

STATE	PROJECT NO.	SHEET NO.
MISS.	BR-0020-01(192)	1

**GENERAL INDEX**

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

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

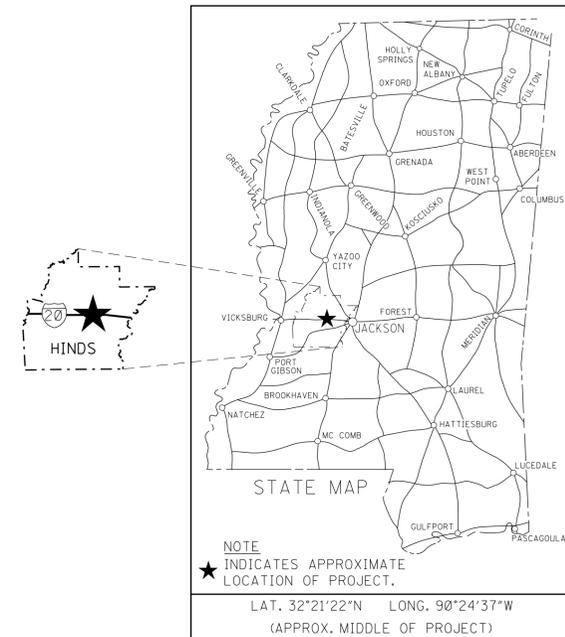
## FEDERAL AID PROJECT NO. BR-0020-01(192)

I-20 EASTBOUND LANES  
 REPLACE BR. #31.5 - OVER MERIDIAN SPEEDWAY  
 HINDS COUNTY

FMS CONST.: 105022/301000

**SCALES**

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

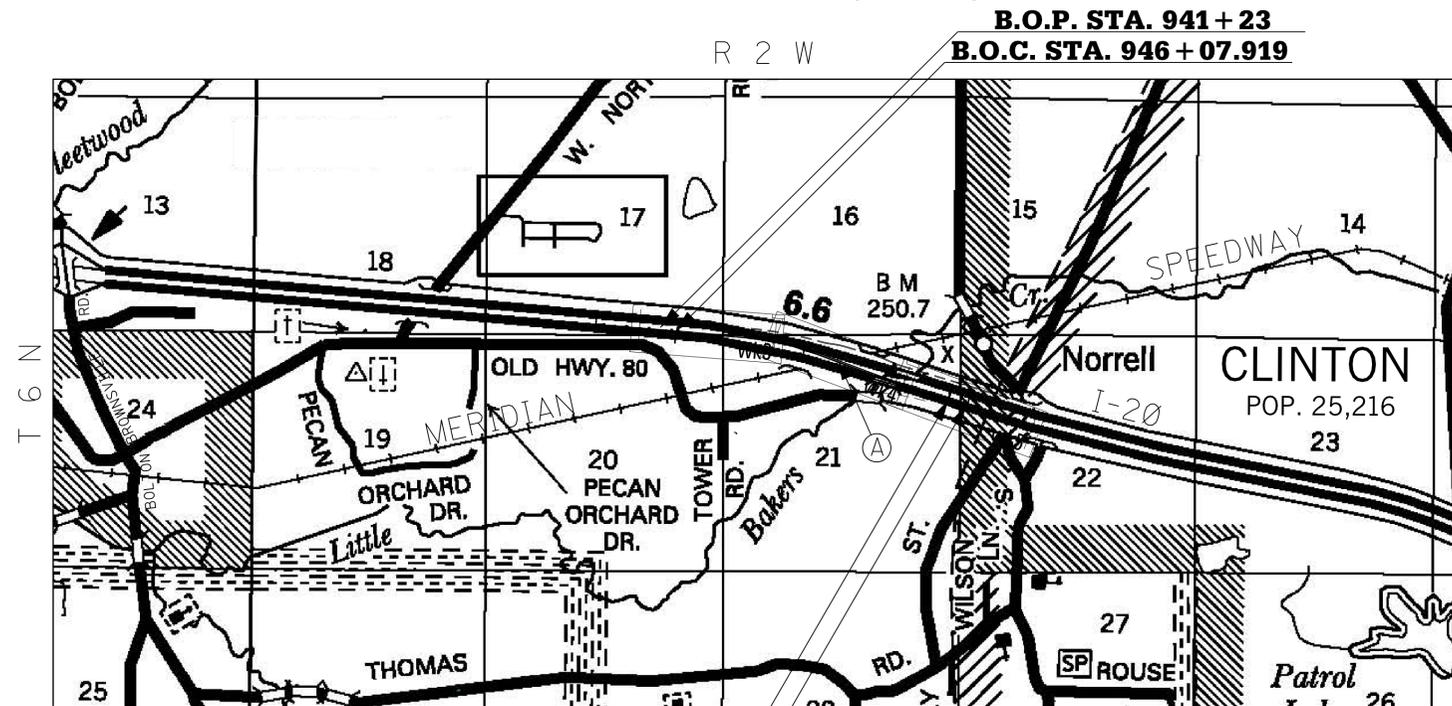


**BRIDGE STRUCTURES REQ'D.**

(A) STA. 977+52.88  
 SPANS REQ'D. 2@80', 1@695' (210'-275'-210'),  
 4@100', 2@95', 1@110', 2@60'  
 1677.25' ALONG C  
 BRIDGE NO. 31.5

**BOX BRIDGES REQ'D.**

NONE



**E.O.C. STA. 1008 + 57.54**  
**E.O.P. STA. 1024 + 00.00**

**EQUATIONS**

**STA. 1007 + 15.539 BK = STA. 1006 + 89.164 AH**

**LENGTH DATA**

LENGTH OF ROADWAY	4,598.746 FT.	0.871 MI.
LENGTH OF BRIDGES	1,677.250 FT.	0.318 MI.
LENGTH OF PROJECT (NET)		1.189 MI.
LENGTH OF EXCEPTIONS	0 FT.	ML.
LENGTH OF PROJECT (GROSS)		1.189 MI.

**EXCEPTIONS**

NONE

**GPS CONTROL NOTES**

GEOID MODEL: GEOID 09  
 HORIZONTAL DATUM: NAD 83 (2007) MS WEST ZONE (US SURVEY FEET)

HORIZONTAL MONUMENT	NORTH	EAST
B 226	1020338.38	2301718.59
BOLTON 2 RM 3	1038969.44	2262956.24
LEBANON	969985.91	2241409.89

VERTICAL DATUM: NAVD 88 (US SURVEY FEET)  
 VERTICAL MONUMENT ELEVATION

P 363	269.57
20 V 46	269.61

ALL AZIMUTHS AND DISTANCES ARE GRID VALUES, US SURVEY FEET

CONVERSION VALUES	PROJECT AVERAGE
GROUND TO GRID (COMBINED) FACTOR	0.99994259716
GRID TO GEODETIC AZIMUTH	

**DESIGN CONTROL**

70 MPH = V (SPEED DESIGN)

ADT (2012) = 34,000; ADT (2032) = 47,000  
 DHV = 4,200 ; D = 50 % T = 29 %

**PERMITS ACQUIRED BY MDOT**

WETLANDS AND WATERS PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):

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

\* 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: \_\_\_\_\_

P S & E DATE: 11-14-2014

APPROVED:	DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER
EXECUTIVE DIRECTOR	

11/14/2014 1:34:53 PM LETDINGE.DGN

	WK. NO.	SH. NO.		WK. NO.	SH. NO.
*** TITLE SHEET (1) ***		1	SPECIAL DESIGN SHEETS (CONT'D)		
*** DETAILED INDEX & GENERAL NOTES (4) ***			GUARDRAIL: BRIDGE END SECTION TYPE "I" (STEEL POSTS)	GR-2F	33
DETAILED INDEX (ROADWAY)	DI-1	2	GUARDRAIL: BRIDGE END SECTION TYPE "I" (WOOD POSTS)	GR-2G	34
DETAILED INDEX (ROADWAY)	DI-2	3	GUARDRAIL: RUB RAIL HARDWARE SHEET	GR-RR	35
GENERAL NOTES	GN-1	4	VEGETATION SCHEDULE	VS-1	36
GENERAL NOTES	GN-2	5	PRELIMINARY EROSION CONTROL PLAN - B.O.P. TO STA. 969+00	ECP-3	37
*** TYPICAL SECTION SHEETS (3) ***			PRELIMINARY EROSION CONTROL PLAN - STA. 969+00 TO STA. 999+00	ECP-4	38
TYPICAL SECTION - NEW CONSTRUCTION AND WIDEN & OVERLAY	TS-1	6	PRELIMINARY EROSION CONTROL PLAN - STA. 999+00 TO E.O.P.	ECP-5	39
TYPICAL SECTION - VARIOUS	TS-2	7	TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS	ECD-1	40
TYPICAL SECTION - PERMANENT CABLE BARRIER PLACEMENT & CONSTRUCTION LANE SHIFTS	TS-3	8	DETAILS OF SEDIMENT BARRIER APPLICATIONS	ECD-2	41
*** QUANTITY SHEETS (8) ***			DETAILS OF SILT FENCE INSTALLATION	ECD-3	42
SUMMARY OF QUANTITIES	SQ-1	9	DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS	ECD-4	43
SUMMARY OF QUANTITIES	SQ-2	10	TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES,		
SUMMARY OF QUANTITIES	SQ-3	11	SILT FENCE AND HAY BALE DITCH CHECKS	ECD-5	44
ESTIMATED QUANTITIES - REMOVAL ITEMS	EQ-1	12	DETAILS OF EROSION CONTROL WATTLE DITCH CHECK	ECD-6	45
ESTIMATED QUANTITIES - PIPE CULVERTS & JUNCTION BOXES	EQ-2	13	DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK	ECD-7	46
ESTIMATED QUANTITIES - PAVEMENT MARKINGS & EARTH WORK	EQ-3	14	ROCK DITCH CHECK	ECD-8	47
ESTIMATED QUANTITIES - BRIDGE END PAVEMENT, BOX CULVERTS, & GUARD RAIL	EQ-4	15	ROCK DITCH CHECK WITH SUMP EXCAVATION	ECD-9	48
ESTIMATED QUANTITIES - TRAFFIC CONTROL SIGNS	EQ-5	16	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS	ECD-10	49
*** PLAN & PROFILE SHEETS (3) ***			INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS	ECD-11	50
MAIN FACILITY B.O.P. TO STA. 969+00	3	17	INLET PROTECTION OF WATTLES	ECD-12	51
MAIN FACILITY - STA. 969+00 TO STA.999+00	4	18	INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE	ECD-13	52
MAIN FACILITY - STA. 999+00 TO E.O.P.	5	19	INLET PROTECTION DETAILS OF SAND BAG	ECD-14	53
*** SPECIAL DESIGN SHEETS (54) ***			STABILIZED CONSTRUCTION ENTRANCE	ECD-15	54
DETAIL OF CONSTRUCTION SIGNING	DCS-1	20	TEMPORARY CULVERT STREAM CROSSING	ECD-16	55
TRAFFIC CONTROL PLANS- PRECAST MEDIAN BARRIER DETAILS	TC-1	21	TEMPORARY STREAM DIVERSION	ECD-17	56
TRAFFIC CONTROL PLANS- TYPICAL TRAFFIC LANES SHIFT	TC-2	22	TEMPORARY STREAM DIVERSION (BOX EXTENSIONS)	ECD-18	57
TRAFFIC CONTROL PLANS - PLACEMENT OF SINGLE FACED BARRICADES	TC-3	23	FLOATING TURBIDITY CURTAIN	ECD-19	58
TRAFFIC CONTROL PLAN- DRUM PLACEMENT & SHOULDER CLOSURE	TCP-SC	24	DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK	ECD-20	59
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (EXTENDED PERIOD)	SDTCP-4	25	DETAILS OF TYPICAL DITCH TREATMENTS	DT-1	60
LOCATION OF R16-3 SIGNS	SDR16-3	26	TYPICAL TEMPORARY EROSION CONTROL MEASURES		
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	SDTCP-10	27	(SLOPE DRAIN AND TYPE "A" SILT BASINS)	TEC-2	61
PAVEMENT MARKING DETAILS	PMD-1	28	SUPER SILT FENCE	SSF-1	62
PAVEMENT MARKING DETAILS	PMD-2	29	SUPERELEVATION RUNOFF CASE I ROTATION ABOUT CENTERLINE	SDRO-1	63
RUMBLE STRIP DETAIL FOR OGFC OR CONCRETE ROADWAY WITH ASPHALT SHOULDER	RS-5	30	SUPERELEVATION CASE I ROTATION ABOUT CENTERLINE (2% NORMAL SUBGRADE)	SDSE-2A	64
BRIDGE END PAVEMENT WITH RAIL & OVERLAY	BE-1C	31	TYPICAL INSTALLATION & DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS	SDSN-8	65
33.5" BRIDGE END PAVEMENT RAIL	BE-PR-1B	32	BARREL JOINT LOCATIONS- NORMAL & SKEWED CULVERTS	SD-IBJL-1	66
			SINGLE CELL- HEIGHT 4 FT. - SPANS 4-10 FT.	SD-IBS-4-2W	67
			IBS CULVERTS MODIFIED FOR HIGH COVER-WINGS WITH 3:1 SLOPE	SD-IBSM-3W	68
			SKEWED COLLAR DETAILS FOR BOX STRUCTURES (SINGLE, DOUBLE, TRIPLE & QUADRUPLE)	SD-ICJS	69

**C. WILLIS**

PS & E PLANS-DATE 11/14/2014		
FMS CON. # 105022/301000		
REVISIONS		
DATE	SHEET NO.	BY
12/12/14	10, 11	DBS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
<b>DETAILED INDEX</b>	
INTERSTATE 20	
	
<b>PROJ. NO.: BR-0020-01(192)</b> <b>COUNTY: HINDS</b>	
WORKING NUMBER	DI-1
SHEET NUMBER	2
FILENAME: DI.DGN	DESIGN TEAM: <b>WILLIS</b> CHECKED: _____ DATE: _____

12/11/2014 2:14:53:46 DI.DGN

\*\*\* STANDARD DRAWINGS - ROADWAY SHEETS (39) \*\*\*

		WK. NO.	SH. NO.
PAVEMENT MARKING DETAILS FOR 2-LANE AND 4-LANE DIVIDED HIGHWAYS	12/1/1999	PM-1	6120
EROSION CONTROL TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE B SILT BASINS)		EC-1 TEC-3	6140 6144
GUARD RAIL : "W" BEAM (WOOD POSTS)	3/1/2002	GR-1	6180
GUARD RAIL: THRIE BEAM (WOOD POSTS)	3/1/2002	GR-1A	6181
GUARD RAIL : "W" BEAM (STEEL POSTS)	3/1/2002	GR-1B	6182
GUARDRAIL: MODIFIED THRIE BEAM (STEEL POSTS)	3/1/2002	GR-1C	6183
GUARD RAIL : TYPE 1 CABLE ANCHORAGE - (FOUNDATION TUBE)	3/1/2002	GR-3	6192
GUARD RAIL: TYPE 1 CABLE ANCHORAGE (CONCRETE FOOTING)	3/1/2002	GR-3A	6193
GUARD RAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR DIVIDED HIGHWAYS	12/1/1999	GR-4	6194
GUARD RAIL: TYPICAL INSTALLATION FOR ROADSIDE HAZARDS ON DIVIDED HIGHWAYS	3/1/2002	GR-4C	6197
GUARD RAIL: MISCELLANEOUS HARDWARE	3/1/2002	GR-HW	6202
MEDIAN BARRIER: CONCRETE (PRECAST)	3/1/2002	MB-2A	6205
STANDARD DIRECTIONAL (GUIDE) SIGNS	3/1/2002	SN-1	6220
ROUTE SHIELDS & "EXIT ONLY" PANELS		SN-2	6221
STANDARD ROADSIDE SIGNS		SN-3	6222
STANDARD ROADSIDE SIGNS		SN-3A	6223
STANDARD ROADSIDE SIGNS	3/1/2002	SN-3B	6224
STANDARD ROADSIDE SIGN ASSEMBLY & INSTALLATION		SN-4	6225
STANDARD ROADSIDE SIGN ASSEMBLY & INSTALLATION		SN-4A	6226
STANDARD ROADSIDE SIGN ASSEMBLY & INSTALLATION		SN-4B	6227
TYPICAL INSTALLATION OF GROUND MOUNTED DIRECTIONAL SIGNS		SN-5	6228
TYPICAL INSTALLATION OF DELINEATORS		SN-8A	6234
TYPICAL GUARD RAIL DELINEATION		SN-8C	6236
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS)(MEDIAN LANE OR OUTSIDE LANE CLOSURE (WORK DAY ONLY)		TCP-5	6254
SHORT DURATION CLOSING OF DIVIDED HIGHWAYS		TCP-9	6258
TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO-LANE ROADS	12/1/1999	TCP-11	6260
TRAFFIC CONTROL PLAN FOR TEMPORARY CONSTRUCTION CROSSOVER(WORK DAY ONLY)		TCP-13	6262
TRAFFIC CONTROL PLAN : UNEVEN PAVEMENT DETAILS		TCP-14	6263
TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE AND 4-LANE DIVIDED HIGHWAYS		TCP-15	6264
TYPICAL GRADING TRANSITION BETWEEN CUTS & FILLS		GT-1	6272
MISCELLANEOUS DETAIL SHEET (STACKED PIPE JOINTS AND EXCAVATION AT GRADE POINTS)		MDS-1	6290
DETAILS OF PAVED FLUMES		PF-1	6291
PIPE CULVERT INSTALLATION		PI-1	6300
PIPE COLLAR - CONCRETE		PC-1	6301
JUNCTION BOX FOR PIPE CULVERTS		JB-1	6302
BRANCH CONNECTIONS		BC-1	6305

STANDARD DRAWINGS - ROADWAY SHEETS (CONT'D)

	WK. NO.	SH. NO.
MEDIAN INLETS FOR BOX CULVERTS (TYPE I AND II) FLARED END SECTION FOR CONCRETE PIPE	MI-3 FE-1	6311 6328
*** BRIDGE STANDARD DRAWINGS (1) ***		
CULVERT DRAWINGS EXTENSION DETAILS FOR LENGTHENING EXISTING BOX CULVERTS	ICX-1	7006
*** CROSS SECTIONS (13) ***		9001-9013
*** TOTAL SHEETS (126) *** SEE BRIDGE PLANS FOR BRIDGE DETAILED INDEX SHEET		

11/10/201 4:03:57:30 DI.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
<b>DETAILED INDEX</b>	
INTERSTATE 20	
<b>PROJ. NO.: BR-0020-01(192)</b> <b>COUNTY: HINDS</b>	
WORKING NUMBER	DI-2
SHEET NUMBER	3
FILENAME: DI.DGN	
DESIGN TEAM: WILLIS	CHECKED: _____ DATE: _____



