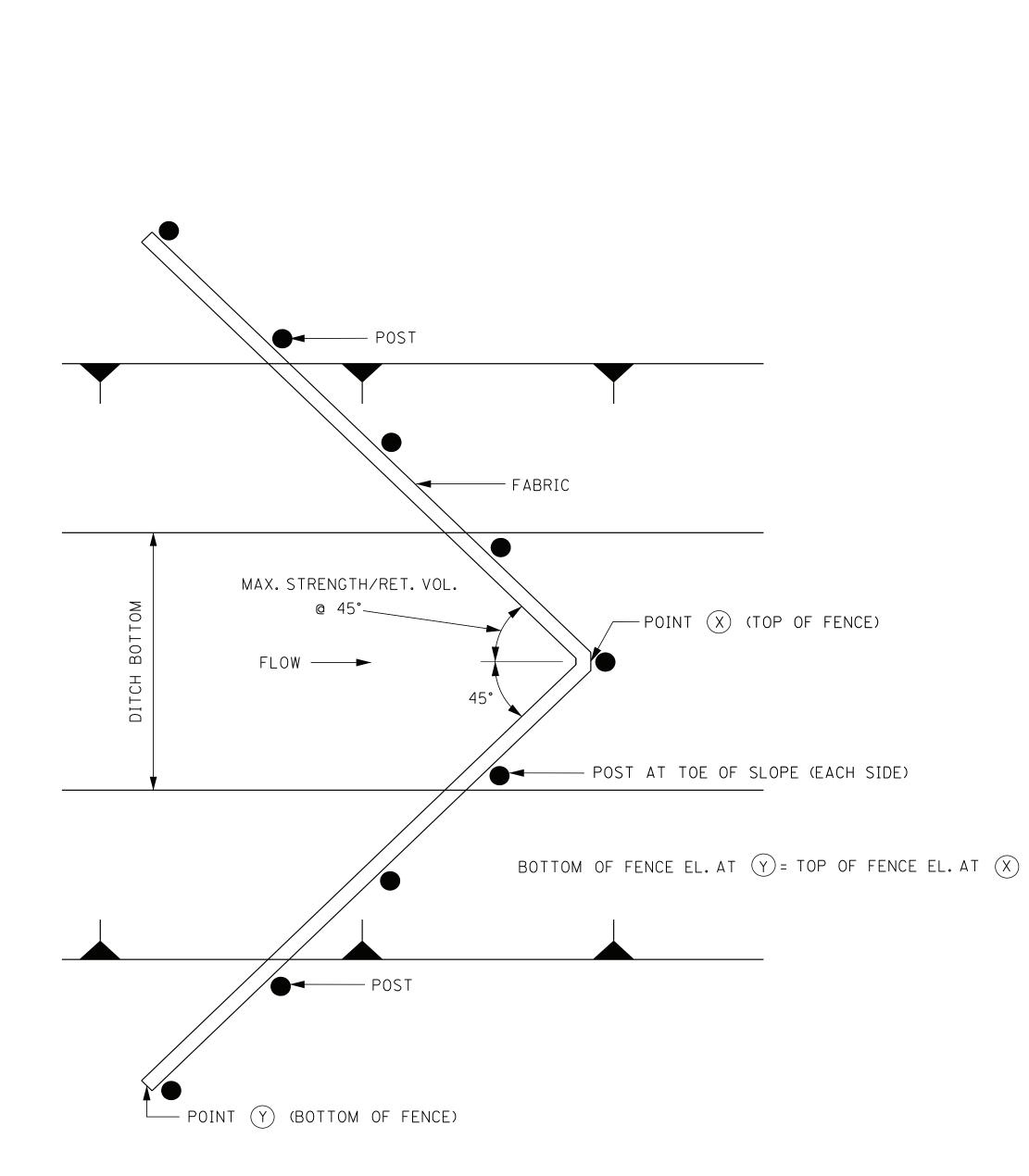
GENERAL NOTES:

- 1. SILT FENCES SHOULD BE
- 2. SILT FENCES ARE TEMPO ERODIBLE AREAS SUCH
- 3. SILT FENCE SHOULD BE THIS WILL ALLOW ROOM
- 4. WHENEVER POSSIBLE SIL A SMILE. THIS AIDS IN
- 5. THE CONTRACTOR MAY E FEET OF SILT FENCE.
- 6. METHOD II INSTALLATION THE APPLICATION AND P
- 7. WIRE SHALL BE A MINIMU 12" STAY SPACING.
- 8. GEOTEXTILE FABRIC MEE SPECIFICATION MAY BE

STATE PROJECT	CT NO.
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A A A A A A A A A A A A A A A A A A A	
POST —	
FLOW	
- GROUND LINE - GROUND LINE	
8″ MIN. WIRE & FABRIC	
TRENCH (APPROX. 6" X 6")	
BACKFILL ON TOP OF GEOTEXTILE WITH SOIL	
STOP GEOTEXTILE HERE	
METHOD II MECHANICAL INSTALLATION	
SIDE VIEW	
E USED IN AREAS WHERE FLOW IS NOT SEVERE.	
ORARY SEDIMENT CONTROL ITEMS THAT SHOULD BE ERECTED OPPOSITE As newly graded fill slopes and adjacent to steams and channels.	
PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. FOR BACK-UP FENCE IF FIRST FENCE BECOMES FULL.	
T FENCE SHOULD BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF	
PONDING OF RUNOFF AN FACILITATES SEDIMENTATION. Elect to use either method I or method II. cost to be linear	
LEGT TO USE LITHEN WETHOU I UN WETHOU II. CUST TO DE LINEAR	
N SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF DETAIL.	
NUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH	
ETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO	
USED WITHOUT WIRE FENCE.	
MISSISSIPPI DEPARTMENT OF TRANSPORTA	ATION
STANDARD PLAN	
OTSING DETAILS OF SILT Image: State of the state o	
	IDOCI 1 DEPARTMENT OF TRANSPORTATI
	g number CD-3
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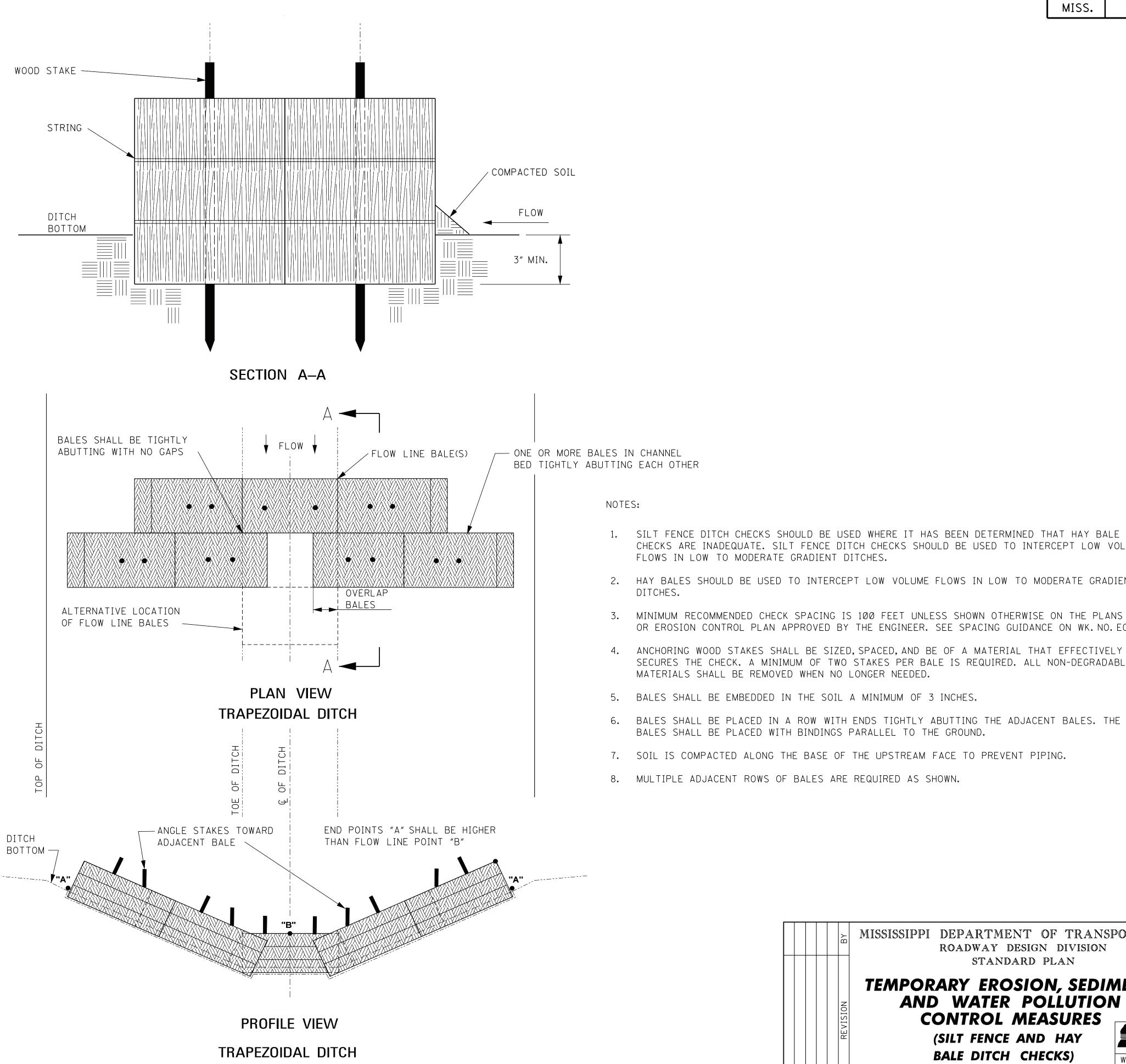
AT MAY BE USED. N AND PROVIDE	7.	WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
N PHASE, DRAINAGE	8.	SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLE RIPRAP CAN NOT BE USED.AS CONSTRUCTION PROGRESSES.
IAIN IN PLACE UNTIL OF SEDIMENT STRUCTURE AND OF THE DITCH CHECK	9.	ROCK DITCH CHECKS WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSUSEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREA EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHOULD 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPIN
GRADIENT DITCHES.	10.	DITCH CHECKS, IN NO CASE, SHALL BE PLACED IN LIVE STREAMS.
BALE CHECKS ARE INADEQUATE. To moderate gradient	11.	CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER T ACCOMMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHAL
ENT TRAPPING IN CONCRETE		



PLAN VIEW

NOTES:

- 1. ANCHOR AND INSTALL PER DETAILS FOR SILT FENCE SPACING GUIDELINES ON WK. NO. ECD-4.
- 2. A "W" SHAPE MAY BE USED FOR WIDER DITCHES.



		RY	MISSISSIPPI DEPARTMENT OF TRANSF ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
		REVISION	CONTROL MEASURES	-
		DATF		sheet number 61Ø5

8. MULTIPLE ADJACENT ROWS OF BALES ARE REQUIRED AS SHOWN.

7. SOIL IS COMPACTED ALONG THE BASE OF THE UPSTREAM FACE TO PREVENT PIPING.

MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.

BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.

3. MINIMUM RECOMMENDED CHECK SPACING IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.

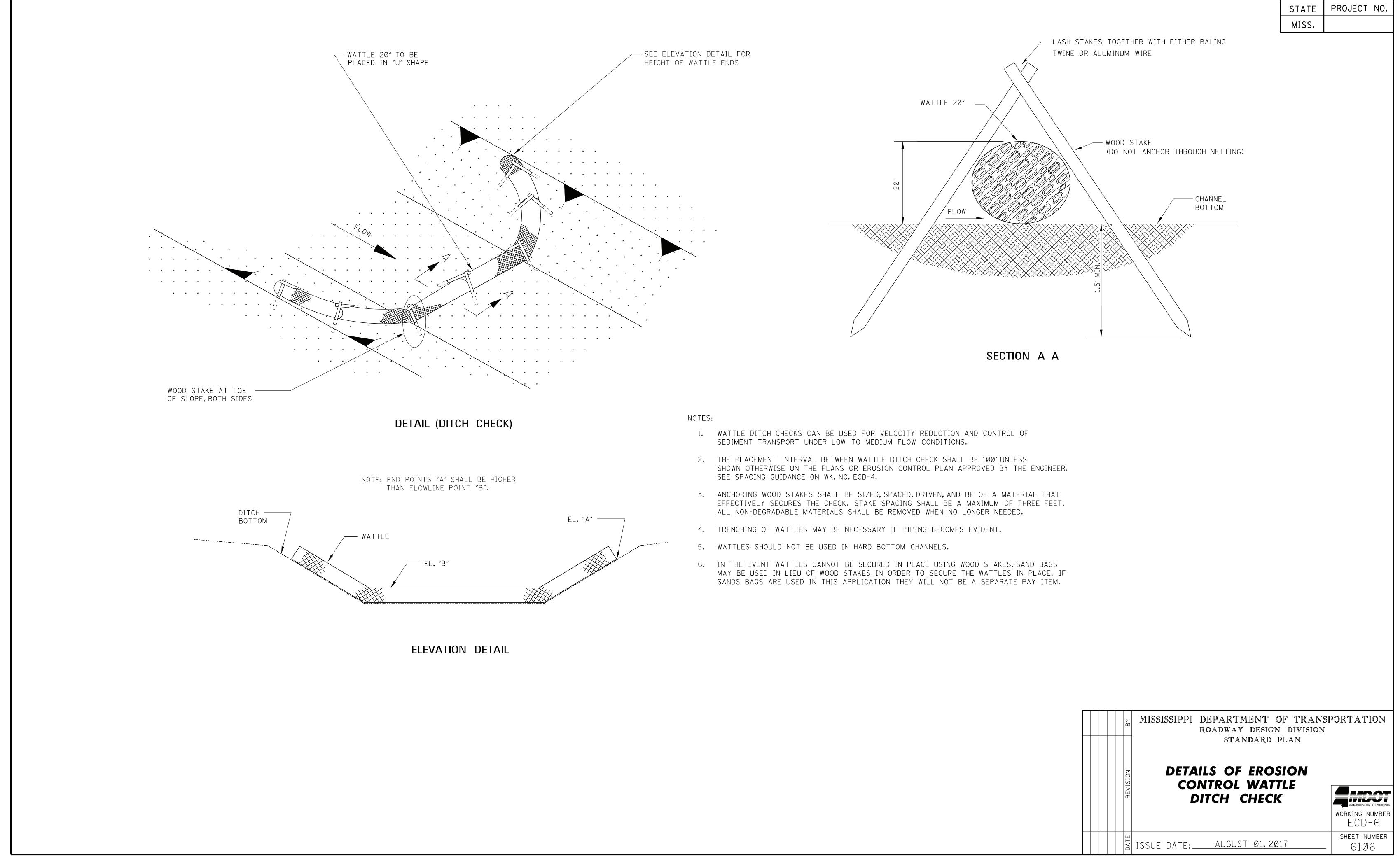
2. HAY BALES SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.

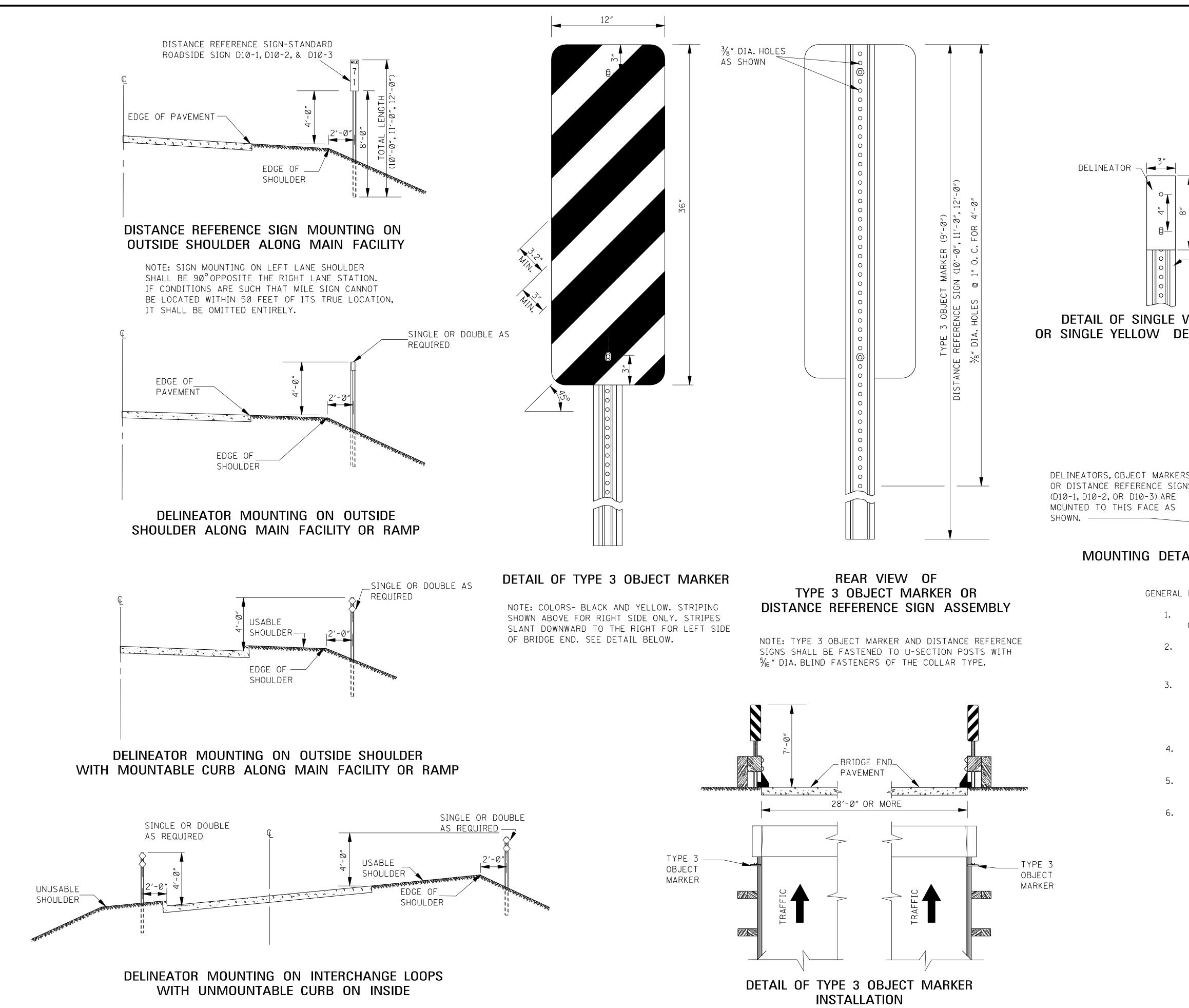
SECURES THE CHECK. A MINIMUM OF TWO STAKES PER BALE IS REQUIRED. ALL NON-DEGRADABLE

CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.

1. SILT FENCE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE

E PROJECT NO.	STATE
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GENERAL

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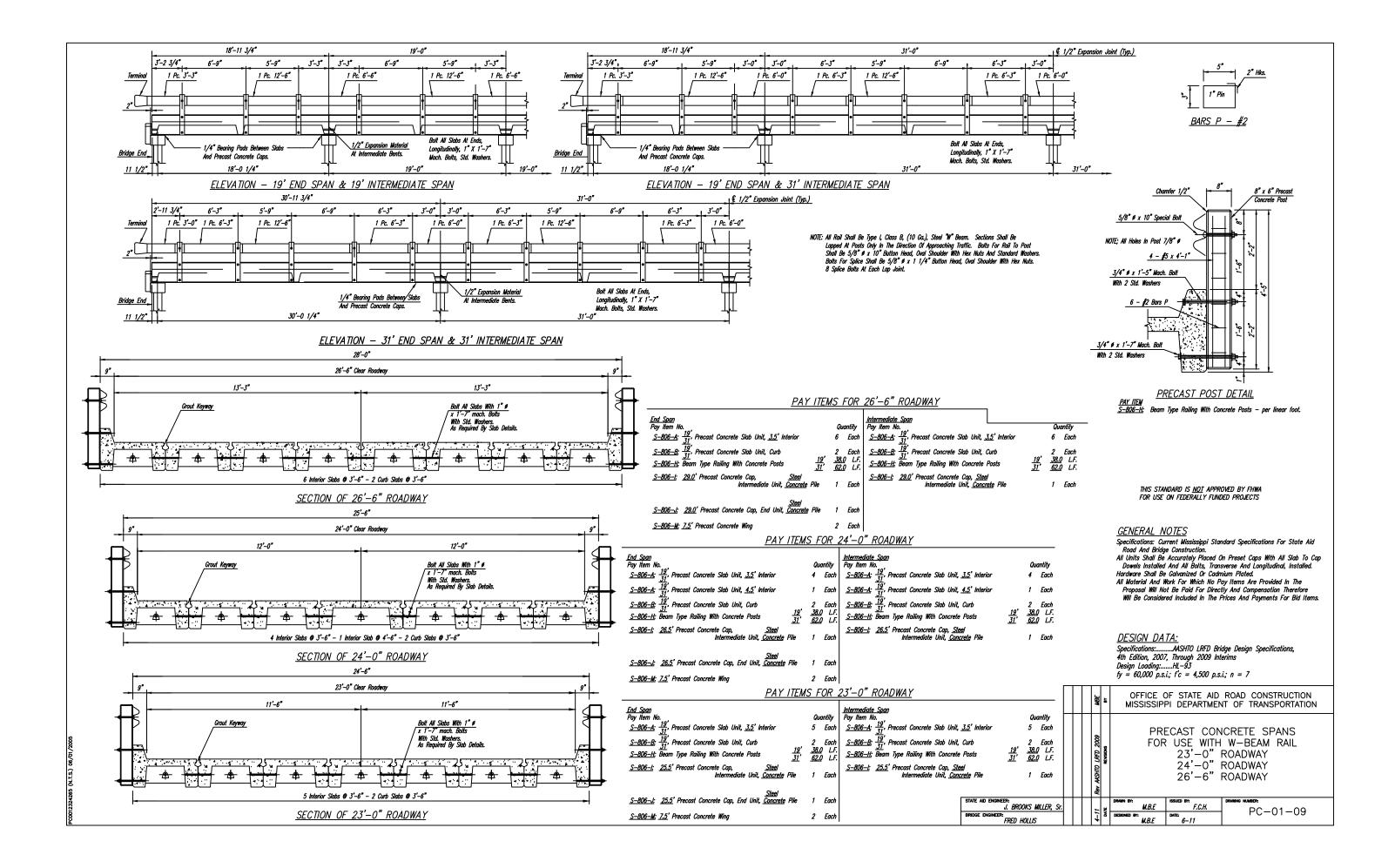
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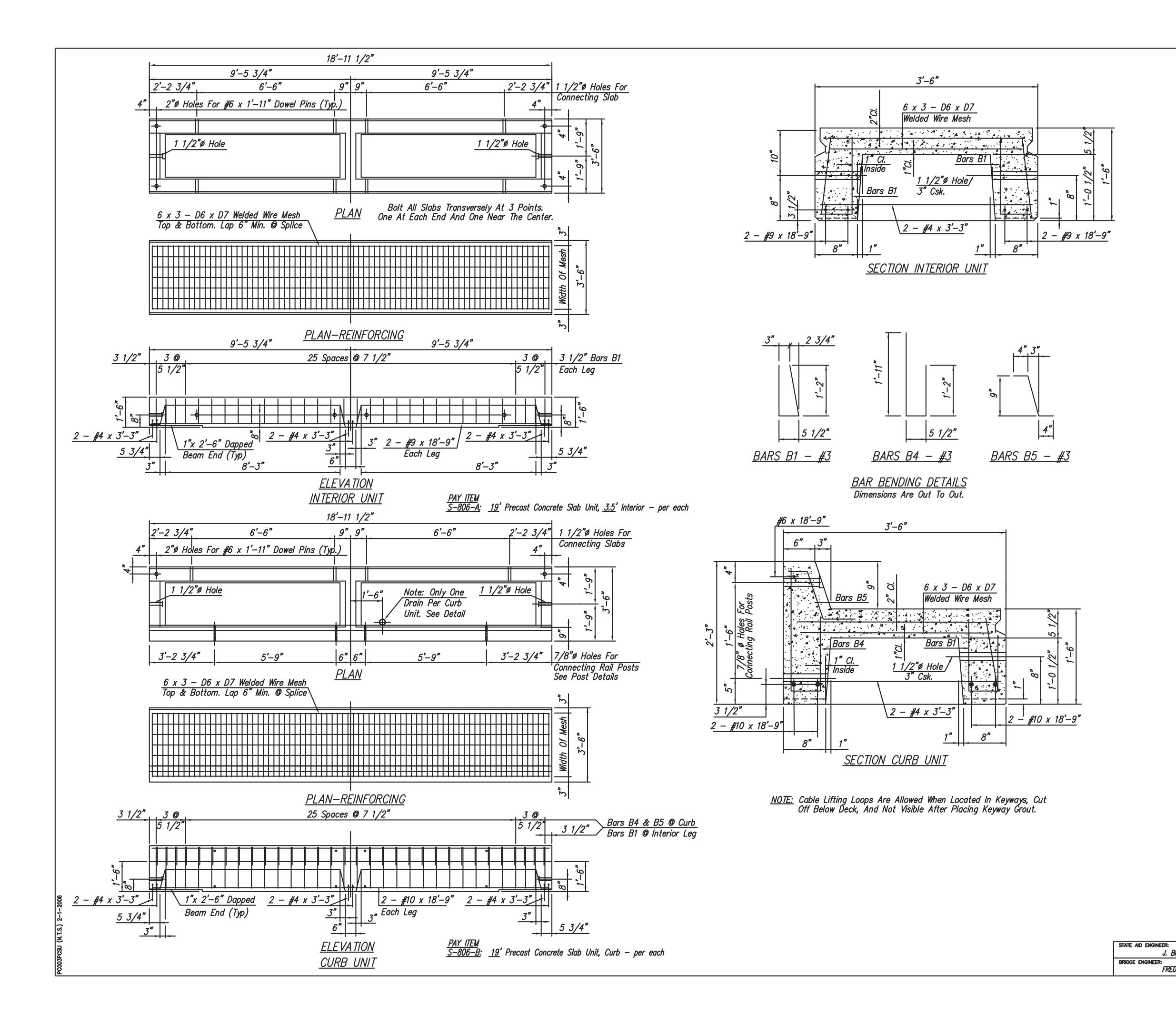
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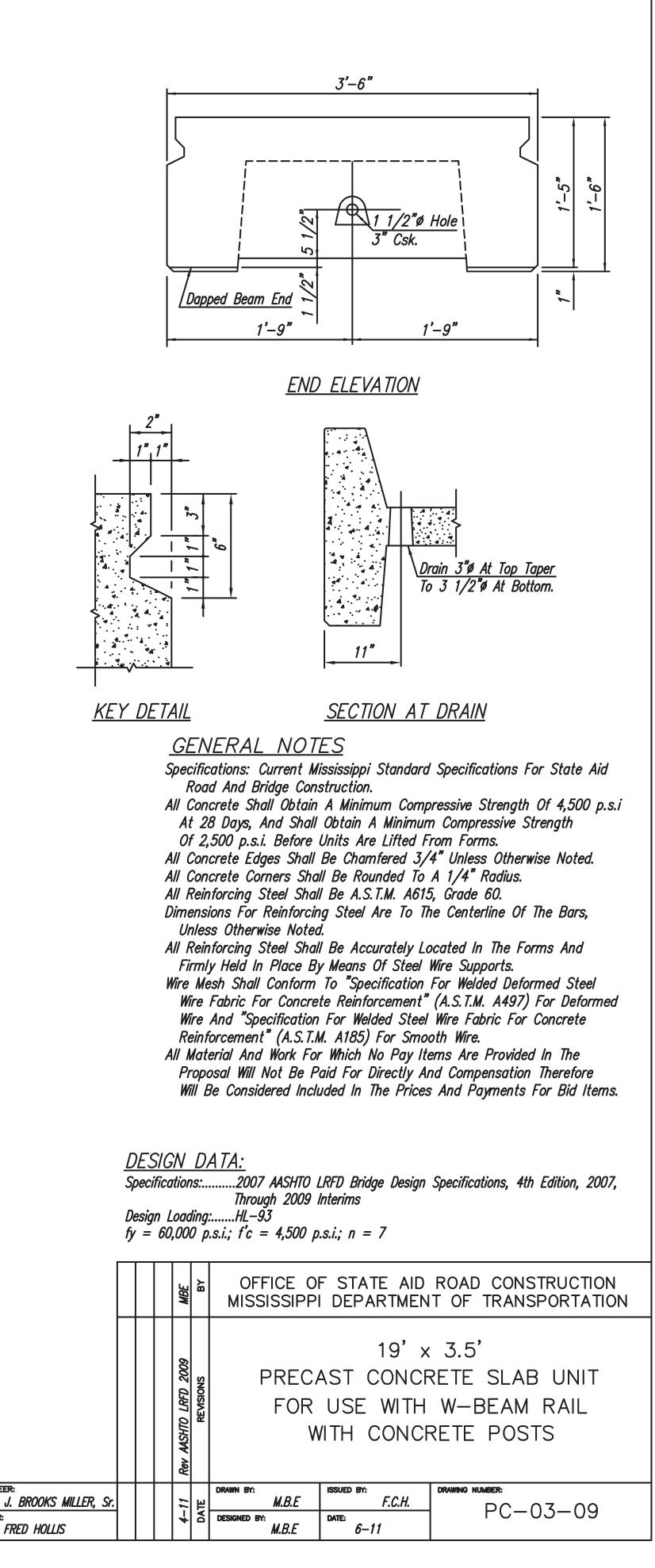
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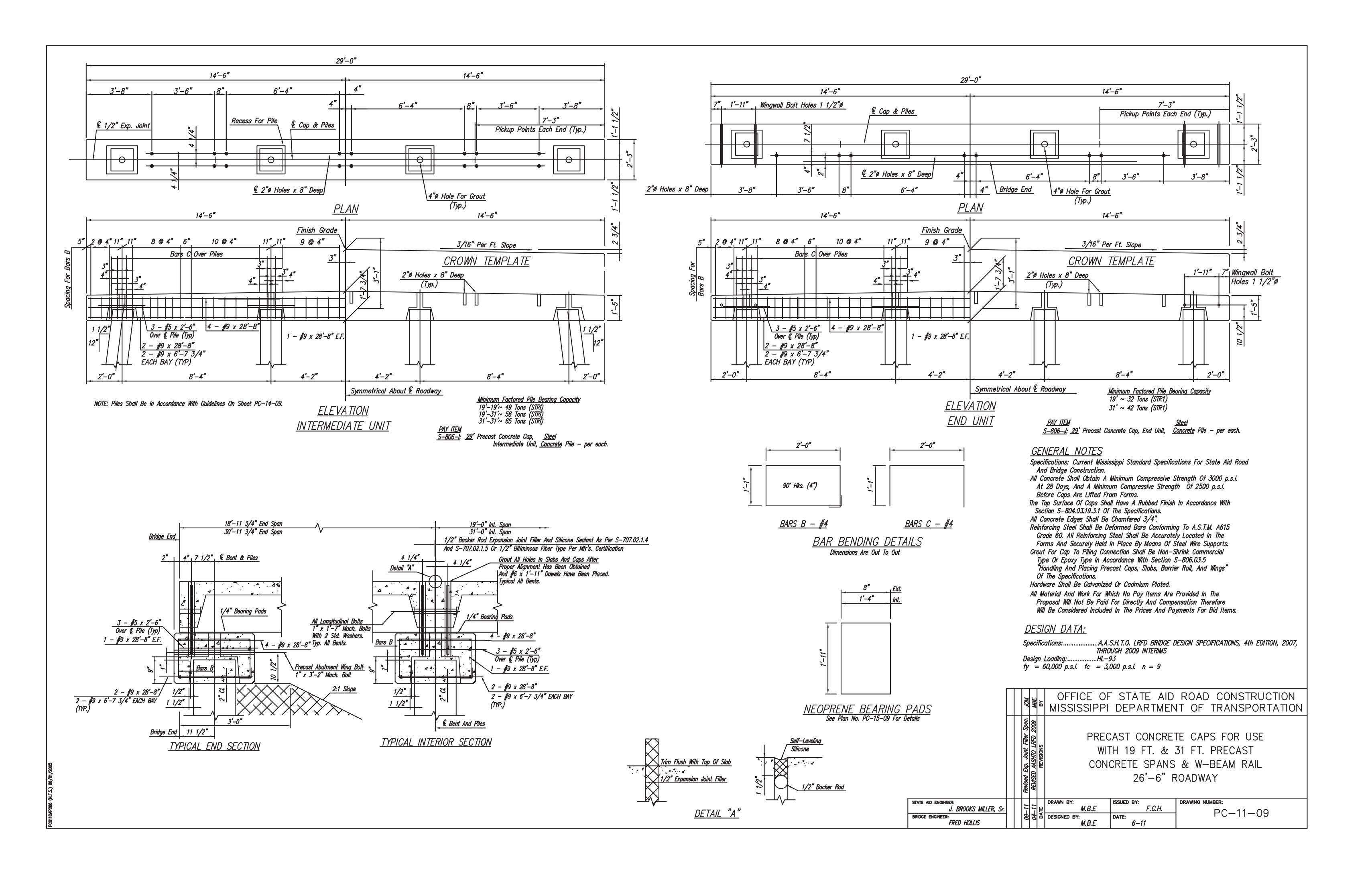
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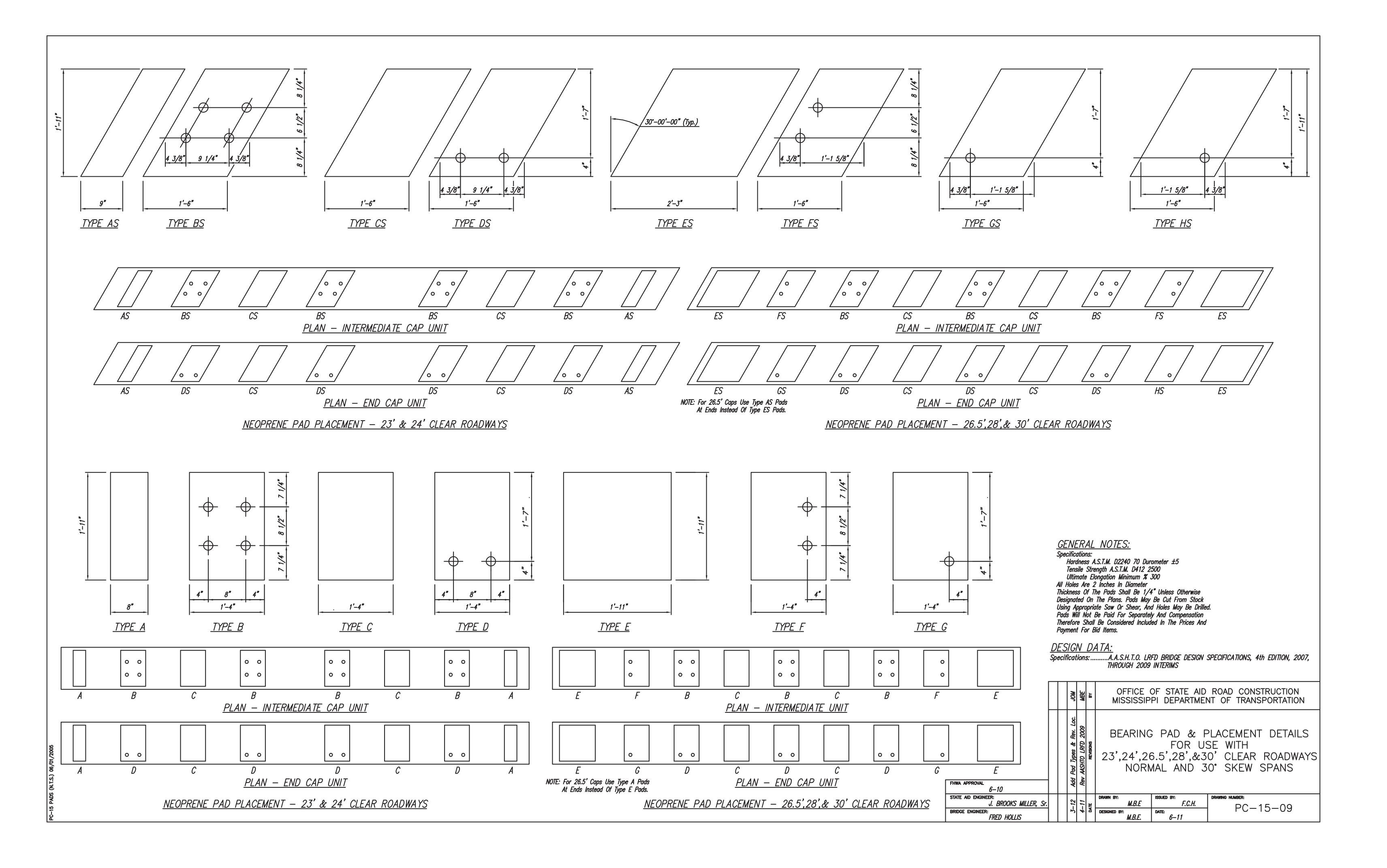
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DOUBLE YELLOW DELINEA				
NOTE: DELINEATORS S NS US WITH 1/4" DIA.				
NOTE: DELINEATORS S	BHALL BE FASTENED TO U BLIND FASTENERS OF TH		TYPE.	
AIL				
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NOTES: DELINEATORS AND TYPE 3 OBJECT MARKER SHA	II RE DEELECTIVE SUEE	TINC		
ON Ø.080" THICK ALUMINUM SHEET OR 14 GAGE				
DELINEATOR, TYPE 3 OBJECT MARKER AND DIST SHALL BE GALVANIZED STEEL. THE POSTS SHAL				
METAL IS GALVANIZED.				
WEIGHT WITHOUT GROUND PLATES: A. DELINEATOR POST 7'-0" - 2.0 Ib/ft TO 2.5				
B. TYPE 3 OBJECT MARKER POST 9'-0" - 2.5 IL C. DISTANCE REFERENCE SIGN POST 10'-0", 11'-				
& 12'-0" - 3.0 Ib/f+ TO 3.5 Ib/f+ UNIT PRICE OF DELINEATORS AND TYPE 3 OBJ	TOT MARKERS SUALL THE			
COST OF POST. DISTANCE REFERENCE SIGN POS				
RADIUS IN BENDS OF POST CROSS SECTION NO ROLLED SECTION.	T TO EXCEED ¹³ / ₃₂ For H	ОТ		
GROUND PLATE NOT REQUIRED ON U-SECTION F	POST.			
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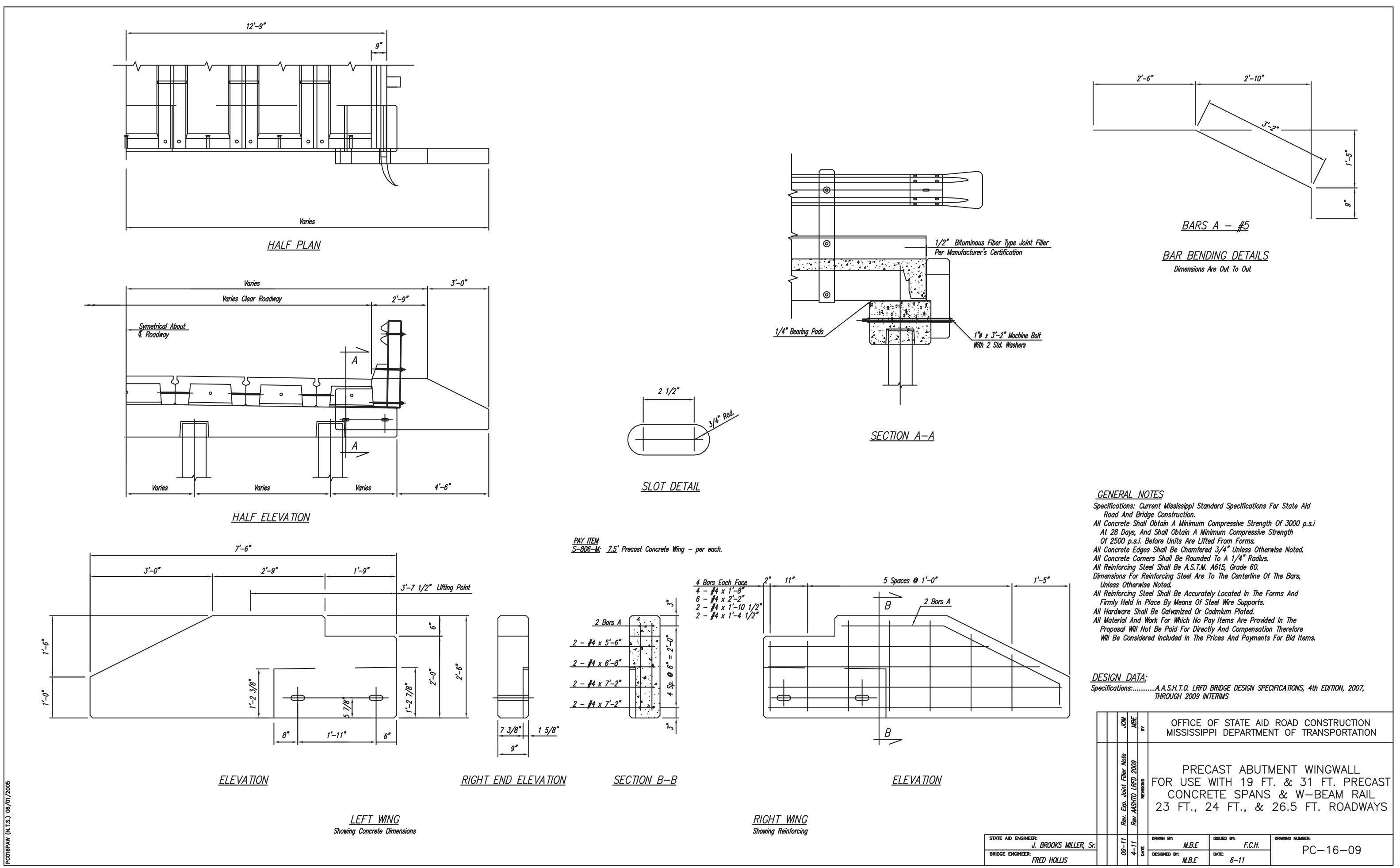


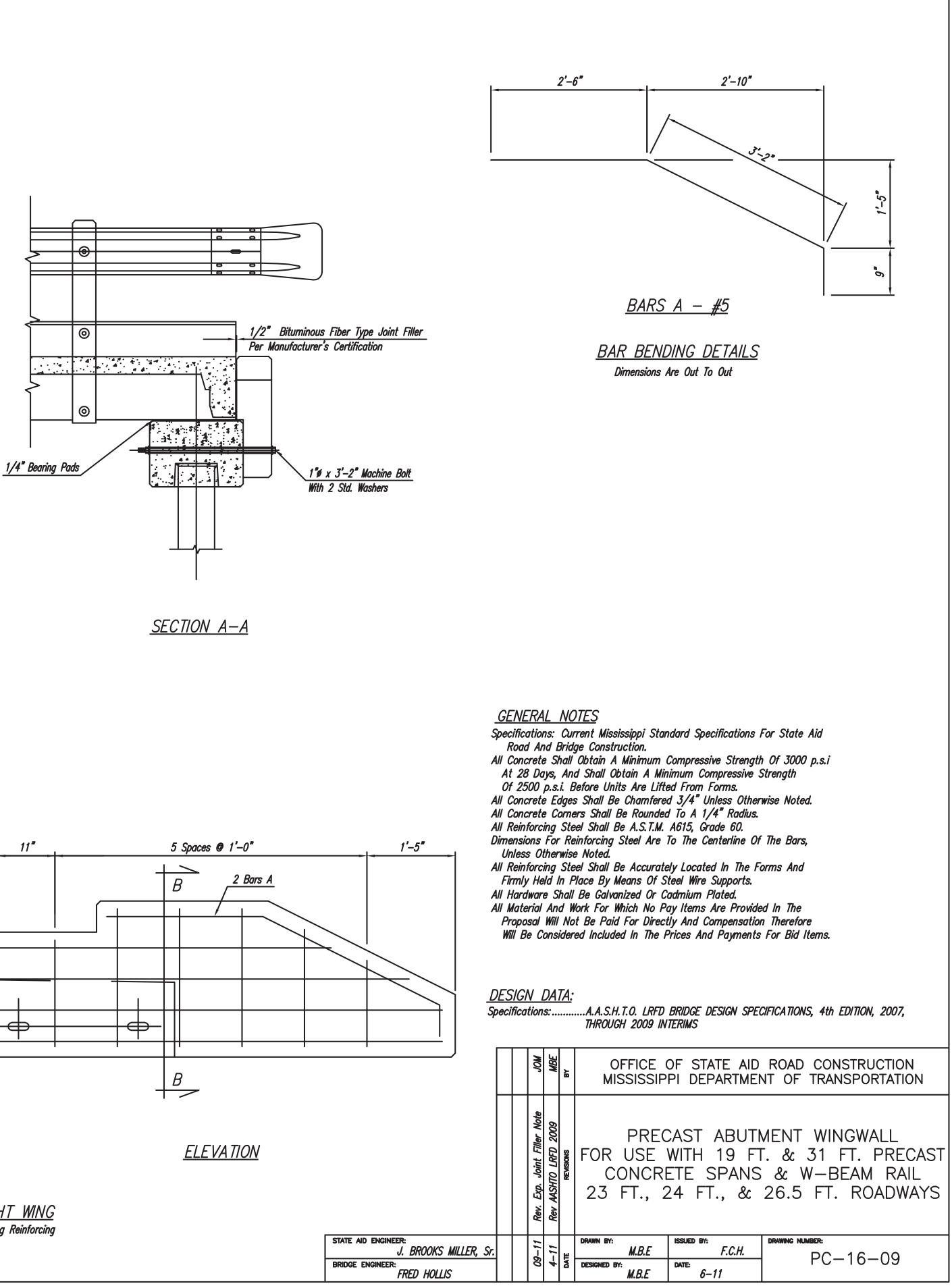


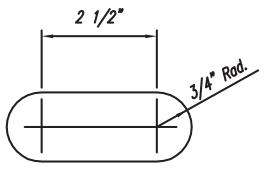




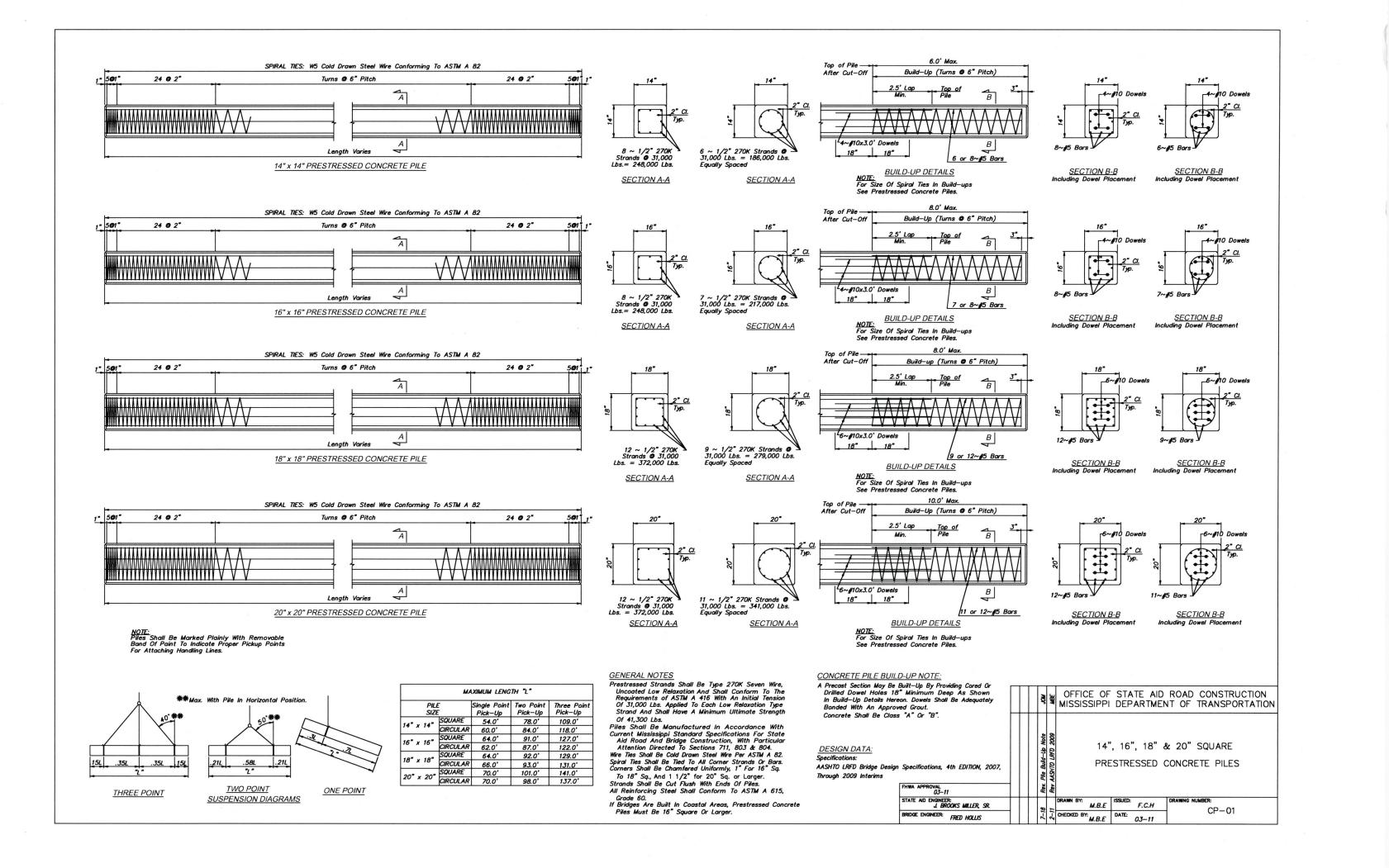






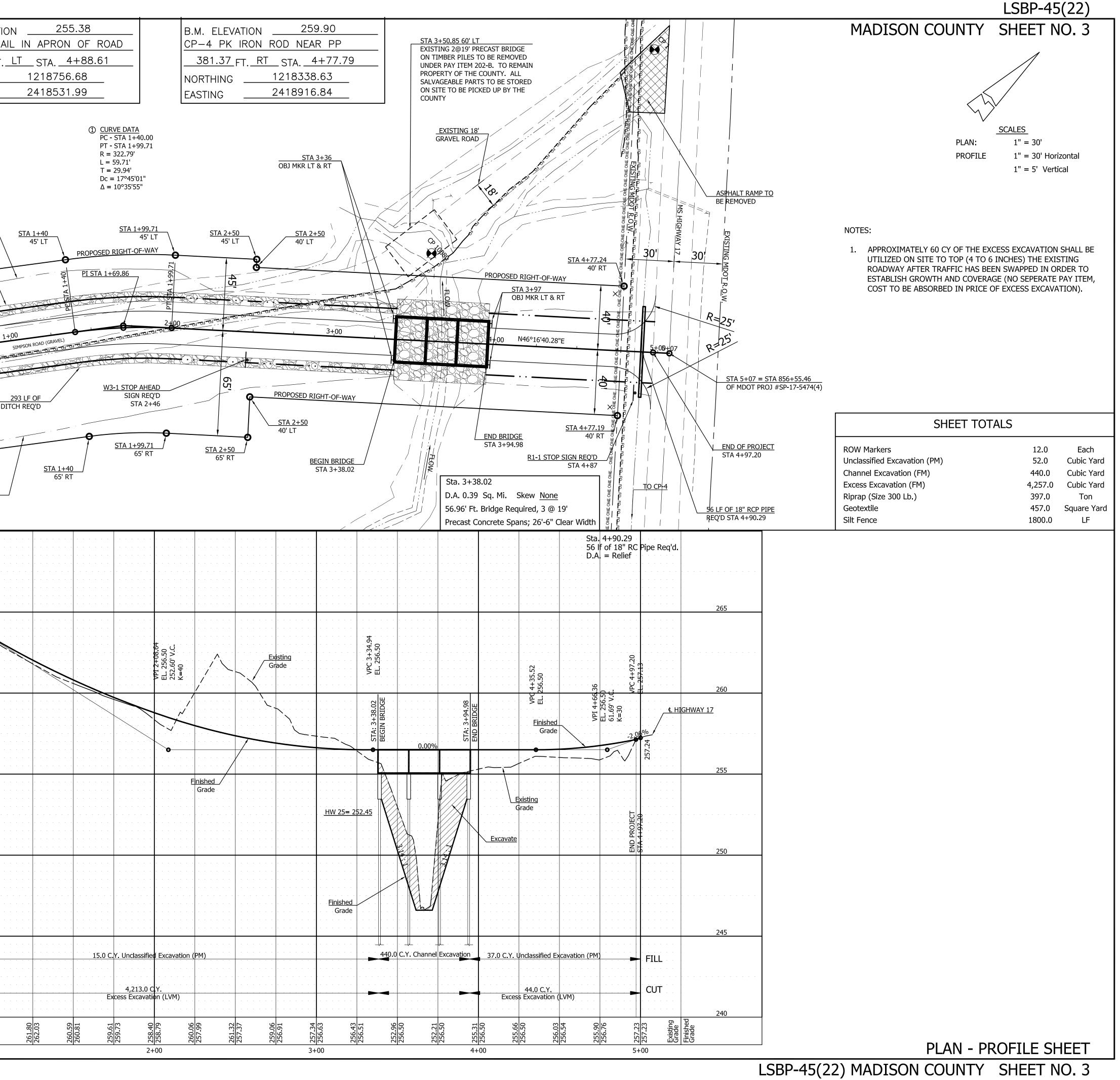






	262 E. L. 264. E. 2
SIMPSON ROAD	C 0+82.34
SHRINKAGE FACTORUnclassified Excavation= 1.40Granular Material(Cl. 5, Gp. "C") (LVM)(Cl. 5, Gp. "C") (LVM)= 1.50Crushed Stone= 1.80DESIGN DATA= 30 MPHCurrent ADT (2020)= 20 (MDOT)	EXISTING 18' GRAVEL ROAD STA 0+41.63 65' RT CONSTRUCTION LIMITS
Sea Level Datum Elevations Referenced To Cross Roads As Shown On USGS Quad Topographic Map Drainage Area Taken From USGS Topographic Maps and Stream Stats Website	
Cameron Community Water System, Inc. (Phone 601-854-6231) P.O. Box 674 Canton, MS 39046 MS One Call Locate Number: 20020613350724 <u>GENERAL NOTES</u> Existing Utilites Conflicting With Proposed Construction To Be Adjusted By Others In Accordance With Section II -2 - 8 Of The S.O.P. Disturbed Area = 0.694 acres <u>HYDRAULIC DESIGN</u> < 25 Acres - Rational Method > 25 Acres - "Flood Frequency of Rural Streams In Mississippi, 2013" USGS Elevations Based On Mean	EASTING 2418528.94 EASTING EASTING EASTING EASTING EASTING
UTILITY OWNERS AT&T Distribution (Phone 770-602-2121) 2310 7th Street Meridian, MS 39301 Cameron Community Water System, Inc.	B.M. ELEVATION 255.18 B.M. ELEVATION CP-10080 PK CNTR BRDG EAST SIDE CP-1 PK N/ 54.11 FT. LT. STA. 3+57.52 186.75 FT. NORTHING 1218570.23 NORTHING NORTHING

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MND-001 Rev. 2011 PERMIT NO.

Mississippi Department of Transportation Completion of Work Certification

This permit requires that the named applicant submit the following certification with signature(s) and insure proper filing with MDOT's District Permit Department before the permit is closed and all associated bonds are released:

Permit Representative's signature(s) acknowledges the following:

We/(I), certify that the requirements of this permit have been constructed as stated in the approved final permit. Furthermore, no work performed as an exercise of the approved permit, has been relocated or altered without such change being shown on an approved revision of the permit or approved addenda thereto.

Printed Name of Applicant

Signature of Applicant

Page <u>3</u> of <u>31</u>