GENERAL INDEX

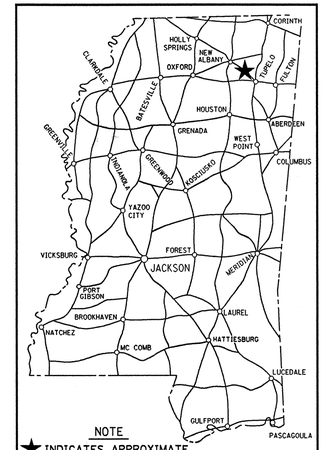
FOR DETAILED INDEX OF PLANS, SEE SHEET No. 2, 3, 4, & 5

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# PLAN AND PROFILE OF PROPOSED U.S. 78 STATE PROJECT NO. SP–0006–01(087)

| FED. ROAD REG. NO. | STATE | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| 4 | MISS. | SP–0006–01(087) | 1 |




NOTE

★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT. 34°22'26" LONG. 88°52'25"
(APPROX. MIDDLE OF PROJECT)

01-08-08
RE: 08-22-08

104969 /304000
104969 /305000

US 78 FROM THE BLUE SPRINGS INTERCHANGE TO THE SHERMAN INTERCHANGE
UNION / PONTOTOC COUNTIES

SCALES

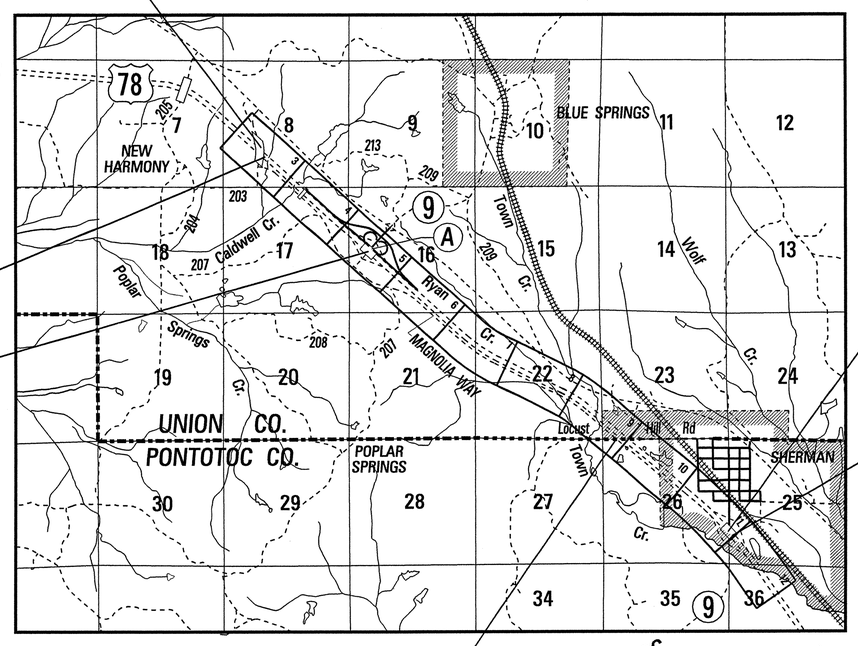
| | | |
|---|---|---|
| PLAN | | 1 IN. = 100 FT. |
| PROFILE | HOR. | 1 IN. = 100 FT. |
| | VERT. | 1 IN. = 10 FT. |
| LAYOUT MAP | | 1 IN. = 3000 FT. |

## BRIDGE STRUCTURES REQUIRED

(A) Sta. 850 + 65.44
Collector/Distributor Over SR 9
3 Span Bridge Required
1 @71', 1 @94', 1 @63'
Total Length = 230.34'

## BOX BRIDGES REQUIRED

NONE




## EQUATIONS

902 + 03.790 Bk. = 902 + 00.000 Ah.
922 + 19.840 Bk. = 922 + 27.580 Ah.
966 + 15.520 Bk. = 966 + 19.530 Ah.
985 + 85.740 Bk. = 985 + 81.000 Ah.
1063 + 50.991 Bk. = 1064 + 13.100 Ah.

## EXCEPTIONS

NONE

## LENGTH DATA

| | UNION COUNTY | | PONTOTOC COUNTY | | TOTAL PROJECT | |
|---|---|---|---|---|---|---|
| LENGTH OF ROADWAY | 19,367.10 FT. | 3.668 MI. | 8,288.87 FT. | 1.570 MI. | 27,655.97 FT. | 5.238 MI. |
| (1) LENGTH OF BRIDGES | (1) 0.00 FT. | 0.000 MI. | 0.00 FT. | 0.000 MI. | (1) 0.00 FT. | 0.000 MI. |
| LENGTH OF PROJECT (NET) | 19,367.10 FT. | 3.668 MI. | 8,288.87 FT. | 1.570 MI. | 27,655.97 FT. | 5.238 MI. |
| LENGTH OF EXCEPTIONS | 0.00 FT. | 0.000 MI. | 0.00 FT. | 0.000 MI. | 0.00 FT. | 0.000 MI. |
| LENGTH OF PROJECT (GROSS) | 19,367.10 FT. | 3.668 MI. | 8,288.87 FT. | 1.570 MI. | 27,655.97 FT. | 5.238 MI. |

(1) DOES NOT INCLUDE 230.34' (0.043 MI.) FOR THE COLLECTOR / DISTRIBUTOR BRIDGE OVER SR 9 @ BLUE SPRINGS.

DESIGN CONTROL

50 MPH = V (CD SPEED DESIGN)

ADT ( 2010 ) = 3400 : ADT ( 2030 ) = 6900

DHV = 1000 : D = 99 % T = 5 %

PERMITS ACQUIRED BY MDOT

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

| | WATERS | WETLANDS |
|---|---|---|
| NATIONWIDE #14 | Y | N |
| NATIONWIDE (OTHER)* | N | N |
| GENERAL* | N | N |
| INDIVIDUAL (404)* | N | N |

* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR

STORMWATER PERMIT [Y]

| | |
|---|---|
| Y | REQUIRED, CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA = 5 ACRES +)(NTB 586) |
| S | REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)(NTB 14) |
| N | NO STORMWATER PERMIT REQUIRED (<1 ACRE) |

APPROVED BY: JCR DATE: 08/22/08

ACCESS CONTROL

NOTES:

1. Access to and exit from this highway will be permitted only through interchange or such other points as may be established by public authority and as shown on the plans.
2. This note applies to the following station limits: Sta. 797 + 97.92 to Sta. 886 + 80.00. This project is declared by the Transportation Commission to be a Type 1 Controlled Access Facility, as defined in and subject to all restrictions shown by order of said Commission adopted on the 11th day of March, 2008 in minute book 13, page 76 and authorized under section 65–1–10(1) MCA (1972, as amended).

126

## CONVENTIONAL SYMBOLS

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

DANNY H. WALKER, REGISTERED PROFESSIONAL ENGINEER, 7983, 8-21-08, STATE OF MISSISSIPPI

FLORENCE & HUTCHESON, INC.
SURVEY & ROADWAY DESIGN

STEPHEN S. PUTNAM, REGISTERED PROFESSIONAL ENGINEER, 16968, 8/15/08, STATE OF MISSISSIPPI

FLORENCE & HUTCHESON, INC.
BRIDGE DESIGN

| REVISIONS | BY |
|---|---|
| | |

APPROVED: CHIEF ENGINEER — DATE 8/22/08

EXECUTIVE DIRECTOR — DATE 8/22/08

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED: DIVISION ADMINISTRATOR — DATE

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

ROADWAY/BRIDGE DESIGN SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLAN TITLE
8/14/2008 1:59 PM TITLE CONST.DGN

ADDENDUM

| STATE | PROJECT NO. |
|---|---|
| MISS. | SP-0006-01(087) |


| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| **TITLE SHEET (1)** | | – | 1 |
| **DETAILED INDEX & GENERAL NOTES (6)** | | | |
| DETAILED INDEX | | DI–1 | 2 |
| DETAILED INDEX | | DI–2 | 3 |
| DETAILED INDEX | | DI–3 | 4 |
| DETAILED INDEX | | DI–4 | 5 |
| GENERAL NOTES | | GN–1 | 6 |
| GENERAL NOTES | | GN–2 | 7 |
| **TYPICAL SECTION SHEETS (14)** | | | |
| US 78 | | TS–1 | 8 |
| US 78 | | TS–2 | 9 |
| US 78 | | TS–3 | 10 |
| SR 9 @ BLUE SPRINGS | | TS–4 | 11 |
| INTERCHANGE RAMPS & COLLECTOR–DISTRIBUTOR RD. | | TS–5 | 12 |
| INTERCHANGE LOOPS | | TS–6 | 13 |
| OVERLAY INTERCHANGE RAMPS | | TS–7 | 14 |
| CHANNELIZED INTERSECTION (SR9 /SR178 @ BLUE SPRINGS) | | TS–8 | 15 |
| CHANNELIZED INTERSECTIONS (INTERCHANGE RAMPS @ BLUE SPRINGS) | | TS–9 | 16 |
| MAINLINE CONCRETE US 78 AREAS | | TS–10 | 17 |
| GUARDRAIL AT BRIDGE | | TS–11 | 18 |
| DETAIL OF PAVEMENT TRANSITIONS | | TS–12 | 19 |
| MAINTENANCE OF TRAFFIC | | TS–13 | 20 |
| CHANNELIZED INTERSECTION (SR9 /SR178 @ BLUE SPRINGS) ASPHALT PAVEMENT | | TS–14 | 21 |
| **QUANTITY SHEETS (21)** | | | |
| SUMMARY OF QUANTITIES – (ROADWAY) | | SQ–1 | 22 |
| SUMMARY OF QUANTITIES – (ROADWAY) | | SQ–2 | 23 |
| SUMMARY OF QUANTITIES – (ROADWAY) | | SQ–3 | 24 |
| SUMMARY OF QUANTITIES – (ROADWAY) | | SQ–4 | 25 |
| SUMMARY OF QUANTITIES – (ROADWAY) | | SQ–5 | 26 |
| SUMMARY OF QUANTITIES – (BRIDGE ITEMS) | | SQ–6 | 27 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–1 | 28 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–2 | 29 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–3 | 30 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–4 | 31 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–5 | 32 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–6 | 33 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–7 | 34 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–8 | 35 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–9 | 36 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–10 | 37 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–11 | 38 |
| ESTIMATED QUANTITIES – (ROADWAY) | | EQ–12 | 39 |
| ESTIMATED QUANTITIES – (TRAFFIC CONTROL SIGNS) | | EQ–13 | 40 |
| ESTIMATED QUANTITIES – (BRIDGE) | | EQ–14 | 41 |
| SUMMARY OF CULVERT HYDRAULIC DESIGN | | HD–1 | 42 |

| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| **PLAN & PROFILE SHEETS (23)** | | | |
| US 78 ( B.O.P. TO STA. 807+00) | | 3 | 43 |
| US 78 (STA. 807+00 TO STA. 837+00) | | 4 | 44 |
| US 78 PLAN (STA. 837+00 TO STA. 867+00) | | 5 | 45 |
| US 78 PROFILE (STA. 837+00 TO STA. 867+00) | | 5A | 46 |
| INTERCHANGE LAYOUT SR 9 @ BLUE SPRINGS | | 5B | 47 |
| SR 9 @ BLUE SPRINGS | | 5C | 48 |
| CD ROAD (B.OP. TO STA. 806+00) | | 5D | 49 |
| CD ROAD (STA. 806+00 TO STA. 836+00) | | 5E | 50 |
| CD ROAD (STA. 836+00 TO STA. 866+00) | | 5F | 51 |
| CD ROAD (STA. 866+00 TO 890+75.85) | | 5G | 52 |
| NW RAMP @ BLUE SPRINGS | | 5H | 53 |
| NW LOOP @ BLUE SPRINGS | | 5i | 54 |
| NE RAMP @ BLUE SPRINGS | | 5J | 55 |
| NE LOOP @ BLUE SPRINGS | | 5K | 56 |
| SW RAMP @ BLUE SPRINGS | | 5L | 57 |
| SE RAMP @ BLUE SPRINGS | | 5M | 58 |
| US 78 (STA. 867+00 TO STA. 897+00) | | 6 | 59 |
| US 78 (STA. 897+00 TO STA. 927+00) | | 7 | 60 |
| US 78 (STA. 927+00 TO STA. 957+00) | | 8 | 61 |
| US 78 (STA. 957+00 TO STA. 987+00) | | 9 | 62 |
| US 78 (STA. 987+00 TO STA. 1017+00) | | 10 | 63 |
| US 78 (STA. 1017+00 TO STA. 1047+00) | | 11 | 64 |
| US 78 (STA. 1047+00 TO E.O.P.) | | 12 | 65 |
| **SPECIAL DESIGN SHEETS (88)** | | | |
| CONSTRUCTION SIGNING DETAIL | | CSD–1 | 66 |
| TRAFFIC CONTROL – GENERAL NOTES SPECIAL DETAILS | | TC–1 | 67 |
| TRAFFIC CONTROL – PHASE 1 | | TC–2 | 68 |
| TRAFFIC CONTROL – PHASE 1 | | TC–3 | 69 |
| TRAFFIC CONTROL – PHASE 1 | | TC–4 | 70 |
| TRAFFIC CONTROL – PHASE 1A & 1B | | TC–5 | 71 |
| TRAFFIC CONTROL – PHASE 1C & 1D | | TC–6 | 72 |
| TRAFFIC CONTROL – PHASE 2 & 2A | | TC–7 | 73 |
| TRAFFIC CONTROL – PHASE 2 | | TC–8 | 74 |
| TRAFFIC CONTROL – PHASE 2 | | TC–9 | 75 |
| TRAFFIC CONTROL – PHASE 3 & 4A THRU 4C | | TC–10 | 76 |
| TRAFFIC CONTROL – DRUM PLACEMENT AND SHOULDER CLOSURE DETAILS | | TC–11 | 77 |
| SPEEDING FINES DOUBLED DETAIL | | SSD–1 | 78 |


| FLORENCE & HUTCHESON, INC. | | |
|---|---|---|
| PS & E PLANS – 8 /22 /08 | | |
| FMS CONST. No. 104969 / 304000 & 104969 /305000 | | |
| PLAN REVISIONS | | |
| | REVISED SHEET NO. | BY |
| 10–10–08 | 11, 15, 17, 21, 22, 23, 24, 25, 28, 29, 30, 32, 33, 39, 42, 47, 48, 53, 55, 66, | F&H |
| | 67, 68, 69, 71, 72, 74, 76, 79, 86, 88, 89, 90, 91, 93, 94, 95, 96, 97, 100.02, | |
| | 100.06, 997, 998, 999, 1041, 1042 | |

126

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# DETAILED INDEX

**PROJECT NO. SP–0006–01(087)**
**COUNTY : UNION / PONTOTOC**

WORKING NUMBER: DI–1

SHEET NUMBER: 2

FILENAME: di.dgn
DESIGN TEAM F&H, Inc. CHECKED DATE

REVISION | BY | DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

10/16/2008 11:42AM DI.DGN

| STATE | PROJECT NO. |
|---|---|
| MISS. | SP-0006-01(087) |

## SPECIAL DESIGN SHEETS (CONT.)

| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| INTERSECTION DETAIL – NW & NE RAMP @ SR 9 & SR 178 @ SR 9 | | ID–1 | 79 |
| FORM GRADE – US 78 & CD ROAD | | FG–1 | 80 |
| FORM GRADE – CD ROAD & NW RAMP | | FG–2 | 81 |
| FORM GRADE – CD ROAD & NW LOOP / NE LOOP SR 9 @ BLUE SPRINGS & NW LOOP / NE LOOP | | FG–3 | 82 |
| FORM GRADE – CD ROAD & NE RAMP | | FG–4 | 83 |
| FORM GRADE – US 78 & CD ROAD | | FG–5 | 84 |
| FORM GRADE – SR 9 @ BLUE SPRINGS & NW RAMP / NE RAMP | | FG–6 | 85 |
| FORM GRADE – SR 9 @ BLUE SPRINGS & EXISTING SR 178 | | FG–7 | 86 |
| FORM GRADE – US 78 & SW RAMP | | FG–8 | 87 |
| PAVEMENT MARKINGS – US 78 (B.O.P. To Sta. 798+50) | | PMD–1 | 88 |
| PAVEMENT MARKINGS – US 78 (Sta. 798+50 To Sta. 810+00) | | PMD–2 | 89 |
| PAVEMENT MARKINGS – US 78 (Sta. 810+00 To Sta. 822 +50) | | PMD–3 | 90 |
| PAVEMENT MARKINGS – US 78 (Sta. 822 +50 To Sta. 834+50) | | PMD–4 | 91 |
| PAVEMENT MARKINGS – US 78 (Sta. 834+50 To Sta. 846+00) | | PMD–5 | 92 |
| PAVEMENT MARKINGS – US 78 (Sta. 846+00 To Sta. 858+00) | | PMD–6 | 93 |
| PAVEMENT MARKINGS – Blue Springs Road (Sta. 10+00 To Sta. 18+00) | | PMD–6a | 94 |
| PAVEMENT MARKINGS – Blue Springs Road (Sta. 18+00 To Sta.. 26+50) | | PMD–6b | 95 |
| PAVEMENT MARKINGS – Blue Springs Road (Sta. 26+50 To Sta. 37+00) | | PMD–6c | 96 |
| PAVEMENT MARKINGS – NW Ramp (Sta. 840+00 To Sta. 852+00) , SW Ramp (Sta. 143+00 to Blue Springs Rd.) | | PMD–6d | 97 |
| PAVEMENT MARKINGS – CD Road (Sta. 846+00 To Sta. 858+00) & N.W. LOOP & N.E. LOOP | | PMD–6e | 98 |
| PAVEMENT MARKINGS – NE Ramp (Sta. 851+50 To Sta. 863+00) & SE Ramp (Blue Springs Rd. To Sta. 17+00) | | PMD–6f | 99 |
| PAVEMENT MARKINGS – US 78 (Sta. 858+00 To Sta. 869+00) | | PMD–7 | 100 |
| PAVEMENT MARKINGS – US 78 (Sta. 869+00 To Sta. 881+00) | | PMD–8 | 100.01 |
| PAVEMENT MARKINGS – US 78 (Sta. 881+00 To Sta. 893+00) | | PMD–9 | 100.02 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (B.O.P. TO STA. 808+00) | | PSP–1 | 100.03 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (STA. 808+00 TO STA. 838+00) | | PSP–2 | 100.04 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (STA. 838+00 TO STA. 868+00) SR 9 @ BLUE SPRINGS (STA. 10+00 TO STA. 20+00) | | PSP–3 | 100.05 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (STA. 838+00 TO STA. 868+00) SR 9 @ BLUE SPRINGS (STA. 20+00 TO STA. 33+50) | | PSP–3a | 100.06 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (STA. 868+00 TO STA. 898+00) | | PSP–4 | 100.07 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (STA. 898+00 TO STA. 928+00) | | PSP–5 | 100.08 |
| PERMANENT SIGNING & DELINEATOR PLANS – US 78 (STA. 928+00 TO STA. 958+00) | | PSP–6 | 100.09 |
| OVERHEAD SIGN ASSEMBLY – NO. 1 | | SA–1 | 100.10 |
| OVERHEAD SIGN ASSEMBLY – NO. 2 | | SA–2 | 100.11 |
| DIRECTIONAL SIGN DETAILS | | DSD–1 | 100.12 |
| DIRECTIONAL SIGN DETAILS | | DSD–2 | 100.13 |
| TRAFFIC SIGNAL INSTALLATION – SIGNAL LAYOUT – SR 9 AT SW/SE RAMPS | | TSI–1 | 100.14 |
| TRAFFIC SIGNAL INSTALLATION – WIRING DIAGRAM – SR 9 AT SW/SE RAMPS | | TSI–2 | 100.15 |
| TRAFFIC SIGNAL INSTALLATION – SIGNAL LAYOUT – SR 9 AT TOYOTA DR. | | TSI–3 | 100.16 |
| TRAFFIC SIGNAL INSTALLATION – WIRING DIAGRAM – SR 9 AT TOYOTA DR. | | TSI–4 | 100.17 |
| DETAIL OF TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS AND GENERAL NOTES | | TSD–1 | 100.18 |
| PULL BOX AND CONDUIT TRENCHING FOR TRAFFIC SIGNAL INSTALLATION | | TSD–2 | 100.19 |
| TYPICAL DETAILS OF CONTROLLER CABINET MOUNTINGS, TYPE 1 POLE ATTACHEMNTS AND MISCELLANEOUS DETAILS | | TSD–3 | 100.20 |
| MAST ARM AND PEDESTAL POLE DETAILS FOR TRAFFIC SIGNAL INSTALLATION | | TSD–4 | 100.21 |
| LOOP DETECTOR DETAILS FOR TRAFFIC SIGNAL INSTALLATION | | TSD–5 | 100.22 |
| FENCE LAYOUT – US 78 (B.O.P. TO STA. 811+00 ) | | FNC–1 | 100.23 |
| FENCE LAYOUT – US 78 (STA. 811+00 TO STA. 840+00) | | FNC–2 | 100.24 |
| FENCE LAYOUT – US 78 (STA. 840+00 TO STA. 871+00) | | FNC–3 | 100.25 |
| FENCE LAYOUT – US 78 (STA. 871+00 TO STA. 901+00) | | FNC–4 | 100.26 |
| FENCE LAYOUT – US 78 (STA. 901+00 TO STA. 930+00) | | FNC–5 | 100.27 |
| FENCE LAYOUT – US 78 (STA. 930+00 TO STA. 959+00) | | FNC–6 | 100.28 |
| FENCE LAYOUT – US 78 (STA. 959+00 TO STA. 988+00) | | FNC–7 | 100.29 |
| FENCE LAYOUT – US 78 (STA. 988+00 TO STA. 1018+00) | | FNC–8 | 100.30 |
| FENCE LAYOUT – US 78 (STA. 1018+00 TO STA. 1048+00) | | FNC–9 | 100.31 |
| FENCE LAYOUT – SR 9 @ SHERMAN | | FNC–10 | 100.32 |

## SPECIAL DESIGN SHEETS (CONT.)

| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| VEGETATION SCHEDULE – GRADE, DRAIN, & PAVING | | VS–1 | 100.33 |
| SOURCE OF SURVEY CONTROL | | SC–1 | 100.34 |
| SOURCE OF SURVEY CONTROL | | SC–2 | 100.35 |
| SOURCE OF SURVEY CONTROL | | SC–3 | 100.36 |
| RIGHT OF WAY MARKER DETAIL | | RW–1 | 100.37 |
| RIGHT OF WAY MARKER COORDINATES | | RWC | 100.38 |
| MISCELLANEOUS DETAILS – EDGE DRAIN DETAIL, CONCRETE APRON AND RODENT SCREEN | | MD–1 | 100.39 |
| MISCELLANEOUS DETAILS – EDGE DRAIN DETAIL FOR CLEANOUTS AND OUTLETS | | MD–2 | 100.40 |
| MISCELLANEOUS DETAILS – TYPICAL SECTION – UNDERDRAINS, SPECIAL DESIGN FOR INSTALLATION OF MEDIAN DRAINS WITH DOWNSPOUTS | | MD–3 | 100.41 |
| MISCELLANEOUS DETAILS – TYPICAL TEMPORARY EROISION CONTROL MEASURES (TYPE "D" SILT BASIN) RIP RAP DIKE SILT BASIN | | MD–4 | 100.42 |
| MISCELLANEOUS DETAILS – TYPICAL BENCH SECTION | | MD–5 | 100.43 |
| MISCELLANEOUS DETAILS – BOX CULVERT BENDING DETAIL HORIZONTAL AND VERTICAL | | MD–6 | 100.44 |
| MISCELLANEOUS DETAILS – MISCELLANEOUS CONSTRUCTION DETAILS | | MD–7 | 100.45 |
| MISCELLANEOUS DETAILS – DETAILS OF RUMBLE STRIPS (GROUND–IN) | | MD–8 | 100.46 |
| GUARDRAIL : BRIDGE END SECTION TYPE "I" (WOOD POSTS) | | SDGR–2F | 100.47 |
| GUARDRAIL : BRIDGE END SECTION TYPE "I" (STEEL POSTS) | | SDGR–2G | 100.48 |
| GUARDRAIL : RUB RAIL HARDWARE SHEET | | SDGR–RR | 100.49 |
| 32" BRIDGE END PAVEMENT RAIL | | BEPR–32 | 100.50 |
| 42" BRIDGE END PAVEMENT RAIL | | BEPR–42 | 100.51 |
| BRIDGE END PAVEMENT WITH RAIL | | BE–1A | 100.52 |
| TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (4–LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (EXTENDED PERIOD) | | SDTCP–4 | 100.53 |



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# DETAILED INDEX

REVISION | BY | DATE

**PROJECT NO. SP–0006–01(087)**
**COUNTY : UNION / PONTOTOC**

WORKING NUMBER: DI–2

FILENAME: di.dgn
DESIGN TEAM F&H, Inc. CHECKED DATE

SHEET NUMBER: 3

PLAN: ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

08/15/2008 08:37:50 DI.DGN

| STATE | PROJECT NO. |
|---|---|
| MISS. | SP-0006-01(087) |

## STANDARD DRAWINGS – ROADWAY SHEETS (74)


| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| **PAVEMENT** | | | |
| BRIDGE END PAVEMENT | | BE–1 | 107 |
| **PAVEMENT MARKING** | | | |
| PAVEMENT MARKING DETAILS FOR 2 LANE & 4–LANE DIVIDED ROADWAYS | 12–01–99 | PM–1 | 120 |
| PAVEMENT MARKING DETAILS FOR 4–LANE & 5–LANE UNDIVIDED ROADWAYS | 12–01–99 | PM–2 | 121 |
| PAVEMENT MARKING DETAILS FOR INTERCHANGE ENTRANCE RAMPS (PARALLEL AND TAPER) | 12–01–99 | PM–3 | 122 |
| PAVEMENT MARKING DETAILS FOR INTERCHANGE EXIT RAMPS (PARALLEL AND TAPER) | 12–01–99 | PM–4 | 123 |
| PAVEMENT MARKING LEGEND DETAILS | | PM–6 | 125 |
| **EROSION CONTROL** | | | |
| EROSION CONTROL | | EC–1 | 140 |
| TYPICAL TEMPORARY EROSION CONTROL MEASURES (SILT FENCE, HAY BALES, & BRUSH BARRIER) | | TEC–1 | 142 |
| TYPICAL TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND TYPE A SILT BASIN) | | TEC–2 | 143 |
| DETAILS OF TYPICAL DITCH TREATMENT | | DT–1 | 145 |
| **FENCING** | | | |
| FENCE: WOVEN WIRE TIMBER POSTS | | WW–1 | 160 |
| FENCE: WOVEN WIRE CONCRETE POSTS | | WW–2 | 161 |
| FENCE : TYPICAL INSTALLATION AT DRAINAGE STRUCTURES | | FI–2 | 165 |
| FENCE : TYPICAL INSTALLATION AT DITCH CROSSINGS & FENCE ENDINGS | | FI–3 | 166 |
| **PROTECTIVE BARRIERS** | | | |
| GUARDRAIL: "W" BEAM (WOOD POSTS) | 3–01–02 | GR–1 | 180 |
| GUARDRAIL: THRIE BEAM (WOOD POSTS) | 3–01–02 | GR–1A | 181 |
| GUARDRAIL: "W" BEAM (STEEL POSTS) | 3–01–02 | GR–1B | 182 |
| GUARDRAIL: MODIFIED THRIE BEAM (STEEL POSTS) | 3–01–02 | GR–1C | 183 |
| GUARDRAIL : TY 1 CABLE ANCHORAGE (CONCRETE FOOTING) | 3–01–02 | GR–3 | 192 |
| GUARDRAIL : TY 1 CABLE ANCHORAGE (FOUNDATION TUBE) | 3–01–02 | GR–3A | 193 |
| GUARDRAIL : TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR DIVIDED HIGHWAY | 12–01–99 | GR–4 | 194 |
| GUARDRAIL : MISCELLANEOUS HARDWARE | 3–01–02 | GR–HW | 202 |
| MEDIAN BARRIER : CONCRETE (CAST IN PLACE) | | MB–2 | 204 |
| MEDIAN BARRIER : CONCRETE (PRECAST) | 3–01–02 | MB–2A | 205 |
| **SIGNING** | | | |
| STANDARD DIRECTIONAL (GUIDE) SIGNS | 3–01–02 | SN–1 | 220 |
| ROUTE SHIELDS AND "EXIT ONLY" PANELS | | SN–2 | 221 |
| STANDARD ROADSIDE SIGNS | | SN–3 | 222 |
| STANDARD ROADSIDE SIGNS | | SN–3A | 223 |
| STANDARD ROADSIDE SIGNS | 3–01–02 | SN–3B | 224 |
| STANDARD ROADSIDE SIGN ASSEMBLY INSTALLATION | | SN–4 | 225 |
| STANDARD ROADSIDE SIGN ASSEMBLY INSTALLATION | | SN–4A | 226 |
| STANDARD ROADSIDE SIGN ASSEMBLY INSTALLATION | | SN–4B | 227 |
| TYPICAL INSTALLATION OF GROUND MOUNTED DIRECTIONAL SIGNS | | SN–5 | 228 |
| BREAKAWAY SIGN SUPPORTS | | SN–6 | 229 |
| BREAKAWAY SIGN SUPPORTS | | SN–6A | 230 |
| BREAKAWAY SIGN SUPPORTS | | SN–6B | 231 |
| SIGN FACE CONST. & ATTACHMENT OF GROUND MOUNTED DIRECTIONAL SIGNS TO STEEL BEAMS (EXTRUDED ALUMINUM PANELS) | 3–01–02 | SN–7 | 232 |
| TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS | | SN–8 | 233 |
| TYPICAL INSTALLATION OF DELINEATORS | | SN–8A | 234 |
| TYPICAL CROSSOVER DELINEATION | 12–01–99 | SN–8B | 235 |
| TYPICAL GUARDRAIL DELINEATION | 3–01–02 | SN–8C | 236 |


## STANDARD DRAWINGS – ROADWAY SHEETS (CONT.)


| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| **TRAFFIC CONTROL PLANS** | | | |
| TRAFFIC CONTROL PLAN WITH FLAGGER (ONE–LANE CLOSURE OF TWO–WAY TRAFFIC) | | TCP–1 | 250 |
| TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (4–LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY) | | TCP–5 | 254 |
| SHORT DURATION CLOSING OF TWO–LANE TWO–WAY HIGHWAYS | | TCP–8 | 257 |
| HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS | | TCP–10 | 259 |
| TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO–LANE ROADS | 12–01–99 | TCP–11 | 260 |
| DETAILS OF OUTSIDE LANE CLOSURE AT EXIT AND ENTRANCE RAMPS | | TCP–12 | 261 |
| TRAFFIC CONTROL PLANS: UNEVEN PAVEMENT DETAILS | | TCP–14 | 263 |
| TEMPORARY STRIPING FOR TRAFFIC CONTROL 2–LANE AND 4–LANE DIVIDED HIGHWAYS | | TCP–15 | 264 |
| **MISCELLANEOUS ROADWAY DETAILS** | | | |
| TYPICAL GRADING TRANSITION BETWEEN CUTS AND FILLS | | GT–1 | 272 |
| SIGHT FLARE | 12–01–99 | SF–1 | 273 |
| SUPERELEVATION TRANSITION CASE 1 ROTATION ABOUT CENTERLINE (2% NORMAL SUBGRADE) | 3–01–02 | SE–2A | 276 |
| INTERCHANGE DESIGN FOR HIGH – SPEED TARERED EXIT RAMP | | IR–1 | 283 |
| INTERCHANGE DESIGN FOR LOOP ENTRANCE RAMP | | IR–2 | 285 |
| INTERCHANGE DESIGN FOR HIGH – SPEED PARALLEL ENTRANCE RAMP | 3–01–02 | IR–2A | 286 |
| DRIVEWAYS, CURB & GUTTER & SIDEWALK | | SD–1 | 287 |
| MISCELLANEOUS DETAIL 1. STACKED PIPE JOINTS 2. EXCAVATION AT GRADE POINTS | | MDS–1 | 290 |
| DETAILS OF PAVED FLUMES | | PF–1 | 291 |
| **DRAINAGE** | | | |
| PIPE CULVERT INSTALLATION | | PI–1 | 300 |
| CONCRETE PIPE COLLAR | | PC–1 | 301 |
| JUNCTION BOX FOR PIPE CULVERTS | | JB–1 | 302 |
| TYPE I MEDIAN INLET (24" PIPE AND UNDER) | 3–01–02 | MI–1 | 306 |
| TYPE I MEDIAN INLET (29"– 51" PIPE) | | MI–1A | 307 |
| DETAILS OF GRATES FOR MEDIAN INLETS | | IG–1 | 314 |
| DETAILS OF GRATES FOR GUTTER INLETS | | IG–2 | 315 |
| GUTTER INLET FOR TYPE 2 CURB (OUTLET 90° TO ROADWAY) | | GI–1 | 316 |
| GUTTER INLET FOR TYPE 2 CURB STORM SEWER ALONG ROAD | | GI–1A | 317 |
| PAVED INLET APRON AND MEDIAN DITCH PLUG | | PA–1 | 318 |




MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# DETAILED INDEX

REVISION | BY | DATE

**PROJECT NO. SP–0006–01(087)**
**COUNTY : UNION / PONTOTOC**

WORKING NUMBER: DI–3
SHEET NUMBER: 4

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| MISS. | SP-0006-01(087) |

## STANDARD DRAWINGS – ROADWAY SHEETS (CONT.)

### DRAINAGE (CONT.)

| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| STORM SEWER INLET TYPE SS–2 | | SS–2 | 322 |
| SMALL ANIMAL GUARD AND UNDERDRAIN MARKER | 3–01–02 | SAG–1 | 327 |
| FLARED END SECTION FOR CONCRETE PIPE | | FE–1 | 328 |
| FLARED END SECTION FOR CONCRETE ARCH PIPE | | FE–1A | 329 |
| DETAILS OF NORMAL UNDERDRAIN AND STORM DRAIN USED AS UNDERDRAINS | | UD–1 | 331 |
| NORMAL UNDERDRAIN TYPE II | | UD–2 | 332 |

## STANDARD DRAWINGS – BRIDGE SHEETS (14)

| DESCRIPTION OF SHEET | WKG. NO. | SH. NO. |
|---|---|---|
| BASIC CULVERT DRAWING – BARREL JOINT LOCATIONS – NORMAL AND SKEWED CULVERTS GROUP I DIAGRAMS | IBJL–1 | 366.1 |
| BASIC CULVERT DRAWING – BARREL JOINT LOCATIONS – NORMAL AND SKEWED CULVERTS GROUP II DIAGRAMS | IBJL–1 | 366.2 |
| BASIC CULVERT DRAWING – BARREL JOINT LOCATIONS – NORMAL AND SKEWED CULVERTS GROUP III DIAGRAMS | IBJL–1 | 366.3 |
| COLLAR DETAILS FOR BOX STRUCTURES | ICJ–1 | 367 |
| CULVERT DRAWING – EXTENSION DETAILS – FOR LENGTHENING EXISTING BOX CULVERTS | ICX–1 | 369 |
| BASIC CULVERT DRAWING – SINGLE CELL – HEIGHT 8 FT. – SPANS 8 – 20 FT. | IBS–8–2W | 371.1 |
| BASIC CULVERT DRAWING – SINGLE CELL – HEIGHT 8 FT. – SPANS 8 – 20 FT. | IBS–8–2W | 371.2 |
| WINGS WITH 3:1 SLOPE FOR BASIC CULVERT DRAWING – SINGLE CELL – HEIGHTS 6 – 12 FT. – SPANS 6 – 24 FT. | IWS–3 | 374 |
| WINGS WITH 3:1 SLOPE FOR BASIC CULVERT DRAWING – SINGLE CELL – HEIGHTS 6 – 12 FT. – SPANS 6 – 24 FT. | IWS–3 | 375.1 |
| WINGS WITH 3:1 SLOPE FOR BASIC CULVERT DRAWING – SINGLE CELL – HEIGHTS 6 – 12 FT. – SPANS 6 – 24 FT. | IWS–3 | 375.2 |
| BOX CULVERT DRAWING – IBS CULVERTS MODIFIED FOR HIGH COVER – WINGS WITH 3:1 SLOPE | IBSM–3W | 380 |
| BOX CULVERT DRAWING – IBS CULVERTS MODIFIED FOR HIGH COVER – WINGS WITH 3:1 SLOPE | IBSM–3W | 381 |
| BOX CULVERT DRAWING – 45 DEG. SKEW DETAILS – WINGS WITH 3:1 SLOPE – SINGLE & DOUBLE CELL CULVERTS | ISK–45–3W | 403.1 |
| BOX CULVERT DRAWING – 45 DEG. SKEW DETAILS – WINGS WITH 3:1 SLOPE – SINGLE & DOUBLE CELL CULVERTS | ISK–45–3W | 403.2 |

## SPECIAL DESIGN SHEETS – BRIDGE "A" AT 850+65.44 COLLECTOR / DISTRIBUTOR RD OVER SR 9 (17)

| DESCRIPTION OF SHEET | REVISION DATE | WKG. NO. | SH. NO. |
|---|---|---|---|
| OVERPASS AT STA. 850+65.44 COLLECTOR DISTRIBUTOR RD. OVER S.R. 9 | | A1 OF 17 | 466 |
| OVERPASS AT STA. 850+65.44 COLLECTOR DISTRIBUTOR RD. OVER S.R. 9 | | A2 OF 17 | 467 |
| GENERALIZED SOIL PROFILE | | A3 OF 17 | 468 |
| END BENT NO. 1 DETAILS | | A4 OF 17 | 469 |
| END BENT NO. 4 DETAILS | | A5 OF 17 | 470 |
| END BENT DETAILS | | A6 OF 17 | 471 |
| INT. BENT NO. 2 & 3 | | A7 OF 17 | 472 |
| INT. BENT DETAILS | | A8 OF 17 | 473 |
| SPAN DETAILS | | A9 OF 17 | 474 |
| 71 FT. SPAN DETAILS | | A10 OF 17 | 475 |
| 94 FT. SPAN DETAILS | | A11 OF 17 | 476 |
| 63 FT. SPAN DETAILS | | A12 OF 17 | 477 |
| 2'–8" RAILING DETAILS | | A13 OF 17 | 478 |
| MISC. SPAN DETAILS | | A14 OF 17 | 479 |
| 71 FT. BEAM DETAILS (TYPE IV) | | A15 OF 17 | 480 |
| 94 FT. BEAM DETAILS (TYPE IV) | | A16 OF 17 | 481 |
| 63 FT. BEAM DETAILS (TYPE IV) | | A17 OF 17 | 482 |

## CROSS SECTIONS (147)

| | |
|---|---|
| US 78 | 901 – 935 |
| CD ROAD | 936 – 971 |
| NW RAMP | 972 – 982 |
| NW LOOP | 983 – 992 |
| SR9 @ BLUE SPRINGS | 993 – 999 |
| NE RAMP | 1000 – 1010 |
| NE LOOP | 1011 – 1020 |
| SW RAMP | 1021 – 1028 |
| SE RAMP | 1029 – 1032 |
| CULVERT DRAINAGE SECTIONS | 1033 – 1047 |

**TOTAL SHEETS** 405



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# DETAILED INDEX

**PROJECT NO. SP–0006–01(087)**
**COUNTY : UNION / PONTOTOC**

WORKING NUMBER DI–4

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# GENERAL NOTES

1. FOR A LIST OF PUBLIC UTILITY OWNERS, SEE WK. SH. 3. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF SURVEY. THE ENGINEER CANNOT 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.

2. THE LOCATION AND SPACING OF SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS. ALL SIGNS SHALL BE SPACED A MINIMUM OF 250 FEET APART WHERE POSSIBLE. THE ACTUAL LOCATION OF SIGNS WILL BE AS DIRECTED BY THE ENGINEER.

3. A SOIL PROFILE HAS BEEN PREPARED FOR THIS PROJECT USING SAMPLES TAKEN FROM HOLES AT THE LOCATIONS INDICATED IN THE TEST REPORTS. THIS SOIL PROFILE IS ON FILE IN THE DISTRICT AND CENTRAL CONSTRUCTION OFFICES AND IS AVAILABLE FOR EXAMINATION. THE DEPARTMENT DOES NOT GUARANTEE THAT THE MATERIALS AS SHOWN IN THE REPORTS ARE NECESSARILY TO BE FOUND OUTSIDE THE TEST HOLES.

4. THE 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.

5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC., FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHALL BE EXERCISED IN UNDERCUT AREAS AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS, AS DIRECTED BY THE ENGINEER. 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. EROSION CHECKS: QUANTITY ESTIMATED ON THE BASIS OF 4 BALES PER EVERY 25 TO 100 LIN. FT. OF DITCH AND 4 BALES AT EACH PIPE OUTLET. THIS IS REQUIRED AS A TEMPORARY EROSION CONTROL MEASURE TO MINIMIZE SILTATION UNTIL PERMANENT MEASURES ARE INSTALLED. THE ENGINEER WILL DETERMINE THE ACTUAL LOCATION AND NUMBER OF BALES DURING THE CONSTRUCTION OF THE PROJECT. (SEE WK. NO. TEC–1 FOR DETAILS.)

7. VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC., SHALL BE BACKFILLED WITH GRANULAR MATERIAL OR TOPSOIL AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE BACKFILL MATERIAL IS NOT A SEPARATE PAY ITEM.

8. WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE VICINITY OF TRAFFIC. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE ANY 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 STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY, SHALL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS. THE DESIGN SHALL BE PROVIDED BY A LICENSED P.E. AND SUBMITTED TO MDOT FOR APPROVAL.

9. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED IN THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.

10. 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). A CONCRETE COLLAR (WK. NO. PC–1) IS REQ'D. ON ALL PIPE EXTENSIONS.

11. PRIOR TO POURING PAVED ISLANDS THE TRAFFIC ENGINEERING DIVISION SHALL BE NOTIFIED SO THAT SIGNS REQUIRED IN ISLANDS CAN BE LOCATED.

12. ALL EXISTING CULVERT PIPES OR OTHER OBSTRUCTIONS WHICH CONFLICT WITH THE REQUIRED CONSTRUCTION SHALL BE REMOVED. EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE, SHALL BE PLUGGED USING 631 A FLOWABLE FILL.

13. 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.

14. 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.

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

**PROJECT NO. SP–0006–01(087)**
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WORKING NUMBER: GN–1

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# GENERAL NOTES – CONTINUED

(15) ALL EXCAVATION FOR THE SIGN POSTS OR FOOTINGS IS TO BE INCLUDED IN THE COST FOR OTHER ITEMS BID FOR CONSTRUCTION.

(16) ALL POST, PIPE, AND I–BEAM LENGTHS ARE ESTIMATED. CONTRACTOR IS RESPONSIBLE FOR PERFORMING FIELD SURVEY TO DETERMINE THE EXACT LENGTH REQUIRED.

(17) DIRECT APPLIED LEGEND, BORDERS, AND SHIELD ARE TO BE USED ON ALL GUIDE SIGNS. RIVETS WILL NOT BE ALLOWED.

(18) ERECTION DATES ARE TO BE LEGIBLY WRITTEN ON THE BACK OF ALL SIGNS WITH PERMANENT MARKER.

(19) EXISTING GROUND MOUNTED SIGNS DESIGNATED IN THE PLANS TO BE RELOCATED, SHALL BE ERECTED ON NEW SUPPORTS. ANY SIGN PANELS THAT BECOME DAMAGED PRIOR TO OR DURING RELOCATION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. ALL EXISTING SIGNS AND SUPPORTS REMOVED AND NOT USED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

(20) SEE WK. NO. PSP–1 FOR ADDITIONAL GENERAL NOTES REGARDING PERMANENT SIGNS AND WK. NO. TC–1 FOR GENERAL NOTES REGARDING TRAFFIC CONTROL.

(21) ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL DEVICES ARE TO CONFORM TO THE MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) (2003 EDITION AND ALL SUBSEQUENT REVISIONS).

(22) ALL POLES, PULL BOXES, CONTROLLERS AND PAVEMENT MARKINGS SHALL BE FIELD LOCATED BY THE ENGINEER AND THE CONTRACTOR AT THE NEAREST PRACTICAL LOCATION INDICATED ON THE PLAN SHEETS.

(23) ALL RAISED OBJECTS TO BE PLACED A MINIMUM OF 2.5 FT. BEHIND FACE OF CURB. NEW TRAFFIC SIGNAL POLES TO BE PLACED A MINIMUM OF 6 FT. BEHIND FACE OF CURB EXCEPT WHERE IN CONFLICT WITH UTILITIES OR RIGHT–OF–WAY.

(24) ALL SIGNAL MAST ARMS AND POLES SHALL BE GALVANIZED STEEL. PRIOR TO ORDERING THE POLES, THE CONTRACTOR WILL VERIFY THE MAST ARM POLE LOCATIONS TO ENSURE THERE ARE NO CONFLICTS WITH UTILITIES OR OTHER ITEMS.

(25) SIGNAL CONTROLLER TIMINGS ARE TO BE PROVIDED BY THE ENGINEER.

(26) SPECIFICATIONS FOR SIGNAL SHALL BE THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION.

(27) TRAFFIC SIGNAL CABLE IN MAST ARMS TO BE MEASURED AND PAID FOR AS ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20–1, AWG # 14, 7 CONDUCTOR, (PAY ITEM 666–B).

(28) SEE WK. NO. TSD–1 FOR ADDITIONAL GENERAL NOTES REGARDING TRAFFIC SIGNALS.

(29) THE CONTRACTOR SHALL MAKE THE APPLICATION FOR POWER SERVICE, COORDINATING WITH UTILITY OFFICIALS, IN ADVANCE OF REQUIRING THE ELECTRICAL SERVICE AND INCIDENTALS NECESSARY FOR SUPPLY OF POWER. COST SHALL BE ABSORBED IN OTHER ITEMS OF CONSTRUCTION.

(30) REMOVAL OF CONCRETE ISLAND PAVEMENT SHALL BE INCLUDED IN PAY ITEM 202–B.

(31) SAW CUTS ARE REQUIRED FOR CONCRETE REMOVAL.

(32) WHERE MILLING OF THE ROADWAY LANE IS REQUIRED, THE CONTRACTOR SHALL PROVIDE OUTLETS IN THE EXISTING SHOULDERS AT SUFFICIENT INTERVALS TO PREVENT POOLING OR STANDING WATER.

(33) THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM MEASURMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR WILL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION.

(34) ALL REGRADING NEEDED PRIOR TO CONSTRUCTING THE BRIDGE SLOPE PAVING AT THE BLUE SPRINGS INTERCHANGE, SHALL BE ABSORBED IN THE COST OF ITEM 815–D CONCRETE SLOPE PAVING.

(35) FIBER BOARD SHALL BE PLACED AROUND ALL EXISTING AND PROPOSED BRIDGE PIERS PRIOR TO THE PLACEMENT OF THE CONCRETE SLOPE PAVING AT THE BLUE SPRINGS INTERCHANGE.

(36) SITE GRADING AT THE BLUE SPRINGS INTERCHANGE SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER. ALL COSTS IS TO BE ABSORBED IN OTHER BID ITEMS.

(37) TRAFFIC SIGNAL HEADS SHALL BE BLACK IN COLOR.

(38) TRAFFIC SIGNAL POLES SHALL BE DESIGNED IN ACCORDANCE WITH THE 2001 AASHTO SPECIFICATION. 90 M.P.H. SHALL BE USED FOR THE DESIGN WIND SPEED. ICE LOADS WILL BE CONSIDERED. GALLOPING AND TRUCK GUSTS SHALL NOT BE CONSIDERED. FATIGUE CATEGORY IS II. DESIGN LIFE IS 50 YEARS.

(38) THE FENCE LOCATION AS SHOWN ON THE PLANS IS APPROXIMATE, THE ACTUAL LOCATION WILL BE DETERMINED BY THE ENGINEER PRIOR TO CONSTRUCTING THE FENCE.

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

**PROJECT NO. SP–0006–01(087)**
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