DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	154	788
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19907
JOSIAH F. BELVEAL
ROADWAY DESIGN

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20119
VIVEK SINGH
HYDRAULIC DESIGN AND DRAINAGE STRUCTURES

HORIZ. SCALE IN FEET: 0 100 200 300 400 — 1"=200'

VERT. SCALE IN FEET: 0 20 40 60 80 — 1"=40'

I-49-1
P.I.= 136+82.71
Δ = 58°15'59.6" LT.
D = 1°15'00.0"
T = 2554.72'
L = 4661.33'
P.C. = 111+27.98
P.T. = 157.89+31
e = 0.046 '/'
Ls = 350'

I-49-NBML-1
P.I.= 144+90.54
Δ = 32°04'00.2" LT.
D = 1°18'00.0"
T = 1266.57'
L = 2466.67'
P.C. = 132+23.97
P.T. = 156+90.64

I-49-SBML-1
P.I.= 146+33.31
Δ = 31°00'13.3" LT.
D = 1°12'00.0"
T = 1324.29'
L = 2583.64'
P.C. = 133+09.02
P.T. = 158+92.66

MATCH LINE C.L. I-49 STA. 135+00

MATCH LINE C.L. I-49 STA. 159+00

H. ST.

A06 12:1

7' cut

4' cut

H ST. ROAD CLOSED AT STA. 145+69.46, 179.71' LT. SEE ROAD CLOSED SPECIAL DETAIL

EXISTING 24" PVC SANITARY SEWER WITH 36" PVC ENCASEMENT

BEGIN CONCRETE BARRIER WALL STA. 150+84.38 15.68' LT.

100 YEAR FLOODPLAIN BOUNDARY

100 YEAR FLOODPLAIN

END MEDIAN TAPER

P.T. 157+89.31

P.T. 156+90.64

N0°34'11"E

EXIST. ROW & COA

CONST. LIMITS

I-49 S.B.

I-49 N.B.

B.L. I-49 SBML

C.L. I-49

B.L. I-49 NBML

I-49-1

I-49 SBML-1

I-49 NBML-1

END WRSF STA. 151+69.59 12.10' LT

CONCRETE DITCH PAVING

STA. 145+98.00
CONSTRUCT DOUBLE
24" x 184' R.C. PIPE CULVERT
10° RT. FWD. SKEW
(CLASS III) (TYPE 3 BEDDING)
WITH 3:1 FES LT. & RT.
Q50=11.2 CFS D.A.=4.31 ACRES
DUMPED RIPPAP LT. & RT. = 48 CU. YD.

STA. 153+00.00 CONSTRUCT
DROP INLET IN MEDIAN H=5'-0"
WITH 24" x 96' PIPE OUTLET
TO DROP INLET IN MEDIAN @ STA. 154+00.00
TYPE RM DROP INLET = 4' x 3'
24" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 96 LIN. FT.
24" SLPCCSP PIPE
(TYPE 2 BEDDING) = 96 LIN. FT.

STA. 154+00.00 CONSTRUCT
DROP INLET IN MEDIAN H=5'-0"
WITH 24" x 96' PIPE OUTLET
TO DROP INLET IN MEDIAN @ STA. 155+00.00
TYPE RM DROP INLET = 4' x 3'
24" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 96 LIN. FT.
24" SLPCCSP PIPE
(TYPE 2 BEDDING) = 96 LIN. FT.

STA. 155+00.00 CONSTRUCT
TYPE RM DROP INLET IN MEDIAN
4'-0" x 3'-0" x H=5'-0"
WITH 24" x 88' R.C. PIPE OUTLET RT.
(CLASS III) (TYPE 3 BEDDING) WITH FES.

I-49

LEGEND
- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- (XXXX - X) HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- R&D OF PAVEMENT

NOTES:
1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

STA. 108+65.00 BEGIN SUPERELEVATION
STA. 112+15.00 MAX. SUPERELEVATION (0.046 '/')
STA. 157+02.00 MAX. SUPERELEVATION (0.046 '/')
STA. 160+52.00 END SUPERELEVATION

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
135+00	159+00	LT.	C	2278
135+00	159+00	RT.	C	2443

GUARDRAIL (TYPE C)

STA.	STA.	LOCATION	LIN. FT.
145+59.28	145+79.65	C.L. I-49 LT.	25

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
135+00.00	150+84.38	LT.	1584	6'-0"	1056.25
149+00.00	151+00.00	LT.	200	6'-0"	133.33
150+84.38	159+08.29	MEDIAN	824	VAR.	1298.63

WIRE ROPE SAFETY FENCE

STA.	STA.	SIDE	LIN. FT.
135+00	151+70	LT.	1670

CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	SIDE	LIN. FT.
150+84	156+00	A	LT.	516
156+00	159+00	B	LT.	300

ROCK FILL

STA.	STA.	SIDE
151+63.42	159+00.00	LT.
150+09.23	159+00.00	RT.

P.V.I. 135+20.00 ELEV. 423.14
0.30% LT. DT. GR.
0.12% RT. DT. GR.
-0.50%
0.85% RT. DT. GR.
P.V.T. 136+70.00 ELEV. 422.39
+20.00 RT. 411.35
+60.00 LT. 413.64
0.70% LT. DT. GR.
+50.00 RT. 415.03
+65.00 LT. 415.79
+60.00 LT. 414.81
-0.80% RT. DT. GR.
P.V.I. 143+70.00 ELEV. 418.89
P.V.I. 145+20.00 ELEV. 418.14
K=500
VC=300'
e=-0.22'
-1.07% LT. DT. GR.
+80.00 LT. 410.33
+17.05 RT. 409.67
+30.00 LT. 410.12
P.V.T. 146+70.00 ELEV. 416.50
+25.00 RT. 409.80
FL IN LT. = 410.33
FL OUT RT. = 409.67
50yr WS = 411.63
100yr WS = 411.73
-0.49% LT. DT. GR.
0.12% RT. DT. GR.
PROPOSED PG I-49
+98
+00.00 LT. 408.80
-2.86% RT. DT. GR.
EXISTING 36" SANITARY SEWER
+50.00 RT. 400.51
+00.00 LT. 400.82
-1.10%
STA. 153+00.00 TOP ELEV.=407.74 FL ELEV. OUT=402.74
-3.99% LT. DT. GR.
EXISTING GROUND AT C.L.
-1.40% RT. DT. GR.
24" x 96' @ 0.74%
-0.96% LT. DT. GR.
24" x 96' @ 0.31%
-0.42% LT. DT. GR.
P.V.C. 153+70.00 ELEV. 408.62
+40.00 RT. 396.45
+00.00 LT. 397.94
STA. 154+00.00 TOP ELEV.=407.03 FL ELEV. IN=402.03 FL ELEV. OUT=402.03
P.V.I. 155+20.00 ELEV. 407.18
K=187.5
VC=300'
e=0.60'
STA. 155+00.00 TOP ELEV.=406.73 FL ELEV. IN=401.73 FL ELEV. OUT RT.=401.73
-0.35% RT. DT. GR.
-2.46% RT. DT. GR.
P.V.T. 156+70.00 ELEV. 407.93
+00.00 RT. 395.21
+10.00 LT. 396.22
+85.00 RT. 390.65
-0.30% RT. DT. GR.
TOP OF ROCK FILL ELEV. = 403.00
0.50%
-2.84% LT. DT. GR.
MATCH LINE C.L. I-49 STA. 135+00
MATCH LINE C.L. I-49 STA. 159+00
500 480 460 440 420 400 380 360 340 320
135+00 140+00 145+00 150+00 155+00

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I-49
PLAN AND PROFILE SHEETS