"A FULLY CONTROLLED ACCESS FACILITY"
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS FOR STATE HIGHWAY

I-40 & HWY. 270 OVERHEAD SIGN STRUCTURES REPLACEMENT (S)

ROUTE 270, SECTION 23
ROUTE 40, SECTION 33

JOB 061343
PULASKI & GARLAND COUNTIES

LOCATION OF PROJECT

SIGN LOCATIONS
OH-040-60-31

SIGN LOCATIONS
OH-270-26-04

NORTH POINTE OF PROJECT
LATITUDE = N 34° 40' 35"
LONGITUDE = W 92° 32' 46"

APPROVED
DEPUTY DIRECTOR
AND CHIEF ENGINEER

ARK. HWY. DIST. - 6
INDEX OF SHEETS

1. TITLE SHEET
2. INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES
3. SIGNING SUMMARY, QUANTITIES, AND REVISIONS
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8. MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS
9. EXIT PANEL DETAILS
10. DETAILS OF GUIDE SIGN PANELS
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15. DETAILS OF 40' TO 54' STEEL OVERHEAD SIGN STRUCTURE 0H-040-60-33 (SHEET 5 OF 5)
16. DETAILS OF 101' TO 115' STEEL OVERHEAD SIGN STRUCTURE 0H-270-26-04 (SHEET 1 OF 5)
17. DETAILS OF 101' TO 115' STEEL OVERHEAD SIGN STRUCTURE 0H-270-26-04 (SHEET 2 OF 5)
18. DETAILS OF 101' TO 115' STEEL OVERHEAD SIGN STRUCTURE 0H-270-26-04 (SHEET 3 OF 5)
19. DETAILS OF 101' TO 115' STEEL OVERHEAD SIGN STRUCTURE 0H-270-26-04 (SHEET 4 OF 5)
20. DETAILS OF 101' TO 115' STEEL OVERHEAD SIGN STRUCTURE 0H-270-26-04 (SHEET 5 OF 5)
21. STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION
22. STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION
23. STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER
24. STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER
25. STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2003 AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

ERRATA
1001-1. REQUIRED CONTRACT PROVISIONS FOR STATE CONSTRUCTION JOBS
1021. BIDDING REQUIREMENTS AND CONDITIONS
1051. CONSTRUCTION CONTROL, MARKINGS
1052. EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
1053. CONTROL OF WORK
1071. WORKER VISIBILITY
1008. LOCATED DAMAGES
6001. MAINTENANCE OF TRAFFIC
6041. REFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
6042. REFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
7291. GENERAL REQUIREMENTS FOR SIGNS

GENERAL NOTES

THE EXISTING SIGNS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE REMOVAL AND DISPOSAL OF OVERHEAD/GROUND MOUNTED SIGNS AND SIGN STRUCTURES, INCLUDING FOOTINGS, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDARY TO OTHER ITEMS IN THE CONTRACT.

THE CONTRACTOR WILL VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LAKES.

ALL SIGNS SHALL BE CONSTRUCTED WITH TYPE-III SHEETING BACKGROUND AND SHALL HAVE DEMOUNTABLE LEGEND CONSTRUCTED OF PREMIUM SHEETING (TYPE-III OR IX), UNLESS OTHERWISE NOTED IN THE PLANS. THE LEGEND SHALL BE PLACED USING CLEARVIEW SPACING AND SERIES-5W AND SW CHARACTERS, UNLESS OTHERWISE NOTED IN THE PLANS.

THE CLEARVIEW FONT SHALL FOLLOW THE SPACE TABLES FOR CLEARVIEW AND NOT SHS E-MODIFIED. THIS INCLUDES THE USE OF CLEARVIEW 5-W. FOR GENERAL GUIDANCE ON LETTER AND WORD SPACING REFER TO THE FHWA CLEARVIEW TYPEFACE SUPPLEMENT. (HTTP://MUTCD.FHWA.DOT.GOV)

THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS AND SIGN STRUCTURES OVER ROADWAYS OPEN TO TRAFFIC. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY LANE OR ROAD CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN ITEM 601 OF THE STANDARD SPECIFICATIONS.

PLACEMENT OR REMOVAL OF SIGNS AND SIGN STRUCTURES OVER THE TRAFFIC LANES OR AS SPECIFIED BY THE ENGINEER SHALL BE LIMITED TO THE HOURS BETWEEN 11:00 P.M. AND 5:00 A.M. ANY DAY OF THE WEEK. THE ALLOWABLE WORK PERIOD MAY BE INCREASED OR DECREASED BY THE ENGINEER BASED UPON IMPACT TO TRAFFIC.

THE CONTRACTOR WILL CEASE ALL WORK REQUIRING LANE CLOSURES BETWEEN THE HOURS OF 7AM-11AM AND 3PM-6PM UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
### SUMMARY OF QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>ITEM</th>
<th>TOTAL</th>
<th>UNIT</th>
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<tbody>
<tr>
<td>601</td>
<td>MOBILIZATION</td>
<td>0.50</td>
<td>LUMP SUM</td>
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<tr>
<td>SP, SS &amp; 603</td>
<td>MAINTENANCE OF TRAFFIC</td>
<td>0.50</td>
<td>LUMP SUM</td>
</tr>
<tr>
<td>SP, SS &amp; 727</td>
<td>STEEL OVERHEAD SIGN STRUCTURE (OH-040-60-31)</td>
<td>465.75</td>
<td>EACH</td>
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### MAIN Lanes Signing Quantities

<table>
<thead>
<tr>
<th>SIGN NO./ STRUCTURE TYPE</th>
<th>SIGN</th>
<th>EXIT NUMBER PANEL</th>
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<tr>
<td>LOCATION ST CL OH BM G-1</td>
<td>GUIDE SIGN</td>
<td>TYPE</td>
</tr>
<tr>
<td></td>
<td>LEGEND</td>
<td>SQ. FT.</td>
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<tr>
<td></td>
<td>LENGTH</td>
<td>HEIGHT</td>
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<tr>
<td>OH-040-60-31</td>
<td>1</td>
<td>INSTALL NEW STRUCTURE</td>
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<tr>
<td>OH-040-60-3109A-B</td>
<td>14.50</td>
<td>11.50</td>
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<tr>
<td>OH-040-60-3109B-B</td>
<td>23.00</td>
<td>13.00</td>
</tr>
<tr>
<td>TOTALS:</td>
<td>1</td>
<td>466.75</td>
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| OH-270-26-04            | 1     | INSTALL NEW STRUCTURE |
| OH-270-26-04A           | 15.00 | 10.00 | 150.00 | 5A | 20.00 |
| OH-270-26-04B           | 15.00 | 10.00 | 150.00 | 5B | 20.00 |
| OH-270-26-04C           | 11.00 | 6.50  | 71.50  |
| OH-270-26-04D           | 16.50 | 13.00 | 214.50 |
| TOTALS:                 | 1     | 586.00 | 17.50 | 40.00 |

JOB TOTALS: 1051.75 | 17.50 | 40.00 |

### REVISIONS

<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
<th>SHEET NUMBER</th>
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</table>
I-49 / I-440 INTERCHANGE NORTHEAST LITTLE ROCK
DH-840-68-31 INSTALLED BY JOB 8802483
REPLACE OVERHEAD SIGN STRUCTURE

EXISTING GROUND MOUNTED SIGNS

MANTAIN EXISTING GUARDRAIL
SEV SAME SIGN STRUCTURE DETAILS SHEETS FOR DESIGN SPECIFICATIONS

WEST
L.R. Natl Airport
L.R. River Port
Texarkana

 EAST
440
440
Jacksonville

17.5 FT
MIN. VERTICAL CLEARANCE
OVER THE HIGHEST
POINT OF ROADWAY

7'-3" MIN.
SHOULDER
I-40 WESTBOUND OFF RAMP

SHOULDER
7'-3" MIN.

WEST
L.R. Natl Airport
L.R. River Port
Texarkana

EAST
440
440
Jacksonville

On OH-40-69-31WB-B: 60" Radius, 2.5" Border, White on Green;
[Texarkana] Clearviewway-5-W;
THE CONTRACTOR SHALL DRILL AND POP-RIVET LEGEND, SHIELDS, ARROWS, OR OTHER COPY AS SHOWN.

DIRECT APPLIED BORDER

DIRECT APPLIED BORDER

NOTE:
LEGEND ON GUIDE SIGNS ON THE MAIN LINES SHALL BE DEMOUNTABLE LEGEND.
LEGEND ON GUIDE SIGNS ON CROSS ROADS AND RAMPS SHALL BE DIRECT APPLIED.
THE DEMOUNTABLE AND DIRECT APPLIED LEGENDS SHALL BE TYPE IX SHEETING.

THE BACKGROUND ON ALL GUIDE SIGNS AND STANDARD SIGNS SHALL BE CONSTRUCTED USING TYPE III SHEETING.
TYPE IX SHEETING FOR BORDER, LEGEND, SHIELDS, ARROWS, OR OTHER COPY SHALL BE ORIENTED VERTICALLY AS PER MANUFACTURERS' DATUM MARKS,
ORIENTATION MARKS, OR OTHER RECOMMENDATIONS.
SIGN LEGEND, SHIELDS, ARROWS OR
OTHER COPY SHALL BE APPLIED WITH RIVETS ONLY.
NO OTHER METHOD OF APPLYING CHARACTERS IS ALLOWED.
TYPE A

EXIT 000

EXIT WITH 1 DOOR PLUS APPROX. 400 SF
EXIT WITH 2 DOORS PLUS APPROX. 800 SF
EXIT WITH 3 DOORS APPROX. 1200 SF

TYPE B

EXIT 000A

EXIT WITH 1 DOOR PLUS APPROX. 400 SF
EXIT WITH 2 DOORS PLUS APPROX. 800 SF
EXIT WITH 3 DOORS APPROX. 1200 SF

TYPE C

EXITS 000A-B

EXIT WITH 1 DOOR PLUS APPROX. 400 SF
EXIT WITH 2 DOORS PLUS APPROX. 800 SF
EXIT WITH 3 DOORS APPROX. 1200 SF

TYPE D

000

1 DOOR APPROX. 400 SF
2 DOORS APPROX. 800 SF
3 DOORS APPROX. 1200 SF

TYPE E

000A

1 DOOR APPROX. 400 SF
2 DOORS APPROX. 800 SF
3 DOORS APPROX. 1200 SF
Note: Thickness of all Gusset Plates shall be 3/8".

TRUSS SECTION

Plan at Truss Bearing:
- Bolts shall be 3/4" dia. and open holes shall be 7/8".
- Minimum center to center bolt spacing shall be 2 1/2".
- 1/4" x 1" Square Holes in Gusset Plate and Chord Angle
- Use plate washer on Gusset Plate side.
PLAN - COLUMN BASE

ELEVATION - COLUMN BASE

TOP CHORD

BOTTOM CHORD

DETAILS OF SIGN SUPPORT CONNECTED TO TRUSS

DETAILS OF ALTERNATE 2 SUPPORT

ANCHOR BOLT DETAIL

Steel Overhead Sign Structure

Route: 270
Sec: 13
Arkansas State Highway Commission

Sheet 4 of 5
**Offset Distance for Two Way Traffic Only**

- **Offset Distance Table**

<table>
<thead>
<tr>
<th>Speed</th>
<th>Offset Distance (ft.)</th>
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<tbody>
<tr>
<td>&lt; 15</td>
<td>12</td>
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<tr>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

- If offset distance is not attainable, use "Barrier Placement With Attenuator" detail shown below.

- **Barrier Placement With Attenuator**

- **Min. 3'-0" from Edge of Travel Lane to Nearest Edge of Attenuator**

**General Notes**

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with an NCHRP-350 or Manual For Assessing Safety Hardware (MASH) approved Crash Cushion. Payment for Crash Cushions shall be made under the item of "Temporary Impact Attenuation Barrier."