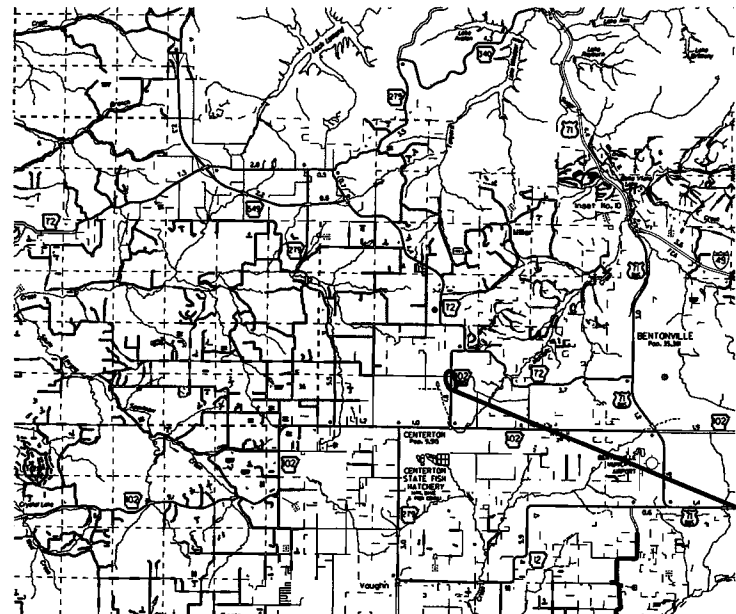


JOB 090471

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				6	ARK.			
				JOB NO.	090471		1	41



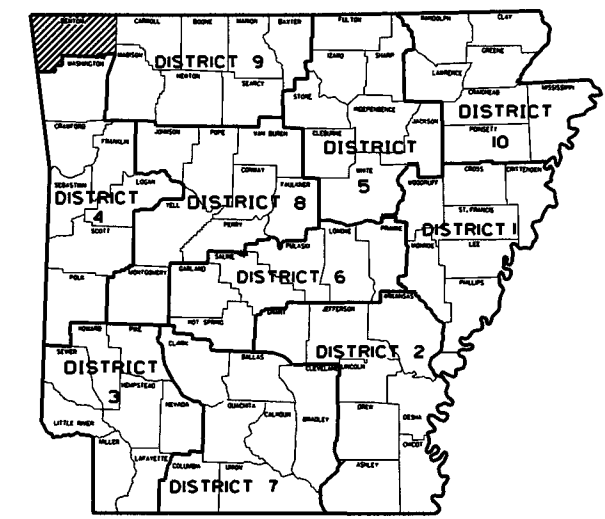
VICINITY MAP

ARKANSAS DEPARTMENT OF TRANSPORTATION
 CONSTRUCTION PLANS FOR STATE HIGHWAY

—
 —
 —

HWY. 102B / SEBA RD. SIGNAL & PED. IMPVTS. (CENTERTON) (S)

PROJECT LOCATION
 BENTON COUNTY
 ROUTE 102B SECTION 2B



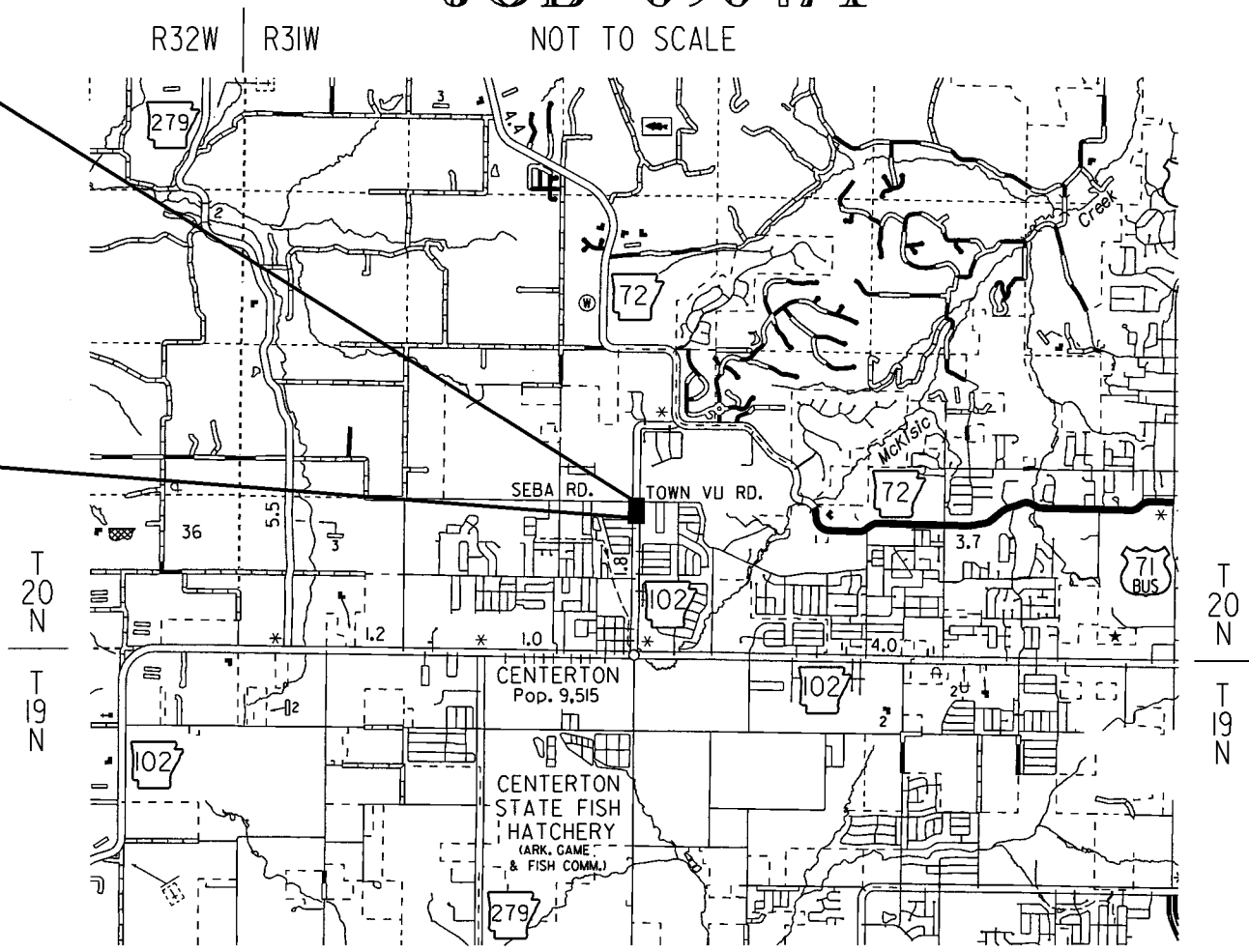
ARK. HWY. DIST. NO. 9

FED. AID PROJ. STPU - TAPF - 9082(2)

JOB 090471

STA. 78+36.00
 END JOB 090471
 LOG MILE 1.06

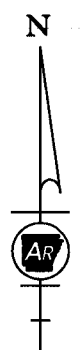
STA. 68+90.29
 BEGIN JOB 090471
 LOG MILE 0.88



NOT TO SCALE

DESIGN TRAFFIC DATA

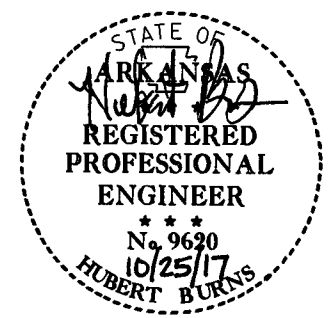
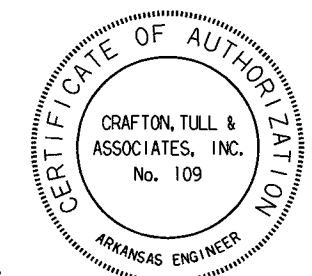
DESIGN YEAR	-----	2037
2017 ADT	-----	4700
2037 ADT	-----	5700
2037 DHV	-----	627
DIRECTIONAL DISTRIBUTION	-----	60%
TRUCKS	-----	3%
DESIGN SPEED	-----	40 MPH



BEGINNING OF PROJECT	MID-POINT OF PROJECT	END OF PROJECT
LAT. = N 36°22'16"	LAT. = N 36°22'21"	LAT. = N 36°22'26"
LONG. = W 94°17'05"	LONG. = W 94°17'04"	LONG. = W 94°17'04"

LENGTH OF PROJECT CALCULATED ALONG C.L.			
GROSS LENGTH OF PROJECT	945.71	FEET OR	0.179 MILES
NET " " ROADWAY	945.71	" "	0.179
NET " " BRIDGES	0.00	" "	0.00
NET " " PROJECT	945.71	" "	0.179

P.E. JOB NO. 090471



INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS, STANDARD DRAWINGS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES
3	TYPICAL SECTIONS OF IMPROVEMENT
4-6	SPECIAL DETAILS
7-8	TEMPORARY EROSION CONTROL DETAILS
9-14	MAINTENANCE OF TRAFFIC DETAILS
15-16	PERMANENT PAVEMENT MARKING DETAILS
17-20	QUANTITIES FAP NO. STPU-9082(2)
20A	QUANTITIES FAP NO. TAPF-9082(2)
17-20	SUMMARY OF QUANTITIES AND REVISIONS
22	SURVEY CONTROL DETAILS
23-27	PLAN AND PROFILE SHEETS
28	TRAFFIC SIGNAL NOTES
29	SUMMARY OF TRAFFIC SIGNAL QUANTITIES
30-31	SIGNALIZATION PLAN SHEETS
32	SIGNALIZATION CHARTS
33	SIGNALIZATION PLAN SHEET
34-41	CROSS SECTIONS

ROADWAY STANDARD DRAWINGS

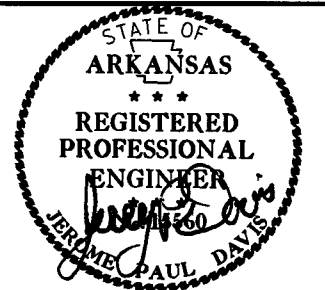
DRWG.NO	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
CG-1	CURBING DETAILS	11-29-07
DR-1	DETAILS OF DRIVEWAYS & ISLANDS	2-27-14
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9D	DETAILS OF DROP INLETS	8-22-02
FPC-9E	DETAILS OF DROP INLETS (TYPE C)	8-22-02
FPC-9M	DETAILS OF DROP INLET (TYPE MO)	8-22-02
MB-1	MAILBOX DETAILS	11-18-04
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	2-27-14
PCP-1	PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)	2-27-14
PCP-2	PLASTIC PIPE CULVERT (PVC F949)	2-27-14
PM-1	PAVEMENT MARKING DETAILS	6-01-17
PU-1	DETAILS OF PIPE UNDERDRAIN	12-08-16
SD-4	LOOP DETECTOR INSTALLATION	11-16-17
SD-5	CONTROLLER CABINET UTILITY DRAWER	9-12-13
SD-6	HEAVY DUTY PULL BOX	11-16-17
SD-8	SIGNAL HEAD PLACEMENT	12-08-16
SD-9	SERVICE POINT	11-16-17
SD-11	STEEL POLE WITH MAST ARM	11-16-17
SI-1	DETAILS OF SPECIAL ITEMS	9-12-13
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	4-13-17
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	9-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	9-02-15
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	6-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WR-1	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS	11-10-05

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 INSURE 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.
- 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.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 090471	2	41

2 INDEX OF SHEETS, STD. DWGS., GOV. SPECS., & GEN. NOTES



GOVERNING SPECIFICATIONS

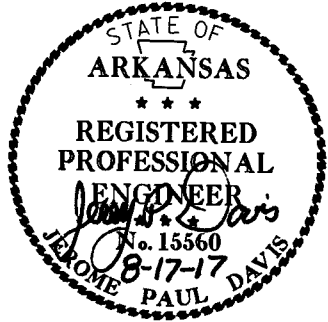
ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

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
303-1	AGGREGATE BASE COURSE
400-1	TACK COATS
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
505-1	PORTLAND CEMENT CONCRETE DRIVEWAY
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
633-1	CONCRETE WALKS, CONCRETE STEPS, AND HAND RAILING
634-1	CURBING
JOB 090471	AUTUATED CONTROLLER
JOB 090471	BIDDING REQUIREMENTS AND CONDITIONS
JOB 090471	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 090471	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 090471	CABINET DRAWER ASSEMBLY
JOB 090471	CARGO PREFERENCE ACT REQUIREMENTS
JOB 090471	CAVE DISCOVERY
JOB 090471	CONCRETE WALKS (TYPE SPECIAL)
JOB 090471	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 090471	EDGE CARD VIDEO PROCESSOR
JOB 090471	ELECTRICAL CONDUCTORS FOR LUMNAIRES
JOB 090471	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 090471	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 090471	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
JOB 090471	LED LUMINAIRE ASSEMBLY (BUG UO TYPE)
JOB 090471	LED TRAFFIC SIGNAL HEAD
JOB 090471	MANDATORY ELECTRONIC CONTRACT
JOB 090471	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 090471	OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB 090471	PLASTIC PIPE
JOB 090471	PROTECTION OF WATER QUALITY AND WETLANDS
JOB 090471	RESTRAINING CONDITION
JOB 090471	SEQUENCE OF CONSTRUCTION
JOB 090471	SERVICE POINT ASSEMBLY (TRAFFIC CONTROL DEVICES)
JOB 090471	SHORING FOR CULVERTS
JOB 090471	STORM WATER POLLUTION PREVENTION PLAN
JOB 090471	STREET NAME SIGN (MAST ARM MOUNTED)
JOB 090471	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 090471	SYSTEM LOCAL CONTROLLER
JOB 090471	UTILITY ADJUSTMENTS
JOB 090471	VIDEO DETECTOR (COLOR)
JOB 090471	WARM MIX ASPHALT
JOB 090471	WELLHEAD PROTECTION

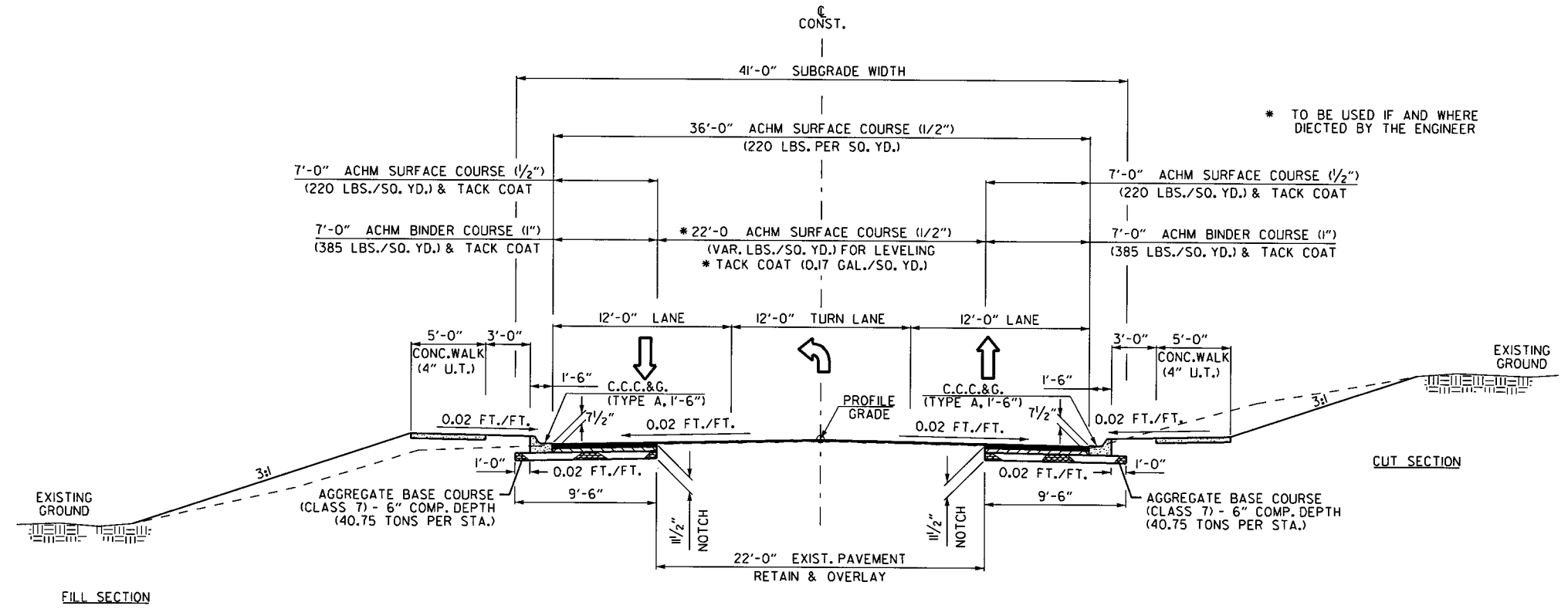
INDEX OF SHEETS, STANDARD DRAWINGS, GOVERNING SPECIFICATIONS, & GENERAL NOTES

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				JOB NO.	090471		3	41

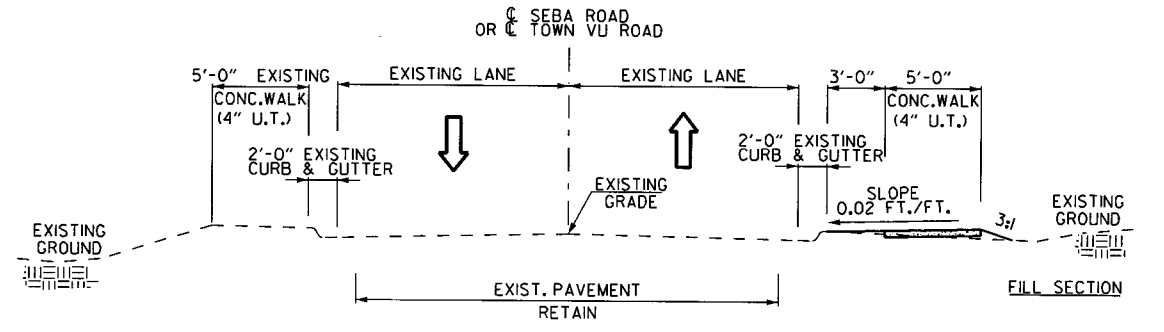
2 TYPICAL SECTIONS OF IMPROVEMENT



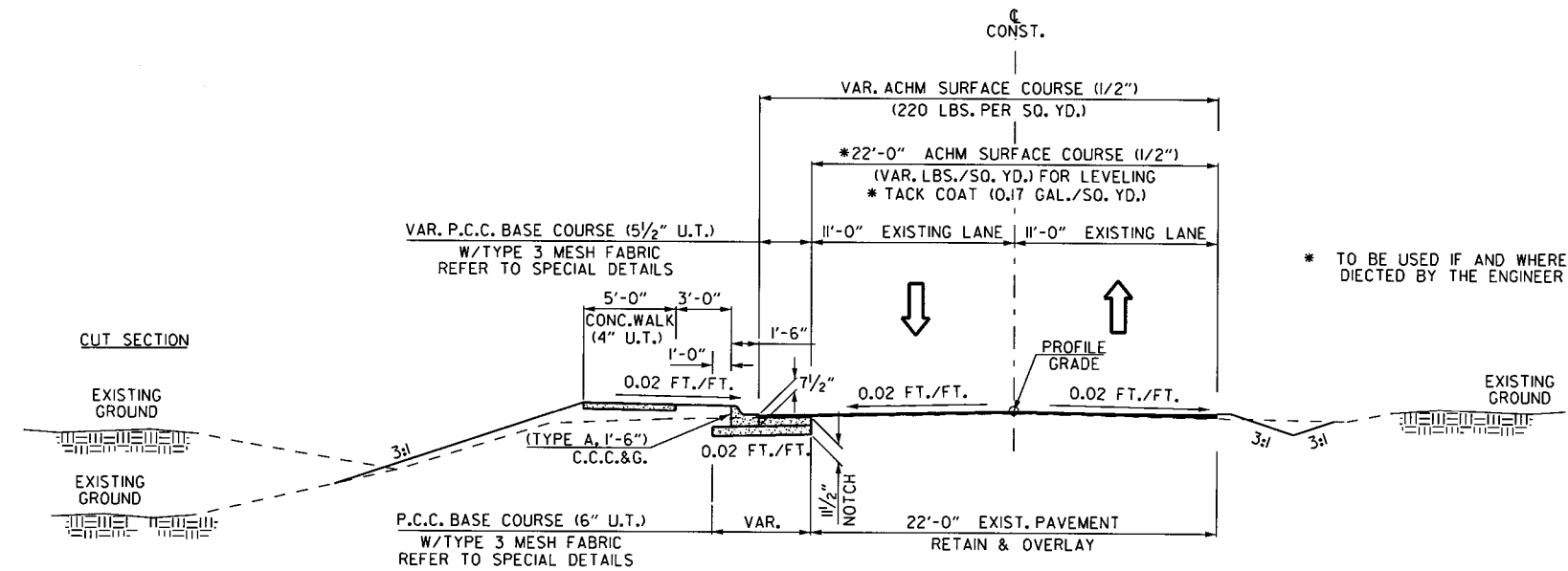
* TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER



TYPICAL SECTION OF IMPROVEMENT
HWY. 102B
NOTCH & WIDENING
STA. 71+29.00 TO STA. 78+36.00



TYPICAL SECTION OF IMPROVEMENT
SEBA ROAD & TOWN VU ROAD
SIDEWALK



TYPICAL SECTION OF IMPROVEMENT
HWY. 102B
NOTCH & WIDENING
STA. 68+90.29 TO STA. 71+29.00

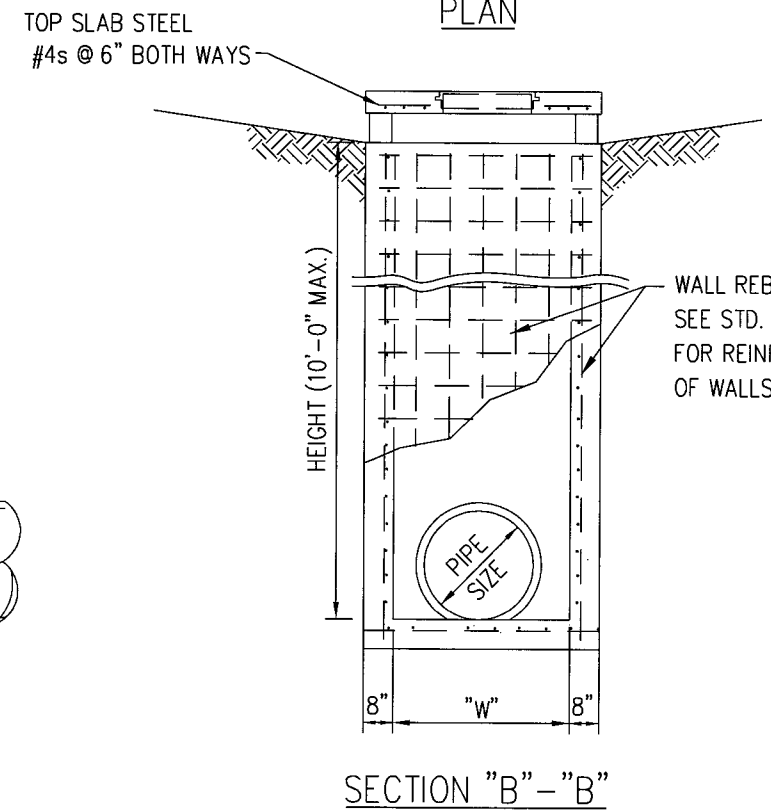
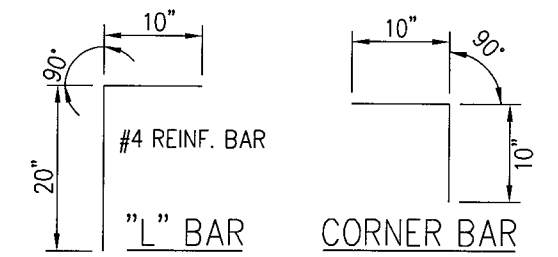
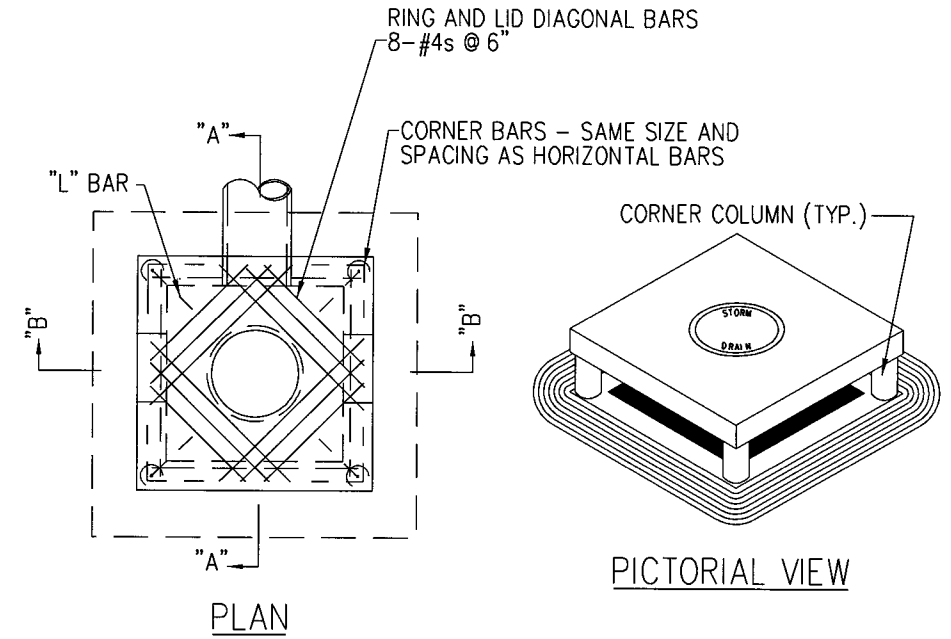
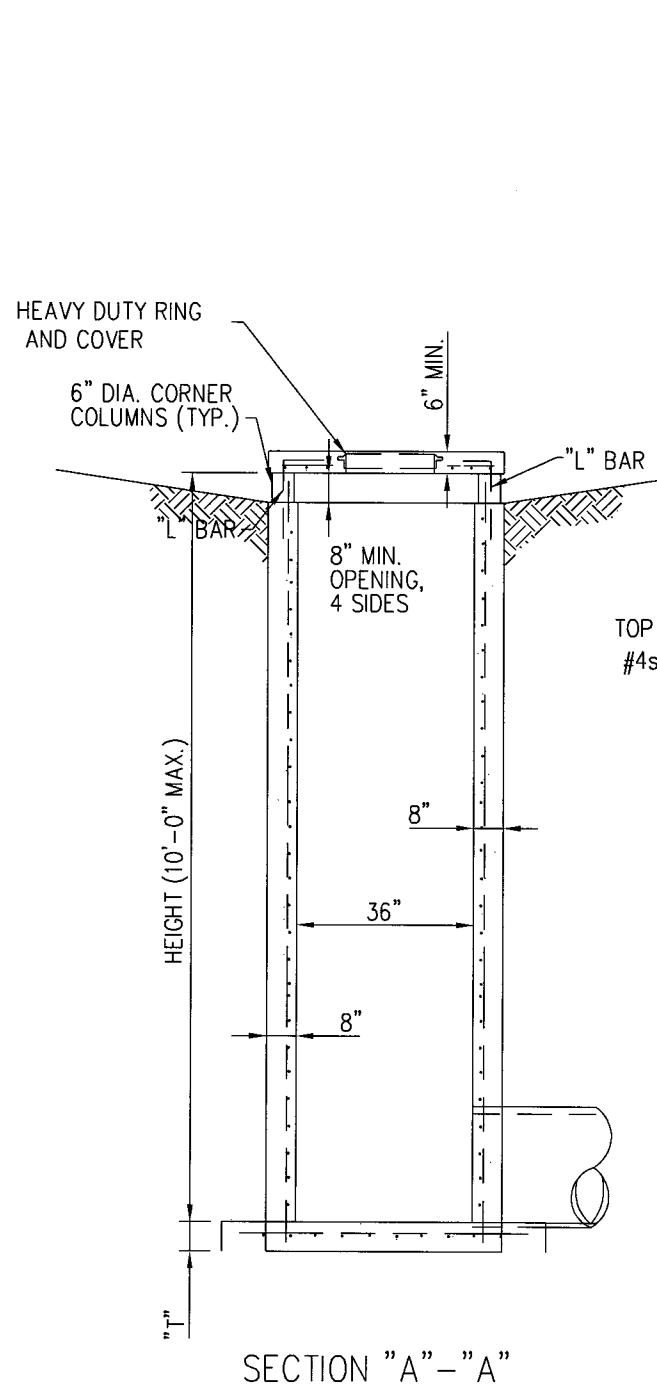
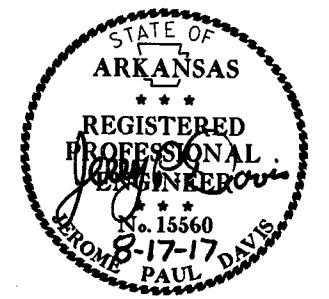
TYPICAL SECTION NOTES:

- REFER TO CROSS SECTIONS FOR DEVIATIONS 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.
- PRIOR TO AND DURING PLACEMENT OF PAVEMENT, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.
- ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED ONLY IF AND WHERE DIRECTED BY THE ENGINEER. CALCULATIONS FOR THE AMOUNT OF LEVELING AND/OR LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS.
- THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT LANE LINES.
- 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.
- TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 45' INTERVALS.

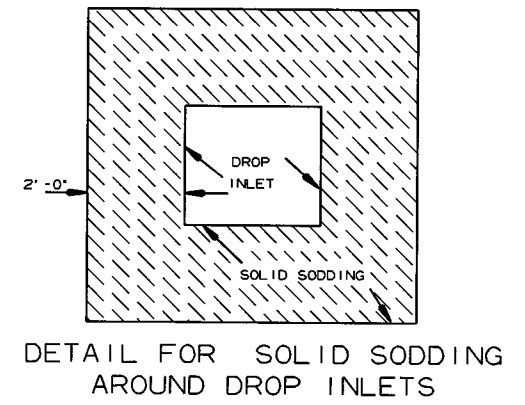
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				6	ARK.				
							JOB NO. 090471	4	41

2 SPECIAL DETAILS



- NOTES:
1. DROP INLET SHALL CONFORM TO APPLICABLE GENERAL NOTES FROM STANDARD DRAWING FPC-9D.
 2. SEE STANDARD DRAWING FPC-9M FOR DETAILS OF HEAVY DUTY RING AND COVER.
 3. SEE STD. DRAWING FPC-9D FOR REINFORCING DETAILS OF WALLS AND BOTTOM.
 4. PAYMENT FOR DROP INLET SHALL BE MADE UNDER "DROP INLET (TYPE RM SPECIAL)".

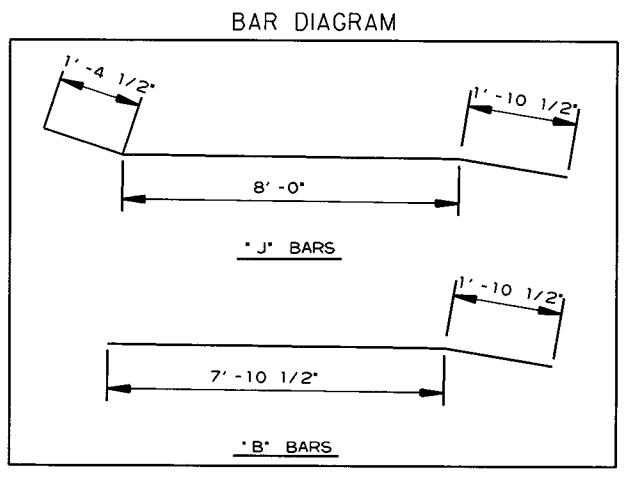
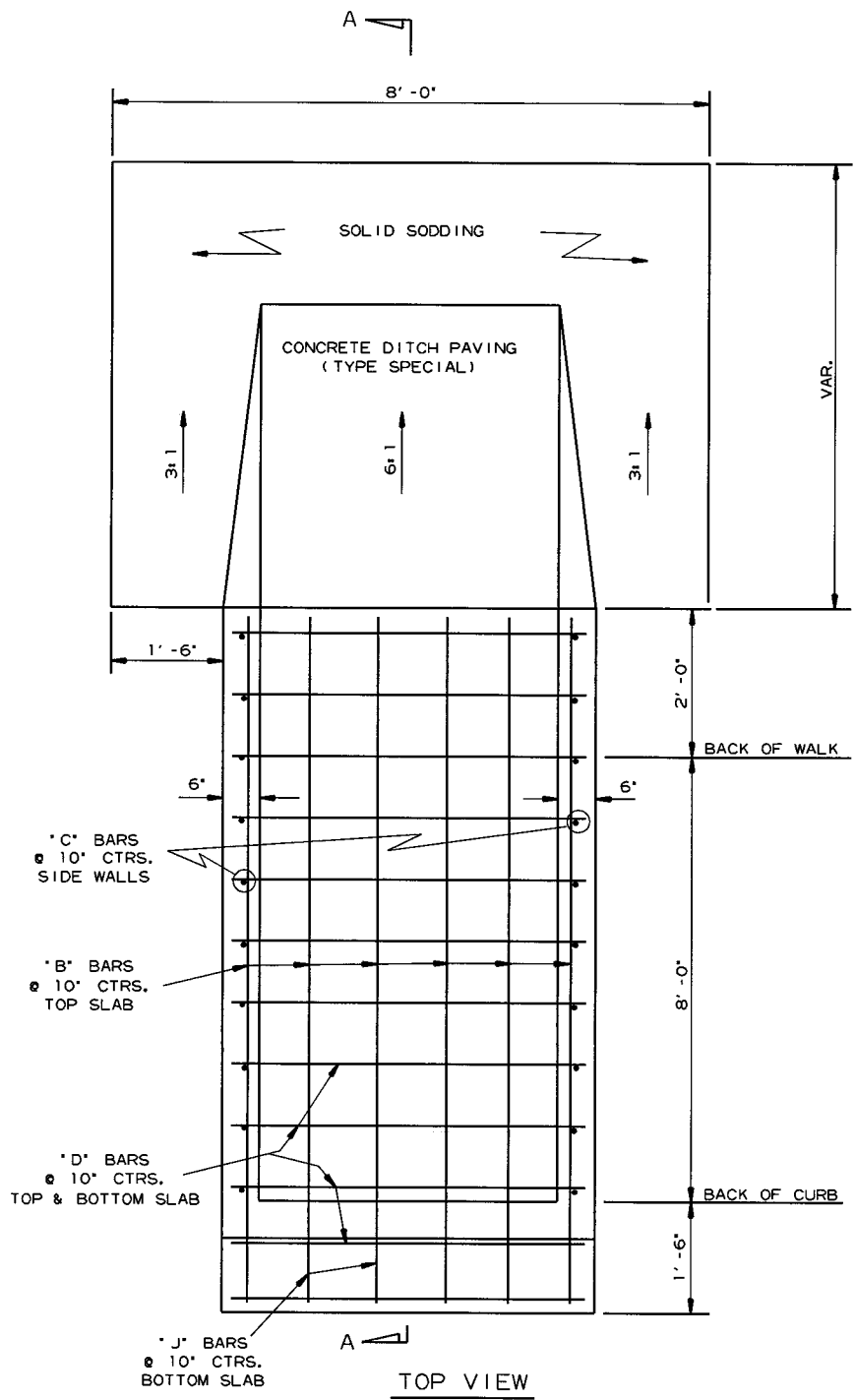


SEE STANDARD DRAWING FPC-9D FOR "T" AND "W"

DROP INLET TYPE RM SPECIAL
NTS

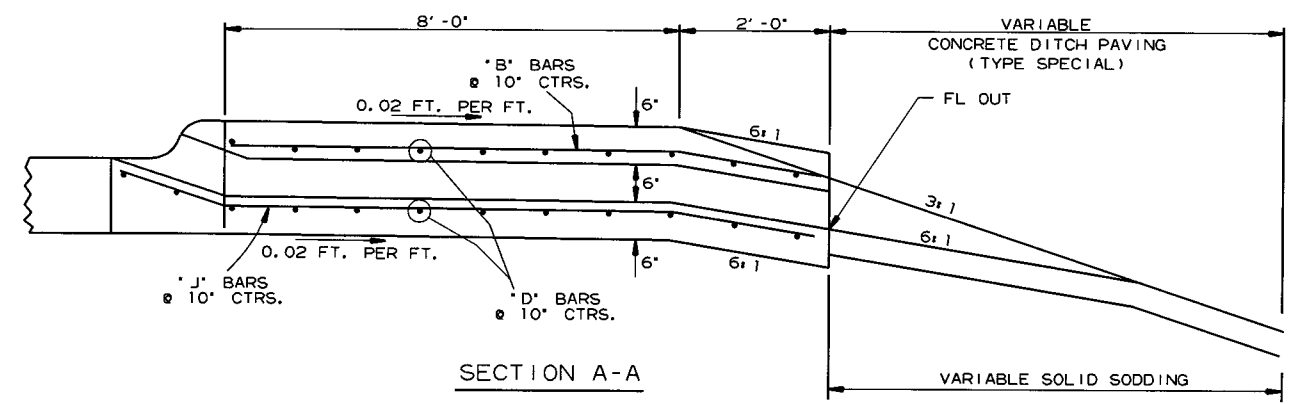
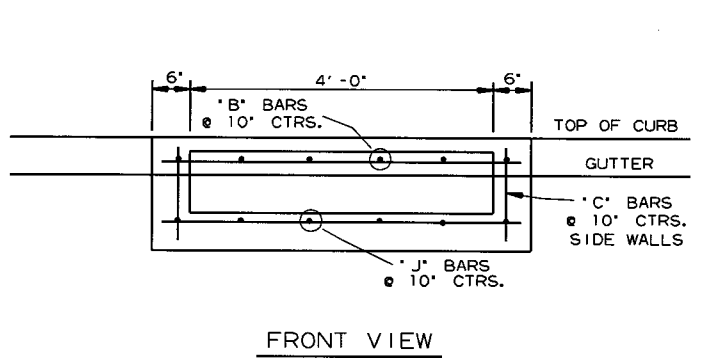
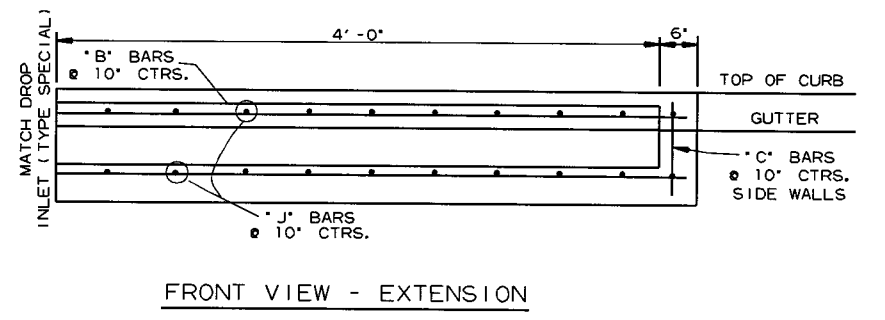
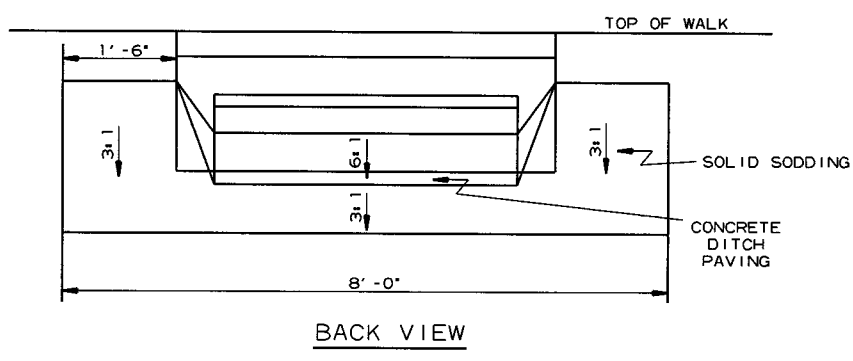
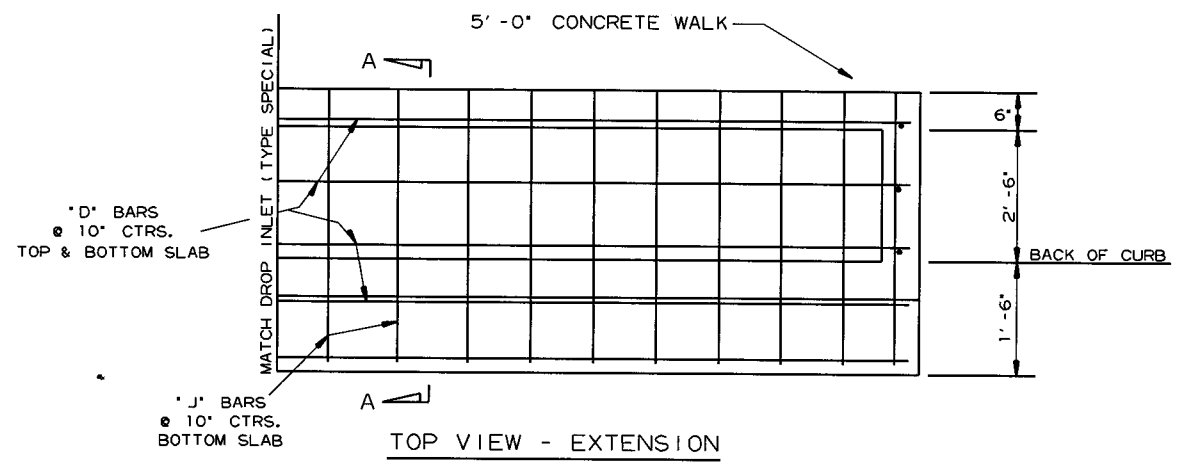
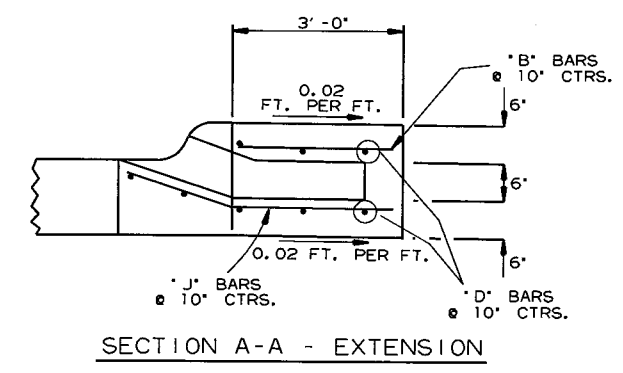
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				6	ARK.			
				JOB NO.	090471	5	41	

2 SPECIAL DETAILS



CLASS	RE INF.
A	CONC.
	STEEL - RDWY.
	(GRADE 60)
CU. YDS.	POUND
2.53	207

QUANTITIES FOR INFORMATION ONLY
DROP INLET (TYPE SPECIAL)



DROP INLET (TYPE SPECIAL)

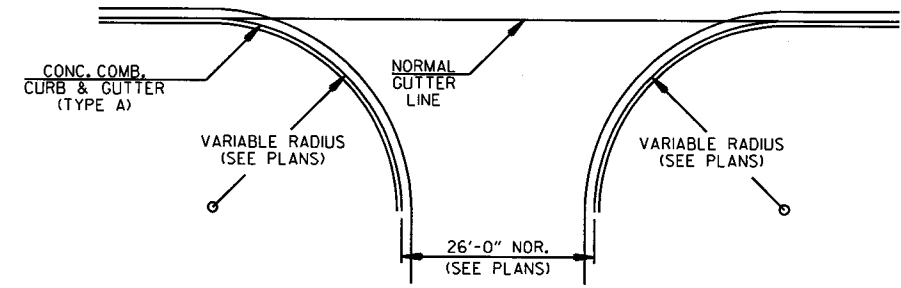
- GENERAL NOTES:
- ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
 - ALL REINF. BARS SHALL BE #4 AND HAVE 1 1/2" COVER.
 - DROP INLETS AND EXTENSIONS ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
 - DURING CONSTRUCTION OF THE ROADWAY, THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
 - PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
 - CONCRETE DITCH PAVING & SOLID SODDING SHALL BE PAID FOR SEPARATELY.
 - CONSTRUCT EXTENSIONS UPSTREAM OF DROP INLET UNLESS OTHERWISE SPECIFIED.

SPECIAL DETAILS

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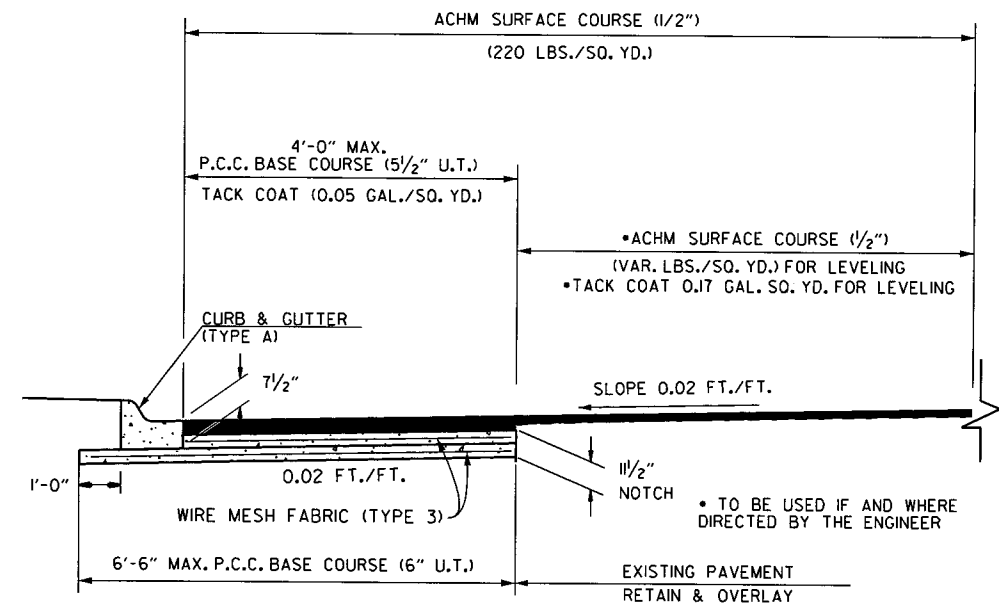
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2 SPECIAL DETAILS

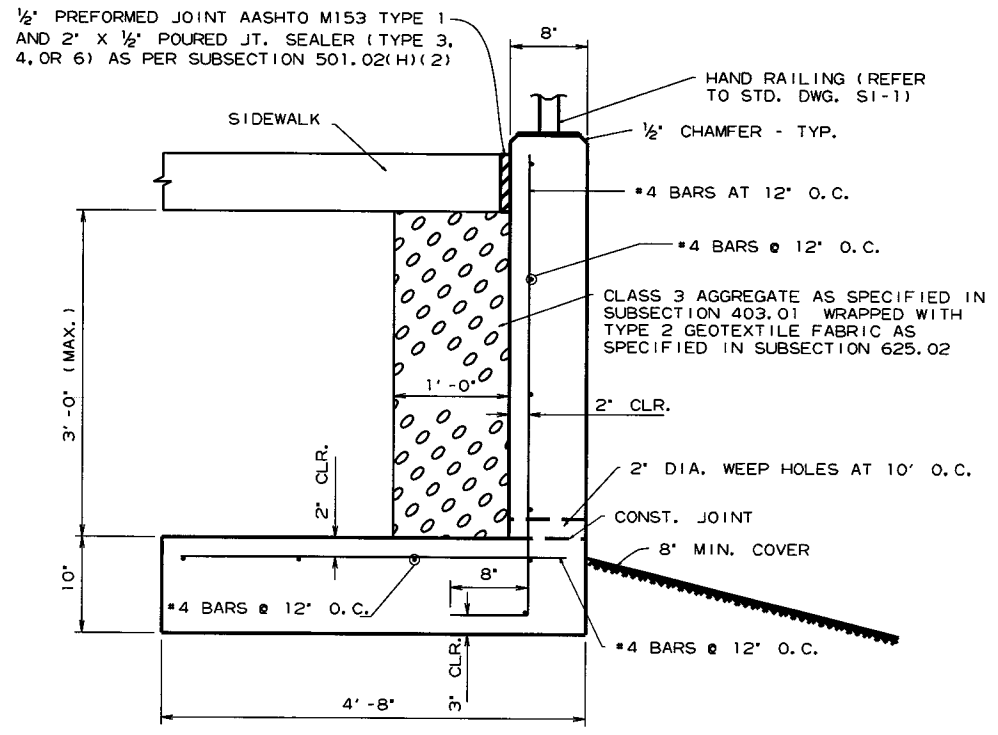


NOTE:
PAVEMENT STRUCTURE FOR STATE HIGHWAYS, CITY STREETS,
& COUNTY ROADS TO BE SAME AS MAIN LANES.

DETAIL OF TURNOUTS, ASPHALT STREETS,
COUNTY ROADS & STATE HIGHWAYS
CURB & GUTTER SECTION

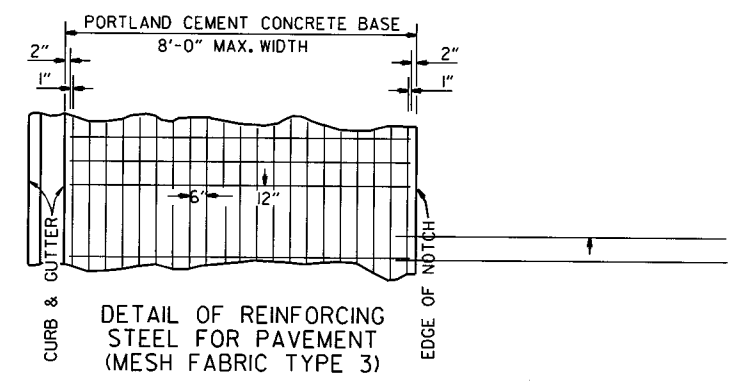


P.C.C. BASE WIDENING DETAIL
P.C.C. BASE WIDENING TO BE USED AS SHOWN ON THE PLANS
& IF OR WHERE DIRECTED BY THE ENGINEER.

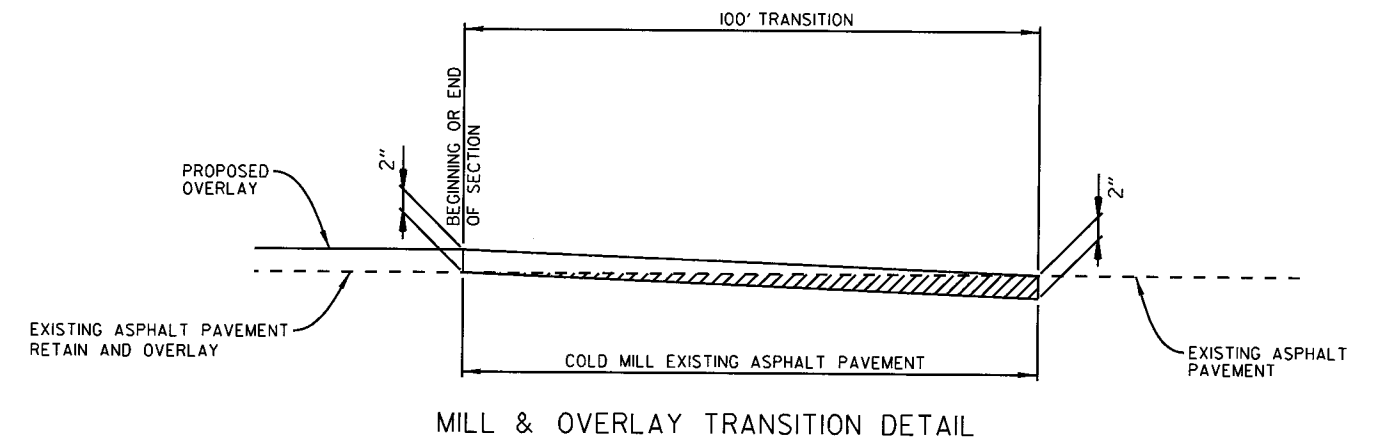


NOTES:
JOINTS IN THE WALL SHALL MATCH THE TYPE AND SPACING OF THE JOINTS IN THE WALK.
ALL CONCRETE SHALL BE CLASS S (F'C=3,500 PSI) AND SHALL BE POURED IN THE DRY.
REINFORCING STEEL SHALL BE AASHTO M31 OR M53, GRADE 60 (FY=60,000 PSI).
PAYMENT FOR THE WEEP HOLES, CLASS 3 AGGREGATE, TYPE 2 GEOTEXTILE FABRIC,
PREFORMED JOINT FILLER, POURED JOINT SEALER, REINF. STEEL, AND CONCRETE SHALL BE
INCLUDED IN THE UNIT BID PRICE PER SQ. YD. FOR CONCRETE WALKS (TYPE SPECIAL).

CONCRETE RETAINING WALL SPECIAL DETAIL
MAX HEIGHT 3' - 0"



NOTES:
6" X 12" MESH FABRIC (TYPE 3) (W5.5 x W2.9) = 4.26 LBS./SQ. YD.
1. LAP MESH FABRIC MIN. 12" LONGITUDINALLY AND MIN. 6" TRANSVERSELY.
2. MESH FABRIC IS NOT REQUIRED WHEN WIDTH OF PORTLAND CEMENT CONCRETE BASE IS LESS THAN 12".
3. MESH FABRIC (TYPE 3) WILL NOT BE PAID FOR DIRECTLY, BUT FULL COMPENSATION THEREFORE WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE BID PER SQ. YD. FOR PORTLAND CEMENT CONCRETE BASE (5/2" U.T.) AND PORTLAND CEMENT CONCRETE BASE (6" U.T.)



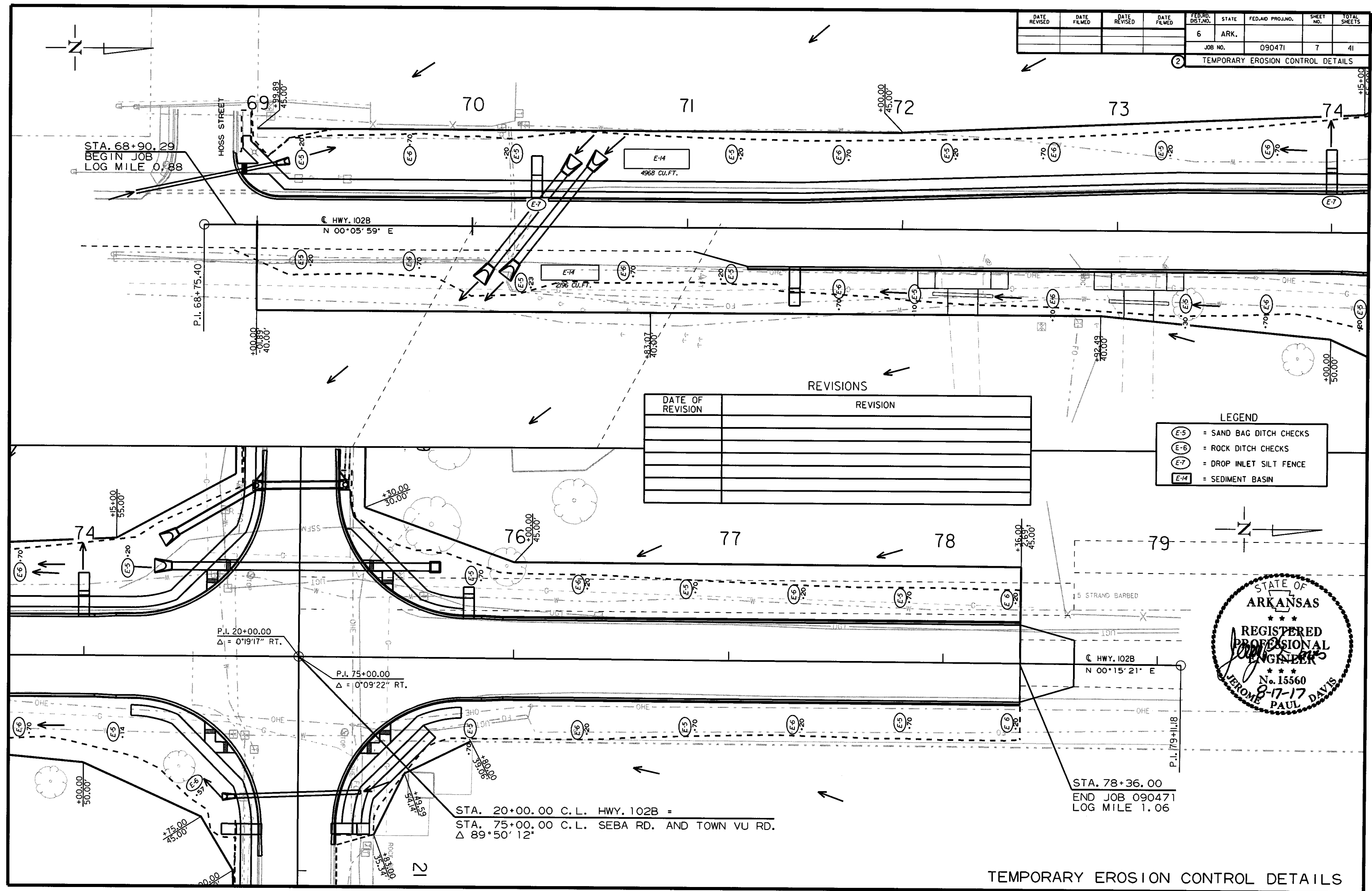
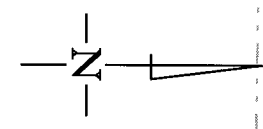
MILL & OVERLAY TRANSITION DETAIL

SPECIAL DETAILS

USER: f553
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				6	ARK.	090471	7	41

2 TEMPORARY EROSION CONTROL DETAILS

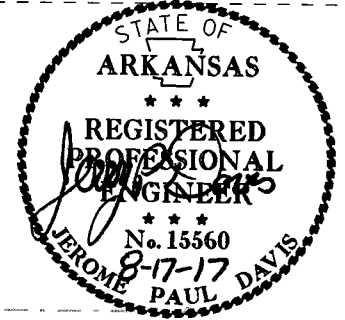


REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- E-14 = SEDIMENT BASIN



USER: f6513
 DESIGN FILE: G:\NIGI601..SEBA\TRANSP\dgn\090471..Seba Rd.dgn
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STA. 20+00.00 C.L. HWY. 102B =
 STA. 75+00.00 C.L. SEBA RD. AND TOWN VU RD.
 $\Delta 89^{\circ}50'12''$

STA. 78+36.00
 END JOB 090471
 LOG MILE 1.06

TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		8	41
JOB NO. 090471							TEMPORARY EROSION CONTROL DETAILS	

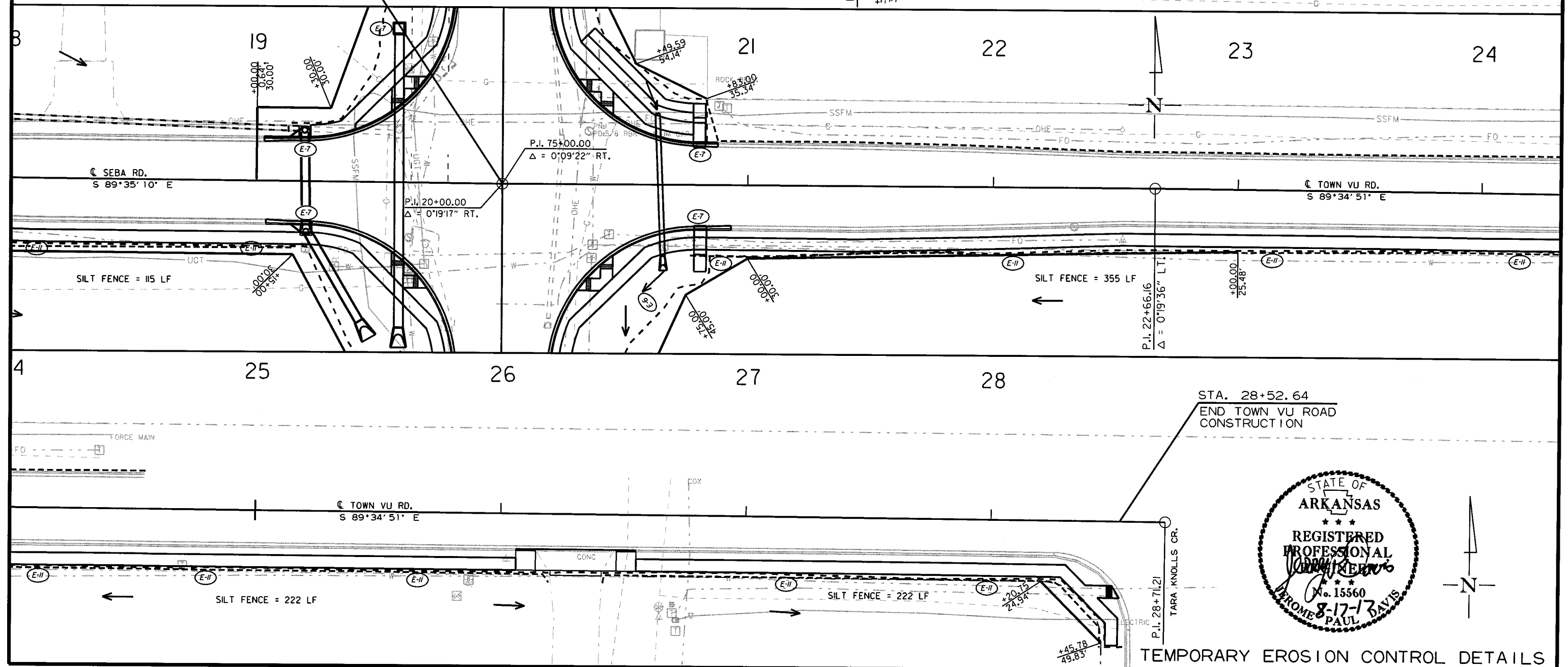
- LEGEND**
- (E-5) = SAND BAG DITCH CHECKS
 - (E-6) = ROCK DITCH CHECKS
 - (E-7) = DROP INLET SILT FENCE
 - (E-11) = SILT FENCE

REVISIONS

DATE OF REVISION	REVISION

STA. 15+72.02
BEGIN SEBA ROAD
CONSTRUCTION

STA. 20+00.00 C.L. HWY. 102B =
STA. 75+00.00 C.L. SEBA AND TOWN VU RD.
Δ 89°50'31"



TEMPORARY EROSION CONTROL DETAILS

USER: f8513
DESIGN FILE: G:\1611601\SEBA\TRANSP\dgn\090471_Sebo Rd.dgn
PLOTTED: 8/17/2017 11:55
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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.	090471		9	41

2 MAINTENANCE OF TRAFFIC DETAILS



STAGE 1 CONSTRUCTION SEQUENCE:

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AS SHOWN ON MAINTENANCE OF TRAFFIC ADVANCE WARNING SHEET.

APPLY CONSTRUCTION PAVEMENT MARKINGS AS SHOWN IN THE STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

CONSTRUCT CROSSROAD DRAINAGE ON HWY. 102B SOUTH OF THE INTERSECTION AND ALONG SOUTH SIDE SEBA ROAD AND TOWN VU ROAD.

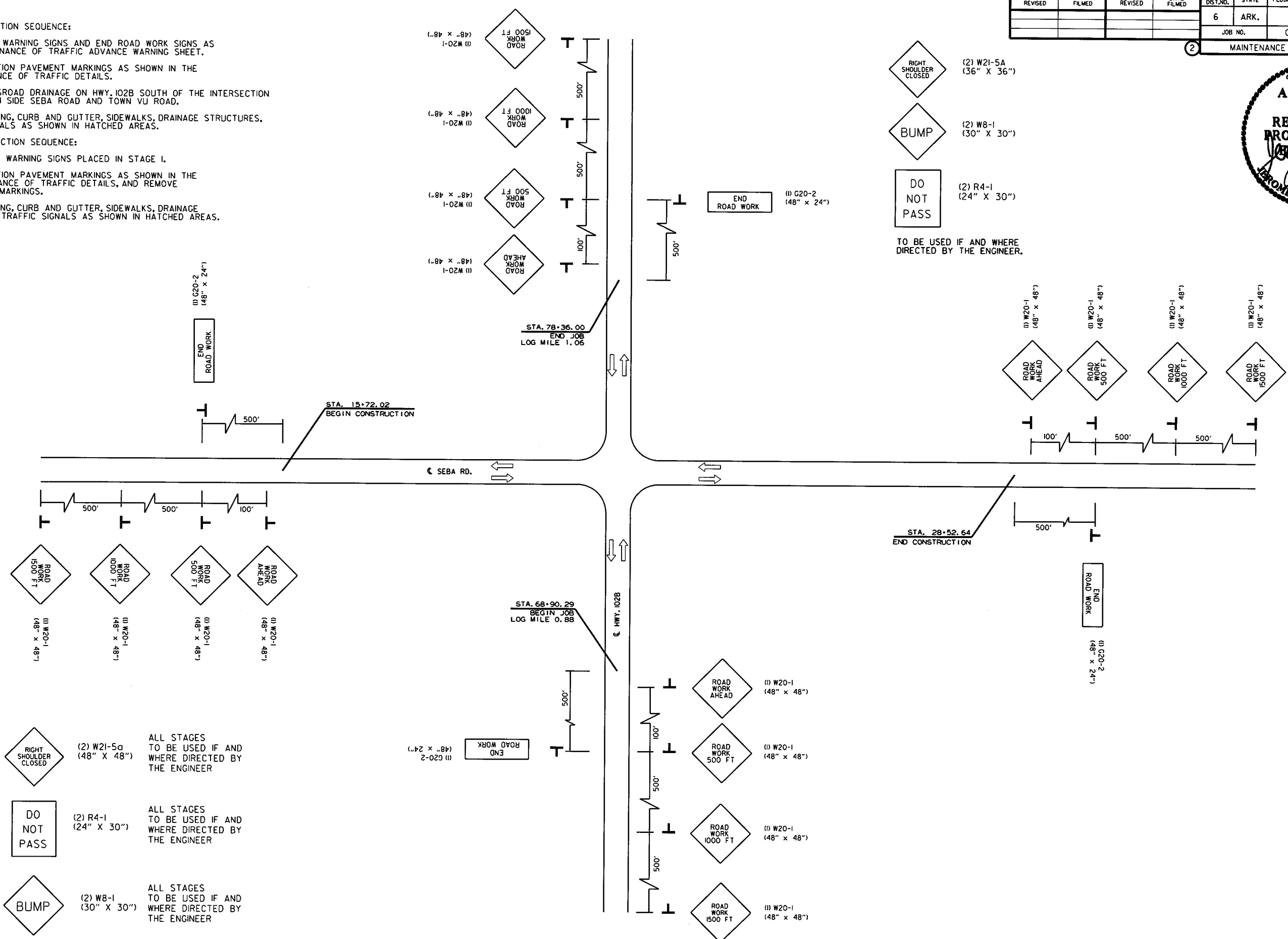
CONSTRUCT WIDENING, CURB AND GUTTER, SIDEWALKS, DRAINAGE STRUCTURES, AND TRAFFIC SIGNALS AS SHOWN IN HATCHED AREAS.


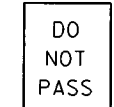

STAGE 2 CONSTRUCTION SEQUENCE:

MAINTAIN ADVANCE WARNING SIGNS PLACED IN STAGE 1.

APPLY CONSTRUCTION PAVEMENT MARKINGS AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS, AND REMOVE ANY CONFLICTING MARKINGS.

CONSTRUCT WIDENING, CURB AND GUTTER, SIDEWALKS, DRAINAGE STRUCTURES, AND TRAFFIC SIGNALS AS SHOWN IN HATCHED AREAS.



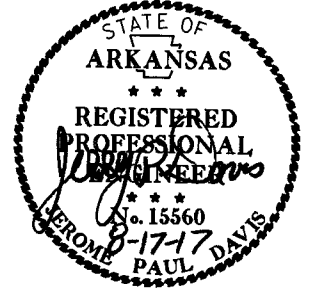
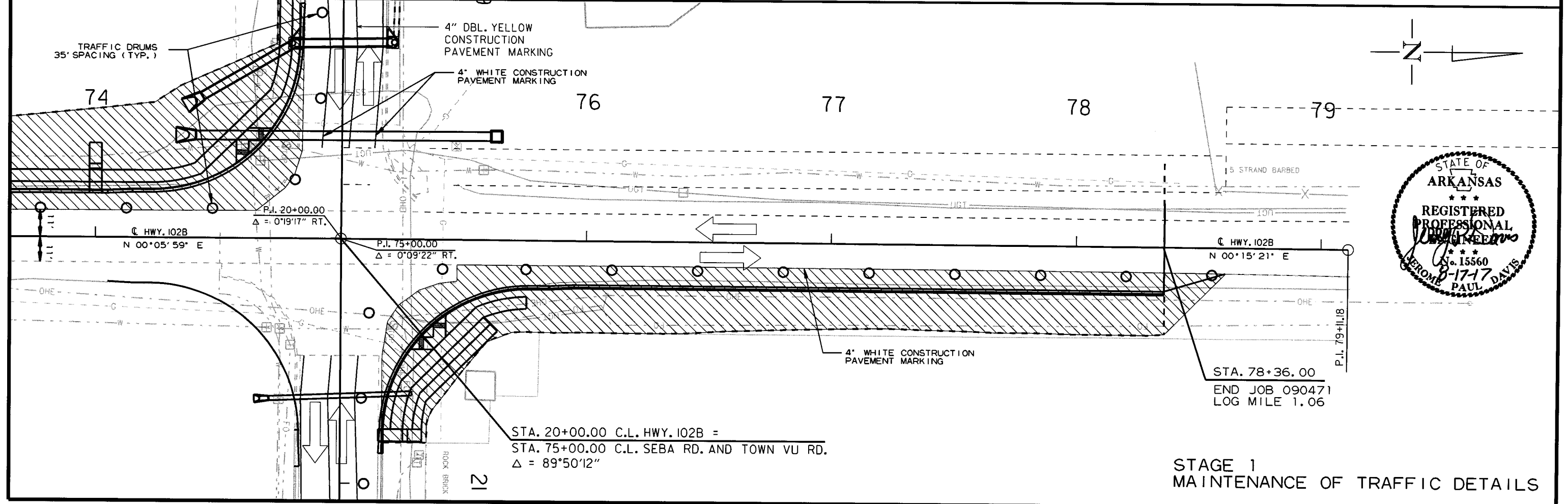
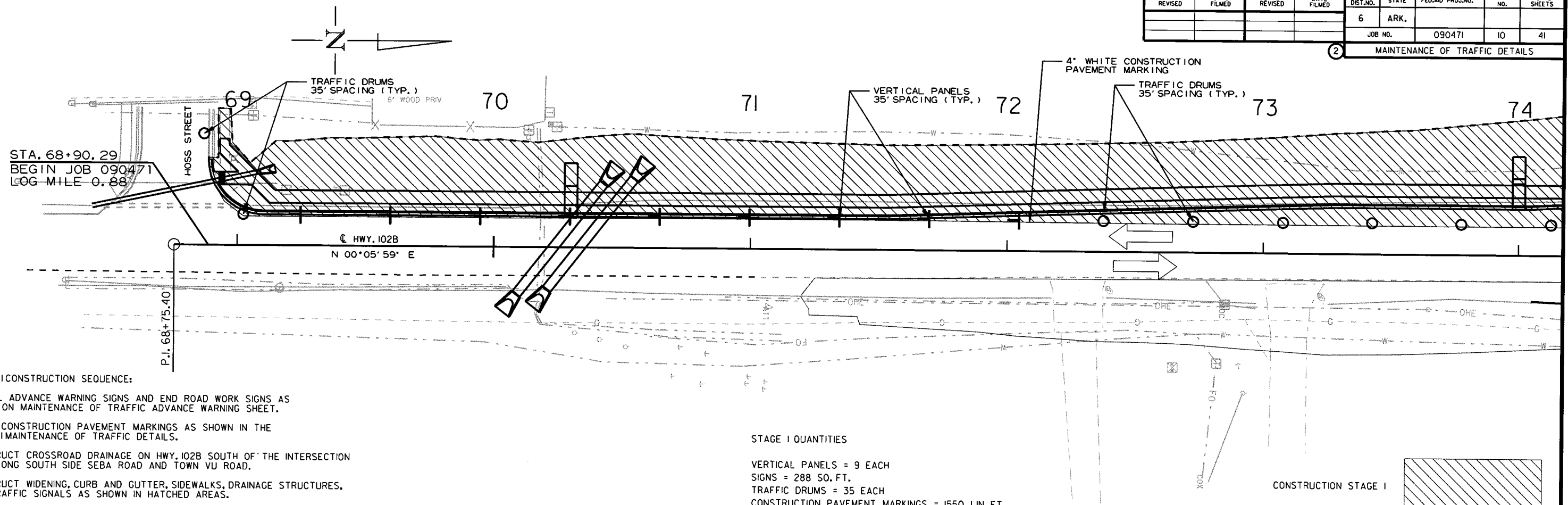
- 
 (2) W21-5A (48" X 48") ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER
- 
 (2) R4-1 (24" X 30") ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER
- 
 (2) W8-1 (30" X 30") ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

ADVANCE WARNING MAINTENANCE OF TRAFFIC DETAILS

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 PLOTTED: 8/17/2017 11:55 SCALE: 200H

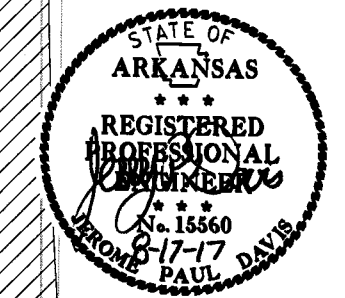
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				6	ARK.			
				JOB NO.	090471	10	41	

2 MAINTENANCE OF TRAFFIC DETAILS

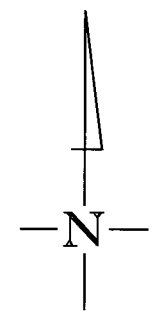


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				6	ARK.			
				JOB NO.	090471	II	41	



MAINTENANCE OF TRAFFIC DETAILS



STA. 15+72.02
BEGIN SEBA ROAD
CONSTRUCTION

16

17

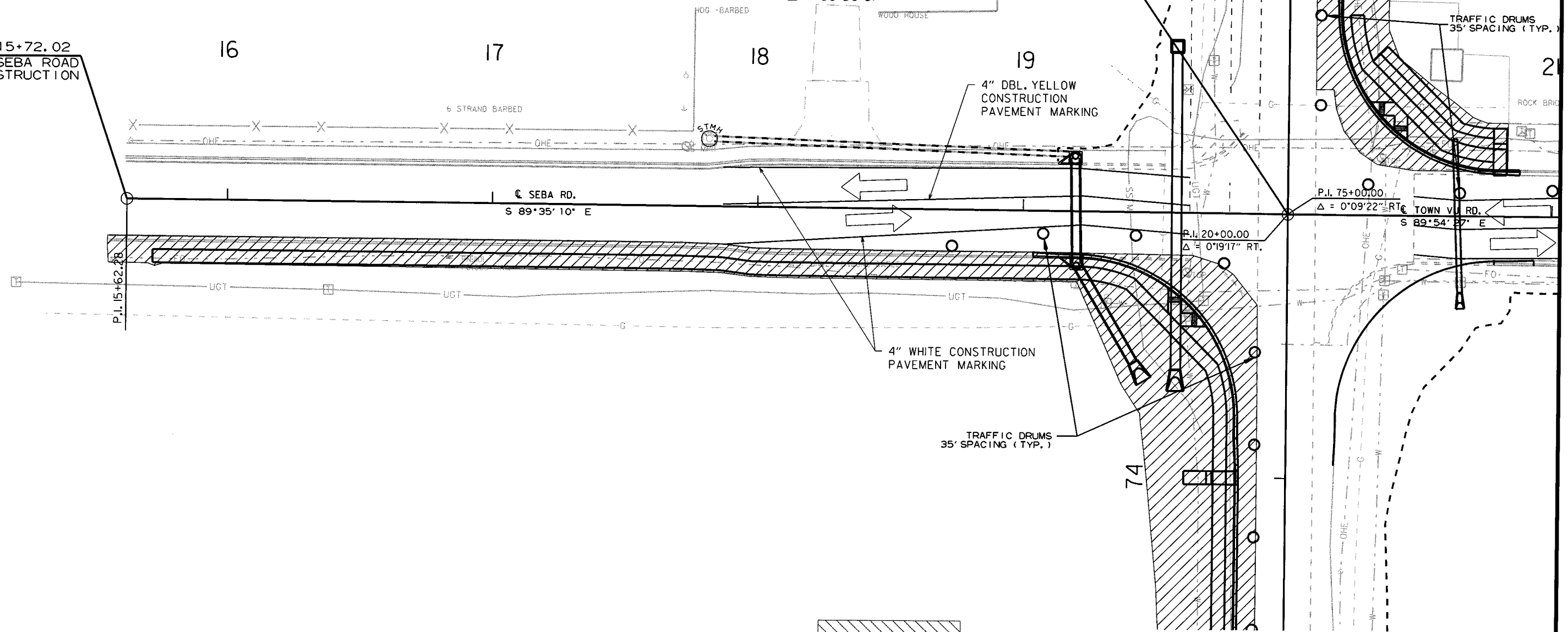
18

19

76

74

STA. 20+00.00 C.L. HWY. 102B =
STA. 75+00.00 C.L. SEBA RD. AND TOWN VU RD.
 $\Delta = 89^{\circ}50'31''$



TRAFFIC DRUMS
35' SPACING (TYP.)

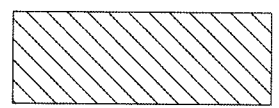
P.I. 75+00.00
 $\Delta = 0^{\circ}09'22''$ RT. TOWN VU RD.
S $89^{\circ}54'37''$ E

P.I. 20+00.00
 $\Delta = 0^{\circ}19'17''$ RT.

4" WHITE CONSTRUCTION
PAVEMENT MARKING

TRAFFIC DRUMS
35' SPACING (TYP.)

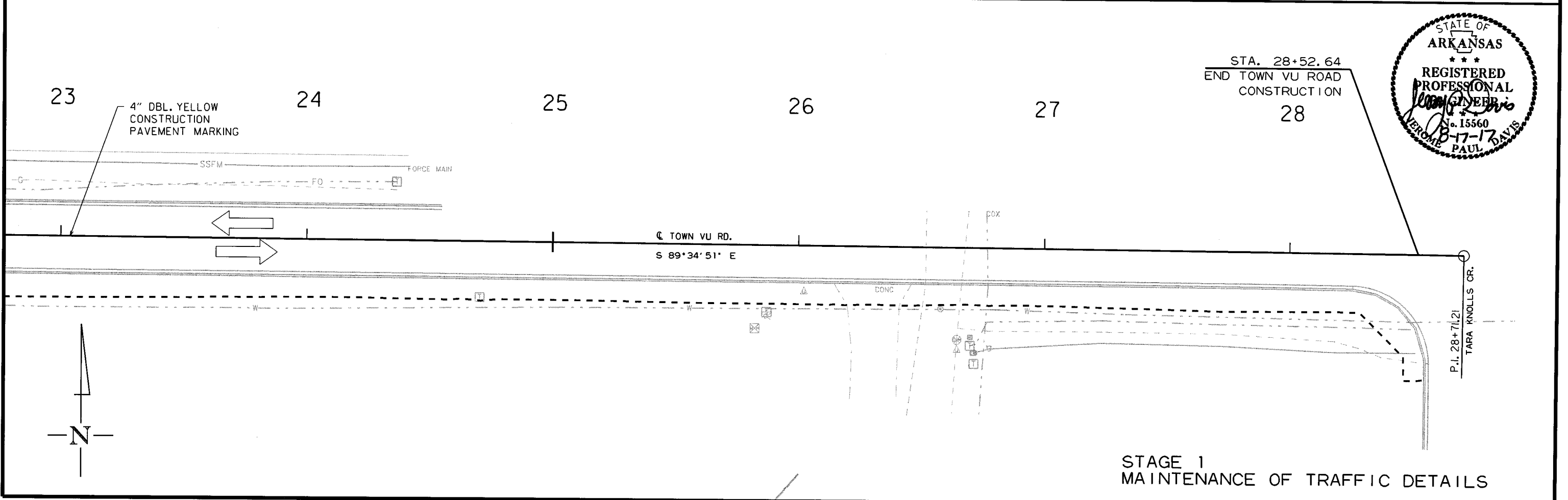
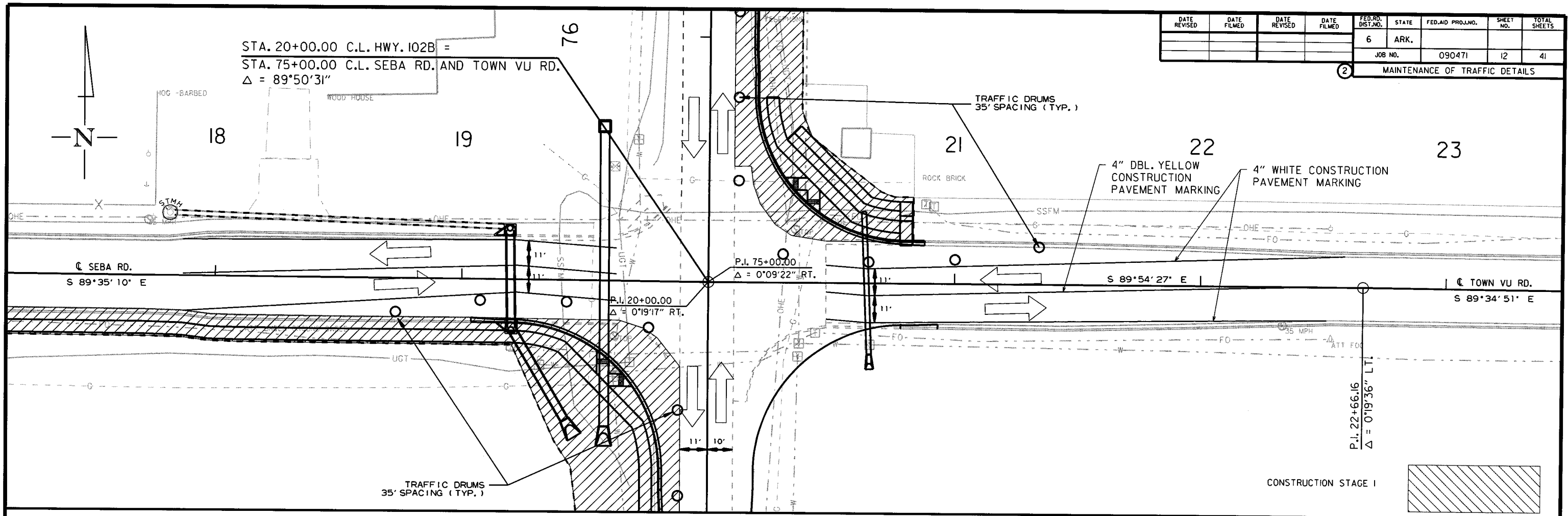
CONSTRUCTION STAGE I



STAGE 1
MAINTENANCE OF TRAFFIC DETAILS

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PLOTTED: 8/17/2017 11:55
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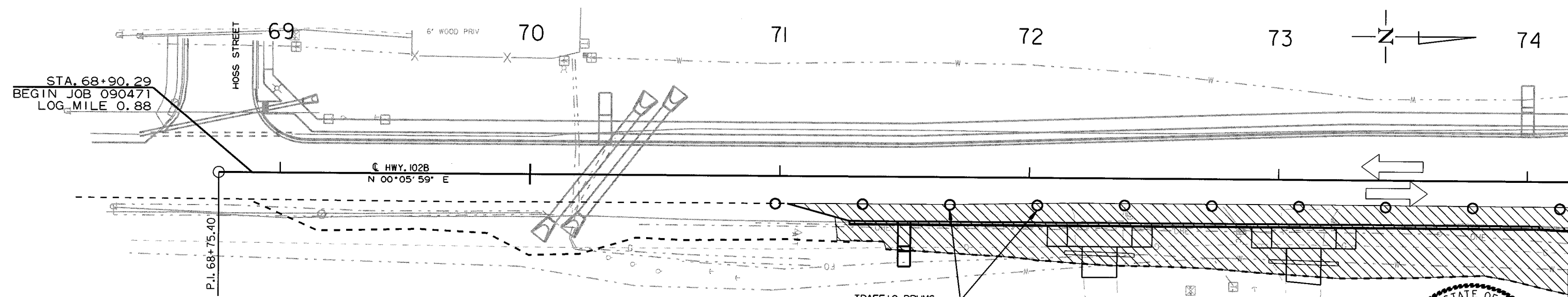
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				6	ARK.			
				JOB NO.	090471		12	41
② MAINTENANCE OF TRAFFIC DETAILS								



USER: f5513
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 PLOTTED: 8/17/2017 11:55 SCALE: 40x

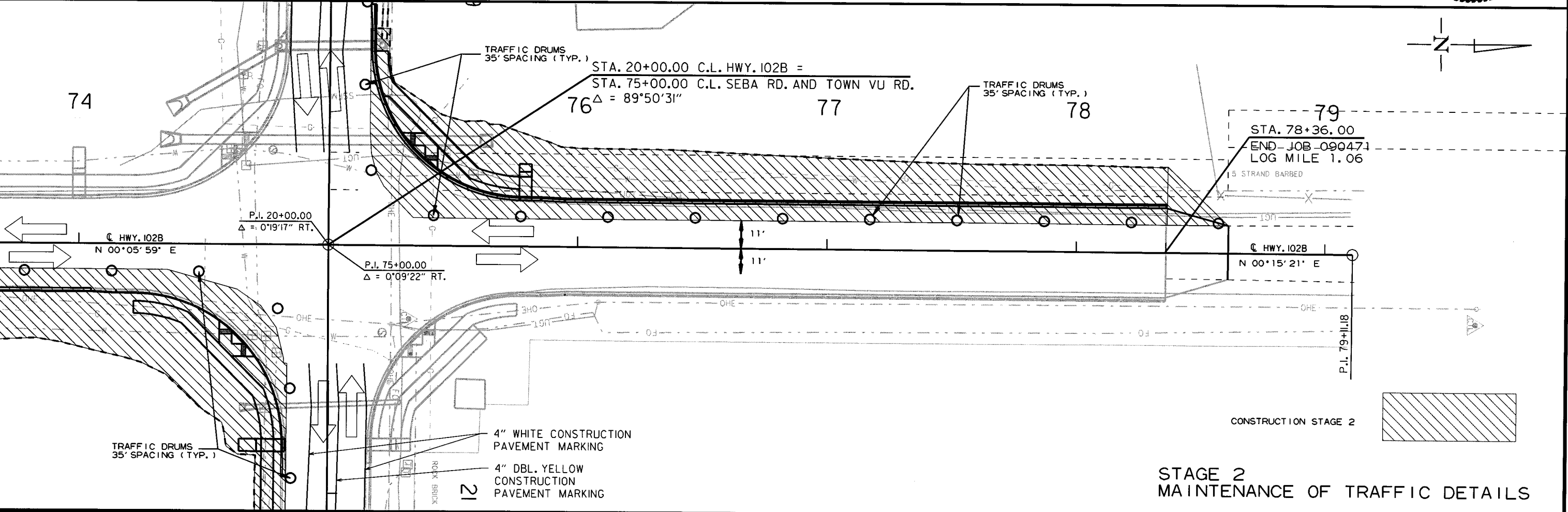
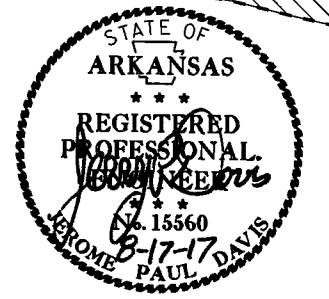
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				6	ARK.			
							JOB NO. 090471	13 41

② MAINTENANCE OF TRAFFIC DETAILS



STAGE 2 CONSTRUCTION SEQUENCE:
 MAINTAIN ADVANCE WARNING SIGNS PLACED IN STAGE 1.
 APPLY CONSTRUCTION PAVEMENT MARKINGS AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS, AND REMOVE ANY CONFLICTING MARKINGS.
 CONSTRUCT WIDENING, CURB AND GUTTER, SIDEWALKS, DRAINAGE STRUCTURES, AND TRAFFIC SIGNALS AS SHOWN IN HATCHED AREAS.

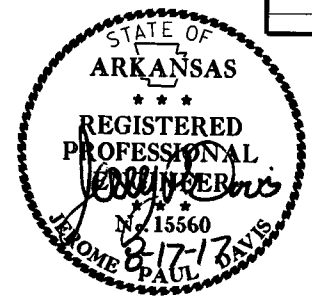
STAGE 2 QUANTITIES
 SIGNS = 288 SQ. FT.
 TRAFFIC DRUMS = 28 EACH
 CONSTRUCTION PAVEMENT MARKINGS = 946 LIN. FT.



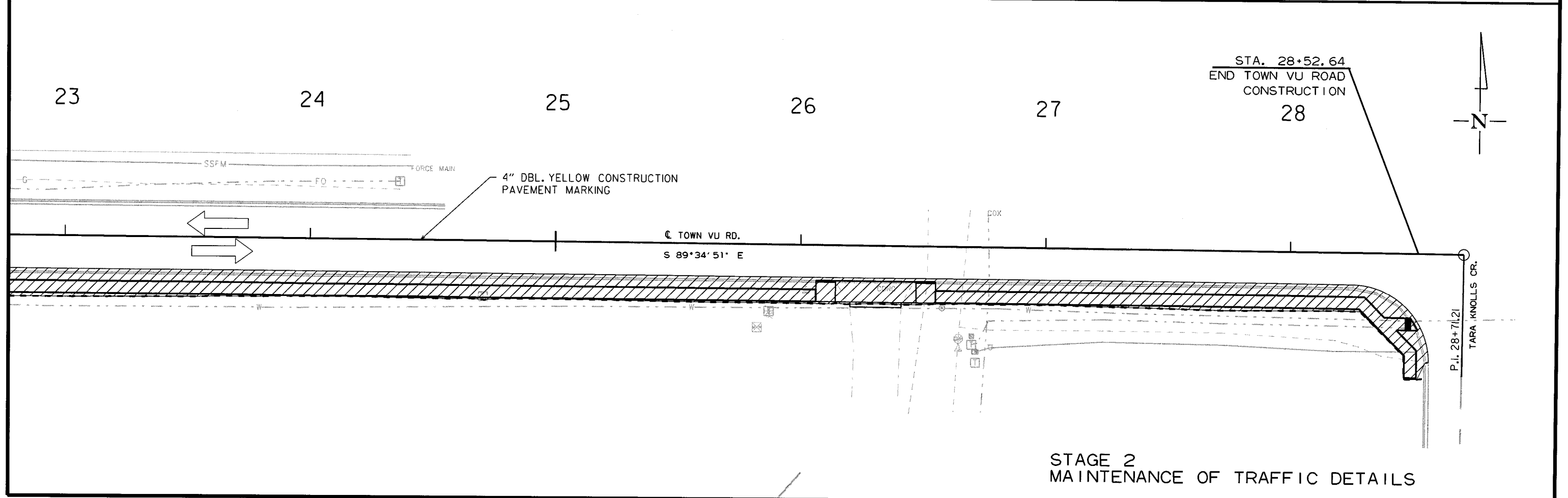
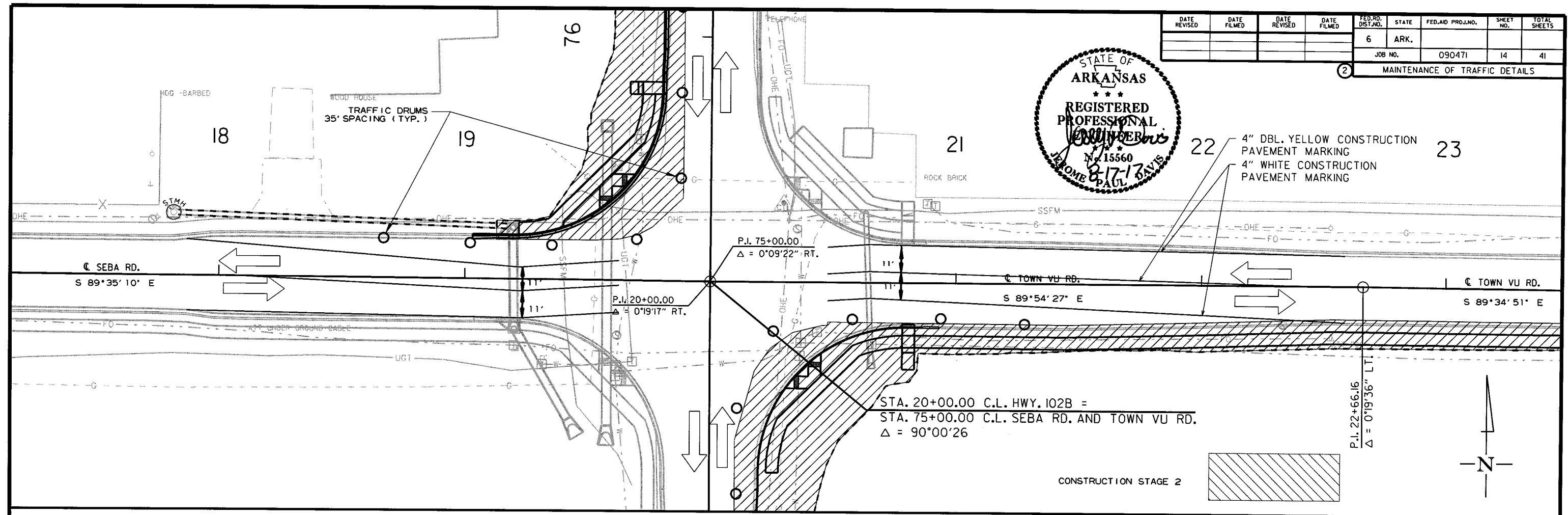
STAGE 2
 MAINTENANCE OF TRAFFIC DETAILS

USER: fs513
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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.	090471	14	41	



2 MAINTENANCE OF TRAFFIC DETAILS



STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

USER: fs513
DESIGN FILE: G:\1611601_SEBA_TRANSP\090471_Seba Rd.dgn
PLOTTED: 8/17/2017 11:55
SCALE: 40x

TERMOPLASTIC PAVEMENT MARKINGS:

6" YELLOW SOLID LINE = 3602 LIN. FT.
 6" WHITE SOLID LINE = 1634 LIN. FT.
 12" WHITE SOLID LINE = 665 LIN. FT.

REFLECTORIZED PAINT PAVEMENT MARKINGS

ARROWS = 6 EACH
 WORDS = 2 EACH

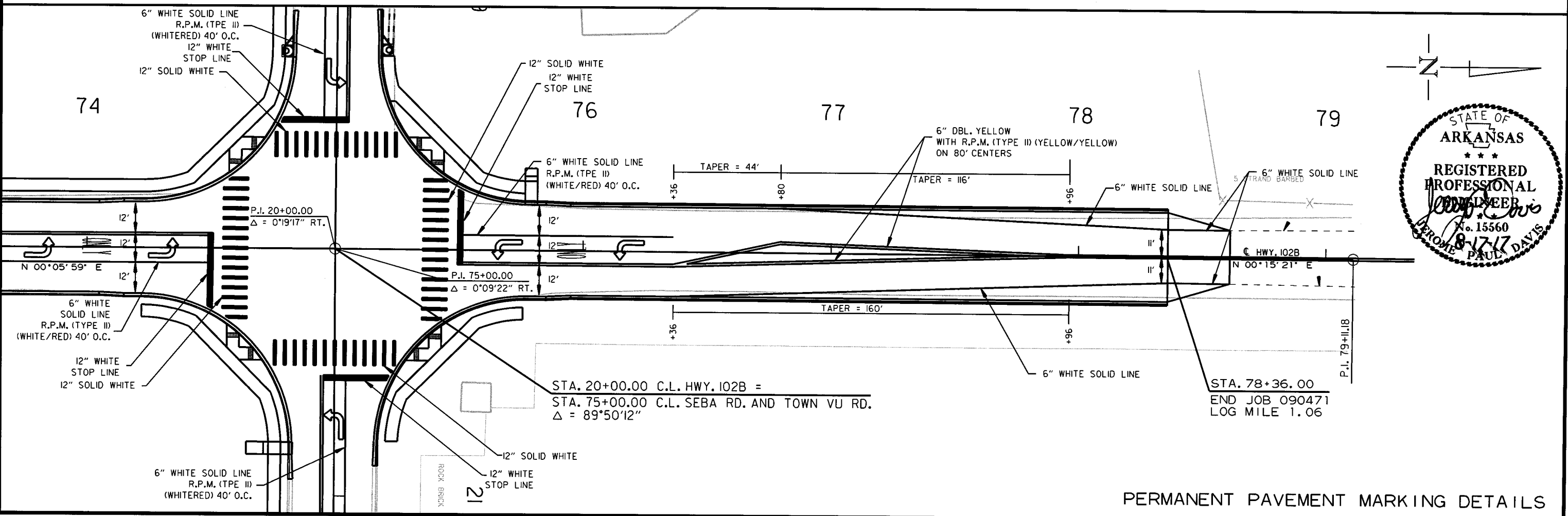
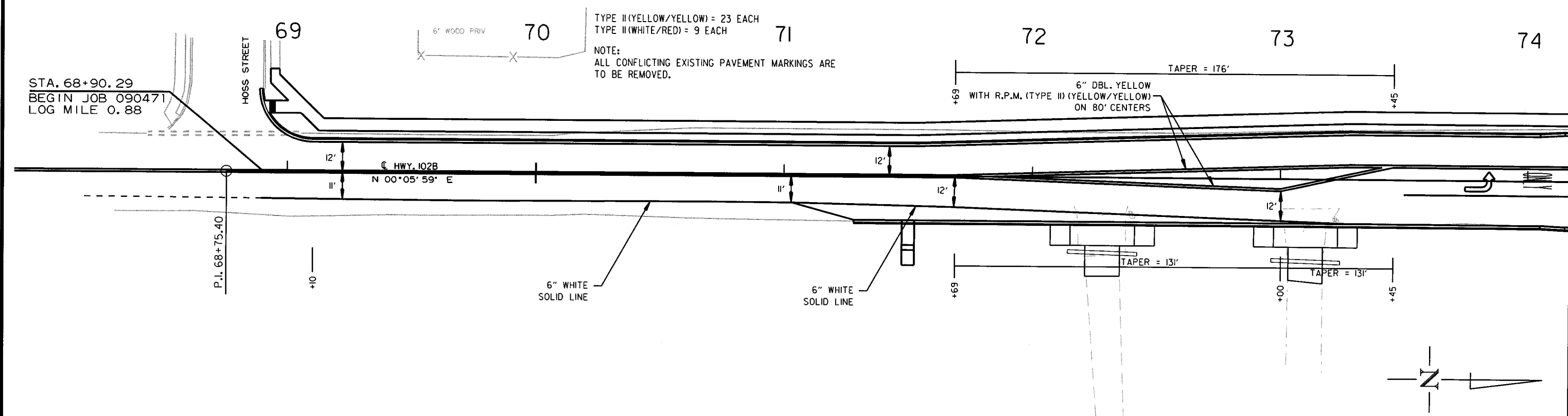
RAISED PAVEMENT MARKERS (80' O.C.)

TYPE II (YELLOW/YELLOW) = 23 EACH
 TYPE II (WHITE/RED) = 9 EACH

NOTE:
 ALL CONFLICTING EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED.

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.	090471	15	41	

PERMANENT PAVEMENT MARKING DETAILS

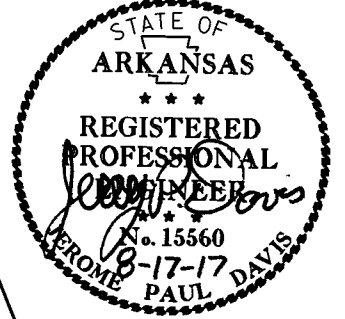
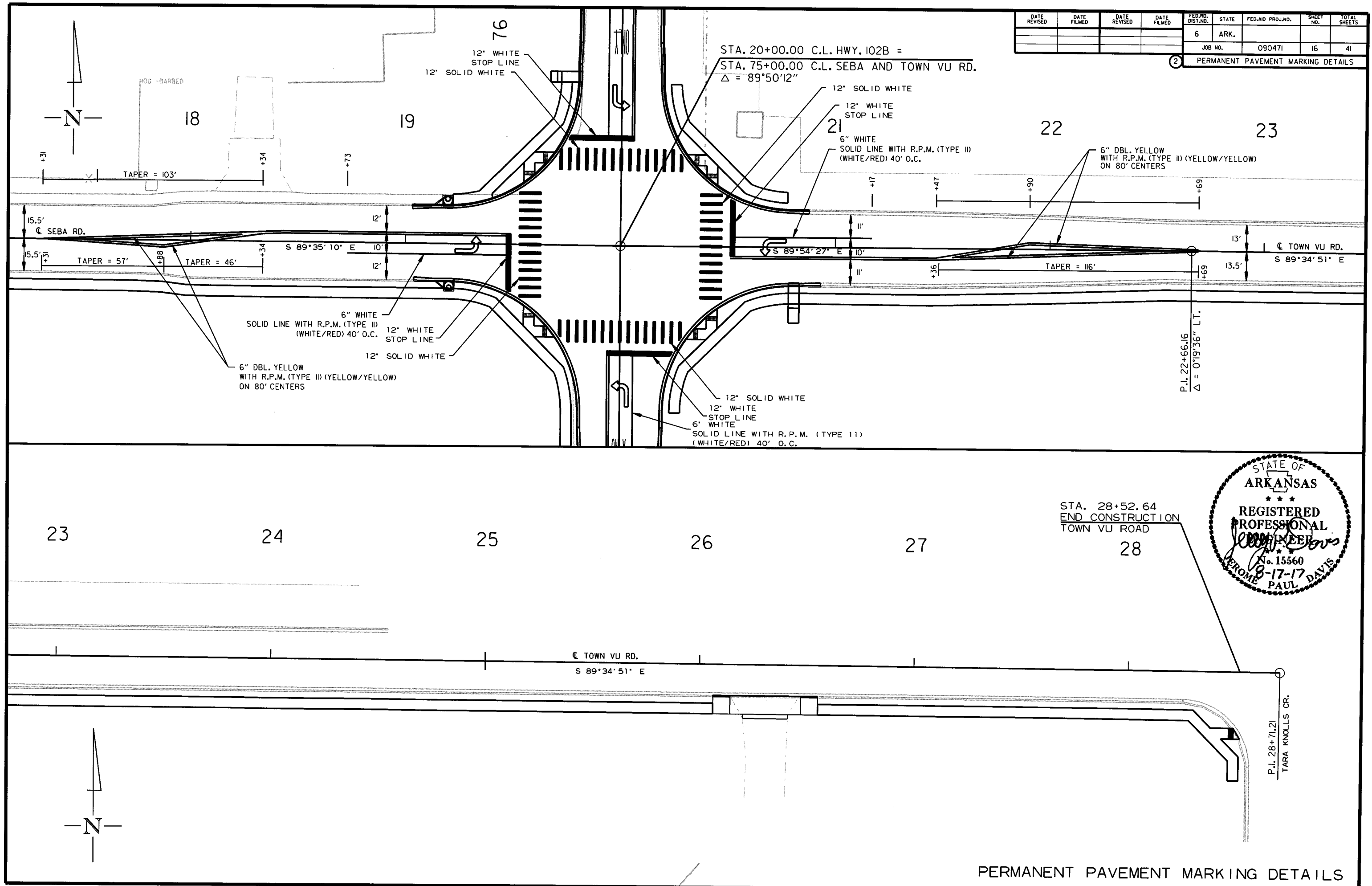


PERMANENT PAVEMENT MARKING DETAILS

USER: f6513
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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.	090471
							SHEET NO.	16
							TOTAL SHEETS	41

PERMANENT PAVEMENT MARKING DETAILS



STA. 28+52.64
END CONSTRUCTION
TOWN VU ROAD

PERMANENT PAVEMENT MARKING DETAILS

USER: f6503
DESIGN FILE: G:\1611601\SEBA\TRANSP\dgn\090471_Seba Rd.dgn
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	090471		17	41

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	STAGE 2	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		VERTICAL PANELS	TRAFFIC DRUMS
			LIN. FT. - EACH			NO.	SQ. FT.		
W20-1	ROAD WORK 1500 FT.	48"x48"	4	4	4	4	64.0		
W20-1	ROAD WORK 1000 FT.	48"x48"	4	4	4	4	64.0		
W20-1	ROAD WORK 500 FT.	48"x48"	4	4	4	4	64.0		
W20-1	ROAD WORK AHEAD	48"x48"	4	4	4	4	64.0		
G20-2	END ROAD WORK	48"x24"	4	4	4	4	32.0		
R4-1	DO NOT PASS	24"x30"	2	2	2	2	10.0		
W8-1	BUMP	30"x30"	2	2	2	2	12.5		
W21-5A	RIGHT SHOULDER CLOSED	36"x36"	2	2	2	2	18.0		
	VERTICAL PANELS		9		9			9	
	TRAFFIC DRUMS		35	28	35				35
TOTALS:							328.5	9	35

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.

2 QUANTITIES



CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	STAGE 1	STAGE 2	END OF JOB	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	REMOVAL OF PERMANENT PAVEMENT MARKINGS	REMOVAL OF PERMANENT PAVEMENT MARKINGS ARROWS	CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS		THERMOPLASTIC PAVEMENT MARKINGS				
								TYPE II (YEL/YEL)	TYPE II (WHITE/RED)	6"		WORDS	ARROWS	
										WHITE	YELLOW			WHITE
LIN. FT. - EACH			LIN. FT.			EACH		LIN. FT.		EACH				
CONSTRUCTION PAVEMENT MARKINGS	1550	946					2496							
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS		1550	946	2496										
REMOVAL OF PERMANENT PAVEMENT MARKINGS	1500				1500									
REMOVAL OF PERMANENT PAVEMENT MARKINGS ARROWS			4			4								
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)			23					23						
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)			9						9					
THERMOPLASTIC PAVEMENT MARKING WHITE (6")			1634							1634				
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")			3602								3602			
THERMOPLASTIC PAVEMENT MARKING WHITE (12")			665									665		
THERMOPLASTIC PAVEMENT MARKING WORDS			2										2	
THERMOPLASTIC PAVEMENT MARKING ARROWS			6										6	
TOTALS:				2496	1500	4	2496	23	9	1634	3602	665	2	6

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	
73+00.00	77+00.00	HWY. 102B	4	4
TOTALS:			4	4

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
68+90.29	74+50.00	HWY. 102B	680	520
75+50.00	78+36.00	HWY. 102B	97	205
ENTIRE PROJECT		DRIVEWAYS	20	
TOTALS:			797	725

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

QUANTITIES FOR
FAP NO. STPU-9082(2)

USER: fs53
DESIGN FILE: G:\N1611601\SEBA\TRANSP\dgn\090471_Seba Rd.dgn
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							090471	18	41

QUANTITIES



REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB AND GUTTER	CONCRETE DRIVEWAYS	WALKS
			LIN. FT.	SQ. YD.	SQ. YD.
72+18.00	72+38.00	HWY. 102B - DRIVEWAY ON RT.		43	
68+90.00	68+98.00	HWY. 102B - CURB ON LT.	19		
68+93.00	69+00.00	HWY. 102B - SIDEWALK ON RT.			10
TOTALS:			19	43	10

MAILBOXES

LOCATION	MAILBOXES	MAILBOX SUPPORTS (SINGLE)
	EACH	EACH
HWY. 102B 72+41 RT.	1	1
HWY. 102B 73+24 RT.	1	1
TOTALS:		
	2	2

HAND RAILING

STATION	STATION	LOCATION	LIN. FT.
75+44.00	74+76.00	HWY. 102B RT.	67
TOTAL:			67

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS

STATION	DESCRIPTION	PIPE CULVERTS	DROP INLETS
		EACH	EACH
19+38.00	CURB INLET W/8' EXT. AND 24"X36" PIPE LT.	1	1
19+66.00	CURB INLET W/8' EXT. AND 36"X23" X 28' R.C. ARCH PIPE LT. SIDE	1	
19+69.00	CURB INLET W/8' EXT.		1
19+74.00	CURB INLET W/8' EXT. AND 36"X23" X 31' R.C. ARCH PIPE RT. SIDE	1	1
20+23.00	15" FLARED END SECTION ON PIPE CULVERT LT. SIDE		
20+23.00	18" FLARED END SECTION ON PIPE CULVERT RT. SIDE		
68+75.00	18" x 61' SIDE DRAIN LT.	1	
70+25.00	24" x 34' PIPE CULVERT	1	
72+28.00	18" x 21' SIDE DRAIN RT.	1	
73+10.00	18" x 26' SIDE DRAIN RT.	1	
TOTALS:		7	3

NOTE: QUANTITIES SHOWN ABOVE SHALL INCLUDE REMOVAL & DISPOSAL OF ALL HEADWALLS AND FLARED END SECTIONS IF APPLICABLE.

CONCRETE WALKS

STATION	STATION	SIDE	DESCRIPTION	LENGTH	CONCRETE WALKS	CONCRETE WALKS (TYPE SPECIAL)
				LIN. FT.	SQ. YD.	SQ. YD.
68+93.00	74+75.00	LT.	HWY. 102B	602	334.37	
74+22.00	74+75.00	RT.	HWY. 102B	63	35.13	
75+18.00	75+76.00	LT.	HWY. 102B	83	45.84	
75+21.00	75+76.00	RT.	HWY. 102B	80		44.62
TOTALS:					415.34	44.62

WHEELCHAIR RAMPS

STATION	SIDE	DESCRIPTION	TYPE 2	TYPE 3
			SQ. YD.	SQ. YD.
69+00.00	LT.	HWY. 102B		4.3
74+62.00	RT.	HWY. 102B	10.1	
74+62.00	LT.	HWY. 102B	10.3	
75+38.00	LT.	HWY. 102B	10.3	
75+38.00	RT.	HWY. 102B	10.1	
TOTALS:			40.8	4.3

REMOVAL AND DISPOSAL OF MAILBOXES

STATION	LOCATION	EACH
72+41.00	HWY. 102B RT.	1
73+24.00	HWY. 102B RT.	1
TOTAL:		2

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL						TEMPORARY EROSION CONTROL									
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SOLID SODDING	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	ROCK DITCH CHECKS (E-6)	DROP INLET SILT FENCE (E-7)	SILT FENCE (E-11)	SEDIMENT BASIN (E-14)	OBLITERATION OF SEDIMENT BASIN	** SEDIMENT REMOVAL AND DISPOSAL
			ACRE	TON	ACRE	M. GAL.	ACRE	SQ. YD.	ACRE	ACRE	M. GAL.	BAG	CU. YD.	LIN. FT.	LIN. FT.	CU. YD.	CU. YD.	CU. YD.
68+90.00	74+60.00	HWY. 102B - STAGE 1	0.45	0.90	0.45	47.7	0.45	144.63	0.10	0.10	3.9	264	24	75		81	81	138
75+50.00	78+35.00	HWY. 102B - STAGE 2	0.24	0.48	0.24	25.3	0.24	61.59	0.50	0.50	11.0	132	27	25		184	184	235
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER				0.50		51.0	0.40				110		15	65				50
TOTALS:			0.69	1.88	0.69	124.0	1.09	206.22	0.60	1.10	25.1	506	66	165	250	265	265	423

BASIS OF ESTIMATE:
 LIME.....2 TONS / ACRE OF SEEDING
 WATER.....102.0 M.G./ACRE OF SEEDING
 WATER.....20.4 M.G./ACRE OF TEMPORARY SEEDING
 WATER.....12.6 GAL./SQ. YD. OF SOLID SODDING
 SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
 DROP INLET SILT FENCE.....25 LIN.FT./LOCATION
 ROCK DITCH CHECKS.....3 CU. YDS. PER DITCH

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

** QUANTITIES ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

QUANTITIES FOR
FAP NO. STPU-9082(2)

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.	090471	19	41	

QUANTITIES



STRUCTURES

STATION	DESCRIPTION	REINFORCED CONCRETE PIPE CULVERT	REINFORCED CONCRETE ARCH PIPE CULVERT	SIDE DRAIN	FLARED END SECTIONS FOR R.C. PIPE CULVERTS	FLARED END SECTIONS FOR R.C. ARCH PIPE CULVERTS	DROP INLETS	DROP INLET EXTENSIONS	SOLID SODDING	WATER	STD. DWG. NOS.
		CLASS III	CLASS III				TYPE				
		18"	36" X 23"		18"	18"	36" X 23"	SPECIAL			
		LIN. FT.			EACH				SQ. YD.	M.GAL.	
68+75.00	HWY. 102B	68			1				5	0.06	PCM-1, PCC-1, FES-1, FES-2
70+30.00	HWY. 102B LT.						1	1	1	0.01	SPECIAL DETAILS
70+34.00	HWY. 102B		110			4			28	1.41	PCC-1, FES-1, FES-2
71+50.00	HWY. 102B RT.						1		1	0.01	PCC-1, PCM-1
72+28.00	HWY. 102B RT.			28							PCM-1, PCC-1
73+10.00	HWY. 102B RT.			28							PCM-1, PCC-1
74+00.00	HWY. 102B LT.						1	1	1	0.01	SPECIAL DETAILS
75+75.00	HWY. 102B LT.						1	1	1	0.01	SPECIAL DETAILS
TOTALS:		68	110	56	1	4	4	3	38	1.52	SPECIAL DETAILS

BASIS OF ESTIMATE:
 WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.
 NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.
 NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	LOCATION	WIDTH	LENGTH	TON
		FEET		
68+75.00	HWY. 102B LT.	7.92	36	16
70+34.00	HWY. 102B	18.00	29	29
TOTAL:				45

AVG. DEPTH = 9"

DRIVEWAYS & TURNOUTS

STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)	AGGREGATE BASE COURSE (CLASS 7)
			FEET	STATION	STATION	SQ. YD.	SQ. YD.	TON
72+28.00	RT.	HWY. 102B	14	72+07	72+49	56.47		
73+10.00	RT.	HWY. 102B	14	72+89	73+31	40.14	17.90	1.97
*ENTIRE PROJECT TEMPORARY DRIVES								25.00
TOTALS:						96.61	17.90	1.97

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.6% MIN. AGGR.....5.4% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

* QUANTITY ESTIMATED
 SEE SECTION 104.03 OF THE STD. SPECS. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.
 ** FOR INFORMATION ONLY

THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

CONCRETE COMBINATION CURB AND GUTTER (TYPE A)

STATION	STATION	SIDE	DESCRIPTION	CONC. COMB. CURB AND GUTTER (TYPE A) (1'6") LIN.FT.
68+90.00	74+05.00	LT.	HWY. 102B	529
71+28.00	74+05.00	RT.	HWY. 102B	277
74+05.00	74+84.00	LT.	HWY. 102B	131
74+05.00	74+84.00	RT.	HWY. 102B	127
75+16.00	75+95.00	LT.	HWY. 102B	130
75+16.00	75+95.00	RT.	HWY. 102B	122
75+95.00	78+36.00	LT.	HWY. 102B	241
75+95.00	78+36.00	RT.	HWY. 102B	241
TOTALS:				1798

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC

LOCATION	TON	TACK COAT
		GALLON
ENTIRE PROJECT - TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	10	20
TOTALS:	10	20

NOTE: QUANTITIES ARE ESTIMATED.
 SEE SECTION 104.03 OF THE STD. SPECS.

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING
	CU.YD.
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	100
TOTAL:	100

NOTE: QUANTITY ESTIMATED.
 SEE SECTION 104.03 OF THE STD. SPECS.

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT	TACK COAT
			FT.	SQ.YD.	(0.17 GAL/ SQ. YD.) GAL.
68+90.00	69+90.00	HWY. 102B	29	319	54
78+36.00	79+36.00	HWY. 102B	22	247	42
*ENTIRE PROJECT	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			125	21
TOTALS:				691	117

NOTE: QUANTITIES ARE ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

CONCRETE DITCH PAVING

STATION	LOCATION	LENGTH	WIDTH	CONC. DITCH PAVING (TYPE SPECIAL)	SOLID SODDING	WATER
			"W"	SQ.YD.		M.GAL.
70+30.00	HWY. 102B LT.	10	5.0	6	4	0.05
71+50.00	HWY. 102B RT.	5	5.0	3	2	0.03
74+00.00	HWY. 102B LT.	9	5.0	5	4	0.05
75+75.00	HWY. 102B LT.	4	5.0	2	2	0.03
TOTALS:				16	12	0.16

BASIS OF ESTIMATE:
 WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.

QUANTITIES FOR
 FAP NO. STPU-9082(2)

USER: f5513
 DESIGN FILE: G:\161601_SEBA\TRANSP\dgn\090471_Seba Rd.dgn
 PLOTTED: 8/22/2017 14:52

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.	090471	20	41

② QUANTITIES

BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH FEET	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT			ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (1/2")					TOTAL PG 70-22 TON				
				TON / STATION	TON	AVG. WID. FEET	SQ. YD.	GALLONS / SQ. YD.	GALLON	AVG. WID. FEET	SQ. YD.	POUND / SQ. YD.	PG 64-22 TON	AVG. WID. FEET	SQ. YD.	POUND / SQ. YD.	PG 70-22 TON		AVG. WID. FEET	SQ. YD.	POUND / SQ. YD.	PG 70-22 TON
67+89.90	68+89.90	HWY. 102B - TRANSITION	100.00			28.72	319.11	0.05	15.96							28.72	319.11	220	35.10	35.10		
68+89.90	71+03.00	HWY. 102B	213.10			23.56	557.85	0.05	27.89							23.56	557.85	220	61.36	61.36		
71+03.00	72+41.00	HWY. 102B LT.	138.00			12.97	198.87	0.05	9.94							12.97	198.87	220	21.88	21.88		
71+03.00	71+28.00	HWY. 102B RT.	25.00	23.25	5.81	18.06	50.17	0.05	2.51	3.47	9.64	385	1.86	3.47	9.64	220	1.06	14.59	40.53	220	4.46	5.52
71+28.00	74+05.00	HWY. 102B RT.	277.00	39.25	108.72	25.61	788.22	0.05	39.41	7.61	234.22	385	45.09	7.61	234.22	220	25.76	18.00	554.00	220	60.94	86.70
72+41.00	73+29.00	HWY. 102B LT.	88.00	30.75	27.06	21.80	213.16	0.05	10.66	5.42	53.00	385	10.20	5.42	53.00	220	5.83	16.38	160.16	220	17.62	23.45
73+29.00	74+05.00	HWY. 102B RT.	76.00	37.00	28.12	25.08	211.79	0.05	10.59	7.01	59.20	385	11.40	7.01	59.20	220	6.51	18.07	152.59	220	16.78	23.29
74+05.00	74+15.00	HWY. 102B LT.	10.00	37.75	3.78	25.44	28.27	0.05	1.41	7.19	7.99	385	1.54	7.19	7.99	220	0.88	18.25	20.28	220	2.23	3.11
74+05.00	74+15.00	HWY. 102B RT.	10.00	41.00	4.10	26.35	29.28	0.05	1.46	8.05	8.94	385	1.72	8.05	8.94	220	0.98	18.30	20.33	220	2.24	3.22
74+15.00	75+00.00	HWY. 102B LT.	85.00	63.25	53.76	56.53	533.89	0.05	26.69	13.77	130.05	385	25.03	13.77	130.05	220	14.31	42.76	403.84	220	44.42	58.73
74+15.00	75+00.00	HWY. 102B RT.	85.00	54.00	45.90	54.12	511.13	0.05	25.56	11.36	107.29	385	20.65	11.36	107.29	220	11.80	42.76	403.84	220	44.42	56.22
75+00.00	75+85.00	HWY. 102B LT.	85.00	62.75	53.34	56.85	536.92	0.05	26.85	13.66	129.01	385	24.83	13.66	129.01	220	14.19	43.19	407.91	220	44.87	59.06
75+00.00	75+85.00	HWY. 102B RT.	85.00	53.25	45.26	53.15	501.97	0.05	25.10	11.21	105.87	385	20.38	11.21	105.87	220	11.65	41.94	396.10	220	43.57	55.22
75+85.00	75+95.00	HWY. 102B LT.	10.00	37.50	3.75	25.39	28.21	0.05	1.41	7.14	7.93	385	1.53	7.14	7.93	220	0.87	18.25	20.28	220	2.23	3.10
75+85.00	75+95.00	HWY. 102B RT.	10.00	41.25	4.13	26.32	29.24	0.05	1.46	8.07	8.97	385	1.73	8.07	8.97	220	0.99	18.25	20.28	220	2.23	3.22
75+95.00	78+36.00	HWY. 102B LT.	241.00	36.00	86.76	24.77	663.29	0.05	33.16	6.77	181.29	385	34.90	6.77	181.29	220	19.94	18.00	482.00	220	53.02	72.96
75+95.00	78+36.00	HWY. 102B RT.	241.00	40.00	96.40	25.79	690.60	0.05	34.53	7.79	208.60	385	40.16	7.79	208.60	220	22.95	18.00	482.00	220	53.02	75.97
78+36.00	78+61.00	HWY. 102B LT.	25.00	23.00	5.75	6.88	19.11	0.05	0.96	3.44	9.56	385	1.84	3.44	9.56	220	1.05	3.44	9.56	220	1.05	2.10
78+36.00	78+61.00	HWY. 102B RT.	25.00	24.75	6.19	7.68	21.33	0.05	1.07	3.84	10.67	385	2.05	3.84	10.67	220	1.17	3.84	10.67	220	1.17	2.34
78+36.00	79+36.00	HWY. 102B - TRANSITION	100.00			22.23	247.00	0.05	12.35							22.23	247.00	220	27.17	27.17		
ADDITIONAL FOR LEVELING																						
68+89.00	71+00.00	HWY. 102B LT.	211.00			11.70	274.30	0.17	46.63							11.70	274.30	220	30.17	30.17		
68+89.00	71+00.00	HWY. 102B RT.	211.00			11.02	258.36	0.17	43.92							11.02	258.36	220	28.42	28.42		
78+00.00	78+36.00	HWY. 102B LT.	36.00			11.12	44.48	0.17	7.56							11.12	44.48	220	4.89	4.89		
78+00.00	78+36.00	HWY. 102B RT.	36.00			10.32	41.28	0.17	7.02							10.32	41.28	220	4.54	4.54		
PROFILE CORRECTION																						
71+00.00	78+00.00	HWY. 102B	700.00			20.00	1555.56	0.17	264.45	20.00	1555.56	440	342.22									
TOTALS:																						
				578.83		8353.39		678.55		2827.79		587.13		1272.23		139.94		5525.62		607.80	747.74	

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2") 94.6% MIN. AGGR 5.4% ASPHALT BINDER
 ACHM BINDER COURSE (1") 95.7% MIN. AGGR 4.3% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22
 MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22

CONCRETE BASE

STATION	STATION	LOCATION	LENGTH FEET	PORTLAND CEMENT CONCRETE BASE		PORTLAND CEMENT CONCRETE BASE	
				AVG. WID.	6" U.T.	AVG. WID.	5.5" U.T.
				FEET	SQ. YD.	FEET	SQ. YD.
68+89.90	72+41.00	HWY. 102B LT.	351.10	3.52	137.32	1.02	39.79
TOTALS:					137.32		39.79

4" PIPE UNDERDRAIN

STATION	STATION	LOCATION	4" PIPE UNDERDRAIN	UNDERDRAIN OUTLET
			LIN. FT.	EACH
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			1000	4
TOTALS:			1000	4

*QUANTITIES ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

BENCH MARKS

STATION	LOCATION	BENCH MARKS
		EACH
75+75	HWY. 102B LT.	1
20+80	TOWN VU ROAD RT.	1
TOTAL:		2

NOTE: SHOWN FOR INFORMATION ONLY. BENCH MARKS SHALL BE FURNISHED AND PLACED BY STATE FORCES.



QUANTITIES FOR
 FAP NO. STPU-9082(2)

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
15+72.00	18+50.00	SEBA ROAD	7	2
21+50.00	28+52.00	TOWN VU ROAD	50	
TOTALS:			57	2

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

CONCRETE WALKS

STATION	STATION	SIDE	DESCRIPTION	LENGTH	CONCRETE WALKS
				LIN. FT.	SQ. YD.
15+72.00	19+42.00	RT.	SEBA RD.	369	204.89
20+58.00	26+06.00	RT.	TOWN VU RD.	547	303.98
26+55.00	28+53.00	RT.	TOWN VU RD.	213	118.34
TOTALS:					627.21

WHEELCHAIR RAMPS

STATION	SIDE	DESCRIPTION	TYPE 3
			SQ. YD.
28+45.00	RT.	TOWN VU RD.	4.5
TOTALS:			4.5



REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB AND GUTTER	CONCRETE DRIVEWAYS	WALKS
			LIN. FT.	SQ. YD.	SQ. YD.
26+15.00	26+46.00	TOWN VU RD. - DRIVEWAY ON RT.		28	
19+22.00	19+83.00	SEBA RD. - CURB ON LT.	67		
19+23.00	19+85.00	SEBA RD. CURB ON RT.	67		
20+16.00	20+85.00	TOWN VU RD. CURB ON RT.	80		
20+17.00	20+85.00	TOWN VU RD. CURB ON LT.	78		
19+22.00	19+53.00	SEBA RD. SIDEWALK ON LT.			18
19+63.00	19+82.00	SEBA RD. SIDEWALK ON LT.			15
TOTALS:			292	28	33

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT	TACK COAT
			FT.	SQ. YD.	(0.17 GAL / SQ. YD.)
					GAL.
19+14.00	19+78.00	SEBA RD.	34	241	41
20+53.00	20+82.00	TOWN VU RD.	33	106	18
*ENTIRE PROJECT	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			125	21
TOTALS:				472	80

NOTE: QUANTITIES ARE ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

CONCRETE DITCH PAVING

STATION	LOCATION	LENGTH	WIDTH "W"	CONC. DITCH PAVING (TYPE SPECIAL)	SOLID SODDING	WATER
		FT.		SQ. YD.		M. GAL.
20+32.00	TOWN VU ROAD LT.	58	8.0	52	13	0.16
20+80.00	TOWN VU ROAD RT.	5	5.0	3	2	0.03
20+80.00	TOWN VU ROAD LT.	3	5.0	2	1	0.01
TOTALS:				57	16	0.20

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL										
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SOLID SODDING	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS	ROCK DITCH CHECKS	DROP INLET SILT FENCE	SILT FENCE	** SEDIMENT REMOVAL AND DISPOSAL		
																	ACRE	TON
15+62.00	19+25.00	SEBA RD. RT. STAGE 2	0.01	0.02	0.01	2.7	0.01	136.26	0.35	0.35	8.9					75	346	17
20+75.00	28+50.00	TOWN VU RD. RT. STAGE 2	0.02	0.04	0.02	4.5	0.02	193.63	0.13	0.13	5.1				50	930	39	
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER				0.50		51.0	0.39				10.2	110	15	60	250	50		
TOTALS:			0.03	0.56	0.03	58.2	0.42	329.89	0.48	0.98	24.2	110	15	185	1526	106		

BASIS OF ESTIMATE:
LIME.....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G./ACRE OF SEEDING
WATER.....20.4 M.G./ACRE OF TEMPORARY SEEDING
WATER.....12.6 GAL./SQ. YD. OF SOLID SODDING
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
DROP INLET SILT FENCE.....25 LIN.FT./LOCATION
ROCK DITCH CHECKS.....3 CU. YDS. PER DITCH

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

** QUANTITIES ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	LOCATION	WIDTH	LENGTH	TON
		FEET		
19+20.00	SEBA RD.	8.50	32	15
19+58.00	SEBA RD.	10.33	33	19
20+64.00	TOWN VU RD.	7.92	35	15
TOTAL:				49

AVG. DEPTH = USE MIN. 9"

FLOWABLE SELECT MATERIAL

STATION	LOCATION	CU. YD.
19+69.00	SEBA RD.	7
20+23.00	TOWN VU RD.	3
20+23.00	TOWN VU RD.	1
TOTAL:		11

TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS

STRUCTURES

STATION	DESCRIPTION	REINFORCED CONCRETE ARCH PIPE CULVERT			FLARED END SECTIONS FOR R.C. ARCH PIPE CULVERTS			DROP INLETS			DROP INLET EXTENSIONS	SOLID SODDING	WATER	STD. DWG. NOS.
		CLASS IV			22" x 14"	29" x 18"	44" x 27"	TYPE MO	TYPE SPECIAL	TYPE RM SPECIAL				
		22" x 14"	29" x 18"	44" x 27"							4'			
		LIN. FT.	EACH			SQ. YD.	M. GAL.							
19+20.00	SEBA ROAD LT.		40				1			1			FPC-9M,FPC-9E,PCC-1,FES-1,FES-2	
19+20.00	SEBA ROAD RT.		43				1			1			FPC-9M,FPC-9E,PCC-1,FES-1,FES-2	
19+58.00	SEBA ROAD LT.			120							17	0.21	PCC-1, FES-1, FES-2, SPECIAL DETAILS	
20+64.00	TOWN VU ROAD	50			1						10	0.13	PCC-1, PFE-1, FES-2	
20+80.00	TOWN VU ROAD LT.										1	0.01	SPECIAL DETAILS	
20+80.00	TOWN VU ROAD RT.										1	0.01	SPECIAL DETAILS	
TOTALS:		50	83	120	1	1	1	2	2	1	2	30	0.37	

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.
NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.
NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

DRIVEWAYS & TURNOUTS

STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB	PORTLAND CEMENT CONCRETE DRIVEWAY	AGGREGATE BASE COURSE (CLASS 7)
			FEET	STATION	STATION	TON
26+30.50	RT.	TOWN VU RD.	21	26+06	26+56	51.69
*ENTIRE PROJECT TEMPORARY DRIVES						20.00
TOTALS:						51.69

* QUANTITY ESTIMATED
SEE SECTION 104.03 OF THE STD. SPECS. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.
** FOR INFORMATION ONLY

THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

**QUANTITIES FOR
FAP NO. TAPF-9082(2)**

SUMMARY OF QUANTITIES

Table with 7 columns: ITEM NUMBER, ITEM, STPLU-9082(2), TAPF-9082(2), TOTAL, UNIT. Rows include items like CLEARING, GRUBBING, REMOVAL AND DISPOSAL OF CURB AND GUTTER, etc.

Summary table with columns: DATE REVISED, DATE FILMED, FEDERAL DIST. NO., STATE, FED. AID PROJ. NO., SHEET NO., TOTAL SHEETS.

2 SUMMARY OF QUANTITIES AND REVISIONS

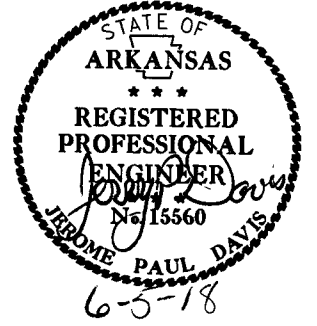
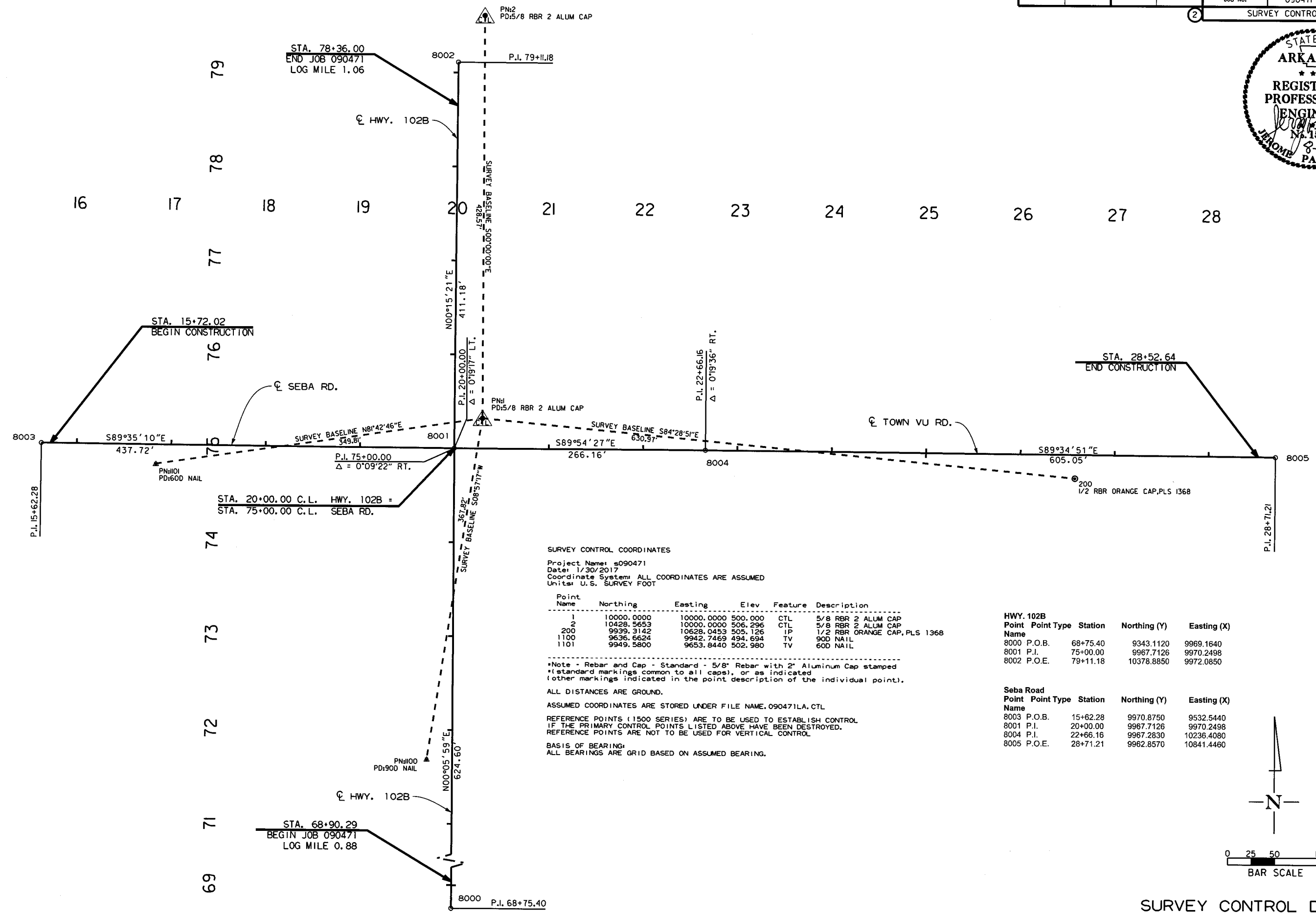


Table with 2 columns: DATE, REVISIONS REVISION. Includes a SHEET NUMBER column on the right.

SUMMARY OF QUANTITIES AND REVISIONS

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.	090471
							SHEET NO.	22
							TOTAL SHEETS	41

2 SURVEY CONTROL DETAILS



SURVEY CONTROL COORDINATES
 Project Name: s090471
 Date: 1/30/2017
 Coordinate System: ALL COORDINATES ARE ASSUMED
 Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	10000.0000	10000.0000	500.000	CTL	5/8 RBR 2 ALUM CAP
2	10428.5653	10000.0000	506.296	CTL	5/8 RBR 2 ALUM CAP
200	9939.3142	10628.0453	505.126	IP	1/2 RBR ORANGE CAP, PLS 1368
1100	9636.6624	9942.7469	494.694	TV	90D NAIL
1101	9949.5800	9653.8440	502.980	TV	60D NAIL

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped (standard markings common to all caps), or as indicated (other markings indicated in the point description of the individual point).

ALL DISTANCES ARE GROUND.
 ASSUMED COORDINATES ARE STORED UNDER FILE NAME: 090471LA.CTL
 REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
 REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL.

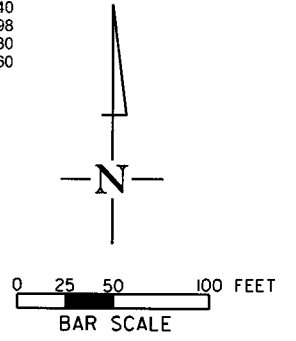
BASIS OF BEARING:
 ALL BEARINGS ARE GRID BASED ON ASSUMED BEARING.

HWY. 102B

Point Name	Point Type	Station	Northing (Y)	Easting (X)
8000	P.O.B.	68+75.40	9343.1120	9969.1640
8001	P.I.	75+00.00	9967.7126	9970.2498
8002	P.O.E.	79+11.18	10378.8850	9972.0850

Seba Road

Point Name	Point Type	Station	Northing (Y)	Easting (X)
8003	P.O.B.	15+62.28	9970.8750	9532.5440
8001	P.I.	20+00.00	9967.7126	9970.2498
8004	P.I.	22+66.16	9967.2630	10236.4080
8005	P.O.E.	28+71.21	9962.8570	10841.4460



SURVEY CONTROL DETAILS

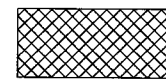
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STA. 69+00 LT. CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 4.3 SQ. YDS.

STA. 68+75 - IN PLACE
18" X 61' C.M. PIPE CULVERT
LT. SIDE DRAIN - REMOVE
INSTALL 18" X 68' R.C. PIPE CULVERT
LT. WITH F.E.S.

STA. 70+34 - CONSTRUCT
DBL. 36" X 23" X 55'
R.C. ARCH PIPE CULVERT
ON A 30° LT. FWD. SKEW
WITH F.E.S. LT. AND RT.
(CLASS V) (TYPE 1) OR 2 BEDDING)
Q25 = 51 CFS. D.A. = 42.01 AC.

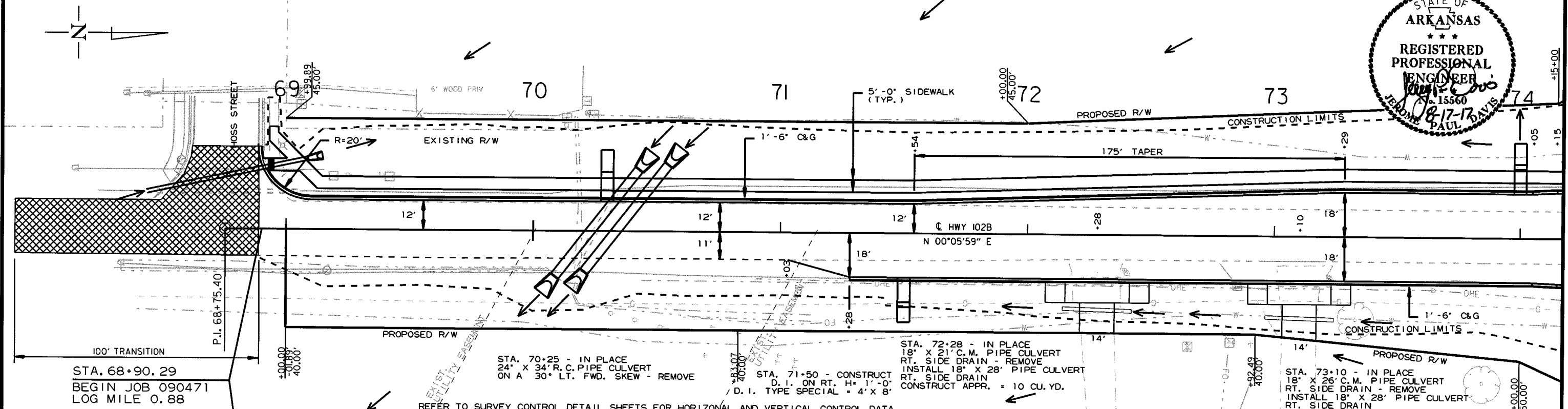
STA. 70+30 - CONSTRUCT
D.I. ON LEFT H=1'-0"
WITH 4' EXTENSION
D.I. TYPE SPECIAL = 4' X 8'



DENOTES MILL AND INLAY

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.		090471	23	41

PLAN AND PROFILE HWY. 102B



STA. 68+90.29
BEGIN JOB 090471
LOG MILE 0.88

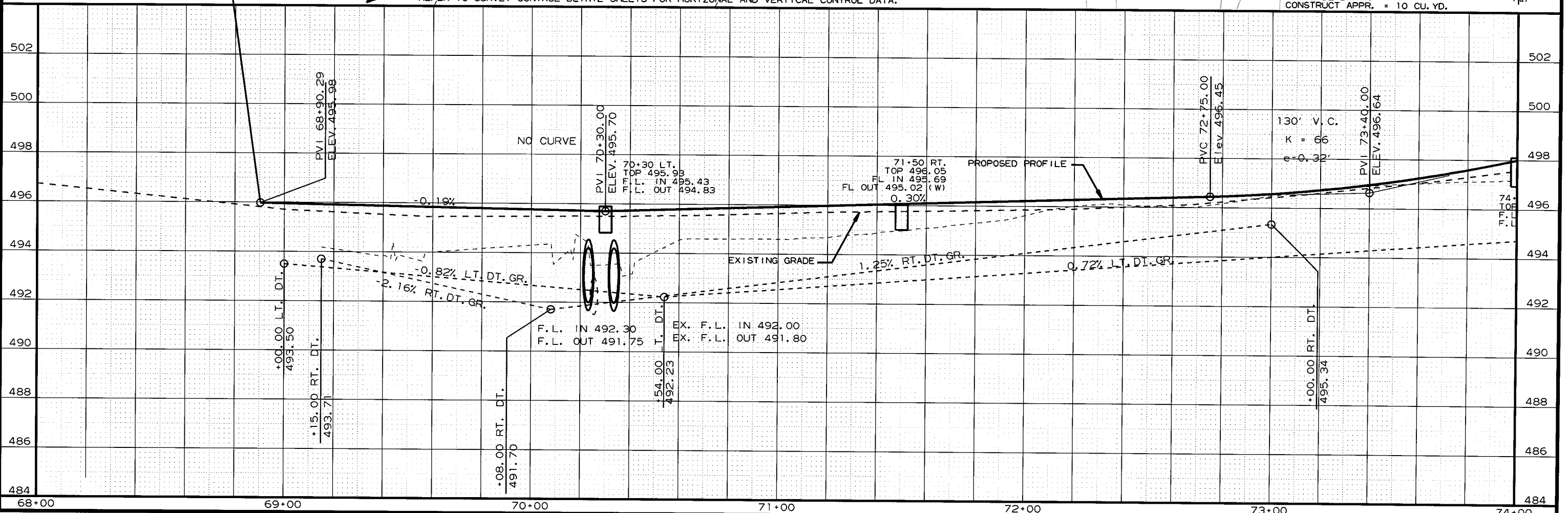
STA. 70+25 - IN PLACE
24" X 34' R.C. PIPE CULVERT
ON A 30° LT. FWD. SKEW - REMOVE

STA. 71+50 - CONSTRUCT
D.I. ON RT. H=1'-0"
D.I. TYPE SPECIAL = 4' X 8'

STA. 72+28 - IN PLACE
18" X 21' C.M. PIPE CULVERT
RT. SIDE DRAIN - REMOVE
INSTALL 18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPR. = 10 CU. YD.

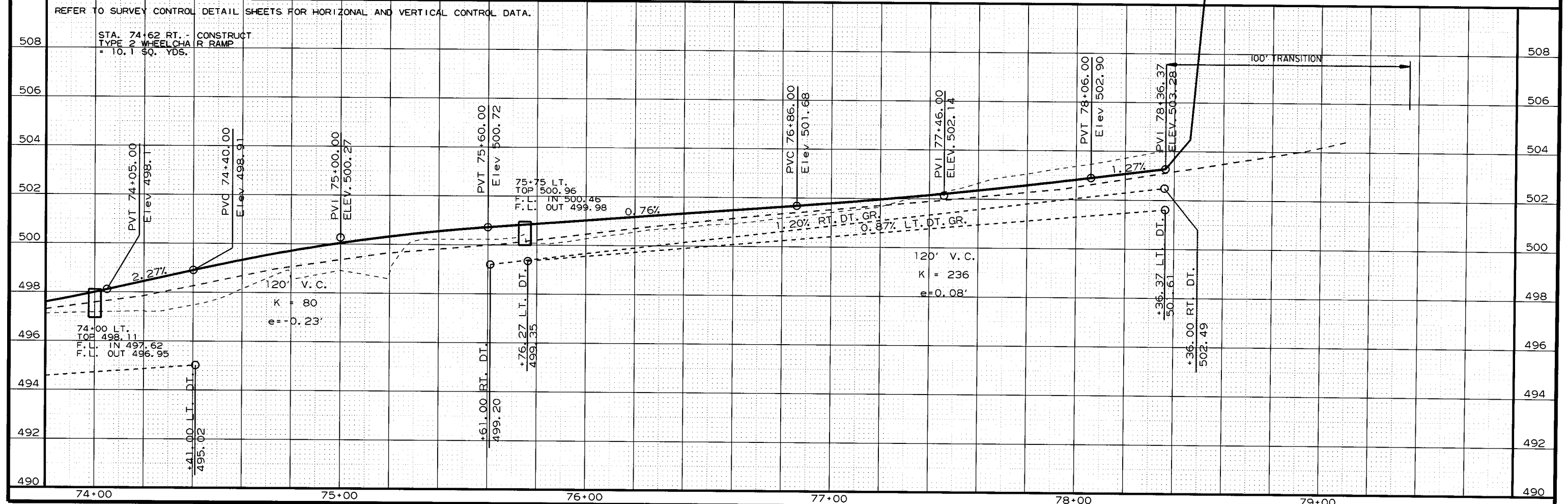
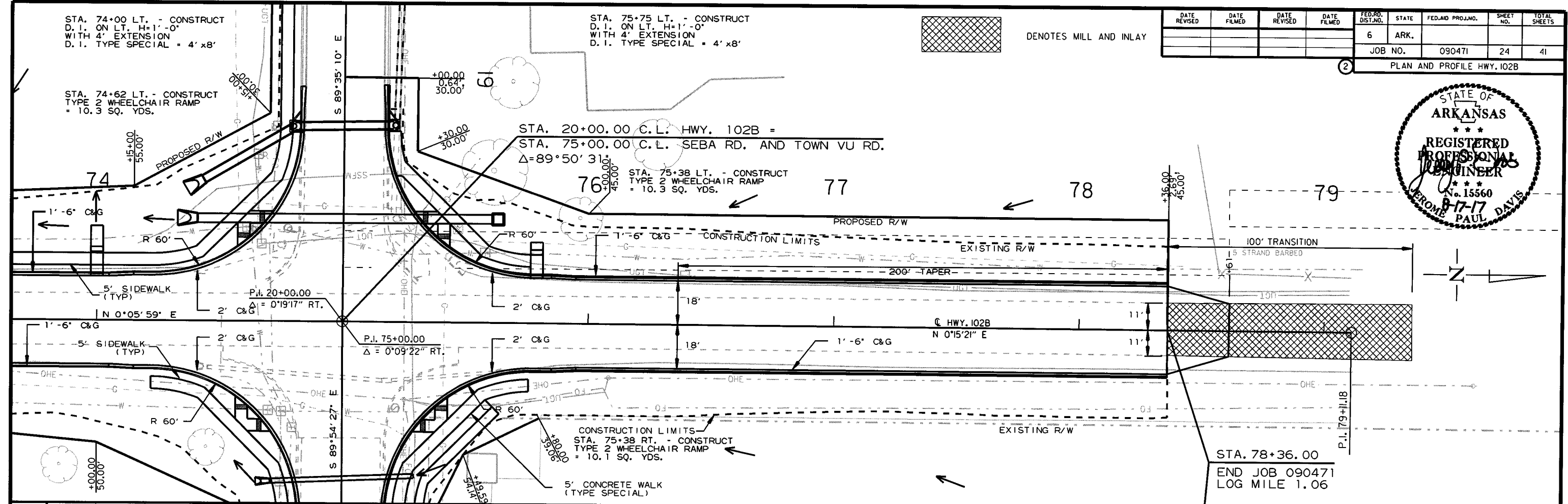
STA. 73+10 - IN PLACE
18" X 26' C.M. PIPE CULVERT
RT. SIDE DRAIN - REMOVE
INSTALL 18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPR. = 10 CU. YD.

REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.



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SCALE: 40'

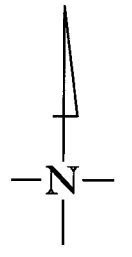
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				6	ARK.		24	41
				JOB NO.		090471	24	41
				PLAN AND PROFILE HWY. 102B				



USER: fs513
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 MODEL: PLAN AND PROFILE 5
 SCALE: 40:1

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.	090471	25	41	

2 PLAN AND PROFILE SEBA RD.

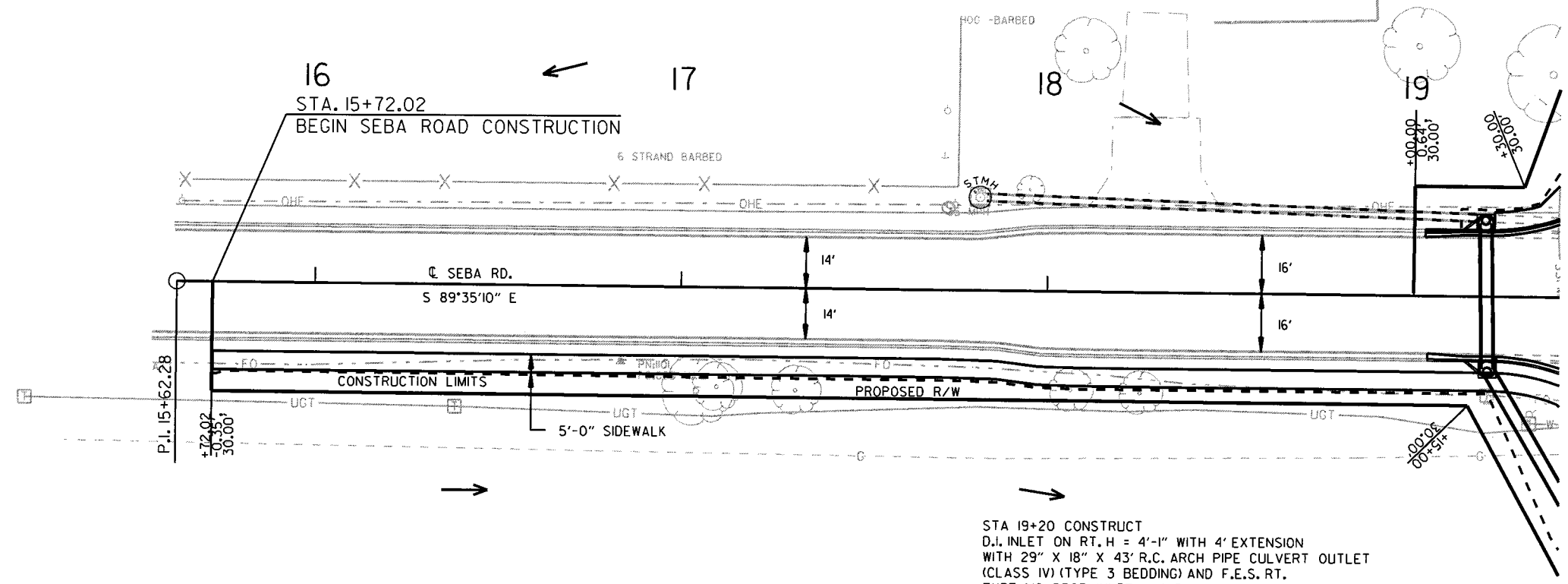


STA. 17+81 IN PLACE
D.J. LT. WITH 29" X 18" X 139' ARCH PIPE
REMOVE 39' AND CONNECT TO D.J. LT.

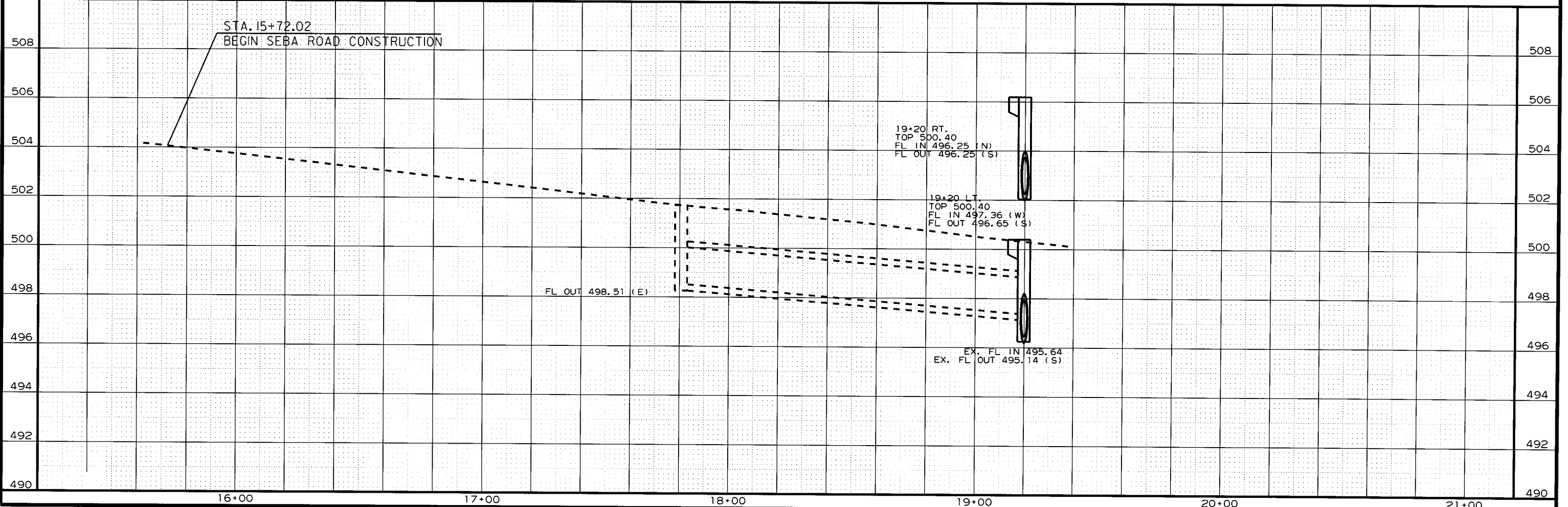
STA. 18+29 IN PLACE
APPROACH LT. RETAIN

STA 19+20 CONSTRUCT
D.I. INLET ON LT. H = 3'-9" WITH 4' EXTENSION
WITH 29" X 18" X 40' R.C. ARCH PIPE CULVERT OUTLET
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 19+20 RT.
TYPE M0 DROP INLET = 4' DIA
TYPE C DROP INLET = 4'X4'

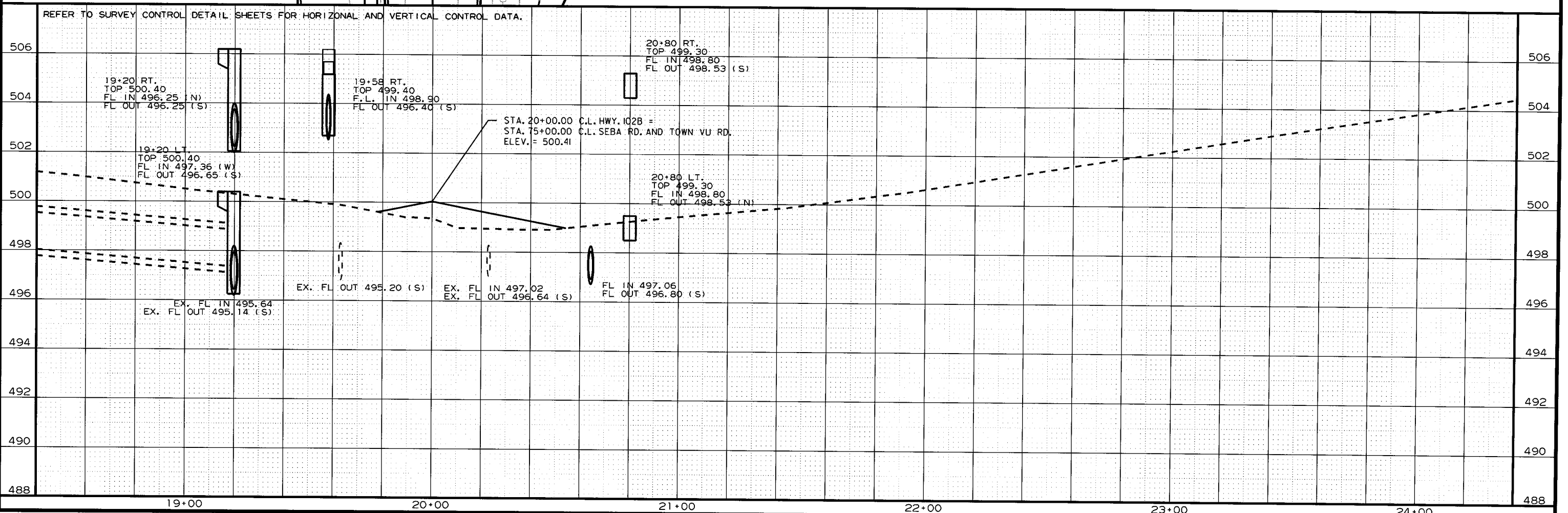
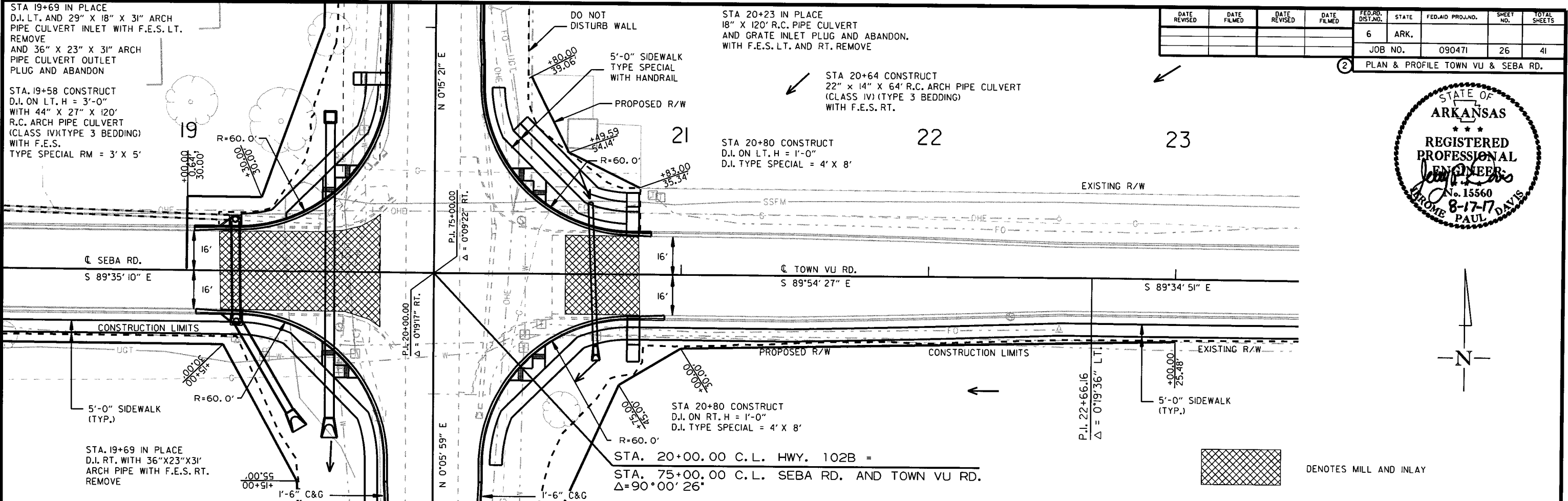
STA 19+20 CONSTRUCT
D.I. INLET ON RT. H = 4'-1" WITH 4' EXTENSION
WITH 29" X 18" X 43' R.C. ARCH PIPE CULVERT OUTLET
(CLASS IV) (TYPE 3 BEDDING) AND F.E.S. RT.
TYPE M0 DROP INLET = 4' DIA
TYPE C DROP INLET = 4'X4'



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.



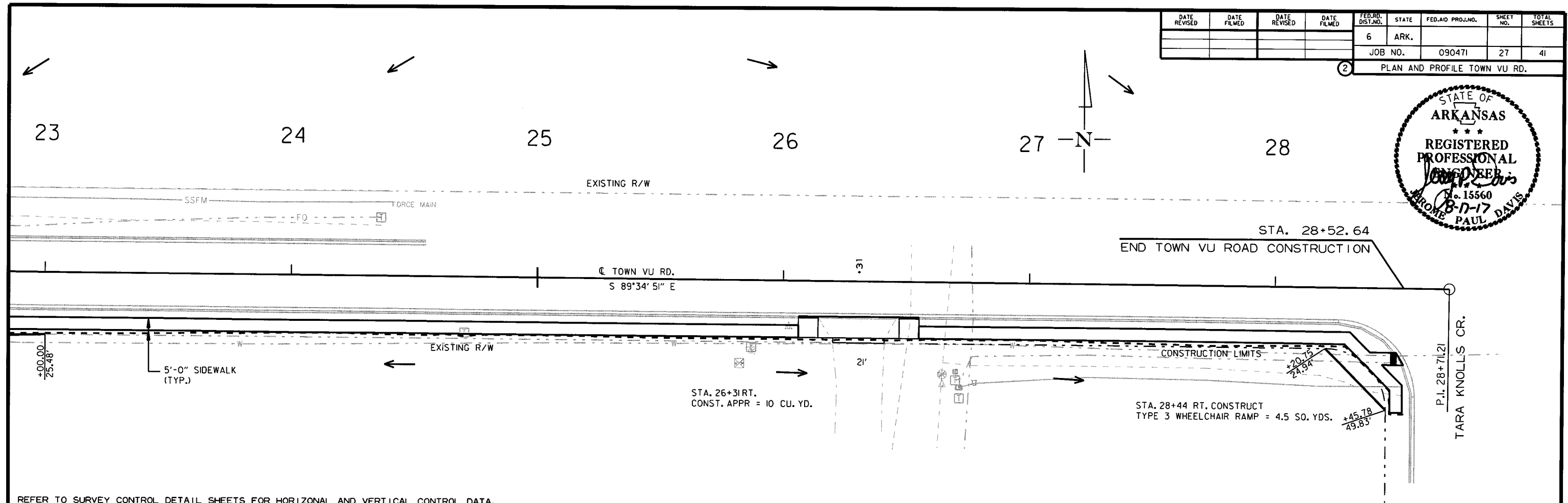
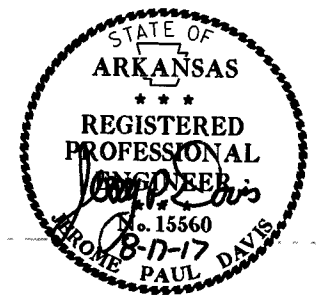
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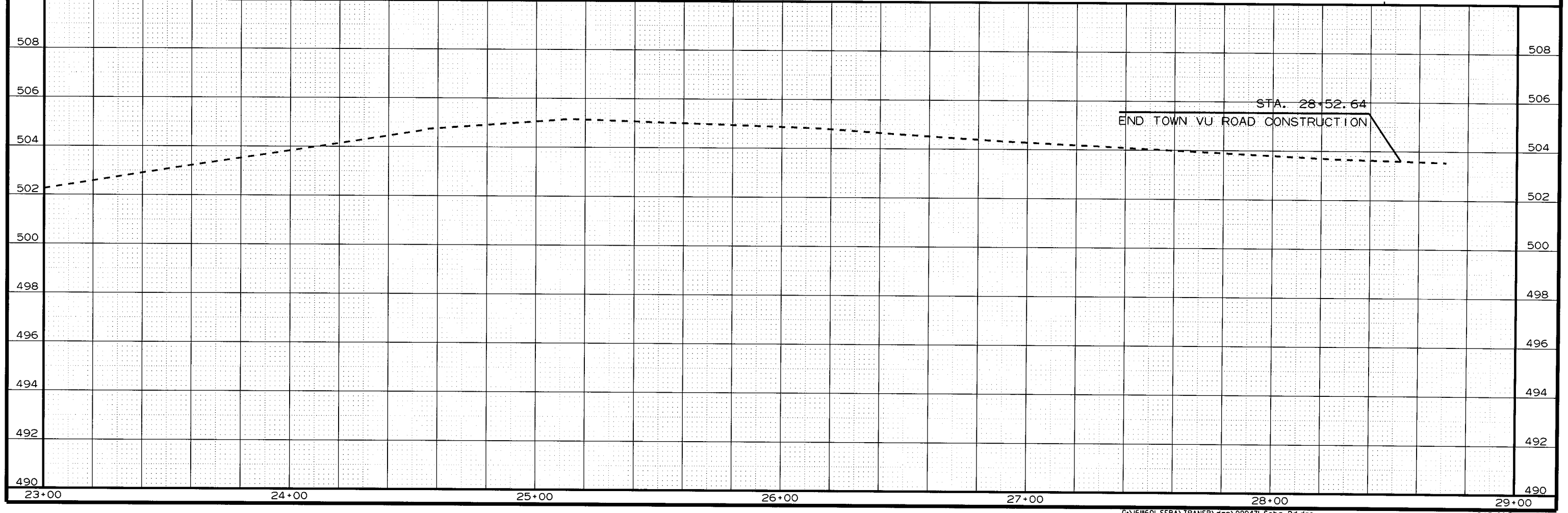
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 SCALE: 40'

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.	090471	27	41	

PLAN AND PROFILE TOWN VU RD.



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.



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 MODEL: PLAN AND PROFILE 3
 SCALE: 40:1

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.		090471	28	41

2 TRAFFIC SIGNAL NOTES



TRAFFIC SIGNAL NOTES

1. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2014) NATIONAL ELECTRICAL CODE, NFPA 01 (2012) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.
2. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM ROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND E.G.C. TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.
3. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. IF THE SERVICE POINT IS OVER 10 FEET FROM THE CONTROLLER, THE CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE TWO CIRCUIT EXTERNAL BREAKER (SECONDARY BREAKER) ON OR NEAR THE TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL INSTALL CONDUIT, ELECTRICAL SERVICE WIRE (2c/*6 USE RATED, WITH GROUND TYPICAL), AND PERFORM WIRING TO TAP INTO THE CITY'S/COUNTY'S MAIN BREAKER AS PART OF THIS CONTRACT. CONDUIT IS PAID FOR AS A SEPARATE ITEM OF THIS CONTRACT. TWO CIRCUIT BREAKERS, CONSIDERED SUBSIDIARY TO THE CONTROL EQUIPMENT, ARE NEEDED WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2c/*12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT FROM THE CIRCUIT SERVING THE TRAFFIC SIGNAL CONTROL EQUIPMENT FROM THE POINT OF TIE-IN AT THE SECONDARY BREAKER PROVIDED BY THE CONTRACTOR.
4. CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.
5. TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.
6. CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.
7. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, STANDARD DRAWINGS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.
8. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE STANDARD DRAWINGS MAY BE USED.
9. TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.
10. PAVEMENT MARKINGS SHOWN FOR REFERENCE ONLY. SEE PERMANENT PAVEMENT MARKING DETAILS.
11. FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENTS FOR SIGNAL HEAD CLEARANCE ABOVE ROADWAY ONLY AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY (SEE NOTES ON STANDARD DRAWING). PAYMENT WILL BE INCLUDED IN SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
12. ALL CONCRETE PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE THREE (3') INCH DIAMETER UNLESS SPECIFIED ON PLANS.
13. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.
14. LUMINAIRE ASSEMBLIES SHALL BE OF THE FULL CUTOFF TYPE.

15. HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE. COMBINATION (COMB.) DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.
16. THE LOCAL RADIO WITH ANTENNA SHALL BE COMPATIBLE WITH THE EXISTING CLOSED LOOP COORDINATION SYSTEM IN THE CITY/COUNTY.
17. TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, THIRTY-EIGHT (38') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF TWENTY-ONE (21') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL SIX (6') FEET SHOULD BE USED DIRECTLY ABOVE 'VIDEO DETECTOR' AT LOCATIONS SHOWN ON THE SIGNAL PLANS.
18. THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS SIX (6') FEET. REFER TO TRAFFIC SIGNAL PLANS FOR SPECIFIC LOCATION OF POLES, CONTROLLER AND ANY OTHER NON-BREAKAWAY OBSTRUCTIONS. REFER TO 'DESIGN PARAMETERS, MINIMUM CLEAR ZONE DISTANCE' FOR MINIMUM DISTANCE FROM THE EDGE OF TRAVELED WAY TO THE FACE OF A NON-BREAKAWAY POLE OR OBSTRUCTION. TRAFFIC SIGNAL POLES OR ANY OTHER NON-BREAKAWAY OBSTRUCTION SHALL NOT BE INSTALLED WITHIN THE CLEAR ZONE.
19. AS DETERMINED BY THE ENGINEER, FOUNDATION EMBEDMENT MAY BE DECREASED BY A MAXIMUM OF TWO FEET IF COMPETENT ROCK IS ENCOUNTERED PRIOR TO ACHIEVING PLAN EMBEDMENT AND AT LEAST HALF OF THE REMAINING PLAN EMBEDMENT LENGTH IS KEPT INTO COMPETENT ROCK.
20. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING. PAYMENT FOR TERMINAL STRIPS SHALL BE INCLUDED IN ITEM 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
21. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.
22. ONE VIDEO PROGRAMMING MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE JOB.
23. TRAFFIC SIGNAL CONTRACTOR MUST NOTIFY RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO SIGNAL RELATED WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR NOTIFICATION.
24. ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION (2001) WITH 2003 AND 2006 INTERIMS.
25. DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL JUMPERS MAY REQUIRE MODIFICATION.
26. ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER SURGE PROTECTION.

LOCATION: HWY. 102B/SEBA ROAD
 CITY: CENTERTON
 COUNTY: BENTON
 DISTRICT: 9 SCALE: N/A DRAWN BY: FLS

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		29	41
				JOB NO.	090471		SUMMARY OF TRAFFIC SIGNAL QUANTITIES	

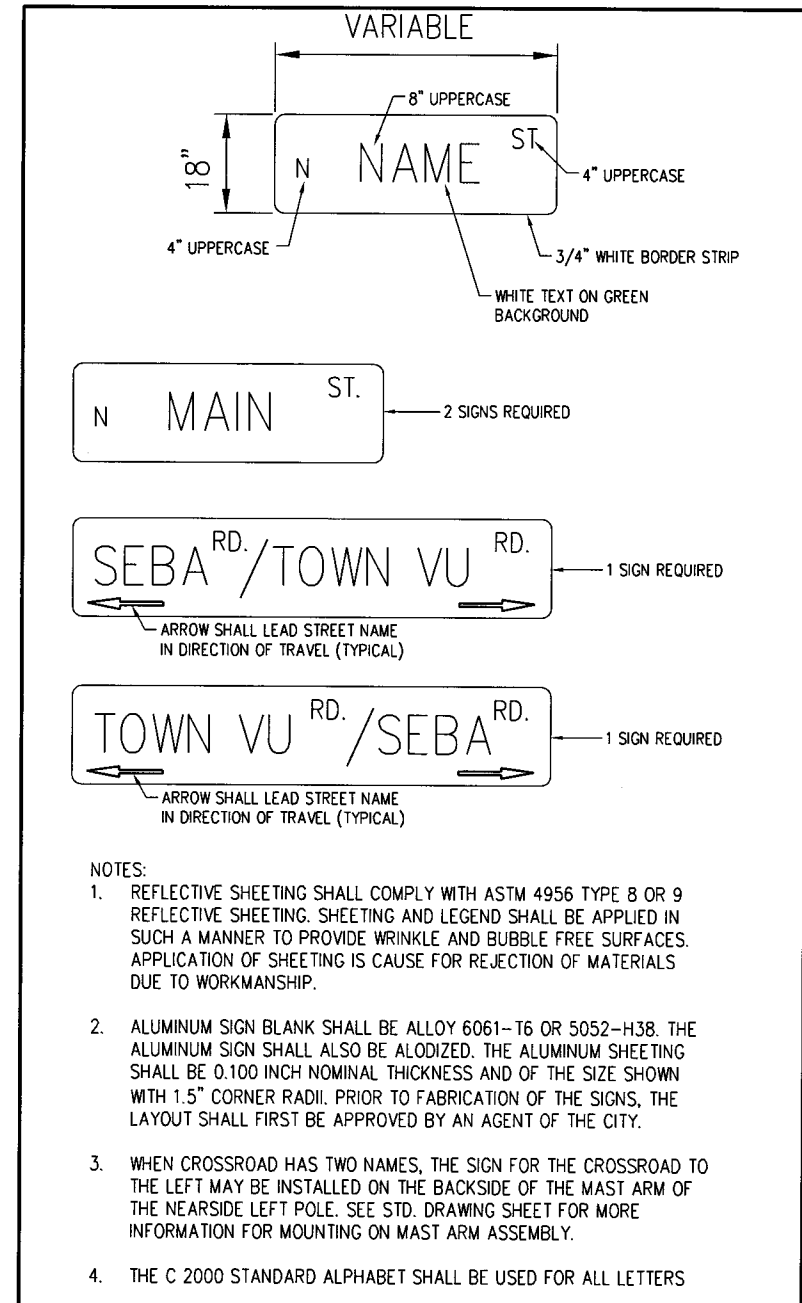
2 SUMMARY OF TRAFFIC SIGNAL QUANTITIES



ITEM NO.	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS 2-TYPE 2 (8 PHASES)	1	EACH
SP	LOCAL RADIO WITH ANTENNA	1	EACH
SP	ANTENNA CABLE (TYPE 6)	80	LIN. FT.
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	10	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	4	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	2870	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	235	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	560	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	480	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	200	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	20	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	690	LIN. FT.
709	GALVANIZED STEEL CONDUIT (1.25")	20	LIN. FT.
710	NON-METALLIC CONDUIT (1.25")	20	LIN. FT.
710	NON-METALLIC CONDUIT (2")	50	LIN. FT.
710	NON-METALLIC CONDUIT (3")	570	LIN. FT.
711	CONCRETE PULL BOX (TYPE 2)	1	EACH
711	CONCRETE PULL BOX (TYPE 1 HD)	1	EACH
711	CONCRETE PULL BOX (TYPE 2 HD)	7	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (36')	2	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (38')	2	EACH
SP	LED LUMINAIRE ASSEMBLY	4	EACH
715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	4	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	18" STREET NAME SIGN	4	EACH
* SP & 733	VIDEO DETECTOR (CLR)	9	EACH
SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	1	EACH
733	VIDEO CABLE	1500	LIN. FT.
733	VIDEO MONITOR (CLR)	1	EACH
* SP & 733	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	5	EACH

* ONE SPARE VIDEO DETECTOR AND ONE SPARE VIDEO PROCESSOR SHALL BE SUPPLIED.

OVERHEAD STREET NAME MARKER
STANDARD MAST ARM MOUNTED



- NOTES:
- REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES. APPLICATION OF SHEETING IS CAUSE FOR REJECTION OF MATERIALS DUE TO WORKMANSHIP.
 - ALUMINUM SIGN BLANK SHALL BE ALLOY 6061-T6 OR 5052-H38. THE ALUMINUM SIGN SHALL ALSO BE ALODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN WITH 1.5" CORNER RADII. PRIOR TO FABRICATION OF THE SIGNS, THE LAYOUT SHALL FIRST BE APPROVED BY AN AGENT OF THE CITY.
 - WHEN CROSSROAD HAS TWO NAMES, THE SIGN FOR THE CROSSROAD TO THE LEFT MAY BE INSTALLED ON THE BACKSIDE OF THE MAST ARM OF THE NEAR SIDE LEFT POLE. SEE STD. DRAWING SHEET FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.
 - THE C 2000 STANDARD ALPHABET SHALL BE USED FOR ALL LETTERS

LOCATION: HWY. 102B/SEBA ROAD
CITY: CENTERTON
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: FLS

HWY. 102B/SEBA RD. DESIGN PARAMETERS

POSTED SPEED LIMIT:
35 MPH EAST & WEST APPROACH
45 MPH NORTH & SOUTH APPROACH

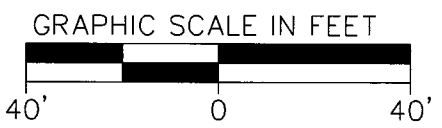
MINIMUM CLEAR ZONE DISTANCE:
CONTROLLER - 4 FEET FROM CURB
SIGNAL POLES - 4 FEET FROM CURB

NO BUS STOPS
NO RAILROAD TRACKS
NO EXISTING INTERCONNECTIONS
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

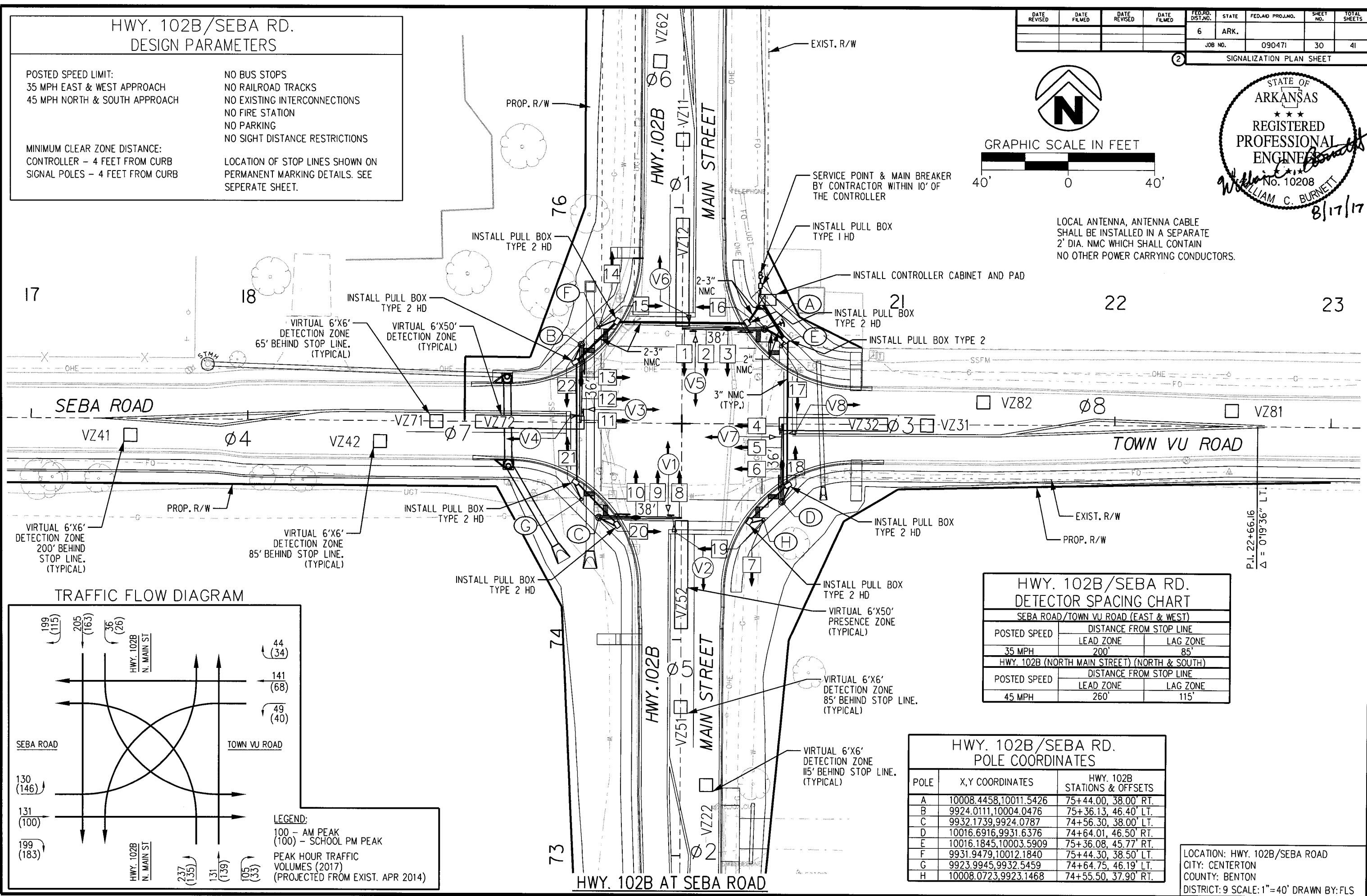
LOCATION OF STOP LINES SHOWN ON
PERMANENT MARKING DETAILS. SEE
SEPERATE SHEET.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		30	41

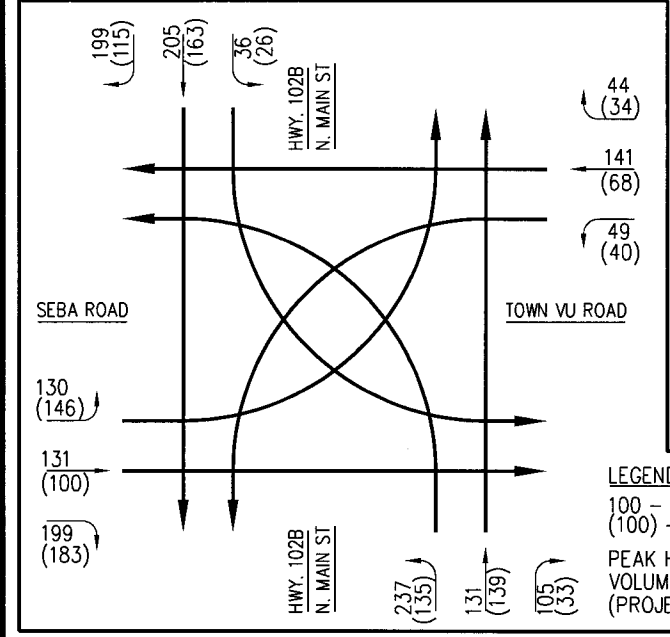
2 SIGNALIZATION PLAN SHEET



LOCAL ANTENNA, ANTENNA CABLE SHALL BE INSTALLED IN A SEPARATE 2' DIA. NMC WHICH SHALL CONTAIN NO OTHER POWER CARRYING CONDUCTORS.



TRAFFIC FLOW DIAGRAM



LEGEND:
100 - AM PEAK
(100) - SCHOOL PM PEAK
PEAK HOUR TRAFFIC VOLUMES (2017)
(PROJECTED FROM EXIST. APR 2014)

HWY. 102B/SEBA RD. DETECTOR SPACING CHART

SEBA ROAD/TOWN VU ROAD (EAST & WEST)		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD ZONE	LAG ZONE
35 MPH	200'	85'
HWY. 102B (NORTH MAIN STREET) (NORTH & SOUTH)		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD ZONE	LAG ZONE
45 MPH	260'	115'

HWY. 102B/SEBA RD. POLE COORDINATES

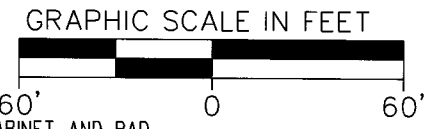
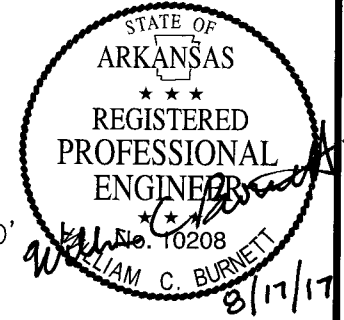
POLE	X,Y COORDINATES	HWY. 102B STATIONS & OFFSETS
A	10008.4458,10011.5426	75+44.00, 38.00' RT.
B	9924.0111,10004.0476	75+36.13, 46.40' LT.
C	9932.1739,9924.0787	74+56.30, 38.00' LT.
D	10016.6916,9931.6376	74+64.01, 46.50' RT.
E	10016.1845,10003.5909	75+36.08, 45.77' RT.
F	9931.9479,10012.1840	75+44.30, 38.50' LT.
G	9923.9945,9932.5459	74+64.75, 46.19' LT.
H	10008.0723,9923.1468	74+55.50, 37.90' RT.

LOCATION: HWY. 102B/SEBA ROAD
CITY: CENTERTON
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: FLS

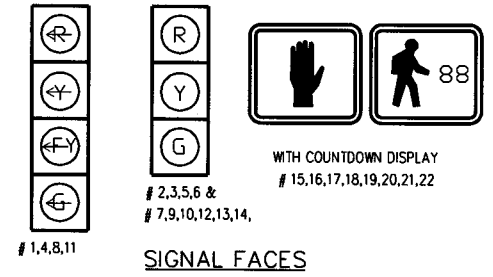
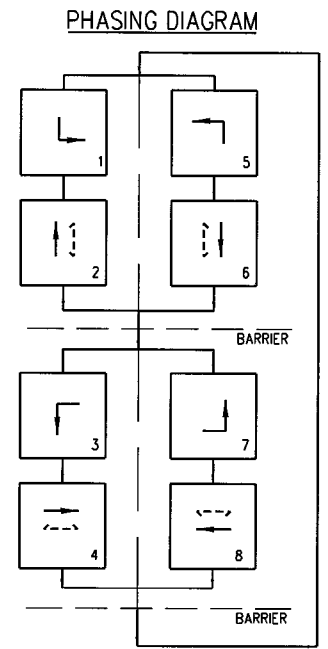
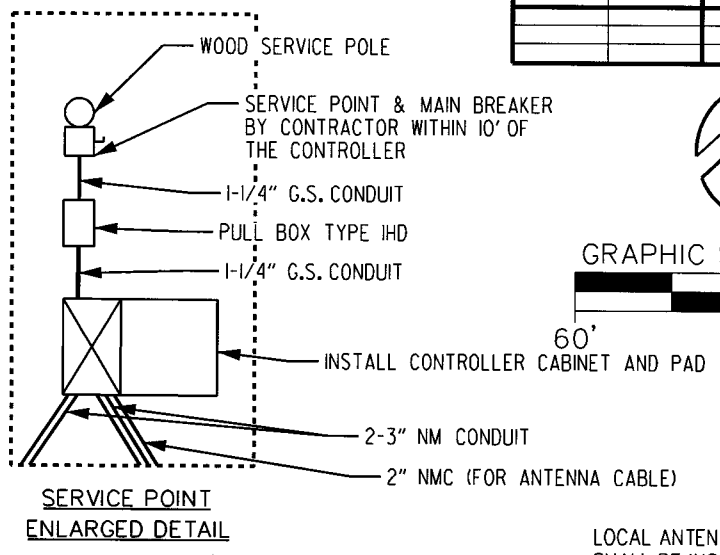
USER: fs53
DESIGN FILE: G:\1611601_SEBA\TRANSP\dgn\signals\SIGNALPLAN_Sebad.dgn
PLOTTED: 8/17/2017 11:57
SCALE: 40'

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.	090471	31	41	

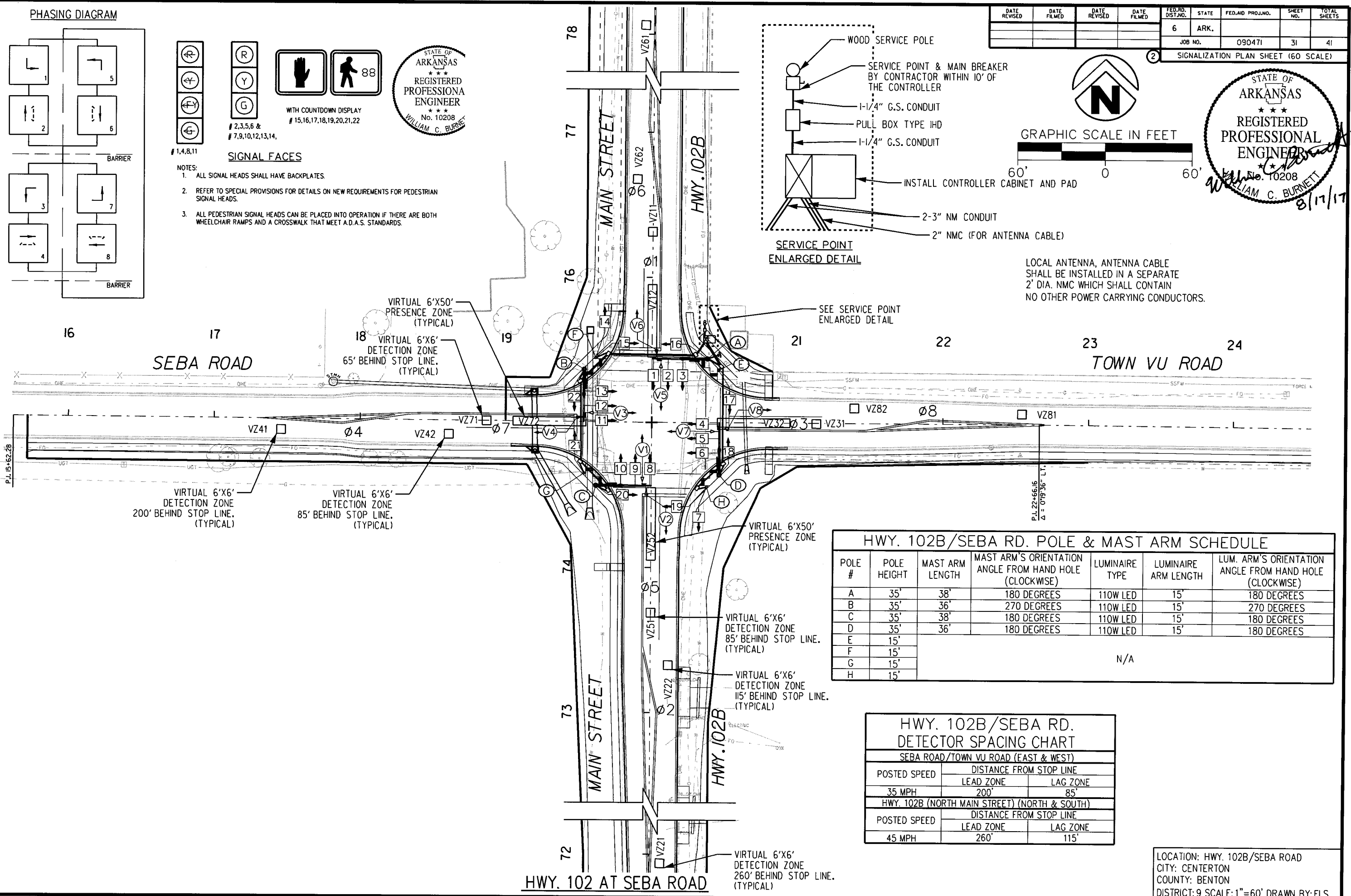
SIGNALIZATION PLAN SHEET (60 SCALE)



LOCAL ANTENNA, ANTENNA CABLE SHALL BE INSTALLED IN A SEPARATE 2' DIA. NMC WHICH SHALL CONTAIN NO OTHER POWER CARRYING CONDUCTORS.



- NOTES:
- ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
 - REFER TO SPECIAL PROVISIONS FOR DETAILS ON NEW REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
 - ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEET A.D.A.S. STANDARDS.



POLE #	POLE HEIGHT	MAST ARM LENGTH	MAST ARM'S ORIENTATION ANGLE FROM HAND HOLE (CLOCKWISE)	LUMINAIRE TYPE	LUMINAIRE ARM LENGTH	LUM. ARM'S ORIENTATION ANGLE FROM HAND HOLE (CLOCKWISE)
A	35'	38'	180 DEGREES	110W LED	15'	180 DEGREES
B	35'	36'	270 DEGREES	110W LED	15'	270 DEGREES
C	35'	38'	180 DEGREES	110W LED	15'	180 DEGREES
D	35'	36'	180 DEGREES	110W LED	15'	180 DEGREES
E	15'					
F	15'					
G	15'					
H	15'					

SEBA ROAD/TOWN VU ROAD (EAST & WEST)		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD ZONE	LAG ZONE
35 MPH	200'	85'
HWY. 102B (NORTH MAIN STREET) (NORTH & SOUTH)		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD ZONE	LAG ZONE
45 MPH	260'	115'

LOCATION: HWY. 102B/SEBA ROAD
 CITY: CENTERTON
 COUNTY: BENTON
 DISTRICT: 9 SCALE: 1"=60' DRAWN BY: FLS

USER: f6513
 DESIGN FILE: G:\N161601...SEBA\TRANSP\dgn\signals\Signal Plan_Seba.dgn
 PLOTTED: 8/17/2017 11:57
 SCALE: 60'