PROJECT LOCATION

HWY. 49/HWY. 49B/PURCELL RD. SIGNAL

DATE REVISED PATE REVISED DATE OISTANO. STATE FED.AID PROJANO. SMEET TOTAL SMEETS

6 ARK.

JOB NO. 100741 1 25

(2) HWY. 49/HWY. 49B/PURCELL RD. SIGNAL (PARGOULD) (S)

(PARAGOULD) (S)

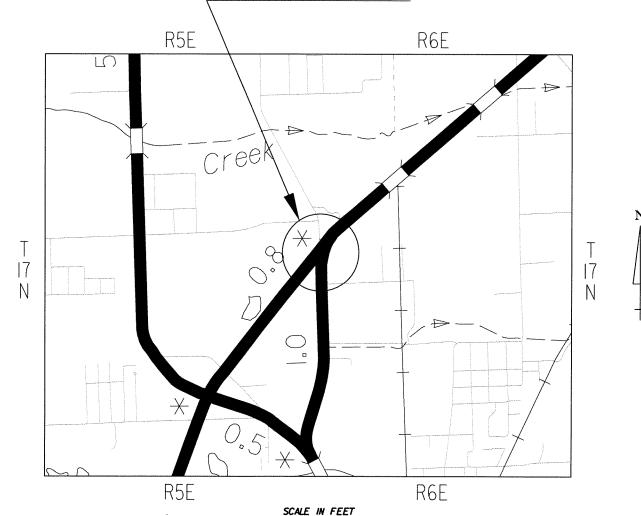
GREENE COUNTY

ROUTE 49, SECTION 2 ROUTE 49B, SECTION 2B

FAP NO. STP-9332(12)

JOB 100741

PROJECT LOCATION



DISTRICT 1

SOUTH MARCH MARCH

ARKANSAS HIGHWAY DISTRICT 10

MID POINT OF PROJECT

Long. 90°29′23″ W Lat. 36°04′49″ N





mckinney 1/1/2011 10:45:37 RKSPACE: AHTDV8 (2011\1017501 - AHTD - Paragould Sig

7/07/II +10074I_+1+.dg

SHEET NO.	TITLE	DRAWING	NO.	DATE
ı	TITLE SHEET			
2	INDEX OF SHEETS, GOVERNING SPECIFICATIONS AND NOTES			
3	SUMMARY OF QUANTITIES AND REVISIONS			
4	CONTROL DETAIL SHEET			
5	MAINTENANCE OF TRAFFIC			
6-9	ISLAND DETAILS			
10	PERMANENT PAVEMENT MARKINGS			
11-13	SIGNALIZATION PLANS			
14-19	SIGNALIZATION DETAILS			
20	CURBING DETAILS	CG-I		11-29-07
21	DETAILS OF DRIVEWAYS & ISLANDS	DR-I		11-29-07
22	PAVEMENT MARKING DETAILS	PM-I		11-17-10
23	STANDARD TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION	TC-I		11-17-10
24	STANDARD TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION	TC-2		3-11-10
25	STANDARD TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION	TC-3		10-15-09

GENERAL NOTES

- I. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON THE PLANS.
- 2. ALL PIPE LINES, POWER, TELEPHONE AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- 3. 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.
- 4. 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.
- 5. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- 6. 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.

14(1)

GOVERNING SPECIFICATIONS

JOB 100741____ VIDEO DETECTOR (COLOR)

__ WARM MIX ASPHALT

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

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	_FHWA-I273 REVISION
	_REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
	_SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
	_SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C.)
	_SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
	_SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS _SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
	_SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
111WM 1213	2301 ELIMENT WASE NATE DETERMINATION
100-2	_MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
	_DETERMINATION OF DBE PARTICIPATION
	_CONSTRUCTION CONTROL MARKINGS
	_ EQUIPMENT_AND_MATERIAL_STORAGE_ON_BRIDGE_STRUCTURES
	_ WORKER_VISIBILITY
	_ LIQUIDATED DAMAGES
	_PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX
	_MINERAL AGGREGATES _DENSITY TESTING ACHM LEVELING COURSES AND BAND BREAKERS
	_DENSITE TESTING ACHIM LEVELING COURSES AND BAND BREAKERS _MAINTENANCE OF TRAFFIC
	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
	_CONCRETE PULL BOX
	_DESIGN AND MATERIAL REQUIREMENTS FOR TRAFFIC SIGNAL MAST ARMS AND POLES
	REFLECTORIZED PAINT PAVEMENT MARKINGS
719-2	THERMOPLASTIC PAVEMENT MARKING MATERIAL
JOB 100741	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
	CABINET DRAWER ASSEMBLY
	EDGE CARD VIDEO PROCESSOR
	ELECTRICAL CONDUCTORS-IN-CONDUIT
	ELECTRICAL CONDUCTORS FOR LUMINAIRES
	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION INTERNET BIDDING
JOB 100741	LED TRAFFIC SIGNAL HEAD
JOB 100741	LUMINAIRE ASSEMBLY (CUTOFF TYPE)
	SERVICE POINT ASSEMBLY
JOB 100741	STREET NAME SIGN (MAST ARM MOUNTED) SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
	DIFFERENCE FOR ASPHALT CONCRETE HOT WIN ACCEPTANCE TEST RESULTS
	WINES DETECTOR (COLOR)

| DATE | PEDATE | PED

ARKAŅŠAS

REGISTERED PROFESSYONAL CENCINEER,

No.8141

TRAFFIC SIGNAL NOTES

. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2002)NATIONAL ELECTRICAL CODE, NFPA 101(2000) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.

2. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (EGC) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND EGC 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 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 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 WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2c/#12 AWG 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 ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARDS AND DETAILS 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 DETAILS MAY BE USED.
- . TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.
- 10. 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 SPECIAL DETAILS). PAYMENT WILL BE INCLUDED IN SECTION 714, AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- II. ALL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE 3" DIAMETER UNLESS SPECIFIED ON PLANS.
- 12. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.
- 13. LUMINAIRE ASSEMBLIES SHALL BE OF THE FULL CUTOFF TYPE.
- 14. 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.
- 15. 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, 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 21 FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL 6 FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR" AT LOCATIONS SHOWN ON THE SIGNAL PLANS.
- 16. THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS 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.
- 17. 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 IS KEYED INTO COMPETENT ROCK.
- 18. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HANDHOLE 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 POLE WITH FOUNDATION.
- 19. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.
- 20. 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.
- 21. 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.
- 22. 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.

LOCATION: HWY. 49/HWY. 49B/PURCELL RD.

CITY: PARAGOULD

COUNTY: GREENE

DISTRICT: 10 SCALE: 1'=NA'

DRAWN BY: DLT

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DATE: 08/15/11 FILE NAME: t100741_ind.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.	100741	3	25

2 SUMMARY OF QUANTITIES AND REVISIONS

REVISION BOX

DATE	REVISION	SHEET NUMBER



SUMMARY	OF	QUAN	TITIES

ITEM NO.	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF CURB	1010	LIN, F1
202	REMOVAL AND DISPOSAL OF ISLANDS	945	SQ. YD
210	UNCLASSIFIED EXCAVATION	12	CU. YE
309	PORTLAND CEMENT CONCRETE BASE (12" UNIFORM THICKNESS)	329	SQ. YE
SP,SS&407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	34	TON
SP.SS&407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (1/2")	2	TON
601	MOBILIZATION	1.00	L.S.
SS&603	MAINTENANCE OF TRAFFIC	1.00	L.S.
SS&604	SIGNS	224	SQ. F1
SS&604	TRAFFIC DRUMS	113	EACH
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS	7755	LIN. F
632	CONCRETE ISLAND	734	SQ. YE
SP&70I	ACTUATED CONTROLLER TS2-TYPE 2 (8 PHASES)	1 1	EACH
SP&706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, IWAY)		EACH
SP&706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, I WAY)	2	EACH
708	TRAFFIC SIGNAL CABLE (5c/14 A.W.G.)	542	LIN. FT
708	TRAFFIC SIGNAL CABLE (7c/14 A.W.G.)	107	LIN. FT
708	TRAFFIC SIGNAL CABLE (12c/14 A.W.G.)	347	LIN. FT
708	TRAFFIC SIGNAL CABLE (20c/14 A.W.G.)	357	LIN. FT
709	GALVANIZED STEEL CONDUIT (1.25")	15	LIN. F7
710	NON-METALLIC CONDUIT (1.25")	13	LIN. FT
710	NON-METALLIC CONDUIT (2")	56	LIN. F
710	NON-METALLIC CONDUIT (3")	497	LIN. F
SS&7II	CONCRETE PULL BOX (TYPE 2 HD)	6	EACH
SS&7I4	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (28')	1	EACH
SS&7I4	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (32')		EACH
SS&714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (44')	i i	EACH
SS&7I4	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (56')	ì	EACH
SS&7I8	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (10")	647	LIN. F7
SS&718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (10")	187	LIN. FT
SS&719	THERMOPLASTIC PAVEMENT MARKING WHITE (4")	3147	LIN. FT
SS&719	THERMOPLASTIC PAVEMENT MARKING WHITE (8")	1392	LIN. FT
SS&719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")	30	LIN. FT
SS&719	THERMOPLASTIC PAVEMENT MARKING WHITE (24")	48	LIN. F
SS&719	THERMOPLASTIC PAVEMENT MARKING YELLOW (4")	4608	LIN. FT
SS&7I9	THERMOPLASTIC PAVEMENT MARKING YELLOW (8")	335	LIN. FT
SS&719	THERMOPLASTIC PAVEMENT MARKING (WORDS)	2	EACH
SS&719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	2	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	56	EACH
SP&733	VIDEO DETECTOR (CLR)	7	EACH
733	VIDEO CABLE	1092	LIN. F
733	VIDEO MONITOR (CLR)		EACH
SP&733	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	1 4	EACH
SP&733	VEHICLE DETECTOR RACK (12 CHANNEL)		EACH
SP SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2c/6 A.W.G.)	28	LIN. FT
SP SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (Ic/8 A.W.G., EGC)	541	LIN. FT
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (Ic/I2 A.W.G., EGC)	210	LIN. FT
SP SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	864	LIN. F7
SP SP	LUMINAIRE ASSEMBLY	4	EACH
SP SP	18" STREET NAME SIGN	2	EACH
SP SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH

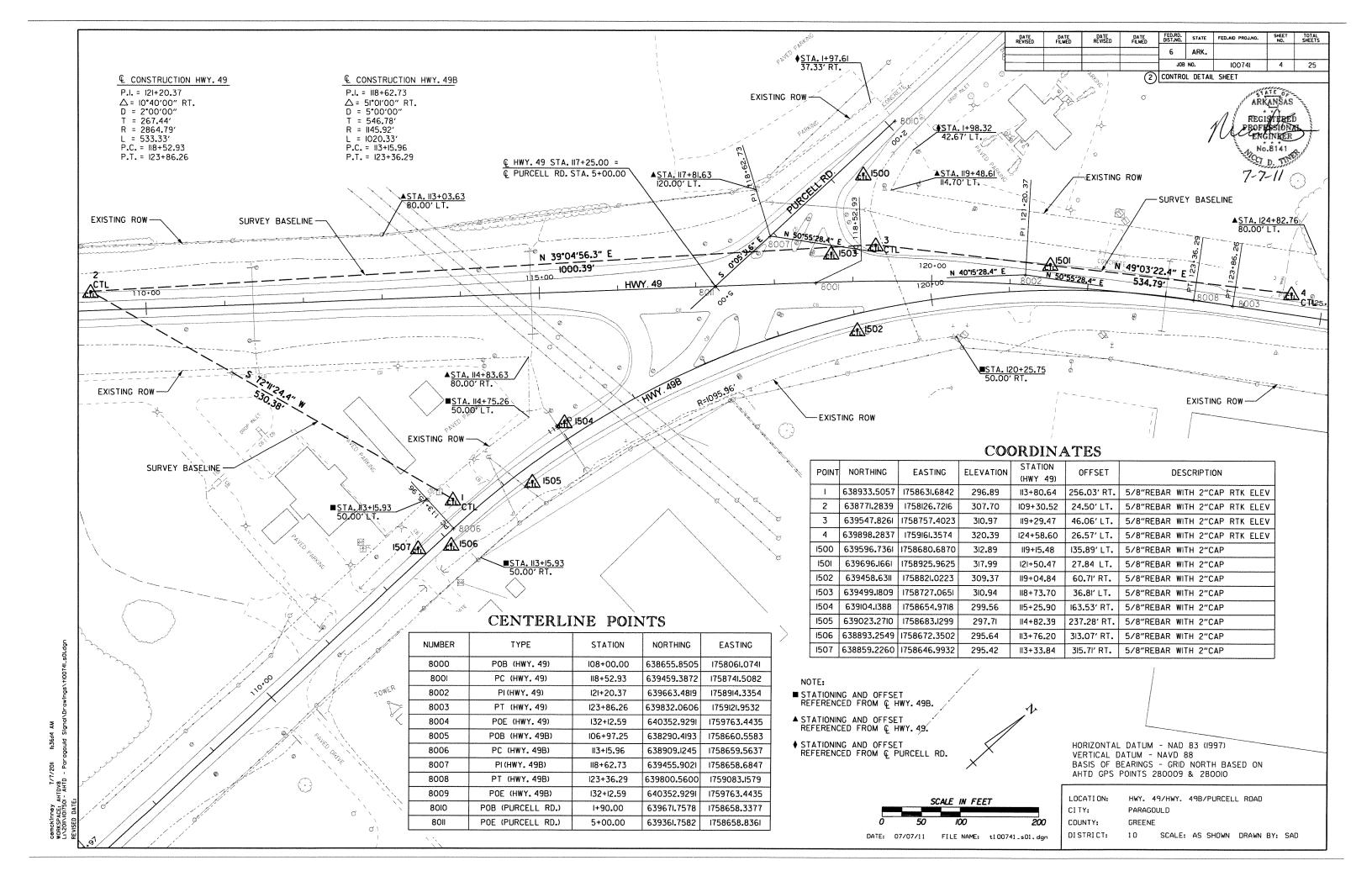
* ONE ADDITIONAL VIDEO DETECTOR AND ONE ADDITIONAL VIDEO PROCESSOR, EDGE CARD PROVIDED FOR FUTURE USE.

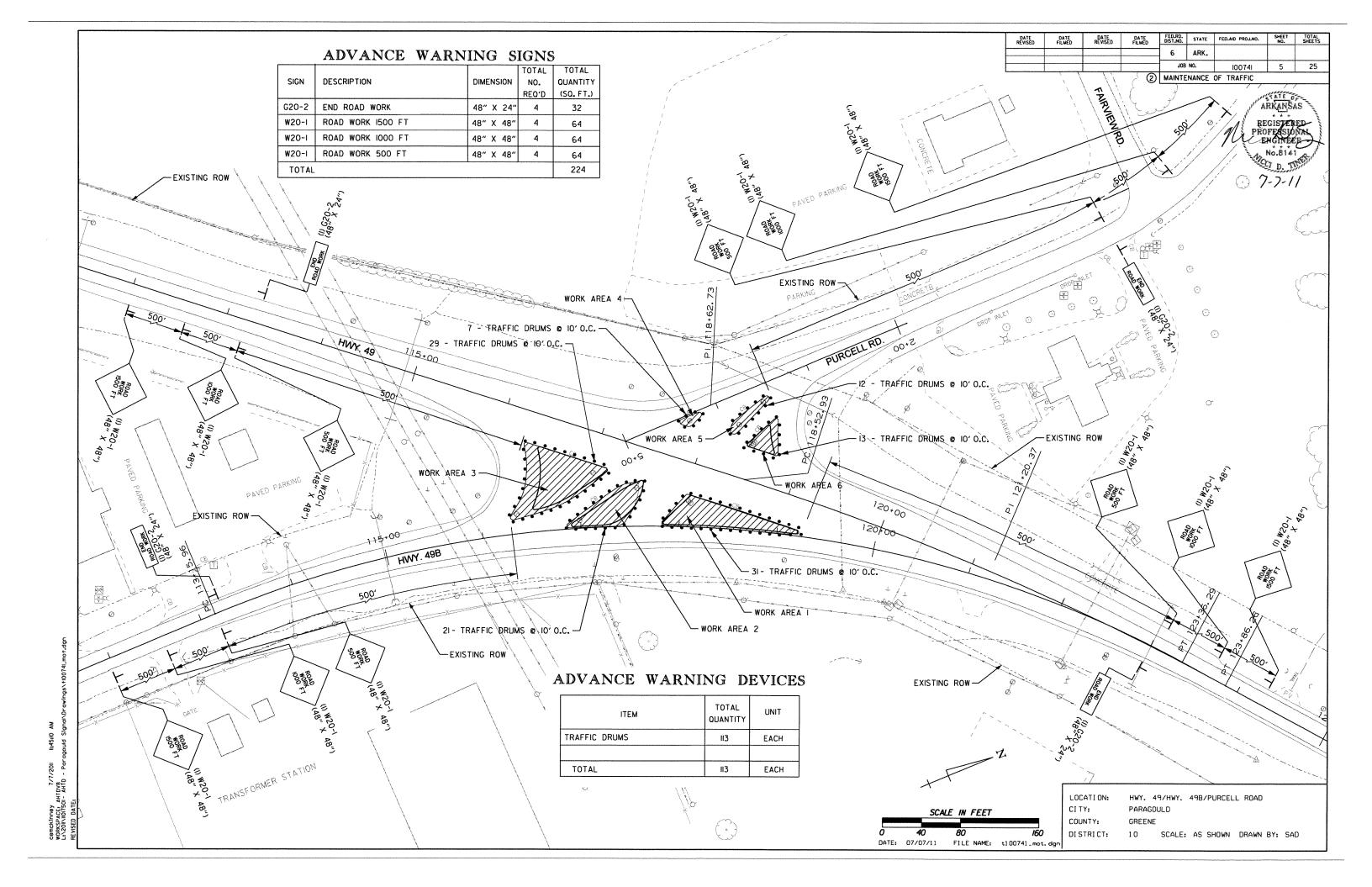
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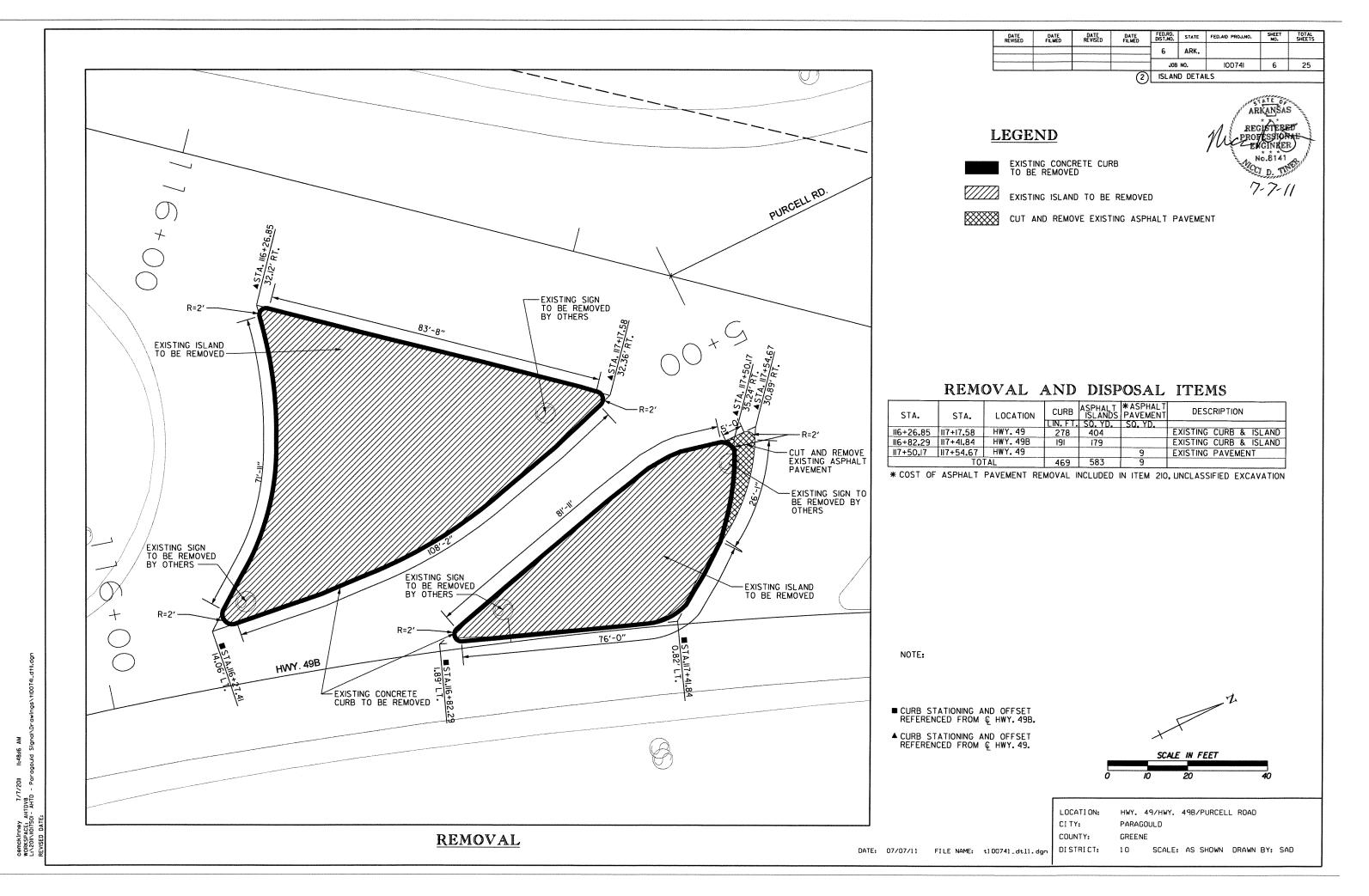
HWY. 49/HWY. 49B/PURCELL ROAD PARAGOULD

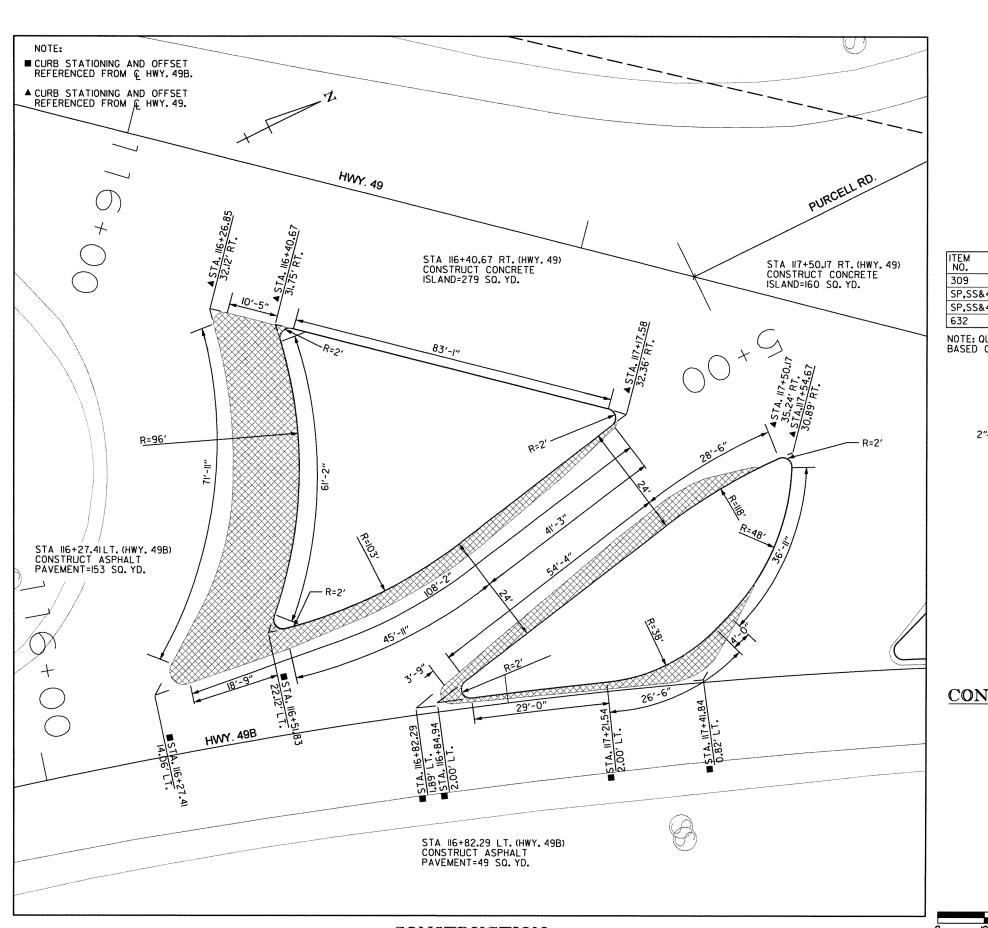
COUNTY: GREENE DISTRICT: 10 SCALE: 1"=NA'

DRAWN BY: dlt









FED.RD. DIST.NO. STATE FED.AID PROJ.NO. SHEET TOTAL NO. SHEETS DATE REVISED DATE DATE REVISED DATE FILMED ARK. 6 JOB NO. 100741 7 25 2 ISLAND DETAILS

LEGEND

CONSTRUCT PROPOSED PAVEMENT



12" PCC BASE REQUIRED UNDER ISLAND

ISLAND QUANTITIES

ARKANSAS

REGISTERED

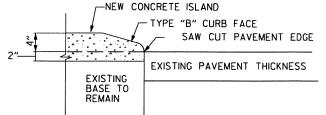
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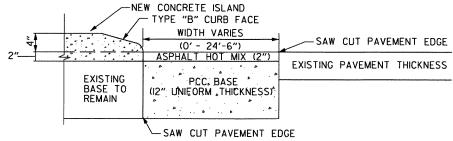
7-7-11

ITEM NO.	ITEM	QUANTITY	UNIT
309	PORTLAND CEMENT CONCRETE BASE (12" UNIFORM THICKNESS)	202	SQ. YD.
SP,SS&407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	21	TON
SP,SS&407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (1/2")	ı	TON
632	CONCRETE ISLAND	439	SQ. YD.

NOTE: QUANTITY OF ASPHALT BINDER AND MINERAL AGGREGATE IN ACHM SURFACE COURSE BASED ON AN ASPHALT BINDER CONTENT OF 5.2% AND MINERAL AGGREGATE CONTENT OF 94.8%.



CONCRETE ISLAND



CONCRETE ISLAND WITH PAVEMENT SECTION

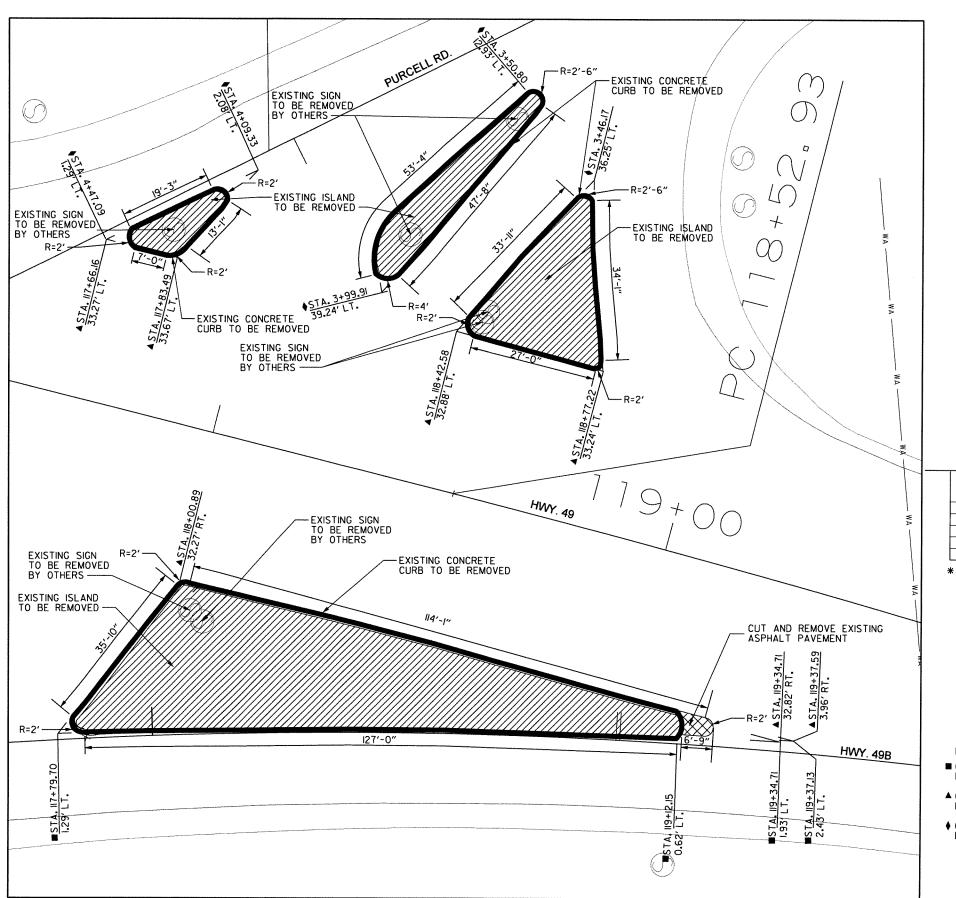
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LOCATION: HWY. 49/HWY. 49B/PURCELL ROAD

CITY: PARAGOULD COUNTY: GREENE

DISTRICT: 10 SCALE: AS SHOWN DRAWN BY: SAD

CONSTRUCTION



LEGEND

EXISTING CONCRETE CURB TO BE REMOVED

EXISTING ISLAND TO BE REMOVED

7-7/1

ARKANSAS

- REGISTERED PROFESSIONAL ENGINEER

CUT AND REMOVE EXISTING ASPHALT PAVEMENT

REMOVAL AND DISPOSAL ITEMS

	STA.	STA.	LOCATION		ASPHALT ISLANDS	*ASPHALT PAVEMENT	DESCRIPTION
ı	118+00.89	110 . 74 71	HWY. 49	LIN. FT.	SU. YD.	SQ. YD.	EVICTING CUIDD A 161 AUG
- 1		119+34.71		281	251	3	EXISTING CURB & ISLAND
	118+45.09	118+77.22	HWY. 49	103	63		EXISTING CURB & ISLAND
	3+50.80	3+97.55	PURCELL RD.	107	34		EXISTING CURB & ISLAND
	4+09.69	4+45.48	PURCELL RD.	50	14		EXISTING CURB & ISLAND
ı		TO.	TAL	541	362	3	

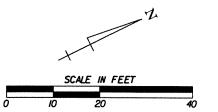
* COST OF ASPHALT PAVEMENT REMOVAL INCLUDED IN ITEM 210, UNCLASSIFIED EXCAVATION

NOTE:

■ CURB STATIONING AND OFFSET REFERENCED FROM © HWY. 49B.

▲ CURB STATIONING AND OFFSET REFERENCED FROM © HWY. 49.

♦ CURB STATIONING AND OFFSET REFERENCED FROM @ PURCELL RD.



LOCATION: HWY. 49/HWY. 49B/PURCELL ROAD

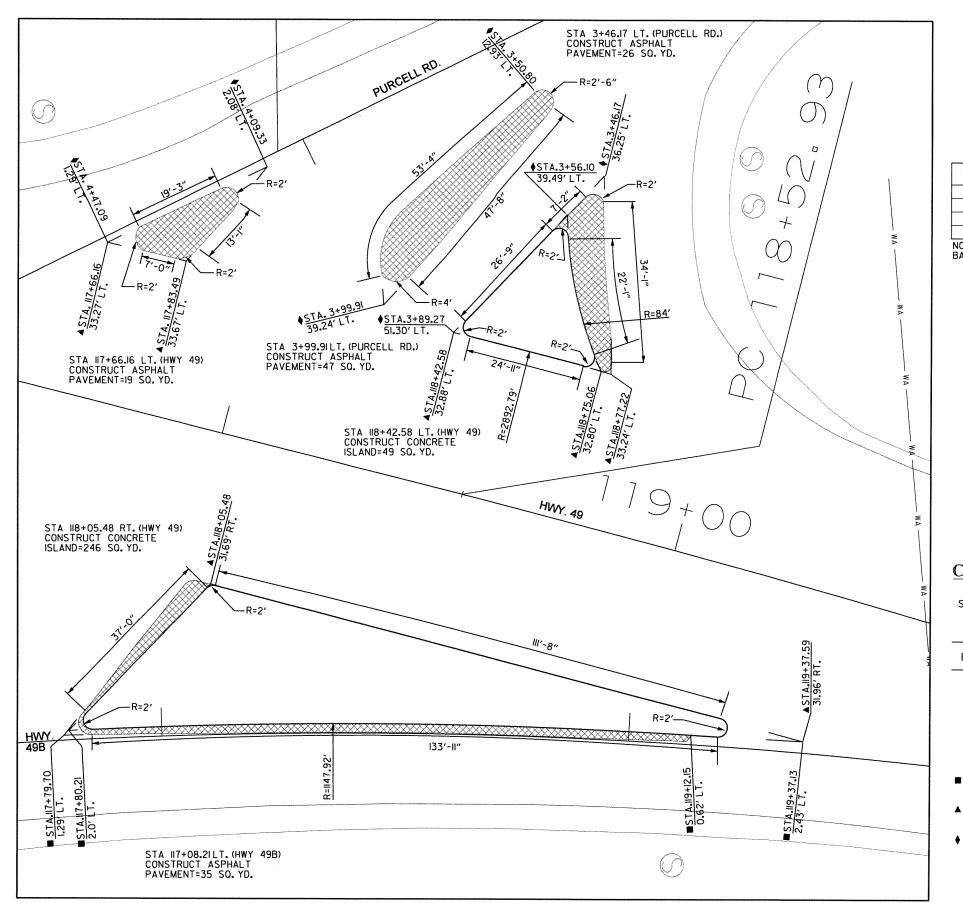
CITY: PARAGOULD COUNTY: GREENE

DISTRICT: 10 SCALE: AS SHOWN DRAWN BY: SAD

REMOVAL

DATE: 07/07/11 FILE NAME: t100741_dt13.dgn

emekinney 777/2011 11:51:15 AM ORKSPACE: AHTOV Peragould Standh Drawings\+10074!



FED.RD. STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS DATE REVISED DATE REVISED DATE DATE 6 JOB NO. 100741 9 (2) ISLAND DETAILS

LEGEND

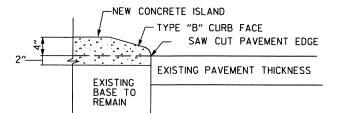
CONSTRUCT PROPOSED PAVEMENT



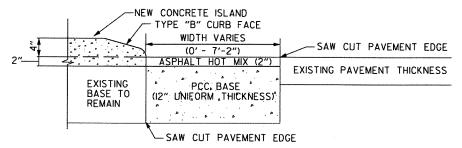
ISLAND QUANTITIES

NO.	ITEM	QUANTITY	UNIT
309	PORTLAND CEMENT CONCRETE BASE (12" UNIFORM THICKNESS)	127	SQ. YD.
407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	13	TON
407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (1/2")	l	TON
632	CONCRETE ISLAND	295	SQ. YD.

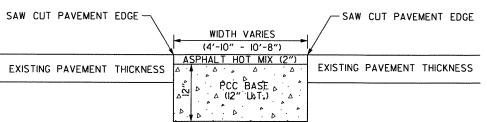
NOTE: QUANTITY OF ASPHALT BINDER AND MINERAL AGGREGATE IN ACHM SURFACE COURSE BASED ON AN ASPHALT BINDER CONTENT OF 5.2% AND MINERAL AGGREGATE CONTENT OF 94.8%.



CONCRETE ISLAND

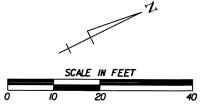


CONCRETE ISLAND WITH PAVEMENT SECTION



PAVEMENT SECTION

- CURB STATIONING AND OFFSET REFERENCED FROM & HWY. 49B.
- ▲ CURB STATIONING AND OFFSET REFERENCED FROM Ç HWY. 49.
- ♦ CURB STATIONING AND OFFSET REFERENCED FROM © PURCELL RD.



LOCATION: HWY. 49/HWY. 49B/PURCELL ROAD PARAGOULD

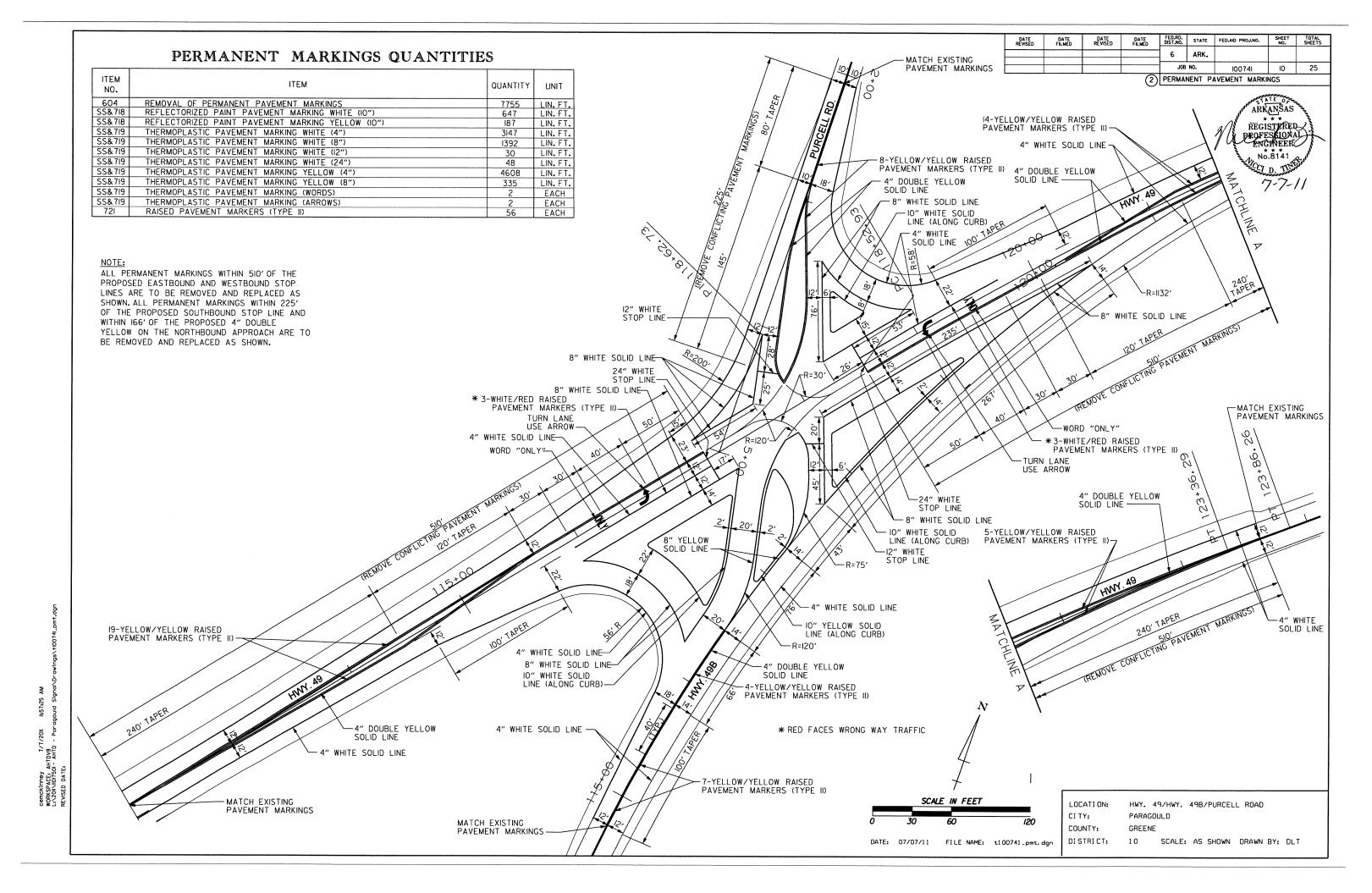
CITY: COUNTY: GREENE

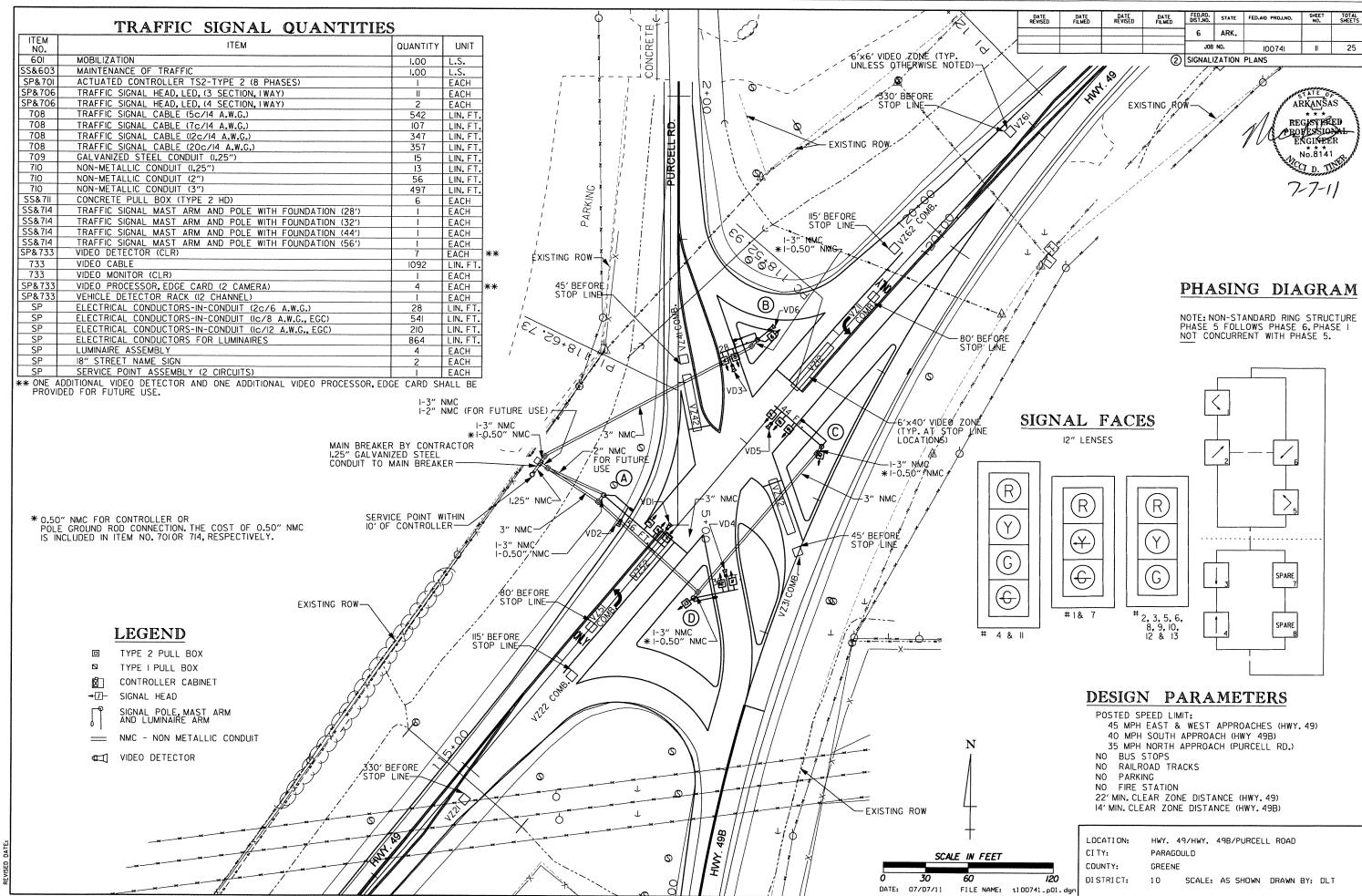
DISTRICT: 10

SCALE: AS SHOWN DRAWN BY: SAD

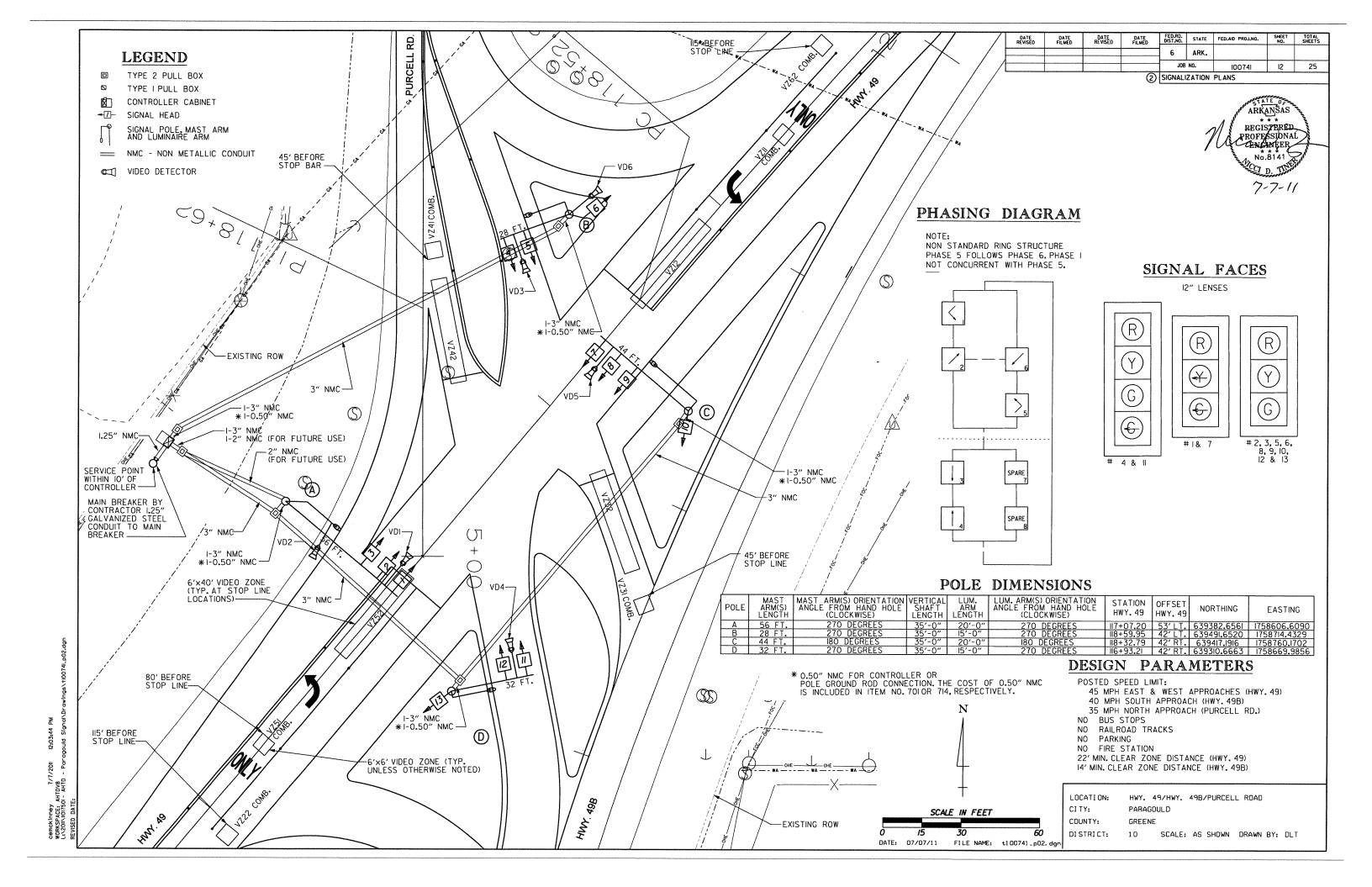
CONSTRUCTION

DATE: 07/07/11 FILE NAME: t100741_dt14.dgn





cemckinney WORKSAACE; AHTUVB Liv201v1017501-AHTD - Paragould Signal\Drawings\+10074



DETECTOR CHART

	DETECTOR ASSIGNMENT:	S		HARD BY	WARE II SUPPL			PROGRAM SIGNMEN		VIDEO	
DETECTOR	DIRECTION & LOCATION	TYPE	DET.	CAB. TRM.	AMP CHN. #	CON. INP. #	LO PHS.	CAL SYS. DET.#	MSTR. SYS. DET.#	DET. TUBE LENGTH	COMMENT
VZII	WB LEFT FAR	сомв.			ı	Di	1	1		23"	VDI
VZI2	WB LEFT NEAR	LOCAL			2	VI	Ī			23"	VDI
VZ2I	EB FAR	LOCAL			5	V2	2			23"	VD2
VZ22	EB NEAR	COMB.			6	D2	2	2		23"	VD5
VZ3I	NB FAR	сомв.			9	D3	3	3		23"	VD3
VZ32	NB NEAR	LOCAL			10	٧3	3			23"	VD3
VZ4I	SB FAR	сомв.			11	D4	4	4		23"	VD4
VZ42	SB NEAR	LOCAL			12	٧4	4			23"	VD4
VZ5I	EB LEFT FAR	сомв.			7	D5	5	5		23"	VD5
VZ52	EB LEFT NEAR	LOCAL			8	V5	5			23"	VD5
VZ6I	WB FAR	LOCAL			3	٧6	6			23"	VD6
VZ62	WB NEAR	сомв.			Δ	D6	6	6		23"	VDI

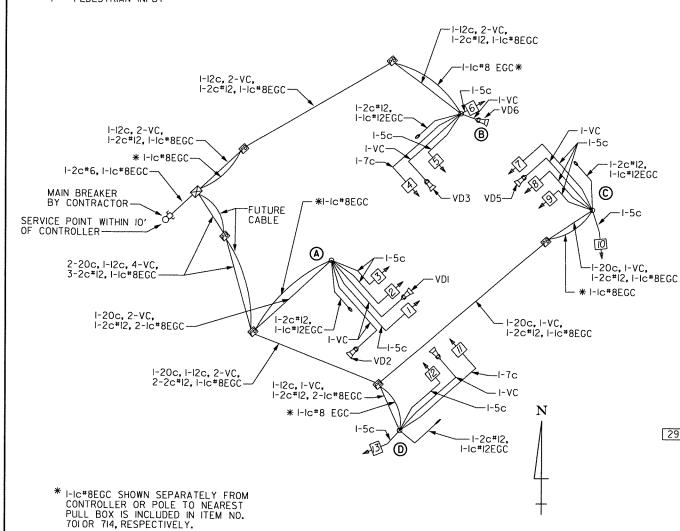
CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

SPARE AMP CHN. #= NONE

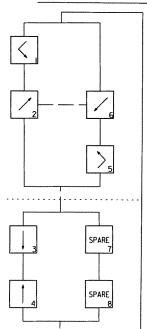


WIRING DIAGRAM

TYPICAL WIRING INCLUDES:

- SEPARATE 5c/#14 AWG FROM EACH 3 SEC SIGNAL HEAD TO BASE OF POLE. SEPARATE 7c/#14 AWG FROM EACH 4 SEC SIGNAL HEAD TO BASE OF POLE.
- ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA ON CABINET.
- 4. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.

PHASING DIAGRAM



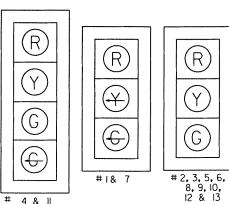
NOTE: NON STANDARD RING STRUCTURE PHASE 5 FOLLOWS PHASE 6. PHASE I NOT CONCURRENT WITH PHASE 5.

Ī	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
ļ					6	ARK.			
t					JOB	NO.	100741	13	25

(2) SIGNALIZATION PLANS

SIGNAL FACES

12" LENSES

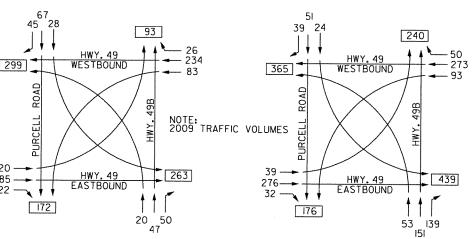


REGISTERED PROFESSIONAL ENGINEER No.8141

INTERVAL CHART

FACES I+6 CLR. 2+6 CLR. 2+5 CLR. 3 CLR. 4 CLR. SEC I -6 -4 R												
FACES I+6 CLR. 2+6 CLR. 2+5 CLR. 3 CLR. 4 CLR. SEC I ◆ ★ R					INTERS	SECTIO	N INTER	RVALS				FLASH
2 & 3 G *** G *** R R R R R R Y 4 R R R R R R R R G Y R R R 5 R R R R R R R G Y R R R 6 G *** G *** R R R R R R R R 7 R R R R R R R R R R	FACES	1+6	CLR.	2+6	CLR.	2+5	CLR.	3	CLR.	4	CLR.	SEQ.
4 R R R R R R R G Y R R R G G Y R R R G G G G	I	€	*	R	R	R	R	R	R	R	R	R
5 R R R R R R R G Y R R R G G G G G G G G	2 & 3	G	**	G	* *	R	R	R	R	R	R	Y
6 G *** G *** R R R R R R Y 7 R R R R R &	4	R	R	R	R	R	R	G	Y	R	R	R
7 R R R R C ** R R R R R R R R R R R R R R R R R R	5	R	R	R	R	R	R	G	Y	R	R	R
8 & 9 R R G ** G ** R R R R Y 10 R R R R R R R R R R R 11 R R R R R R R	6	G	* *	G	* *	R	R	R	R	R	R	Y
10 R R R R R G Y R R R R R R R R R	7	R	R	R	R	-6-	*	R	R	R	R	R
	8 & 9	R	R	G	* *	G	* *	R	R	R	R	Y
12 R R R R R R R G Y R	10	R	R	R	R	R	R	G	Y	R	R	R
	11	R	R	R	R	R	R	R	R	G &	Y	R
13 R R G ** G ** R R R Y	12	R	R	R	R	R	R	R	R	G	Y	R
	13	R	R	G	* *	G	* *	R	R	R	R	Y

** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE

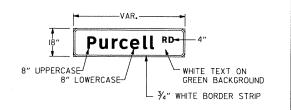


HWY. 49/HWY. 49B/PURCELL ROAD TRAFFIC FLOW DIAGRAM TRAFFIC VOLUME A.M. PEAK HOUR

HWY. 49/HWY. 49B/PURCELL ROAD TRAFFIC FLOW DIAGRAM TRAFFIC VOLUME P.M. PEAK HOUR

DATE: 07/07/11 FILE NAME: t100741_p01.dgn

TYPICAL OVERHEAD STREET NAME MARKER MAST ARM MOUNTED



I. REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR TYPE 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.

2. ALUMINUM SIGN BLANK SHALL BE ALLOY 606I-T6 OR 5052-H38.
THE ALUMINUM SIGN SHALL ALSO BE ANDDIZED. 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

3. SEE STD. DETAIL SHEET FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.

- 4. THE CLEARVIEW 5-W-R FONT SHALL BE USED FOR ALL LETTERS.
- 5. STREET NAME "PURCELL RD." ON POLES A AND C.

LOCATION: HWY. 49/HWY. 49B/PURCELL ROAD CITY: PARAGOULD

COUNTY: GREENE

DISTRICT: 10 SCALE: 1" = NA' DRAWN BY:

DLT

NOTES, PED AND TRAFFIC SIGNAL HEAD SIGNS:

USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (R10-10) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12' TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE R10-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON. ALL SIGN FACES SHALL BE CONSTRUCTED OF HIGH INTENSITY SHEETING (TYPE III) WITH SILKSCREEN LEGEND AND BORDER.

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209. ALLOY 5052-H38) WITH THICKNESS OF 0, 100 INCH.

GENERAL NOTES:

MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF 4 FT. BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS
OF THE PLANS AND SPECIFICATIONS CAN BE INSTALLED IN LIEU OF
ROUND. ALL POLES AND ARMS IN A JOB MUST BE THE SAME SHAPE.

MINIMUM STRUCTURAL REQUIREMENTS: DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006

USE FATIGUE CATEGORY I FOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN ARM 60' OR LONGER.

USE FATIGUE CATEGORY II FOR STRUCTURES ON ROUTES WITH A SPEED LIMIT LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH ARMS LESS THAN 60' AND ROUTES WITH SPEED LIMITS OF 45 MPH AND LESS WITH AN ARM 60' OR LONGER.

USE FATIGUE CATEGORY III FOR ALL STRUCTURES WHERE SPEED LIMIT IS 45 MPH AND LESS AND ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2003 EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH.

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN 1/2' SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD! AS A MINIMUM, DESIGN SHALL BE BASED ON THE FIXED ATTACHMENTS SHOWN BELOW OR AS MODIFIED IN THE PLANS.

ALL SIGNAL HEADS TO BE ONE WAY, 12 INCH. AND HAVE 5

HEADS AT END OF ARM ONE 4 SEC., 85 LB., 16.0 SQ. FT. ONE SIGN MOUNTED 3 FT. FROM SIGNAL * 2' X 0' X 2' * 6': 20 LB. REMAINING HEADS SPACED A 8 FT. * 3 SEC. 56 LB. TWO 5 SEC): 14.4 SQ. FT. DESIGN TO ACCOMMODATE (INCLUDING

2 HEADS FOR ARMS 10 TO 16 FT.

2 HEADS FOR ARMS 10 TO 16 FT.; INCLUDING LB. 3 HEADS FOR 18 TO 24 FT. ARMS: 4 HEADS FOR OVER 26 FT. ARMS.

STREET NAME SIGN -- 72" X 18", 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAN 12 FT. FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT ROADWAY LUMINAIRES (WHERE REQUIRED ON PLAN SHEET) * VARIABLE ARM LENGTH (MAX.), 3.3 SQ. FT.. 75 LB. PED SIGNALS -- TWO 2 SEC. 12 INCH MOUNTED 8 FT. FROM BASE OF POLE POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE

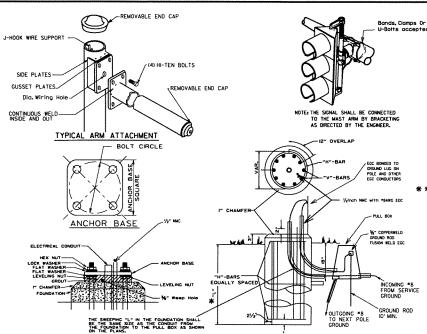
4. POLE/MAST ARM CAP -- POLE AND MAST ARMS CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST ALLM INUM.

HAND HOLE -- HAND HOLES SHALL BE 4 X 6 INCHES FOR STANDARD, AND 3 X 5 INCHES FOR PED POLES, MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACUUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL. POLES GREATER THAN 21 FT. IN HEIGHT (FOR ROADWAY LUMINAIRE ATTACHMENT) SHALL INCLUDE A HAND HOLD WITHIN 12 INCHES OF MAST ARM(S) ATTACHMENT(S).

6. POLE/MAST ARM TAPER AND SLOPE - AVERAGE TAPER OF SIGNAL ARMS AND POLE SHALL BE 0.125 TO 0.15 INCHES

MAST ARM CENTERLINE ANGLE AT ATTACHMENT POINT WITH POLE SHALL MAINTAIN NOT LESS THAN 0.5 DEGREES OR MORE THAN 4 DEGREES
POSITIVE SLOPE WITH A LINE PERPENDICULAR TO THE POLE CENTERLINE. THE ARM SHALL MAINTAIN A POSITIVE AFTER IT IS PLACED UNDER LOAD.

NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT COVER FOR EACH ANCHOR BOLT.

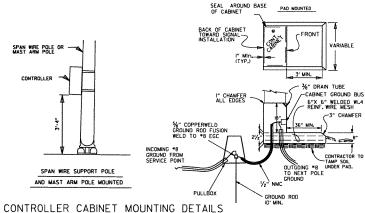


THE GROUND ROD SHALL BE FUSION WELDED TO A IC/*8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP. THE ROD IS TO BE LOCATED IN THE CONCRETE PULL BOX.

TYPICAL FOUNDATION DETAILS

POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING, ALL REINFORCING STEEL SHALL BE GRADE 40 MIN.

ARM	FUN.	DEPTH	ST	EEL	
LENGTH	DIAMETER	"L" *	VERT.	HORZ.	D/C.
PED	30*	7' ~0"	12-#7 (6'-6")	10-#4	8. 44*
2' to 12'	30"	10' -6"	12-#7 (10'-0")	15-#4	8. 42*
over 12' to 20'	30*	11'-6"	12-#7 (11'-0")	16-#4	8.66*
over 20' to 35'	36*	12' -6"	13-#8 (12'-0")	17-#4	8. 88*
over 35′ to 50′	36*	13' -6"	13-#8 (13'-0")	19-#4	8. 56*
over 50' to 72'	42"	14'-6"	18-#8 (14'-0")	20-#4	8, 74*
Twins to 20'	30"	16'-0"	12-#6 (15′-6*)	22-#4	8. 76'
Twins over 20' to 44'	36"	16'-0"	13-#8 (15′-6*)	22-#4	8, 76'
Twins over 44' to 50'	42"	16'-0"	18-*8 (15'-6")	22-#4	8. 76*
Twins over 50' to 72'	42"	16' -6"	18-#8 (16'-0")	23-#4	8, 64"



UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CABINET ORIENTATION SHALL BE

SUCH THAT THE BACK OF THE CABINET IS PARALLEL TO THE STREET AND POSITIONED TO ALLOW VISIBILITY OF THE SIGNAL DISPLAY WHILE OBSERVING THE CONTROLLER FRONT PANEL.

GROUND ROD - A 10' X 5/8" GROUND ROD SHALL BE INSTALLED IN THE PULL BOX FOR EACH POLE AND THE CONTROLLER.
PAYMENT FOR THE GROUND ROD AND 1/2 NMC SHALL BE INCLUDED IN ITEM 714 FOR SIGNAL POLES AND ITEM 701 FOR THE CONTROLLER, THE PULL BOX AND CONDUCTOR BOX SHALL BE PAID FOR SEPARATELY.

POLE BASE/FOUNDATION - ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX. NUT. PERIMETER OF ANCHOR BASE SHALL BE GROUTED WITH A 1/4" WEEP HOLE. ALL CONCRETE SHALL BE CLASS 'S' OR

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER, SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY, EXCEPT FRIDAY.

THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD, AT THE TIME INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATIONS IN FLASH SEQUENCE.

DATE REVISED DATE DATE REVISED DATE FILMED FED.RD. STATE SHEET NO. TOTAL 6 ARK. JOB NO. 100741 25 14

ARKANSAS

REGISTERED

PROFESSIONAL ENGINEER No.8141

CCI D. TOTAL

24" MIN. POLE TO ANTENNA

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(2) SIGNALIZATION DETAIL SPECIAL NOTE: 90 MPH WIND ZONE DESIGN, SEE

* WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE ROADWAY ELEVATION, THE LENGTH OF FOUNDATION ABOVE THE GROUND MAY BE NCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE ROADWAY, WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DEPTH "L" WILL BE REQUIRED, WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 5'-6" OR LESS, INCREASE DEPTH "L" BY 1'-0". FOR LENGTHS GREATER THAN 5'-6", DEPTH "L" SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, LONGITUDINAL REINFORCING, AS SHOWN IN THE TABLE, SHALL BE PROVIDED FOR THE EXTENDED SHAFT AND "A TIES S

* * IN LIEU OF DESIGNING THE STRUCTURE TO RESIST PERIODIC GALLOPING, A VIBRATORY MITIGATION DEVICE MAY BE PROVIDED BY THE POLE MANUFACTURER. THE VIBRATORY MITIGATION DEVICE SHALL BE AN ANTI-GALLOPING PANEL CONSISTING OF A 60°X16" XO.125" SIGN BLANK MOUNTED NEAR THE END OF THE MAST ARM NOT TO EXCEED ONE QUARTER OF THE LENGTH OF THE MAST ARM FROM THE END OF THE MAST ARM WITH THE LONG AXIS OF THE PANEL COLLINEAR WITH THE LONG AXIS OF THE MAST ARM. THE PANEL SHOULD BE MOUNTED AT SUCH A HEIGHT AS TO PROVIDE AT LEAST OF CLEAR FROM THE TOP OF ANY SIGNAL ASSEMBLY OR SIGN PANEL LOCATED ON THE MAST ARM WITHIN THE LENGTH OF THE ANTI-GALLOPING PANEL.

TRUCK-INDUCED GUST LOADS SHALL BE EXCLUDED FOR FATIGUE DESIGN FOR ALL STRUCTURES EXCEPT MAST ARMS MOUNTED OVER FACILITIES WITH POSTED SPEEDS OF 65 MPH OR GREATER AT THE LOCATION OF THE STRUCTURE.

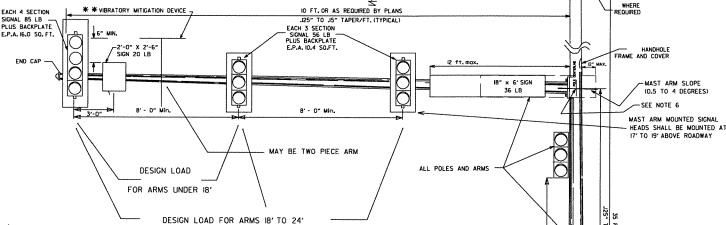
VIBRATORY MITIGATION DEVICE

~2'-0" X 2'-6" SIGN 20 LE

FOR 2" SLIP-FIT LUMINAIRE BY OTHERS, MAX. WT. 75 LB ---2.3" O.D. 3.3 S.F. VARIABLE LENGTH .125" TO .15" TAPER/FT-ARM ATTACHMEN

8' - 0" Min

NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.



LEFT

TURN

SIGNAL

RIO-10

4-18-08 REVISED AASHTO NOTES

6-23-04 REVISED

DATE

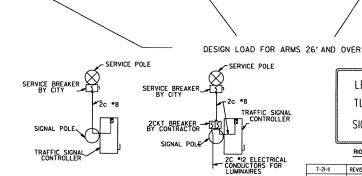
4-25-08 ADDED VIBRATORY MITIGATION DEVICE & NOTES

4-17-08 REVISED TO 2001 AASHTO STANDARDS

5-II-04 REV. NOTE 3/AASHTO REQUIREMENTS

6-8-01 REV. NOTES & POLE MAST ARM SLOPE

10-12-04 REVISED CABINET ORIENTATION



SERVICE POLE -2c #8 TRAFFIC SIGNAL
CONTROLLER WITH LUMINAIRE NO LUMINAIRE SERVICE DISCONNECT

CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS SHALL BE CLASS "S" OR GREATER.

PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S). FURNISHING AND INSTALLING PED PUSH SWITCH SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM PEDESTRIAN SIGNAL HEAD.



SIGNAL BO LB

E.P.A. 8.0 SQ.FT.

PEDESTRIAN SIGNAL HEADS

FRAME AND COVER

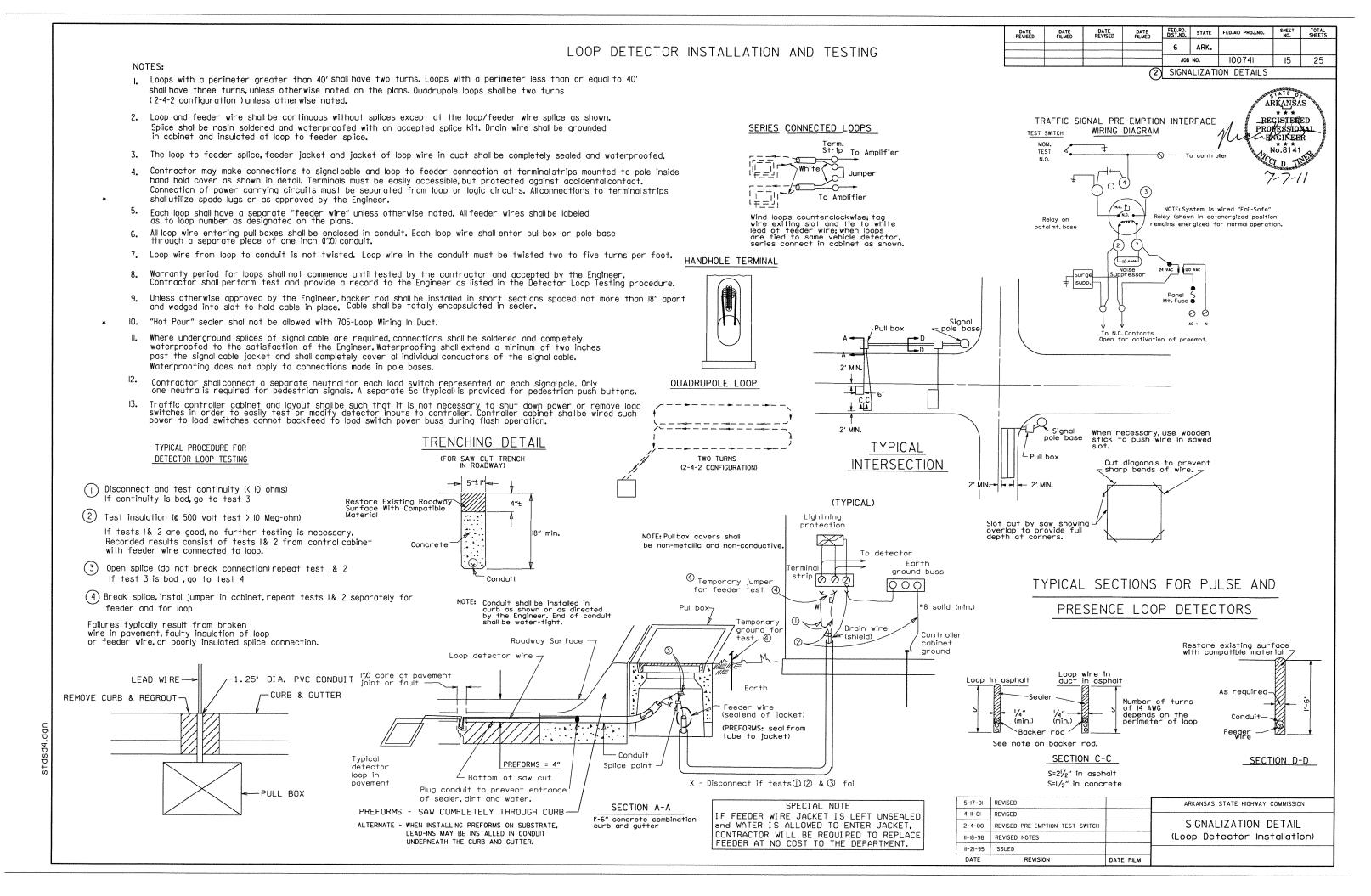
PEDESTRIAN SIGNAL HEAD

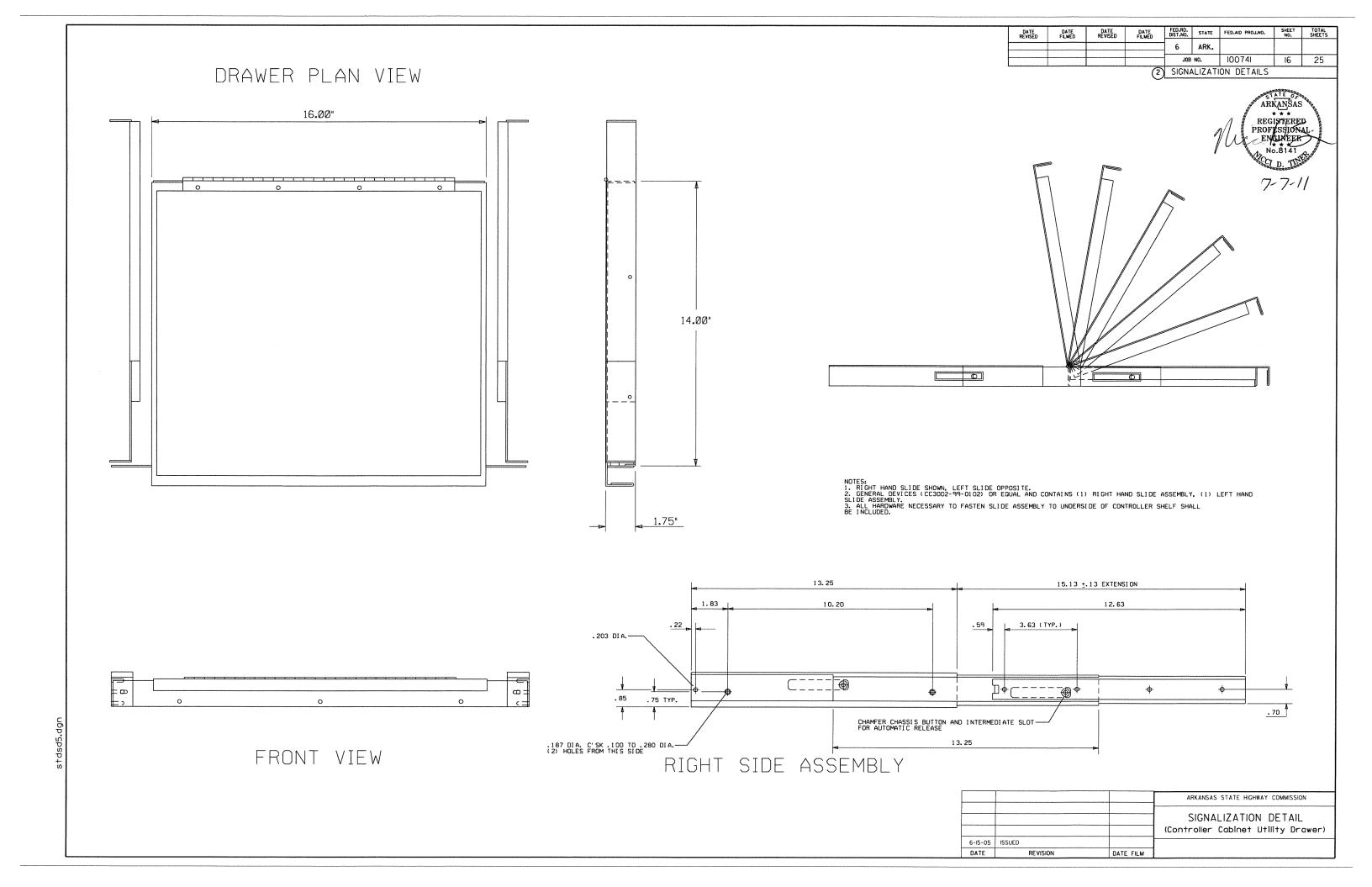
ARKANSAS STATE HIGHWAY COMMISSION SIGNALIZATION DETAILS

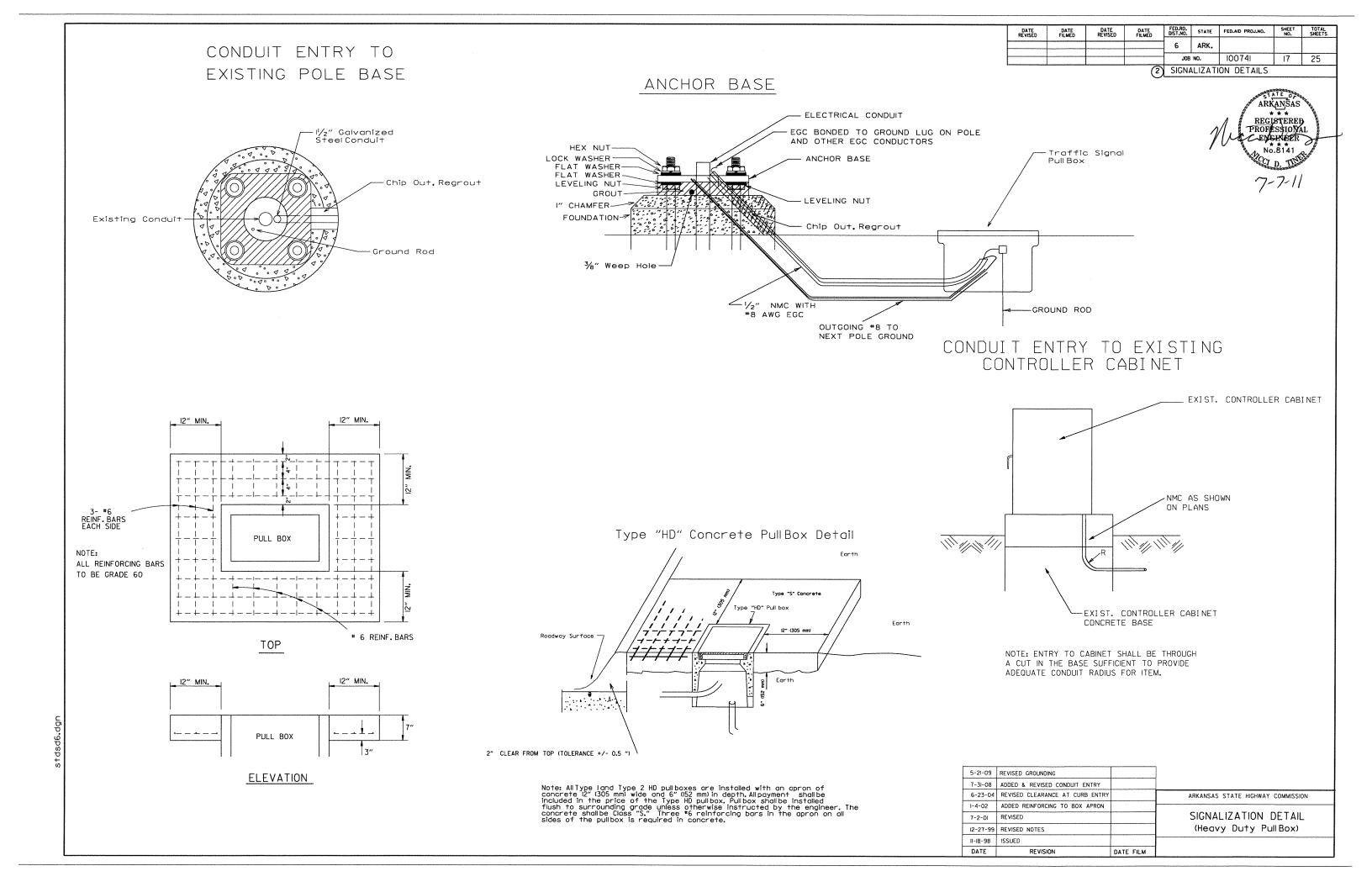
WALK

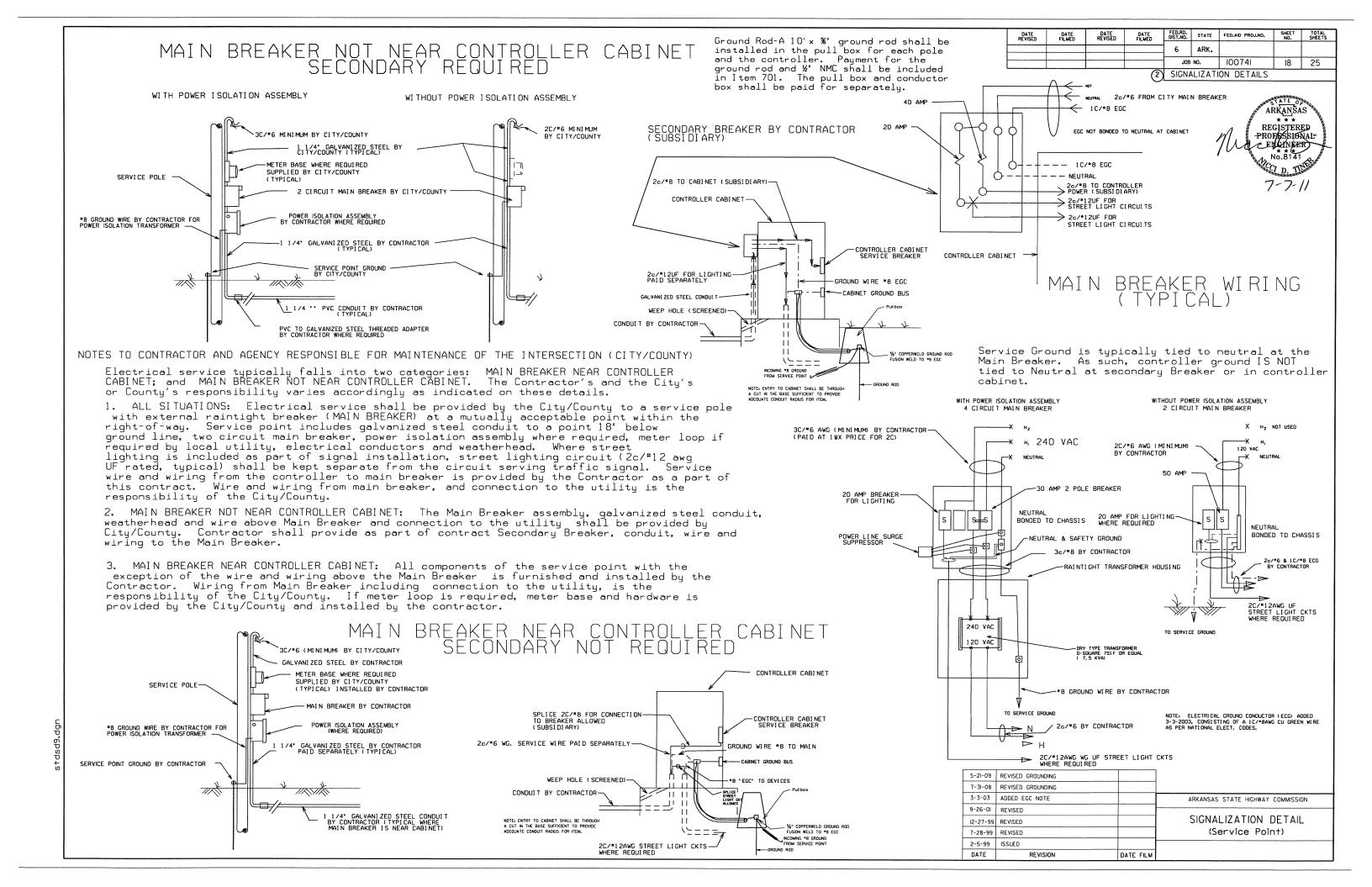
4-8-01 REVISED POLE TAPERS 4-25-00 REV. NOTES & SIGNAL HEAD PLACEMEN II-22-99 REVISED FOUNDATION DETAILS (Steel Pole With Mast Arm) II-17-98 REVISED DETAILS AND NOTES
II-21-95 ISSUED

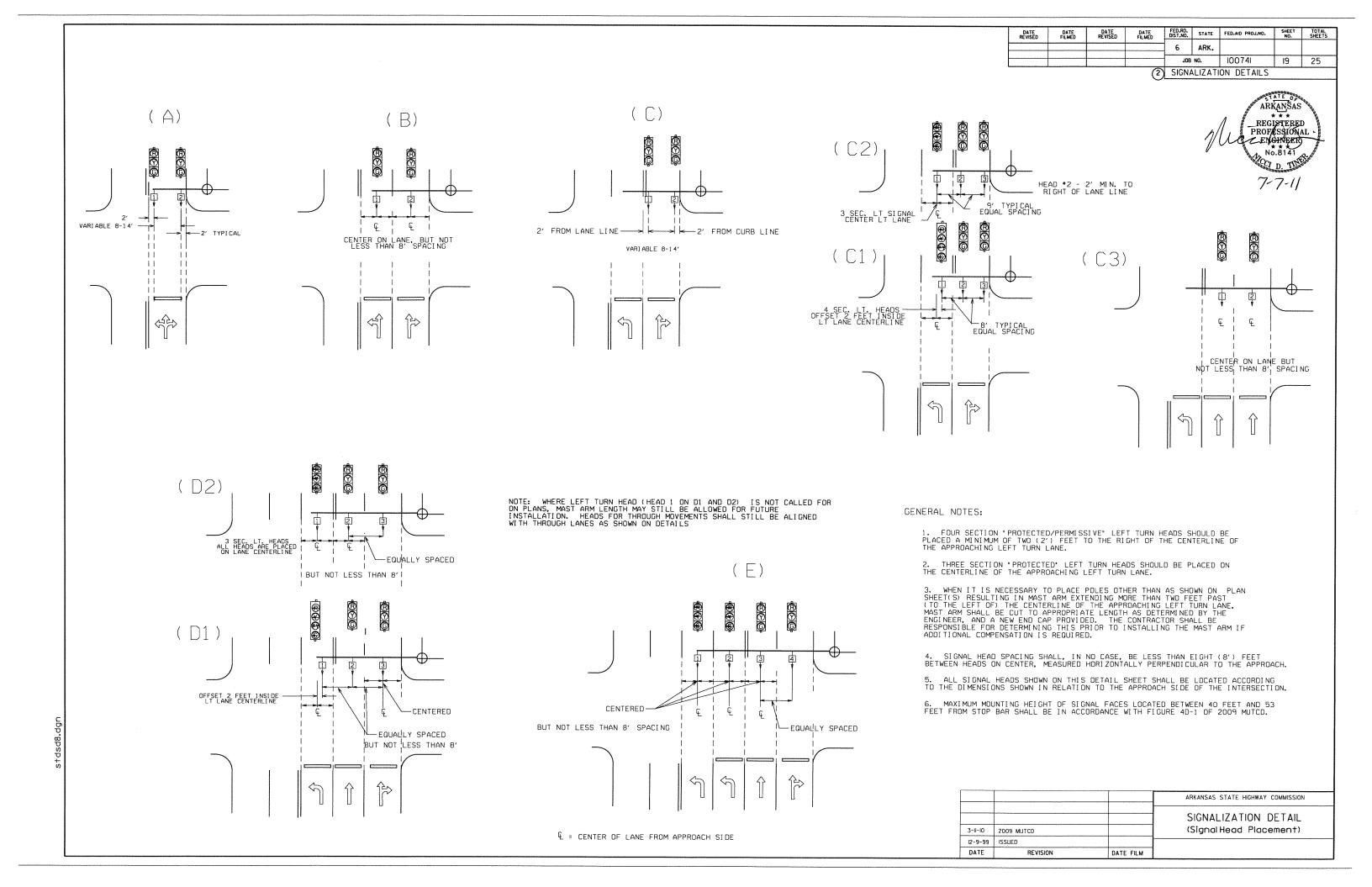
OF POLE.

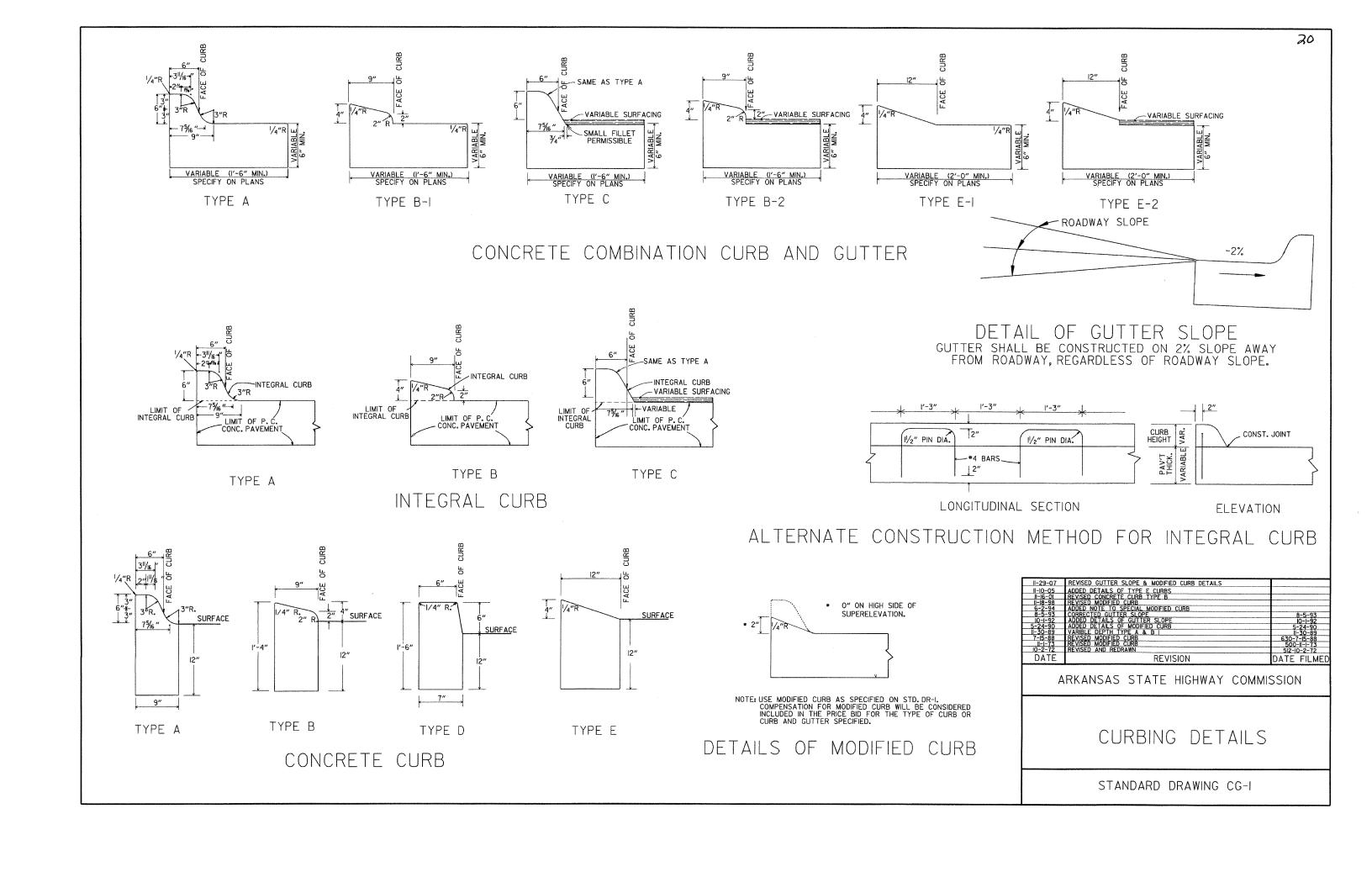


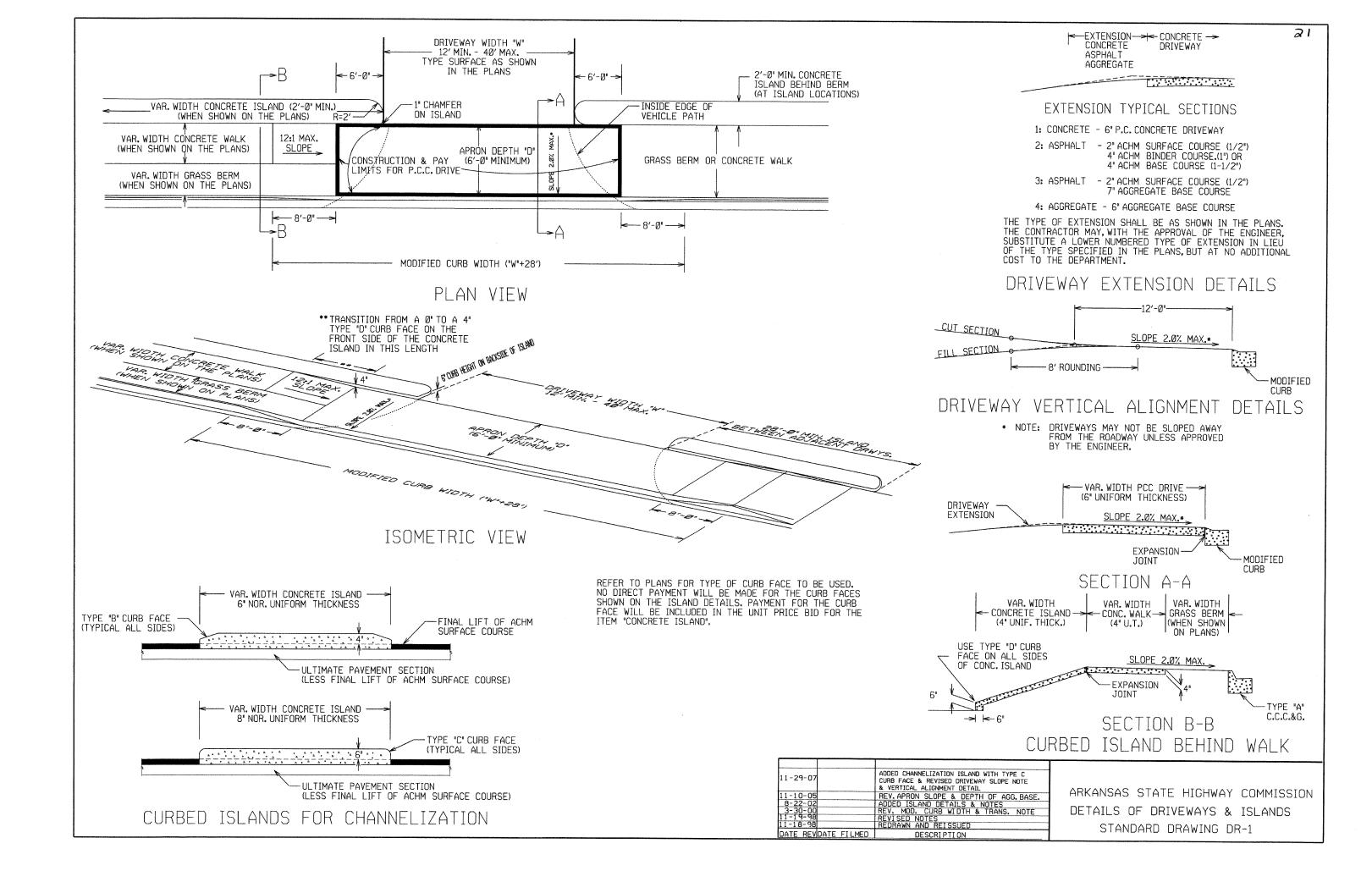






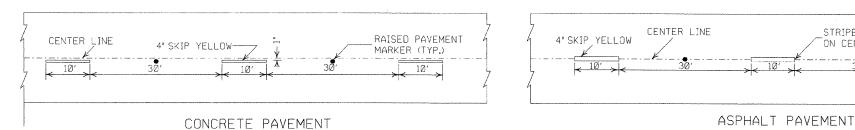




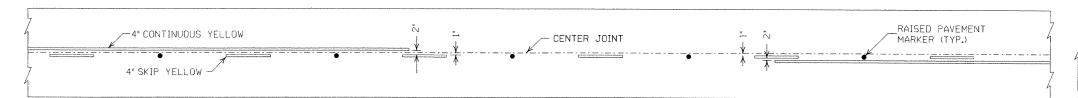


STRIPE TO BE PAINTED

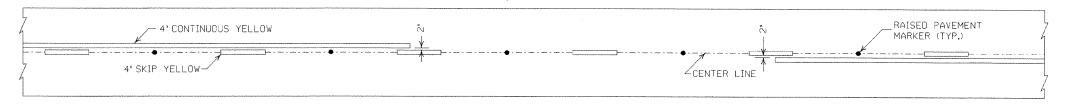
ON CENTER LINE.



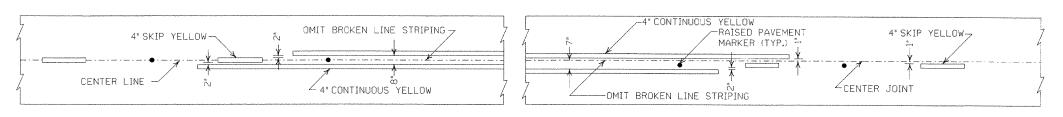
BROKEN LINE STRIPING



SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT



ASPHALT PAVEMENT

CONCRETE PAVEMENT

GENERAL NOTES:

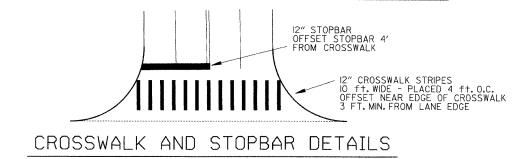
THIS DRAWING SHOULD BE CONSIDERED AS TYPICAL ONLY AND THE FINAL LOCATION OF THE STRIPING AND RAISED PAVEMENT MARKERS SHALL BE DETERMINED BY THE FIGURETS.

THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION.

NOTE:

DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE AHTD OUALIFIED PRODUCTS LIST.

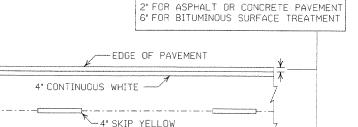
STRIPING AT ADJACENT NO PASSING LANES



11-17-10	REVISED GENERAL NOTES &		
	REMOVED PLOWABLE PVMT MRKRS		
11-18-04	REVISED NOTE 2 & GENERAL		
	NOTES		
8-22-02	ADDED CROSSWALK &		
	STURBAN UILS.		
7-02-98	ADDED DETAILS OF STD.		
	RAISED PAV'T. MARKERS		
4-26-96	REV. NOTES 3&4; ADDED R.P.M.		
9-30-80	DRAWN	1-9-30-80	
DATE	REVISION	FILMED	

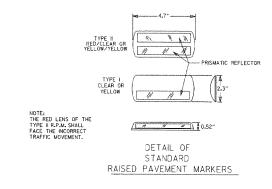
1. ALL LINES SHALL HAVE A WIDTH OF 4 INCHES.

- 2. THE THICKNESS AND RATE OF PAINT APPLICATION SHALL BE AS SPECIFIED IN SECTION 718 OF THE STANDARD SPECIFICATIONS.
- 3. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- 4. RAISED PAVEMENT MARKERS SHALL BE CENTERED BETWEEN SKIP LINES ON 40 FEET SPACING UNLESS OTHERWISE SHOWN ON THE PLANS.



PAVEMENT EDGE LINE MARKING

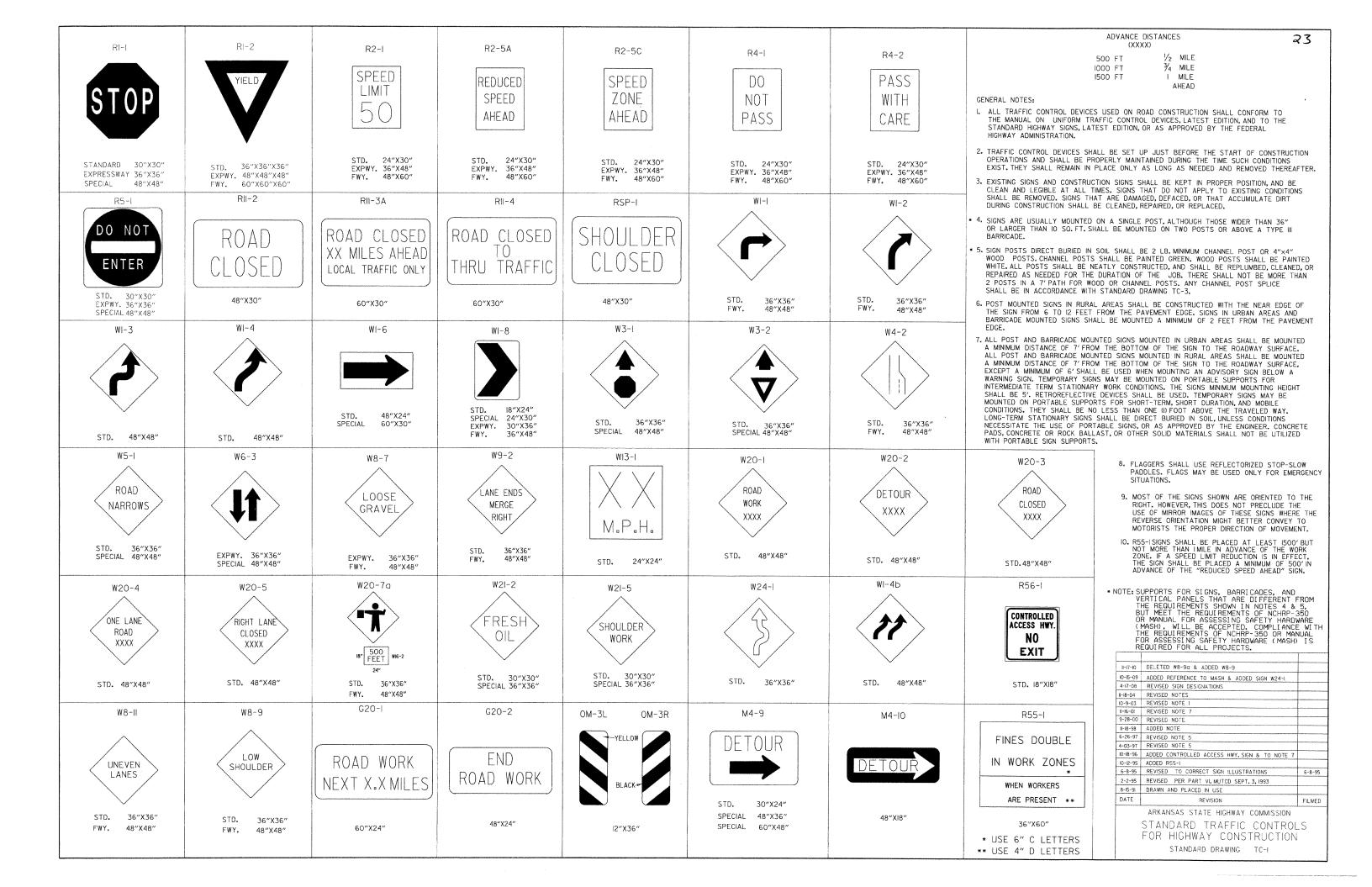
STRIPE 4" CONTINUOUS WHITE-



ARKANSAS STATE HIGHWAY COMMISSION

PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1



4-26-96 CORRECTED (a) BEHIND G20-2

CORRECTED SIGN (DENT. ON WI-4A

2-2-95 REVISED PER PART VI, MUTCO, SEPT. 3, 1993

STANDARD DRAWING TC-2

REVISION

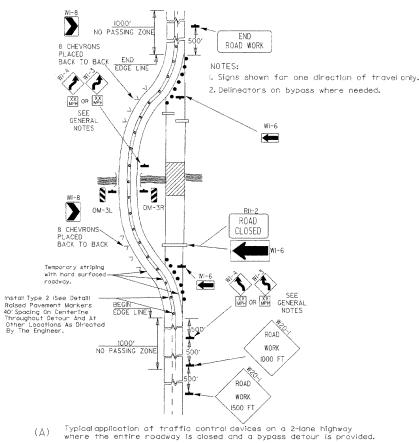
ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

DRAWN AND PLACED IN USE

6-8-95

6-8-95

8-15-91



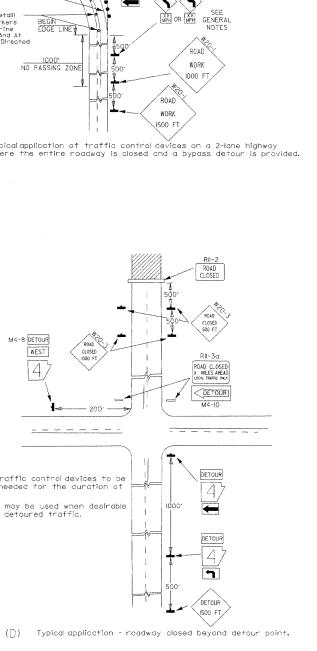
M4-8 DETOUR

Regulatory traffic control devices to be modified as needed for the duration of

2. Street names may be used when desirable

for directing defoured traffic.

the detour.



Channelizing devices are to be extended to a point where they are visible to approaching traffic.

WORK

(E) Typical application of traffic control devices on 2-lane highway where one lane is closed and flagging is provided.

4. Automated Flagger Assistance Device (AFAD) optional. Refer to MUTCD.

RII-30

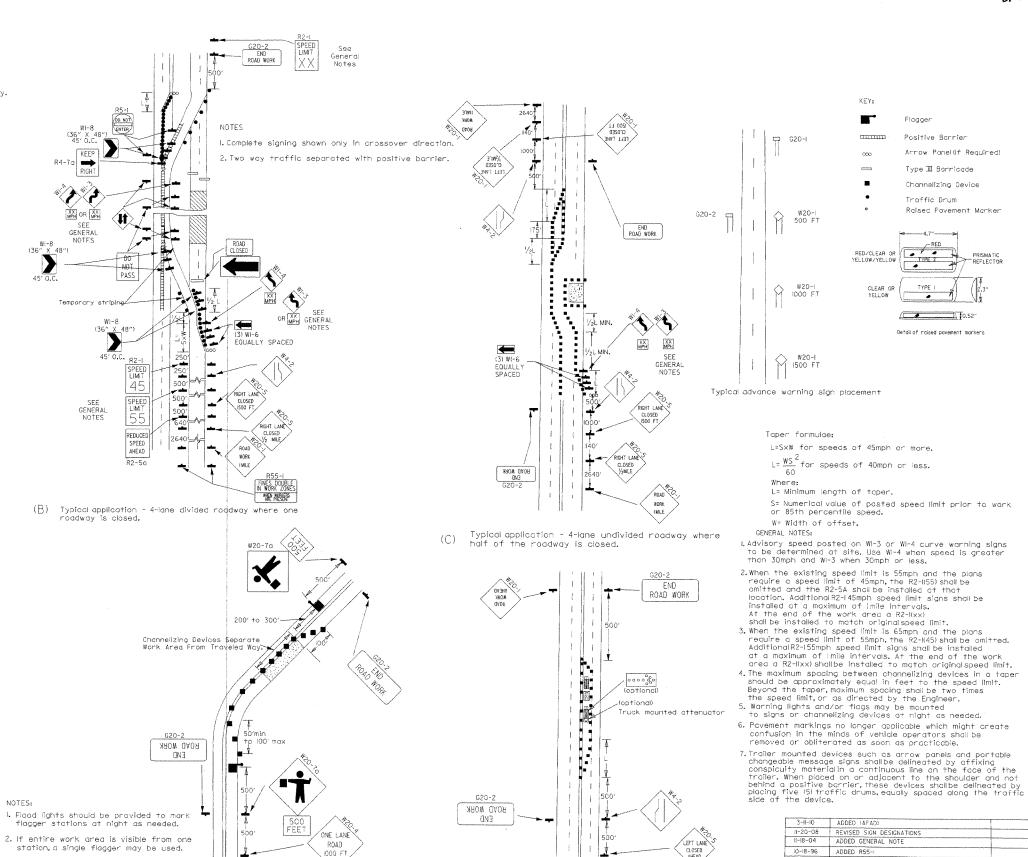
(DETOUR)

DETOUR

7

DETOUR

\1500 FT



(F) Typical application - 4-lane undivided roadway with inside lane closed.

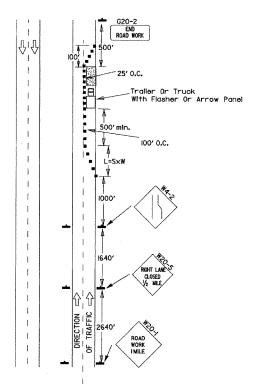
8" to 12"

8" to 12" 2' mIn -

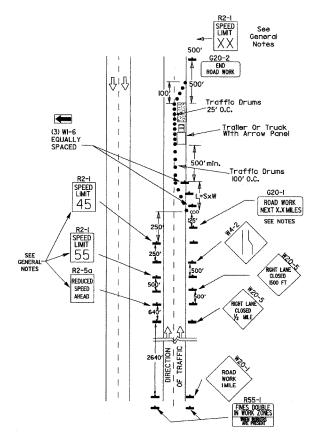
TYPE IIBARRICADE

VERTICAL PANEL
VP-IR

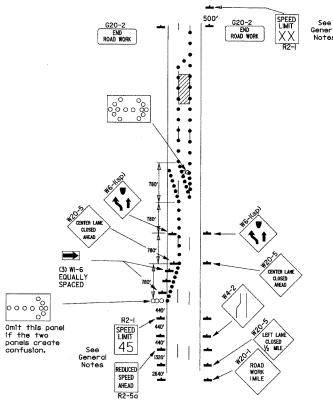
([)) Typical application - closing multiple lanes of a multilane highway.



Typical application - daytime maintenance operations of short duration on a (A) Typical application - day time maintained at the roadway is closed.



(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



Typical application - 3-lane oneway roadway where center lane is closed.

○ Arrow Panel (If Required)

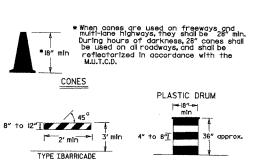
■ Channelizing Device

● Traffic drum

GENERAL NOTES:

- I. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- 2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1659 shall be omitted and the R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of limite intervals. At the end of the work area a R2-I(XX) shall be installed to match original speed limit.
- 3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-I(45) shall be omlitted. Additional R2-I55mph speed limit signs shall be installed at a maximum of Imile Intervals. At the end of the work area a R2-I(XX) shall be installed to match original speed limit.
- 4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
- 5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- 6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- 7. The G20-isign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-isign shall be erected 125' in advance of the job limit. Additional W20-1 (IMILE) signs are not required in advance of lane closures that begin inside the project limits.
- 8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- 9. All plastic drums and cones shall meet the requirements of NCHRP-350 or
- Manual For Assessing Safety Hardware (MASH).

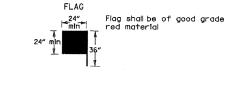
 10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspiculty material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.





8" to 12" 8" to 12" to 124

For all road closures, the Type III barricades shall be of sufficient length to extend



TRAFFIC CONTROL DEVICES VERTICAL PAVEMENT DIFFERENTIALS

Greater than 3" Edge of traveled lane *RSP-land vertical panels, drums or concrete barrier

When shown on the plans concrete barrier will be used.

When the shoulder area is used as part of the traveled lane and there is insufficient

TRAFFIC CONTROL

*Vertical panels, drums or concrete barrier

Standard lane closure required

ADDITIONAL POST

W8-II

W8-9

LOCATIONS

Centerline, lane lines

Edge of shoulder

Lane lines

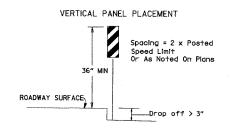
Greater than 3" Edge of shoulder

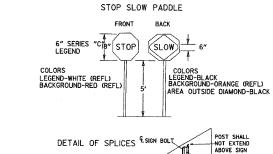
VERTICAL DIFFERENTIAL

Greater than 3"

I" to 3"

I" to 3"



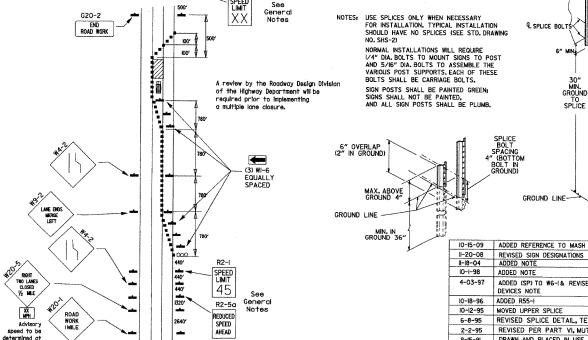


L SPLICE BOLTS

GROUND LINE-

30" MIN. GROUND

SPLICE



ADDED NOTE ADDED (SP) TO W6-1& REVISED TRAFFIC CONTROL ADDED R55-I 10-12-95 MOVED UPPER SPLICE 6-8-95 REVISED SPLICE DETAIL, TEXT 6-8-95 2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993 8-I5-9I DRAWN AND PLACED IN USE DATE REVISION ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION STANDARD DRAWING TC-3