GENERAL INDEX

BEGIN WITH

INCLUDED THIS

P]	PROJECT				
\boxtimes	ROADWAY	1			
\boxtimes	PERMANENT SIGNS	1001			
	TRAFFIC SIGNALS	2001			
	ITS COMPONENTS	3001			
	LIGHTING	4001			
	(RESERVED)	5001			
\boxtimes	ROADWAY STANDARD DWGS	6001			
	BOX CULVERT STD. DRAWINGS (LRFD) .	7001			
\boxtimes	BOX CULVERT STD. DRAWINGS (STD. SP	EC.)7501			
\boxtimes	BRIDGE	8001			
\square	CROSS SECTIONS	9001			

BRIDGE STRUCTURES REQ'D.

BRIDGE NO. 150.5 SR 35 @ BOKSHENYA CREEK STA. 1506 + 58.88 TO STA. 1509 + 61.13 SPANS: 3 @ 100' SKEW: NORMAL TO CENTERLINE TOTAL LENGTH: 302' - 3"

BRIDGE NO. 152.0 SR 35 @ LITTLE CONEHOMA CREEK STA. 1583 + 71.88 TO STA. 1586 + 58.63 SPANS: 2 @ 80', 1 @ 115' SKEW: 5° LT. FWD. TOTAL LENGTH: 277 - 3"

BOX BRIDGES REO'D.

NONE

SITE 2 BR. NO. 152.0

SITE 1 BR. NO. 150.5

 \triangleright

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED **STATE HIGHWAY FEDERAL AID PROJECT NO. BR-0023-02(058)**

SR 35 BRIDGE REPLACEMENT FROM THE LEAKE CO. LINE TO KOSCIUSKO **ATTALA COUNTY**



P.E. SP-0023-02(052) 103334/101000

STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	BR–0023–02(058)	1



DESIGN CONTROL				
65 MPH = V (SPEED DESIGN)				
(2019) = 4,700; ADI $(2039) = 6,600$				
DHV =30 : D =60 % T =2%				
PERMITS ACQUIRED BY MDOT				
WETLANDS AND WATERS PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):				
WATERS WETLANDS				
NATIONWIDE #14 N N				
NATIONWIDE (OTHER)* Y Y				
GENERAL* N N				
INDIVIDUAL (404)*				
* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR				
STORMWATER PERMIT				
Y REQUIRED, CNOI SUBMITTED BY MDOT (DISTURBED AREA = 5 ACRES)				
S REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)				
N NO STORMWATER PERMIT REQUIRED (<1 ACRE)				
APPROVED BY:				



FMS. CONST. NO. 103334/301000

DESCRIPTION OF SHEET

TITLE SHEET, DETAILED INDEX, AND GENERAL NOTES - (5)

TITLE SHEET DETAILED INDEX DETAILED INDEX GENERAL NOTES GENERAL NOTES

1st O.REV.

TYPICAL SECTIONS - (5)

TYPICAL SECTIONS - SR 35 NEW CONSTRUCTION TYPICAL SECTIONS - SR 35 WIDENING & OVERLAY TYPICAL SECTIONS - SR 35 DETOUR TYPICAL SECTIONS - BRIDGE END SHOULDER DETAIL TYPICAL SECTIONS - BRIDGE END PAVEMENT DETAIL & PAVED APRON

QUANTITY SHEETS - (11)

SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES

ESTIMATED QUANTITIES - REMOVAL ITEMS ESTIMATED QUANTITIES - EARTHWORK AND GUARDRAIL ESTIMATED QUANTITIES - PAVEMENT MARKINGS AND BRIDGE END PAVEMENT ESTIMATED QUANTITIES - BOX CULVERTS, PIPES, & EROSION CONTROL ESTIMATED QUANTITIES - DRIVEWAYS, SIDE DRAINS, AND PAVED FLUMES ESTIMATED QUANTITIES - STANDARD ROADSIDE SIGNS ESTIMATED QUANTITIES - TRAFFIC CONTROL ITEMS ESTIMATED QUANTITIES - TRAFFIC CONTROL SIGNS

RIGHT-OF-WAY AND EASEMENT COORDINATE SHEETS (1)

RIGHT-OF-WAY AND EASEMENT COORDINATES

PLAN & PROFILE SHEETS - (4)

STA. 1499+50.00 TO STA. 1516+50.00 - SITE 1 STA. 0+00.00 TO STA. 17+12.56 - SITE 1 DETOUR STA. 1576+50.00 TO STA. 1593+00.00 - SITE 2 STA. 0+00.00 TO STA. 16+53.06 - SITE 2 DETOUR

SPECIAL DESIGN SHEETS - (17)

CONSTRUCTION SIGNING

TRAFFIC	CONTROL	PLAN	-	PHASE	1	(SITE 1))
TRAFFIC	CONTROL	PLAN	-	PHASE	2	(SITE 1)
TRAFFIC	CONTROL	PLAN	-	PHASE	3	(SITE 1)
TRAFFIC	CONTROL	PLAN	-	PHASE	1	(SITE 2)
TRAFFIC	CONTROL	PLAN	-	PHASE	2	(SITE 2	2)
TRAFFIC	CONTROL	PLAN	-	PHASE	3	(SITE 2	2)

GUARDRAIL (TEMPORARY): TYPICAL INSTALLATION AT DETOUR BRIDGE ENDS

PAVEMENT MARKINGS (SITE 1) - STA. 1499+50.00 TO STA. 1516+50.00 PAVEMENT MARKINGS (SITE 2) - STA. 1576+50.00 TO STA. 1593+00.00

EROSION CONTROL PLAN - SITE 1 EROSION CONTROL PLAN - SITE 1 - RIPARIAN BUFFER DETAILS EROSION CONTROL PLAN - SITE 1 - DETOUR EROSION CONTROL PLAN - SITE 2 EROSION CONTROL PLAN - SITE 2 - RIPARIAN BUFFER DETAILS EROSION CONTROL PLAN - SITE 2 - DETOUR

VEGETATION SCHEDULE

PERMANENT SIGNING PLANS - (2)

PERMANENT SIGNING PLAN - SITE 1 PERMANENT SIGNING PLAN - SITE 2

			FMS C	ON: 103334/301000
			STATE	PROJECT NO.
			MISS.	BR-0023-02(058)
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NO.	SH. NO.	DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
		STANDARD DRAWINGS - ROADWAY DESIGN SHEETS (2017) - (60)		
_	1	BRIDGE END PAVEMENT WITH RATE OVERLAY AND SLEEPER SLAB (NEW CONSTRUCTION)	BF - 1	6007
DI-1	2	BRIDGE END PAVEMENT RAIL (33.5" RAIL HEIGHT)	BER-1	6009
DI-2 GN-1	5 4	RUMBLE STRIPES 2-LANE HIGHWAYS (ASPHALT LANES, 2-FT ASPHALT SHOULDERS)	RS-1	6Ø64
GN-2	5	TYPICAL TEMPORARY EROSION CONTROL / SEDIMENT CONTROL APPLICATIONS DETAILS OF SEDIMENT BARRIER APPLICATIONS	ECD-1 ECD-2	61Ø1 61Ø2
		DETAILS OF SILT FENCE INSTALLATION	ECD-3	6103
TS-1	6	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION CONTROL MEASURES (SILT FENCE	ECD-4	6104
TS-2 TS-3	7 8	AND HAY BALE DITCH CHECKS) DETAILS OF EROSION CONTROL WATTLE DITCH CHECK	ECD-5 ECD-6	61Ø5 61Ø6
TS-4	9	DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK	ECD-7	6107
12-2	10	ROCK FILTER DAM	ECD-8 ECD-9	6109
		ROCK DITCH CHECK WITH SUMP EXCAVATION AND ROCK FILTER DAM TYPICAL APPLICATIONS AND DETAILS FOR INLET CONSTRUCTION	ECD-1Ø FCD-11	611Ø 6111
SQ-1	11	INLET PROTECTION DETAILS FOR SEDIMENT CONTROL STONE ON GRADES AND SAGS	ECD-12	6112
SQ-2 SQ-3	12	INLET PROTECTION DETAILS OF WATTLES INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE	ECD-13 ECD-14	6114
EQ-1	14	INLET PROTECTION DETAILS OF SANDBAGS STABILIZED CONSTRUCTION ENTRANCE	ECD-15 ECD-16	6115 6116
EQ-2	15	TEMPORARY CULVERT STREAM CROSSING	ECD-17	6117
EQ-4	17	TEMPORARY STREAM DIVERSION (BOX EXTENSION)	ECD-19	6119
EQ-5 EQ-6	18 19	FLOATING TURBIDITY CURTAIN DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK	ECD-2Ø ECD-21	612Ø 6121
EQ-7	2Ø 21	SEDIMENT RETENTION BARRIER DETAILS OF TYPICAL DITCH TREATMENTS	ECD-22	6122 6123
EQ-0	21	DITCH TREATMENT INSTALLATION DETAIL FOR SOIL REINFORCING MAT	DT-1A	6124
		TYPICAL TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND TYPE A SILT BASIN) EROSION CONTROL BLANKET	BAS-A ECB-1	6125 6131
RCS-1	22	GUARDRAIL: "W" BEAM (WOOD POSTS) GUARDRAIL: THRIE BEAM (WOOD POSTS)	GR-1 GR-1A	62Ø1
		GUARDRAIL: "W" BEAM (STEEL POSTS)	GR-1B	6203
3	23	GUARDRAIL:BRIDGE END SECTION-TYPE I (WOOD POSIS)(NEW CONSTRUCTION) GUARDRAIL:BRIDGE END SECTION-TYPE I (STEEL POSTS)(NEW CONSTRUCTIØN)	GR-2F GR-2G	621Ø 6211
3A ⊿	24 25	GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR 2-LANE, 2-WAY HIGHWAY	GR-4A GR-BR	6215 6218
4A	26	GUARDRAIL: MISCELLANEOUS HARDWARE	GR-HW	6221
		STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION	SN-4 SN-4A	6306 6307
CS-1	27	TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS	SN-8	6314 6317
	21	SIGNING DETAILS FOR BRIDGE APPROACHES	SN-9	6318
TC-1 TC-2	28 29	TRAFFIC CONTROL PLAN WITH FLAGGER (ONE-LANE CLOSURE OF TWO-WAY TRAFFIC) SHORT DURATION CLOSING OF TWO-LANE TWO-WAY HIGHWAYS	TCP-1 TCP-6	6351 6356
TC-3 TC-4	3Ø 31	HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	TCP-8	6358
TC-5	32			
16-6	33			
SD-TGR-1	34			
PM-1 PM-2	35 36			
ECP-3	37			
ECP-RB-S	58 39	PS & E PLANS - 06/10/19		
ECP-4 FCP-RB-4	4Ø 41	FMS CON. # 103334/301000		JSPORTATION
ECP-4A	42	DATE SHEET NO. BY	X	
VS-1	43	Ø7-Ø8-19 23,24,25,26,37,39, 4Ø,&42 JMR		MUMININ M. REEL
		07-15-19 10 & 11 JMR		ENGINEER
	1001			12253 a
PSP-2	1002			OF MISSIS

	, Z	MISSISSIPPI DEPARTMENT OF TRANSPORTATION DETAILED INDEX
	REVISION	PROJ. NO.: BR-0023-02(058)
		COUNTY: ATTALA DI-1
Π	DATF	FILENAME: DI.DGN Sheet NUMBER design team FA checked Date 2

DESCRIPTION OF SHEET

<u>STANDARD DRAWINGS - ROADWAY DESIGN SHEETS (2017) - (CONTINUED)</u>

TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO-LANE ROADS TRAFFIC CONTROL PLAN: UNEVEN PAVEMENT DETAILS TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE AND 4-LANE DIVIDED HIGHWAYS LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLE) TRAFFIC CONTROL DETAILS DRUM PLACEMENT AND SHOULDER CLOSURE RIGHT-OF-WAY MARKER RURAL DRIVEWAYS TYPICAL GRADING TRANSITION BETWEEN CUTS AND FILLS MISCELLANEOUS DETAIL SHEET, 1. STACKED PIPE JOINTS, 2. EXCAVATION AT GRADE POINTS DETAILS OF PAVED FLUMES PIPE CULVERT INSTALLATION FLEXIBLE PIPE CULVERT INSTALLATION CONCRETE PIPE COLLAR FLARED END SECTION FOR CONCRETE PIPE

BRIDGE (BOX CULVERT) STANDARD DRAWINGS - 1997 (7)

COLLAR DETAILS FOR BOX STRUCTURES EXTENSION DETAILS FOR LENGTHENING EXISTING BOX CULVERTS BASIC CULVERT DWG - SINGLE CELL - HEIGHT 6 FT. - SPANS 6-20 FT. BASIC CULVERT DWG - SINGLE CELL - HEIGHT 6 FT. - SPANS 6-20 FT. WINGS W/ 3:1 SLOPES - SINGLE CELL - HEIGHT 6-12 FT. - SPANS 6-24 FT. WINGS W/ 3:1 SLOPES - SINGLE CELL - HEIGHT 6-12 FT. - SPANS 6-24 FT.

<u>CROSS SECTIONS - (39)</u>

MAINLINE (SR 35) - SITE 1 - STA. 1498+00.00 TO STA. 1517+50.00 DETOUR (SR 35) - SITE 1 - STA. 0+00.00 TO STA. 17+12.56 MAINLINE (SR 35) - SITE 2 - STA. 1575+00.00 TO STA. 1595+00.00 DETOUR (SR 35) - SITE 2 - STA. 0+00.00 TO STA. 16+53.06

TOTAL SHEETS (EXCLUDING BRIDGE SHEETS) - 151 (SEE SHEET 8001 FOR BRIDGE SHEETS)

WKG.	SH.
NO.	NO.
TCP-9	6359
TCP-12	6362
TCP-13	6363
TCP-15	6365
TCP-16	6366
RW-1	6401
RD-1	6403
GT-1	6404
MDS-1	6425
PF-1	6426
PI-1	6501
PI-2	6502
PC-1	6503
FE-1	6530
CJ-1-97	75Ø4
CX-1-97	75Ø6
BS-6-2W-97	75Ø7
BS-6-2W-97	75Ø8
WS-3-97	7515
WS-3-97	7516
WS-3-97	7517

9001-9010
9011-9019
9020-9030
9031-9039

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	MISS.	BR-0023-02(058)
MISSISSIPPI DEPARTMENT (OF TRAN	SPORTATION
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PROJ. NO.: BR-0023-02(058)		WORKING NUMBER
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DESIGN TEAM FA CHECKED	DATE	3

GENERAL NOTES

- 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) 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.
- (5) 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.
- (6) THE TOP THREE FEET AND VARIABLE OF THE DESIGN SOIL (BOTH NATURAL AND EMBANKMENT) SHALL BE CONSTRUCTED OF SOIL CLASSIFIED AS B–9 OR BETTER, PER AASHTO DESIGNATION M 145–91, EXCEPT AT UNDERCUT LOCATIONS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER TO RECEIVE CLASS B-9-6 BORROW EXCAVATION. EXTREME CARE SHALL BE EXERCISED IN UNDERCUT AREAS, AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS AS DIRECTED THEY THE ENGINEER. FOR ADDITIONAL DETAILS THE CONTRACTOR IS REFERRED TO THE NOTICE TO **BIDDERS ON DESIGN SOIL MATERIAL IN THE CONTRACT PROPOSAL DOCUMENT.**
- (7) ALL PIPE JOINTS ARE TO BE WRAPPED IN 24-INCH WIDE TYPE V GEOTEXTILE FABRIC. ALL PICKUP HOLES SHALL BE PLUGGED WITH PLASTIC INSERTS AND BITUMINOUS SEALER TO THE SATISFACTION OF THE ENIGINEER (NOT A SEPARATE PAY ITEM).
- (8) VOIDS CREATED BY THE REMOVAL OF, BUT NOT LIMITED TO, POSTS, CONCRETE ANCHORS, AND FOOTINGS SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE COST OF WHICH WILL BE ABSORBED IN OTHER ITEMS BID.
- (9) UTILITIES ON THE DRAWINGS ARE SHOWN IN THEIR ORIGINAL LOCATION BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. UTILITIES THAT WERE FOUND TO BE IN CONFLICT WITH CONSTRUCTION HAVE BEEN RELOCATED. PERMITS ARE ON FILE WITH THE DEPARTMENT SHOWING THE APPROXIMATE LOCATION OF UTILITIES **RELOCATED WITHIN THE RIGHT-OF-WAY. THE ENGINEER CAN NOT AND DOES NOT WARRANT THAT THIS INFORMATION IS** COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.
- (10) WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING, OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURES ADJACENT TO THE EXCAVATION. ALL COSTS FOR DESIGNING, DRAWING, AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE PRICE **BID FOR CONTRACT ITEMS.**
- (11) SOME WORK IS REQUIRED OUTSIDE THE PROJECT LIMITS, NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK EXCEPT AS PROVIDED BY SPECIFIC PAY ITEMS INCLUDED IN THE PLANS.
- (12) WIRE FENCE BACKING WILL BE REQUIRED FOR ALL SILT FENCE. (SEE WK. NO. ECD-3)
- (13) FULL COLLARS ARE TO BE USED AT ALL BOX CULVERT EXTENSIONS AND AT ALL BOX CULVERT CONSTRUCTION JOINTS. (SEE WK. NO. ICJ-1 FOR DETAILS)
- (14) FOR LIST OF PUBLIC UTILITIES, SEE WK. NO. 3.
- (15) 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.
- (16) VEGETATIVE MATERIAL WILL BE REMOVED PRIOR TO PLACEMENT OF GRANULAR MATERIAL. THE COST OF WHICH SHALL BE ABSORBED IN OTHER ITEMS BID.

GENERAL NOTES (CONT.)

- PRIOR TO FABRICATION.
- THAT DO NOT APPLY TO THE CURRENT PHASE.
- A SEPARATE PAY ITEM. COST TO BE ABSORBED IN OTHER ITEMS BID.
- BID.
- ABSORBED IN OTHER ITEMS BID.
- (22) THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE FOR APPROVAL.
- PLACEMENT OF THE EXISTING TOPSOIL IS TO BE ABSORBED IN OTHER EARTHWORK ITEMS.
- CLEARING LIMITS AT OTHER LOCATIONS SHOULD STILL APPLY.
- NECESSARY WITH THE APPROVAL OF THE PROJECT ENGINEER.
- STRAIGHTNESS.
- OF COLOR.
- **CONTROL SHEETS.**
- BIDDER'S RESPONSIBILITY TO CHECK AND SEE IF ANY ADDENDA HAVE BEEN POSTED FOR THIS PROJECT.

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(CONT)		

(17) ALL DIMENSIONS AND SPACINGS FOR BRIDGE RAIL CONNECTORS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR

(18) THE CONTRACTOR SHALL COVER ANY TEMPORARY TRAFFIC CONTROL SIGNS SHOWN IN THE TRAFFIC CONTROL PLAN

(19) REMOVAL OF RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH REQUIRED CONSTRUCTION IS NOT CONSIDERED

(20) REMOVAL OF OBJECT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM, AND SHALL BE ABSORBED IN OTHER ITEMS

(21) WHERE MILLING IS REQUIRED, THE CONTRACTOR SHALL PROVIDE OUTLETS IN THE EXISTING SHOULDERS AT SUFFICIENT INTERVALS TO PREVENT POOLING OR STANDING WATER ON THE MILLED SURFACE, THE COST OF WHICH SHALL BE

RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION. ANY ADDITIONAL SILT BASINS NOT SHOWN IN THE PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S EROSION CONTROL PLAN PRIOR TO SUBMITTING

PRIOR TO EARTHWORK OPERATIONS, THE EXISTING TOP 6" TOPSOIL IS TO BE STRIPPED AND STOCKPILED. AFTER THE GRADING OPERATIONS ARE COMPLETED, SAID TOPSOIL SHALL BE PLACED ON ALL AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE PROTECTED, IN ACCORDANCE WITH SECTION 211 OF THE SPECIFICATIONS, OR THE VEGETATION SCHEDULE (SEE WK. NO. VS-1). EXISTING TOPSOIL AND ALL COSTS ASSOCIATED WITH STRIPPING, HAULING, STOCKPILING, AND

(24) FOR CLEARING LIMITS ADJACENT TO THE STREAMS AT STATIONS 1508 + 00 & 1585 + 00, SEE WORKING NUMBERS ECP-RB-3 AND ECP-RB-4. THE CLEARING LIMITS SHOWN ON THESE SHEETS ARE ONLY FOR THE RIPARIAN BUFFER.

(25) THE CONTRACTOR IS RESPONSIBLE FOR FIELD-VERIFICATION OF EXISTING GRADES AND MAKING ADJUSTMENTS AS

TEMPORARY STRIPING SHALL CONFORM TO FINISHED STRIPE SPECIFICATIONS FOR ALIGNMENT, NEATNESS, AND

(27) IF COLORS ARE USED ON PLAN/PROFILE SHEETS, THEY ARE INTENDED TO VISUALLY EASE THE LOCATION OF ELEMENTS FOR USERS OF THESE DRAWINGS. ALTHOUGH THE INTENT IS TO CATEGORIZE EVERYTHING AS EITHER EXISTING OR PROPOSED, IT IS THE END USER'S RESPONSIBILITY TO ENSURE ALL ELEMENTS ARE INTERPRETED CORRECTLY, REGARDLESS

(28) SEE BRIDGE PLANS FOR DETAILED INDEX SHEET(S), ESTIMATED AND SUMMARY OF QUANTITY SHEETS, AND EROSION

(29) ALL ADDENDA TO THESE PLANS WILL BE POSTED TO 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

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L			Å	MISSISSIPPI DEPARTMENT OF TRAN GENERAL NOTES	SPORTATION
			REVISION	PROJ. NO.: BR-0023-02(058)	WORKING NUMBER
				COUNTY: ATTALA	GN-1
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				DESIGN TEAM	4

GENERAL NOTES (CONT.)

- (30) THE COST FOR REMOVAL OF ALL HEADWALLS AND WINGWALLS (PIPES, BOX CULVERTS, AND BOX BRIDGES) SHALL BE **ABSORBED IN OTHER ITEMS BID.**
- (31) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND RELOCATING MAIL BOXES AS NECESSARY TO MAINTAIN CONTINUOUS MAIL SERVICE THROUGHOUT THE LIFE OF THE PROJECT, THE COST OF WHICH SHALL BE **ABSORBED IN OTHER ITEMS BID.**
- (32) THE BRIDGE DECKS SHALL BE GROOVED AND ALL BRIDGE JOINTS SHALL BE SEALED PRIOR TO OPENING THE BRIDGES TO TRAFFIC.
- (33) STORAGE OF FLAMMABLE MATERIALS WILL NOT BE ALLOWED UNDER ANY BRIDGE STRUCTURES.
- (34) INSTALLATION DATES SHALL BE CLEARLY WRITTEN IN BOLD BLACK MARKINGS ON THE BACK BOTTOM HALF OF ALL SIGNS WITH A PERMANENT MARKING STICK THAT IS WATERPROOF, FADE RESISTANT, AND MARKS ON WET OR DRY SURFACES.
- (35) ALL POST, PIPE, AND I-BEAM LENGTHS IN THESE PLANS ARE ESTIMATES. POST LENGTHS FOR ALL SIGNS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION.
- (36) ALL EXISTING SIGNS WHICH ARE TO BE REMOVED AS A PART OF THIS PROJECT THAT ARE NOT IN CONFLICT WITH CONSTRUCTION SHALL REMAIN IN PLACE UNTIL NEW SIGNS ARE INSTALLED UNLESS NOTED OR DIRECTED OTHERWISE BY THE PROJECT ENGINEER. ROADWAY SIGNS THAT ARE IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, THE COST OF WHICH SHALL BE ABSORBED IN OTHER ITEMS BID.
- (37) ALL EXISTING SIGNS AND SUPPORTS REMOVED UNDER THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ARE NOT A SEPARATE PAY ITEM.
- (38) DIRECT-APPLIED LEGEND, BORDER, AND/OR SHIELDS ARE TO BE USED ON ALL GUIDE SIGNS. DIGITALLY PRODUCED SIGN COPY, SHIELDS, LEGEND, SYMBOLS, OR IMAGES WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM MDOT'S **PROJECT ENGINEER.**
- (39) EXISTING DRAIN PIPES, CULVERTS, CROSS DRAINS, AND OTHER DRAINAGE STRUCTURES THAT ARE TO REMAIN SHALL BE CLEANED OF SILT, TRASH, AND DEBRIS SATISFACTORILY TO THE ENGINEER. ALL COSTS OF SAID CLEANING WILL BE CONSIDERED SUBSIDIARY TO THE CONTRACT AND WILL NOT BE MEASURED AND PAID FOR DIRECTLY. EXISTING DRAIN PIPES, CULVERTS, SIDE DRAINS, AND CROSS DRAINS WITHIN THE PROJECT LIMITS THAT ARE NOT TO BE UTILIZED SHALL BE REMOVED OR COMPLETELY PLUGGED WITH FLOWABLE FILL, AND THE COST TO BE ABSORBED IN OTHER ITEMS BID.
- (40) ALL PAVEMENT MARKING SHALL BE FIELD LOCATED BY THE ENGINEER AND THE CONTRACTOR AT THE NEAREST **PRACTICAL LOCATION INDICATED ON THE PLAN SHEETS.**
- (41) ALL PROPOSED PAVEMENT MARKINGS, GUARDRAIL, AND PERMANENT SIGNING SHALL BE INSTALLED BEFORE OPENING THE NEW FACILITY TO TRAFFIC, UNLESS DIRECTED AND SPECIFICALLY APPROVED OTHERWISE BY THE ENGINEER.
- (42) DOUBLE DROP THERMOPLASTIC WILL BE USED ON ALL BRIDGE DECKS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT PREFORMED JOINT MATERIAL. ANY DAMAGE CAUSED BY THE THERMOPLASTIC WILL BE REPAIRED AT NO COST TO THE STATE.
- (43) PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO CONTACT MR. JAMES MOONEY OF TEXAS EASTERN AT (662) 289–2991 OR (601) 594–9264 ABOUT CONSTRUCTION GUIDELINES NEAR THEIR GAS PIPELINE.

	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
GENERAL NOTES	JF TRAN	SPORTATION
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ISION		
		DF MISSISS
PROJ. NO.: BR-0023-02(058)		WORKING NUMBER
		GN-2 Sheet Number
DESIGN TEAM FA CHECKED	DATE	5

SAFETY EDGE TOP 2 LIFTS (NOT A PAY NEW CONSTR	REQ'D ONLY ITEM) UCTION	12 LE OF REPOSE PERMITTED	
	ORIGINAL		3 ^{:1} FILL SECTION
	GRUUND		(IF REQ'D.)
 4 2.25" 19-m 5 8.00" CRUS 6 16" & VAR 7 36" & VAR 8 RUMBLE S DENOTES E 	m, ST, ASPHALT PAVEMENT (1 SHED STONE BASE W∕GEOTEX HABLE DEPTH GRANULAR SHO RIABLE DEPTH BORROW MAT TRIPE REQ'D EXCESS EXCAVATION REQ'D ↓ INDICATES AREA TO B THE VEGETATION SCHE	1 @ 2.25") REQ'D. (TILE FABRIC TYPE V (NON-Y OULDER MATERIAL (CLASS 3 TERIAL (CLASS B9-6) REQ'D SE TREATED IN ACCORDANC DULE. SEE WK. SH. NO. VS-1.	WOVEN) 3, GROUP "D") E WITH
		FILL SECTION 1' MIN. –	3:1







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DULY AND POWERED DEPARTMENT OF TRANSPORTATION TY TO			STATE	PROJECT NO.
2029 AUT 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 0000 1000 1000 1000	DATA FOR PAVEMENT DETERMI 2019 ADT = $4,700$	NATION Current	MISS.	BR-0023-02(058)
ORIGINAL ORIGIN	$\begin{array}{rcrcrcccccccccccccccccccccccccccccccc$	Design		
ORIGINAL ORIGIN	$ D = \frac{730}{60} \% \\ T = \frac{12}{9} \% $	of DHV of ADT		
ORIGINAL ORIGIN	$T (Total) = \frac{12}{1,445} \%$ 18K (Rigid) = $\frac{1,445}{1,445}$	of ADT 1000		
ORIGINAL GROUND 31 B VID 31 B	18K (Flex) = <u>935</u> / Design CBR =	1000		
ORGINAL GROUND 3.1 8 VM 3.1 8 VM 4.1 100 5.1 100 5.				
ORIGINAL GROUND 31 & VAR MISSISSIPPI DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS SR 35 WIDENING & OVERLAY PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA STATE RUSHER TS-2 STATE RUSHER TS-2 STATE RUSHER TS-2				
ORIGINAL GROUND 3.1 9 VM 3.1 9 VM WITH IN LAST 100:				
ORIGINAL GROUND 318 UN 318 UN				
ORIGINAL GROUND 31.8 UM AND ANGLE OF REPO DOP 2 LIES ONLY NOT APA TIEN OVERLAY ANGLE OF REPOSE DERVITED WIDTH IN LAST 100:		SHO	DULDER	
ORIGINAL GROUND 31.8 VM T T SAFETY EDGE REOD TOP 2 LIFTS ONLY (NOT A PAY ITEN) OVERLAY MIDTH IN LAST 100: TOP TYPICAL SECTIONS SR 35 WIDENING & OVERLAY PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA FTI FNAME: TSJON FTI FNAME: TSJON TS-2 SHEET IN-MEER 7			, , , , , , , , , , , , , , , , , , ,	
ORIGINAL GROUND 3.1 & VM WIDTH IN LAST 100'.			30° - 35°	
GROUND 3.1 & V/M 3.1	ΟΒΙGΙΝΔΙ	\		
SAFETY EDGE RECO TOP 2 LIFTS ONLY (NOT A PAY ITEM) OVERLAY	GROUND			
31.8 VM NOT A PAY ITEM OVERLAY 31.8 VM 7 12 ANGLE OF REPOSE PERMITTED WIDTH IN LAST 100'. PERMITTED WIDTH IN LAST 100'. MISSISSIPPI DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS SR 35 SR 35 WIDENING & OVERLAY PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA FILENAME: TS.DQN DOI: TS.DQN BISID TIME FALL SHEET NUMBER 7	INR.	SAFETY E TOP 2 L	DGE REQ'D IFTS ONLY	
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NOTES:

- 1. WHEN NO LONGER NEEDED, THE DETOUR SHALL BE REMOVED TO
- 3. AREA (B) & (C) WILL BE INCLUDED IN THE REMOVAL OF THE DETOUR





SECTION A-A

- 1 TOP 2 LIFTS OF ASPHALT AS SHOWN ON TYPICAL SECTION.
- (2) TOP LIFT OF ASPHALT TO BE TAPERED
- 3 VAR. DEPTH CRUSHED STONE BASE W/GEOTEXTILE FABRIC TYPE V (NON-WOVEN)
- (4) VAR. DEPTH GRANULAR MATERIAL (CLASS 3/GROUP D) REQ'D



DETAIL OF PAVED SHOULDERS AT BRIDGE ENDS

(SEE SECTION "A"-"A")

EDGE OF PAVED SHOULDE



30:1 OR 15:1 TAPER EXTENSION

(SEE GUARD RAIL INSTALLATION SHEETS FOR OTHER DETAILS)

SEE X-SECTIONS

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DETAIL "A"

^TFACE G'RAIL

NOT TO SCALE

TERMINAL SECTION FLARE OFFSET (4' NORMAL)

_					
				MISSISSIPPI DEPARTMENT OF TRAN	SPORTATION
				SR 35 BRIDGE END SHOULDER DETAIL	OF MISSISS
				PROJ. NO.: BR-0023-02(050)	WORKING NUMBER
				COUNTY: ATTALA	TS-4
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				DESIGN TEAM FA CHECKED DATE	9









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	SUMMARY OF QUANTITIES (SHEET 1)			
PAY ITEM NO.	PAY ITEM	UNIT	ATTALA : 10333	84-301000 Final
201-A001	Clearing and Grubbing	LS	1	
201-B001	Clearing and Grubbing	ACRE	1	
202-A001	Removal of Obstructions	LS	1	
202-B007	Removal of Asphalt Pavement, All Depths	SY	11.114	
202-B158	Removal of Guard Rail, Including Rails, Posts and Terminal Ends	LF	1.220	
202-B191	Removal of Pipe, 8" And Above	LF	48	
202-B241	Removal of Traffic Stripe	MI	1	
202 <u>82 11</u> 203-A001	Unclassified Excavation EM AH	CY	6 537	
203-FX020	Borrow Excavation AH EME Class B9	CY	34 914	
203-FX021	Borrow Excavation, AH, FME, Class B9-6	CY	2 967	
203 EX021	Channel Excavation, FM	CY	1 158	
203-G001	Excess Excavation FM AH	CY	23 725	
206-A001	Structure Excavation		<u> </u>	
206-B001	Select Material for Undercute Contractor Furnished FM		24	
209-4005	Geotextile Stabilization Type V Non-Woven	SY SY	<u>د م</u> ۲ م م	
213-001	Superphosphate		6	
215 C001 216-Δ001	Solid Sodding	SY	197	
210 A001 217-A001	Ditch Liner	SY	245	
217 A001 210-A001	Watering	KGAL	<u>ک</u> جک	
219-A001 220-A001	Insect Pest Control		6	
220-A001 221_A001	Concrete Payed Ditch		21	
221-A001 222_A001	Mowing		11	
223-A001	Soil Doinforcing Mat	ACKL CV	1 426	
227-A001 225-A001	Graccing		11	
225-AUUI	Agricultural Limostono		21	
225-0001	Mulch Vogotativo Mulch		21	
225-001	Tomporany Crassing		11	
220-AUUI	Temporary Glassing	ACRL	6.940	
234-AUUI	Temporary Sill Fence		0,840	
235-AUUI	Vertice 20"		150	
237-AUUZ	Wattles, 20 th		150	
245-AUUI	SIIT DIKE		150	
246-AUU2	Sandbags	EA	450	
247-AUU1	Discont for English Control			
249-AUU1	Kiprap for Erosion Control	TON	122	
304-B002	Granular Material, Class 3, Group D	TON	10,350	
304-F001	3/4" and Down Crushed Stone Base	TON	2,900	
	OR			
304-F002	Size 610 Crushed Stone Base	TON	2,900	
304-F003	OR Size 825B Crushed Stone Base		2 000	
5011005			2,500	
403-A002	12.5-mm, MT, Asphalt Pavement	TON	1,583	
403-A005	19-mm, MT, Asphalt Pavement	TON	448	

FMS: 103334-301000

		STATE	PROJECT NO.				
		MISS	BR-0023-02(058)				
1	Includes, but not limited to, aprons, parapets, fence, footings, and/or other underground obstructions.						
2	For tempor	ary easement	S				
3	Br. No. 150 Br. No. 152	0.5, Spans 7 @ 2.0, Spans 5 @	20' 20'				
4	Includes removal of bridge end section, terminal end section, rail, posts, blockouts, hardware, etc. (as measured from beginning of bridge end section to end of terminal end section), and object						
5	Does not in	iclude abando	ned utility lines.				
6	Includes 15 underdrain	54 SY adjacen outlet aprons	t to paved flumes and 43 SY around at bridge ends.				
7	Includes 20)% increase fr	om calculated quantity.				
8	To be used	for unsuitable	e material found at box culverts.				
9	Includes 1 aprons.	8 CY for pave	d flumes and 3 CY for underdrain outlet				
10	Required at box culvert extension.						
(11)	Relocated channel sta. 1508+00 to sta. 1512+50 RT						
(12)	Includes 60)3 tons for dri	veways.				
(13)	Includes 48 CY for box culverts and 17 CY for pipe culverts.						

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JMR	By	MISSISSIPPI DEPA SUMMARY OF QUA	ARTMENT NTITIES	OF TRANS	SPORTATION
Revised Quantity	Revision		-02(058)		PROFESSION PROFESSION 7-15-19 12253 OF MISSISS
		COUNTY: ATTALA	-02(038)		SQ-1
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	SUMMARY OF QUANTITIES (SHEET 2)			
PAY ITEM NO.	UNIT	ATTALA : 10333	4-301000	
			Prelim	Final
403-A006	19-mm, ST, Asphalt Pavement		1,475	
403-A014	9.5-mm, MT, Asphalt Pavement		1,600	
406-D001	Fine Milling of Bituminous Pavement, All Depths	SY	4,744	
407-A001	Asphalt for Tack Coat	GAL	2,306	
413-E001	Sawing and Sealing Transverse Joints in Asphalt Pavement		188	
423-A001	Rumble Strips, Ground In		1	
502-A001	Reinforced Cement Concrete Bridge End Pavement	SY	404	
601-A001	Class "B" Structural Concrete	CY	63	
601-B001	Class "B" Structural Concrete, Minor Structures	CY	1	
602-A001	Reinforcing Steel	LBS	9,196	
603-ALT003	18" Type A Alternate Pipe		200	
603-ALT006	24" Type A Alternate Pipe		48	(1)
603-CA026	24" Reinforced Concrete Pipe, Class III	LF	48	
603-CB004	24" Reinforced Concrete End Section	EA	1	
605-AA001	Geotextile for Subsurface Drainage, Type III	SY	152	
605-T001	4" Perforated Pipe for Underdrains	LF	216	
605-U001	4" Non-perforated Pipe for Underdrains	LF	72	
605-W001	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM	CY	10	
605-W002	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM	CY	136	
	OR			
605-W003	Filter Material for Combination Storm Drain and/or Underdrains, Type C, FM	CY	136	
606-B001	Guard Rail, Class A, Type 1	LF	550	
606-D022	Guard Rail, Bridge End Section, Type I	EA	8	
606-E005	Guard Rail, Terminal End Section, Flared	EA	8	
615-A002	Concrete Bridge End Barrier, 33.5"	LF	80	
617-A001	Right-of-Way Marker	EA	23	
618-A001	Maintenance of Traffic	LS	1	
618-C001	Construction and Removal of Detour Bridge (Site 1 - Sta 7+73 to Sta 9+10)	LS	1	
618-C001	Construction and Removal of Detour Bridge (Site 2 - Sta 8+05 to Sta 9+95)	LS	1	
618-E001	Detour Bridge Piling	LF	5,125	
618-F001	Detour Bridge PDA Test Pile	LS	1	
619-A1003	Temporary Traffic Stripe, Continuous White, Paint	LF	11,412	
619-A2003	Temporary Traffic Stripe, Continuous Yellow, Paint	LF	5,532	
619-A2008	Temporary Traffic Stripe, Continuous Yellow, Type 1 or 2 Tape	LF	3,900	
619-A4003	Temporary Traffic Stripe, Skip Yellow, Paint	LF	3,400	
619-A5003	Temporary Traffic Stripe, Detail, Type 1 Tape	LF	5,000	
619-C7001	Two-Way Yellow Reflective High Performance Raised Marker	EA	85	
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	128	
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	559	
619-F3001	Delineators, Guard Rail, White	FA	32	
619-G4001	Barricades, Type III, Double Faced	IF	24	
619-G4005	Barricades, Type III, Single Faced		144	
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	SUMMARY OF QUANTITIES (SHEET 3))		
	DAV ITEM		ATTALA : 1033	34-301000
PAT ITEM NO.			Prelim	Final
619-G5001	Free Standing Plastic Drums	EA	81	
619-G7001	Warning Lights, Type "B"	EA	6	
619-K1001	Installation and Removal of Guard Rail, Type I, Class A	LF	200	
619-K2001	Installation and Removal of Guard Rail, Bridge End Section	EA	8	
619-K4001	Installation and Removal of Guardrail, Terminal End Section	EA	8	
620-A001	Mobilization	LS	1	
621-A001	Field Laboratory	EA	1	
626-C001	6" Thermoplastic Double Drop Edge Stripe, Continuous White	LF	6,680	
626-D002	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow	LF	3,340	
626-E002	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow	LF	800	
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	EA	43	
630-A003	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness	SF	43	
630-C003	Steel U-Section Posts, 3.0 lb/ft	LF	75	
630-F006	Delineators, Guard Rail, White	EA	40	
630-G005	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted	EA	8	
699-A001	Roadway Construction Stakes	LS	1	
815-A007	Loose Riprap, Size 300	TON	2,780	
815-E001	Geotextile under Riprap	SY	3,417	
815-F002	Sediment Control Stone	TON	50	

FMS: 103334-301000

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		REI	MOVAL	OF	PAVEMENT
WORK. SH. NO.	STATION	TO STATION	ASPHALT		REMARKS
3	1504 + 25	1507 + 09	884		
3	1508 + 49	1512 + 75	1,325		
3A	0+70	7 + 73	1,590		DETOUR ROAD
3A	9+10	16 + 42	1,668		DETOUR ROAD
4	1579 + 75	1584 + 49	1,475		
4	1585 + 58	1589 + 50	1,220		
4A	0 + 70	8+05	1,669		DETOUR ROAD
4A	9+95	15.83	1,283		DETOUR ROAD
		UNIT	SQ. YD.		
		TOTAL	11,114		

	REM	OVAL	OF OF	BSTRU	CTIONS
WORK. SH. NO.	STATION T	O STATION	SPA	NS	REMARKS
3	1507 + 07	1508 + 47	7 @	20′	EXISTING BR. NO. 150.5
4	1584 + 50	1585 + 50	5 @	20′	EXISTING BR. NO. 152.0
		UNIT	LUMP SUM		
		TOTAL	100%		

REIV	10VAL	OF	PIP	ES 8	" & ABOVE
WORK. SH. NO.	STATION	LIN. FT.	SIZE	TYPE	REMARKS
3	1514 + 11	25	24″	RCP	
3	1515 + 53	23	18″	CMP	
	UNIT	LIN. FT.			
	TOTAL	48			

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WORK.	STATION	LIN.	REMARKS		
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3	1508 + 47	105	RT.		
4	1584 + 50	105	LT.		
4	1584 + 50	200	RT.		
4	1585 + 50 1585 + 50	190	BT.		
-					
	UNIT	LIN. FT.			
	TOTAL	1,220			
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										MISS.	BR-0023-02(058)
			ESTIMATED	EA	RTHWORK	QU	ANTITIES	S			
WK. SH. NUMBER	CUT	FILL	BORROW (B9)	BORROW (B9–6)	UNCLASSIFIED EXCAVATION	EXCA\ EXCESS	/ATION CHANNEL		REMARKS		
3	2,587	9,909	7,839			11,163		MAINLINE			
3A	566	14,307	13,854				1,158	DETOUR			
4	2,927	6,565	4,223	2,967		12,562		MAINLINE			
4A	457	9,363	8,997					DETOUR			
UNITS	CY	CY	CY	CY		CY	CY				
SUB-TOTALS	6,537	40,144	34,914	2,967		23,725	1,158				
			CUT = UNCLASSIF	IED EXCAVATION =	6,537						
BORROW (B9)	= FILL - (CUT	[∕1 + S.F.)	=								
4	0,144 - (6,537 /	(1 + 0.25))	=								
		UNITS	S CY	CY	СҮ	CY	CY				
		TOTAL	.S 34,914	2,967	6,537	23,725	1,158				

			G	UARI	DRAI	L R	EQUI	RED			
WORK NO.	STATION	STATE STD. (INSTAL.)	DIST. A	DIST. B	DIST. C	DIST. D	GUARD RAIL	TERMINAL SECTION	BR. END SECTION TYPE "I"	WHITE DELIN.	REMARKS
3	1506 + 48.88	GR–4A	155.65′	112.5′			112.5′	1	1	6	RIGHT
3	1506 + 48.88	GR–4A			68.15′	25.0′	25.0′	1	1	4	LEFT
3	1509 + 71.13	GR–4A			68.15′	25.0′	25.0′	1	1	4	RIGHT
3	1509 + 71.13	GR–4A	155.65′	112.5′			112.5′	1	1	6	LEFT
4	1583 + 59.96	GR–4A	155.65′	112.5′			112.5′	1	1	6	RIGHT
4	1583 + 63.80	GR–4A			68.15′	25.0′	25.0′	1	1	4	LEFT
4	1586 + 67.20	GR–4A			68.15′	25.0′	25.0′	1	1	4	RIGHT
4	1586 + 71.04	GR–4A	155.65′	112.5′			112.5′	1	1	6	LEFT
	UNITS						FEET	EACH	EACH	EACH	
	TOTALS						550.0′	8	8	40	

		TEM	PORA	RY	GU	ARD	RAIL REQUIRED
WORK NO.	STATION	STATE STD. (INSTAL.)	GUARD RAIL	TERMINAL SECTION	BR. END SECTION TYPE "H"	WHITE DELIN.	REMARKS
3A	7 + 73.00	SDTGR-1	50	2	2	8	4 DELIN. LT, 4 DELIN. RT, 25' GUARDRAIL LT, 25' GUARDRAIL RT
3A	9+10.00	SDTGR-1	50	2	2	8	4 DELIN. LT, 4 DELIN. RT, 25' GUARDRAIL LT, 25' GUARDRAIL RT
4A	8+05.00	SDTGR-1	50	2	2	8	4 DELIN. LT, 4 DELIN. RT, 25' GUARDRAIL LT, 25' GUARDRAIL RT
4A	9+95.00	SDTGR-1	50	2	2	8	4 DELIN. LT, 4 DELIN. RT, 25' GUARDRAIL LT, 25' GUARDRAIL RT
		UNITS	FEET	EACH	EACH	EACH	
		TOTALS	200	8	8	32	

FMS CON: 103334/301000	FMS	CON: 103334/301000
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	ΒY	MISSISSIPPI DEPARTMENT OF TRAN ESTIMATED QUANTITIES	SPORTATION
	REVISION	SR 35 EARTHWORK & GUARDRAIL	9 12253 9 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
		PROJ.NO.: BR-0023-02(058) COUNTY: ATTALA	WORKING NUMBER
	DATE	FILENAME: EQ.DGN DESIGN TEAM FA CHECKED DATE	SHEET NUMBER 15

																												S	STATE	PROJECT NO
																												1	MISS.	BR-0023-02(058
							5	5UM	MAR	Y	C)F		PA	/EM	ENT		MA	RKII	NGS										
WK. SH.	STATION			P/	AINT						THI D	ERMO DUBL)PI E	LAS [®] DRC	TIC)P				HIGH PERFORMANCE COLD PLASTIC OR INVERTED PROFILE THERMOPLASTIC				MARKERS				BFM		(S	
		CONTI	NUOUS	DETAU		SK	(IP	CONTIN	NUOUS	LEGEN	ND	EDGE		DETA	AIL	SK	IP		CON	rinuous	S	KIP	RED	YELL	0W	CLE	AR			
	STATION	WHITE	YELLOW	DETAIL	LEGEND	WHITE	YELLOW	WHITE	YELLOW	WHITE	WHITE	WHITE YELL	.0W	WHITE	YELLOW	WHITE	YELLOW		WHIT	YELLOW	WHITE	YELLOW	CLEAR	1 WAY	2 WAY	1 WAY	2 WAY			
PMD-1	1499 + 50 TO 1516 + 50								350			3.400					1,700								22					
PMD–2	1576 + 50 TO 1593 + 00								450			3,280					1,640								21					
	UNITS								LF			LF					LF								EACH					
	TOTAL								800			*6,680					**3,340								43					

* INCLUDES 1,150 LF FOR BRIDGES. ** INCLUDES 575 LF FOR BRIDGES

	BRIDGE END PAVEMENT REQUIRED																				
WORK NO.	BRIDGE ABUT. STATION	W_1	W ₂	W _B	W	А	В	ANGLE "Z"	PAV'MT.	JOINT	33.5″ RAIL	43.5″ RAIL	TYPE "A" FILTER MATERIAL	TYPE "B" OR "C" FILTER MATERIAL	4" PERFORATED DRAIN PIPE	4" NON-PERFORATED DRAIN PIPE	GEOTEXTILE TYPE III FABRIC	UNDER OUTLET NO.	APRON CONC.	SOLID SOD (2' AROUND OUTLET APRON)	REMARKS
3	1506 + 58.88	22	22	44	46.83	20	20	0	100.93	46.83	20		2.3	34.0	54	18	37.8	2	0.726	10.7	
3	1509 + 61.13	22	22	44	46.83	20	20	0	100.93	46.83	20		2.3	34.0	54	18	37.8	2	0.726	10.7	
4	1583 + 71.88	22	22	44	46.83	17.95	22.05	5	100.93	47.01	20		2.3	34.0	54	18	37.8	2	0.726	10.7	
4	1586 + 58.63	22	22	44	46.83	17.95	22.05	5	100.93	47.01	20		2.3	34.0	54	18	37.8	2	0.726	10.7	
								UNITS	SQ. YARDS	LIN. FEET	LIN. FEET		CU. YARDS	CU. YARDS	LIN. FEET	LIN. FEET	SQ. YARDS	CU. Y	/ARDS	SQ. YARDS	
								TOTAL	403.70	187.69	80		9.2	136.0	216	72	151.2	2.	.904	42.8	

* UNDERDRAIN OUTLET APRON TO BE PAID FOR AS CONCRETE PAVED DITCH (0.363 CY PER APRON)

TE REVISION	SR 35 PAVEMENT MARKINGS AND BRIDGE END PAVEMENT PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA FILENAME: EQ.DGN	WORKING NUMBER EQ.3 SHEET NUMBER
BΥ	ESTIMATED QUANTITIES	SPORIATION

					BOX	(CULVERT	-	requi	RED			
WK. SH. NO.	STATION	SIZE	LENGTH	SKEW	STANDARD DRAWINGS REQUIRED	CLASS "B" CONC.	REINF. Steel	STRUC. EST. DEPTH	EXCAV. CUBIC YARDS	SELECT MAT'L	MAX. Cover	COVER	
4	1590 + 45	8' X 6'	23' (LT.) 29' (RT.)	NONE	ICJ–1–97, ICX–1–97, IBS–6–2W–97, IWS–3–97	62.7	9,196	1′	48.0	23.2	10′	4'	1997 STANDARDS.
					UNITS	CU. YDS.	LBS.		CU. YDS.	CU. YDS.			
					TOTAL	62.7	9,196		48.0	23.2			

						PIPE		CUL\	/ER	Т	D	RAINAGE		STRUC	TURES	S	
WK.	OTATION				F	PIPE CUL	VERTS	E	ID S	ECTIC	ONS		CLASS "B"	STRUC.	EXCAV.		
он. NO.	STATION		ULASS	SKEVV	24″			24″					CONC. (MINOR)	DEPTH	YDS.		
4	1577 + 00	RCP		45° RT. FWD.	48′			1				PI-1, FE-1, PC-1	0.493	2.0′	17.0	4.0′	EX
				UNITS	<u>L.F.</u>			EA.					CU. YDS.		CU. YDS.		
				TOTALS	48			1					0.493		17.0		

				ESTIMAT	ED	EROSIO	N COM	ITROL	ITEMS	
WK. Sh. NO.	TEMPORARY EROSION CHECKS	WATTLES (20")	SANDBAGS	SILT DIKE	RIPRAP FOR EROSION CONTROL	SILT FENCE	TEMPORARY STREAM DIVERSION			REMARKS
ECP-3	23	50	149	50	40	3,040				
ECP-3A	17	36	108	36	30	650				
ECP-4	10	21	63	21	17	2,400	1			
ECP-4A	20	43	130	43	35	750				
UNITS	EACH	LF	EACH	LF	TON	LF				
TOTAL	70	150	450	150	122	6,840	1			

	ESTIMATED	PE	RMAN	ENT	ERO	SION	С	ONTRO	ITEMS	
WK. SH. NO.	STATION	DITCH LINER (SY)	SOIL REINF. MAT (SY)	300# RIP RAP (TON)	GEO- TEXTILE (SY)			REMARKS		
3	1500 + 50 - 1508 + 00, LT			1,280	1,579					
3	1504 + 50 - 1506 + 50, RT	89								
3	1506 + 50 - 1507 + 50, RT		89							
3	1508 + 00 - 1513 + 00, RT			1,360	1,674					
3	1512 + 00 - 1517 + 00, RT		312							
4	1576 + 00 - 1577 + 50, LT	67								
4	1577 + 00, RT			80	101	AT END	OF PIPE			
4	1578 + 00 - 1578 + 50, LT	22								
4	1578 + 50 - 1585 + 00, LT		579							
4	1580 + 50 - 1585 + 00, RT		401							
4	1586 + 00 - 1587 + 50, RT	67								
4	1590 + 50, LT			60	63	AT END	OF BOX	CULVERT		
4	1593 + 00 - 1593 + 50, RT		45							
	UNITS	SY	SY	TON	SY					
	TOTAL	245	1,426	2,780	3,417					

		STATE	PROJECT NO.
		MISS.	BR-0023-02(058)
REMARKS			
EXTENSION 23' LT. AND 29' RT.			
REMARKS			
TENSION, RT., 0.41 CY CONC. FOR COL	LAR, 0.083 CY CONC FO	R TOE W	ALL

		REV	EROSION CONTROL PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA	WORKING NUMBER
		REVISI	EROSION CONTROL	07 12253 02 1 77 07 MISSISS
		ION	BOX CULVERTS, PIPES, &	
			SR 35	MUMAN M. REF
	\prod	BY	MISSISSIPPI DEPARTMENT OF TRAN ESTIMATED QUANTITIES	SPORTATION

																				ST	ATE	Р
																				м	SS.	E
						VC	REU		n			חופ		2 V II								
							nlu		U			סוט	LUI		U)							
													LESS TH	AN 4	% *							
ΙΚ.		LT.	H \sim	H T T	O S	NO LI	ر ک ک ک		M A A		TYPE	A A	LT. PIPE	R.C.	P. CL. I	II LT.	,	WK.				
┥。	STATION	OR	DT.		A A	NON'S		CRI	ر من ت Z	REMARKS						OR	STATION	SH.				
).		RT.	W I (F		RE P	CT.	25°				18″ 24	" 3Ø	″ 36″ 48	" 18"	24″ 48	^{3″} RT.		NO.				
					4	A [°] ∧	~ ~ ~ ~	Ū	CL G								,					
	1514+11	RT.	16	6Ø	26.54	2.19	2.92		37.15	PIPE FROM DETOUR TO REMAIN						RT.	1514+11	3				
	1515+53		16	85	26.54	2.19	2.92		52.63		56	_		_			1515+53	3				
<u>A</u>	14+72	RT.	16	40	70.00	0.40			24.77		48	}				RT.	14+72	<u>3A</u>				
1	15/(+59		20	50	30.09	2.48	3.31		38.70	DRY		_					15/(+59	4				
}	$\frac{1578+21}{1591+00}$		16	100	26.54	2.19	2.92		61.92	DRY	10	_					1578+21	4				
	1501+00 1500±71	LI.	16	40	26.04	2.19	2.92		125 79		40						1500+71	4				
	1589+00		16	85	26 54	2.92	2 92		52 63								1589+00	<u>4</u> Д				
7	1+71	RT	16	95	20.37	2.15			58 82	DRY						RT	1+71	4Δ				
<u>,</u>	4+50		16	35					21.67	TEMPORARY PIPE	48						4+50	4A				
4	12+Ø6	LT.	26	35					35.22	TEMPORARY PIPE	48					LT.	12+06	4A				
4	12+Ø6	RT.	26	65					65.40	DRY						RT.	12+Ø6	4A				
					UNITS	TON	TON		TON		LF LF	-				UNI	TS					
				-	FOTALS	16.35	21.80		602.56		200 48	}				TOT	TALS					
									* TYPE A ZINC C ALUMIN POLYME REINFO CORRUC POLY V	ALT. PIPE: OATED CORRUGATED ME UM COATED CORRUGATE RIC COATED CORRUGAT RCED CONCRETE PIPE, (GATED POLYETHYLENE P 'INYL CHLORIDE (PVC)P	TAL PIF E METAL ED MET CLASS II PIPE OR IPE	PE,12 PIP AL P I OR	CAUGE E,14 GAU IPE,16 G	(2.67 JGE (2 AUGE	″ר.5Ø″ 2.67″ר. (2.67″>	CORRI Ø5″C Ø.5Ø″	UGATION) OF ORRUGATION 'CORRUGAT	? N) OR [ON) OR				

(CONCRET	ΓΕ ΡΑ	VED F	LUME	REQUIRED
WK.SH. NO.	STATION	APPROX. LENGTH	PAVED FLUME	SOLID SODDING	REMARKS
3	1506 + 48.88	100	5.20	44.4	RIGHT
3	1506 + 48.88	40	2.08	17.8	LEFT
3	1509 + 71.13	90	4.68	40.0	RIGHT
3	1509 + 71.13	45	2.34	20.0	LEFT
4	1586 + 67.20	35	1.82	15.6	RIGHT
4	1586 + 71.04	35	1.82	15.6	LEFT
		UNIT	CY	SY	
		TOTALS	17.93	153.3	

	MISSISSIPPI DEPARTMENT OF TRANS ESTIMATED QUANTITIES	SPORTATION
DEVICION	SR 35 DRIVEWAYS, SIDE DRAINS, AND PAVED FLUMES PROJ. NO.: BR-0023-02(058)	WORKING NUMBER
		EQ-3
	FILENAME: EQ.DGN S DESIGN TEAM FA CHECKED DATE	SHEET NUMBER

STANE	DARD R	OADSIL	DE SI	GNS	SHEET ALUMINUM 0.080" THICKNESS
IGN NO.	SIZE	UNIT AREA	QUAN.	TOTAL SIGN AREA	REMARKS
[-2	24" X 18"	3.00	NEQ D.	SQ.FT.	
N41 1					
M1 - 1	24" X 24"	4.00			
MI = I	20 X 24	5.00			
$\frac{1}{M1} = 2$	30" X 24"	5.00			
		5.00			
M1 - 5	24" X 24"	4.00			
M1 - 5	30″ X 24″	5.00			
M2 - 1	21" X 15"	2.19			
M3 - 1	24" X 12"	2.00			
M3 - 1	30" X 15"	3.13			
M3 - 2	24" X 12"	2.00			
M3 - 2	24" V 10"	2.15			
	ZA A 12"				
	24" X 15"				
MZ 4	Z4" X 12"	2.00			
IVIJ - 4	א שכ X 15"	3.13			
14 - 5	24" X 12"	2.00			<u> </u>
15 - 1L	21" X 15"	2.19			
M5 - 1R	21" X 15"	2.19			
15 - 21	21" X 15"	2.19			
15 - 2R	21" X 15"	2.19			
16 - 1L	21" X 15"	2.19			
16 - 1R	21" X 15"	2.19			
M6 - 2L	21" X 15"	2.19			
16 - 2R	21" X 15"	2.19			
M6 - 3	21" X 15"	2.19			
R1 - 1	36" OCTAGON	7.46			
R1 - 1	48" OCTAGON	13.25			
R1 - 2	48" X 48" X 48"	6.93			
R1 - 2	60" X 60" X 60"	10.83			
		+ +			
		┨			
		+ +			<u> </u>
	1	· ·			1

STAND	ARD	R	OADSI	DE	SIC	GNS	SHEET ALUMINUM 0.080" THICKNESS
SIGN NO.	SIZI	E	UNIT AREA SQ.FT.	QU RE	AN. Q'D.	TOTAL SIGN AREA SQ.FT.	REMARKS
R1 - 3	18″ X	9″	1.13				
R1 - 3	24″ X	12″	2.00				
R2 - 1	24" X	30" 18"	5.00				
$R_2 - 1$ R2 - 1	48″ X	40 60″	20.00				
R3 - 1	36″ X	36″	9.00				
R3 - 1	48″ X	48″	16.00				
R3 - 2	36″ X	36″	9.00				
R3 - 2	48″ X	48″	16.00				
$R_3 - 4$ $P_3 - 4$	26 X	סכ 48″	9.00				
R3 - 5L	30″ X	36″	7.50				
R3 - 5R	30″ X	36″	7.50				
R3 - 6L	30″ X	36″	7.50				
R3 - 6R	30″ X	36″	7.50				
R3 - 7L	36″ X	36″	9.00				
R3 - 7R	36″ X	36″	9.00				
R3 - 9B	24" X	36″	6.00				
R4 - 1	24° X 48″ X	50° 60″	5.00 20.00				
	24″ X	30″	5.00				
R4 - 2	48″ X	60″	20.00				
R4 - 7	48″ X	60″	20.00				
R4 - 8	48″ X	60″	20.00				
R5 - 1	48 X 42″ X	48 30″	16.00				
R6 - 1L	36″ X	12″	3.00				
R6 - 1R	36″ X	12″	3.00				
R6 - 2L	24″ X	30″	5.00				
R6 - 2R	24″ X	30″	5.00				
R12 - 1	24″ X	30″	5.00				
S1 - 1	36″ X	36″	9.00				
S4 - 3P	24″ X	8″	1.33				
S4 - 4P	24" X	10"	1.67				
30 - 2	24 X	שכ	5.00				
							///////////////////////////////////////
TOTAL	(Ø.Ø8	8Ø″	THICK	NES	S)		X/////////////////////////////////////

STAND	ARD R	OADSI	DE SI	GNS	SHEET ALUMINUM 0.125" THICKNESS
SIGN NO.	SIZE	UNIT AREA SO ET	QUAN. REQ'D.	TOTAL SIGN AREA SOLET	REMARKS
D1-2	30″X 24″	5.00			
R1 - 2	36"X36"X36"	3.90			
R2 - 1	30″ X 36″	7.50			
R5 - 1	36″ X 36″	9.00			
R15 - 1	48" X 9"	5.44			
W1 - 21		0.00			
W1 - 2L W1 - 2R	36" X 36"	9.00			
	30 X 30	5.00			
W1 - 4aL	36″ X 36″	9.00			
W1 - 4aR	36″ X 36″	9.00			
W1 - 7	48" × 24"	8.00			
W2 - 1	30″ X 30″	6.25	1	7	$\langle \mathbf{+} \rangle$
W2 - 2	30″ X 30″	6.25			Ý.
W2 - 7R	30″ X 30″	6.25			
W3 - 1a	36″ X 36″	9.00			
W3 - 3	48" X 48"	16.00			
W3 - 5	48" X 48"	16.00			
W4 - 1L	48" X 48"	16.00			
W4 - 1R	48″ X 48″	16.00			
W4 - 2L	36″ X 36″	9.00			
W4 - 2R	36″ X 36″	9.00			
W5 - 1a	48" X 48"	16.00			
W6 - 1	48" X 48"	16.00			
W6 - 2	48" X 48"	16.00			
WC 7					
W6 - 3	36" X 36"	9.00			
W8 - 1	48″ X 48″	16.00			
W8 - 4	48″ X 48″	16.00			
W8 - 6	48" X 48"	16.00			
W8 - 7	48" X 48"	16.00			
W8 - 9	48" X 48"	16.00			
W8 - 11	36" X 36"	9.00			
W8 - 13	36" X 36"	9.00	4	36	BRIDGE ICES BEFORE ROA
W1Ø - 1	36" DIA.	7.07			
W1Ø - 1	48" DIA.	12.56			
W13 - 1	24" X 24"	4.00			
W14 - 3	36"X48"X48"	5.56			
	48″X64″X64″	9.89			
W19 - 2	48" X 48"	16.00			
W2Ø - 1	48" X 48"	16.00			
W2Ø - 1	36" X 36"	9.00			
W2Ø - 2	48" X 48"	16.00			
W2Ø - 3	48" X 48"	16.00			
W2Ø - 4	48" X 48"	16.00			
W2Ø - 4B	48" X 48"	16.00			

					STATE	PROJECT	NC
				ŀ	MISS.	BR-0023-02	2(058
STAND	OARD R	OADSI	DE SI	GNS	SHEET A 0.125″ T	LUMINUM HICKNESS	
SIGN NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	RE	MARKS	
W21 - 2	36″ X 36″	9.00					
W21 - 3	48" X 48"	16.00					
W21 - 5 W21 - 6	48" X 48" 36" X 36"	16.00 9.00					
VP - IL VP - IR	12" X 36" 12" X 36"	3.00 3.00					
OM - 3L	12" X 36"	3.00					
OM - 3R	12" X 36"	3.00					
TOTAL	(Ø.125″	THICKN	NESS)	43			

NOTE:

IF ALTERNITE I (ALUMINIUM) IS SELECTED FOR STANDARD ROADSIDE SIGNS, SHEET ALUMINUM OF THE THICKNESSES SHOWN IN THESE TABLES SHALL BE USED. IF ALTERNATE II (STEEL) IS SELECTED, ALL STANDARD ROADSIDE SIGNS SHALL BE FABRICATED ON 14 GAGE SHEET STEEL.

	Ż	MISSISSIPPI DEPARTMENT OF TRAN ESTIMATED QUANTITIES	ISPORTATION
		SR 35 STANDARD ROADSIDE SIGNS	0 12253 0 0 0 0 0 0 0 0 0 0 0 0 0
		PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA	WORKING NUMBER
	L F C	FILENAME: EQ.DGN DESIGN TEAM FA CHECKED DATE	SHEET NUMBER

																																	STAT	E PROJEC
																																	MISS	. BR-0023-0
	Sl	JMN	/IAR	Y			OF			TRAF	FIC		CO	NTR	OL			ITE	EM S	S				REC	UIR	ED								
(7 eg 🖳			TEMPOR	ARY		TRAFFIC		STRI	PE			RAISED	MARKERS	BARR	ICADES	WARNIN	NG	9			TR	AFFIC		C	ONTROL			SIG	VS					
RKIN(MBEF SE 0		PAI	NT OR TAP	PE		TAPE		TAPE (TY	PE 1)			RED	2–WAY	ТҮ	PE III	LIGHTS	;	· STIC	-	- r		- N	m m	.		8	6L	م ا		- 1 B	=	3R 3L	REM	ARKS
NUN PHA:				DETAIL		ONT. YELLOW				DETAIL	LEGEND	CLEAR	YELLOW			E TYPE			- ממס	GZ0- R1-	R2-	R11-	R16-			M1–6	W1- W3-	W8-	W13 W20	W24	W24	-Mo		
						ITPE I UK II)		V	YELLOW																	-								
										C	O N S	5 T R L	JCTI	<u>0 N</u>		SIG	j N	N IN G																
CS–1															24	2			2	2	4		2				2		12					
UNITS	LIN. FT. LIN. I	FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	LIN. F1	LIN. FT. EAC	H EACH	EA	CH EACH EA	CHEA	CH EACH	EACH EA	CHEACH	EACH EAC	CHEACH	EACHE		ACHEACH	EACHEA		HEACH	EACHE	ACH EACH		
SUBTOTAL															24	2			2	2	4		2				2		12					
													SITE		0 N I																			
TC-1 1														42				26		3		2 3						2						
TC-2 2	2426 242	6				1950				2500			43	48		2		36		2		2				1	1		2	1	1	2 2		
TC-3 3	3400 350)	1700											48				27		2		2						2						
														ļ																				
UNITS	LIN. FT. LIN. I	FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	LIN. F1	LIN. FT. EAC	H EACH	EA	CH EACH EA	CHEA	CH EACH	EACH EA	CHEACH	EACH EAC	CHEACH	EACHE		ACHEACH	EACH EA		HEACH	EACHE	ACH EACH		
SUBTOTAL	5826 277	6	1700			1950				2500			43	48		2		36		3		2 3				1	1	2	2	1	1	2 2		
													SITE		ΤW	0																		
TC-4 1														96				45		4		2 4						2						
TC5 2	2306 230	6				1950				2500			42	48		2		36		2		2				1	1		2	1	1	2 2		
TC-6 3	3280 450)	1640											48				27		2		2						2						
UNITS	LIN. FT. LIN. I	FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	LIN. FT	LIN. FT. EAC	H EACH	EA	CH EACH EA	CHEA	CH EACH	EACH EA	CHEACH	EACH EAC	CHEACH	EACHE		ACHEACH	EACHEA		HEACH	EACHE	ACH EACH		
SUBTOTAL	5586 275	6	1700			1950				2500			42	96		2		45		4		2 4				1	1	2	2	1	1	2 2		
													Т	0	TALS	S																		
CON. SIGN.															24	2			2	2	4		2				2		12					
SITE 1	5826 277	6	1700			1950				2500			43	48		2	1	36		3		2 3				1	1	2	2	1	1	2 2		
SITE 2	5586 275	6	1700			1950		1		2500			42	96		2		45		4		2 4				1	1	2	2	1	1	2 2		
UNITS	LIN. FT. LIN. I	FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT. LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	LIN. F1	LIN. FT. EAC	H EACH	EA	CH EACH EA	CHEA	CH EACH	EACH EA	CHEACH	EACH EAC	CHEACH	EACHE	ACHE	ACHEACH	EACHEA		HEACH	EACHE	ACH EACH		
TOTAL	11412 553	2	3400			3900				5000			85	144	24	6		81 2	2	2 7	4 4	4 7	2			2	2 2	4	4 12	2	2	4 4		
UNITS	MILE MIL	.E	MILE																															
TOTAL	2.16 1.05	5	0.32																															

PLAN ROADWAY DESIGN DIVISION SSIPPI DEPARTMENT OF TRANSPOR

				Ш	PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA FILENAME: EQ.DGN	WORKING NUMBER EQ-7 SHEET NUMBER
				REVISION	OF MISS 55	
$\left \right $	╁┼	+		Β	ESTIMATED QUANTITIES	MILLIN M. RES
ſ	Π	Т	Γ	ВΥ	MISSISSIPPI DEPARTMENT OF TRAN	SPORTATION

		9	SIGNS	REQL	JIRED				S	SIGNS	REQU	IRED	
	SIGN NO.	SIZE	UNIT AREA SQ FT	QUAN. REQ'D.	TOTAL SIGN AREA SO ET	REMARKS		SIGN NO.	SIZE	UNIT AREA SO ET	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS
	G2Ø - 1	60" X 24"	10.00 ♦	2	20	ROAD WORK NEXT X X MILES		R1 - 3	18" X 9"	1.13			3-WAY, (1)
	G2Ø - 2	48" X 24"	8.00	2	16	END ROAD WORK		R1 - 3	24" X 12"	2.00			4 WAY ETC. (2)
	G2Ø - 4	36" X 18"	4.50			FOLLOW ME	-	$\frac{R2 - I}{R2 - 1}$	24" X 30" 36" X 48"	5.00 12.00 ♦	4	20	
							6	R2 - 1	48" X 60"	20.00			
1	M1 - 1	24" X 24"	4.00			1 OR 2 DIGIT		R3 - 1	36″ X 36″	9.00			
1	M1 - 1	30" X 24"	5.00			3 DIGIT	-	R3 - 1	48" X 48"	16.00 ♦			
2	M1 - 4	24" X 24" 30" X 24"	4.00			I OR 2 DIGIT		R3 - 2	36" X 36" 18" V 18"	9.00 16.00			
		JU X Z I	5.00			5 61011		R3 - 4	36" X 36"	9.00			
3	M1 - 5	24" X 24"	4.00			1 OR 2 DIGIT		R3 - 4	48" X 48"	16.00♦			
3	M1 - 5	30″X 24″	5.00			3 DIGIT		R3 - 5L	30" X 36"	7.50			ONLY
4	M3 – 1	24″ X 12″	2 00			NORTH- 1 OR 2	-	R3 - 5R R3 - 6I	30" X 36" 30" X 36"	7.50			
4	M3 - 1	30" X 15"	3.13			DIGII RIE. MARKER NORTH- 3 DIGIT RIE. MARKER		R3 - 6R	30″X 36″	7.50			
4	M3 - 2	24" X 12"	2.00			EAST- 1 OR 2 DIGIT RTE. MARKER		D3 71		6 25			LEFT LANE
4	M3 - 2	30" X 15"	3.13			EAST- 3 DIGIT RTE. MARKER SOUTH- 1 OR 2	-			0.23			TURN LEFT
4 4	M3 - 3 M3 - 3	24" X 12" 301" X 15"	2.00			DIGIT RTE. MARKER	-	R3 - 7R	30″ X 30″	6.25			MUST
4	M3 - 4	24" X 12"	2.00			DIGIT RTE. MARKER WEST- 1 OR 2 DIGIT RTE. MARKER			24" X 30"	5.00	4	20	
4	M3 - 4	30″ X 15″	3.13			WEST- 3 DIGIT RTE. MARKER		R4 - 1	48″ X 60″	20.00♦			DO NOT PASS
								R4 - 2	24" X 30"	5.00			PASS WITH CARE $\frac{1}{2}$
	M4 - 8	2 <i>/</i> ″ ∨ 12″	2 00			DETOUR- 1 OR 2			48" X 60"	20.00 ♦ 20.00 ♦			(2) T
	M4 - 8	24 × 12 30″ X 15″	3.13			DIGIT RTE. MARKER DETOUR- 3 DIGIT RTE MARKER		$\frac{R4 - 7}{R4 - 8}$	48″ X 60″	20.00			\ <u>'</u>
	M4 - 9	<u> </u>	12 00			DETOUR		R5 - 1	48" X 48"	16.00 ♦			DO NOT ENTER
		40 X J0	12.00 •			1		R5 - 1a	42" X 30"	8.75			WRONG WAY
	M4 - 9L	48″ X 36″	12.00 ♦			DETOUR		R6 - 1L	36" X 12"	3.00			
	M4 - 9BL	48″ X 36″	12.00 ♦					R6 - 2L	24" X 30"	5.00			
	M4 - 9SL	48″ X 36″	12.00 ♦			DETOUR		R6 - 2R	24" X 30"	5.00			ONE WAY
	M4 - 9BSL	48″ X 36″	12.00 ♦			DETOUR		D11 - 2	<u>48" X 301"</u>	10 00	7	70	ROAD CLOSED
	M4 - 9R	10" V 3C"	12 00			DETOUR		R11 - 3a	60" X 30"	12.50			ROAD CLOSED XX MILES AHEAD
		40 X 36	12.00 •			\rightarrow		R11 - 3b	60" X 30"	12.50 ♦			BRIDGE OUT XX MILES AHEAD
	M4 - 9BR	48″X 36″	12.00 ♦				-	R11 - 4	60" X 30"	12.50 ♦			TO THRU TRAFFIC
	M4 - 9SR	48″ X 36″	12.00 ♦			DETOUR		R12 - 1	36″ X 48″	12.00 ♦			LIMIT XX TONS
	M4 - 9BSR	48″ X 36″	12.00 ♦			DETOUR	7		36″ X 48″	12.00 ♦	2	24	WHEN WORKERS
	M4 - 10L	48" X 18"	6.00				67	KI6- 2	48" X 60"	20.00 ♦			SPEEDING FINES DOUBLED
	M4 - 1ØR	48" X 18"	6.00			DETOUR		W1 - 1		16 00			4
								W1 - 1R	48" X 48"	16.00			
4	M4 - 5	24" X 12"	2.00			ТО		W1 - 2L	48" X 48"	16.00 ♦			<u>`</u>
4	M5 - 1L	21" X 15"	2.19			4		W1 - 2R	48" X 48"	16.00 ♦			7
4	M5 - 1R	21" X 15"	2.19			 		W1 - 3L	48" X 48"	16.00 ♦ 16.00 ♦			5
4	M5 - 2L M5 - 2R	21 × 15 21" X 15"	2.19			~		W1 - 3R W1 - 4aL	48″ X 48″	16.00			<u>۲</u>
4	M6 - 1L	21" X 15"	2.19					W1 - 4aR	48" X 48"	16.00 ♦			2
4	M6 - 1R	21" X 15"	2.19			+		W1 - 51	48" X 48"	16.00			\$
4	M6 - 2L	21" X 15"	2.19										
4	M6 - 2R M6 - 3	21 × 15 21" X 15"	2.19			/ 		W1 - 5R	48″ X 48″	16.00 ♦			5
							1	W1 - 6L	48" X 24"	8.00	2	16	
			7 10					W1 - 6L	60" X 30"	12.50			2
	$\frac{\pi I - I}{R^1 - 1}$	JO ULIAGUN	13.25	7	97	STOP		W1 - 6R W1 - 6P	48" X 24"	8.00 12.50 ▲	2	16	$\rightarrow \frac{1}{2}$
	R1 - 2	48" X 48" X 48"	6.93		55			W1 - 7	48" X 24"	8.00			
	R1 - 2	60" X 60" X 60"	10.83 🔶			r ield Ž							

PLAN ROADWAY DESIGN DIVISION SSIPPI DEPARTMENT OF TRANSPORTA

2019 72 25 CE 6:31 3 M EQ. DGN

					
	S	SIGNS	REQU (CONT'D)	VIRED	
SIGN NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS
W1 - 7	60" X 30"	12.50 ♦			\leftrightarrow
W1 - 8L	18" X 24"	3.00			
W1 - 8L	36″ X 48″	12.00 ♦			
W1 - 8R	18" X 24"	3.00			
W1 - 8R	36" X 48"	12.00 ♦			
W1 - 9L	48″ X 48″	16.00 ♦			٤
W1 - 9R	48″ X 48″	16.00 ♦			\$
W3 - 1a	48″ X 48″	16.00 🖕			
W3 - 2a	48" X 48"	16.00 ♦			
W3 - 3	48″ X 48″	16.00 ♦			
W3 - 5	48″ X 48″	16.00 ♦	2	32	SPEED REDUC
W4 - 1L	48″ X 48″	16.00 ♦			ل
W4 - 1R	48" X 48"	16.00 ♦			1
W4 - 2L	48" X 48"	16.00 ♦			1
W4 - 2R	48" X 48"	16.00 ♦			
W5 - 1a	48" X 48"	16.00 ♦			PAVEMENT NARROWS
W6 - 1	48" X 48"	16.00 ♦			\$*7
W6 - 2	48″ X 48″	16.00 ♦			442
W6 - 3	48″ X 48″	16.00 ♦			↓ ↑
W8 - 1	48" X 48"	16.00 ♦			BUMP
W8 - 4	48" X 48"	16.00 ♦			SOF I SHOULDER
<u>W8 - 6</u>	48" X 48"	16.00 ♦			TRUCK CROSS
W8 - 7	48" X 48"	16.00			LOOSE GRAV
W8 - 9	48" X 48"	16.00	4	64	LOW SHOULL
W8 - 11	36" X 36"	9.00			UNEVEN LAN
W8 - 12	48" X 48"	16.00			NO CENTER ST
W1Ø - 1	36" DIA.	1.01			
W1Ø - 1	48" DIA.	12.56			
W13 - 1	24" X 24"	4.00	4	16	XX MPH
W14 - 3	36"X48"X48"	5.56			PASSING
	48″X64″X64″	9.89			ZONE
W16-2	24" X 18"	3.00			XXX FEET
W19 - 2	48" X 48"	16.00 ♦			BRIDGE MAY ICE IN COLD
W2Ø - 1	48" X 48"	16.00 ♦	12	192	ADVANCE ROAD WOR
W2Ø - 1	36″ X 36″	9.00			
W2Ø - 2	48" X 48"	16.00 ♦			ADVANCE DET
W2Ø - 3	48" X 48"	16.00 ♦			ADVANCE ROAD CL
W2Ø - 4	48" X 48"	16.00 ♦			ADVANCE ONE-LN. F
W2Ø - 4B	48" X 48"	16.00 ♦			ADVANCE ONE-LN. E
W20 - 5L	48" X 48"	16.00 ♦			ADVANCE LT. LN. C
W2Ø - 5R	48" X 48"	16.00 ♦			ADVANCE RT. LN. C
					•
W20 - 7a	48″ X 48″	16.00 ♦			
W21 - 1	36″ X 36″	9.00			WORKERS
W21 - 1a	36″X 36″	9.00			

							FMS CC	N: 103334/301000
							STATE	PROJECT NO.
			SIGN	S REQ	UIRED) [MISS.	BR-0023-02(058)
				(CONT'D)		-	-	
5		SIGN NO.	SIZE	UNII AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	RE	MARKS
(2) (1)		W21 - 2	36″ X 36″	9.00			F OIL	RESH (TAR)
2		W21 - 3	48" X 48"	16.00 ♦			AD F MA	VANCE {OAD CHINERY
(2)		W21 - 5	ло" v ло"	10.00			SHO	DULDER
		W21 - 5	40 X 40	16.00				NORK
		W21 - 0	90 X 30	5.00			SURVI	<u>- Y CREW</u>
		W24-1L W24-1R	48" X 48" 48" X 48"	16.00♦ 16.00♦	2 2	32 32	DOUBL	E REVERSE URVE
CTION		VP - IL	12″ X 36″	3.00				
		VP - IR	12″ X 36″	3.00				
	5	OM - 3L	12" X 36"	3.00	4	12		
	5	OM - 3R	12″ X 36″	3.00	4	12		
 		TOTAL	SIGN .	AREA	LESS 10 S	5 THAN SQ.FT.	12	28 SQ.FT.
		TOTAL	SIGN	AREA	1Ø OR	SQ.FT. MORE	♦ 5 <u>5</u>	59 SQ.FT.
R SING		1 STANDA 2 SPECIAL	RD . (USE WHER	E WARRAN	NTED)			
VEL DER NES TRIPE		 INTERS UNITED STATE COLORS ARROWS ROUTE BLACK 	TATE ROUTE STATES RC ROUTE MARI OF CARDIN SHALL BE MARKERS.	NO Marker Oute Mari Ker Ial Direc Appropr	TES Ker Tion Mar Iate to Backgro	RKERS A MATCH /	ND DIREC Accompan	TIONAL NyING
<u> </u>		6 INTERS	TATE USE C)NL Y				
D WEATHER		7 TOP OF BOTTOM	- SIGN - BL M OF SIGN	ACK LETI - BLACK	ERING OI _etterin	N ORANG G ON WH	E BACKGI HITE BACI	ROUND, Kground
OUR LOSED		the Back W10-1 Sha In All C	(GROUND OF All BE ORA Cases.	ALL WAF NGE.THE	RNING SIC W10-1 BA	GNS ("W" Ckgroun	SERIES)E ND SHALL	EXCEPT Be yellow
RD.								
BR.			111					
CLOSED			→ MISSI EST	SSIPPI D	DEPARTM	IENT O	PF TRAN ES	SPORTATION
			SR :	35				MAN M. REFE
				FFIC CO	ONTROL	SIGN	S	©, 12253 ₹
			PROJ. COUN	NO.: BF	R-0023-02 ALA	2(058)		WORKING NUMBER
			H FILENA DESIGN TE	AME: <u>EQ.D</u> am fa	GN CHECKED	ربا ال	 ATE	SHEET NUMBER
						יט	··· ··	<u> </u>

RIG	HT-OF-	WAY	MAR	KERS	
ROW MARKER NAME / STAMP MARKER AS:	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
103334-301000-100	SR35	1499+00.000	50.369	1261783.Ø13	76Ø966.315
103334-301000-101	SR35	1500+45.000	-80.000	1261948.423	760863.065
103334-301000-102	SR35	1500+45.000	-49.676	1261943.165	76Ø892.930
103334-301000-103	SR35	1507+50.000	-120.000	1262649.679	76Ø945.921
103334-301000-104	SR35	1508+00.000	170.000	1262648.635	761240.198
103334-301000-105	SR35	1508+50.000	-100.000	1262744.696	76Ø982.958
103334-301000-106	SR35	1511+50.000	-100.000	1263040.152	761034.980
103334-301000-107	SR35	1512+75.000	110.000	1263126.843	761263.474
103334-301000-108	SR35	1512+75.000	170.000	1263116.439	761322.565
103334-301000-109	SR35	1517+00.000	-50.188	1263573.182	761179.409
103334-301000-110	SR35	1517+00.000	49.812	1263555.841	761277.894
103334-301000-111	SR35	1576+25.000	-50.081	1269516.381	760796.884
103334-301000-112	SR35	1576+25.000	49.919	1269528.964	760896.08
103334-301000-113	SR35	1577+40.000	120.000	1269651.867	76Ø951.144
103334-301000-114	SR35	1578+50.000	-110.000	1269732.054	760709.132
103334-301000-115	SR35	1580+00.000	120.000	1269909.801	76Ø918.43
103334-301000-116	SR35	1581+50.000	-110.000	1270029.670	76Ø671.385
103334-301000-117	SR35	1583+10.000	-70.000	1270193.431	760690.93
103334-301000-118	SR35	1583+60.000	-80.000	1270241.776	76Ø674.72
103334-301000-119	SR35	1585+75.000	150.000	1270474.582	760877.04
103334-301000-120	SR35	1592+00.000	-80.000	1271065.676	76Ø57Ø.22
103334-301000-121	SR35	1593+50.000	-50.192	1271218.234	76Ø58Ø.92
103334-301000-122	SR35	1593+50.000	49.808	1271230.816	76Ø68Ø.132
					<u> </u>

EASE	MENT	COO	ORDIN	ATES
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
SR35	1515+30.000	-120.000	1263417.863	761081.176
SR35	1515+30.000	-65.584	12634Ø8.427	761134.767
SR35	1515+76.000	-120.000	1263463.166	761089.153
SR35	1515+76.000	-61.418	1263453.008	761146.847
SR35	1588+43.000	115.353	1270736.092	760808.948
SR35	1588+43.000	160.000	1270741.710	76Ø853.24Ø
SR35	1588+77.000	-129.000	1270739.077	76Ø562.259
SR35	1588+77.000	-80.000	1270745.243	760610.870
SR35	1588+99.000	108.113	1270790.737	760794.720
SR35	1588+99.000	160.000	1270797.265	76Ø846.194
SR35	1589+23.000	-129.000	1270784.712	76Ø556.471
SR35	1589+23.000	-80.000	1270790.877	76Ø6Ø5.Ø82

		STATE	PROJECT NO.
		MISS.	BR-0023-02(058)
IF MARKERS SHOWN IN TH VALUES IN TH THEN PLACE	FIELD LOCATION IS DIFFE IS TABLE , ENTER THE O IE LINE BELOW THE MAP A LINE THROUGH INCORP	RENT T ORREC RKER A RECT VA	HAN T ND LUES.
	- GPS CONTROL NOTES		
HORIZONTAL DATUM	: NAD 83 (2011) MS EAST 2301 (US	SURVEY F	EET)
AP26	1221999.875 768	644.450	
KOSC	1306629.606 767	406.070	
YRK1	1285180.880 756	232.990	
VERTICAL DATUM: VERTICAL MONUMEN	NAVD 88 (US SURVEY FEET)		
YRK1	399.96		
19V84	422.59		
ALL AZIMUTHS AND THE FOLLOWING VA LOCATED AT THE (DISTANCES ARE GRID VALUES, US LUES WERE CALCULATED AT A F CENTER QUARTER OF SECTION 15 NORTH BANGE 7 FAST	SURVEY OUND 2'' TOWNSHII	FEET PIPE, P 14
CONVERSION VA	LUES PROJECT A	VERAGE	_
GROUND TO GRID GRID TO GEODETIC	COMBINED) FACTOR 1.000008 AZIMUTH -0 23 58.9	3044 91808	
	MISSISSIPPI DEPARTMENT OR RIGHT-OF-WAY AND EASEMENT COORDINA	OF TRANS	SPORTATION SPORTATION
	PROJ. NO.: BR-0023-02(058)		WORKING NUMPER
	COUNTY: ATTALA		RCS-1
	FILENAME: RCS.DGN DESIGN TEAM FA CHECKED D	ATE	SHEET NUMBER









SHEET TOTAL	
G2Ø-1 (6ØX24)	2
G2Ø-2 (48X24)	2
R2-1 (24X3Ø)	4
R16-3 (36X48)	2
W3-5 (48X48)	2
W2Ø-1 (48X48)	12
TYPE III BARRICADE (D.F.)(6' WIDE)	4
WARNING LIGHT (TYPE "B")	2









	FMS CO	N: 103334/301000
	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
	STATE MISS.	PROJECT NO. BR-0023-02(058)
MISSISSIPPI DEPARTMENT (TRAFFIC CONTROL P PHASE 1 SR 35 (SITE 1) PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA FILENAME: TC-1-SITE1.DGN DESIGN TEAM_FA_CHECKEDC	DATE <u>10/24/18</u>	SPORTATION



	FMS CC	DN: 103334/301000
	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
1510-		
	1	NE "B 1+00
WORK ZONE		CH LI FA. 151
		S ^T
DRUMS @ 70'		2
MISSISSIPPI DEPARTMENT C TRAFFIC CONTROL P	DF TRAN LAN	ISPORTATION
I I I PHASE 2 I I I I I I I I I I I I I I I <t< th=""><th></th><th></th></t<>		
PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA		WORKING NUMBER
HILENAME: TC-2-SITE1.DGN)ATE 10/24/18	



	FMS CC	N: 103334/301000
	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
(Z)		
DRUMS @ 90'-		
MAX. O.C.		
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	-	1 <u>5</u>
1α		Ϋ́Υ.
		ST
		M N
WORK ZONE/		
MISSISSIPPI DEPARTMENT (OF TRAN	SPORTATION
HHHH TRAFFIC CONTROL P	LAN	
		MINIMUM Daras
PHASE 3		SOLED PROFESSION
		12253 a
		OF MISSISSI
PROJ. NO.: BR-0023-02(058)		WORKING NUMBER
COUNTY: ATTALA		TC-3
FILENAME: TC-3-SITE1.DGN		SHEET NUMBER
DESIGN TEAM FA CHECKED)ATE <u>10/24/18</u>	30



	FMS CO	N: 103334/301000
	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
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		MANNING REAL
		SOLD FROFESON
		12253
		PAR MISSIS
		WORKING NUMBER
		SHEFT NUMBER
DESIGN TEAM FA CHECKED	DATE 10/24/18	31





	FMS CO	N: 103334/301000
	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
		·
DRUMS @ 90' MAX. O.C. 1585 - + +		MATCH LINE "F" STA. 1588+00
	/	
WORK ZONE	/	
OGE DROP-OFF EXCEEDS 1 ¹ /2". REMOVED WHEN NOT IN USE.		
MISSISSIPPI DEPARTMENT (TRAFFIC CONTROL P	OF TRAN	SPORTATION
		MIMIN M. RASE
PHAGE 3 PHAGE 3 		SO ED PROFESSON
		OF MISSISSIN
COUNTY: ATTALA		WORKING NUMBER
FILENAME: TC-6-SITE2.DGN		SHEET NUMBER
DESIGN TEAM FA CHECKED	DATE <u>10/24/18</u>	33



	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
LEGEND		
* SINGLE WHITE DELINEATOR REQUIRED (4 REQUIRED E	PFR INST	αιι ατιών)
INDICATES DIRECTION OF TRAFFIC		
NOTES		
L NUTES:		
JARDRAIL TO BE INSTALLED PRIOR TO PLACEMENT OF AFFIC ON DETOUR ROAD.		
OR OTHER DETAILS OF GUARDRAIL INSTALLATION, SEE		
E APPROPRIATE STANDARD DRAWINGS.		
OLT BRIDGE END SECTION TO BRIDGE RAIL AS PER STA	NDARD PL	_AN
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RECTED BY THE ENGINEER.	T AS	
R DETAILS PERTINENT TO INSTALLATION OF THE TERMI	NAL	
CTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAW	INGS.	
MISSISSIPPI DEPARTMENT (OF TRAN	SPORTATION
	N AT	MINIM REAL
	DS	SOLED PROFESSION
^[2] ^[2] PROJ. NO.: BR-0023-02(058)		WORKING NUMBER
COUNTY: ATTALA		SD-TGR-1
FILENAME: SD-TGR-1.DGN	ΑΤΕ	34







	PAVEMENT MARKI	NG
SYMBOL	DESCRIPTION	TYPE
	TRAFFIC STRIPE (SKIP WHITE)	
2	TRAFFIC STRIPE (CONT. WHITE)	
3	EDGE STRIPE (CONT. WHITE)	
(4)	TRAFFIC STRIPE (SKIP YELLOW)	
(5)	TRAFFIC STRIPE (CONT. YELLOW)	
(6)	DET. STRIPE (6" EQ. LENGTH)(WHITE)	
(7)	DET.STRIPE (6" EQ.LENGTH)(YELLOW)	
8	DET. STRIPE (12" EQ. LENGTH)(WHITE)	
(9)	DET. STRIPE (12" EQ. LENGTH) (YELLOW)	
(10)	DET. STRIPE (18" EQ. LENGTH)(WHITE)	
(11)	DET. STRIPE (18" EQ. LENGTH) (YELLOW)	
(12)	LEGEND (24" EQ. LENGTH)(WHITE)	
(13)	LEGEND (SYMBOL)(WHITE)	
(14)	TWO-WAY YELLOW REFLEC. RAISED MARKER	
(15)	TWO-WAY CLEAR REFLEC. RAISED MARKERS	MARKERS
(16)	RED-CLEAR REFLECTIVE RAISED MARKERS	
(17)	EDGE STRIPE (CONT. WHITE)	
18	TRAFFIC STRIPE (SKIP YELLOW)	
(19)	TRAFFIC STRIPE (CONT. YELLOW)	
* INCI	LIDES 600'EOR BRIDGES	



	PAVEMENT MARKI	NG
SYMBOL	DESCRIPTION	TYPE
	TRAFFIC STRIPE (SKIP WHITE)	
2	TRAFFIC STRIPE (CONT. WHITE)]
3	EDGE STRIPE (CONT. WHITE)	
(4)	TRAFFIC STRIPE (SKIP YELLOW)	
5	TRAFFIC STRIPE (CONT. YELLOW)	
6	DET. STRIPE (6" EQ. LENGTH)(WHITE)	
(7)	DET. STRIPE (6" EQ. LENGTH)(YELLOW)	
8	DET. STRIPE (12" EQ. LENGTH)(WHITE)	
(9)	DET. STRIPE (12" EQ. LENGTH) (YELLOW)	
(10)	DET. STRIPE (18" EQ. LENGTH)(WHITE)	
(11)	DET. STRIPE (18" EQ. LENGTH) (YELLOW)	
(12)	LEGEND (24" EQ. LENGTH)(WHITE)	
(13)	LEGEND (SYMBOL)(WHITE)	
(14)	TWO-WAY YELLOW REFLEC. RAISED MARKER	
(15)	TWO-WAY CLEAR REFLEC. RAISED MARKERS	MARKERS
(16)	RED-CLEAR REFLECTIVE RAISED MARKERS	
(17)	EDGE STRIPE (CONT. WHITE)	
(18)	TRAFFIC STRIPE (SKIP YELLOW)	
(19)	TRAFFIC STRIPE (CONT. YELLOW)	
	LIDES 550' EOD RDIDCES	




PLAN ROADWAY DESIGN DIVISION SSIPPI DEPARTMENT OF TRANSPORTATIC

	FMS CC	N: 103334/301000
	STATE	PROJECT NO.
REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA	MISS.	BR-0023-02(058)
NO CLEARING ALLOWED		
CLEARING AND GRUBBING ALLOWED		
	<u> </u>	
SCALE: 1"=20'	HOR.	
RIPARIAN BUFFER	JF IRAN	SPORIATION
BRIDGE NO 150 5		MULIN M. REE
SR 35 ACROSS BOKSHE	NYA	
		07 12253 22 77 0F MIGS 155
PROJ. NO.: BR-0023-02(058)		WORKING NUMBER
FILENAME COUNTY: ATTALA		SHEET NUMBER
DESIGN TEAM FA CHECKED	DATE	38

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DESIGN TEAM: FISHER ARNOLD

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SHEET ID: SR 35 - DETOUR BR. NO. 1

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PLAN ROADWAY DESIGN DIVISION ISSIPPI DEPARTMENT OF TRANSPORTA

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	STATE PROJECT NO. MISS. PRO23-02(058) COUNTY: ATTALA				FMS C	ON: 103334/301000
	MISS. BR-0023-02(058) MISS. BR-0023-02(058) COUNTY: ATTALA				STATE	PROJECT NO.
	A 22 43 62 State Television Control of Transportation RIPARIAN BUFFER BRIDGE NO. 152.0 SR 35 ACROSS LITTLE CONFHOMA CREEK PROJ. NO.: BR-002302(056) COUNTY: ATTALA			\setminus \setminus 1	MISS.	BR-0023-02(058)
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Image: Market interview Image: Market interview	RIPARIAN BUFFER BRIDGE NO. 152.0 SR 35 ACROSS LITTLE CONEHOMA CREEK PROJ. NO.: BR-0023-02(058) COUNTY: ATTALA			IPPI DEPARTMENT	OF TRAD	NSPORTATION
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SHEET ID: SR 35 - DETOUR BR. NO. 2

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		JSIUN CUNIRUL ITENIS	SPRING	& SUMMER	FALL	& WINTER	
	PAY ITEM NO.	ITEMS	RATES	DATES	RATES	DATES	
+	225 4 0 01			MARCH 1 TO SEPTEMBER 1		SEPTEMBER 1 TO MARCH 1	
╞	225-A001 225-B001		TONS ACRE	MARCH 1 TO SEPTEMBER 1			LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND IN
┢	225-1001	COMBINATION FERTILIZER (13-13-13)		MARCH 1 TO SEPTEMBER 1			EEDTILIZED CUALL RE MECHANICALLY SPREAD UNITONNEY AND I
ก่	213-0001					SEFIEMDER I TO MARCH I	CUDEDDUCCOUNTE (EOD DID ITEM DUDDOCEC)
ง ภ	215 0001						SUPERPHUSPHALE (FUR BID LIEM PURPUSES).
シ う	225-1001	SEEDING (BERMUDAGRASS)	OU LDS./ACRE	MARCH 1 TO SEPTEMBER 1			SEED REQUIRED ON DISTURDED AREAS, UNHOLLED SEED MAT DE
ຍ _	225 4001	SEEDING (TALL FESCUE)			100 LBS./ACRE		SEED REQUIRED ON DISTURDED AREAS.
	225-4001	SEEDING (CRIMSON CLOVER)			20 LDS./ ACRE		SEED REQUIRED ON DISTURBED AREAS.
-	225-CØØ1	MULCH - VEGETATIVE MULCH	2 TONS ACRE (EST.)	MARCH 1 TO SEPTEMBER 1	2 TONS/ACRE (EST.	SEPTEMBER 1 TO MARCH 1	THE ENGINEER WILL DESIGNATE THE RATES OF APPLICATION (SEE
╞	216-AØØ1	SOLID SODDING	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ. YD.	SEPTEMBER 1 TO MARCH 1	SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE CONTRACT OR
	219-AØØ1	WATERING	20 GALS./S.Y. (EST.)	MARCH 1 TO SEPTEMBER 1	20 GALS. S.Y. (EST.)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED IN THE PLANTING AND ESTABLISHING
4	220-A001	INSECT PEST CONTROL	PER ACRE		PER ACRE		SEE SECTION 220.
_							
-							
		TEMPORARY EROSION CONTROL ITEMS					
	226-AØØ1	LIGHT GROUND PREPARATION	PER SQ.YD.		PER SQ.YD.		APPROXIMATELY HALF SQ.YD. STANDARD GROUND PREPARATION
-	226-A001	COMBINATION FERTILIZER (13-13-13)	250 LBS./ACRE				QUANTITY BASED ON LIGHT GROUND PREPARATION
	226-AØØ1	SEEDING (BROWN TOP MILLET)	20 LBS./ACRE	APRIL 1 TO AUGUST 31			QUANTITY BASED ON LIGHT GROUND PREPARATION
	226-AØØ1	SEEDING (RYE GRASS)			25 LBS./ACRE	SEPTEMBER 1 TO MARCH 31	QUANTITY BASED ON LIGHT GROUND PREPARATION
	226-AØØ1	SEEDING (OATS)			90 LBS./ACRE	SEPTEMBER 1 TO DECEMBER 15	QUANTITY BASED ON LIGHT GROUND PREPARATION
	226-AØØ1	VEGETATIVE MATERIAL FOR MULCH	2 TON /ACRE (EST.)		2 TON /ACRE (EST.))	QUANTITY BASED ON LIGHT GROUND PREPARATION

1 ALL AREAS THAT HAVE BEEN VEGETATED, UNDER THIS CONTRACT FOR AT LEAST (60) SIXTY DAYS, SHALL RECEIVE ADDITIONAL APPLICATION(S) OF FERTILIZER(S) OF THE TYPE(S) AND RATE(S) OF APPLICATIONS AS DETERMINED BY SOIL TESTS OR AS DIRECTED DURING THE GROWING SEASONS THE CONTRACT IS IN FORCE. GROUND PREPARATION WILL NOT BE REQUIRED FOR THE ADDITIONAL APPLICATIONS. PAYMENT FOR ALL FERTILIZERS ACCEPTABLY APPLIED AS AN ADDITIONAL APPLICATION(S) WILL BE MADE IN ACCORDANCE WITH SUPERPHOSPHATE BID ITEM 213-C001.

② PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 100% OF THE ACREAGE WILL BE SEEDED.

③ PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE WILL BE SEEDED.

(4) QUANTITY ESTIMATED ON THE BASIS 50% OF THE ACREAGE VEGETATED MAY REQUIRE TREATMENT.

).

TEMPORARY EROSION CONTROL ITEMS	REQUIRED FOR DETOURS
ITEM	RATE
STANDARD GROUND PREPARATION	
COMBINATION FERTILIZER (13-13-13)	500 LBS/ACRE
SEEDING (BERMUDAGRASS)	10 LBS/ACRE
SEEDING (TALL FESCUE)	20 LBS/ACRE
VEGETATIVE MATERIAL FOR MULCH	2 TONS/ACRE

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REQUIREMENTS		
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ICORPORATED INTO THE SOIL PRIOR TO PLANTING.		
REQUIRED DURING THE DORMANT SEASON AS DIRECTED.		
SUBSECTION 215.03.3).		
BY THE ENGINEER.		
ULID SUD.		
VEGETATION SCHEDU	DF TRAN I le	SPORTATION

		SION BY	MISSISSIPPI DEPARTMENT OF TRAN VEGETATION SCHEDULE DISTRICT 1 OR 2 RURAL-PAVE/GUARDRAIL/BRIDGE	SPORTATION
		REVIS	EXCLUDING MS DELTA	OF MISSIS
			COUNTY: ATTALA	WORKING NUMBER
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							MATCH LINE "A" STA. 1511+00
		TE REVISION BY	MISSISSIPPI D PERMANEN SR 35 (SITE SR 35 (SITE PROJ. NO.: BF COUNTY: ATT FILENAME: PSP-1	DEPART NT SIC 5 1) R-0023-0 ALA I-SITE1.DO	MENT (GNING	OF TRAN	SHEET NUMBER









(SHOWING CONVENTIONAL REINFORCING. SEE CONSTRUCTION NOTES FOR DETAILS OF OPTIONAL WELDED WIRE FABRIC.)



SKEW	BA	RS DX ~	#4	BARS RX ~ #4
(DEG)	″A″	"B"	"C"	"F"
Ø	9″	9 ³ ⁄4″	5″	6″
5	9″	9 ³ ⁄4″	5″	6″
1Ø	9″	9 ³ ⁄4″	5″	6″
15	9 ¹ /4″	1Ø″	5″	61/4″
2Ø	9 ¹ /2″	1Ø″	5″	61/4″
25	10″	10 /2″	5″	6 ¹ /2″
3Ø	10 ¹ /4″	10 /2″	5″	7 "
35	11″	11 /4″	4 3⁄4″	71/4″
40	113⁄4″	11 ³ ⁄4″	43⁄4″	7 3⁄4″
45	1' -Ø ^I /4"	1′-ؾ″	4 ¹ /2″	81/2″
5Ø	1' -2"	1'-1 ³ /4″	4 ¹ /2″	91/4″
55	1'-3 ³ /4"	1'-2 /2"	4 ¹ /2″	$10^{1/2}$











4-LANE WITH ONE-WAY TRAFFIC

PROJECT NO. STATE MISS. 6" CONTINUOUS YELLOW (**) —ę joint 6" CONTINUOUS WHITE EDGE STRIPE (**) - DETAIL "A" DIRECTION OF TRAFFIC GENERAL NOTES: * 1. 2" UNLESS SHOWN ELSEWHERE ON THE PLANS. FOR STRIPING ON RUMBLE STRIP SECTIONS REFER TO WK. SHEETS RS-1, RS-2, AND RS-3. * * 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR PLASTIC AS INDICATED IN PAY ITEMS). * * * 3. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS: URBAN AREA RURAL AREA (ft-in) (ft-in) TANGENT SECTIONS 40'-0" 80'-0" HORIZONTAL CURVES 40'-0" 40'-0" INTERCHANGE LIMITS 40'-0" + 40'-0" + NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER. 4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS." MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN PAVEMENT MARKING **DETAILS FOR** REVISION 2-LANE AND 4-LANE DIVIDED ROADWAYS working number PM-1 SHEET NUMBER AUGUST Ø1,2Ø17 S ISSUE DATE:__ 6Ø51







PLAN NOT TO SCALE

	STATE	PROJECT	NO.
	MISS.		
GENERAL NOTES			
1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT			
2. GROUND-IN RUMBLE STRIPES SHALL BE OMITTED ACROSS PUBLIC INTERSECTING ROADWAYS OR OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER			
3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS			
4. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:			
A. MAINLINE			
B. INTERSECTING ROADWAY IF OVERLAID OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.			
C. ANY ROADWAY WITH EXISTING RUMBLE STRIPES Prior to construction.			
5. DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE	0		
11' or			
11' or			
ARIA HOUL			
SEE DETAIL "A"			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	DIVISION	portati	UN
STANDARD F	PLAN		
RUMBLE STRIPE	S		
	YS S	—	
	, LDERS)		OF TRANSPORTATION
		working n RS-	umber 1
ISSUE DATE: AUGUST Ø1,20	17	SHEET NL	імвеr 4

- 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.
- ONTO OR ACROSS HARD SURFACES, OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING 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.







TEMPORARY BRUSH BARRIER

NOTES: 1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJEC

- 2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TO TO PROPERLY SECURE THE BARRIER AS DETAIL 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 TREE LAP SO AS NOT TO FORM A SOLID DAM.
- 4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC. THE COST OF FABRIC TO BE INCLUDED IN OTHER ITEMS BID.
- 5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPARATE PAYMENT.

NOTE: ANCHOR AND INSTALL SILT FENCE PER DE



APPLICATION

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	STATE	PROJECT NO.
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- VARIABLE		
(5' TO 10')		
SIDE ELEVATION		
E WITH SOME		
R AS DETAILED		
ND TREE LAPS		
BE INCLUDED		
* SILT FENCE SHOULD BE LOCATED		
AWAY FROM THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO		
ALLOW A BROAD, FLAT AREA FOR SEDIMENT ACCUMULATION AND		
MAINTENANCE ACTIVITIES. THE ENDS $\langle O_{HV}$ SILT FENCE — OF THE SILT FENCE SHOULD BE TURNED		
UP GRADIENT TO MAXIMIZE STORAGE.		
A FLOW		
SILT FENCE SECTION AT		
TOE OF FILL		
MISSISSIPPI DEPARTMENT O ROADWAY DESIGN	F TRANS	SPORTATION
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		MISSISSEPTI DEPARTMENT OF TRANSPORTATION WORKING NUMBER
		ECD-2
UNDER AUGUST Ø1, 201	7	- 6102









GENERAL NOTES:

- 1 THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE USED. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
- 2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE, ECONOMY AND SAFETY.
- 3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES ½ THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN $\frac{1}{2}$ THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
- 4. HAY BALES SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
- 5. SILT FENCE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
- 6. SANDBAG DITCH CHECKS SHOULD BE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCK BOTTOMS.

- 7. WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
- 8. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE RIPRAP CAN NOT BE USED. AS CONSTRUCTION PROGRESSES.
- 9. ROCK DITCH CHECKS WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SI SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USE DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHOULD BE LIMI 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIE
- 10. DITCH CHECKS, IN NO CASE, SHALL BE PLACED IN LIVE STREAMS.
- 11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER TO ACCOMMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.

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				S-3.0% OR	GREATER
			5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
EXAMPLE: HEIGH	T OF STRUCTL	JRE 1.5'			
GRADE 1% EXTEND VERTIC	ALLY FROM 1.	5' HEIGHT TO IN	TERSECT S = 1.0% GRA	DE	
EXTEND 90 TO	DITCH CH	ECK SPACIN	IG		
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CE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED T RE INADEQUATE. SILT FENCE DITCH CHECKS SHOULD BE USED TO INTE	HAT HAY BA RCEPT LOW	ALE Volume	
LOW TO MODERATE GRADIENT DITCHES.			
S SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MO	DERATE GRA	ADIENT	
RECOMMENDED CHECK SPACING IS 100 FEET UNLESS SHOWN OTHERWISE	ON THE PL	ANS	
G WOOD STAKES SHALL BE SIZED. SPACED. AND BE OF A MATERIAL THA	T EFFECTIV	ELY	
THE CHECK. A MINIMUM OF TWO STAKES PER BALE IS REQUIRED. ALL S SHALL BE REMOVED WHEN NO LONGER NEEDED.	NON-DEGRA	DABLE	
ALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3 INCHES.			
ALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACEN	NT BALES.	THE	
COMPACTED ALONG THE BASE OF THE UPSTREAM EACE TO PREVENT PIP	ING.		
ADJACENT ROWS OF BALES ARE REQUIRED AS SHOWN.			
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BALE DITCH CHE	CKS)	WORKING NU	DF TRANSPORTATION
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- 1. WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
- 2. THE PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK SHALL BE 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.
- 3. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
- 4. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
- 5. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
- 6. IN THE EVENT WATTLES CANNOT BE SECURED IN PLACE USING WOOD STAKES, SAND BAGS MAY BE USED IN LIEU OF WOOD STAKES IN ORDER TO SECURE THE WATTLES IN PLACE. IF SANDS BAGS ARE USED IN THIS APPLICATION THEY WILL NOT BE A SEPARATE PAY ITEM.





POINT "A" SHALL BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS



PLAN VIEW



SILT DIKE INSTALLATION FOR ROADWAY DITCHES





	STATE	PROJECT	NO.
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F DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE			
AR ZONE WHERE RIPRAP CANNOT BE USED.			
I DIKES MAY ALSO BE USED:			
IN AREAS WHERE CONSTRUCTION TRAFFIC TRAVELS (AS SHOWN ON WK.NO.ECD-16), PROVIDED THE SILT DIKE REBOUNDS TO ITS ORIGINAL SHAPE. SILT DIKES WHICH			
DO NOT REBOUND TO THEIR ORIGINAL SHAPE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE DEPARTMENT.			
AT THE ENDS OF AND ALONG THE EDGES OF CONSTRUCTION ROADS THAT CROSS TH	ΗE		
WATERS OF THE U.S. (AS SHOWN ON WK. NO. ECD-17).			
PLACEMENT INTERVAL BETWEEN SILT DIKE DITCH CHECK SHALL BE 100' ESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED			
THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.			
TALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.			
TRIANGULAR SILT DIKE SHAPE IS ONLY SHOWN FOR DEPICTION PURPOSES. OTHER PED SILT DIKES MAY BE USED.			
N THE SILT DIKE, USED AS A DITCH CHECK, IS MANUFACTURED WITH AN APRON ON			
SIDE ONLY, THE SILT DIKE SHALL BE INSTALLED AS SHOWN IN SECTION A-A. APRON SHALL BE INSTALLED ON THE UPSTREAM SIDE AND TYPE V NON-WOVEN			
TEXTILE FABRIC INSTALLED ON THE DOWNSTREAM SIDE.			
COST OF THE FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.			
7			
DOWNSTREAM APRON	דא פוו <i>ח</i> זיז א איז ר	יידייי א רוויא א דיייי	
ROADWAY DESIGN	F TRANS DIVISION	PORTATI	ION
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DITCH CHECK	_		OF TRANSPORTATION
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- 1. ROCK DITCH CHECKS SHOULD ONLY BE USED FOR REDUCING THE VELOCITY OF
- 2. MINIMUM SPACING FOR ROCK DITCH CHECKS IS 100 FEET UNLESS OTHERWISE EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE
- 3. ROCK DITCH CHECKS SHOULD ONLY BE USED UP-GRADIENT OF AND ALONG WITH SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S).
- 4. THE COST OF FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.

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ROCK DITCH CHECK	Image: Image of the standard st	"LAN		
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	CONSTANT	
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сн ГСН		
SECTION A-A		
FOR SEDIMENT FILTRATION		
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TOP OF THE REQUIRED SEDIMENT CONTROL STONE BERM SHOULD BE		
ION OF THE INLET WORKING POINT AND SHALL BE A MINIMUM ATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.		
L STONE INLET PROTECTION SHALL BE UTILIZED DURING STAGE 1 AND		
RUCTION. SEE WK.NO.ECD-11.		
E REPLACED WITH WIRE MESH WITH OPENINGS LESS THAN 1" X 1". COST DED IN OTHER ITEMS BID.	OF	
LENE AND/OR FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.		
SHOULDER TRAVELWAY		
IN SAG		
$\begin{array}{ c c c } \hline \\ \hline $	OF TRANS DIVISION	SPORTATION
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GRADES AND SA	GS	
		WORKING NUMBER ECD-12
	17	SHEET NUMBER
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PLAN

NOTES:

- 1. FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND THE INLET AS DIRECTED BY THE ENGINEER.
- 2. FILL POCKETS AROUND BASE OF FILTER COVER WITH SEDIMENT CONTROL STONE. THE COST OF SEDIMENT CONTROL STONE USED IN THIS APPLICATION SHALL BE INCLUDED IN OTHER ITEMS BID.
- 3. USE ONLY DURING STAGE 3 OR STAGE 4 INLET CONSTRUCTION. SEE WK. NO. ECD-11.
- 4. FOR MEDIAN INLET PROTECTION, THE ELEVATION OF THE COARSE SCREEN TOP SHALL BE A MINIMUM OF 6" BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.



SECTION "A-A"

FLOW

	STATE	PROJECT NO.
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SCREEN TOD		
SUREEN IUP		
FABRIC FILTER COVER OF NON-WOVEN FABRIC		
SA SEDIMENT CONTROL STONE USED TO FILL POCKETS		
AND ANCHOR BASE OF FABRIC FILTER COVER.		
PROTECTION DEVICE FRAME		
INLET		
		SDADTE & TELANT
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CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM



TYPICAL (SANDBAG) PROTECTION FOR INLET ON GRADE



TYPICAL (SANDBAG) PROTECTION FOR INLET IN SAG













CURB INLET PROTECTION NOTES:

- 1. THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND
- 2. BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRA
- 3. SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER. GUTTER CHECKS AND IN FOR SECONDARY CONTROL.
- 4. REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
- 5. IF DENUDED AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLE PERIMETER TO CONTOL SEDIMENT.

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NOTE:	βάρς κα τματ			
NO GAPS AR 3 BAGS HIGH	E EVIDENT. 1 AND STAGGER	ED.		
(80 BAGS M)	[N.)			
PLAN VIEW				
FL	OW			
DROP INLET				
SECTION A-A				
ANDBAG BARRIER				
ASE AND PAVEMENT CONSTRUCTION.				
SE OF TRAVELWAY.				
KS AND INLET PROTECTION ARE				
OM HARD SURFACES AND				
INSTALLED AROUND ITS				
	MISSISSIPPI	DEPARTMENT	OF TRANS	SPORTATION
		ROADWAY DESIG STANDARD	n division Plan	
SION	INL	ET PROTECTI	ION	
REVIS	DETAI	LS OF SAND	BAGS	
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BILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT POINTS O S FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE TE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED OF THE PROJECT SHALL BE DIRECTED THRU THE STABILIZED ENTRANCE TRS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED)F E		
DNTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFF ING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED F ENGINEER PRIOR TO ITS USE.	SITE		
ATERIALS SRULER RROBER OF TRACKER ONTO RUPLIC ROARS (INCLURIN			
TABILIZED CONSTUCTION ENTRANCE AGGREGATE AND CONSTRUCTION MUD) D BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE EN	NGINEER.		
II STABILIZER AGGREGATE OR LARGER SHALL BE USED.			
TABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDIT WILL ALLOW IT TO PERFORM ITS FUNCTION TO PREVENT OFFSITE TRACK TABILIZED CONSTRUCTION ENTRANCE SHOULD BE RINSED WHEN NECESSAR ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZA E VEHICULAR ROUTE LEADING TO THE STABILIZED ENTRANCE MAY BE RED TO LIMIT THE MUD TRACKED.	TION KING. Y TO TION		
DMINAL SIZE OF A STANDARD STABILIZED CONSTRUCTION ENTRANCE IS 50' UNLESS OTHERWISE SHOWN IN THE EROSION CONTROL PLAN.			
OF ALL ITEMS ON THIS SHEET SHALL BE INCLUDED IN OTHER ITEMS BI	[D.		
ROADWAY DESIGN	DF IRANS DIVISION PLAN	POKIAII	JIN
NOISINE STABILIZED CONSTRUCTION ENT	RANCE		
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PLAN VIEW

GENERAL NOTES:

- 1. TEMPORARY CULVERT STREA CROSS A WATERCOURSE WH
- 2. TEMPORARY CULVERT STREA TO SAFELY PASS EXPECTED LENGTH OF TIME THAT THE
- 3. TEMPORARY STREAM CROSS AND MAINTAIN NORMAL DOW FILL SHOULD BE MINIMIZED
- 4. A CONTINUOUS PROGRAM OF PRIOR TO AND CONCURRENT WHEN A CROSSING IS NO L PRE-DISTURBANCE CONDITIC PROTECTION OF WATER QUA
- 5. LOCATIONS OR TYPES OF AS REQUIRED ITEMS.
- 6. THE CONTRACTOR MAY PROF BRIDGE OR MATS.
- 7. THE DETAILS PROVIDED DEF
- 8. ALL COSTS FOR MATERIAL INCLUDED IN OTHER ITEMS

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AM CROSSINGS PROVIDE A MEANS FOR VEHICLES AND EQUIPMENT TO S HILE MINIMIZING DAMAGE TO THE CHANNEL AND/OR BANKS.	SAFELY	
AM CROSSINGS WHEN PERMITTED BY THE ENGINEER SHALL BE CONSTRU		
D MEAN WATER FLOW OF THE STREAM FOR THE TIME OF YEAR AND EY ARE INSTALLED.		
SINGS SHALL BE DESIGNED TO ENSURE STRUCTURAL INTEGRITY AND ST WNSTREAM FLOWS. THE USE OF INSTREAM CROSSINGS AND INSTREAM A D TO THE EXTENT PRACTICABLE.	ABILITY, Aggregate	
F FFFETTVF FRASIAN AND SEDIMENT CANTRAL MEASURES SHALL DE		D
T WITH ANY TYPE OF CONSTRUCTION ACTIVITY WITHIN THE BANKS OF	A STREAM.	U
ONGER NEEDED, THE STREAMBED AND STREAM BANKS SHALL BE RESTOF ONS, OR SUCH A CONDITION THAT PROVIDES SUBSTANTIALLY EQUIVALEN	RED TO NT	
ALITY.		
TEMPORARY CULVERT STREAM CROSSINGS WILL NOT BE SHOWN ON THE	PLANS	
POSE OTHER OPTIONS FOR TEMPORARY CROSSINGS SUCH AS STEEL/TIN	IBER	
PICT A TYPICAL TEMPORARY CULVERT STREAM CROSSING.		
S.LABOR. FQUIPEMENT. CONSTRUCTION. REMOVAL. AND MAINTENANCE SHAL	l BE	
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	OF TRANS	SPORTATION
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NUJELI NU.

1. TEMPORARY DIVERSION CHANNELS MAY BE USED TO DIVERT NORMAL STREAM PATH FLOW FROM AN ERODIBLE AREA UNTIL SUCH AREAS CAN BE STABILIZED.

2. TYPE III FILTER FABRIC OR PRE-FAB DITCH LINER MAY BE USED FOR CHANNEL LINING.

3. RIPRAP WITH FILTER FABRIC MAY BE USED FOR CHANNEL FLOW VELOCITIES OF 3 FPS TO 9 FPS. THE RIPRAP SHALL BE SIZE 300 LB.

4. LOCATIONS OR TYPES OF TEMPORARY DIVERSIONS WILL NOT BE SHOWN ON THE PLANS.

5. DIVERSION CHANNEL SHALL BE STABILIZED AND INSPECTED BY THE ENGINEER BEFORE FLOW IS DIVERTED.

6. DURING CONSTRUCTION OF DIVERSION CHANNEL, DAMAGE TO THE EXISTING STREAM, CANOPY REMOVAL, AND DEPTH OF THE CHANNEL CONSTRUCTION SHOULD BE MINIMIZED.

7. CONSTRUCTION OF THE CHANNEL RELOCATIONS AND CULVERTS SHALL PROCEED AS FOLLOWS:

7.1 CONSTRUCT A MEANDERING TEMPORARY CHANNEL CHANGE ADJACENT TO THE PROPOSED CULVERT TO DIVERT WATER TEMPORARILY DURING THE CULVERT CONSTRUCTION. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

7.2 RELOCATE CHANNEL AND CONSTRUCT CULVERT SIMULTANEOUSLY.

7.3 SOD AND/OR RIPRAP RECONSTRUCTED BANKS AT TRANSITIONS. THE UPPER CHANNEL PLUG IS TO REMAIN IN PLACE UNTIL SUBNOTE 7.1 THROUGH 7.4 UNDER THIS HEADING ARE COMPLETED TO INSURE THAT ALL CONSTRUCTION IS IN THE DRY.

7.4 IF AN EARTH PLUG IS NECESSARY AT THE DOWNSTREAM END OF THE CHANNEL IT SHOULD BE REMOVED FIRST, THEN REMOVE THE UPPER PLUG TO RELEASE WATER INTO THE RECONSTRUCTED CHANNEL.

7.5 PLUGS SHOULD REMAIN IN PLACE UNTIL PERMANENT STABILIZATION OF THE NEW WATER COURSE IS COMPLETED. REMOVAL OF PLUGS SHOULD ONLY BE PERFORMED FOLLOWING ACCEPTANCE OF ALL STABILIZATION WORK BY THE ENGINEER.

8. THE DETAILS PROVIDED DEPICT TYPICAL TEMPORARY DIVERSION CHANNELS.

9. THE CONTRACTOR MAY PROPOSE THE USE OF OTHER DIVERSION OPTIONS SUCH AS PIPING, PUMPING OR STAGED CONSTRUCTION.

10. THE EFFECTIVE AREA OF FLOW IN THE TEMPORARY CHANNEL OR CULVERT SHALL BE A MINIMUM OF ONE-HALF THAT OF THE EXISTING STRUCTURE.

11. INSTALLATION OF FILTER FABRIC SHALL BEGIN AT THE DOWNSTREAM END AND PROGRESS UPSTREAM. EDGES OF ADJACENT FILTER FABRIC SHALL OVERLAP AT LEAST 1 FOOT. THE ENDS OF THE FILTER FABRIC SHALL BE SECURELY HELD IN PLACE WITH RIPRAP.

12. THE COST OF THE TEMPORARY DEWATERING STRUCTURE OR SEDIMIENT FILTER BAG SHALL BE INCLUDED IN OTHER ITEMS BID.

	B	MISSISSIPPI DEPARTMENT OF TRANSI ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
	REVISION	TEMPORARY STREAM DIVERSION	
			ECD-18
	DATF	ISSUE DATE:AUGUST Ø1, 2017	sheet number 6118



MAXIMUM SPAN FOR PIPE SUPPORTS, FEET									
DIAMETER	STEEL THICKNESS (IN.)								
OF PIPE	0.064	0.079	Ø.1Ø9	Ø.138	Ø.168				
(IN.)		2″ × 1/2	2″ CORRUGATION	١					
24	13	15	2Ø						
36	12	15	2Ø	25					
48	11	14	19	25	3Ø				
60		14	19	24	29				
72			18	24	29				
5" X 1" OR 3" X 1" CORRUGATION									
36	9	11							
48	9	11	15						
60	8	10	14	18					
72	8	1Ø	14	18	22				

FOR PIPE SIZES NOT SHOWN REFER TO NEXT LARGER SIZE

GENERAL NOTES:

- CONSTRUCTION IS EXPECTED TO BE BRIEF.

- OF THE RISE OF THE BOX CULVERT.
- OF THE BERM.
- ROLL DURING CONSTRUCTION OF THE BOX CULVERT.
- 8. ALL PIPE JOINTS SHALL BE PROPERLY BANDED OR OTHERWISE PROVIDED WITH A REASONABLE SEAL AGAINST LEAKAGE.
- 10. CONSTRUCTION SHALL PROCEED AS FOLLOWS:
 - 10A. INSTALL TEMPORARY DRAINAGE PIPE ON ITS SUPPORTS INSIDE THE CULVERT TO BE EXTENDED.

 - 10/2. REMOVE THE TEMPORARY DRAINAGE PIPE, SUPPORTS AND ANY REMAINING SANDBAGS.
- 12. RIPRAP MAY BE SUBSTITUTED FOR SANDBAGS.

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1. SUSPENDED PIPE DIVERSIONS MAY BE USED TO ALLOW BOX CULVERT EXTENSIONS TO BE CONSTRUCTED, WHILE SEPARATED FROM FLOWING WATER, THUS REDUCING SEDIMENTATION. OPTIONAL FLEXIBLE PIPE DIVERSION MAY BE UTILIZED ON STREAMS WITH INTERMITTENT FLOW WHERE THE DURATION OF

2. EXCAVATION SLOPES FOR BOX CULVERT EXTENSIONS SHALL BE PROTECTED WITH TYPE III FILTER FABRIC PRIOR TO CONSTRUCTION OF THE BOX.

3. SUSPENDED PIPE DIVERSIONS MAY BE USED WHERE ADVERSE IMPACTS WILL NOT BE CAUSED BY WATER PONDED UPSTREAM OF THE PIPE.

4. THE SANDBAG PLUG AT THE UPSTREAM END OF THE SUSPENDED PIPE DIVERSION SHOULD BE CONSTRUCTED TO A HEIGHT EQUAL TO THREE QUARTERS

5. POLYETHYLENE SHEETING (6 MIL. MINIMUM) SHALL BE PLACED INSIDE THE SANDBAG PLUG IN THE BOX CULVERT AND IN THE SANDBAG BERM WITHIN THE CHANNEL IN ORDER TO PROVIDE THE BEST POSSIBLE SEAL. SANDBAGS ON THE DOWNSTREAM SIDE OF THE SHEETING SHOULD BE PLACED FIRST, AND THEN SHEETING PLACED ON THESE BAGS.AS MUCH AS POSSIBLE, THE SHEETING SHOULD BE FITTED AROUND THE PIPE. SANDBAGS SHOULD THEN BE PLACED ON THE SHEETING. WHERE MULTIPLE SHEETS ARE USED. THEY SHOULD OVERLAP A MINIMUM OF 18 INCHES.

6. THE PROPOSED CULVERT CONSTRUCTION SHALL BE SEALED FROM THE EXISTING STREAM BY MEANS OF A SANDBAG BERM WHICH SHOULD BE AT THE SAME HEIGHT AS THE PLUG INSIDE THE BOX CULVERT. THIS BERM SHOULD BE TIED INTO EITHER HIGH GROUND ADJACENT TO THE CHANNEL OR THE EXISTING ROADWAY EMBANKMENT. IT SHALL BE PROVIDED WITH A SPILLWAY EQUAL IN WIDTH TO THE BOX CULVERT AND AT A HEIGHT LOWER THAN THE REST

7. THE TEMPORARY DRAINAGE PIPE SHALL BE SUPPORTED AT ALL JOINTS AND AT INTERVALS NOT TO EXCEED MAXIMUM VALUES SPECIFIED IN THE TABLE "MAXIMUM SPAN FOR PIPE SUPPORTS". SUPPORTS MAY CONSIST OF SANDBAGS. CONCRETE BLOCKS. WOODEN FRAMES. OR ANY OTHER MATERIAL SUFFICIENT TO SUPPORT THE WEIGHT OF THE PIPE WHEN IT IS FLOWING FULL. SUPPORTS AT JOINTS SHALL BE A MINIMUM OF 18 INCHES IN LENGTH, ALONG THE TEMPORARY DRAINAGE PIPE AND CENTERED ON THE JOINT. SUPPORTS SHOULD "CRADLE" THE TEMPORARY DRAINAGE PIPE TO ENSURE THAT IT WILL NOT

9. THE OPTIONAL FLEXIBLE PIPE DIVERSION USING PUMPS MAY BE USED AS AN ALTERNATE FOR SUSPENDED PIPE DIVERSIONS (UPSTREAM AND DOWNSTREAM).

10B. CONSTRUCT THE SANDBAG PLUG AT THE UPSTREAM END OF THE SUSPENDED PIPE DIVERSION.

10C. CONSTRUCT THE SANDBAG BERM AT THE DOWNSTREAM END OF THE SUSPENDED PIPE DIVERSION.

10D. ONCE THE BOX CULVERT EXTENSION HAS BEEN COMPLETED, REMOVE THE DOWNSTREAM SANDBAG STRUCTURE, EXCEPT FOR THOSE BAGS NEEDED TO SUPPORT THE END OF THE PIPE. THE UPSTREAM SANDBAG STRUCTURE SHOULD THEN BE REMOVED GRADUALLY, IN ORDER TO ALLOW THE UPSTREAM WATER LEVEL TO DRAW DOWN AT A SAFE RATE.

11. TEMPORARY DRAINAGE PIPE, SANDBAG PLUGS, BERMS, AND SUPPORTS SHOULD BE INSPECTED WEEKLY OR AFTER EVERY RAIN EVENT. ANY NEEDED REPAIRS SHALL BE DONE IMMEDIATELY. ANY DEBRIS WHICH HAS ACCUMULATED AT THE INLET OF THE SUSPENDED PIPE DIVERSION SHALL BE IMMEDIATELY REMOVED.

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TURBIDITY CURTAIN			
RBID WATER			
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- 10. MAINTAIN 12" MINIMUM GAP BETWEEN SKIRT BOTTOM AND CHANNEL BOTTOM TO PREVENT ACCUMULATED SEDIMENT FROM PULLING TOP OF CURTAIN BELOW WATER SURFACE.
- 11. IN WIND OR WAVE ACTION SITUATIONS, THE MAXIMUM DEPTH OF THE CURTAIN SHALL BE 12 FEET.
- 12. CONCENTRATED FLOWS SHALL NOT DISCHARGE BEYOND FLOATING TURBIDITY CURTAIN. CURTAINS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
- 13. WHEN INSTALLED IN A NAVIGABLE WATERWAY, BUOYS SHOULD BE LIT ACCORDING TO REGULATORY AGENCY STANDARDS.
- 14. WHEN ESTIMATING THE LENGTH OF THE TURBIDITY CURTAIN, ALLOW 10 TO 20 PERCENT VARIANCE IN STRAIGHT LINE MEASUREMENT.
- 15. PAYMENT FOR FLOATING TURBIDITY CURTAIN SHALL INCLUDE ALL MATERIAL AND ALL LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TURBIDITY CURTAIN.
- 16. ONLY FLOATING TURBIDITY CURTAINS LISTED ON THE APPROVED PRODUCTS LIST MAY BE USED.

	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
	REVISION	FLOATING TURBIDITY CURTAIN WORKING NUMBER ECD-20
	DATE	ISSUE DATE: AUGUST Ø1,2017 SHEET NUMBER 6120



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OR IN DITCHES WITH ROCKY BOTTOMS.			
EMENT INTERVAL BETWEEN SANDBAG DITCH CHECK IS 100' UNLESS SHOW	'N		
APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECL)-4.		
ENTERING A PAVED DITCH IS PREFERABLE TO CAPTURING SEDIMENT			
IEU OF SANDBAGS, ONLY WHEN PAY ITEM FOR ROCKBAGS IS INCLUDED	IN		
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MIN. COVERAGE WIDTH (E)	
EQUAL DEPTH BOTH SIDES	
4" MIN 12" OVERLAP 3" 2" TO 3" WOOD STAKES & METAL PINS/WASHERS DE ELUSH WITH O	EPTH (D)
/ LONGITUDINAL// / STAKES AT // / OVERLAPS & //	
U OUTER EDGES	(A) RACKSLOPEHOM
NO. OF STANDARD	UP BATCH BUTN UTO DITCH BUTN U OMIT STAKE IN U OMIT STAKEN, BACKSLOPF
TYPICAL DITCH SECTION	BUTS THAN LESS BEGIN INS
MAT PLACEMENT TABLE	DOMNSIN
DIMENSIONS OF MAT PLACEMENT IN DITCH (INDIVIDUAL 38" WIDTH ROLLS)	
ELEMENTS OF MAT SIDE SLOPE COMBINATIONS FORESLOPE BACKSLOPE PLACEMENT 3:1 & 3:1 & 3:1 & 6:1 & 3:1 & 6:1 & 3:1 & 6:1	
(A) UP BACKSLOPE TO $1' - 7''$ $1' - 1''$ $0' - 4''$ $0' - 10''$ $0' - 11/2''$	_
(B) BACKSLOPE $4' - \emptyset''$ $3' - 6''$ $2' - 9''$ $3' - 3''$ $3' - 5 1/2''$	
(C) FORESLOPE $4' - 0''$ $4' - 6''$ $5' - 3''$ $4' - 9''$ $5' - 5 1/2''$	
(D) DEPTH OF COVERAGE $1' - 3''$ $1' - 1''$ $0' - 10''$ $0' - 9''$ $0' - 11''$ (E) WIDTH OF COVERAGE $7' - 7''$ $7' - 8'''$ $7' - 9'''$ $7' - 10'''$ $10' - 9''$	
(F) MINIMUM NUMBER OF 3 3 3 4	
(B) + (C) TOTAL COVERAGE 8' - Ø'' 8' - Ø'' 8' - Ø'' 8' - Ø'' 10' - 11''	
SQ. YDS./LIN. FT. Ø.89 Ø.89 Ø.89 1.22	
MULTI – WIDTH WELDED SEAM MAT (WELDED 38" WIDTH STRIPS)	-
MULTI-WIDTH ROLLS 8' - 3" 8' - 3" 8' - 3" 8' - 3"	
SQ. YDS./LIN. FT. 0.92 0.92 0.92 1.25	
GENERAL INSTRUCTIONS: 1. BEGIN INSTALLATION AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.	
2. FIRST ROLL IS ALIGNED FROM DITCH BOTTOM UP BACKSLOPE (SEE MAT PLACEMENT TABLE)AND UNDER MODERATE TENSION TEMPORARILY STAKED TO MAINTAIN PROPER DESIGN COVERAGE ALIGHMENT.	
3. WORKING OUTWARD FROM DITCH BOTTOM TO EDGES, SUBSEQUENT ADJACENT ROLLS FOLLOW	
 4. OVERLAP MAT SEAMS 3 INCHES AND STAKE AT 3-FT. INTERVALS WITH STAKES ALIGNED LONGITUDINALLY TO DITCH AND DIAGONAL EDGE OF STAKE TO THE UPSTREAM. OUTER EDGES (PERIMETER) OF MAT ARE ST SIMILARLY. 	2″ TO 3″ - WO MEATL PINS - DRIVEN FLUSH TAKED GROUND
5. STAKE THE CENTER OF EACH MAT STRIP AND WHEN REQUIRED ALONG THE DITCH BOTTOM AT 6-FT. INTERVALS STAGGERED BETWEEN THE 3-FT.SPACING OF OVERLAP AND OUTER EDGE STAKES WITH THE BROADSIDE TO THE FLOW DIRECTION AND DIAGONAL EDGE TOWARD THE SLOPE.	
6. USE 3-FT.OVERLAP AT END OF MAT ROLL SPLICES WITH UPGRADE STRIP ON TOP,STAKED IN TWO ROWS 30 INCHES APART,AND STAKES 18 INCHES APART ACROSS FULL WIDTH.	5
7. TRANSVERSE CHECK SLOTS 6 INCHES WIDE BY 9 INCHES DEEP ARE EXCAVATED AT 25-FT.INTERVALS WITH STAKES 12 INCHES APART FULL WIDTH OF TREATMENT. WELDED SEAM MULTI-WIDTH MAT WILL HAV SIMILAR TRANSVERSE CHECKS OMITTING EXCAVATED SLOTS ONLY.	А. В. С.
8. END INSTALLATION AT UPSTREAM TERMINAL. TEMPORARY STAKING MAY BE PLACED TO BECOME PART OF PERMANENT STAKING PATTERN.	
25' INTERVAL EXCAVATED TRANSVERSE CHECK SLOT	R SLOT ROLL NO. 1 38" C DITC BOTT TO UPHILL PERIMETER SLOT
SEQUENTIAL ROLL RUN O)UT

IN DITCH WITH STAKING DETAIL





THE COST OF SHOULDER BERM, STAKING, AND OUTFLOW PROTECTION SHALL BE INCLUDED IN OTHER ITEMS BID.

SLOPE TO DRAIN TOWARD TEMPORARY SLOPE DRAIN INSTALLATION.

BERM MAY BE CONSTRUCTED FROM EXCAVATED -MATERIAL USING HEEL OF MOTOR GRADER, BULLDOZER BLADE OF OTHER APPROVED EQUIPMENT.

EXTEND DRAIN AS REQUIRED TO -COINCIDE WITH HEIGHT OF EMBANKMENT BY THE END OF EACH WORK DAY. ∕— ELBO₩ TEMPORARY SLOPE DRAIN TEMPORARY RIPRAP, WHERE OUTLET LOCATION IS SUBJECT TO SCOUR. - ELBOW /--- NATURAL GROUND The second secon





OR DEEMED APPROPRIATE BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.













DETAIL OF LONGITUDINAL OVERLAP





			BΥ	MISSISSIPPI DEPARTMENT OF TRANSF ROADWAY DESIGN DIVISION	PORTATION		
ST,OTHER Y				STANDARD PLAN			
CED RS "F",ONE (1) Guardrail Bolt			REVISION	GUARDRAIL: "W" BEAM (WOOD POSTS)	WORKING NUMBER		
FROM 6" X 12"					GR-1		
			DATE	ISSUE DATE:AUGUST Ø1, 2017	sheet number 62Ø1		



				MISSISSIPPI DEPARTMENT OF TRANS ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
ABRICATED			BEVISION	GUARDRAIL: THRIE BEAM (WOOD POSTS)	WORKING NUMBER GR-1A
				ISSUE DATE: AUGUST Ø1, 2017	sheet number 62Ø2



6. ALL HOLES IN BOTH STEEL POSTS AND MODIFIED WOOD BLOCKOUTS ARE $\frac{3}{4}$ " in diameter.

		BY	MISSISSIPPI DEPARTMENT OF TRANSF ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
POST.		ISION	GUARDRAIL: "W" BEAM	
- ΡΙΔΝς		REV	(STEEL POSTS)	WORKING NUMBER GR-1B
		DATE	ISSUE DATE:AUGUST Ø1,2017	sheet number 62Ø3





	STATE	PROJECT NO.
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	<i>¬</i> "	
13/."	<u> </u>	
$\frac{7}{8}$ " - 9 UNC THREAD $\frac{9}{64}$ " (NOM.)		
$(MIN.) \rightarrow (MIN.)$		
$AS \qquad \left \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	ן 1″X" פן גו∩ד	1/16
CIFIED (NOM.)	JLUT	
HIGH-STRENGTH STRUCTURAL PLAIN ROUND WASHER "F" RE	CTANGULA	٨R
HEX NUT AND BOLT "C"		
	AIE VVASH	EK
FASTENER DETAILS		
DRAIL BOLT "C" WITH RECTANGULAR		
DRAIL PLATE WASHER /WOOD BLOCKOUT,		
ER "F" UNDER RECESSED NUT. $29^{1/2}$ " LONG		
	Ī	
W6 X 9		
σ 2° STEEL PUST, σ 2° 2° 2° 2° 2°		
\sim C6 × 8.2 – \sim		
	۔ و	
10:1 SLOPE 4"	ů,	
OR FLATTER $2'-0''$		
BOLI (15") WITH RECTANGULAR (MIN.) '		
AND PLAIN ROUND		
UNDER RECESSED NUT.		
E 00%		
SECTION A-A		
GENERAL NOTES (CONTINUED):		
3. GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M	180,CLASS	A, TYPE 1
T UNLESS OTHERWISE DESIGNATED.		
4. THE TYPE "I" TRANSITION IS USED ON BOTH LEFT AND RIG	HT SIDES C	OF EACH
LAPPED IN THE DIRECTION OF APPROACHING TRAFFIC.	L SECTIONS	S SHALL DE
5. POSTS SHALL CONFORM TO AASHTO M 270/M 270 (ASTM A	. 709/A 70	9M) GRADE
250 STEEL UNLESS CORROSION RESISTANT STEEL IS REQUI	RED IN WHI	CH CASE
DEFINED IN AASHTO M 160M (ASTM A 6M). THE SECTION S	9 DIMENSI HOULD BE 7	UNS ARE 7INC-
COATED PER AASHTO M 111 (ASTM A 123) AFTER CUTTING, D	RILLING OR	
PUNCHING. CORROSION RESISTANT STEEL SHOULD NOT BE Z	INC COATE), PAINTED
TOUGHNESS IN AASHTO M 270/A 270 M.	TRACTORE	CHITICAL
6. FOR FASTENER DETAILS NOT FOUND ON THIS SHEET, SEE SH	HEET GR-1B.	•
7. DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "	W″ AND THR	RIE-BEAM
SECTIONS NOT SPECIFICALLY MODIFIED ON THIS SHEET WIL	L BE FOUNI	D ON
8 FOR OTHER DETAILS OF POSTS POST ACCESSORIES FASTEN	FRS & RAII	FIFMENTS
SEE AASHTO-AGC-ARTBA JOINT TASK FORCE NO. 13 GUIDE T	ITLED "A (GUIDE TO
STANDARDIZED HIGHWAY BARRIER HARDWARE", LATEST EDITI	ON.	
9. ALL WOOD BLOCKOUTS SHALL BE TREATED TIMBER IN ACCOP	RDANCE WIT	H Ions
10 FOR DETAIL OF NOTCH IN MODIFIED WOOD BLOCKOUTS SEE	SHEET GR-1	IG 101.
	SHEET ON I	
	F TRANS	SPORTATION
KUADWAY DESIGN STANDARD D	LAN	i i
GUARDRAIL:		
	N	
		WORKING NUMBER
		GR-2G
	17	SHEET NUMBER
	1 1	- 6211





SECTION A-A



	STATE	PROJECT NO.
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* NOTE, IE EORESLOPE SHOWN ELSEWHERE ON		
PLANS, IS OTHER THAN 6:1, TRANSITION	N	
WILL OCCUR IN AREA SHOWN.		
DETAIL OF GUARDRAIL SEC	HUN LAPS	
GENERAL NOTES:		
1. VALUES FOR "A", "B", "C" AND "D" WI	ILL BE SHOWN ELSEWHER	E ON
THE PLANS.		
2 FOR DETAILS PERTINENT TO INSTAL	ILATION OF THE TERMINA	
SECTION, SEE MANUFACTURER'S SPEC	CIFICATIONS AND DRAWIN	GS
OR ELSEWHERE UN PLANS		
3. GUARDRAIL SECTIONS SHALL BE LA	PPED IN THE DIRECTION	
OF TRAFFIC AFTROACTING THE DRI		
4. THE OVERALL LENGTH OF GUARDRAI	L IS MEASURED FROM	
THE CONNECTING END ON THE DRID	02.	
5. IN THE ABSENCE OF A BRIDGE END BRIDGE END SECTION TO THE BRID) PAVEMENT RAIL, CONNE() of RAIL (see wk nos g	CT THE R-2 THRU
GR-2G). THE SHOULDER WIDTH AT T	THE BRIDGE END PAVEMEN	NT RAIL OR
BRIDGE END RAIL SHOULD BE SUFF MINIMUM OF 2'-0" BEHIND THE BA	FICIENTLY WIDE TO PROV	IDE A
BREAK (HINGEPOINT).		JEONE
6. TYPE, DETAILS AND LIMITS OF GUA	RDRAIL BRIDGE END	
SECTION WILL BE SHOWN ELSEWHER	RE ON THE PLANS.	
7. W = SHOULDER WIDTH + FORESLOPE	E WIDTH. DIMENSIONS	
FOUND ELSEWHERE ON THE PLANS.		
MIGGIGGIDDI NEDADT		
$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Y DESIGN DIVISION	
STA	ANDARD PLAN	
)RAIL:	
	ΤΔΙΙΔΤΙΩΝ	
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
	$IF 2_W/AV$	
		GR-4A
		SHEET NUMBER
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GENERAL

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0 POST			54	
		۳ ۳	FOR	
			- 0 " 0 1	
			J'	
– POST)IA. H	
			3/8 "	
NHITE				
ELINEATOR				-
DETAIL OF DOUBLE WHITE	OR RFAF	{	 0F	
DOUBLE YELLOW DELINEA	TOR DELINEA	FOR ASS	SEMBLY	
NOTE: DELINEATORS S	BALL BE FASTENED TO U BLIND FASTENERS OF TH	J-SECTION E COLLAR ⁻	TYPE.	
AIL				
NOTEC				
NUIES:	II RE DEELECTIVE SUEE	TINC		
ON Ø.080" THICK ALUMINUM SHEET OR 14 GAGE	GALVANIZED SHEET STEE	EL.		
DELINEATOR, TYPE 3 OBJECT MARKER AND DIST SHALL BE GALVANIZED STEEL, THE POSTS SHAL	ANCE REFERENCE SIGN P	OSTS RETHE		
METAL IS GALVANIZED.				
WEIGHT WITHOUT GROUND PLATES: A. DELINEATOR POST 7'-0" - 2.0 Ib/ft TO 2.5	Ib/ft			
B. TYPE 3 OBJECT MARKER POST 9'-0" - 2.5 H C. DISTANCE REFERENCE SIGN POST 10'-0", 11'-	0/tt IU 3.0 lb/ft 0",			
& 12'-0" - 3.0 ID/TT TO 3.5 ID/TT	TOT MARKERS SUALL THE			
COST OF POST. DISTANCE REFERENCE SIGN POS	ST WILL BE PAID FOR PE	ER FOOT.		
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.			
$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	I DEPARTMENT O	F TRANS	SPORTATI	[ON
	STANDARD P	LAN		
	AL INSTALLAT	ION		
	ID DETAILS O	F		
	INEATORS AN	D		OT
	LE KEFEKENCE	SIGNS		
			SHEET NU	ර් JMBER
	AUGUST Ø1,201	7	631	4



(TWO–WAY TRAFFIC)

ROADSIDE OBSTACLE INSTALLATION-LENGTH 250' OR LESS (ONE-WAY TRAFFIC)





PLAN VIEWS



TYPICAL FLEXIBLE POST DELINEATOR GUARDRAIL INSTALLATION

NOTE:ONE-DELINEATO FIRST THR SHOWN IN

GENERAL NOT

1. THE U HARDV 2. DELIN 3. DELIN THE U AND RECO



		STATE	PROJECT NO.
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-3″			
10/ 0/ 6/-3"			
● 18'-9" ● 18'-9" ● 6'-3"			
• 37'-6" • 18'-9"	 ■ 18'-9" ●^{6'-3"} 		
37'-6" 37'-6"	• 37'-6" • 18'-	<u>-9″ • 18′-9'</u>	<u>"</u> 6′-3″
SHOWING SPACINGS OF G	UARDRAIL DELINEATORS		
UNE CUMIMUNLY USED BI	RIDGE APPROACHES		
	56'-3	3″ 18′-	
)	<u>A A A A K</u> A	AKHAL
		9999 8 9	H K H H K
ADSIDE OBSTACLE INSTAL	LATION-LENGTH GREATER	THAN 2	250′
UNE-VVAY IRA Way traffic shown. delineator s	FFIL) Spacing for two-way traffic si	MILAR.	
R COLOR WILL BE THE SAME AS THE REE (3) MARKERS WILL FACE TRAFFIC DRAWING FOR OBSTACLE INSTALLATI	IN OFF LANE FOR TWO-WAY TRAFF	IC AS	
DRAWING FOR ODSTACLE INSTALLATI	UN FUN TWO WAT TRAFFIC.		
res:			
E UNIT PRICE OF DELINEATOR INCLU	DES:COST(S)OF DELINEATOR FACE(S), POST,	
RUWARE AND INSTALLATION.	TED LENS REFLECTIVE SHEETING		
LINEATORS FOR GUARDRAIL SHALL BI	E MOUNTED ON FLEXIBLE POSTS AS	S FOLLOWS:	
E DELINEATOR POSTS WILL BE FROM D WILL BE FASTENED TO GUARDRAIL	THE DEPARTMENTS "APPROVED SO POST IN ACCORDANCE WITH THE N	URCE OF MATE	ERIALS" R'S
COMMENDATION.			
	AISSISSIPPI DEPARTMENT ROADWAY DESIG	OF TRANS N DIVISION	PORTATION
	STANDARD	PLAN	
	TVDICAL ALLAND	~ / /	
	ITPICAL GUARDR	₩1L	
			SN-8C
	SSUE DATE:AUGUST Ø1, 2	Ø17	SHEET NUMBER 6317

DRAWING NOT INTENDED TO REPRESENT PAVEMENT MARKING DETAILS



SIGN QUANTITES FOR UNDIVIDED HIGHWAY (PER SIGN)

MUTCD NUMBER	STANDARD ROAD SIGNS SHEET ALUMINUM Ø.Ø8Ø" THICKNESS	STANDARD ROAD SIGNS SHEET ALUMINUM Ø.125" THICKNESS	SQUARE FEET Ø.080" THICKNESS	SQUARE FEET Ø.125″ THICKNESS	U-SECTION POST (3-P)
OM3-L	12″ X 36″		3 SF		9 LF
OM3-R	12″X 36″		3 SF		9 LF
W8-13		36″ X 36″		9 SF	15 LF

SIGN QUANTITES FOR DIVIDED HIGHWAY (PER SIGN)							
MUTCD NUMBER	STANDARD ROAD SIGNS SHEET ALUMINUM Ø.Ø80″ THICKNESS	STANDARD ROAD SIGNS SHEET ALUMINUM Ø.125" THICKNESS	SQUARE FEET Ø.080" THICKNESS	SQUARE FEET Ø.125″ THICKNESS	U-SECTION POST (3-P)	STANDARD 4" PIPE	
OM3-L	12" X 36"		3 SF		9 LF		
OM3-R	12″ X 36″		3 SF		9 LF		
W8-13		48" X 48"		16 SF		16.5 LF	



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1 REFLECTIVE ADHESIVE SHEETING WITH ALTERNATING BLACK AND YELLOW STRIPES (SLOPING DOWNWARD)AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS)IS REQUIRED ON THE END OF THE TERMINAL END SECTION. NOT A SEPARATE PAY ITEM. COST

★ TABLE ₩ MUTCI	2C-4 D
SPEED (MPH)	MINIMUM PLACEMENT (FEET)
35	100
40	125
45	175
5Ø	250
55	325
6Ø	400
65	475
7Ø	550

MISSISSIPPI DEPARTMENT OF TRANSP ROADWAY DESIGN DIVISION	ORTATION
5 SIGNING DETAILS FOR	
BRIDGE APPROACHES	
	working number SN-9
ISSUE DATE: AUGUST Ø1, 2017	sheet number 6318



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.

POSTED SPEED AND/OR	M CHA DEVIC	AXIMUM NNELIZING CE SPACING (f†)	t LONGITUDINAL BUFFER SPACE	STOPPING SIGHT
DESIGN SPEED	TAPER	ALONG LANE LINE &	(f+)	DISTANCE
mpn		WORK ZONE		
25	2Ø	5Ø	55	155
30	2Ø	6Ø	85	200
35	2Ø	7Ø	12Ø	25Ø
4Ø	2Ø	8Ø	17Ø	305
45	2Ø	90	22Ø	36Ø
50	2Ø	100	28Ø	425
55	2Ø	11Ø	335	495
60	20	12Ø	415	57Ø
65	2Ø	130	485	645

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

- 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.

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	/							
	LEGE							
	LEGE FL							
	LEGE FL RE O TR	ND AGGER ETROREFLECTIN RAFFIC CONES	/E FREE-ST/ (28″ HEIGHT	ANDING PL MINIMUM	ASTIC	DRUMS		
	LEGE FL RE O TR	ND AGGER ETROREFLECTIN RAFFIC CONES	/E FREE-ST/ (28″ HEIGHT	ANDING PL MINIMUM	ASTIC	DRUMS		
	LEGE FL • RE • TF	ND AGGER ETROREFLECTIN RAFFIC CONES	VE FREE-ST⊄ (28″ HEIGHT	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE	LEGE FL RE O TF	ND AGGER ETROREFLECTIV RAFFIC CONES EN SIGNS	VE FREE-ST↓ (28″ HEIGHT	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE	LEGE FL RE O TF BETWEI A	ND AGGER ETROREFLECTIV RAFFIC CONES EN SIGNS B	/E FREE-ST/ (28″ HEIGHT	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH)	LEGE FL FL RE O TF BETWEI A 100 FT. 350 FT.	ND AGGER ETROREFLECTIV RAFFIC CONES EN SIGNS B 100 FT. 350 FT.	/E FREE-ST/ (28″ HEIGHT C 100 FT. 350 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH)	LEGE FL FL RE O TF BETVVEI A 100 FT. 350 FT. 500 FT.	ND AGGER ETROREFLECTIV RAFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT.	/E FREE-ST/ (28″ HEIGHT C 100 FT. 350 FT. 500 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL E BETWEI A 100 FT. 350 FT. 500 FT. 1000 FT.	ND AGGER TROREFLECTIV AFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	/E FREE-ST/ (28″ HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL E RE O TF BETVEL A 100 FT. 350 FT. 500 FT. 1000 FT.	ND AGGER TROREFLECTIV AFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	VE FREE-STA (28″ HEIGHT (28″ HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL E RE O TF BETVEL A 100 FT. 350 FT. 500 FT. 1000 FT.	ND AGGER ETROREFLECTIV RAFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	/E FREE-STA (28″ HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL E RE O TF BETV/EL A 100 FT. 350 FT. 500 FT. 1000 FT.	ND AGGER TROREFLECTIV AFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	/E FREE-STA (28" HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL E BETVVEI A 100 FT. 350 FT. 500 FT. 1000 FT.	ND AGGER ETROREFLECTIV AFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	/E FREE-STA (28" HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL C TF C TF	ND AGGER ETROREFLECTIV RAFFIC CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	/E FREE-STA (28" HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC	DRUMS		
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL E RE O TF O TF 100 FT. 350 FT. 350 FT. 1000 FT.	ND AGGER ETROREFLECTINAL AFFIC CONES B 100 FT. 350 FT. 500 FT. 1500 FT.	VE FREE-STA (28" HEIGHT 28" HEIGHT 00 FT. 350 FT. 350 FT. 2640 FT. 2640 FT.		ASTIC	DRUMS	SPORTATI	ON
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL FL TR TR TR TR TR TR TR TR TR TR	ND AGGER ETROREFLECTIN AFFIC CONES B 100 FT. 350 FT. 350 FT. 1500 FT. 1500 FT.	VE FREE-STA (28" HEIGHT 28" HEIGHT 00 FT. 350 FT. 500 FT. 2640 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC) NT OI ESIGN ARD PI	DRUMS	SPORTATI	ON
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL ERE O TF BETWEI A 100 FT. 350 FT. 350 FT. 1000 FT. 1000 FT.	ND AGGER ETROREFLECTIVE CONES EN SIGNS B 100 FT. 350 FT. 500 FT. 1500 FT.	VE FREE-STA (28" HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC) NT OI ESIGN ARD PI	DRUMS	SPORTATI	ON
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL FR O TF BETWEI A 100 FT. 350 FT. 350 FT. 1000 FT. 1000 FT.	ND AGGER ETROREFLECTINAL AFFIC CONES B 100 FT. 350 FT. 500 FT. 1500 FT.	VE FREE-STA (28" HEIGHT 28" HEIGHT C 100 FT. 350 FT. 350 FT. 2640 FT. 2640 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC) NT OF ESIGN ARD PI	DRUMS	SPORTATI	ON
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL FR O TF BETWEI A 100 FT. 350 FT. 350 FT. 1000 FT. 1000 FT.	ND AGGER ETROREFLECTIVE AFFIC CONES B 100 FT. 350 FT. 500 FT. 1500 FT.	C 100 FT. 350 FT. 2640 FT. 2640 FT. 2640 FT. 2640 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC) NT OH ESIGN ARD PI	DRUMS	SPORTATI	ON
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL FL FL ERE O TF BETWEI A 100 FT. 350 FT. 350 FT. 1000 FT. 1000 FT.	ND AGGER ETROREFLECTINAL AFFIC CONES B 100 FT. 350 FT. 500 FT. 1500 FT.	C 100 FT. 350 FT. 500 FT. 2640 FT. 2640 FT. FFIC C NE-LAN ONE-LAN ONE-LAN TWO-W	ANDING PL MINIMUM	ASTIC) NT OF ESIGN ARD PI COL SGER URE O AFFIC)	DRUMS	SPORTATI VORKING N	
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL • RE 0 TF 8 8 8 8 100 FT. 350 FT. 350 FT. 1000 FT. 1000 FT.	ND AGGER ETROREFLECTINAL AFFIC CONES B 100 FT. 350 FT. 500 FT. 1500 FT.	C 100 FT. 350 FT. 500 FT. 2640 FT. 2640 FT. FFIC C NE-LAN ONE-LAN ONE-LAN ONE-LAN ONE-LAN TWO-W	ANDING PL MINIMUM	ASTIC) NT OH ESIGN ARD PI SGER URE O AFFIC)	DRUMS	SPORTATI VORKING N TCP	OF TRANSPORTATION UMBER - 1
DISTANCE ROAD TYPE (35 MPH OR LESS) (40 - 70 MPH) SWAY / FREEWAY	LEGE FL • RE 0 TF 8 8 8 8 100 FT. 350 FT. 350 FT. 1000 FT. 1000 FT.	ND AGGER ETROREFLECTINAL AFFIC CONES B 100 FT. 350 FT. 500 FT. 1500 FT.	VE FREE-STA (28" HEIGHT 28" HEIGHT C 100 FT. 350 FT. 500 FT. 2640 FT. 2640 FT. 2640 FT.	ANDING PL MINIMUM	ASTIC) NT OH ESIGN ARD PI SGER URE O SFFIC)	DRUMS TRAN DIVISION AN PLAN PLAN 20F	SPORTATI WORKING N TCP SHEET NU 635	OF IRANSPORTATION UMBER - 1 MBER 1



C. AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL SPEED, THE CHANGABLE MESSAGE SIGNS TURNED OFF.

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				F	DGE LINES		
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VEHICLE		\times	\				
		$\times \times$		— WORK AREA			
	Г			MISSISSIDDI	DEPARTMENT	OF TRANG	PORTATION
	_		B	1.110010011 1 1	ROADWAY DESIG	N DIVISION	
					STANDARD	PLAN	
				СП	ידאפווה דפר		
			VISIO	эп CLOSII	VG OF TWO)_LANF	
			RE	TWO-	WAY HIGHV	VAYS	
				-			WORKING NUMBER
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			DAT	ISSUE DATE:_	AUGUST Ø1,20	017	6356







BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

	I	н	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.

3. WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-Ø" FROM THE EDGE OF TRAVELED LANE.

	BY	MISSISSIPPI DEPARTMENT OF TRANS Roadway design division standard plan	PORTATION
	REVISION	HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	WORKING NUMBER
	DATE	ISSUE DATE: AUGUST Ø1,2017	sheet number 6358

MOBILE OPERATIONS ON MULTILANE ROAD



MOBILE OPERATIONS ON MULTILANE ROAD

NOTES FOR MULTILANE LANE OPERATION:

- 1. VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLAGS, SIGNS, OR ARROW PANELS.
- 2. SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA). AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED ON SHADOW VEHICLE 2 SO AS NOT TO OBSCURE THE ARROW PANEL.
- 3. SHADOW VEHICLE 1 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK-MOUNTED ATTENUATOR (TMA).
- 4. SHADOW VEHICLE 2 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
- 5. WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, SHADOW VEHICLE 2 SHOULD BE ELIMINATED.
- 6. ON HIGH-SPEED ROADWAYS, A THIRD SHADOW VEHICLE SHOULD BE USED (i.e., VEHICLE 3 ON THE SHOULDER (IF PRACTICAL), VEHICLE 2 IN THE CLOSED LANE, AND VEHICLE 1 IN THE CLOSED LANE).
- 7. ARROW PANELS SHALL BE AS A MINIMUM TYPE B,60" X 30" IN ACCORDANCE WITH THE CRITERIA PRESENTED IN THE MUTCD.
- 8. WORK SHOULD NORMALLY BE DONE DURING OFF-PEAK HOURS.
- 9. VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- 10. 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.

MOBILE OPERATIO



NOTE: USE OF CHANGEABLE MESSAGE SIGN IS OPTIONAL

MOBILE OPERA

NOTES FOR TWO-LANE OPERATION:

- 1. WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THI NOT BE DONE FREQUENTLY, AS AN ALTERNATIVE, A "DO NOT PASS" SIGN PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
- TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. SHADOW VEHICL ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, THE SHADOW VEHICLE SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME THE WORK VEHICLE. THE SHADOW VEHICLE SHOULD SLOW DOWN IN ADVAN OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE. OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USE AND MAY BE USED ON THE WORK VEHICLE. VEHICLES SHALL BE EQUIPPED WITH TWO HIGH-INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN. SHADOW AND W VEHICLES SHALL DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWA TO THE REAR. AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED
- 2. THE DISTANCE BETWEEN THE WORK AND SHADOW VEHICLES MAY VARY AC 3. ADDITIONAL SHADOW VEHICLES TO WARN AND REDUCE THE SPEED OF ON 4. A TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW 5. THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE SHADOW 6. VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF TH

- WORK IS NOT IN PROGRESS.
- 7. ARROW BOARD TO BE USED IN CAUTION MODE.
- 8. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEAS FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE MAINTENANCE OF TRAFFIC.

	STATE	PROJECT NO.
ONS ON TWO-LANE ROAD	MISS.	
JNS ON TWO-LANE ROAD	IAPE AND ROPRIATE WORK	
S CAN MAY BE		
CCORDING		
ES QUATE		
SPEED AS		
ICOMING ED FOR THIS PURPOSE.		
VEHICLE		
W		
VORK ARD AND STAN	ENT OF TRANS Design division Dard plan	SPORTATION
HE SIGN LOCATED E OBSCURED BY D FROM VIEW WHEN	ROL PLAN	
SURED MULTILANE AND TWO-LANE	ROADS ROADS	WORKING NUMBER
BID FOR ISSUE DATE: AUGUS	T Ø1,2017	ICP-9 Sheet Number - 6359



GENERAL NOTES:

- 1. UNEVEN LANE LINE:

		REVISION BY	MISSISSIPPI DEPARTMENT OF TRANSI ROADWAY DESIGN DIVISION STANDARD PLAN TRAFFIC CONTROL PLANS UNEVEN PAVEMENT DETAILS	PORTATION PORTATION WORKING NUMBER TCP-12
		DATE	ISSUE DATE:AUGUST Ø1, 2017	SHEET NUMBER

PROJECT NO.

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MISS.

A. IF LESS THAN OR EQUAL TO 1¹/₂", NO SIGNS REQUIRED.
B. IF GREATER THAN 1¹/₂" AND LESS THAN OR EQUAL TO 2¹/₄", PLACE SIGNS AS SHOWN ON THIS SHEET.
C. IF GREATER THAN 2¹/₄", TRAFFIC SHOULD NOT BE ALLOWED TO CROSS UNEVEN LANE LINE. 2. THE W8-11 SIGNS SHOULD BE SPACED AT $^{1}\!/_{4}$ -MILE INTERVALS THROUGHOUT UNEVEN LANE LINE LIMITS. 3. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.





STATE | PROJECT NO. MISS. // 4" CONTINUOUS WHITE EDGE STRIPE (***) YELLOW (* *)— --Ę JOINT ____4" CONTINUOUS WHITE EDGE STRIPE (**) - DETAIL "A" DIRECTION OF TRAFFIC GENERAL NOTES: * 1. 3" UNLESS SHOWN ELSEWHERE ON THE PLANS. * * 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR TAPE AS INDICATED IN PAY ITEMS). 3. REFLECTIVE RAISED PAVEMENT MARKERS TO BE USED IF TEMPORARY MARKINGS ARE TO REMAIN IN PLACE OVER 3 MONTHS * * * 4. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS: urban area RURAL AREA (ft-in) (ft-in) TANGENT SECTIONS 40'-0" 80′-0″ HORIZONTAL CURVES 40'-0" 40'-0" INTERCHANGE LIMITS 40'-0" + 40'-0" + NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE

> 5. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS."

END OF THE ENTRANCE RAMP TAPER.

	BΥ	MISSISSIPPI DEPARTMENT OF TRANS ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
	ISION	TEMPORARY STRIPING FOR TRAFFIC CONTROL	2
	REV	2–LANE AND 4–LANE DIVIDED HIGHWAYS	MISSISSIPI DEPARIMENT OF TRANSPORTATION
			working number TCP-13
	DATE	ISSUE DATE: AUGUST Ø1, 2017	SHEET NUMBER
		DATE REVISION BY	MISSISSIPPI DEPARTMENT OF TRANS ROADWAY DESIGN DIVISION STANDARD PLAN TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE AND 4-LANE DIVIDED HIGHWAYS ISSUE DATE: <u>AUGUST Ø1, 2017</u>









GRANULAR MATERIAL REQUIRED (SAME CLASSIFICATION AS SHOULDER MATERIAL, SEE TYPICAL SECTIONS)

DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF

NOTES:

₭ A. PAVEMENT EDGE DROP-OFF

- 1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECT OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT
- 2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICA OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PL TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1 /
- 3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THE
- 4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS
- 5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CON

B. DRUM SPACING

- 1. TANGENTS = 2 X S
- 2. TAPERS = L / 3
- WHERE L = S X W
- L = TAPER LENGTH IN FEET
- S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
- W = WIDTH OF OFFSET IN FEET
- C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAI TABLE VI-1. GUIDELINES FOR LENGTH OF

LONGITUDINAL BUFFER SPACE

★★ SPEED (MPH)	LENGTH (FEET)		
2Ø	35		
25	55		
30	85		
35	120		
40	17Ø		
45	220		
50	28Ø		
55	335		
60	415		
65	485		

★ ★ POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH.

	STATE	PROJECT NO.
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NG		
M5		
4:1 OR FLATTER SLOPE		
K V		
ORIGINAL GROUND LINE	Ξ	
TION REQUIRED. PLACE A SHOULDER WORK SIGN (W21-5) 500 F THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750'+0.	LET IN ADVANCE .C.).	
AL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SE ACE OF DRUMS,PANELS,AND BARRICADES DURING DAYLIGHT H R AND FOR CURVES,DEVICES SHOULD BE PLACED EVERY 50 F 3 L,WHERE L IS THE TAPER LENGTH IN FEET.)	CTIONS FOR SPEEDS HOURS. FOR EET. SPACING	
E WITH 4:1 OR FLATTER SLOPE NEEDED.IF THERE IS EIGHT (HEN DRUMS, PANELS OR BARRICADES MAY BE USED.	8)FEET OR MORE	
3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS BEING DONE IN THE DROP-OFF AREA.	S OR BARRICADES	
NSIDERED FOR LOW-VOLUME LOCAL STREETS.		
ID FOR LINDER MAINTENANCE OF TRAFFIC		
ID FOR UNDER WAINTENANCE OF TRAFFIC.		
MISSISSIPPI DEPART ROADWA	MENT OF TRANS Y DESIGN DIVISION	SPORTATION
STA	NDARD PLAN	
	ROL DETAILS	
	CEMENT D	
	CLOSURE	
		TCP-16
AUGUS	ST Ø1,2017	_ SHEET NUMBER _ 6366





¥	DRIVEWAY SIDE SLOPE	S
	WITHIN CLEAR ZONE	V ≥ 50 mph - DES.10:1 MAX 6:1 V ≤ 45 mph - MAX.3:1
	OUTSIDE CLEAR ZONE	MAXIMUM - 3:1





SECTION B-B

STACKED PIPE JOINTS

NOTE: EACH STACKED PIPE JOINT SHALL BE TREATED FIRST WITH A BITUMINOUS PLASTIC SEALER MATERIAL AND SECONDLY WRAPPED WITH 24" WIDE TYPE V GEOTEXTILE FABRIC (AASHTO M 288). THE FABRIC SHALL OVERLAP A MINIMUM OF 12" AT THE WRAP AND SHALL BE SECURED WITH STRING OR WIRE AS APPROVED BY THE ENGINEER PRIOR TO BACKFILLING. THE COST SHALL BE ABSORBED IN OTHER ITEMS BID.







CROSS-SECTION SHOWING UNDER EMBANKMENTS

EXCAVATION AT

	CT		
	MISS.	PRUJECI I	νU.
CAVATION AT GRADE POINTS			
ROPOSED DADWAY /SUBGRADE			
REQUIRED BENCHING ON STEEP SLOPES			
GRADE POINTS			
MISSISSIPPI DEPARTMENT (ROADWAY DESIGN STANDARD	OF TRANS DIVISION PLAN	SPORTATIO)N
Image: Miscellaneous Discrete Image: Miscellaneous Discrete Image: Miscellaneous Discrete Image: Miscellaneous Discrete	ETAIL		
1. STACKED PIPE JOINTS	F DOINTS		DT
2. EACAVAIION AI GRAD			ransportation MBER 1
ISSUE DATE: AUGUST Ø1, 20	017	SHEET NUM	- BER)



	CORRU	GATED	STEE	el and alu	MINUM PIPE	E (ROUND)	
				MAXIMUM FILL	_ HEIGHT ABOVE	TOP OF PIPE (ft	+)
				S	HEET THICKNESS	(in)	
		0.064 5	STEEL	Ø.079 STEEL	Ø.109 STEEL	Ø.138 STEEL	Ø.168 STEEL
PIPE	MINIMUM COVER	0.060	ALUM.	Ø.Ø75 ALUM.	Ø.105 ALUM.	Ø.135 ALUM.	Ø.164 ALUM.
DIAMETER	FROM TOP OF	16 GA	AGE	14 GAGE	12 GAGE	10 GAGE	8 GAGE
(in)	OF SUBGRADE (in)	2 CORRU	² / ₃ " x / Gated Helica	′²″ STEEL / C L	3" X 1" OR 5" X ORRUGATED STEE HELICAL	1″ 2 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′/ - /109′	- / - / -	- / - / -
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		ALUMINUM
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)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft ²)
				t 4 tons/ft ²		t 4 tons/ft ²
			2 ² /3"	X / ₂ " CORRUGATION	22/	3″X 1/2″ CORRUGATION
				HELICAL	R	IVETED OR HELICAL
15″	17" X 13"	12″	Ø.Ø64″	13′	0.060″	13'
18″	21" X 15"	12″	Ø.Ø64″	12'	0.060″	12'
24″	28″ X 20″	12″	0.064″	12'	0.075″	12'
30″	35″ X 24″	12″	0.064″	12'	0.075″	12'
36″	42" X 29"	12″	0.064″	12'	0.105"	12'
42″	49" X 33"	12″	0.079″	12'	0.105"	12'
48″	57" X 38"	12″	0.109"	12'	0.135"	12'
54″	64" X 43"	12″	0.109"	12'	0.135"	12'
60″	71" X 47"	12″	0.138″	12'	0.164″	12'
66″	77" X 52"	12″	0.168″	12'		
72″	83" X 57"	12″	0.168″	12'	-	
		3″X 1″COI HELI	RRUGATION /	5″ X 1″ CORRUGATION HELICAL		
48″	53″ X 41″	12″/ -	0.079″/ -	12′ / -		
54″	60" X 46"	15″/ -	0.079″/ -	20′ / -		
60″	66" X 51"	15″ / -	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"	Ø.138″ / Ø.138″	16' / 16'		
114″	137" X 87"	24" / 24"	Ø.138″ / Ø.138″	16' / 16'		
120″	142" X 91"	27" / 27"	Ø.168″ / Ø.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.

MAXIMU over reinf	JM HEIGHT O Forced conc	F FILL Crete pipe
	MAXIMUM	COVER (ft)
	CLASS "C"	CLASS "B"
UF PIPE	BEDDING	BEDDING
III	12′	19′
ΙV	18′	30′
V	28′	48′
SPECIAL DESIGN	>28′	>48′

NOTE: CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

d = 1" FOR $\frac{1}{2}$ " DEEP CORRUGATION d = 2'' FOR 1'' DEEP CORRUGATION

GENERAL NOTES:

- 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 CONDUITS REQUIRING HEADWALLS.
- 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 THE SHOULDER LINES.
- 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 FINAL PLACEMENT.
- 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.

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

TABLE 1: BEDDING AND BACKFILL REQUIREMENTS

BEDDING AND BACKFILL REQUIREMENTS FOR NON-RIGID PIPE IN CROSS DRAIN AND STORM DRAIN APPLICATIONS

- A. BEDDING SHALL BE CLASS B IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- B. BACKFILL MATERIAL SHALL BE ONE OF THE FOLLOWING:
 - 1. FLOWABLE FILL IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
 - 2. CRUSHED STONE AGGREGATE BACKFILL IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

IF FLOWABLE FILL IS UTILIZED, CARE SHALL BE TAKEN TO PREVENT "FLOATING" OF THE PIPE.

THE COST OF FURNISHING AND PLACING THE REQUIRED BEDDING AND BACKFILL MATERIAL INDICATED IN A AND B SHALL BE INCLUDED IN THE UNIT COST OF THE NON-RIGID PIPE ALTERNATE, I.E., THERE IS NO SEPARATE PAY ITEM FOR NON-RIGID PIPE BEDDING AND BACKFILL MATERIAL.

BEDDING AND BACKFILL REQUIREMENTS FOR NON-RIGID PIPE IN SIDE DRAIN APPLICATIONS

- A. BEDDING SHALL BE CLASS C IN ACCORDANCE WITH THE MISSISSIPPI SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- B. BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE MISSISSIPPI SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. PIPES THAT SERVE AS A SIDE DRAIN ON DEPARTMENT RIGHT OF WAY, BUT CARRY DRAINAGE UNDER A COUNTY OR LOCAL ROAD SHALL ADHERE TO THE BEDDING AND BACKFILL REQUIREMENTS FOR A CROSS DRAIN CONTAINED ABOVE.

THE COST OF FURNISHING AND PLACING THE REQUIRED BEDDING AND BACKFILL MATERIAL INDICATED IN A AND B SHALL BE INCLUDED IN THE UNIT COST OF THE NON-RIGID ALTERNATE PIPE. I.E., THERE IS NO SEPARATE PAY ITEM FOR NON-RIGID BEDDING AND BACKFILL MATERIAL.

> TABLE 2: HIGH DENSITY CORRIGATED POLYETHYLENE PIPE HEIGHT OF COVER

> > 42

48

NOMINAL DIAMETER	MINIMUM COVER	MAXIMUM
IN.	IN.	CROSS DRAIN
12	12	38
15	12	36
18	12	35
24	12	3Ø
3Ø	12	25
36	21	29

21 21

TABLE 3: RECOMMENDED TRENCH WIDTH

DIAMETER IN.	O.D. IN.	TRENCH WIDTH IN.
12	14.45	34
15	17.57	38
18	21.20	44
24	27.8Ø	54
30	35.10	65
36	41.7Ø	75
42	47.7Ø	84
48	53.60	92

THE TRENCH WIDTH MUST BE WIDE ENOUGH TO ACCOMODATE COMPATION EQUIPMENT

TABLE 4:

27

25

DIAMETER OF PIPE IN.	CLEAR DISTANCE BETWEEN PIPES FTIN.
18	1'-2"
24	1'-5"
30	1'-8"
36	1'-11"
42	2'-2"
48	2'-5"

STANDARD INSTALLATION DETAIL





	-
POLYETHYLENE PIPES	
MULTIPLE INSTALLATION OF	



TRENCH CROSS SECTION SHOWING TERMIN

GENERAL NOTES:

- 1. MATERIALS
 - THERMOPLASTIC PIPE POLYETHYLENE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AA DESIGNATION OF TYPE: TYPE S: THIS PIPE WILL HAVE A FULL CORRUGATED PIPE WALL AND A
 - BEDDING MATERIAL AND STRUCTURAL BACKFILL BEDDING MATERIAL AND STRUCTURAL BACKFILL SHALL MEET THE RE
- 2. JOINTS JOINTS FOR THERMOPLASTIC PIPE SHALL MEET THE PERFORMANCE REQUI WATERTIGHTNESS IS SPECIFIED.
 - SUITABLE JOINTS CAN BE OBTAINED WITH THE FOLLOWING TYPES OF COM A) CORRUGATED BANDS (WITH OR WITHOUT GASKETS)
 - B) BELL AND SPIGOT PIPE ENDS (WITH OF WITHOUT GASKETS)
 - C) DOUBLE BELL COUPLINGS (WITH OR WITHOUT GASKETS)
- 3. INSTALLATION
 - MINIMUM TRENCH WIDTHS SHALL MEET THE REQUIREMENTS OF TABLE 3. THE MIDDLE THIRD OF THE BEDDING MATERIAL UNDER THE PIPE SHOULD REMAINDER SHALL BE COMPACTED TO A MINIMUM 90% OF MAXIMUM DEN A MINIMUM OF 4 INCHES OF BEDDING SHALL BE PROVIDED PRIOR TO PL STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NO THICKNESS AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE WITH ABOVE THE TOP OF THE PIPE. A MINIMUM COMPACTION LEVEL OF 90% SHALL BE ACHIEVED.

MINIMUM COVER REQUIREMENTS SHALL MEET THE REQUIREMENTS OF TAB FOR MULTIPLE INSTALLATIONS OF POLYETHYLENE PIPES, A CLEAR DISTA REQUIREMENTS OF TABLE 4.

4. CALCULATIONS FOR FILL DEPTHS ARE BASED ON PROPERTIES DEFINED IN AASHTO M294 AND CALCULATIONS IN AASHTO SEC. 19.

	STATE	PROJECT NO.
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BEDDING		
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SHTO M 294, LATEST EDITION.		
SIRCULAR CROSS SECTION WITH AN OUTER		
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ELEVATION OF CONCRETE COLLAR NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.





SECTION A-A

AL NOTES: THE MAXIMUM BEND ANCLE IS IS DEGREES. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYVENT UNLESS AUTOORIZED WODIFICATIONS ARE WADE: THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYVENT UNLESS AUTOORIZED WODIFICATIONS ARE WADE:	AL NOTES: THE MAXIMUM BEND ANGLE IS IS DEGREES. THE MAXIMUM BEND ANGLE IS IS DEGREES. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:	MISS. MISS. AL, NOTES; I.HE. MAXMUM E-NJ ANGLE IS 15 DEGRES; I.HE. MAXMUM E-NJ ANGLE IS 15 DEGRES; I.TEE TOLLOWING CALANTITIES SHALL SE THE BASIS FOR PAYMENT UNLESS AJTHORIZED MODIFICATIONS ARE MADE: OLANTITIES FOR CONCRETE COLLAR FOR PIPE CLASS 'N° COMME IS' 2,244 DIA. OF PIPE CLASS 'N° COMCRETS SIZE OF PIPE CONCRETE COLLAR FOR PIPE DIA. OF PIPE CLASS 'N° COMCRETS SIZE OF PIPE CONCRETE COLLAR FOR PIPE CALONS ARE MADE: 30° 3.616 30° 3.616 30° 3.616 30° 3.616 30° 3.616 30° 3.618 <	PROJE	STATE				
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42"Ø.73051 × 31Ø.69048"Ø.85058 × 36Ø.82054"Ø.98065 × 40Ø.92060"1.11073 × 451.07066"1.24888 × 541.36672"1.393	$42"$ 0.730 51×31 0.690 $48"$ 0.850 58×36 0.820 $54"$ 0.980 65×40 0.920 $60"$ 1.110 73×45 1.070 $66"$ 1.248 88×54 1.366 $72"$ 1.393 $$	42* 0.730 51 × 31 0.690 48* 0.850 58 × 36 0.820 54* 0.980 65 × 40 0.920 60* 1.110 73 × 45 1.070 66* 1.248 88 × 54 1.366 72* 1.393 0 0 66 0.920 0 0.920 60* 1.248 88 × 54 1.366 72* 1.393 0 0 66* 0.920 0 0 66* 0.248 88 × 54 0 72* 1.393 0 0 66* 0 0 0 66* 0 0 0 72* 1.393 0 0 66* 0 0 0 70* 0 0 0 70* 0 0 0 70* 0 0 0 70* 0 0 0 70* 0 0 0 70* 0		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23	0.240 0.260 0.320 0.410 0.510		15" 18" 24" 30"
48"Ø.85058 × 36Ø.82054"Ø.98065 × 40Ø.92060"1.11073 × 451.07066"1.24888 × 541.36672"1.393	$48"$ 0.850 58×36 0.820 $54"$ 0.980 65×40 0.920 $60"$ 1.110 73×45 1.070 $66"$ 1.248 88×54 1.366 $72"$ 1.393 $$	48" 0.850 58 × 36 0.820 54" 0.980 65 × 40 0.920 60" 1.110 73 × 45 1.070 66" 1.248 88 × 54 1.366 72" 1.393 0 0 Image: State of the state of		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27	0.240 0.260 0.320 0.410 0.510 0.620		15" 18" 24" 30" 36"
54" Ø.980 65 × 40 Ø.920 60" 1.110 73 × 45 1.070 66" 1.248 88 × 54 1.366 72" 1.393	54" Ø.98Ø 65 × 4Ø Ø.92Ø 60" 1.11Ø 73 × 45 1.07Ø 66" 1.248 88 × 54 1.366 72" 1.393	54" 0.980 65 × 40 0.920 60" 1.110 73 × 45 1.070 66" 1.248 88 × 54 1.366 72" 1.393		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.690	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31	0.240 0.260 0.320 0.410 0.510 0.620 0.730		15" 18" 24" 30" 36" 42"
60 1.110 7.5 x 45 1.070 66" 1.248 88 x 54 1.366 72" 1.393	60 1.110 7.5 x 45 1.010 66" 1.248 88 x 54 1.366 72" 1.393	66" 1.248 88 × 54 1.366 72" 1.393	I	CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.410 0.600 0.600 0.690 0.820	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850		15" 18" 24" 30" 36" 42" 48"
72″ 1.393	72″ 1.393	72" 1.393 1.393 Image: Mississippi department of transport readers of the second standard plan standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan Image: Mississippi department of transport readers of the second standard plan		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.410 0.600 0.690 0.690 0.820 0.920 1.070	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110		15" 18" 24" 30" 36" 42" 48" 54" 60"
		MISSISSIPPI DEPARTMENT OF TRANSPOF ROADWAY DESIGN DIVISION STANDARD PLAN CONCRETE PIPE COLLAR		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.690 0.820 0.920 1.070 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54	Ø.24Ø Ø.26Ø Ø.32Ø Ø.41Ø Ø.51Ø Ø.62Ø Ø.73Ø Ø.85Ø Ø.98Ø 1.11Ø 1.248		15" 18" 24" 30" 36" 42" 48" 54" 60" 66"
		MISSISSIPPI DEPARTMENT OF TRANSPOR ROADWAY DESIGN DIVISION STANDARD PLAN CONCRETE PIPE COLLAR WO		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.600 0.690 0.820 0.920 1.070 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
		MISSISSIPPI DEPARTMENT OF TRANSPOR ROADWAY DESIGN DIVISION STANDARD PLAN CONCRETE PIPE COLLAR WO S		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.690 0.820 0.920 1.070 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
		Image: Constraint of the second of the se		CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.690 0.820 0.920 1.070 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
MISSISSIPPI DEPARTMENT OF TRANSPORTA	MISSISSIPPI DEPARTMENT OF TRANSPORTA	CONCRETE PIPE COLLAR	ORTA	CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.690 0.820 0.920 1.070 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54 DEPARTMENT	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN	MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN	Image: Strain of the strain	ORTA	CLASS "B" CON((yd ³) 0.280 0.310 0.410 0.490 0.600 0.690 0.820 0.920 1.070 1.366 0.920 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54 73 × 45 88 × 54 9 × 54 88 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9 × 54 9	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN	MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN	WO WO S	ORTA	OF TRANSI GN DIVISION DIVISION DLAN	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 73 × 45 88 × 54 89 × 54 80 × 1 <t< td=""><td>0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI</td><td></td><td>15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"</td></t<>	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN CONCRETE PIPE COLLAR	MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN	S	ORTA	CLASS "B" CON((yd 3)) 0.280 0.310 0.410 0.490 0.600 0.690 0.820 0.920 1.070 1.366	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 54 0 × 45 0 × 45 0 <td>0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI MISSISSIPPI</td> <td>REVISION BY</td> <td>15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"</td>	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI MISSISSIPPI	REVISION BY	15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"
MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN CONCRETE PIPE COLLAR	MISSISSIPPI DEPARTMENT OF TRANSPORTA ROADWAY DESIGN DIVISION STANDARD PLAN CONCRETE PIPE COLLAR		ORTA WORKIN P	OF TRANSI GN DIVISION DIVISION DLAN	SIZE OF PIPE 18 × 11 22 × 13 29 × 18 36 × 23 44 × 27 51 × 31 58 × 36 65 × 40 73 × 45 88 × 54 73 × 45 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 54 88 × 1 <t< td=""><td>0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI MISSISSIPPI</td><td></td><td>15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"</td></t<>	0.240 0.260 0.320 0.410 0.510 0.620 0.730 0.850 0.980 1.110 1.248 1.393 MISSISSIPPI MISSISSIPPI		15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"





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	TABLE OF DIMENSIONS							
	D	Т	H:V	А	В	С	E	L
	15″	2 ¹ /4″	3:1	6″	2'-3"	4'-1"	2'-8″	6'-1"
	18″	21/2"	3:1	9″	2'-3"	3′-10″	3'-Ø"	6'-1"
	24″	3″	3:1	1Ø″	3′-8″	2'-6"	4'-Ø"	6′-2″
ſ	30″	31/2"	3:1	1'-Ø"	4'-6"	1'-8″	5′-Ø″	6'-2"
ſ	36″	4″	3:1	1'-3"	5′-3″	2'-11"	6'-Ø″	8'-2"
	42″	4 ¹ /2″	3:1	1'-9"	5′-3″	2'-11"	6′-6″	8'-2"
	48″	5″	3:1	2'-Ø"	6′-Ø″	2'-2"	7'-Ø"	8'-2"
ſ	54″	51/2″	3:1	2'-4"	6′-6″	1'-1Ø″	7′-6″	8'-4"
*	60″	6″	3:1	2'-10"	6′-6″	1'-1Ø″	8'-Ø"	8'-4"
*	66″	61/2"	3:1	3'-4"	6'-6"	1'-1Ø″	8'-6"	8'-4"
*	72″	7″	3:1	3'-10"	6'-6"	1'-1Ø″	9'-Ø"	8'-4"

STRUCTURAL CONCRETE - MINOR STRUCTURES.

STATE	PROJECT NO.
MISS.	

	TOE WALL Conc.quantity (yd ³)
Ī	0.056
	0.063
	0.083
	Ø.1Ø2
	Ø.123
	Ø . 134
	Ø . 145
	Ø . 156
	Ø.167
	Ø.177
	Ø.188

GENERAL NOTES:

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- 1. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
- 2. 2 $1\frac{1}{2}$ " DIA. CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2 - 1" DIA. TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
- 3. LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
- 4. FLARED END SECTIONS SHOULD BE REGARDED AS OBSTACLES UNDER THE BELOW CONDITIONS AND AS SUCH SHOULD BE LOCATED OUTSIDE OF THE CLEAR ZONE:
 - A. CROSS DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 36" OR EQUIVALENT FOR ARCH PIPES.
 - B. CROSS DRAINS WITH MULTIPLE ROUND PIPES OF DIAMETER
 - GREATER THAN 30" OR EQUIVALENT FOR ARCH PIPES. C. PARALLEL SIDE DRAINS WITH SINGLE ROUND PIPES OF
 - DIAMETER GREATER THAN 24" OR EQUIVALENT FOR ARCH PIPES.
- 5. ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

BY	MISSISSIPPI DEPARTMENT OF TRANSPO ROADWAY DESIGN DIVISION STANDARD PLAN	RTATION
REVISION	FLARED END SECTION FOR CONCRETE PIPE	MISSISSPI DEPARTMENT OF TRANSPORTATION ORKING NUMBER F E – 1
DATE	ISSUE DATE: AUGUST Ø1, 2017	sheet number 6530











					ESTIMATED QUANTITIES					
DIMENSIONS					CUL VI (L= 150	ERT 9 FT.)	PER LIN.	FT. BARREL	I AUX.	SLAB "J"
MAX. DVER	Τ	V	W	Y	CONC. cu. yd.	REINF. STEEL Ib.	CONC. cu. yd.	REINF. STEEL Ib.	CONC. cu. yd.	REINF. STEEL Ib.
14'	$7_2^{\prime \prime \prime}$	7"	1'-22"	18'-104"	101.85	14, 258	0. 5910	86. 8	0.35	21
10'	82"	72"	1'-32"	20' - 104 "	129.16	18, 948	0. 7631	117.3	0. 46	26
8'	92"	8"	1'-42'''	22'-104"	160.31	25, 194	0. 9609	158.1	0.56	32
7'	$10^{1''}_{2}$	82"	1'-52"	24'-104"	195.30	31, 113	1. 1844	196.9	0.66	38
7'	1'-0"	92 "	1'-7"	26'-104"	245. 12	39, 315	1. 5062	250. 3	0. 77	44
6'	/ ' - / "	10"	1'-8"	28'-104"	288. 88	45, 780	1. 7881	292.9	0.87	49
6'	1'-2"	112''	1'-9"	30'-104"	344.23	57, 285	2. 1471	368.7	0. 98	55
6'	1'-3"	1'-1"	1'-10"	32' - 104 "	403. 75	67,670	2. 5339	436.2	1.09	61

	Specifications A.A.S.H.O. 1969 Live Load
	Note: All working numbers referenced on this sheet are referencing the Box Culvert Standards issued in 1997.
ST OF TRANSB	MISSISSIPPI DEPARTMENT OF TRANSPORTATION BASIC CULVERT DRAWING SINGLE CELL HEIGHT 6 FT. SPANS 6-20 FT
Box Culvert Stds	WORKING NUMBER IBS-6-2W-97
13818814	Image: State of the sector


) F	FT.) PARAPETS & 2 AUXILIARY SLABS ""														
, , SPA "05	SPACERS "05" ~ * 4		TS OF "AST" 4 @	SE BARS	TS OF "ASB" *4@	SE BARS	TS OF 5 "BS" *4@	BAR.	5 "K" 4	BA	RS "L" *4	BA	RS "M" *4	BAR.	5 "N" *4
<i>NO</i> .	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.
4	5'-7"	6	152'-9"	6	155'-7"	24	152'-9"	12	4'-1"	4	6'-10"	4	6'-10"	16	2'-2"
4	5'-7"	8	152'-9"	8	155'-7"	24	152'-9"	16	4'-3"	4	8'-10"	4	8'-11"	20	2'-2"
4	5'-7"	10	152'-9"	10	155'-7"	28	152'-9"	20	4'-5"	4	10'-10"	4	11'-0"	24	2'-2"
4	5'-7"	12	152'-9"	12	155'-7"	28	152'-9"	24	4'-7"	4	12'-10"	4	13'-1"	28	2'-2"
4	5'-7"	14	152'-9"	14	155'-7"	32	152'-9"	28	4'-10"	4	14'-10"	4	15'-3"	32	2'-2"
4	5'-7"	16	152'-9"	16	155'-7"	32	152'-9"	32	5'-0"	4	16'-10"	4	17'-4"	36	2'-2"
4	5'-7"	18	152'-9"	18	155'-7"	36	152'-9"	36	5'-2"	4	18'-10"	4	19'-7"	40	2'-2"
4	5'-7"	20	152'-9"	20	155'-7"	36	152'-9"	40	5'-4"	4	20'-10"	4	21'-10"	44	2'-2"

@ NOTE: The Number And Length Of Bars Are Listed For Sets Of Bars Composed Of Sections As Shown In Bar Bending Details See Elevation Of Culvert For Number Of Sections.











BAR LISTS FOR WINGS & APRONS												
BAR	SIZE			Λ	IO. REO SPAN	UIRED				DIM.	DIM.	LENGTH
		6'	8'	10'	12'	14'	16'	18'	20'	x	XI	
ΤΙ	#4	2	2	2	2	2	2	2	2			5+1'-0"
72	#4	2	2	2	2	2	2	2	2			5+1'-7"
73	#4	2	2	2	2	2	2	2	2			5+2'-9"
Τ4	#4	2	2	2	2	2	2	2	2			5+3'-11"
75	#4	2	2	2	2	2	2	2	2			5+5'-1"
<i>T6</i>	#4	2	2	2	2	2	2	2	2			5+6'-3"
77	#4	2	2	2	2	2	2	2	2			5+7'-5"
<i>T8</i>	#4	2	2	2	2	2	2	2	2			5+8'-7"
<i>T9</i>	#4	2	2	2	2	2	2	2	2			5+9'-9"
ΤΙΟ	#4	2	2	2	2	2	2	2	2			5+10'-11"
<i>T</i> //	#4	2	2	2	2	2	2	2	2			5+12'-1"
T12	#4	6	6	6	6	6	6	6	6			5+13'-3"
U	#4	12	12	12	12	12	12	12	12			12'-5"
V1	#4	16	20	24	28	32	36	40	44	11'-0"	1'-8"	12'-8"
V2	#4	4	4	4	4	4	4	4	4	9'-1"	1'-8"	10'-9"
V3	#4	4	4	4	4	4	4	4	4	7'-4"	1'-8"	9'-0"
V4	#4	4	4	4	4	4	4	4	4	5'-7"	1'-8"	7'-3"
V5	#4	4	4	4	4	4	4	4	4	3'-10"	1'-8"	5'-6"
V6	#4	4	4	4	4	4	4	4	4	2'-1"	1'-8"	3'-9"
W1	#4	12	12	12	12	12	12	12	12	4'-0"	W+5'-2"	W+9'-2"
W2	#4	8	8	8	8	8	8	8	8	3'-8"	W+4'-7"	W+8'-3"
W3	#4	8	8	8	8	8	8	8	8	3'-4"	W+3'-11"	W+7'-3"
W4	#4	8	8	8	8	8	8	8	8	3'-0"	W+3'-0"	W+6'-0"
W5	#4	8	8	8	8	8	8	8	8	2'-8"	W+2'-2"	W+4'-10"
W6	#4	8	8	8	8	8	8	8	8	2'-4"	W+1'-4"	W+3'-8"
W7	#4	8	8	8	8	8	8	8	8	2'-0"	W+6"	W+2'-6"
Y1	#4	4	4	4	4	4	4	4	4			2'-11"
Y2	#4	4	4	4	4	4	4	4	4			5'-3"
Y3	#4	4	4	4	4	4	4	4	4			7'-7"
Y4	#4	4	4	4	4	4	4	4	4			9'-10"
Y5	#4	4	4	4	4	4	4	4	4			12'-2"
Y6	#4	4	4	4	4	4	4	4	4			12'-5"



GENERAL NOTES: Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 1990. All Concrete Shall Be Class "B". Concrete Surfaces Shall Be Finished In Accordance With Sub-Section 804.03.19. Expansion Joint Material Shall Be Bituminous Fiber Type Unless Otherwise Noted. All Expanded Corpore Shall Be Chamfored ³" All Exposed Corners Shall Be Chamfered 3". All Exposed Corners Shall Be Chamfered 3". Reinforcing Steel Shall Be Placed I" Clear Minimum From The Surface Of The Concrete And Shall Be Adequately Supported From The Forms. All Bars Shall Be Accurately Spaced And Securely Wired At Each Intersection Before Placing Concrete. Horizontal Construction Joints Shall Be Placed Only At The Locations Shown, And The Concrete Shall Be Allowed To Set A Minimum Period Of Two Hours Before Continuing The Pour. The Quantities Shown Will Be Used As A Basis For Final Payment Unless This Drawing Is Modified. MISSISSIPPI DEPARTMENT OF TRANSPORTATION BASIC CULVERT DRAWING SINGLE CELL HEIGHT 6 FT. SPANS 6-20 FT. WORKING NUMBER IBS-6-2W-97 SHEET NUMBER DESIGNED <u>NA</u> CHECKED BJJ ISSUED TMT 75Ø8

DATE <u>07-11-97</u> DATE <u>08-01-97</u>

DETAILED <u>AL</u>T



								CUL VERT L	MENSIONS	5															
CUL VERT	"ر "	"LW"	' "NI	" "A	V2" ".	<i>R</i> "	"Z"					"Y"													
HEIGHT ""								6' 7'	<i>R' Q'</i>	10'	CLEAK	R SPAN	16'	18'	20'	22'	21	/							
<i>10</i> ′	8'-4"	26'-74	!" 2'-1	1" 6'-6	6" 14	3" 25	5'-316"			28'-319"	30'-3 ₁₆ "	32'-316" 32	1'-3 ₁₆ " 30	6'-3 ⁹ "	<u>20</u> 38'-3 ₁₆ ''	" 40'-3 ₁₆ "	// Z4								
12'	9'-7"	30'-78	'" 3'-3	" 7'-0	$\mathcal{I}'' = I_{\ell}$	15 " 29	$9' - O_4^{3''}$				33'-0 ₁₆ "	$35' - O_{16}^{7''} 3$	$7' - O_{16}^{7''} 3$	9'-016"	41'-0 ₁₆ "	' 43'-0 ₁₆ '	" 45'-0	77'' 16							
												ESTIMA	TED C	OUAN .	TITIES	S~CUL I	VERT	[L=150 Fi	<i></i>						
													CLEA	R SPAN	V										
CI II VERT		6'			7'			8'	9'		10'		12'		14	1'		16'	18'		20'	22	>'	24	4'
HEIGHT	CON	NC. A	REINF.	CONC.	RE	INF.	CONC.	REINF. CON	C. REINF.	CONC.	REINF.	CONC.	REIN	IF. Co	ONC.	REINF.	<i>COI</i>	VC. REINF.	CONC. REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.
"H"	CU.	γd. 31	EEL IB.	си. үс	d. 31E	<i>EL 16.</i>	си. үб.	31EEL 16. cu. y	rd. 37EEL 16.	<i>cu.</i> γ <i>d.</i>	SIEEL	b. cu. γd.	3/EEL	1 b. cu		SIEEL I	b. cu.	γd. 31EEL 1b.	cu. yd. 37EEL 16		STEEL IB	. <i>cu. yd.</i> 3		cu. yd.	STEEL Ib.
10										254.22	33,867	200.33	38.82	$\frac{23}{12}$ $\frac{32}{37}$	6.12 8.50	<i>41,936</i> 55,883	378.	95 58,215 53 61 540	435.83 69,729 479.61 72.629	502.54	82,504	62136	97,852	706.08	110081
12]		0.02				<i></i>	420.			342.03	02,007	027.00	,045	/00.00	110,004
			/	HEIGH	/7 =	12 F	7.						/	HEIGH	/7 =	10 Fi	Γ.								
			BAR L	<u>IS T S</u>	FOR	WINC	GS 8 .	APRONS				B	AR LIS	STS I	FOR V	NINGS	8 A	PRONS							
RAD SITE			NO.	REOUI	RED					RAD S			NC	D. REOL	IIRED										
DAR JIZL	12'	14'	16'	SPAN 18'	20'	22'	24'	X XI	LLIVOTA		120	n' 12'	14'	SPAN 16'	' 18'	20'	22'	$\begin{array}{c c} & & \\ & &$							
<i>T1 #4</i>	2	2	2	2	2	2	2		S+1'-6"	7/ +	#4 2	2	2	2	2	2	2		5+1'-2"						
12 #4 73 #1	2 2	2	2	2	2	2	2		<u>5+2'-3"</u> 5+3'-0"	$\begin{array}{c c} \hline 72 \\ \hline 7.3 \\ \hline \end{array}$	* <u>4 2</u> * ₄ 2	2	2	2	2	2	2		<u>5+/'-8"</u> 5+2'-5"						
<i>T4 #</i> 4	2	2	2	2	2	2	2		5+3'-9"	<i>T4</i>	#4 2	2	2	- 2	- 2	2	2		5+3'-2"						
75 #4 76 #1	2	2	2	2	2	2	2		<u>S+4'-6"</u> S+5'-2"	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\frac{\#}{4}$ 2	2	2	2	2	2	2		S+3'-11" S_1'0"						
70 4 77 [#] 4	2	2	2	2	2	2	2		5+6'-0"	77 7	4 2 #4 2	2	2	2	2	2	2		<u>5+5'-5"</u>						
<i>T8</i> #4	2	2	2	2	2	2	2		5+6'-9"	<i>T8</i>	# <u>4</u> 2	2	2	2	2	2	2		5+6'-2"						
79 "4 T10 #4	2	2	2	2	2	2	2		<u> </u>	$\frac{79}{710}$	* <u>4 2</u> * <u>4</u> 2	2	2	2	2	2	2		5+7'-8"						
T// #4	2	2	2	2	2	2	2		5+9'-0"	7// *	#4 2	2	2	2	2	2	2		5+8'-5"						
$\frac{7/2}{7/3} \frac{\#}{4}$	2	2	2	2	2	$\frac{2}{2}$	2		<u> </u>	$\frac{T/2}{T/3}$	$\begin{array}{c c} \#_4 & 2 \\ \hline \#_4 & 2 \end{array}$	2	2	2	2	2	2		<u>5+9'-2"</u> 5+9'-9"						
714 [#] 4	2	2	2	2	2	2	2		5+11'-3"	T14	# <u>4</u> 2	2	2	2	2	2	2		5+10'-6"						
7/5 #4	2	2	2	2	2	2	2		<u>S+12'-0"</u>	715	# <u>4</u> 2 #12	2	2	2	2	2	2		<u>S+11'-3"</u>						
776 4 777 #4	2	2	2	2	2	2	2		5+13'-6"	$\frac{776}{717}$	* <u>4</u> 2 *4 2	2	2	2	2	2	2		5+12'-9"						
<i>T18 #4</i>	2	2	2	2	2	2	2		5+14'-3"	718	#4 2 #1 0	2	2	2	2	2	2		5+13'-6"						
779 #4 720 #4	2	2	2	2	2	$\frac{2}{2}$	2		<u>S+15'-0"</u> S+15'-9"	<i>T20 =</i>	* <u>4 2</u> * <u>4</u> 2	2	2	2	2	2	2		<u>S+14-3</u> S+15'-0"						
721 #4	2	2	2	2	2	2	2		5+16'-6"	721 *	#4 2	2	2	2	2	2	2		5+15'-9"						
T22 #4 T23 #1	2	2	2	2	2	2	2		<u>S+17'-2"</u> S+17'-11'	722^{\dagger}	# <u>4 2</u> # <u>4</u> 2	2	2	2	2	2	2		<u>S+16'-6"</u> <u>S+17'-3"</u>						
T24 #4	2	2	2	2	2	2	2		5+18'-8"	723	#4 2	2	2	2	2	2	2		<i>S+17'-11"</i>						
T25 #4 T26 #1	2	2	2	2	2	2	2		<u> </u>	725 †	# <u>4 2</u> # _{1 2}	2	2	2	2	2	2		<i>S+18'-7"</i> <i>S+18'-10"</i>						
720 4 727 #4	2	2	2	2	2	2	2		5+20'-11'	$\frac{120}{1}$	#4 12	2 2 12	12	12	12	12	12		26'-3"						
<i>T28 #4</i>	2	2	2	2	2	2	2		<u>S+21'-8"</u>		#4 22 # 1 1	<u>4 28</u>	32	36	40	44	48	24'-11" 1'-0	8" 26'-7"						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 12	12	12	12	12	12	12		30'-3"	V2 V3 [†]	<i>4 4</i> <i>#4 4</i>	4	4	4	4	4	4	19'-10" 1'-0	8" 21'-6"						
V1 #4	28	32	36	40	44	48	52	28'-8" 1'-8	30'-4"		#4 4 # 1 1	4	4	4	4	4	4	17'-1" 1'-c	8" 18'-9"						
V2 "4 V3 #4	4	4	4	4	4	4	4	20-1 1-0	<u> </u>	V5	$\frac{4}{4}$	4	4	4	4	4	4	<u> 4-4</u> -c	<u>8 16-0</u> 8" 13'-3"						
V4 #4	4	4	4	4	4	4	4	21'-1" 1'-8	22'-9"		#4 4 #	4	4	4	4	4	4	8'-10" 1'-0	8" 10'-6"						
$\begin{array}{c c} V5 & \#4 \\ \hline V6 & \#4 \end{array}$	4	4	4	4	4	4	4	18'-4" 1'-8 15'-7" 1'-8	<u> </u>	$- \frac{V8}{V.9}$	' <u>4</u> 4 #44	4	4	4	4	4	4	6-1" 1'-0 3'-4" 1'-0	<u>8" /-9'</u> 8" 5'-0"						
V7 #4	4	4	4	4	4	4	4	12'-10" 1'-8	14'-6"		#6 20	2 20	20	20	20	20	20	5'-10" W+8	<u>'-1" W+13'-11"</u>						
V8 #4 V9 #1	4 	4 1	4 1	4	4 1	4	4 1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	· //-9"	W2	#6 20 #5 21	$\frac{1}{20}$	20 20	20 20	20 20	20	20 20	5'-5" W+7	<u>'-2" W+12'-7"</u>						
VIO #4	4	4	4	4	4	4	4	4'-7" 1'-8	<u> </u>	W4	#5 12	20	12	12	12	12	12	4'-8" W+5	'-7" W+10'-3"						
$\frac{W}{10} = \frac{\#}{7}$	20	20	20	20	20	20	20	6'-5" W+9'-	6" W+15'-11	" W5 1/16	# <u>5 2</u> #_1 12	2 12	12	12	12	12	12	4'-5" W+4'-	-11'' W+9'-4''						
<u>vv</u> 2 / W3 #7	12	12	12	12	12	12	12	<u>5'-8" W+7'-</u>	<u>8"</u> W+13'-4"	W7	4 12 #4 12	<u> </u>	12	12	12	12	12	<u>4-2</u> W+4 3'-10" W+3	-1 VV+0-3 <u>'-5" W+7'-3"</u>		\frown	\frown	\frown	\frown	\sim
W4 #7	12	12	12	12	12	12	12	5'-4" W+6'	0" W+12'-2"	W8	#4 12	12	12	12	12	12	12	3'-5" W+2	'-7" W+6'-0"		$\gamma \gamma$	$\langle \gamma \gamma \rangle$	γ	$\langle \rangle$	Y)
W5 "6 W6 #6	12 12	12 12	12 12	12 12	12	12	12	5-0' W+6'- 4'-8" W+5'-	<u>) W+11'-0''</u> 2'' W+9'-10''	W10	<u>*4 2</u> #4 8	, <u>12</u> 8	12 8	12 8	<u>12</u> 8	12 8	<u>12</u> 8	<u>3-2</u> W+2 2'-11" W+1	$\frac{-0}{-4''} \frac{W+5'-2''}{W+4'-3''}$		Note: All	working num	bers refere	enced	/
W7 #5	12	12	12		12	12	12	4'-3" W+4'-	2" W+8'-5"		 #4 8 #	8	8	8	8	8	8	2'-8" W+0	8" W+3'-4"	\sim	on Box	Culvert St	andards is	sued in 1	1997. <
W8 #5 W9 #1	12	12	12	12	12	12	12	3'-11" W+3'- 3'-7" M+2'-	<u>3" W+7'-2"</u> 3" 11/+5'-10"	Y1 7	# <u>4 8</u> # _{4 0}	8	8	8 2	8 2	8	8 2		5'-4"	$\overline{\ }$	λ λ	λ λ	λ λ	, λ	
W10 #4	12	12	8	12	8	8	8	3'-4" W+1'-	7" W+4'-11"	Y3	, 0 #4 8	8	8	8	8	8	8		13'-4"						
W / / # 4	8	8	8	8	8	8	8	3'-1'' $W+1'-$	0" W+4'-1"	Y4	#4 8 #1 ~	8	8	8	8	8	8		17'-4"						
<u>vv12</u> <u>4</u> <u>71</u> <u>#4</u>	4	4	8	4	4	4	4	<u> </u>	<u> </u>	Y6	4 8 #4 8	<u>8</u>	8	8	<u>8</u>	8	<u> </u>		25'-4"						T OF TRA
Y2 #4	8	8	8	8	8	8	8		9'-8"	Y7 :	#4 16	16	16	16	16	16	16		26'-3"					/	1997
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 8	8 8	8	8	8	8	8		<u> </u>	-															Y Box Culveri
Y5 #4	8	8	8	8	8	8	8		21'-8"																Stds .
Y6 #4 Y7 #1	8 8	8	8	8	8	8	8		<u>25'-8"</u> 29'-8"	-															ISSISSIP
<u> </u>	24	24	24	24	24	24	24		.30'3"	-															



ADDITIONAL BAR LIST FOR WINGS & APRONS										
BAR	SIZE	Н	= 10 FT.	Н	= 12 FT.					
	0.22	NO.	LENGTH	NO.	LENGTH					
F	#4	8	27'-6"	8	31'-8"					
0	#5	72	3'-0"	88	3'-0"					
Q5	#4	4	9'-7"	4	11'-7"					
R1	#4	8	W+7'-1"	8	W+8'-4"					
R2	#4	8	W+6'-2"	8	W+7'-5"					
R3	#4	12	W+4'-9"	12	W+6'-0"					
R4	#4	12	W+3'-4"	12	W+4'-7"					
R5	#4	12	W+1'-11"	12	W+3'-2"					
R6	#4	12	W+6"	12	W+1'-9"					
R7	#4			12	W+4"					

	ESTIMATED QUANTITIES~CULVERT (L=150 FT.)																							
	CLEAR SPAN																							
		6'		7'		8'		9'		10'		12'	/	'4'	4	16'	/	8'	20	/	22	1	24	/
HEIGHT	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.
"H"	cu. yd.	STEEL Ib.	cu. yd.	STEEL Ib.	cu. yd.	STEEL Ib.	cu. yd.	STEEL Ib.	cu. yd.	STEEL 16.	cu. yd.	STEEL Ib.												
6'	107.46	14,893			135.35	19,617			167.07	25,896	202.64	31,851	253.05	40,088	297.38	46,586	353.30	58,125	413.39	68,544				
8'					174.41	26,894			203.83	30,286	241.63	35,276	295.28	42,787	346.61	52,747	401.98	62,531	461.34	73,117				

	CULVERT DIMENSIONS																	
CUI VERT	יין יי	"LW"	"NI "	"N2"	"R"	"Z"							"Y"					
HEIGHT								CLEAR SPAN										
"H"							6'	7'	8'	9'	10'	12'	14'	16'	18'	20'	22'	24'
6'	5'-9"	18'-415"			14"	17'-58"	18'-72"		20'-72"		22'-72''	24'-72'"	26'-72'"	28'-72'"	30'-72''	32'-72"		
8'	7'-4"	23'-415"			12"	22'-215"	,		24'-1,3"		26'-1,3"	28'-1'3"	30'-1,3"	32'-1,3"	34'-1,3"	36'-1'3"		

	🛆 HEIGHT = 8 FT.																\land HE	TIGH T	= 6	FT.				
			B,	AR LI	575 /	FOR V	VINGS	8 A	PRONS							BAR	LISTS	FOR	WINC	GS &	APRC	NS		
BAR	SIZE			N	D. REOL	IIRED				DIM	IENGTH	BAR	SIZE				NO. REC	DUIRED					DIM	IENGTH
		8'	10'	12'	14'	16'	18'	20'	X	XI			5122	6'	8'	10'	12'	/V 4'	16'	18'	20'	X	XI	22/10///
<i>T1</i>	#4	2	2	2	2	2	2	2			S+10"	71	#4	2	2	2	2	2	2	2	2			5+8″
72	#4	2	2	2	2	2	2	2			5+1'-5"	72	#4	2	2	2	2	2	2	2	2			5+1'-5"
<i>T3</i>	#4	2	2	2	2	2	2	2			5+2'-2"	73	#4	2	2	2	2	2	2	2	2			5+2'-2"
Τ4	#4	2	2	2	2	2	2	2			5+2'-11"	Τ4	#4	2	2	2	2	2	2	2	2			5+2'-11"
75	#4	2	2	2	2	2	2	2			5+3'-8"	75	#4	2	2	2	2	2	2	2	2			5+3'-8"
16	#4	2	2	2	2	2	2	2			5+4'-5"		#4	2	2	2	2	2	2	2	2			5+4'-5"
// TQ	"4 # 1	2	2	2		2	2				5+5-2	$\frac{1}{\tau \varrho}$	"4 # 1	2	2			2	2	2	2			5+5-2
70 TQ	4 # 1	2	2	2	2	2	2	2			5+5-77	<i>10</i> <i>TQ</i>	4 # 1	2	2	2	2	2	2	2	2			5+5'-77
TIO		2	2	2	2	2	2	2			5+7'-A''	TIC) #_/	2	2	2	2	2	2	2	2			5+7'-5''
<i>T</i> //	#4	2	2	2	2	2	2	2			5+8'-1"	T/	' #	2	2	2	2	2	2	2	2			5+8'-2"
T12	#4	2	2	2	2	2	2	2			5+8'-10"	T12	» # ₄	2	2	2	2	2	2	2	2			5+8'-11"
<i>T13</i>	#4	2	2	2	2	2	2	2			5+9'-7"	713	#4	2	2	2	2	2	2	2	2			5+9'-7"
T14	#4	2	2	2	2	2	2	2			S+10'-4"	T14	* #4	2	2	2	2	2	2	2	2			5+10'-4"
<i>T15</i>	#4	2	2	2	2	2	2	2			5+11'-1"	<u> </u>	#4	2	2	2	2	2	2	2	2			5+11'-1"
<i>T16</i>	#4	2	2	2	2	2	2	2			5+11'-10"	<u> </u>	#4	2	2	2	2	2	2	2	2			<i>S+11'-10"</i>
717	#4	2	2	2	2	2	2	2			5+12'-7"	<u> </u>	* #4	2	2	2	2	2	2	2	2			5+12'-7"
718	#4	2	2	2	2	2	2	2			5+13'-4"	<i>T18</i>	° #4	6	6	6	6	6	6	6	6			5+13'-0"
//9	#4	2	2	2	2	2	2	2			5+14-1"		#4	12	12	12	12	12	12	12	12			18'-0"
120	#4	2	2	2	2	2	2	2			5+14-10		#4	16	20	24	28	32	36	40	44	//-/	/ -8	18-9
121	"4 # 1	2	2	2	2	2	2	2			5+15-1		<i>"4</i> #7	4	4	4	4	4	4	4	4	11'-1"	/ -8	13'-0"
122 T23	4 #_/	6	6	6	6	6	6	6			5+16'-6"		4 #1	4	4	4	4	4	4	4	4	<i>8'-7"</i>	1'-8"	10'-3"
125	#	12	12	12	12	12	12	12			23'-0"	1/5	#1	4	4	4	4	4	4	4	4	5'-10"	1'-8"	7'-6"
VI	<i>∓</i> ∠	20	24	28	32	36	40	44	21'-11"	1'-8"	23'-7"	V6	<i><i>¬</i> <i>#</i>⊿</i>	4	4	4	4	4	4	4	4	3'-1"	1'-8"	4'-9"
V2	#4	4	4	4	4	4	4	4	19'-2"	1'-8"	20'-10"	W/	#4	20	20	20	20	20	20	20	20	4'-0"	W+5'-4"	W+9'-4"
V3	#4	4	4	4	4	4	4	4	16'-5"	1'-8"	18'-1"	W2	» #4	12	12	12	12	12	12	12	12	3'-8"	W+4'-9"	W+8'-5"
V4	#4	4	4	4	4	4	4	4	13'-8"	1'-8"	15'-4"	W3	* #4	12	12	12	12	12	12	12	12	3'-5"	W+4'-0"	W+7'-5"
V5	#4	4	4	4	4	4	4	4	10'-11"	1'-8"	12'-7"	W4	" #4	12	12	12	12	12	12	12	12	3'-0"	W+3'-2"	W+6'-2"
V6	#4	4	4	4	4	4	4	4	8'-2"	1'-8"	9'-10"	W5	#4	12	12	12	12	12	12	12	12	2'-8"	W+2'-3"	W+4'-11"
V7	#4	4	4	4	4	4	4	4	5'-5"	1'-8"	7'-1"	W6	#4	12	12	12	12	12	12	12	12	2'-4"	W+1'-4"	W+3'-8"
W1	#5	24	24	24	24	24	24	24	4'-6"	W+6'-9''	W + 11 - 3''		#4	12	12	12	12	12	12	12	12	2'-0"	W+5"	W+2'-5"
W2	#5 #c	20	20	20	20	20	20	20	4 - 1	W+5 - 7	$W+9^{\circ}-8^{\circ}$	<u> </u>	#4	4	4	4	4	4	4	4	4			4'-10"
11/1	" <u>5</u> # 1	12	12	12	12	12	12	12	3 = /	VV + 4 - 7 $II/_+ 3' 7''$	W+8-2	<u>72</u>	# <u>/</u>	4	4	4	4	4	4	4	4			8-1
W4 W5	4 #_/	12	12	12	12	12	12	12	2' - 11''	1/1+2'-7''	W+6-10 M+5'-6"	/3 ×1	4 # 1	4	4	4	4	4	4	4	4			17 - 3
W6	<i>4</i> <i>#</i> ⊿	12	12	12	12	12	12	12	2'-7"	W+1'-7"	$W_{+}\Delta'_{-}2''$	- 14 - 75	#	4	4	4	4	4 2	4 		4 2			17'-7"
W7	#4	8	8	8	8	8	8	8	2'-3"	W+1'-0"	W+3'-3"	75 76	#4	4	4	4	4	4	4	4	4			18'-0"
W8	#4	8	8	8	8	8	8	8	2'-0"	W+5"	W+2'-5"		/											700
Y1	#4	8	8	8	8	8	8	8			4'-10"													
Y2	#4	8	8	8	8	8	8	8			8'-0"													
Y3	#4	8	8	8	8	8	8	8			11'-2"													
Y4	#4	8	8	8	8	8	8	8			14'-4"													
<u>Y5</u>	#4	8	8	8	8	8	8	8			17'-6"													$\bigvee \bigvee \bigvee$
<u>Y6</u>	#4	8	8	8	8	8	8	8			20'-8"	-										/	Λ/- + -	ı İ
X7	#4	16	16	16	16	16	16	16			23'-0"											(1016*	All working



8 Feet.

GENERAL NOTES:

This Drawing Shows The General Details Necessary To Modify A Single Cell Culvert For Wings With 3:1 Slope. All Governing Dimensions, Reinforcing Details And General Requirements Of Basic Culvert Drawing Shall Apply Except As Specifically Modified By This Drawing And Or Drawing IBSM-3W. Barrel Details On Basic Culvert Drawing Shall Be Used With Cover From 2'-6" To The Maximum Shown On Basic Culvert Drawing. With Cover Less Than 2'-6" And More Than Maximum Shown On Basic Culvert Drawing, Use Drawing IBSM-3W For Barrel Details. Quantities Shown On This Sheet Are For Culverts With Basic Culvert Barrels And Wings With 3:1 Slope Per This Drawing. Quantities Shown On Drawing IBSM-3W Are For Culverts With Barrels Per Drawing IBSM-3W And Wings With 3:1 Slope Per This Drawing And Drawing IBSM-3W. Quantities Not Shown On This Sheet And Or Drawing IBSM-3W Are Same As Shown On Basic Culvert Drawing. Quantities Shown On This Sheet Are For Complete Culvert Of The Length Noted And Include Barrel, Parapets, Wings, Aprons, Cut-Off Walls, Auxiliary Slabs "W" Where Required And Two Auxiliary Slabs "J". Quantities Shown On This Sheet Will Be Used As A Basis For Final Payment For Culverts Constructed In Accordance With This Drawing And Basic Culvert Drawing.

* All working numbers referenced on this sheet are referencing the Box Culvert Standards issued in 1997.

ADDITIONAL BAR LIST FOR WINGS & APRONS											
BAR	SIZE	H	1 = 6 FT.	Н	= 8 FT.						
UAA	5122	NO.	LENGTH	NO.	LENGTH						
F	#4	8	18'-10"	8	24'-2"						
Q	#5	28	3'-0"	72	3'-0"						
Q5	#4	4	5'-7"	4	7'-7"						
RI	#4			8	W+6'-1"						
R2	#4			12	W+4'-8"						
R3	#4			12	W+3'-3"						
R4	#4			12	W+1'-10"						
R5	#4			12	W+5"						

Wings & Aprons Per This Drawing And Or Drawing IBSM-3W. Barrel Per Basic Drawing And Or Drawing IBSM-3W.

SIDE ELEVATION OF CULVERT See Drawing No. IBJL-1 For Joint Locations

Auxiliary Slabs "W" And Vertical Construction Joints At The Wings Are Required Only Where Called For By The Basic Drawing And Auxiliary Slabs "W" Are Not To Be Used For Culvert Heights Of Less Than

	BJJ BY	MISSISSIPP	I DEPARTMEN	NT OF TRAN	ISPORTATION
		WI	NGS WITH Foi	3:1 SLO R	PE
	sions.	BAS	SIC CULVE	RT DRAW	ING
	imens		SINGLE	CELL	
ST 1007	CHT D REVI	ŀ	HEIGHTS 6	5-12 FT.	
Box Box	d HEI		SPANS 6	6-24 FT.	
Culvert Stds	Revise				WORKING NUMBER
ssissipr	7-99	DESIGNED <u>NA</u>	CHECKED	ISSUED	SHEET NUMBER
	DP	DETAILED	DATE <u>07-11-97</u>	DATE <u>08-01-97</u>	(51)
	\triangleleft				

DESCRIPTION OF SHEETS	NO. NUN
DETAILED INDEX (BRIDGE)	DI-L
SUMMARY OF QUANTITIES (BRIDGE)	50-
BRIDGE "A" AT STA. 1506+58.88	
SR 35 OVER BOKSHENYA NOTES, QUANTITIES, LAYOUT	A 1
SR 35 OVER BOKSHENYA FOUNDATION PLAN	A2
END BENTS NO. 1 & 4	A3
END BENT DETAILS	A4
INT. BENTS 2 8 3	A5
PLAN OF IOO FT SPANS	A6
100 FT SPAN DETAILS	A 7
MISCELLANEOUS SPAN DETAILS	A8
100 FT. BEAM DETAILS BEAM NO. 100-1 (BT-54)	A9
100 FT. BEAM DETAILS BEAM NO. 100-2 (BT-54)	AIC
BRIDGE "B" AT STA. 1583+71.88	
SR 35 OVER LITTLE CONEHOMA NOTES, QUANTITIES & LAYOUT	BI
SR 35 OVER LITTLE CONEHOMA FOUNDATION PLAN	B2
END BENT NO. I	B3
END BENT NO. 4	B4
END BENT DETAILS	B5
INT. BENT NO. 2	<i>B6</i>
INT. BENT NO. 3	B7
PLAN OF 80 FT SPANS	B8
80 FT SPAN DETAILS	<i>B9</i>
PLAN OF 115 FT SPAN	BIC
115 FT SPAN DETAILS	BII
MISCELLANEOUS SPAN DETAILS	BIZ
80 FT BEAM DETAILS BEAM NO. 80-1 (TYPE III)	BIG
115 FT BEAM DETAILS BEAM NO. 115-1 (BT-54)	B14
GENERALIZED SOIL PROFILE BRIDGE NO. 150.5 OVER BOKSHENYA CREEK	GSF
GENERALIZED SOIL PROFILE BRIDGE NO. 152.0 OVER LITTLE CONEHOMA CREEK	GSF
DETOUR BRIDGE AT STA. 7+73 MS 35 ACROSS BOKSHENYA CREEK	DBA
DETOUR BRIDGE AT STA. 8+05 MS 35 ACROSS LITTLE CONEHOMA CREEK	DBB
2'-8" RAILING DETAILS	RD-
EROSION CONTROL PLANS - BRIDGE A - 150.5	ECE
EROSION CONTROL PLANS - BRIDGE B - 152.0	ECB

ORKING MARER	SHEET NII IN ARE D
-BR-1	8007
2-BR-1	8002
I OF AIO	8003
? OF A10	8004
3 OF AIO	8005
4 OF AIO	8006
5 OF AIO	8007
5 OF A10	8008
7 OF A10	8009
8 OF A10	8010
9 OF A10	8011
10 OF A10	8012
0F B14	8013
? OF B14	8014
3 OF B14	8015
4 OF B14	8016
5 OF B14	8017
6 OF B14	8018
7 OF B14	8019
3 OF B14	8020
9 OF B14	8021
'O OF B14	8022
' I OF B14	8023
12 OF B14	8024
13 OF B14	8025
14 OF B14	8026
SP-A	8027
5P-B	8028
3A - 1	8029
38-1	8030
7-32	8031
CBR-A I	8032
CBR-B1	8033

	BRIDGE DIVISION							
REVISIONS								
DATE	SHEET NO.	ΒY						

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STATE PROJECT NO.

MISS. **BR-0023-02(058)**

	SUMMARY OF QUANTITIES			
PAY ITEM NO.	PAY ITEM	UNIT	QUANTITIES	
	Bridge Summary		PRELIMINARY	FINAL
501-K001	Transverse Grooving	SY	2,555	
907-803-B001	Conventional Static Pile Load Test	EA	2	
803-D005	HP 14 x 117 Steel Piling	LF	7,335	
907-803-1003	PDA Test Pile, HP Steel Pile	EA	4	
907-803-J001	Pile Restrike	EA	4	
907-804-A002	Bridge Concrete, Class AA	CY	265	
907-804-A004	Bridge Concrete, Class BD	CY	769	
804-C032	115' Prestressed Concrete Beam, Type BT-63	LF	803	
804-C121	80' Prestressed Concrete Beam, Type III	LF	954	
804-C165	100' Prestressed Concrete Beam, Type BT-54	LF	1,789	
805-A001	Reinforcement	LBS	222,890	
813-A002	Concrete Railing, 32"	LF	1,158	
815-A007	Loose Riprap, Size 300	TON	3,328	
815-E001	Geotextile under Riprap	SY	2.474	

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STATE PROJECT NO.

/.P.C. 1505+35 /.P.C. Elev. 405.8830

1.2140 %



GENERAL NOTES:

Mississippi Standard Specifications for Road and Bridge Construction, 2017. No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. 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. The final surface texture of the bridge deck shall be mechanically transverse grooved in accordance with Sections 501 and 804 of the specifications. See Misc. Span Details for limits of transverse grooving on bridge deck. Bridge concrete shall be class "AA" or Class "BD" as indicated in plans. Railing expansion joint material shall be bituminous fiber type unless otherwise noted. No payment will be allowed for excavation incidental to the construction of end bents. Bar bending details shall be in accordance with "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315R-94). Reinforcement order lists and required placing plans shall be furnished in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable. Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Director of Structures, State Bridge Engineer for approval prior to the manufacture of beams. The Fabricator shall provide camber data at release and immediately prior to shipping. The Contractor shall provide camber data after erection. The Contractor should be aware 'that the deflection diagram may be modified based on the provided camber data. Therefore, deck grades should be set only after notification from the Director of Structures, State Bridge Engineer. Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications. Reinforcing steel shall be ASTM A'615, Grade 60, unless otherwise noted. Work for which no pay item is provided in the proposal will * NOTE: not be paid for directly and compensation therefor will Minimum tip elevation be included in the prices and payments for bid items. based on 500 year scour. REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE Reg'd Bearing * Min Tip Estimated Estimated Controlling Pile Size Pile type Bent No. Length (ft.) Limit State (Tons) Elevation Tip Elevation 375.2 347.2 STRENGTH I 130 HP [4x]]55 Steel 348.1 Steel 206 HP [4x]]320.1 STRENGTH I 80 Steel HP [4x]]348.1 320.2 STRENGTH 1 206 80 375.7 Steel HP [4x]/755 347.2 STRENGTH I 4 130 FSTINANTED OUANITITIES

						DUUDAN						
Item	Transverse Grooving	Conventional Static Loading Test	HP [4x][7 Piling	PDA Test Pile	Pile Restrike	Class AA Bridge Concrete	Class BD Bridge Concrete	100 Ft. Prest. Conc. Beam BT-54	Reinforce- ment	Concrete Railing	Loose Riprap (300 [#])	Geotextile Under Riprap
Location	5. Y.	Each	L.F.	Each	Each	С. Ү.	С. Ү.	L.F.	LBS.	L.F.	Ton	5. Y.
Spans	1333.33						398.82	1788.50	101,454	600.00		
End Bents			1 705.0	1	1	80.50			12,220	4.33	1 704.0	1118.0
Int. Bents		1.0	1840.0	1	1	51.78			4,528			
Total	/333.33	1.0	3545.0	2	2	132.28	398.82	1 788.50		604.33	1704.0	1118.0
L.		÷						· · · · · · · · · · · · · · · · · · ·			•	*

PLAN BRIDGE DIVISION SISSIPPI DEPARTMENT OF TRANSPORTAT

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- F.G. Elev. 407.6043

V.P.I. Elev. 409.1000

-V.P.I. 1508+00

<u>530 FT. VERTICAL CURVE</u> Total length of bridge = 302'-3"

Scale: |" = 20'-0"

PILE NOTES:

- Test piles shall be driven as permanent piles at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only.
- The Director of Structures, State Bridge Engineer may authorize test piles driven outside the structural limits.
- Test piles shall be driven as a continuous operation, to the bearing capacity and the tip elevations shown in the PDA TEST PILE SCHEDULE, unless otherwise directed by the Director of Structures, State Bridge Engineer.
- Permanent piles shall be driven to an elevation no higher than the elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.
- The tip elevation of piling, for hydraulic structures, may be determined by the scour line.
- When feasible, bearing piles shall be driven full length and be spliced, only, as approved by the Director of Structures, State Bridge Engineer.
- Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved. When loading tests are required, the maximum test load shall be one and one half (12) times the minimum pile bearing capacity.
- PDA 'test 'piles shall require a I day and 7 day restrike unless otherwise directed by the Engineer. Pile lengths and driving criteria shall be provided based on the
- Pile lengths and driving criteria shall be provided based on the results of the PDA test piles. The required ultimate pile bearing shown in the REOUIRED
- The required ultimate pile bearing shown in the REQUIRED ULTIMATE PILE BEARING AND TIP ELEVATION SCHEDULE includes the LRFD resistance factor for PDA of 0.65. Pile hammer leads used for all PDA test piles and PDA restrikes
 - shall be large enough to provide a minimum of 3" of clearance on each side of the pile in order to properly place and protect PDA gages.
- Ste'el HP piles shall be driven with a maximum rated energy no less than 58,000 ft-lbs, but no greater than 76,000 ft-lbs to the tip elevations specified unless the Contractor's drivability analysis utilizing the Contractor's selected alternative hammer is approved by the Director's of Structures, State Bridge Engineer.
- NOTE: Ultimate bearing capacities shown include the additional skin friction required to drive through the subsurface material above the 100 year scour.



NOTE:

- The girder deflection diagrams shown in these plans were profor design and estimation purposes only. Actual bridge gir from the deflection diagrams shown in these plans.
- It is the Contractor's responsibility to construct the bridge requirements of the plans and specifications including, but requirements for bridge deck smoothness.
- Prior' to formwork construction, the Contractor shall submit it proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN Bridge Engineer for review, through the Project Engineer. all calculations, assumptions and parameters used by the C bridge girder deflections and form grade elevations. This s shall also include an erection and construction procedure if the construction means and methodologies used by the Con effects including, but not limited to, construction phasing, applied permanent and construction loading, and shall include details of temporary girder bracing systems used to ensur to counter the effects of girder tilt.
- After girder erection and prior to deck construction, the Co deck thickness verification calculations for each girder. The include a comparison of the erected girder top flange pro the plan deck grade elevations over each girder plus the due to applied permanent dead load and creep.
- Three (3) copies of the deck thickness verification calculation remediation measures to correct for thin deck areas shall of Structures, State Bridge Engineer for review, through The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and th verification calculations shall be prepared and stamped by Registered Professional Engineer.



NOTE: Geotextile fabric is required

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TES	ST PILE S	CHEDULE
Bent No.	Min. Løth.~Ft.	Tip Elevation
/	65	335.0
2	90	310.6

	S	TATE	PROJECT NO.
V.P.T. 1510+65		IISS.	BR-0023-02(058)
V.P.T. Elev. 406.	3340		
1'-12"			
$\tilde{\mathcal{V}}$			
7. 186			
64 07			
\mathcal{O} .			
Top of Riprap			
LACEDIACE DECRETED			
- 100 Yr. Scour Elev. 396.5			
•			
)			
pared and intended er deflections may differ			
to meet the not limited to, the			
hree (3) copies of a to the Director of Structures State			
This submittal shall include Contractor to determine			
ibmittal hat addresses "ractor and shall consider			
ouring schedules, calculations and e girder stability and			
tractor shall submit			
se calculations shall iles versus nticipated girder deflection			
DRAINA	GE DATA: area	5 <i>q. mi</i> .	
he Project Engineer. Effective deck thickness	area) c.t.s.) sq. f	77.
TVIISSISSIPPI DESIGN	DATA:		
Specificat Loading.	'ons A.A.S.H. 	T.O., L	LRFD 2017
Concrete.	VIOTIN	4A" (4 3D" (4 ,	9,000 p.s.i.) 1,000 p.s.i.) 000 p.s.i.)
Stay-in-Pi Seismic po Seismic su	'ace metal forms !8lbs./ erformance zone ! oil site class	'ft (bei	tween flanges)
Seismic of	perational class Other		
MISSISSI	PI DEPARTMENT OF	TRAN	SPORTATION
	E "A" AT STA.	150)6+58.88
$ = \frac{1}{2} $			
ader all riprap	KAL NUIES, QU & LAYOUT	JAN	$ \rangle,$
TRANSAS	334 / 301000		
🌋 📶 🎽 COUNTY: A	TTALA		WORKING NUMBER

 DESIGNER
 JONATHAN KING
 CHECKER
 SPENCER YATES

 DETAILER
 JONATHAN KING
 ISSUE DATE
 6/12/2019

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.6 SHEET NUMBER

8003





NOTE:

For general notes, quantities, and additional details, see Sheet No. 8003.

NOTE: Geotextile fabric is required under all riprap. All riprap and geotextile fabric shown on the bridge plans are included in the bridge quantities.





** NOTES: 1/4" seat required. See sealing details on sheet no. 8010.



BAR BENDING DETAILS All dimensions are out to out





<u>SECTION</u> A-A









TABLE OF R END SPANS	AILING BARS NO. 1 & 3	TABLE OF R INT. SPA	PAILING BARS IN NO. 2
Mark	No.	Mark	No.
D	350	D	350
R	350	R	350

Note: Per Span

										STATE MISS.	PROJECT NO. BR-0023-02(058
				T T E S	NOTE: The deck pour ecommended a ouring sequent ngineer and a tate Bridge 1	ing sched and shall ce is sul approved Engineer.	ule as shown on these p be used unless an altern mitted through the Proje by the Director of Struc	lans is pative pot ctures,	**NOTE: Symmetric	al placed about & joint.	
² our 1					11-0"	Pour	10'-0"		Pour 1		
$\frac{8-^{\#}4x90'}{(Tvp \ Fach \ B}$	<u>4"</u>		4-#7x29'- (Typ. Each Ov	-8" rerhang		3-	-#8x15'-0"		8	-#4x65'-0" Fach Bay)	
(<i>Typ.</i>	4-#4x90'-4" Each Overhang)		8-#7x29'-8 (Түр. Each Ba '-6" (Түр.)	3" Y)						4-#4x65'-0" (Typ. Each Overhang)	;
	· · · · · · · · · · · · · · · · · · ·								Beam 100-2	Y Y Y	
				=							
	· · · · · · · ·			-				 	Beam 100-2		
				- - -							
	·····			- - -				<u>/</u> /	Beam 100-2		
				<u>-</u> - 				 			
						¦		 	 Beam 100-2		
			B	В	<u>/'-0"</u>	Conci	r <u>ete Diaphragm</u>	$B \mid B$			
				 				 · ··ℓ 	 Beam 100-2 		
		Keyed Construction Jo	oint						Keyed Construction Joint		
						 		 	Beam 100-2		
10'-0"	10'-0"	10'-0" 20'-0"	10'-	-0"	5'-0"	5'-0"	10'-0"	10-0"	10'-0" 20'-0"	10'-0" 10'	-0"
100'-0"			20				200			- 20	
PLAN OF	100 FT. SPA	IN NO. 1 & 3				/3)	PART PLAT Top half show	V OF 10 wing longitudi	<u>OFT. SPAN NO. 2</u> inal reinforcing in top of slat	<i>.</i>	
Bottom half s Drawn for Sp	showing concrete din oan I and Span 3	nensions. similar by orientation.					Bottom half s Span is symn	showing conci netrical.	rete dimensions.		
			NOTE: Foi see	r gene e Shee	eral notes and et no. 8010.	d other s	pan details		BRIDGE "A"	AT STA. 15 F 100 FT. S	NSPORTATION 06+58.88 PANS
* SPLICE Longitudina #4 ~ 1'-4	E NOTE: I bars in deck may	be lap spliced as follows:					Stand OF TRAN	NS POR	NO. NO. FMS: 103334/301	I IHROUGH	3
#5 ~ 1'-8	, 3						DEPARY DEPARY	ATTON	Image: County: Attala PROJECT NUMBER: Image: County: Attala Image: County: County: Attala Image: County: County: County: County: Attala Image: County: County	BR-ØØ23-Ø2(Ø58) CHECKER <u>SPENCER YATES</u> ISSUE DATE <u>6/12/2019</u> BRIDGE ENGINEER - JUSTIN WALKER, P.E. BRIDGE ENGINEER - SCOTT WESTERFIELD	WORKING NUMBE A6 OF A16 SHEET NUMBER P.E. 8008



PLAN BRIDGE DIVISION ISSISSIPPI DEPARTMENT OF TRANSPORT≠

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STATE MISS.	PROJECT NO. BR-0023-02(058)
MISS. Fruin holes per fined No. 8010 Bars C 3^n Drip bead per details on Sheet No. 8010 Tight form; cauk as necessary to prevent looker of beam. 3^{-9^n} 3^{-9^n} 3^{-9^n} 3^{-9^n} 5ECTION K-K NOTE: Contractor should be aware of possible If the superstructure and should the precoutionary steps to prevent such tilling of beam. NOTE: Contractor should be aware of possible If the superstructure and should the precoutionary steps to prevent such tilling of beam.	DR-UUZJ-UZ(U58)
Drain holes per theel Ne. 8010 Rers C Tight Torm; cauk as necessary to prevent leakage & staining of outside face of beam. *10 bar *10 bar	
In the sper the sper set of possible the sper set of prevent such that poles are completely the sper set of possible the sper set of prevent such that poles the preceditionary steps to prevent such that poles are completely the sper set of possible that poles that poles the prevent such that poles are completely the sper set of possible that poles that poles in beam webs are completely the sper set of possible that poles in beam webs are completely the sper set of possible that poles in beam webs are completely the sper set of possible that poles in beam webs are completely the spec set of poles.	
Drain holes per heet No. 8010 Bars C i Drip bead per details on Sheet No. 8010 Tight form; caulk as necessary to prevent featage & staining of outside face of beam. *10 bar i Jon SECTION K K NOTE: Contractor should be aware of possible WOTE: Contractor should be aware of possible Contractor should be aware of	
Sheet No. 8010 Bars C Tight form; caulk as necessary to prevent leakage & staining of outside face of beam. *10 bar 3'-9" *10 bar SECTION K-K NOTE: Contractor should be aware of possible titing of exterior beams during construction of the superstructure and should take precoulionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely Hild with tolephram concrete.	
there is a specific the specific test of	
<i>B"</i> Drip bead per details on Sheet No. 8010 Tight form; caulk as necessary to prevent leakage & staining of outside face of beam. <i>a'g"</i> <i>a'g"</i> <i>a'g"</i> <i>b</i> <i>secontractor</i> should be aware of possible itiling of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. <i>NOTE:</i> Ensure that holes in beam webs are completely itiled with diaphrapm concrete.	
Tight form; caulk as necessary to prevent leakage & stoining of oulside lace of beam. $3' \cdot 9''$ 10 ber $3' \cdot 9''$ 10 ber 5ECTION K-K NOTE: Contractor should be aware of possible fitting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilling of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphraum concrete.	
<i>outside face of beam.</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9"</i> <i>3'-9</i>	
$\frac{1}{3^{\prime} - 9^{\prime\prime}}$	
$\frac{1}{3^{\prime} - g^{\prime\prime}}$	
*10 bar *10	
*10 bar *10 bar *10 bar <i>b</i> <i>b</i> <i>b</i> <i>b</i> <i>b</i> <i>b</i> <i>b</i> <i></i>	
*10 bar The second start of the second start of the superstructure and should lake precautionary steps to prevent such tilting of beams. NOTE: NOTE: Ensure that holes in beam webs are completely tilled with diaphraam concrete.	
*10 bar The superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: NOTE: NOTE: Ensure that holes in beam webs are completely filled with diaphragem concrete.	
*10 bar The formula of the second of the se	
*10 bar WOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely tilled with diaphraem concrete.	
SECTION K-K NOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
SECTION K-K NOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
<u>SECTION K-K</u> NOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
<u>SECTION K-K</u> NOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
NOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
NOTE: Contractor should be aware of possible tilting of exterior beams during construction of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
of the superstructure and should take precautionary steps to prevent such tilting of beams. NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
NOTE: Ensure that holes in beam webs are completely filled with diaphragm concrete.	
Ensure that holes in beam webs are completely filled with diaphragm concrete.	
NOTE.	
The volume of concrete in the fillets between the bottom c the nominal slab and the top of the beams has been estima	nf ted
by using ½ the fillet height, at the bearing, multiplied by th top flange width and the full length of the beam. This volume shall be used for final pay quantity. Any additional	e
concrete required in the fillet resulting from an unexpected camber in the beam will not be directly paid for and shall	be
NOTE:	
For GENERAL NOTES, Railing Details and other Typical Spa see Sheets No. 8010 & RD-32.	an Details
DESIGN DATA:	
Specifications A.A.S.H.T.O. LRFD, 2017 Loading	
Slab stresses	s.i. ; n=8
Class "BD" (4,000 p.s.i.) NOTE: Class "BD" concrete shall be used in the spans &	diaphragms.
	16+58 88
$ _{z} $ 100 FT. SPAN DETA	AILS
COUNTY: ATTAL A	
Image: State of the state o	A7 OF A10
DESIGNER JONATHAN KING CHECKER SPENCER YATES DETAILER JONATHAN KING DIRECTOR OF STRUCTURES STATE BRIDGE ENGINEER - HISTIN WALKER PE	SHEET NUMBER



F	PAD
THICKNES	ss table
PAD	COMPRESSED
THICKNESS	PAD THICKNESS
1 "	5
1 "	5
2^{7}_{8} "	213 "

 $|\mathcal{N}|$



GENERAL NOTES:

All concrete in span shall be class "BD". All concrete in railing shall be class "AA". Chamfer all edges 4", unless otherwise noted. See Layout sheet for finishing of concrete surfaces. Placing dimensions for reinforcing steel to concrete surfaces are clear distances. To determine the dimension from finish grade to cap, the

assumption is made that the compressed thickness of the neoprene pad is as shown in table, and that the original camber of the beams will be within the limits shown on the Beam Detail sheets. The Director of Structures, State Bridge Engineer shall be notified if the cambers are not within these limits.





LR indicates lo	w-relaxation	n strands				PRES	TRESS	REQUIA	REMENTS					
Strand type	Minimum breaking	Initial tension	ial Required number and location of strands tota.					Required number and location of strands						
			Total	Straight	t strands	Dra	ped stra	ands		(in.)				
	lbs/strand	lbs/strand	number strands	Number strands	Centroid (in.)	At É span	At beam end							
6/10-270K-LL	58,600	43,950	26	20	3.50	6	4.50	49.00	3. 73	14.00				



LR indicates low-relaxation strands				PRESTRESS REQUIREMENTS							For deflection diagram, see Misc. Span Details per sheet no. A8						
	Strand type	Minimum breaking	Initial tension		Required number and location of strands to			Centr total numbe	oid for pr of strands	Distance from £	Camber limits	Deflection diagram		Minimum concrete			
	,,	strength		Total number	Straigh1 Number	* strands Centroid	Draped strands Number Centroid (in.)		(in.)		span to hold-down		A	B	С	strength at time of	
		lbs/strand	lbs/strand	strands	strands	(in.)	strands	£ span	Beam end			point					release (psi,
67	/10-270K-LL	58,600	43,950	26	20	3.50	6	4.50	49.00	3.73	14.00	10'-0"	416	2"	12"	 2	5500



V.P.I. Sta. 1580+75 V.P.I. Elev. 415.2900

-0.6951 %

_V.P.T. Sta. 1582+75 V.P.T. Elev. 413.8960



GENERAL NOTES:

Mississippi Standard Specifications for Road and Bridge Construction, 2017.

- No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. 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 ad justment.
- The final surface texture of the bridge deck shall be mechanically transverse grooved in accordance with Sections 501 and 804 of the specifications. See Misc. Span Details for limits of transverse grooving on bridge deck.
- Bridge concrete shall be class "AA" or Class "BD" as indicated in plans. Railing expansion joint material shall be bituminous fiber type unless otherwise noted.
- No payment will be allowed for excavation incidental to the construction of end bents.
- Bar bending details shall be in accordance with "Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACL 375R-94).
- Reinforcement order lists and required placing plans shall be furnished in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable.
- Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Director of Structures,
- State Bridge Engineer for approval prior to the manufacture of beams. The Fabricator shall provide camber data at release and immediately prior to shipping.
- The Contractor shall provide camber data after erection. The Contractor should be aware that the deflection diagram may be modified based on the provided camber data. Therefore, deck grades should be set only after notification from the Director of Structures, State Bridge Engineer.
- Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications. Reinforcing steel shall be ASTM A'615, Grade 60, unless
- otherwise noted. Work for which no pay item is provided in the proposal will not be paid for directly and compensation therefore will be included in the prices and payments for bid items.

				ES	TIMA TE	D QUANT	TTIES						
Item	Transverse Grooving	Conventional Static Loading Test	HP14X117 Steel Piling	PDA Test Pile	Pile Restrike	Class AA Bridge Concrete	Class BD Bridge Concrete	115 Ft. Prest. Conc. Beam BT-54	80 Ft. Prest. Conc. Beam Type III	Reinforce- ment	Concrete Railing	Loose Riprap (300 [#])	Geotextile Under Riprap
Location	5. Y.	Each	L.F.	Each	Each	С. Ү.	С. Ү.	L.F.	L.F.	LBS.	L.F.	Ton	5. Y.
Spans	1222.22						369.97	803.25	953.50	87,470	550.00		
End Bents			2065.0	1	1	77.62				11,958	4.35	1624.0	1356.0
Int. Bents		1	1 725.0	1	1	55.25				5,260			
Total	1222.22	/	3790.0	2	2	132.88	369.97	803.25	953.50	104,688	554.35	1624.0	1356.0

REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP FLEVATION SCHEDULE

Bent No. Pile type Reg'd Bearing (Tons)		Pile Size	Estimated Length (ft.)	*Min Tip Elevation	Estimated Tip Elevation	Controlling Limit State						
/	Steel	115	HP 14x117	60	382.0	347.1	STRENGTH I					
2	Steel	172	HP 14x117	75	360.0	331.5	STRENGTH I					
3	Steel	1 78	HP 14x117	75	360.0	330.1	STRENGTH I					
4	Steel	137	HP 14x117	65	382.0	339.2	STRENGTH I					



TEST PILE SCHEDULE									
Bent No.	Min. Leth.~Ft.	Tip Elevation							
3	85	320.0							
4	75	329.2							



Geotextile fabric is required under all riprap. All riprap



HP14x117 steel piles

			STATE	PROJECT NO.
			MISS.	BR-0023-02(058)
		7		
	,			
JANICANI JANICANI	LON VON			
	ction Poadu			
3:18	1 Se			
<i>-0 - - - - - - - - - -</i>	prod			
- Shoulder Line				
-Edge of Travel Lane	10'-0"			
nd bridge at ta. 1586+59.13	12'-0"			
É Approach Roadway	12'-0"			
Edge of Travel Lane	10'-0"			

Shoulder Line

– End Detour Bridge Approx. Sta. 9+95.00

NOTE: Prior to construction, the contractor is to contact Mr. James Mooney of Texas Eastern at 662-289-2991 or 601-594-9264 about construction guidelines near their gas pipeline.

NOTE: In lieu of splice plates, prefabricated splicers may be used. Prefabricated splicers shall be submitted for approval by the Director of Structures, State Bridge Engineer.









** NOTES:1/4" seat required. See sealing details on sheet no. 8024.



180° hk. (6") Bars RX ~ [#]4



BAR BENDING DETAILS All dimensions are out to out



SECTION A-A

	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
Bars Ln		
2" cl + #6 bars vert. @ 1'-0"		
Barş K.I. @ I'-0" — *5 bars horizontal		
l'-O" embedment		
2''		
2 c/.		
fer corners of cap 4" - Bars A2		
<u>1'-3" ['-3" </u> <u>Plies</u>		
SECTIONI R_R		
$\underline{JLCIIOND^{-}D}$		

GENERAL NOTES:

All concrete in end bents shall be class "AA". Chamfer all edges 4", unless otherwise noted. Portion of end wall between top of cap and permissible construction joint shall be constructed after placement of prestressed concrete beams. Portion of end wall above permissible construction joint shall not be constructed until bridge deck is in place and forms removed.

Piles for end bents shall not be driven until bridge end fill has been constructed to grade. Dimensions from reinforcing steel to concrete surfaces are clear distances.











TABLE OF I PER .	RAILING BARS SPAN
Mark	No.
D	280
R	280
Dx	4
Rx	4

*SPLICE NOTE: Long. Bars In Deck May Be Lap Spliced As Follows #5 ~ 1 -8"

				STATE	PROJECT NO. BR-0023-02(058)
		Pour I			
	80'				
	<i>8-#</i>	$\frac{4 \times 71' - 6''}{2 \times 6 \times 6}$			
	(170.	$3 = # 4 \times 71' = 6''$			
		(Typ. Each Overhang)	- 7 space	es @ 6" ~ bars B &	C
	+		Cut to	fit skew (6'-3" - 40	
	Y Y Y				
	Y Y Y				
				· _ · _ · _ · _ · _ · _ · _ · _ · _ · _	
	· ·		· _ · _ · _ · _ · _ · _ · _ · _ · _ · _		
	====			2'-28" to full length ========	first bar = = = = =
					5°00'00"
- 10'-	-0″	10'-0"	10'-0"	10'-0"	5'-0"
- - 80'-	-0″	200		200	F
		N/0 T/F •			3
		The deck pouring sc recommended and sha	hedule as shown o. all be used unless submitted through	n these plans is an alternative the Preciset	
		Engineer and approve State Bridge Enginee	ed by the Director pr.	of Structures,	
		NOTE: For sections, genera	notes, and other	- details:	
		see sneels no. OUZ	1 & OUZ4.		
			SSIPPI DEPAR'	TMENT OF TRAN	SPORTATION
			JUL U A	\cdot \cup \cdot \cap \cdot \cdot \cup \cup	
_		ISION	PLAN OF NO.	80 FT SPA 1 AND 2	ANS
WHIT OF	TRANSPOR	,	03334 / 301000 Y <u>:</u> Attal A	2	
DEPAR		PROJE	CT NUMBER: BF	R-0023-02(058)	WURKING NUMBER B8 OF B14 SHEET NUMBER
III SS	SSIPP		IONATHAN KING OR OF STRUCTURES, STATE BRIDGE STRUCTURES, ASST. STATE BRIDGE	ISSUE DATE 6/12/2019 E ENGINEER - JUSTIN WALKER, P.E. GE ENGINEER - SCOTT WESTERFIELD, P.E.	





TABLE OF	RAILING BARS
Mark	No.
D	390
R	390
Dx	4
Rx	4

				STATE PROJECT NO. MISS. BR-0023-02(058)
115'-08	7 //		2 top	~ #5 x 5'-0" in o and bottom of slab
			Cut to fit skew	$\frac{\Box}{9'-10'' \ to \ 40'-9_2'')}$
204 spaces @ 6½" 				
				Inst full length bars
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-0" -0" -0"-0" -20'-0"	ГО'-0" 10'-0" 20'-0"		
ch Side) D-32 <u>PLAN OF 115 FT. SPAN</u> Showing concrete dimensions and transverse reinforceme	n <i>†</i>			4
NOTE: For general notes, sections, and other details: see sheets no. 8023 and 8024.	* SPLICE NOTE: Long. bars in deck may be lap spliced as follo #5~ 1'-8	WS	MISSISSIPPI DEPAI BRIDGE "B" A PLAN OF FMS: 103334 / 30100 COUNTY: ATTALA PROJECT NUMBER: E DESIGNER JONATHAN KING DETAILER JONATHAN KING DIRECTOR OF STRUCTURES, STATE BRI DEP. DIR. OF STRUCTURES, ASST. STATE BRI	RTMENT OF TRANSPORTATION AT STA. 1583+71.88AT STA. 1583+71.88= 115 FT SPAN NO. 3MOBR-0023-02(058)CHECKER SPENCER YATES ISSUE DATE 6/12/2019DGE ENGINEER - JUSTIN WALKER, P.E. INDER ENGINEER - SCOTT WESTERFIELD, P.E.





PLAN BRIDGE DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTA

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BAR BENDING DETAILS Dimensions are out to out

								STATE	PROJ	ECT N	٧٥.
								MISS.	BR-002	3-02(0	058)
	b 4	1'-5"									
<i></i>											
cated 3"x8" drain ails on sheet no. B	holes										
Bars C											
<u> </u>			2 //								
		6	4	Drip be	ead pe.	r details	s on sh	beet no. B	//		
.1				_ Tight . preven	form; d nt leakd	caulk as age & s.	necess taining	sary to of			
				outside	e face	of bean	77.				
		7									
6-9	3-2										
	NUTE: Contractor	should	t be a	aware o	f poss	ible					
	of the supe steps to p	rstruc rstruc event	r bean cture ' such	ns durin and shi tilting	ng cons ould te of bee	struction ake preco ams.	autional	rγ			
	NOTE:			0							
	Ensure that filled with d	holes liaphra	s in bo agm co	eam we. oncrete.	bs are	comple1	tely				
	NOTE: The volume	of co	ncrete	o in the	o fillot	s hetwe	en the	hottom of			
	the nominal by using 2	slab a the fil	and th	ne top Pight, a	of the t_the_	beams i bearing,	has bee multipli	en estimate ed by the	20		
	top tlange v volume shali concrete re	vidth a be u. nuired	and ti ised f in th	he tull or final pe fillet	length pay c resuli	ot the quantity. ting from	beam. Any a n an un	This additional pexpected			
	camber in th considered d	ne bea n abs	am wil. sorbed	l not b item.	e direc	ctly paid	for a	end shall be	2		
	NOTE:										
	For general see Sheets	notes, No. E	s, raili 8024	ing deta 8 RD-1	ails and 32.	d other	typical	span deta	ails		
	DESIGN	DA TA	A.								
	Specification Loading	°S	o o o o o c	• • • • • • • •	A. A. 5 HL -93	. <i>Н.Т.О.</i> З	LRFD,	2017 Inte	rims		
	Slab stress Prestressed Concrete	ps beam	, deta	 i/s	f=24,0 See s Class	000 p.s.1 sheets no "AA" (2	i. ; f_=_ p. B13 4.000 ;	1,600 p.s.	i. ; n=8		
	NO TE: Cla	ss "Bi	3D" ca	pncrete	Class shall	"BD" (2 be used	4,000 , in the	p.s.i.) spans &	diaphragn	<i>15.</i>	
			ISSIS	SIPPI		ARTME	NT C	F TRAN	ISPORT	'ATI()N
		- Bł	RID	GE	В	AI.	SIA	. 158	53+ /]	.86	3
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			SNER JON	ATHAN KIN IATHAN KIN	IG NG	CHECKE ISSUE	R <u>SPENCER</u> DATE 6/12	YATES /2019			JER
5/551			DIRECTOR DIR. OF ST	UF STRUCTUR RUCTURES, AS	ES, STATE <u>SST. STATE</u>	BRIDGE ENGINEE BRIDGE ENGINE	ER - JUSTIN EER - SCOTT	WALKER, P.E. WESTERFIELD, P.E	. 8	<u> </u>)





LR indicates i	low-relaxatic	on strands				PRES,	TRESS	REQUIR	EMENTS		Fc Sf	
Strand type	Minimum breaking	Initial tension		Required number and location of strands						Centroid for total number of strands		
,,,	strength		Total	Straight	'strands	Dra	ped stra	ands	(in.)			
	lbs/strand	lbs/strand	number strands	Number strands	Centroid (in.)	Number strands	Centro É span	pid (in.) Beam end	At £ span	At beam end		
2"\$270 K-LR	41,300	30,980	30	24	4.50	6	4.50	40.00	4.50	11.60		



PLAN BRIDGE DIVISION ISSIPPI DEPARTMENT OF TRANSI

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SR 35 OVER BOKSHENYA CREEK				
STATION NO.: 1506+58.88, BRG No. 150.5				
	201000			
103334/ PROJECT NO: BR-0023-(301000)2(058)			
COUNTY: ATTALA		WORKING NUMBER		
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CHECKED: M.L.S. ISSUED: R.S.F.	DATE: <u>10-29-18</u>	8027		



4. BRIDGE PLAN PROFILE STATIONING MAY NOT BE THE FINAL DESIGN (SEE NOTICE TO CONTRACTOR NOTE 3)

		STATE	PROJECT NO.	
		MISS.	BR-0023-02(058)	
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/587•00	©€ EXISTING SR 35 ≇			
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	E: 15-04-17.DGN	: 15-04-17		
	MISSISSIPPI DEPARTMENT C	OF TRANS	SPORTATION	
GENERALIZED SOIL PROFILE				
STATION NO. 4582-74 88 DBO No. 4582				
SNO	STATION NO.: 1503+71.88, SITE NO: 16-04-2183	BRG NO.	. 132.0	
REVIS	103334/3010	00		
	PROJECT NO: BR-0023-02(058)	WORKING NUMBER	
			GSP-B	
DATE	CHECKED: M.L.S. ISSUED: R.S.F. DAT	re: <u>10-29-18</u>	8028	

V.P.T. Sta. 4+50.00 Elev. 403.504

NOTE TO CONTRACTOR:

- The Contractor shall employ the service of a registered Professional Engineer who is knowledgeable and proficient in the field of bridge design.
- The Contractor's Design Engineer shall determine the required ultimate pile bearing capacities based on the use of Pile Dynamic Analysis (PDA) for the condition/bearing resistance determination method per the AASHTO LRFD Bridge Design Specifications.
- The Contractor's Design Engineer will be responsible for providing the Pile Dynamic Analysis (PDA) and for establishing the production pile driving criteria.
- The Contractor's Design Engineer shall determine the lengths of all test piles and production piles.
- The following exceptions to the AASHTO LRFD Bridge Design Specifications will be allowed for the design of Detour Bridges:
- (1) The design of the substructure of the Detour Bridge shall be made to satisfy the requirements of the following Limit States: Strength I, Strength III, Strength V, and Service I.
- (2) With PDA pile tests for the Detour Bridge Piling being performed and analyzed by the Contractor*s Design Engineer, a value of 0.85 for the condition/resistance Factor for Driven Piles may be used to set final Detour Bridge pile lengths.
- (3) The Design Vehicular Loading (Truck + Lane) used may be 75% of the HL-93 Live Loading.
- A complete set of bridge detail drawings, bearing the official seal of the Contractor's Design Engineer, along with design calculations, shall be submitted to the Project Engineer and the Director of Structures, State Bridge Engineer for review. The submittal shall specify the bridge span arrangement, configuration, location, minimum geometric and loading requirements, verification of ground line elevations and effective area of opening. The submittal shall also specify the LRFD factored pile loading (Strength I), the required ultimate pile bearing capacities based on the condition/resistance determination method used, type and estimated length of test and production piling, the stationing and finish grade at each bent and total length of the detour bridge.
- The Contractor's erosion control plan shall address the construction, maintenance, and removal of the detour bridge. The detour bridge shall be long enough such that spill-through slopes of abutments do not spill over into the channel.
- Prior to opening the detour bridge to traffic, the Contractor shall submit test pile data and pile records to the Engineer for review and shall provide MDOT written certification from the Contractor's Design Engineer that construction of the bridge was in full accordance with the design plans.
- Any deviations in construction of the detour bridge from the detour bridge design plans shall require the Contractor's Design Engineer to provide corrected calculations and corresponding revisions made to the detour bridge plans which shall be stamped by the Contractor's Design Engineer.

Anchor span(s)

GENERAL NOTES: Construction, 2017.

- The detour bridge shall be designed and furnished by the Contractor (see NOTE TO CONTRACTOR).
- skid resistant material subject to approval by MDOT. The detour bridge superstructure shall be constructed of new or used precast concrete units, steel beams, steel framing or prestressed
- condition having no visible defects. All elements shall be compatible. Use of open-grid bridge decking will not be permitted. The bridge railing shall have a minimum LRFD rating of test level two (TL-2).
- Rough, untreated hardwood timber may be used for the construction of bulkheads or bent caps. Used timber shall be in good, sound condition. Untreated timber piles may be used. Piling size shall be as designated in Section 719 of the Specifications. Piling shall be driven to bearing sufficient to meet pile bearing
- requirements and ensure stability of the substructure. Piles in bulkhead shall be an absorbed item. During the time the detour bridge is in place, the waterway shall be kept free of all obstructions to the free flow of water.
- After the permanent structure has been opened to traffic, the detour bridge shall be removed by the Contractor.
- All material furnished by the Contractor and used in construction with the detour bridge shall remain the property of the Contractor and shall be removed from the site.
- Test piles shall be driven out of position and shall be removed to a Work for which no pay item is provided in the proposal will not be paid minimum of one foot (1.00) below the ground line upon acceptance by for directly and compensation therefor will be included in the prices the Project Engineer. and payments for bid items.

0.1846 %

Minimum length of bridge = 137'-0"



DETOUR BRIDGE OVER BOKSHENYA CREEK Scale: 1"=10"

*NOTE: For minimum finishe see Roadway Plan

- Specifications: MISSISSIPPI Standard Specifications for Road and Bridge
- The detour bridge deck surface shall be of concrete, asphalt, or other
- concrete units. Used units or components shall be in good, sound

GENERAL NOTES (continued):

- Minimum requirements for location and number of test piles are as follows: (1) The number of intermediate bent test piles shall be calculated by dividing the total detour bridge length by 120 ft, rounded to the nearest whole number and shall be a minimum of one test pile.
- (2) One abutment test pile is required for bridge lengths less than 400 ft.
- (3) One abutment test pile at each abutment is required for bridge lengths greater than or equal to 400 ft.
- Detour bridge piles shall be pulled or cut off a minimum of one foot (1.00) below the ground line.
- The Contractor's detour bridge submittal shall include a plan to address potential scour and drift effects by utilizing methodologies such as substructure bracing/strengthening, rip rap protection, brush deflectors, deeper pile penetration, stronger/more durable pile types and bridge inspection with drift removal during storm events.
- The detour bridge length shown hereon utilizes a bulkhead abutment configuration to meet the minimum effective opening requirements. Use of bridge configurations that incorporate spill-through slopes may require additional bridge length to meet the minimum effective opening requirements. Additional bridge length, span length and/or other bridge adjustments required to address minimum effective opening requirements, site conditions and/or erosion control requirements will not be cause for additional compensation.
- Payment for the detour bridge will be made under the pay items in Special Provision 907-618.

	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
ed grades 5 Sheets.		
NUTE: Detour roadway embankment shall be removed elevation ±396.5 from station 6+25 to stat detour road is no longer serving traffic and	to natura. ion 11+15 shall be	l ground once the shown
accordingly on all plans.		
DRAINAGE DATA:		
Drainage area	2 sq. mi. 10 c.f.s.	
Min. low chord elevation 3. Anchor span minimum length	99.1 ft. 9'-0''	
Main span minimum length E	80'-0"	
DESIGN DATA: Specifications A.A.S.H	. T. O., LRF.	0 2017
Loading	HL-93 gutter to	gutter
MISSISSIPPI DEPARTMENT O	F TRAN	SPORTATION
HHH DETOUR BRIDGE AT	STA.	7+73.00
IIIIIINAS 25 NVED RAKEL		CREEK
OF TRANSPORT		
PROJECT NUMBER RE-MM23-M	2(1758)	WORKING NUMBER
Image: Construction of the second	YATES /2019	SHEET NUMBER
J S S V Image: Signature of Structures o	WALKER, P.E. WESTERFIELD, P.E.	8029

Finish grade Min. low chord elevation -

.P.T. Sta. 7+35.00

Elev. 409.530

NOTE TO CONTRACTOR:

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- The Contractor's Design Engineer shall determine the required ultimate pile bearing capacities based on the use of Pile Dynamic Analysis (PDA) for the condition/bearing resistance determination method per the AASHTO LRFD Bridge Design Specifications.
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- (2) With PDA pile tests for the Detour Bridge Piling being performed and analyzed by the Contractor*s Design Engineer, a value of 0.85 for the condition/resistance Factor for Driven Piles may be used to set final Detour Bridge pile lengths.
- (3) The Design Vehicular Loading (Truck + Lane) used may be 75% of the HL-93 Live Loading.
- A complete set of bridge detail drawings, bearing the official seal of the Contractor's Design Engineer, along with design calculations, shall be submitted to the Project Engineer and the Director of Structures, State Bridge Engineer for review. The submittal shall specify the bridge span arrangement, configuration, location, minimum geometric and loading requirements, verification of ground line elevations and effective area of opening. The submittal shall also specify the LRFD factored pile loading (Strength I), the required ultimate pile bearing capacities based on the condition/resistance determination method used, type and estimated length of test and production piling, the stationing and finish grade at each bent and total length of the detour bridge.
- The Contractor's erosion control plan shall address the construction, maintenance, and removal of the detour bridge. The detour bridge shall be long enough such that spill-through slopes of abutments do not spill over into the channel.
- Prior to opening the detour bridge to traffic, the Contractor shall submit test pile data and pile records to the Engineer for review and shall provide MDOT written certification from the Contractor's Design Engineer that construction of the bridge was in full accordance with the design plans.
- Any deviations in construction of the detour bridge from the detour bridge design plans shall require the Contractor's Design Engineer to provide corrected calculations and corresponding revisions made to the detour bridge plans which shall be stamped by the Contractor's Design Engineer.

GENERAL NOTES:

- Specifications: MISSISSIPPI Standard Specifications for Road and Bridge Construction, 2017. The detour bridge shall be designed and furnished by the Contractor (see NOTE TO CONTRACTOR). The detour bridge deck surface shall be of concrete, asphalt, or other skid resistant material subject to approval by MDOT. The detour bridge superstructure shall be constructed of new or used precast concrete units, steel beams, steel framing or prestressed concrete units. Used units or components shall be in good, sound condition having no visible defects. All elements shall be compatible. Use of open-grid bridge decking will not be permitted. The bridge railing shall have a minimum LRFD rating of test level two (TL-2). Rough, untreated hardwood timber may be used for the construction of bulkheads or bent caps. Used timber shall be in good, sound condition.
- Untreated timber piles may be used. Piling size shall be as designated in Section 719 of the Specifications. Piling shall be driven to bearing sufficient to meet pile bearing requirements and ensure stability of the substructure. Piles in bulkhead shall be an absorbed item.
- During the time the detour bridge is in place, the waterway shall be kept free of all obstructions to the free flow of water. After the permanent structure has been opened to traffic, the detour bridge shall be removed by the Contractor.
- All material furnished by the Contractor and used in construction with the detour bridge shall remain the property of the Contractor and shall be removed from the site.
- Test piles shall be driven out of position and shall be removed to a minimum of one foot (1.00) below the ground line upon acceptance by the Project Engineer.

Minimum length of bridge = 190'-0"





PLAN BRIDGE DIVISION SISSIPPI DEPARTMENT OF TRANSPORTATIC

30: 00 AMPM DGNFI LENAME





EROSION CONTROL NOTES:

- I. No dirt can be pushed into the creek.
- 2. If a platform for working is needed, then riprap may be used.
- 3. Minimize disturbance to existing banks.
- 4. If the bent is in close proximity to the banks,
- then riprap shall be placed prior to the banks. 5. Riprap shall be placed on slopes immediately after pile driving.
- 6. Clearing should be kept to a minimum and grubbing only where required.
- 7. Turbidity curtain may be required.

EROSION CONTROL PLAN

	STATE	PROJECT NO.
	MISS.	BR-0023-02(058)
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<u>25'-0" Downstream</u> 10'-0" Upstream		
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DEP. DIR. OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOT	WALNER, M.L. WESTERFIELD, P.E.	OWJZ






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	EROSION CONTROL NOTES:		
	1. No dirt can be pushed into the creek. 2. If a platform for working is needed. then rin	Prap	
	may be used. 3. Minimize disturbance to existing banks.	,	
	4. If the bent is in close proximity to the bank then riprap shall be placed prior to the bank 5. Riprap shall be placed on slopes immediately	s, ks. after nile	
	driving.6. Clearing should be kept to a minimum and gru	ubbing only	
	where required. 7. Turbidity curtain may be required.		
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	BRIDGE EROSION	CONT	IROL
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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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CROSS SECTION ROADWAY DESIGN DIVISION C.A.D.D. SECTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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