

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061460	1	40	
				2 HWY. 84 STRS. & APPRS. (OAK GROVE) (S)				

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

**HWY. 84 STRS. & APPRS.
(OAK GROVE) (S)**

HOT SPRING COUNTY

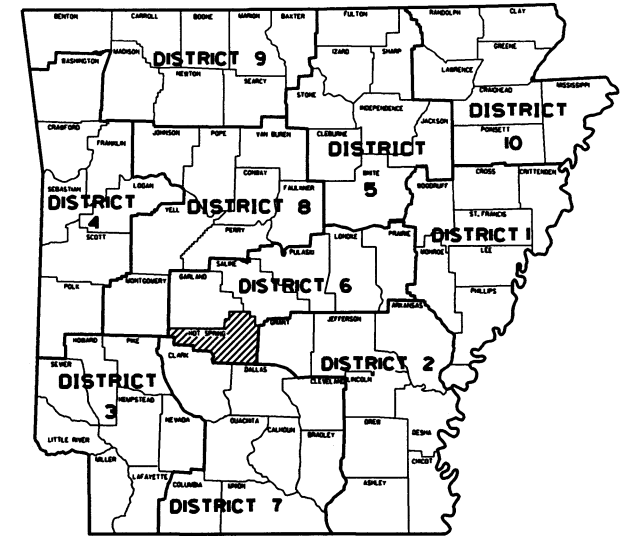
ROUTE 84 SECTION 6

JOB 061460

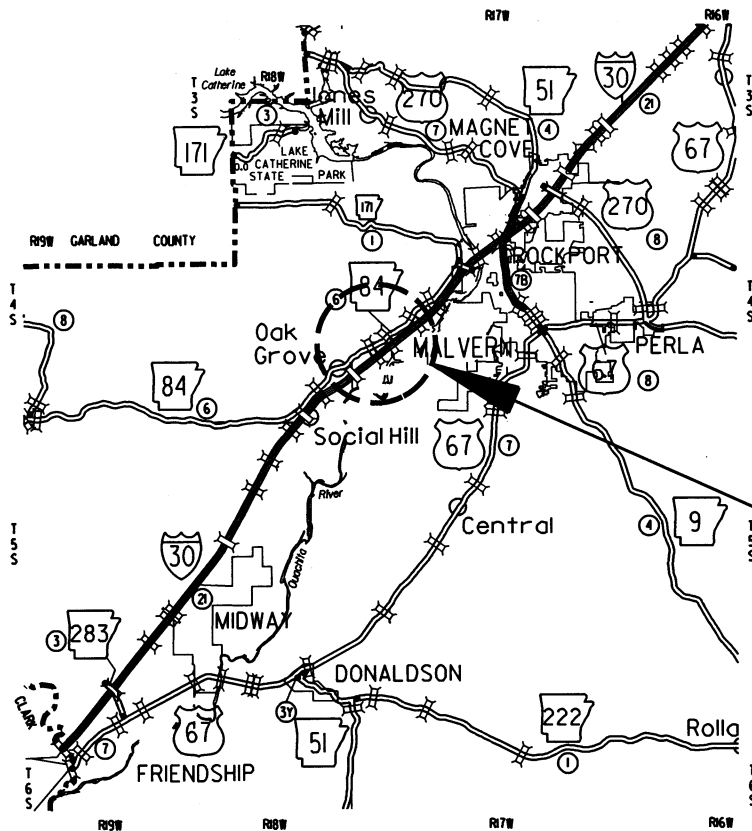
FED. AID PROJ. NHPP-0030(22)

NOT TO SCALE

R 18 W | R 17 W



ARK. HWY. DIST. NO. 6



VICINITY MAP

STRUCTURES OVER 20'-0" SPAN

① STA. III+50.00 CONSTRUCT
QUAD. 10' x 8' x 74' R.C. BOX CULVERT
WITH 3½ WINGS LT. AND RT.
Q25= 809 CFS, D.A. = 1.39 SO. MI.
SPAN = 43.33'

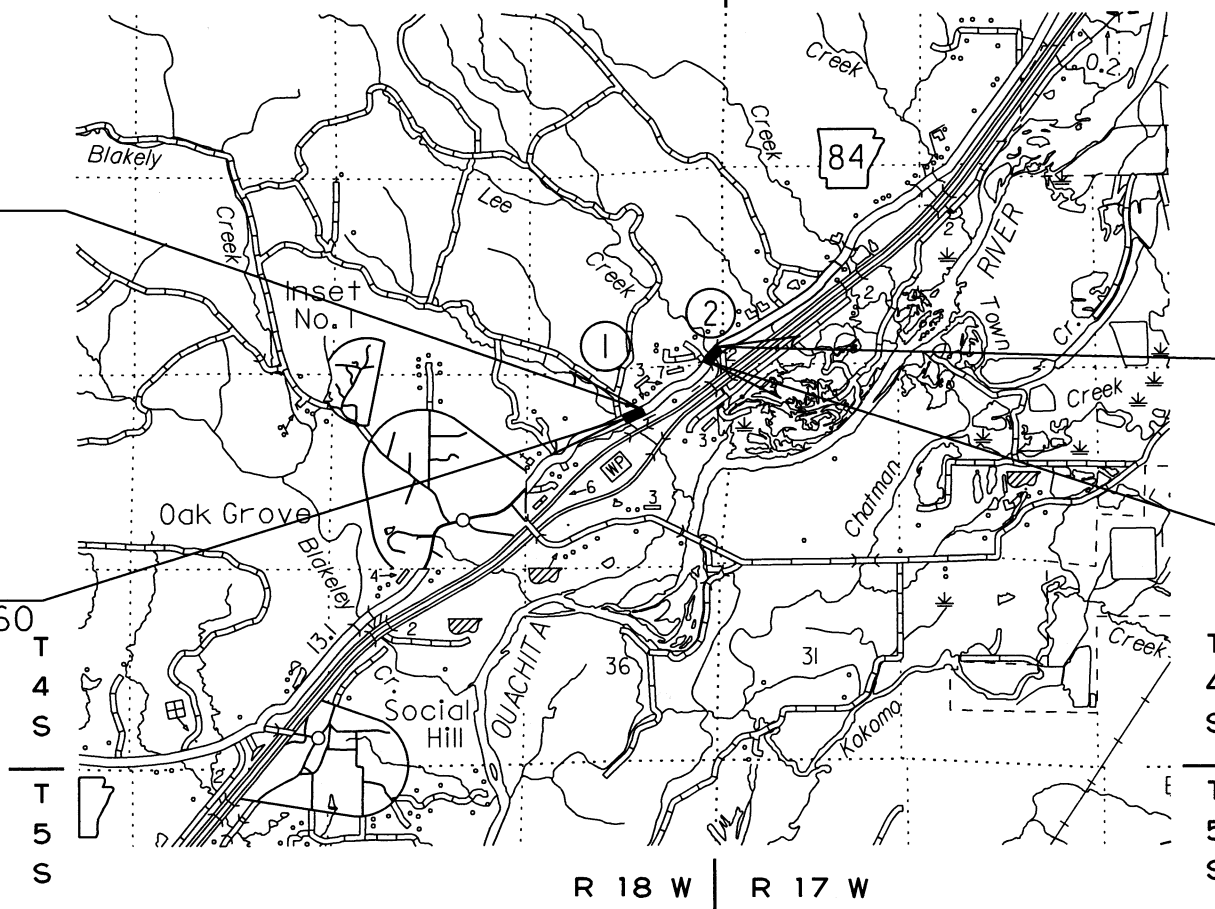
② STA. 221+50.00 CONSTRUCT
QUAD. 11' x 7' x 78' R.C. BOX CULVERT
ON A 15° LT. FWD SKEW
WITH 3½ WINGS LT. AND RT.
Q25= 1060 CFS, D.A. = 2.20 SO. MI.
SPAN = 48.83'

STA. III+95.00
END SITE 1

STA. III+02.00
BEGIN JOB 061460
& SITE 1
LOG MILE 17.69

STA. 221+91.00
END SITE 2
& JOB 061460

STA. 220+86.00
BEGIN SITE 2
LOG MILE 18.25

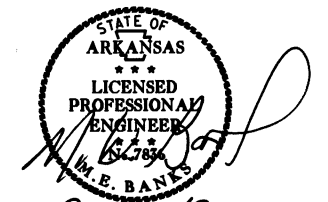


• DESIGN TRAFFIC DATA •

DESIGN YEAR	-----	2039
2019 ADT	-----	1500
2039 ADT	-----	2000
2039 DHV	-----	220
DIRECTIONAL DISTRIBUTION	-----	60%
TRUCKS	-----	8%
AVERAGE RUNNING SPEED	-----	55 MPH



APPROVED



9-12-19

DEPUTY DIRECTOR
AND CHIEF ENGINEER

GROSS LENGTH OF PROJECT	198.00	FEET	OR	0.038	MILES
NET " " ROADWAY	105.84	"	"	0.021	"
NET " " BRIDGES	92.16	"	"	0.017	"
NET " " PROJECT	198.00	"	"	0.038	"

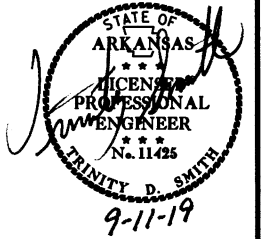
SITE 1	BEGIN PROJECT	MID-POINT OF PROJECT	END PROJECT
LATITUDE	N 34°21' 20.11"	N 34°21' 20.70"	N 34°21' 21.28"
LONGITUDE	W 92°53' 18.05"	W 92°53' 16.44"	W 92°53' 14.85"
SITE 2	BEGIN PROJECT	MID-POINT OF PROJECT	END PROJECT
LATITUDE	N 34°21' 34.45"	N 34°21' 35.70"	N 34°21' 36.78"
LONGITUDE	W 92°52' 48.03"	W 92°52' 46.83"	W 92°52' 45.72"

9/5/2019

R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						061460	2	40

② INDEX OF SHEETS AND STANDARD DRAWINGS



INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARD DRAWINGS
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES
4	TYPICAL SECTIONS OF IMPROVEMENT
5 - 13	SPECIAL DETAILS
14 - 17	TEMPORARY EROSION CONTROL DETAILS
18 - 22	MAINTENANCE OF TRAFFIC DETAILS
23 - 24	PERMANENT PAVEMENT MARKING DETAILS
25 - 28	QUANTITIES
29	SUMMARY OF QUANTITIES AND REVISIONS
30 - 32	SURVEY CONTROL DETAILS
33 - 34	PLAN AND PROFILE SHEETS
35 - 40	CROSS SECTIONS

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
PBC-1	PRECAST CONCRETE BOX CULVERTS	01-28-15
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCM-1	METAL PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCP-1	PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)	02-27-14
PCP-2	PLASTIC PIPE CULVERT (PVC F949)	02-27-14
PM-1	PAVEMENT MARKING DETAILS	06-01-17
PU-1	DETAILS OF PIPE UNDERDRAIN	12-08-16
RCB-1	REINFORCED CONCRETE BOX CULVERT DETAILS	07-26-12
RCB-2	EXCAVATION PAY LIMITS, BACKFILL, & SOLID SODDING FOR BOX CULVERTS	11-20-03
SE-2	TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC	10-18-96
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-13-17
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	07-25-19
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WF-2	WIRE FENCE TYPE A AND B	04-20-79
WF-4	WIRE FENCE TYPE C AND D	08-22-02

9/5/2019

R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061460	3	40

2 GOVERNING SPECS. AND GENERAL NOTES

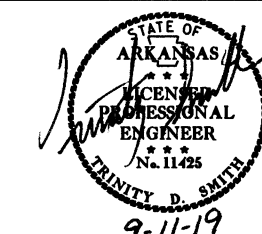
GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
400-1	TACK COATS
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
600-2	INCIDENTAL CONSTRUCTION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
605-1	CONCRETE DITCH PAVING
606-1	PIPE CULVERTS FOR SIDE DRAINS
620-1	MULCH COVER
800-1	STRUCTURES
802-3	CONCRETE FOR STRUCTURES
804-2	REINFORCING STEEL FOR STRUCTURES
JOB 061460	BIDDING REQUIREMENTS AND CONDITIONS
JOB 061460	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 061460	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 061460	CARGO PREFERENCE ACT REQUIREMENTS
JOB 061460	CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS
JOB 061460	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 061460	FLEXIBLE BEGINNING OF WORK
JOB 061460	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 061460	MAINTENANCE OF TRAFFIC
JOB 061460	MANDATORY ELECTRONIC CONTRACT
JOB 061460	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 061460	NESTING SITES OF MIGRATORY BIRDS
JOB 061460	OFF-SITE RESTRAINING CONDITIONS FOR NORTHERN LONG-EARED BATS
JOB 061460	PLASTIC PIPE
JOB 061460	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 061460	SHORING FOR CULVERTS
JOB 061460	SOIL STABILIZATION
JOB 061460	STORM WATER POLLUTION PREVENTION PLAN
JOB 061460	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 061460	UTILITY ADJUSTMENTS
JOB 061460	WARM MIX ASPHALT

GENERAL NOTES

- GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
- THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THIS PROJECT IS COVERED UNDER A SECTION 404 NATIONWIDE 14 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.

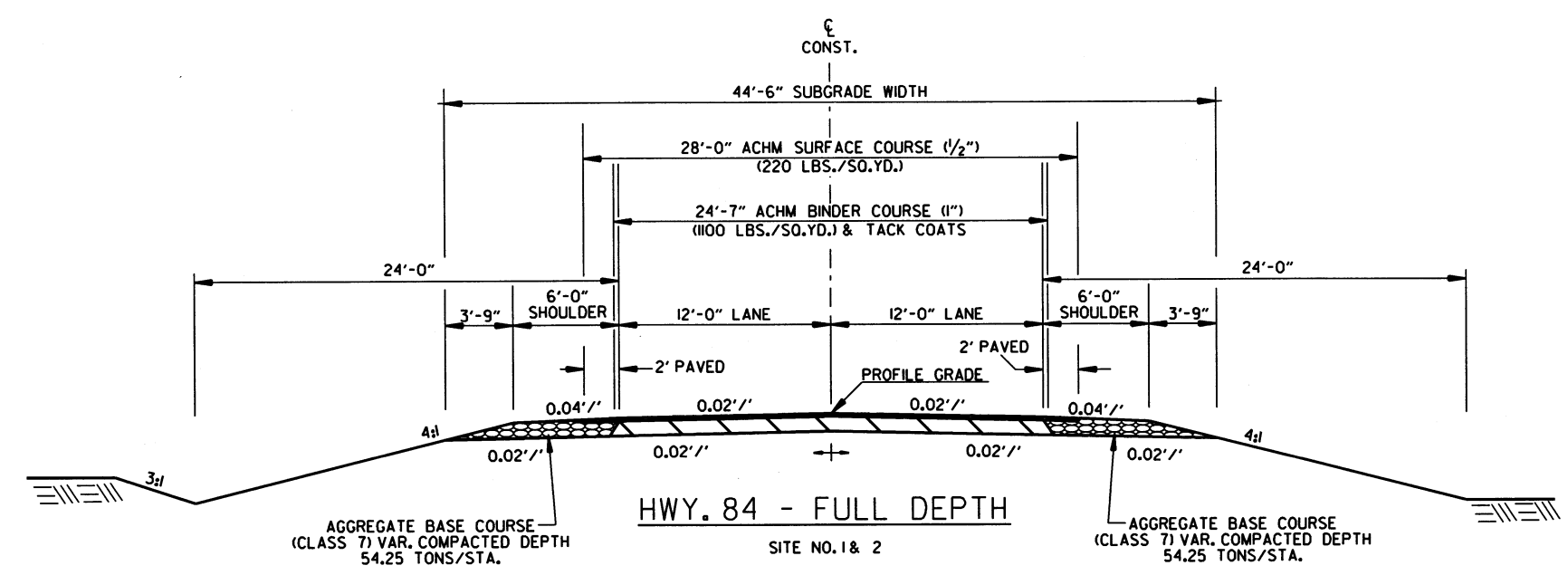
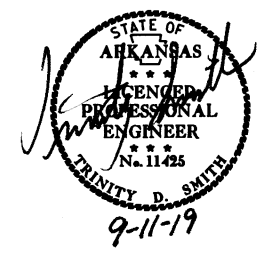


9/5/2019

R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061460							4	40

2 TYPICAL SECTIONS OF IMPROVEMENT



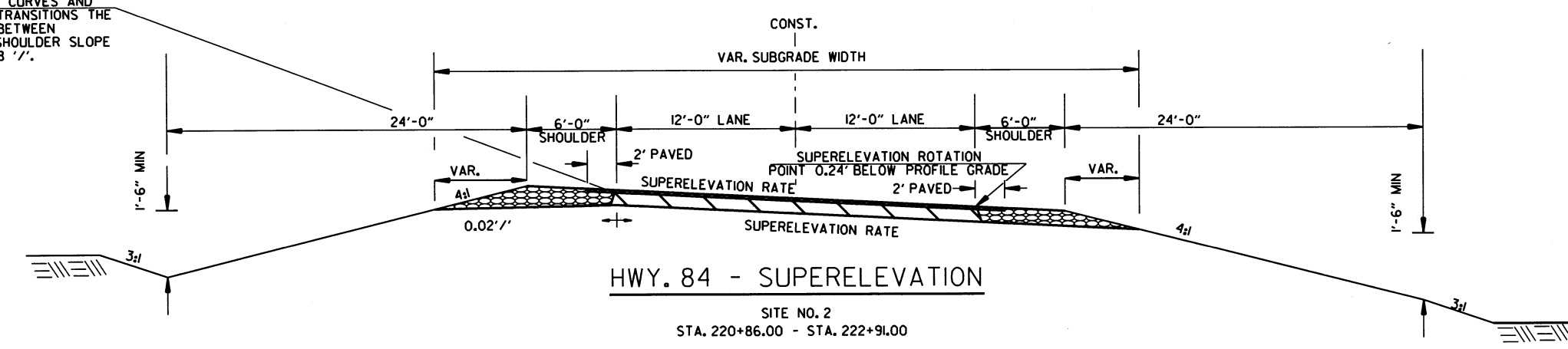
NOTES:
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT LANE LINES.

ON ALL SUPERELEVATED CURVES AND THRU SUPERELEVATION TRANSITIONS THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 0.08 '/'.

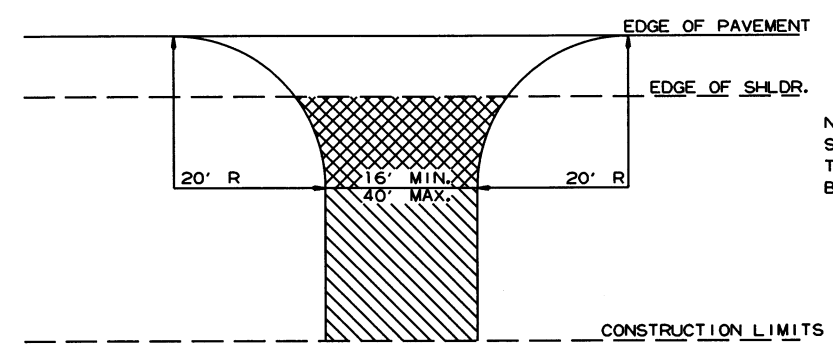
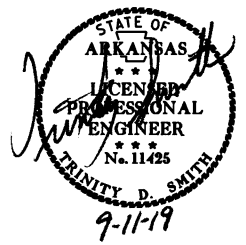


9/5/2019

R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061460							5	40

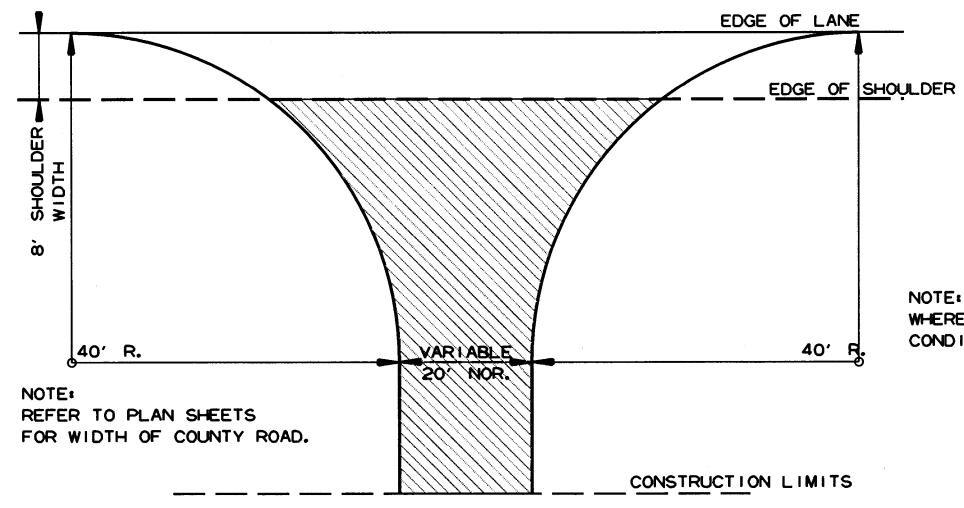
2 SPECIAL DETAILS



NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

- ASPHALT CONCRETE HOT MIX SURFACE COURSE (220 LBS. PER SQ. YD.)
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH IF ASPHALT DRIVE EXIST OR
6" CONCRETE IF CONCRETE DRIVE EXIST.
- AGGREGATE BASE COURSE (CLASS 7)
9" COMP. DEPTH OR CONFORM
TO EXISTING DRIVEWAY

DETAIL FOR DRIVEWAY TURNOUTS
(COLLECTORS)

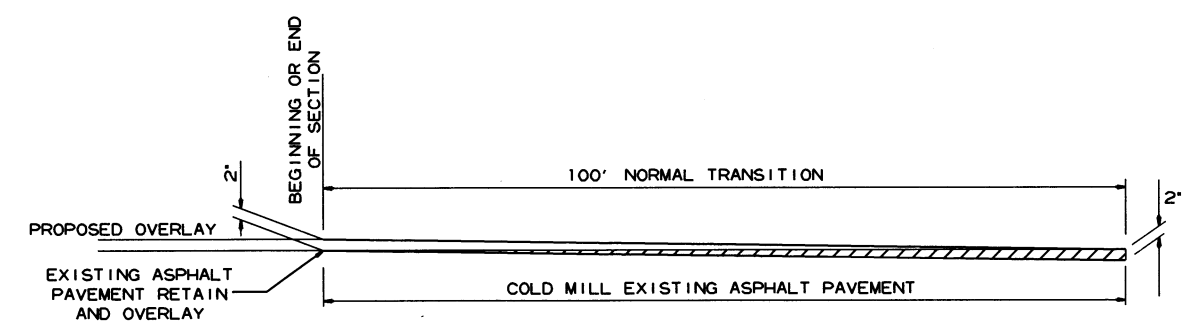


NOTE: TURNOUTS SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

NOTE: REFER TO PLAN SHEETS FOR WIDTH OF COUNTY ROAD.

- ACHM SURFACE COURSE (1/2")
(220 LBS. PER SQ. YD.) AND
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH

DETAIL FOR COUNTY ROAD TURNOUTS
OPEN SHOULDER SECTION



DETAIL FOR TRANSITIONS

9/5/2019

R061460.DGN

MID-SECTION

Table with columns for R.C. BOX SECTION (D, S, H, T, B, C, W, OW, OH, SL), TOP SLAB REINFORCING STEEL, BOTTOM SLAB REINFORCING STEEL, SIDE WALL REINFORCING STEEL, INTERIOR WALL REINFORCING STEEL, TOP SLAB DISTRIBUTION REINF. STEEL, BOTTOM SLAB DISTRIBUTION REINF. STEEL, SIDE WALL DISTRIBUTION REINF. STEEL, INTERIOR WALL DISTRIBUTION REINF. STEEL, CLASS 'S' CONCRETE, and REINFORCING STEEL.

Table with columns: CLASS 'S' CONCRETE (CU. YDS.), REINFORCING STEEL (GR. 60) (LBS.), TOTAL.

SHEET 1 OF 2
DETAILS OF R.C. BOX CULVERT
QUADRUPLE BARREL BOX CULVERT
Sta. III+50
SPECIAL DETAILS

Data shown for Mid-Section, Slope Sections, and Skewed End Section is based on the design fill depth shown in the table, see PLAN AND PROFILE SHEETS for actual fill depth.

Table with columns: Design Fill Depth, Range of Actual Fill Depth.

INLET SLOPE SECTION(S)

Table with columns for R.C. BOX SECTION (D, S, H, T, B, C, W, OW, OH, SL), TOP SLAB REINFORCING STEEL, BOTTOM SLAB REINFORCING STEEL, SIDE WALL REINFORCING STEEL, INTERIOR WALL REINFORCING STEEL, TOP SLAB DISTRIBUTION REINF. STEEL, BOTTOM SLAB DISTRIBUTION REINF. STEEL, SIDE WALL DISTRIBUTION REINF. STEEL, INTERIOR WALL DISTRIBUTION REINF. STEEL, CLASS 'S' CONCRETE, and REINFORCING STEEL.

Table with columns: CLASS 'S' CONCRETE (CU. YDS.), REINFORCING STEEL (GR. 60) (LBS.), TOTAL.

INLET SKEWED END SECTION

Table with columns for SK, SL, D, S, H, L, T, HB, B, C, W, OW, OH, TOP SLAB REINFORCING STEEL, BOTTOM SLAB REINFORCING STEEL, SIDE WALL REINFORCING STEEL, INTERIOR WALL REINFORCING STEEL, TOP SLAB DISTRIBUTION REINFORCING STEEL, BOTTOM SLAB DISTRIBUTION REINFORCING STEEL, SIDE WALL DISTRIBUTION REINFORCING STEEL, INTERIOR WALL DISTRIBUTION REINFORCING STEEL, CLASS 'S' CONCRETE, and REINFORCING STEEL.

Table with columns: CLASS 'S' CONCRETE (Includes HDWL) (CU. YDS.), REINFORCING STEEL (GR. 60) (Includes HDWL) (LBS.).

Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the Item "Reinforcing Steel - Roadway (Gr. 60)."

INLET WINGWALL TABLE

Table with columns for OVER ALL WIDTH, CLEAR HEIGHT, FOOTING THK., WING WALL THK., BOX SKEW (DEG.), SLOPE, HDWL LENGTH, HEEL, WALL HEIGHT (AT HDWL, AT WING END), WINGWALL ANGLE (DEGREE), WIDTH OF WING FOOTINGS AT HDWL, FOOTING DIMENSION PARALLEL WITH HDWL, LENGTH OF WINGWALLS, LENGTH OF FOOTING HEEL, CLASS 'S' CONCRETE, and REINFORCING STEEL.

BAR LAP TABLE

Table with columns: # of Long. Laps Req'd., SL = Section Length, REINFORCING STEEL QTY. PER WING (LBS.).

Table with columns: Min. Bar Lap Length, Bar Size, Length.

Table with columns: Bar Pin Dia. Table, Bar Size, Length.

This drawing to be used in conjunction with SHEET 1 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", "GENERAL NOTES & LONGITUDINAL SECTION LENGTH SCHEDULE", SHEET 3 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", "DETAILS OF MULTI-BARREL R.C. BOX CULVERT", SHEET 4 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", "DETAILS OF WINGWALLS", and STANDARD DRAWING RCB-2. For additional information and outlet sections, see Sheet 2 of 2.

TABULAR DATA BY: NAC DATE: 8/29/19
CHECKED BY: LJB DATE: 8-29-19

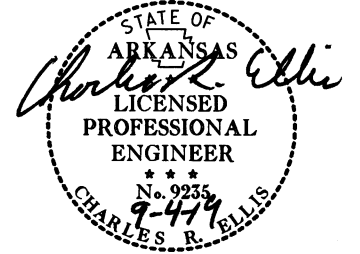


Table with columns: DATE REVISED, DATE FILMED, FED. ROAD DIST. NO., STATE, FED. AID PROJ. NO., SHEET NO., TOTAL SHEETS.

OUTLET SKEWED END SECTION

Table for Outlet Skewed End Section detailing dimensions (SK, SP, D, S, H, L, T, HD, B, C, W, OW, OH), reinforcement steel (TOP SLAB, BOTTOM SLAB, SIDE WALL, INTERIOR WALL, TOP SLAB DISTRIBUTION, BOTTOM SLAB DISTRIBUTION, SIDE WALL DISTRIBUTION, INTERIOR WALL DISTRIBUTION), and material quantities (CU. YDS., LBS.).

OUTLET SLOPE SECTION(S)

Table for Outlet Slope Section(S) detailing dimensions (D, S, H, T, B, C, W, OW, OH, SL), reinforcement steel (TOP SLAB, BOTTOM SLAB, SIDE WALL, INTERIOR WALL, TOP SLAB DISTRIBUTION, BOTTOM SLAB DISTRIBUTION, SIDE WALL DISTRIBUTION, INTERIOR WALL DISTRIBUTION), and material quantities (CU. YDS., LBS.).

Summary table for Class 'S' Concrete and Reinforcing Steel (Gr. 60) showing CU. YDS. (0.40) and LBS. (117).

OUTLET WINGWALL TABLE

Main table for Outlet Wingwall Table detailing dimensions (OVER ALL WIDTH, CLEAR HEIGHT, FOOTING THK., WING WALL THK., BOX SKEW, SLOPE, HDWL LENGTH, HEEL, WALL HEIGHT, WINGWALL ANGLE, FOOTING WIDTH AT WALL END, WIDTH OF WING FOOTINGS AT HDWL, FOOTING DIMENSION PARALLEL WITH HDWL, LENGTH OF WINGWALLS, LENGTH OF FOOTING HEEL), material classes (CLASS 'S' CONCRETE, REINFORCING STEEL), and reinforcement details (WING A, WING B, WING A, WING B, WING A, WING B, WING A, WING B).

Table for Minimum Bar Lap Length (Min. Bar Lap Length) showing values for bar sizes #4 through #8.

Table for Bar Pin Dia. Table showing pin diameters for bar sizes #4 through #8.

Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the Item "Reinforcing Steel - Roadway (Gr. 60)."

Project information table including DATE REVISED, DATE FILMED, FEDERAL ROAD DIST. NO. (6), STATE (ARK.), FED. AID PROJ. NO., SHEET NO. (7), and TOTAL SHEETS (40).



TABULAR DATA BY: NAC DATE: 8/29/19 CHECKED BY: LJB DATE: 8-29-19

SPECIAL DETAILS



MID-SECTION

Table with columns for R.C. BOX SECTION (D, S, H, T, B, C, W, OW, OH), TOP SLAB REINFORCING STEEL (a, b, c), BOTTOM SLAB REINFORCING STEEL (d, b1, f), SIDE WALL REINFORCING STEEL (f0), INTERIOR WALL REINFORCING STEEL (f1), TOP SLAB DISTRIBUTION REINF. STEEL (g), BOTTOM SLAB DISTRIBUTION REINF. STEEL (e), SIDE WALL DISTRIBUTION REINF. STEEL (d1), INTERIOR WALL DISTRIBUTION REINF. STEEL (d2), CLASS 'S' CONCRETE, REINFORCING STEEL (GR. 60).

Table with columns: CLASS 'S' CONCRETE (CU. YDS.), REINFORCING STEEL (GR. 60) (LBS.).

INLET SLOPE SECTION(S)

Table with columns for R.C. BOX SECTION (D, S, H, T, B, C, W, OW, OH), TOP SLAB REINFORCING STEEL (a, b, c), BOTTOM SLAB REINFORCING STEEL (d, b1, f), SIDE WALL REINFORCING STEEL (f0), INTERIOR WALL REINFORCING STEEL (f1), TOP SLAB DISTRIBUTION REINF. STEEL (g), BOTTOM SLAB DISTRIBUTION REINF. STEEL (e), SIDE WALL DISTRIBUTION REINF. STEEL (d1), INTERIOR WALL DISTRIBUTION REINF. STEEL (d2), CLASS 'S' CONCRETE, REINFORCING STEEL (GR. 60).

Table with columns: CLASS 'S' CONCRETE (CU. YDS.), REINFORCING STEEL (GR. 60) (LBS.).

INLET SKEWED END SECTION

Table with columns for SK, SL, D, S, H, L, T, HD, B, C, W, OW, OH, TOP SLAB REINFORCING STEEL (a, c), BOTTOM SLAB REINFORCING STEEL (d, f), SIDE WALL REINFORCING STEEL (f0), INTERIOR WALL REINFORCING STEEL (f1), TOP SLAB DISTRIBUTION REINFORCING STEEL (g), BOTTOM SLAB DISTRIBUTION REINFORCING STEEL (e), SIDE WALL DISTRIBUTION REINFORCING STEEL (d1), INTERIOR WALL DISTRIBUTION REINFORCING STEEL (d2).

Table with columns: CLASS 'S' CONCRETE (includes HDWL.) (CU. YDS.), REINFORCING STEEL (GR. 60) (includes HDWL.) (LBS.).

Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the Item "Reinforcing Steel - Roadway (Gr. 60)."

INLET WINGWALL TABLE

Large table with columns for OVER ALL WIDTH, CLEAR HEIGHT, FOOTING THK., WING WALL THK., BOX SKEW (DEG.), SLOPE, HDWL. LENGTH, HEEL, WALL HEIGHT (AT HDWL, AT WING END), WING WALL ANGLE (DEGREE), WING WALL WIDTH AT WALL END, WIDTH OF WNG FOOTINGS AT HDWL (WNG A, WNG B), FOOTING DIMENSION PARALLEL WITH HDWL (WING A, WING B), LENGTH OF WINGWALLS (WING A, WING B), LENGTH OF FOOTING HEEL (WING A, WING B), CLASS 'S' CONCRETE, REINFORCING STEEL.

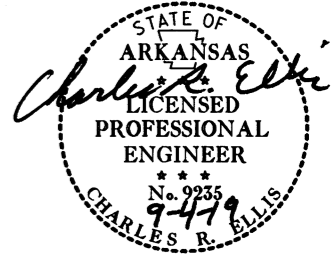
MID-SECTION BAR LAP TABLE

Table with columns: # of Long. Laps Req'd., SL = Section Length, REINFORCING STEEL QTY. PER WING (LBS.).

Table with columns: Min. Bar Lap Length, #4, #5, #6, #7, #8.

Table with columns: Bar Pin Dia. Table, #4, #5, #6, #7, #8.

TABULAR DATA BY: NAC DATE: 8/29/19 CHECKED BY: LJS DATE: 8-29-19



This drawing to be used in conjunction with SHEET 1 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", "GENERAL NOTES & LONGITUDINAL SECTION LENGTH SCHEDULE", SHEET 3 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", "DETAILS OF MULTI-BARREL R.C. BOX CULVERT", SHEET 4 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", "DETAILS OF WINGWALLS", and STANDARD DRAWING RCB-2. For additional information and outlet sections, see Sheet 2 of 2.

Table with columns: Design Fill Depth, Range of Actual Fill Depth.

Data shown for Mid-Section, Slope Sections, and Skewed End Section is based on the design fill depth shown in the table, see PLAN AND PROFILE SHEETS for actual fill depth.

SHEET 1 OF 2 DETAILS OF R.C. BOX CULVERT QUADRUPLE BARREL BOX CULVERT Sta. 221+50 SPECIAL DETAILS



OUTLET SLOPE SECTIONS(S)

Table for Outlet Slope Sections(S) with columns for R.C. BOX SECTION, DESIGN FILL DEPTH, CLEAR SPAN, CLEAR HEIGHT, TOP SLAB THK, BOTTOM SLAB THK, SIDE WALL THK, INTERIOR WALL THK, OVER ALL WIDTH, OVER ALL HEIGHT, SECTION LENGTH, TOP SLAB REINFORCING STEEL, BOTTOM SLAB REINFORCING STEEL, SIDE WALL REINFORCING STEEL, INTERIOR WALL REINFORCING STEEL, TOP SLAB DISTRIBUTION REINF. STEEL, BOTTOM SLAB DISTRIBUTION REINF. STEEL, SIDE WALL DISTRIBUTION REINF. STEEL, INTERIOR WALL DISTRIBUTION REINF. STEEL, CLASS 'S' CONCRETE, REINFORCING STEEL (GR. 60).

OUTLET SKEWED END SECTION

Table for Outlet Skewed End Section with columns for SKEW (DEGREE), SLOPE, DESIGN FILL DEPTH, CLEAR SPAN, CLEAR HEIGHT, SECTION LENGTH, TOP SLAB THK, HDWL DEPTH, BOTTOM SLAB THK, SIDE WALL THK, INTERIOR WALL THK, OVER ALL WIDTH, OVER ALL HEIGHT, TOP SLAB REINFORCING STEEL, BOTTOM SLAB REINFORCING STEEL, SIDE WALL REINFORCING STEEL, INTERIOR WALL REINFORCING STEEL, TOP SLAB DISTRIBUTION REINFORCING STEEL, BOTTOM SLAB DISTRIBUTION REINFORCING STEEL, SIDE WALL DISTRIBUTION REINFORCING STEEL, INTERIOR WALL DISTRIBUTION REINFORCING STEEL, CLASS 'S' CONCRETE, REINFORCING STEEL (GR. 60).

OUTLET WINGWALL TABLE

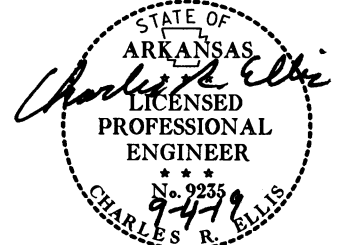
Table for Outlet Wingwall Table with columns for OVER ALL WIDTH, CLEAR HEIGHT, FOOTING THK., WING WALL THK., BOX SKEW (DEG.), SLOPE, HDWL LENGTH, HEEL, WALL HEIGHT, WINGWALL ANGLE, FOOTING WIDTH AT WALL END, WIDTH OF WING FOOTINGS AT HDWL, FOOTING DIMENSION PARALLEL WITH HDWL, LENGTH OF WINGWALLS, LENGTH OF FOOTING HEEL, CLASS 'S' CONCRETE, REINFORCING STEEL.

Table for Min. Bar Lap Length with columns for #4, #5, #6, #7, #8 and corresponding lengths.

Table for Bar Pin Dia. Table with columns for #4, #5, #6, #7, #8 and corresponding diameters.

Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the Item "Reinforcing Steel - Roadway (Gr. 60)."

Table for Date Revised, Date Filmed, Date Revised, Date Filmed, Fed. Road Dist. No., State, Fed. Aid Proj. No., Sheet No., Total Sheets.



TABULAR DATA BY: NAC DATE: 8/29/19 CHECKED BY: LJB DATE: 8-29-19

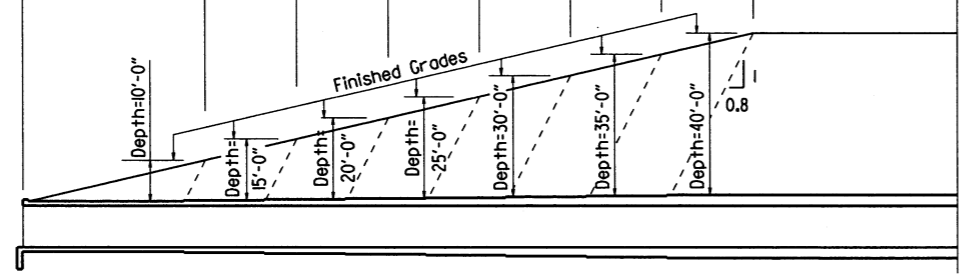
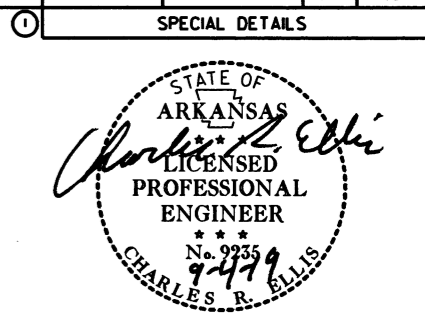


2:1 Slope	20'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
3:1 Slope	30'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
4:1 Slope	40'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"

Note: For fill depths 10' and under, use Mid-Section full length of box culvert.

*LL = Skewed End Section Length - See "Skewed End Section Details" Length LL varies with skew angle, overall box width and fill depth and may eliminate the need for some slope section lengths as shown.

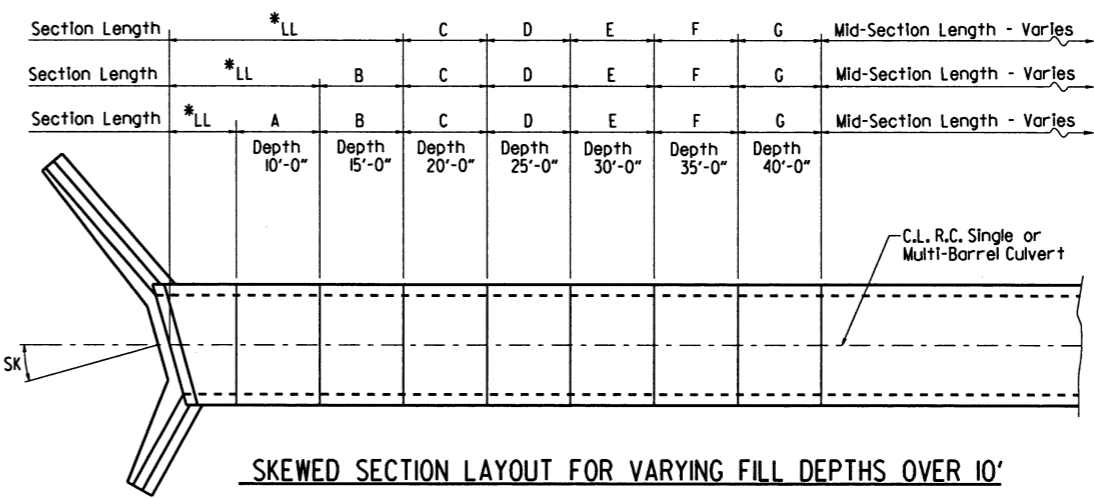
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061460		10	40



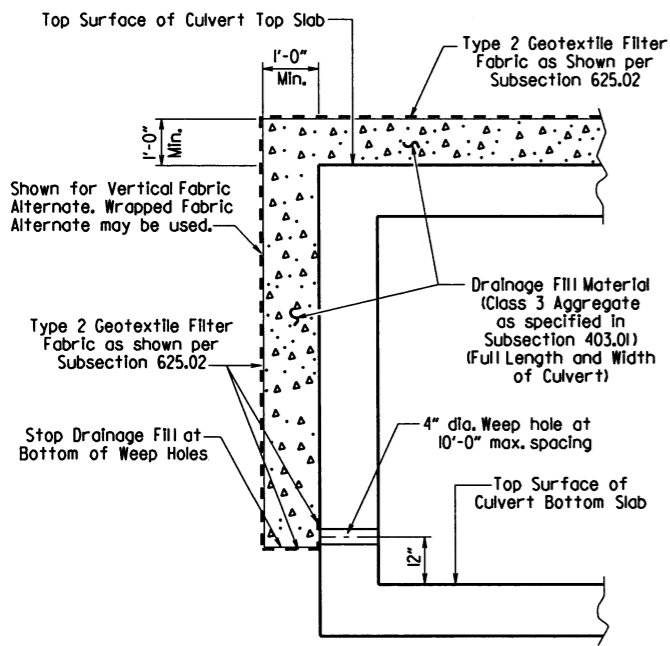
Slope Section Length @ 2:1 Slope	A=12'-0"	B=6'-0"	C=6'-0"	D=6'-0"	E=6'-0"	F=6'-0"	G=6'-0"	Mid-Section Length - Varies
Slope Section Length @ 3:1 Slope	A=22'-0"	B=11'-0"	C=11'-0"	D=11'-0"	E=11'-0"	F=11'-0"	G=11'-0"	Mid-Section Length - Varies
Slope Section Length @ 4:1 Slope	A=32'-0"	B=16'-0"	C=16'-0"	D=16'-0"	E=16'-0"	F=16'-0"	G=16'-0"	Mid-Section Length - Varies

LONGITUDINAL SECTION LENGTH SCHEDULE FOR VARYING FILL DEPTHS OVER 10'

Lengths for Non-Skewed Boxes

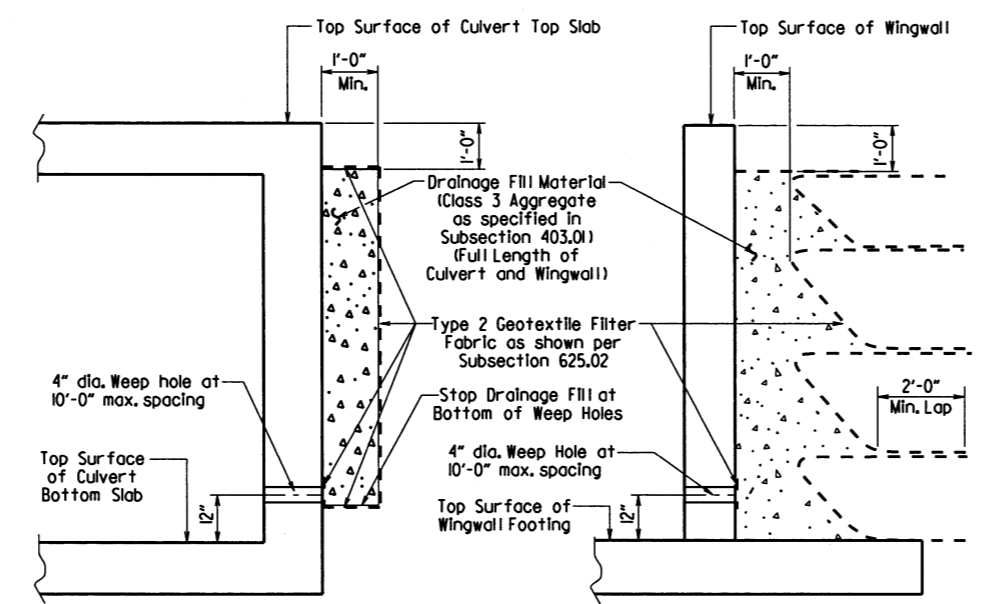


SKewed SECTION LAYOUT FOR VARYING FILL DEPTHS OVER 10'



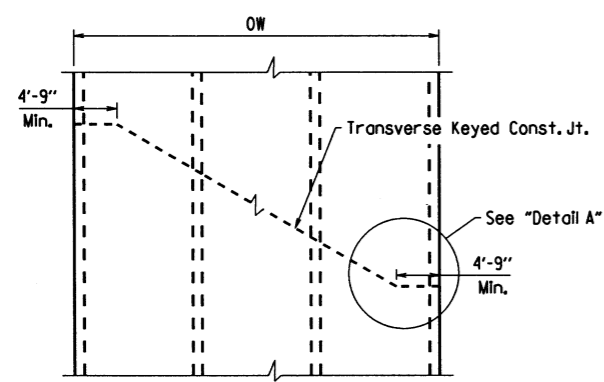
CULVERT DRAINAGE DETAIL FOR ROCK FILL

This detail shall be used when rock fill is specified for embankment construction.



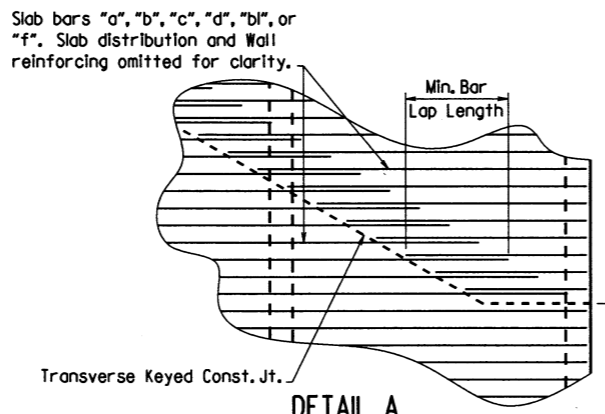
WINGWALL & CULVERT DRAINAGE DETAIL

For Details of Excavation and Pay Limits, see Standard Drawing RCB-2.
 VERTICAL FABRIC ALTERNATE (Shown for Culvert, Similar for Wingwall)
 WRAPPED FABRIC ALTERNATE (Shown for Wingwall, Similar for Culvert)



SKewed TRANSVERSE JOINT DETAIL

This detail shall be used to construct a skewed transverse joint only for Multi-Barrel Culverts and only when required by the Maintenance of Traffic Plans. Otherwise, transverse joints should be made normal to the centerline of the barrel.



DETAIL A

See Tabular Data Sheets for Minimum Bar Lap Lengths.

Shown for transverse reinforcing, longitudinal reinforcing similar.

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the Plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Fifth Edition (2010) with 2010 interim revisions.

LIVE LOADING: HL-93

All concrete shall be Class S with a minimum 28-day compressive strength of 3,500 psi and shall be poured in the dry. All exposed corners to have 1/4" chamfers.

Reinforcing Steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M31 or M322, Type A, with mill test reports.

Reinforcing Steel Tolerances: The tolerances for reinforcing steel shall meet those listed in 'Manual of Standard Practice' published by Concrete Reinforcing Steel Institute (CRSI) except that the tolerance for truss bars such as Figure 3 on page 7-4 of the CRSI Manual shall be minus zero to plus 1/2 inch.

Excavation and backfilling shall be in accordance with the requirements of Section 801.

Membrane Waterproofing shall conform to the requirements of Section 815. Membrane Waterproofing shall be Type C and as directed by the Engineer applied to all construction joints in the top slab and the sidewalls of R.C. Box culverts and to the construction joint between wingwalls and R.C. Box culvert walls.

Weep Holes in box culvert walls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. The drain opening shall be 4" diameter and shall be placed 12" above the top of the bottom slab.

Weep Holes in wingwalls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. There shall be a minimum of two (2) weep holes in each wingwall. The drain opening shall be 4" diameter and shall be placed 12" above the top of the wingwall footing.

The barrel components of the culvert may be constructed using continuous pours. For longer culvert construction, the Contractor may use multiple pours with transverse construction joints spaced a minimum of 50 feet apart unless superseded by stage construction or site constraints as approved by the Engineer. Construction joints between footings and walls shall be made only where shown in the Plans. Joints shall be keyed and shall be normal to the centerline of barrel except as noted. Reinforcing shall be continuous through joints unless noted otherwise. Reinforcing through stage construction joints shall provide the minimum bar lap length shown on the Tabular Data Sheets. All longitudinal construction joints shall be submitted to the Engineer for approval.

Membrane Waterproofing, Weep Holes, Geotextile Filter Fabric, and Drainage Fill Material will not be paid for directly but shall be considered subsidiary to Class S Concrete.

When the top slab of the box culvert serves as finished roadway surface, curing and finishing shall be in accordance with subsections 802.17 and 802.20 for bridge roadway surface and a tine finish shall be applied in accordance with subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish. Curing and finishing shall not be paid for directly, but shall be considered incidental to the item "Class 5 Concrete-Roadway". Class 1 Protective Surface Treatment shall be applied to the roadway surface and this work shall be paid for under the unit price bid for "Class 1 Protective Surface Treatment".

When precast reinforced concrete box culverts are substituted for cast in place box culverts, they shall be manufactured according to ASTM C 1577 and meet the requirements of Section 607. When the top slab of the box culvert serves as the finished roadway surface, a precast reinforced concrete box culvert substitution is not allowed.

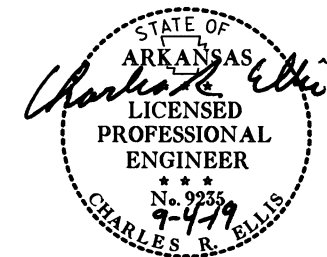
SHEET 1 OF 4
 GENERAL DETAILS OF R.C. BOX CULVERT
 GENERAL NOTES &
 LONGITUDINAL SECTION LENGTH SCHEDULE
 SPECIAL DETAILS

V: L115 D061460_culvert.dgn

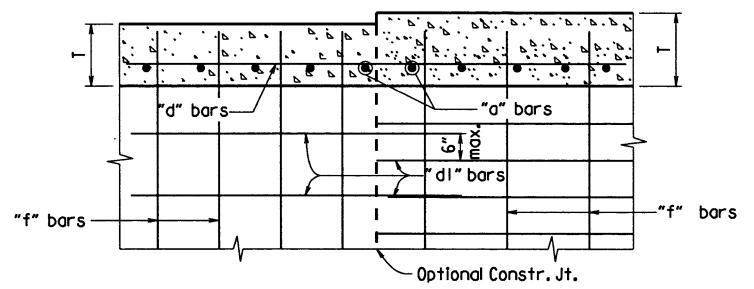
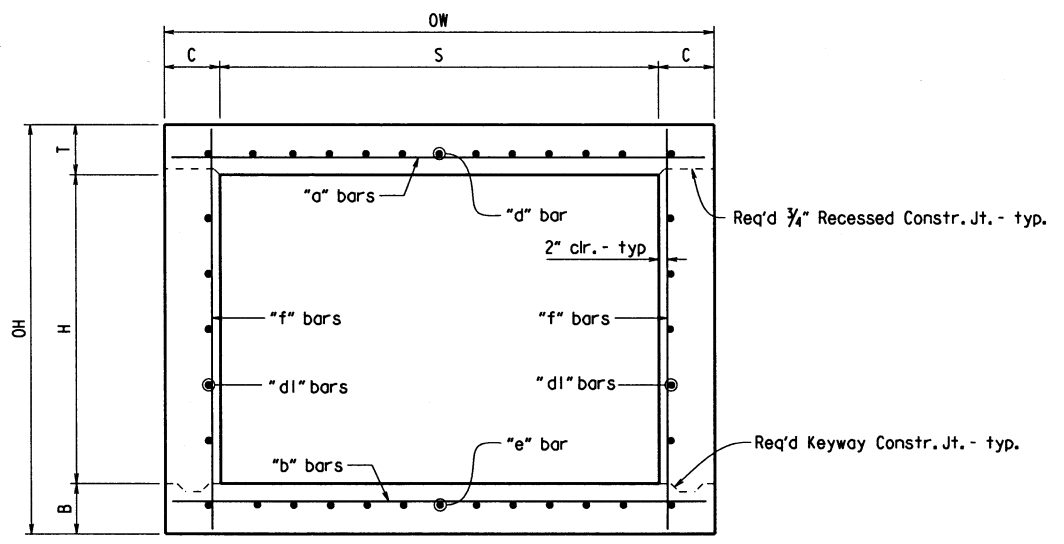


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061460		11	40

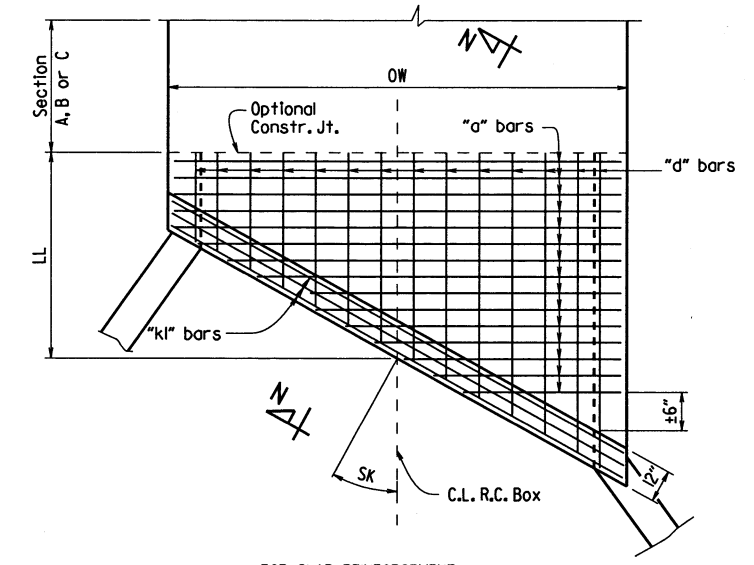
① SPECIAL DETAILS



Note: When top slab of culvert serves as finished roadway surface, see General Notes on Sheet 1 of 4.

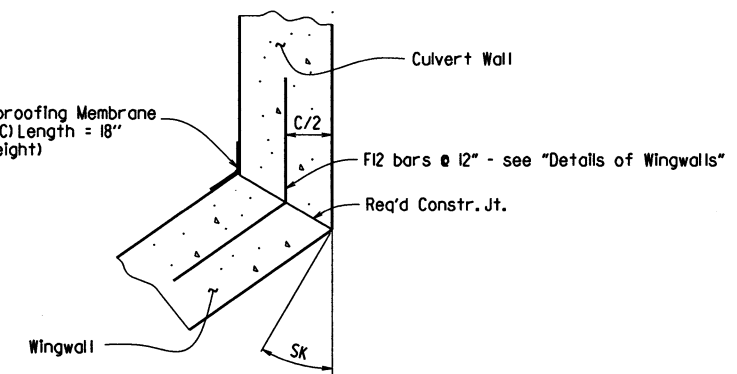


LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS
TOP SLAB SHOWN, BOTTOM SLAB SIMILAR

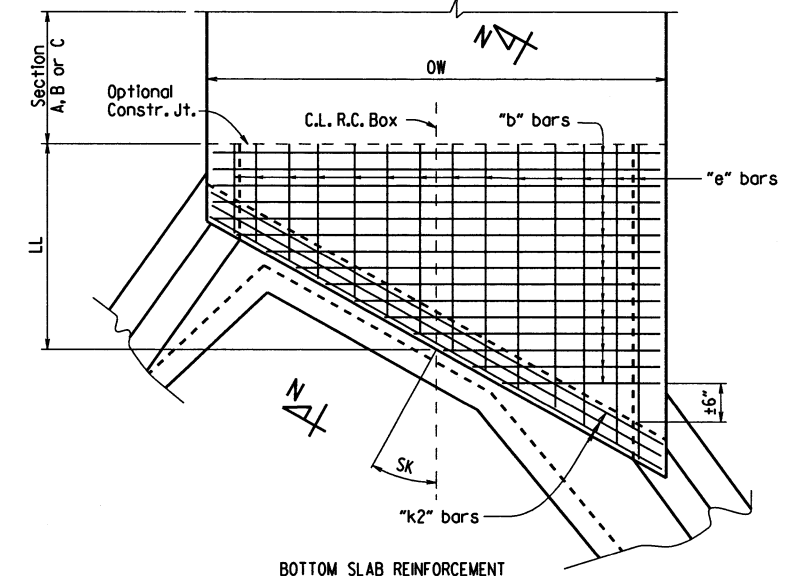


TOP SLAB REINFORCEMENT

TYPICAL SECTION M-M



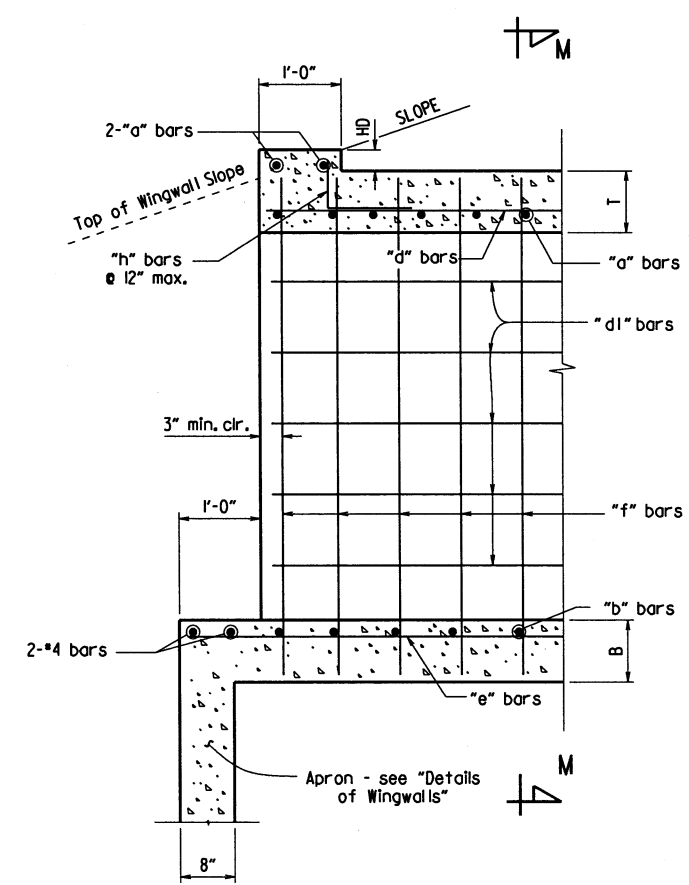
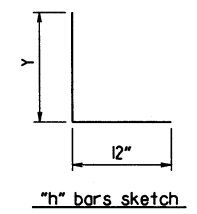
WINGWALL ATTACHMENT
See "Details of Wingwalls" for additional information and wingwall details.



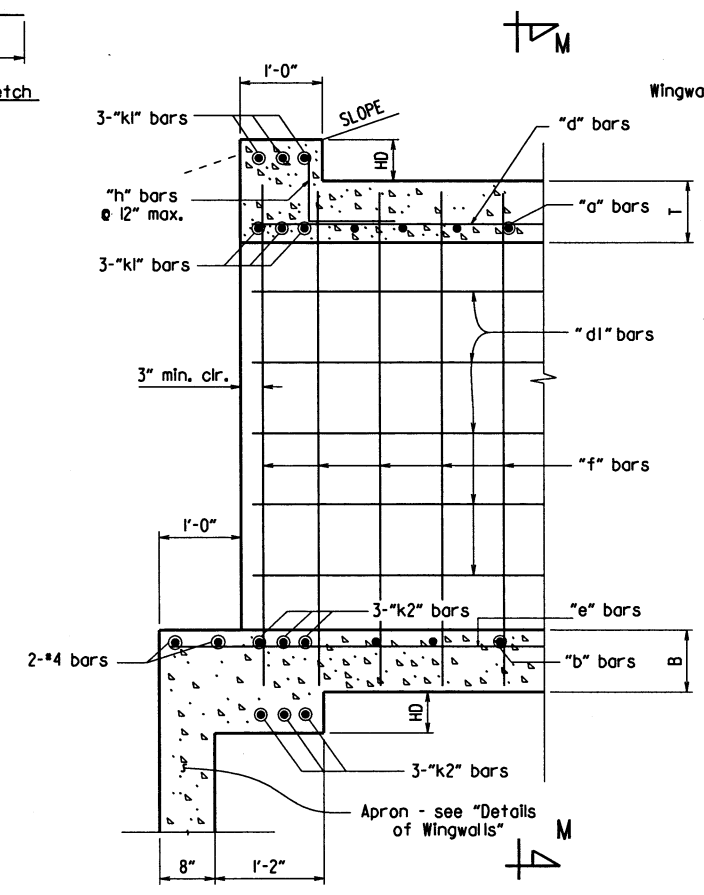
SKewed END SECTION DETAILS

SHEET 2 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT
DETAILS OF SINGLE BARREL
R.C. BOX CULVERT

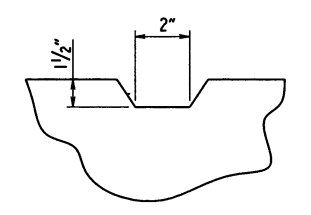
SPECIAL DETAILS



PART LONGITUDINAL SECTION
(Non-Skewed Ends)



PART LONGITUDINAL SECTION N-N
(Skewed Ends)



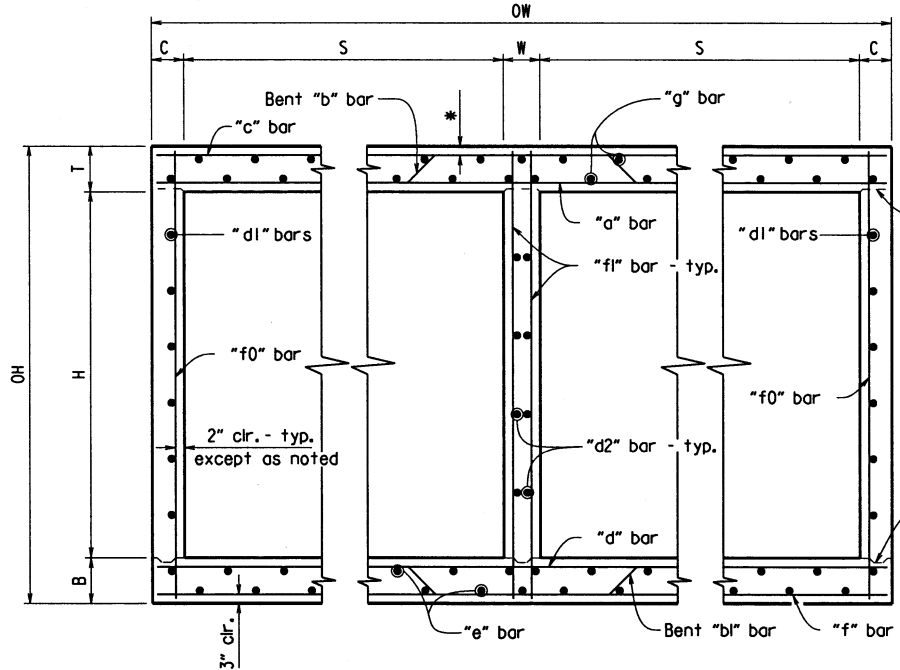
TYPICAL KEYWAY DETAIL
(All Construction Joints)

V:\115\061460_culvert.dgn

*2" cl. for fill depth (D) greater than 2 ft.
 2 1/2" cl. for fill depth (D) equal to or less than 2 ft.

Note: When top slab of culvert serves as finished roadway surface, see General Notes on Sheet 1 of 4.

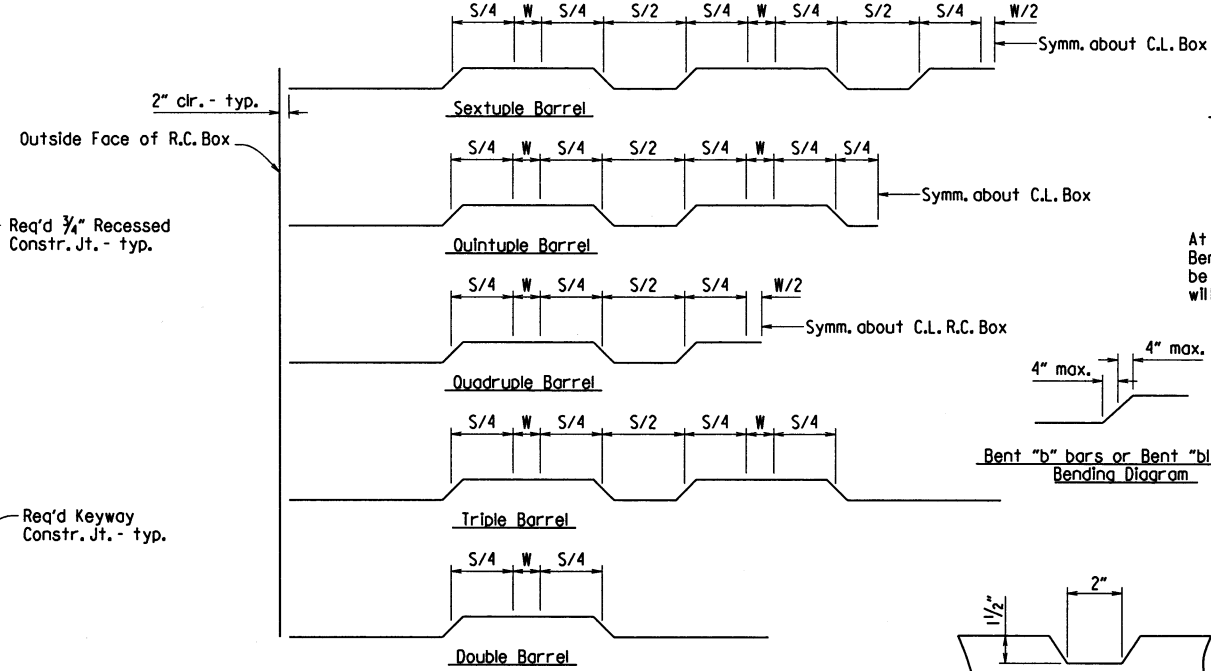
DATE REVISED	DATE FILMED	REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		12	40
				JOB NO.		061460		



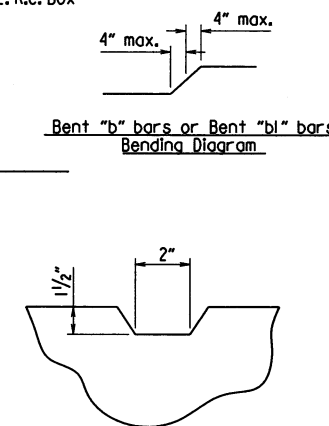
TYPICAL SECTION M-M

Top Slab
 Straight "c" bars shall alternate with Bent "b" bars in top.
 Straight "a" bars shall alternate with Bent "b" bars in bottom.

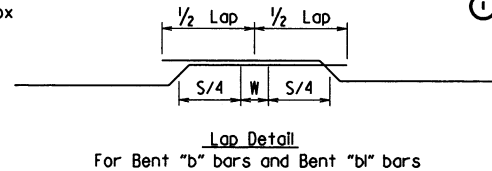
Bottom Slab
 Straight "d" bars shall alternate with Bent "bl" bars in top.
 Straight "f" bars shall alternate with Bent "bl" bars in bottom.



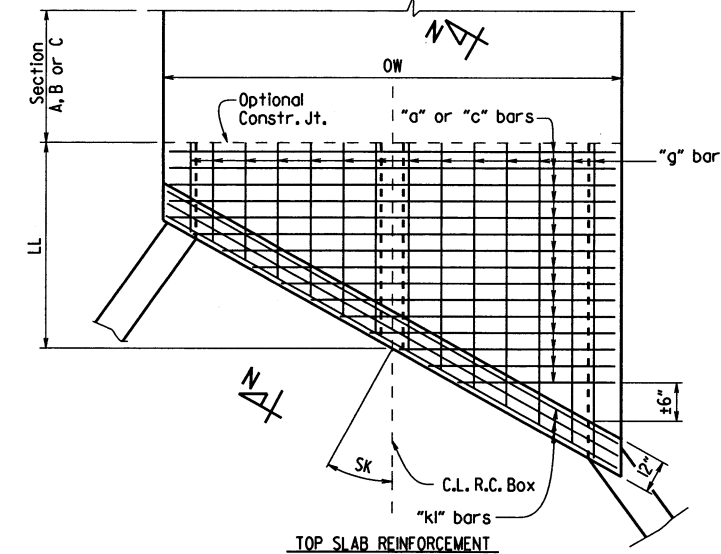
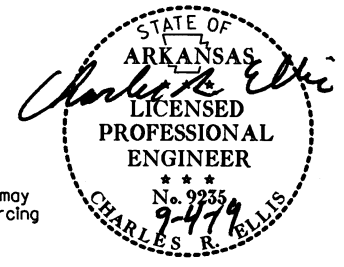
Bent "b" bars or Bent "bl" bars sketch



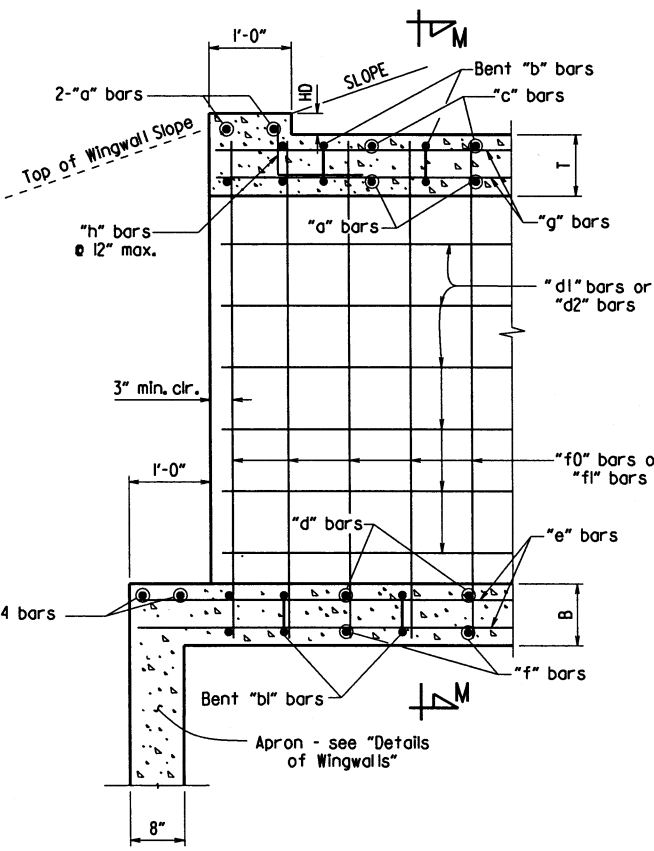
TYPICAL KEYWAY DETAIL
 (All Construction Joints)



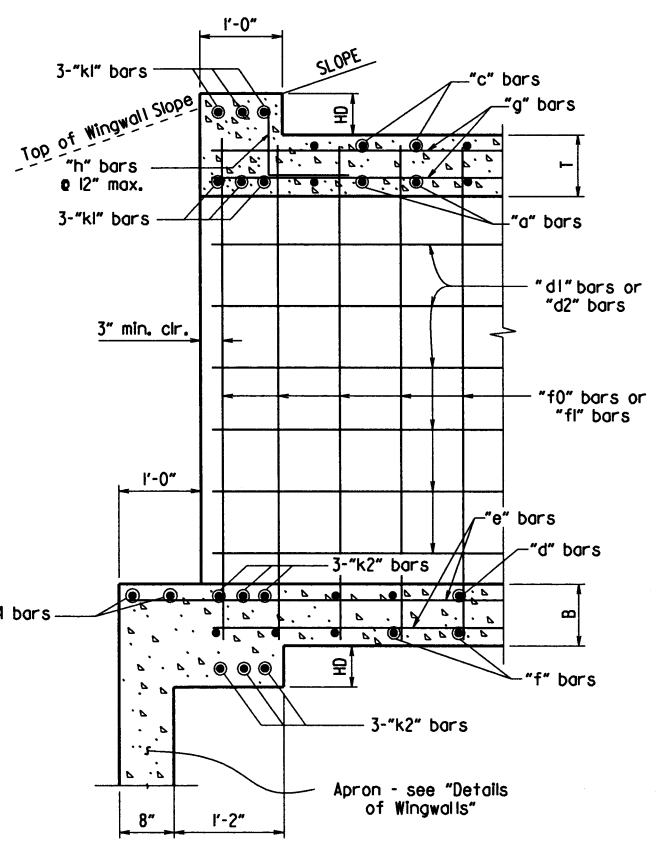
At the Contractor's option in lieu of providing Bent "b" or Bent "bl" bars, one bar top and bottom of equivalent size may be substituted for each bent bar. Payment for the reinforcing will be based on the weight of the "b" or "bl" bar.



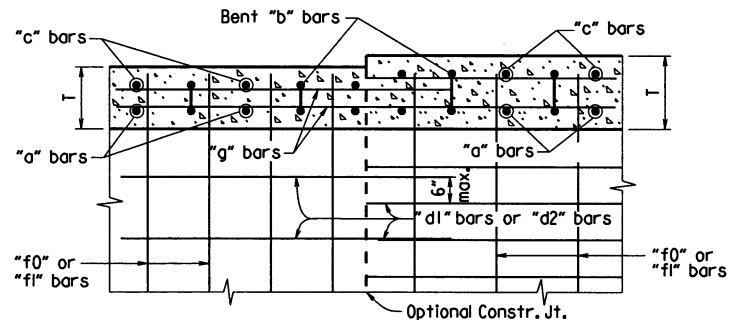
TOP SLAB REINFORCEMENT
 Straight "c" bars in top.
 Straight "a" bars in bottom.



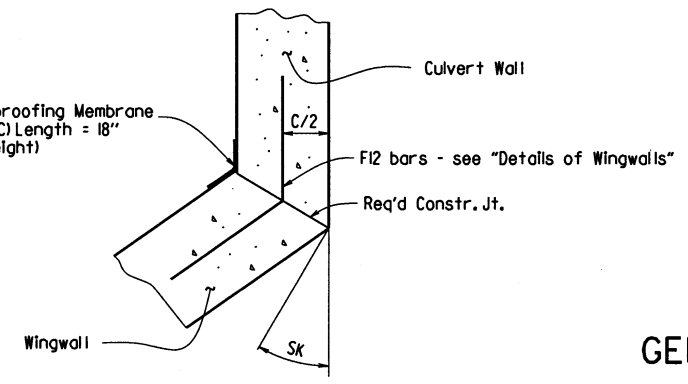
PART LONGITUDINAL SECTION
 (Non-Skewed Ends)



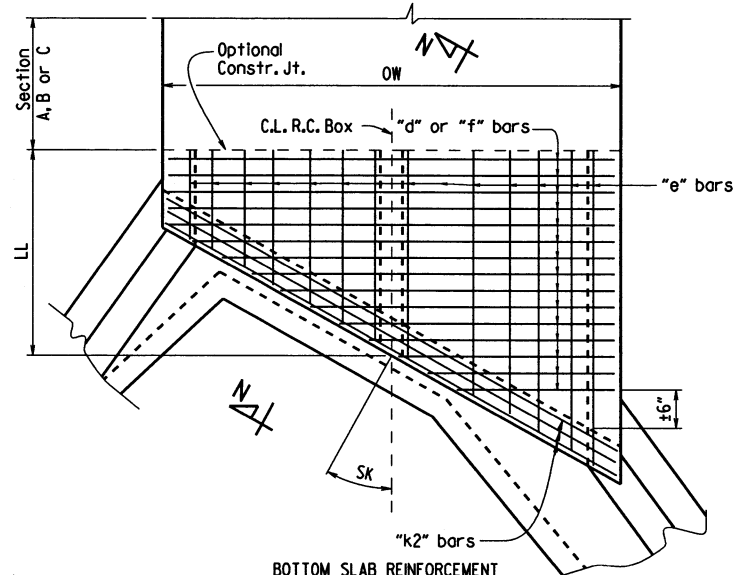
PART LONGITUDINAL SECTION N-N
 (Skewed Ends)



LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS
 TOP SLAB SHOWN, BOTTOM SLAB SIMILAR



WINGWALL ATTACHMENT
 See "Details of Wingwalls" for additional information and wingwall details.



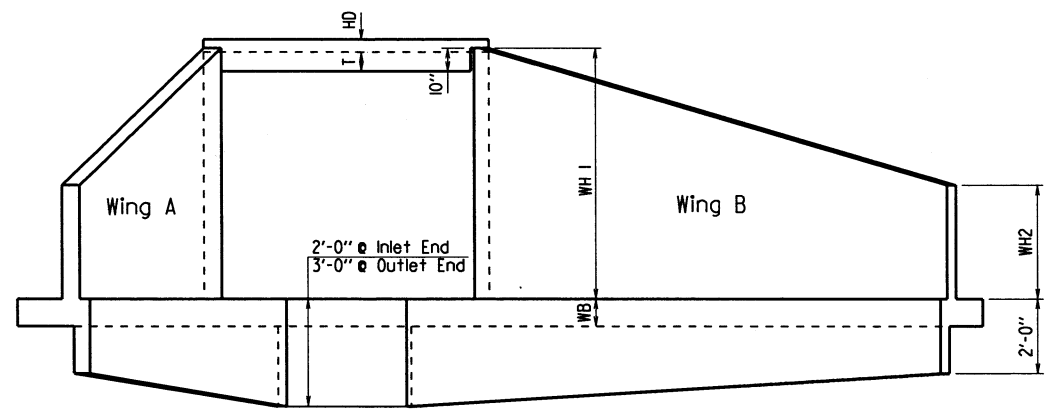
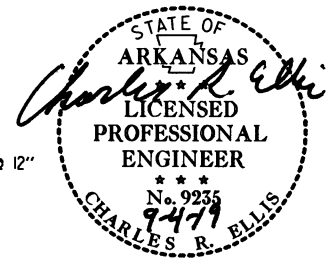
BOTTOM SLAB REINFORCEMENT
 Straight "d" bars in top.
 Straight "f" bars in bottom.

SKewed END SECTION DETAILS

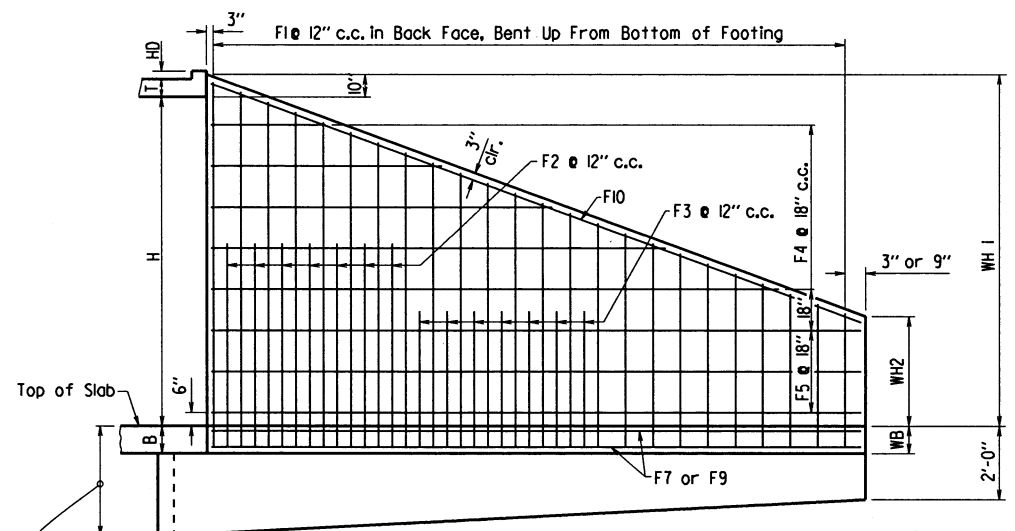
SHEET 3 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT
DETAILS OF MULTI-BARREL R.C. BOX CULVERT
SPECIAL DETAILS

V L115 061460.culvert.dgn

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061460	13	40	
(1) SPECIAL DETAILS								

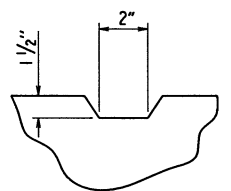


END ELEVATION
Flared Wingwalls Shown

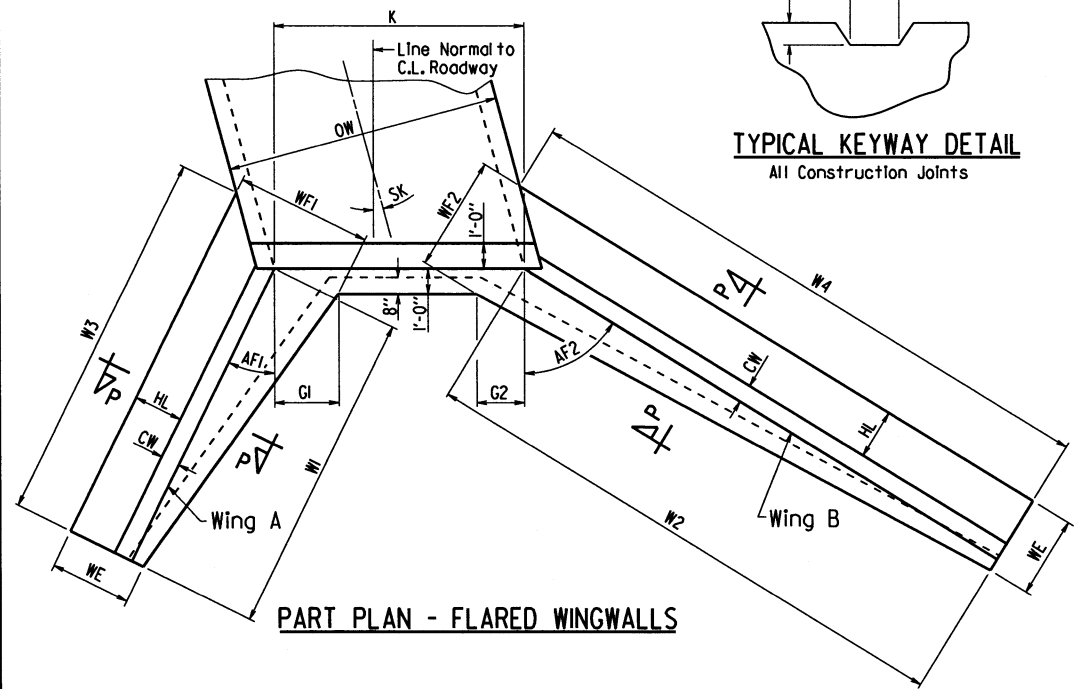


WINGWALL ELEVATION
Showing Back Face Reinforcement

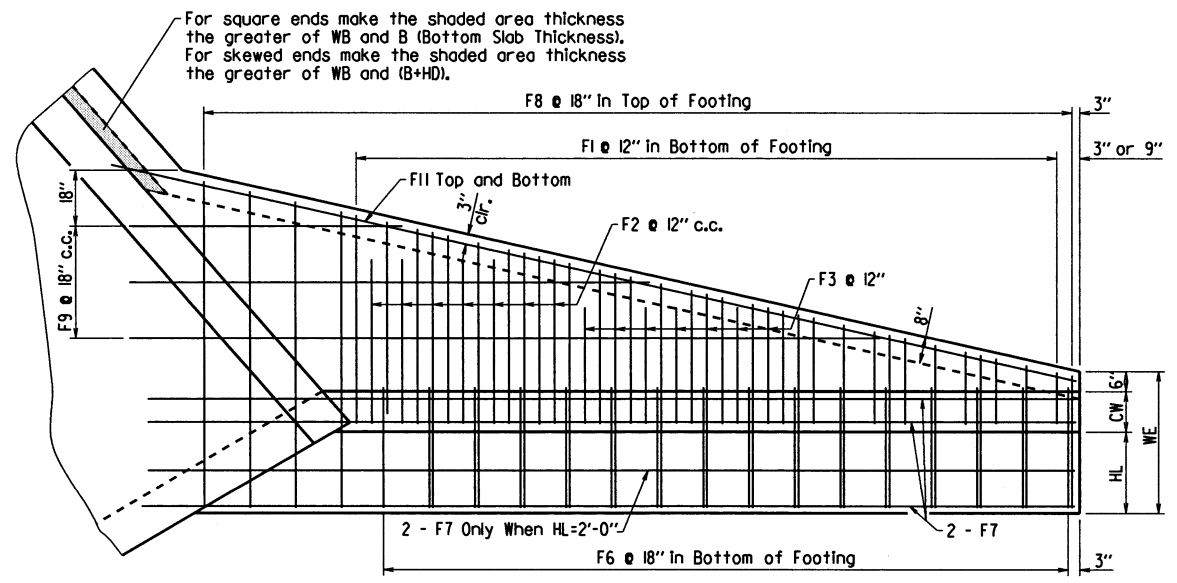
Note: See "Wingwall Section P-P" for additional details and reinforcing.



TYPICAL KEYWAY DETAIL
All Construction Joints

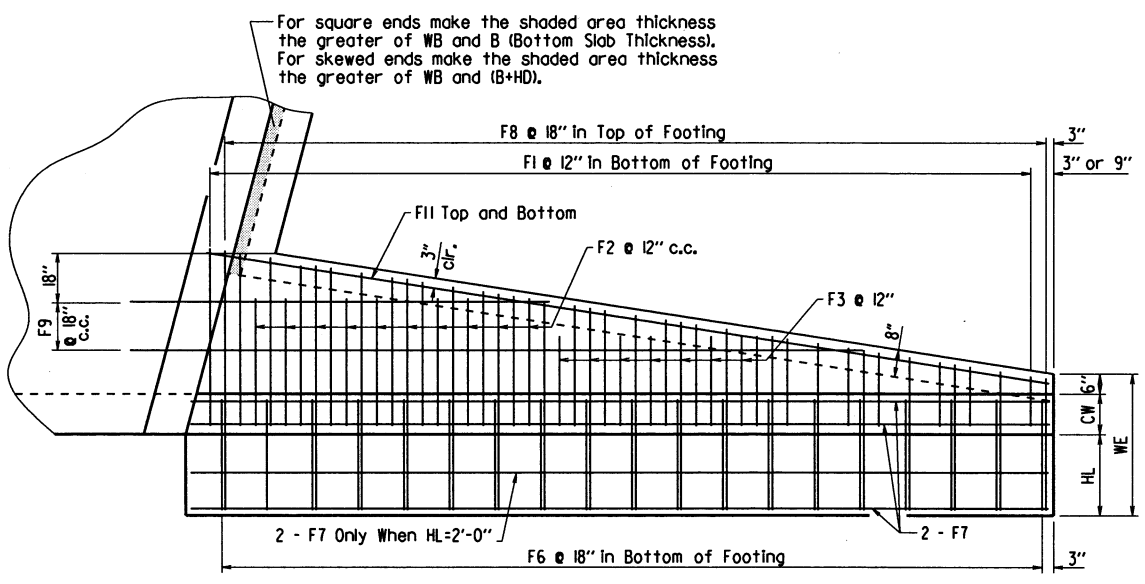


PART PLAN - FLARED WINGWALLS

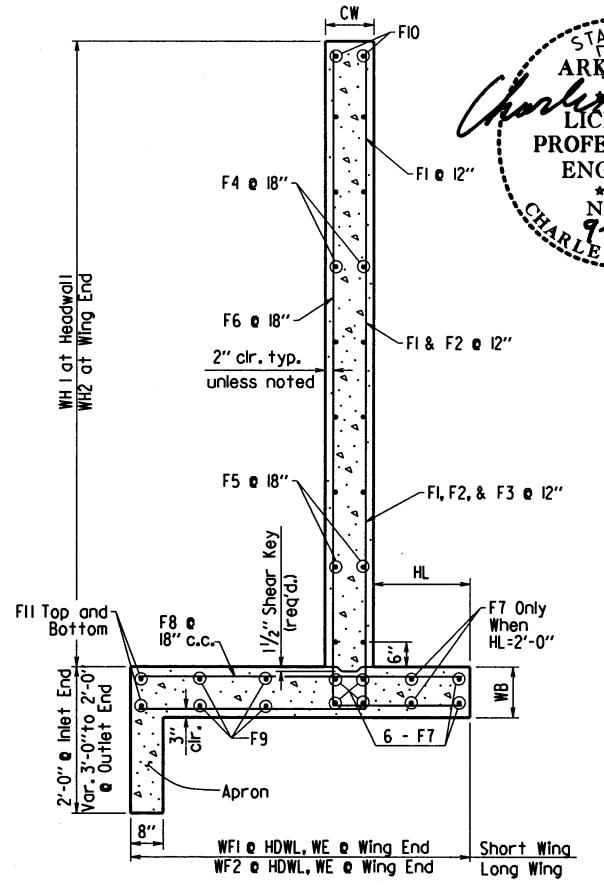


PLAN - FLARED WINGWALLS
Showing Footing Reinforcement

For square ends make the shaded area thickness the greater of WB and B (Bottom Slab Thickness).
For skewed ends make the shaded area thickness the greater of WB and (B+HD).



PLAN - PARALLEL WINGWALLS
Showing Footing Reinforcement

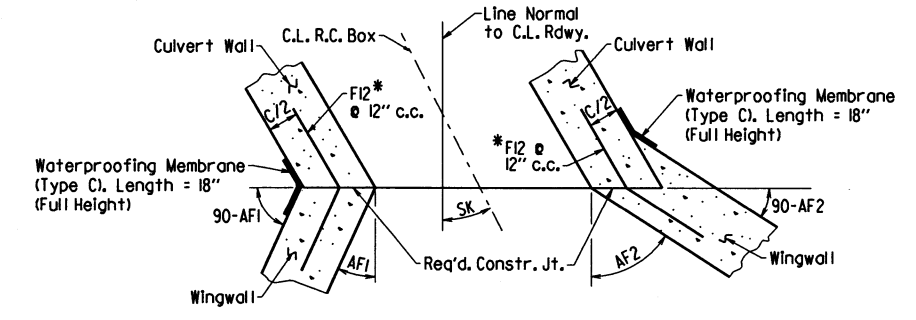


WINGWALL SECTION P-P

Short Wing = (AF1+SK)
Long Wing = (AF2-SK)

F1, F2, F3, & F6 BARS ***F12 BAR**

*F12 is a straight bar for parallel wingwalls

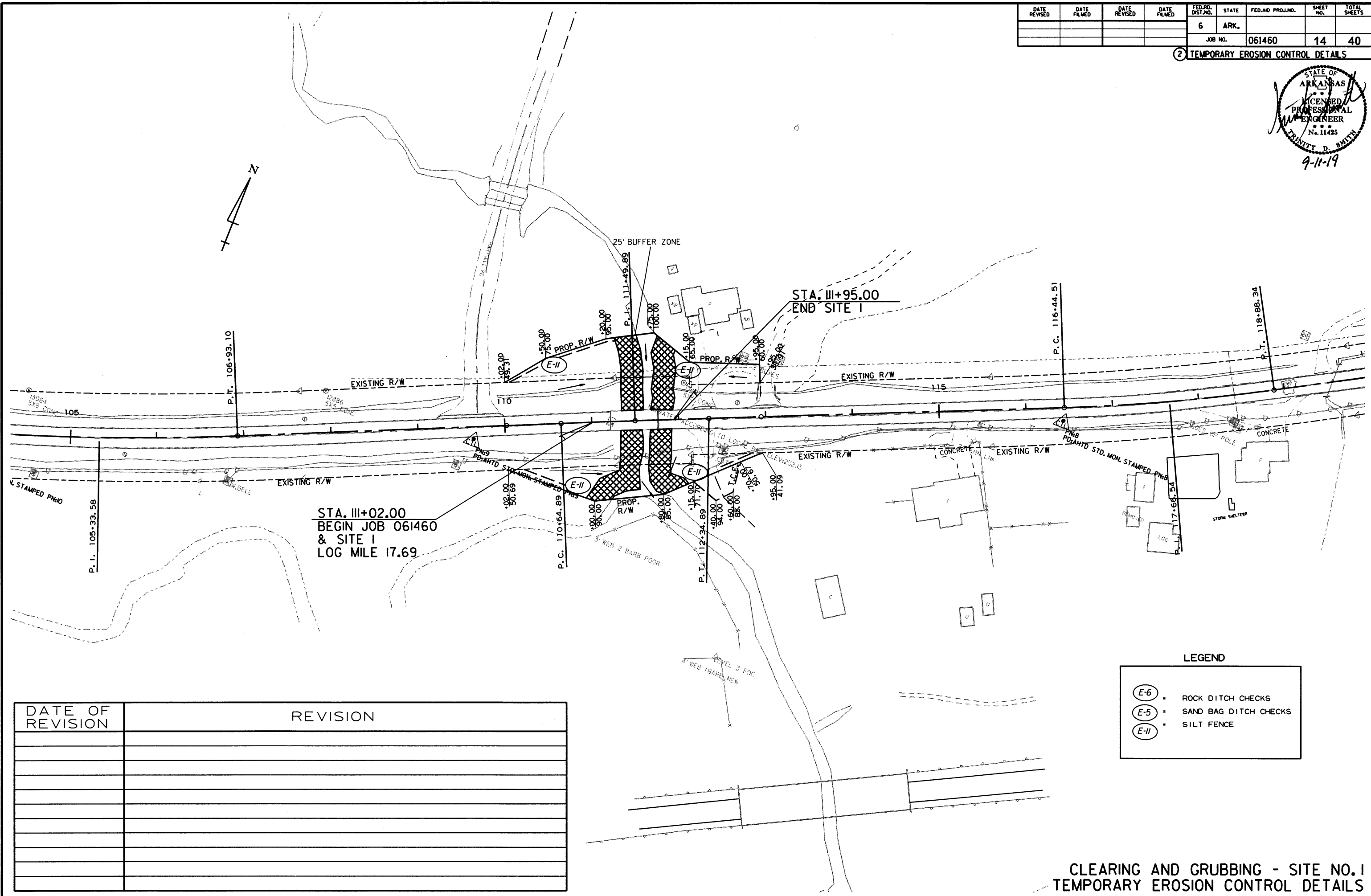


CONSTRUCTION JOINTS
Flared Wingwalls Shown

V L115 B061460.culvert.dgn

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061460		14	40

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

(E-6)	ROCK DITCH CHECKS
(E-5)	SAND BAG DITCH CHECKS
(E-II)	SILT FENCE

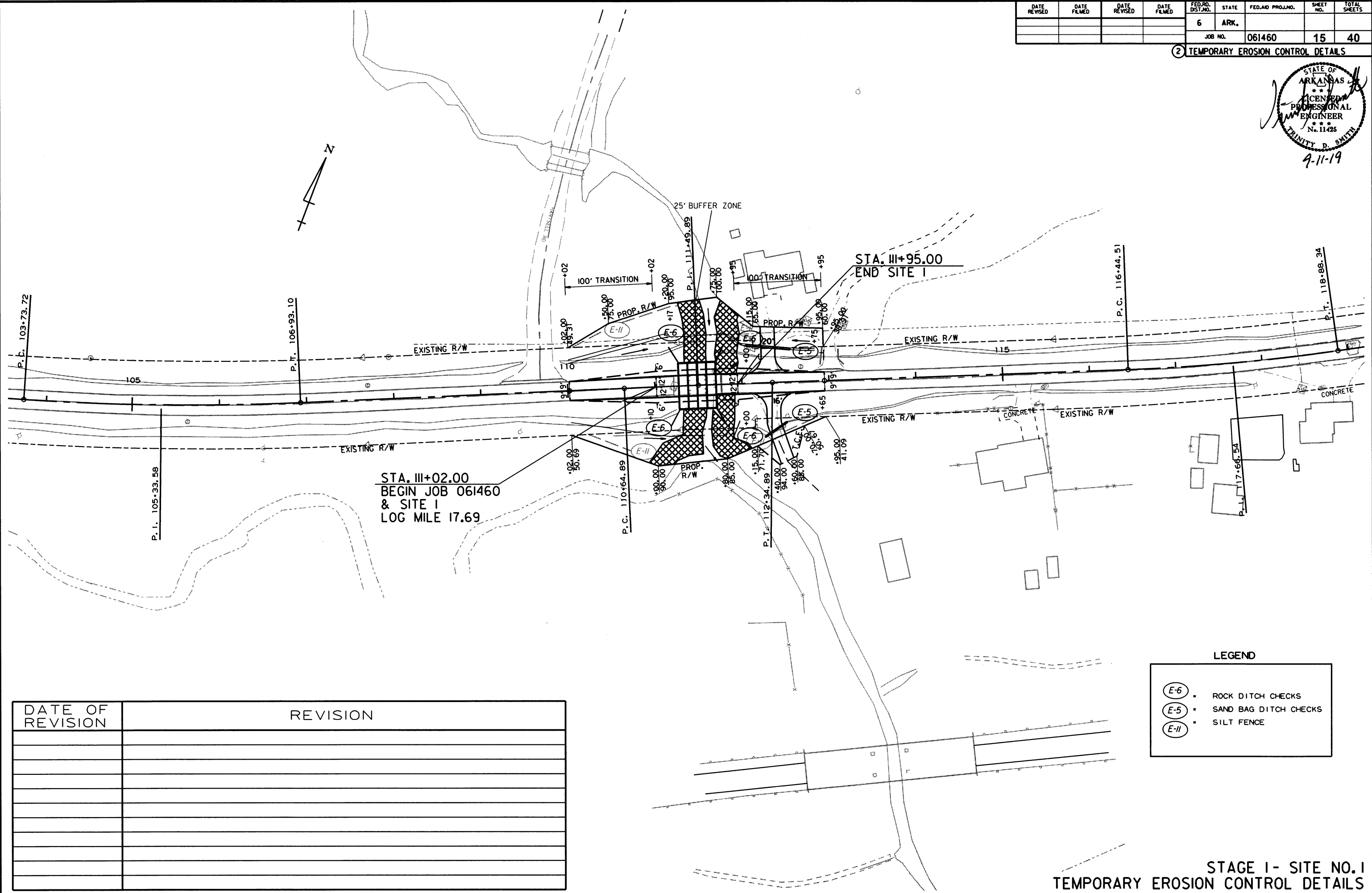
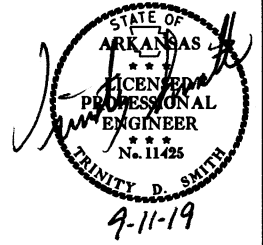
DATE OF REVISION	REVISION

CLEARING AND GRUBBING - SITE NO. 1
TEMPORARY EROSION CONTROL DETAILS

9/5/2019
R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		15	40
				JOB NO. 061460				

② TEMPORARY EROSION CONTROL DETAILS



STA. III+02.00
 BEGIN JOB 061460
 & SITE I
 LOG MILE 17.69

STA. III+95.00
 END SITE I

LEGEND

	ROCK DITCH CHECKS
	SAND BAG DITCH CHECKS
	SILT FENCE

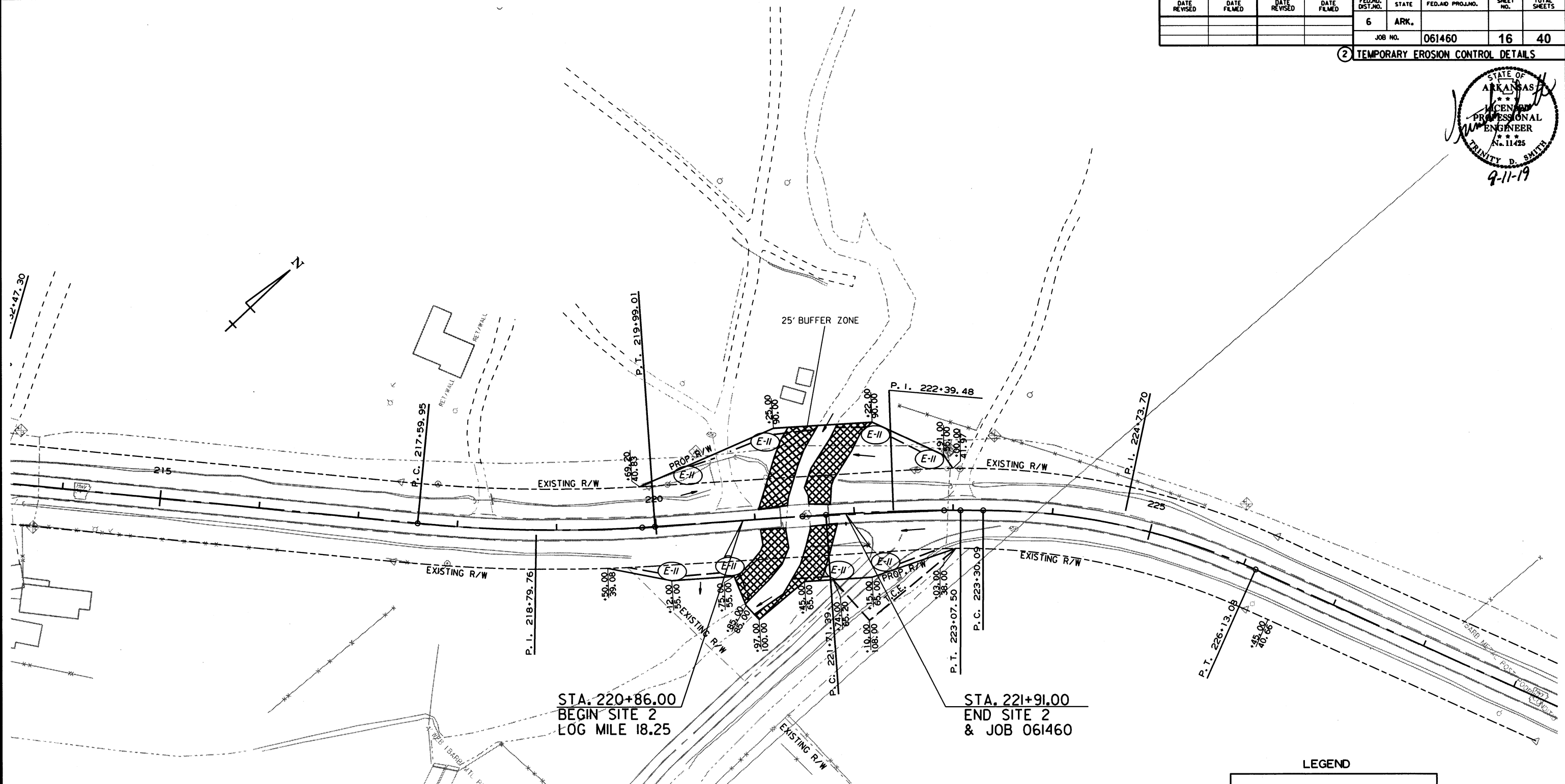
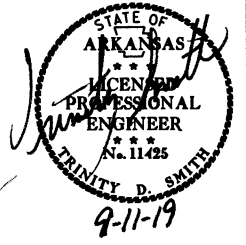
DATE OF REVISION	REVISION

STAGE I - SITE NO. 1
 TEMPORARY EROSION CONTROL DETAILS

9/5/2019 R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
							JOB NO. 061460	16 40

2 TEMPORARY EROSION CONTROL DETAILS



STA. 220+86.00
BEGIN SITE 2
LOG MILE 18.25

STA. 221+91.00
END SITE 2
& JOB 061460

LEGEND

(E-6)	•	ROCK DITCH CHECKS
(E-5)	•	SAND BAG DITCH CHECKS
(E-II)	•	SILT FENCE

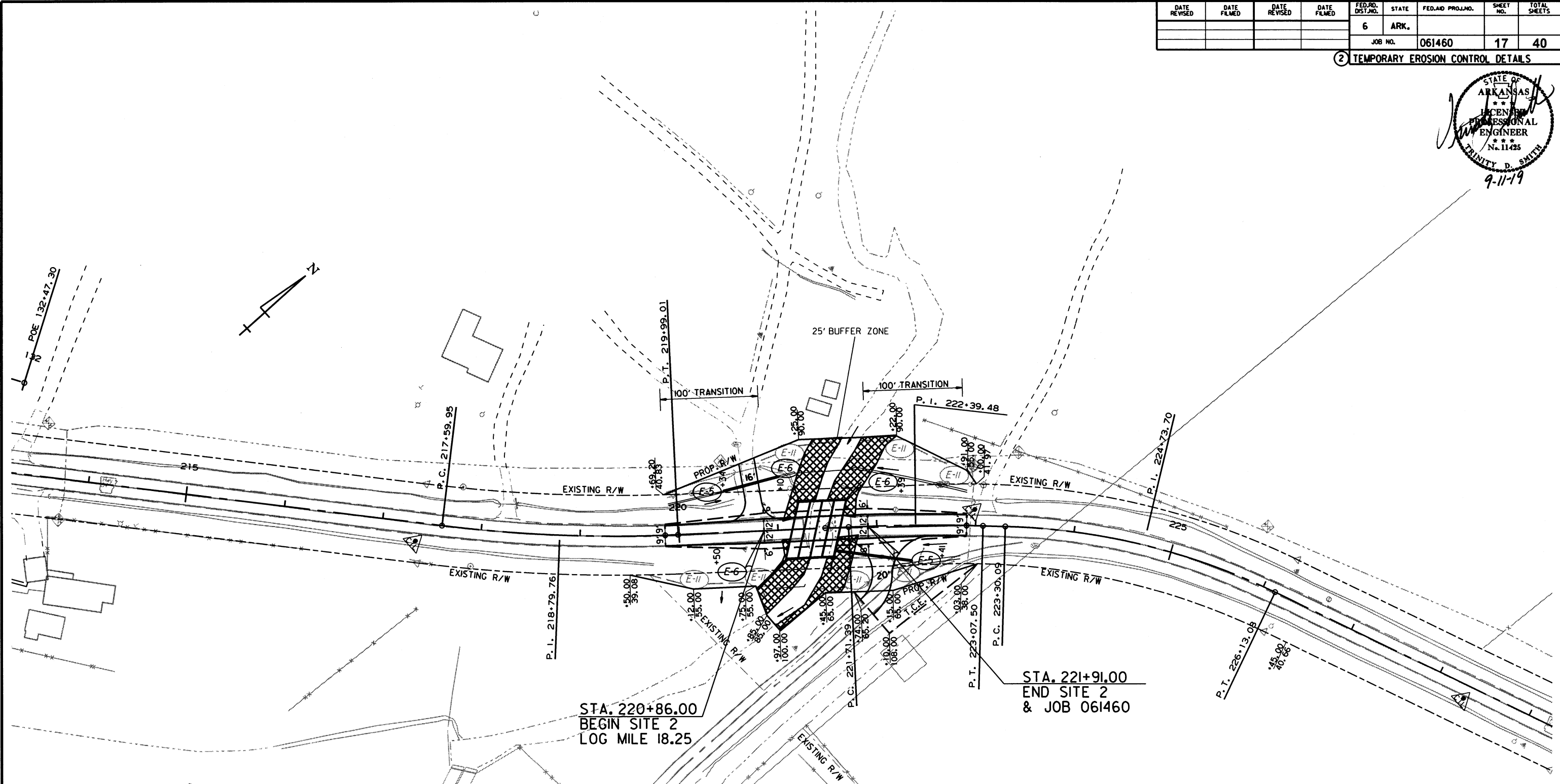
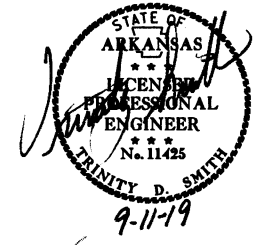
DATE OF REVISION	REVISION

CLEARING AND GRUBBING - SITE NO. 2
TEMPORARY EROSION CONTROL DETAILS

9/5/2019
R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061460		17	40

② TEMPORARY EROSION CONTROL DETAILS



STA. 220+86.00
BEGIN SITE 2
LOG MILE 18.25

STA. 221+91.00
END SITE 2
& JOB 061460

DATE OF REVISION	REVISION

LEGEND

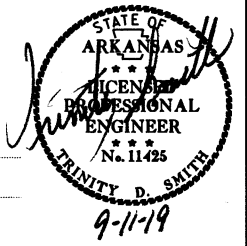
	ROCK DITCH CHECKS
	SAND BAG DITCH CHECKS
	SILT FENCE

STAGE I - SITE NO. 2
TEMPORARY EROSION CONTROL DETAILS

9/5/2019
R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		18	40
				JOB NO. 061460				

② MAINTENANCE OF TRAFFIC DETAILS



SEQUENCE OF CONSTRUCTION

STAGE I
 ESTABLISH DETOUR ROUTES.
 CLOSE THE FIRST SITE ACCORDING TO THE REQUIREMENTS OF THE MOT SP.
 REMOVE EXISTING BRIDGE AT THE FIRST SITE.
 CONSTRUCT R.C. BOX CULVERT AT THE FIRST SITE.
 OPEN THE ROAD AT THE FIRST SITE.
 CLOSE THE SECOND SITE ACCORDING TO THE REQUIREMENTS OF THE MOT SP.
 REMOVE EXISTING BRIDGE AT THE SECOND SITE.
 CONSTRUCT R.C. BOX CULVERT AT THE SECOND SITE.
 OPEN THE ROAD AT THE SECOND SITE.
 END OF JOB
 INSTALL FINAL LIFT OF SURFACE.
 INSTALL FINAL STRIPING.

①

DETOUR (1) M4-8 (24" X 12")

EAST (1) M3-2 (24" X 12")

84 (1) MI-5 (24" X 24")

(1) M5-IL (21" X 15")

②

ROAD CLOSED (1) R11-3A (60" X 30")
 2.55 MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR (1) M4-10R (48" X 18")

8' BARR. TYP. III LT.

③

DETOUR (1) M4-8 (24" X 12")

EAST (1) M3-2 (24" X 12")

84 (1) MI-5 (24" X 24")

(1) M6-IL (21" X 15")

④

DETOUR (1) M4-8 (24" X 12")

WEST (1) M3-4 (24" X 12")

84 (1) MI-5 (24" X 24")

(1) M6-IL (21" X 15")

⑤

END (1) M4-8A (24" X 18")

DETOUR WEST (1) M3-4 (24" X 12")

84 (1) MI-5 (24" X 24")

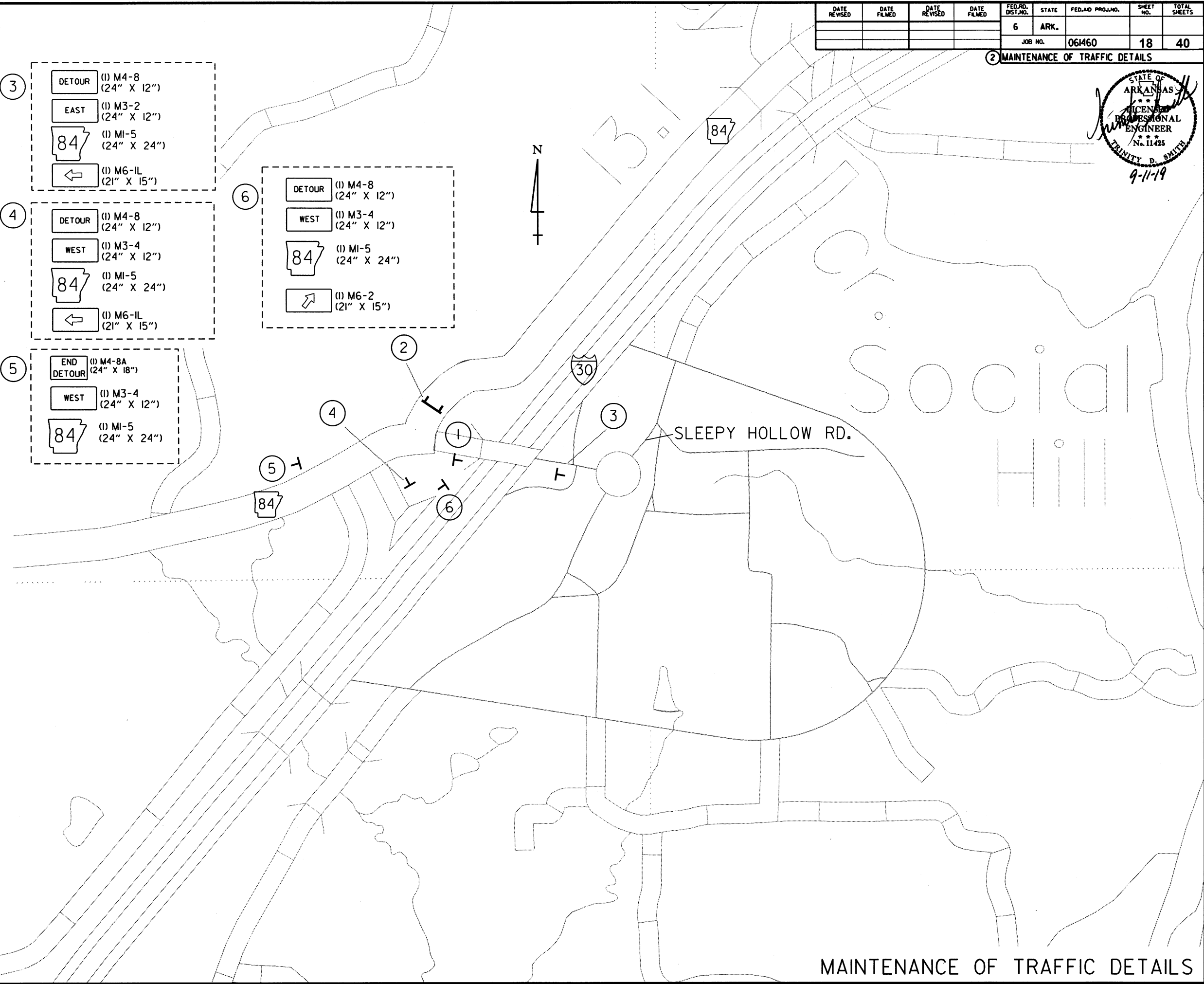
⑥

DETOUR (1) M4-8 (24" X 12")

WEST (1) M3-4 (24" X 12")

84 (1) MI-5 (24" X 24")

(1) M6-2 (21" X 15")



9/5/2019 R061460.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061460						19	40	

SEQUENCE OF CONSTRUCTION

STAGE I

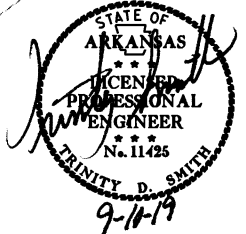
ESTABLISH DETOUR ROUTES.
CLOSE THE FIRST SITE ACCORDING TO THE REQUIREMENTS OF THE MOT SP.
REMOVE EXISTING BRIDGE AT THE FIRST SITE.
CONSTRUCT R.C. BOX CULVERT AT THE FIRST SITE.
OPEN THE ROAD AT THE FIRST SITE.

CLOSE THE SECOND SITE ACCORDING TO THE REQUIREMENTS OF THE MOT SP.
REMOVE EXISTING BRIDGE AT THE SECOND SITE.
CONSTRUCT R.C. BOX CULVERT AT THE SECOND SITE.
OPEN THE ROAD AT THE SECOND SITE.

END OF JOB

INSTALL FINAL LIFT OF SURFACE.
INSTALL FINAL STRIPING.

2 MAINTENANCE OF TRAFFIC DETAILS



1

ROAD CLOSED (I) R11-3A (60" X 30")
2.67 MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR (I) M4-10L (48" X 18")

8' BARR. TYP. III RT.

3

DETOUR (I) M4-8 (24" X 12")
WEST (I) M3-4 (24" X 12")

84 (I) M1-5 (24" X 24")

(I) M6-1R (21" X 15")

4

END DETOUR (I) M4-8A (24" X 18")
EAST (I) M3-2 (24" X 12")

84 (I) M1-5 (24" X 24")

5

DETOUR (I) M4-8 (24" X 12")
EAST (I) M3-2 (24" X 12")

84 (I) M1-5 (24" X 24")

(I) M6-2 (21" X 15")

2

DETOUR (I) M4-8 (24" X 12")
EAST (I) M3-2 (24" X 12")

84 (I) M1-5 (24" X 24")

(I) M6-1R (21" X 15")

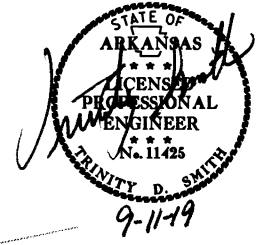
9/5/2019

R061460.DGN

MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061460							20	40

② MAINTENANCE OF TRAFFIC DETAILS



SEQUENCE OF CONSTRUCTION

STAGE I
 ESTABLISH DETOUR ROUTES.
 CLOSE THE FIRST SITE ACCORDING TO THE REQUIREMENTS OF THE MOT SP.
 REMOVE EXISTING BRIDGE AT THE FIRST SITE.
 CONSTRUCT R.C. BOX CULVERT AT THE FIRST SITE.
 OPEN THE ROAD AT THE FIRST SITE.
 CLOSE THE SECOND SITE ACCORDING TO THE REQUIREMENTS OF THE MOT SP.
 REMOVE EXISTING BRIDGE AT THE SECOND SITE.
 CONSTRUCT R.C. BOX CULVERT AT THE SECOND SITE.
 OPEN THE ROAD AT THE SECOND SITE.
 END OF JOB
 INSTALL FINAL LIFT OF SURFACE.
 INSTALL FINAL STRIPING.

① ROAD CLOSED 0.74 MILES AHEAD LOCAL TRAFFIC ONLY (1) RII-3A (60" X 30")

		8' BARR. TYP. III LT.
		8' BARR. TYP. III RT.

