PROJECT LOCATION VICINITY MAP

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CONSTRUCTION PLANS FOR STATE HIGHWAY

HWY. 70B/ HWY. 41/HWY. 329 SIGNAL REHAB. (DE QUEEN) (S)

SEVIER COUNTY

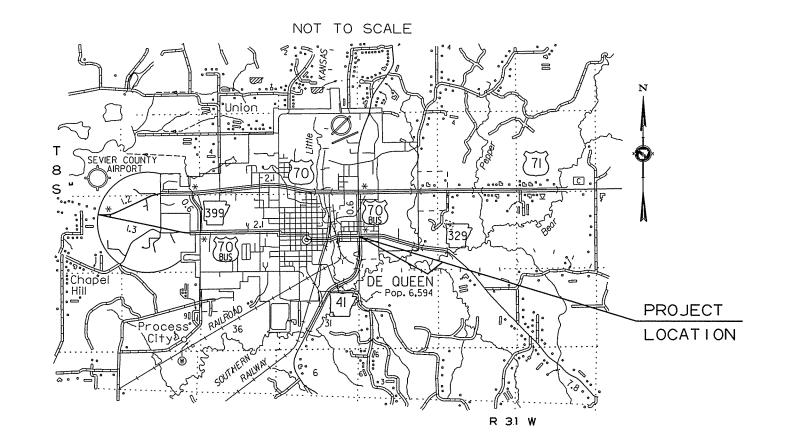
ROUTE 41/70B & 329 SECTION I, IB & I

JOB 030427

FED. AID PROJ. STP-9114(3)



ARK. HWY. DIST. NO. 3



APPROVED

ARKANSAS

RECOPPERED
PROFESSIONAL
ENGINEER
No. 4215

DEPUTY DIRECTOR AND CHIEF ENGINEER

LATITUDE N 34°02'14"
LONGITUDE W 94°19'47"

INDEX OF SHEETS

SHEET NO.	TITLE	DRAWING NO.	DATE
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5	MAINTENANCE OF TRAFFIC DETAIL		
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25	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	10-15-09

	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJNO.	SHEET NO.	TOTAL SHEETS
١					6	ARK.			
					JOB	NO.	030427	2	25

(2) INDEX OF SHEETS & GOV. SPECS.



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
108-1	LI QUI DATED DAMAGES
JOB 030427	CABINET DRAWER ASSEMBLY
JOB 030427	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 030427	EDGE CARD VIDEO PROCESSOR
JOB 030427	ELECTRI CAL CONDUCTORS FOR LUMI NAI RES
JOB 030427	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 030427	INTERNET BIDDING
JOB 030427	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
JOB 030427	LED TRAFFIC SIGNAL HEAD
JOB 030427	LUMI NAI RE ASSEMBLY (CUTOFF TYPE)
JOB 030427	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
JOB 030427	SERVICE POINT ASSEMBLY (TRAFFIC CONTROL DEVICES)
J0B 030427	STREET NAME SIGN (MAST ARM MOUNTED)
J0B 030427	UTILITY ADJUSTMENTS
JOB 030427	VIDEO DETECTOR (COLOR)

DATE: 11-12-14 FILE NAME: t030427_job.dgn

LOCATION: HWY. 70B/HWYS. 41 & 329

CITY: DE QUEEN

COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A DRAWN BY: GWE

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.		030427	3	25

(2) GENERAL NOTES



GENERAL NOTES

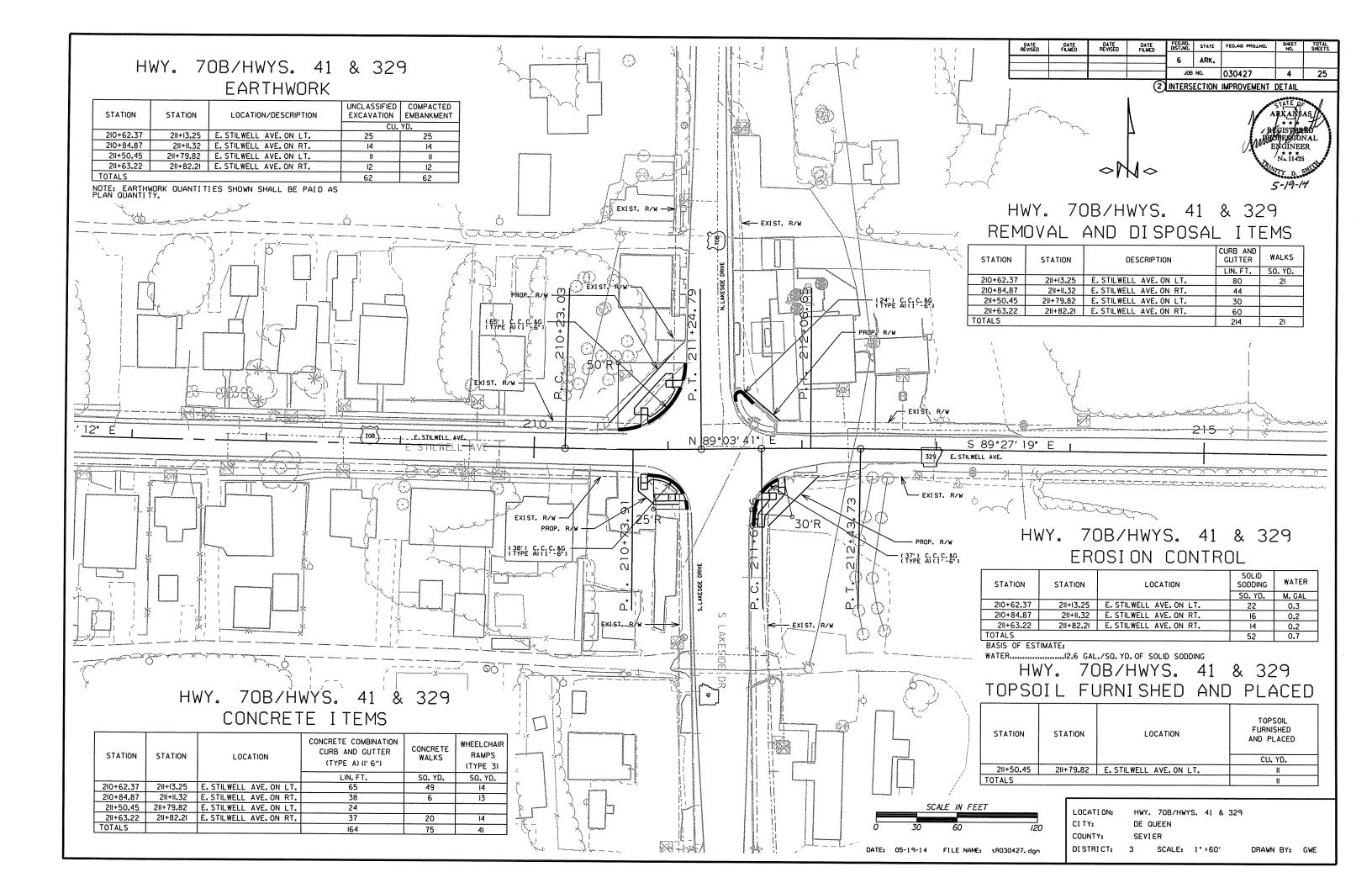
- 1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
- 2. ALL PIPE LINES, POWER, TELEPHONE AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- 3. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE 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.
- 7. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO 210-UNCLASSIFIED EXCAVATION.
- 8. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB.
- 9. THIS PROJECT IS COVERED UNDER A NATIONWIDE 14 SECTION 404 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.

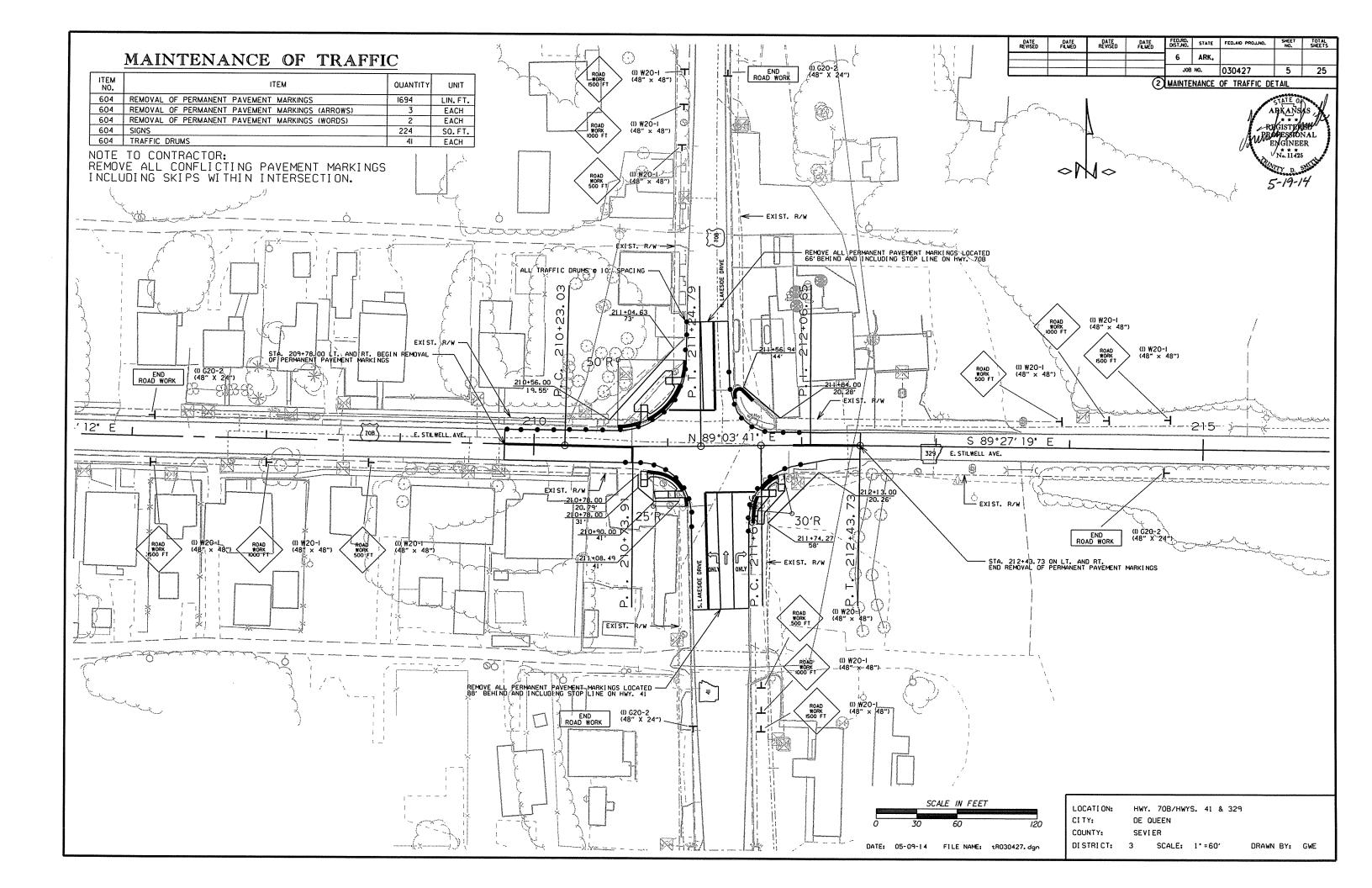
LOCATION: HWY. 70B/HWYS. 41 & 329

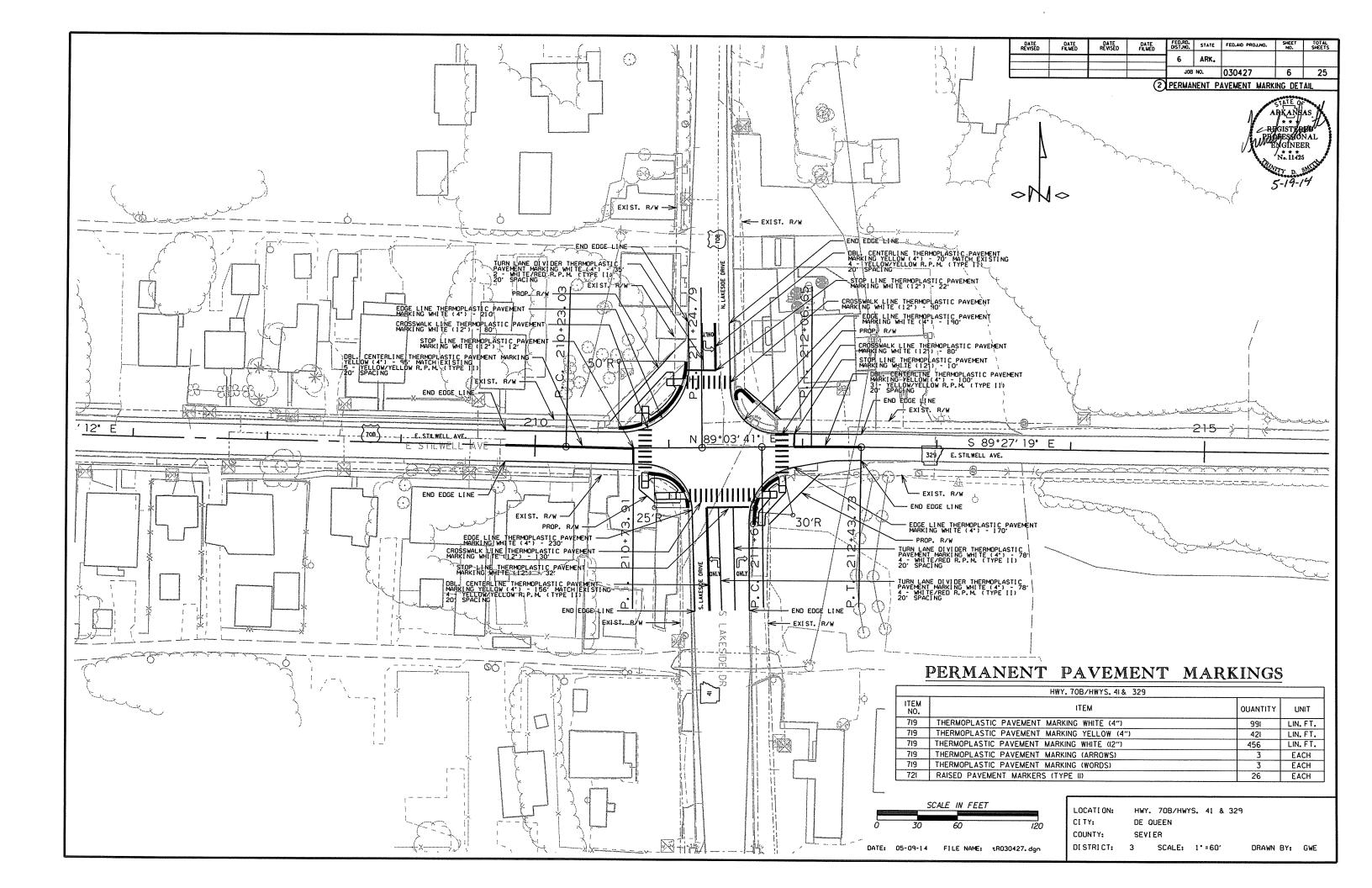
CITY: DE QUEEN

COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A DRAWN BY: GWE







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.	030427	7	25

2 SUMMARY OF QUANTITIES AND REVISIONS

REVISIONS

	ITEM	SHEET NUMBER
1		

DATE: 05-19-14 FILE NAME: t030427_job.dgn

SUMMARY OF	QUANTITIES
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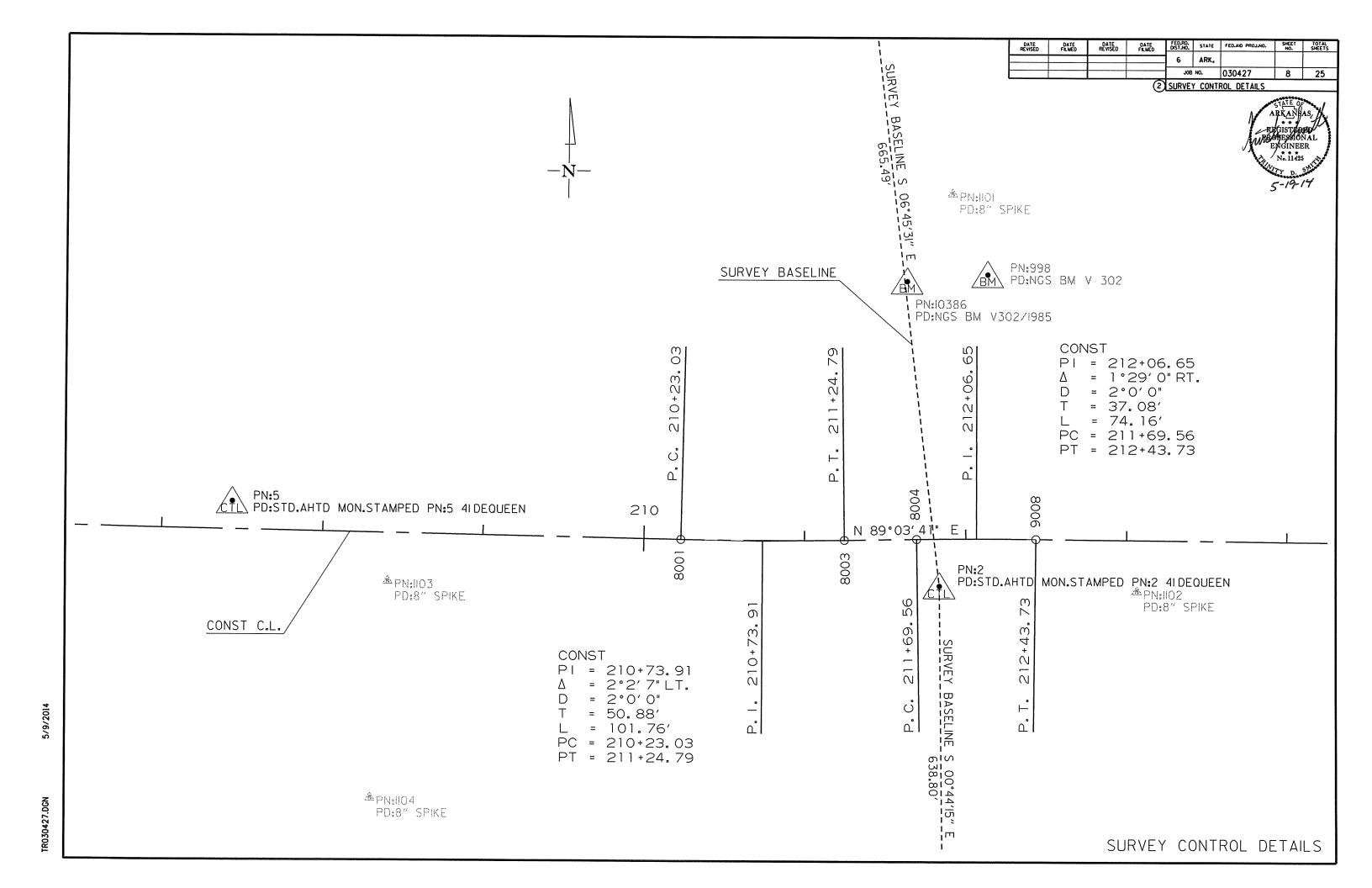
ITEM NO.	ITEM	TOTAL JOB QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER	214	LIN. FT.
202	REMOVAL AND DISPOSAL OF WALKS	21	SO, YD.
210	UNCLASSIFIED EXCAVATION	62	CU. YD.
210	COMPACTED EMBANKMENT	62	CU. YD.
601	MOBILIZATION	1.00	LUMP SUM
603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS	1694	LIN. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS (ARROWS)	3	EACH
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS (WORDS)	2	EACH
604	SIGNS	224	SO.FT.
604	TRAFFIC DRUMS	41	EACH
620	WATER CORRESPONDE	0.7	M. GAL.
624	SOLID SODDING	52	SO. YD.
628	TOPSOIL FURNISHED AND PLACED	ll l	CU. YD.
633	CONCRETE WALKS	75	SO. YD.
634 635	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (I' 6")	164	LIN. FT.
641	ROADWAY CONSTRUCTION CONTROL WHEELCHAIR RAMPS (TYPE 3)	1.00	LUMP SUM
	ACTUATED CONTROLLER TS 2-TYPE 2 (8 PHASES)	41	SQ. YD.
SP0.706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, I WAY)	<u> </u>	EACH
	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	1081	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	112	LIN. FT.
709	GALVANIZED STEEL CONDUIT (1,25")	450	LIN. FT.
710	NON-METALLIC CONDUIT (I,25")	20	
710	NON-METALLIC CONDUIT (2")	20	LIN. FT.
710	NON-METALLIC CONDUIT (3")	20 275	LIN. FT.
711	CONCRETE PULL BOX (TYPE 2 HD)	4	EACH
711	CONCRETE PULL BOX (TYPE 2)	2	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (26')	<u> </u>	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (38')	1	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (44')	i	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (46')	i	EACH
715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	i	EACH
719	THERMOPLASTIC PAVEMENT MARKING WHITE (4")	991	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (4")	421	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")	456	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	3	EACH
719	THERMOPLASTIC PAVEMENT MARKING (WORDS)	3	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	26	EACH
733	VIDEO CABLE	1173	LIN. FT.
SP&733	VIDEO DETECTOR (CLR)	7	EACH
733	VIDEO MONITOR (CLR)	I	EACH
	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	4	EACH
SP&733	VEHICLE DETECTOR RACK (I6 CHANNEL)	1	EACH
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	483	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (IC/8 A.W.G., EGC)	391	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (IC/I2 A.W.G., EGC)	150	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	20	LIN. FT.
SP	LUMINAIRE ASSEMBLY	3	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	1.00	LUMP SUM
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	18" STREET NAME SIGN	6	EACH

• QUANTITIES INCLUDE ONE SPARE VIDEO DETECTOR AND ONE SPARE VIDEO PROCESSOR.

LOCATION: HWY. 70B/HWYS. 41 & 329

CI TY: DE QUEEN COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A DRAWN BY: GWE



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JOB NO. 030427 9 25					6	ARK.			
					JOB	NO.	030427	9	25

(2) SURVEY CONTROL DETAILS



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SURVEY CONTROL COORDINATES

Project Name: s030427 Date: 5/8/2013

Coordinate System: ARKANSAS STATE PLANE - SOUTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND. Units: U.S. SURVEY FOOT

Point. Name	Northing	Easting	Elev Feature	Description
1	1819940. 2862	606581. 9215	427.954 CTL	*5/8' Rebar with 2' Aluminum Cap stamped PN:1 *5/8' Rebar with 2' Aluminum Cap stamped PN:2 *5/8' Rebar with 2' Aluminum Cap stamped PN:3 *5/8' Rebar with 2' Aluminum Cap stamped PN:4 *5/8' Rebar with 2' Aluminum Cap stamped PN:4 *5/8' Rebar with 2' Aluminum Cap stamped PN:5 *AHTD GPS MON.660009A RESET *AHTD GPS MON.660009A *NGS BM B 22 PUBLISHED ELEV. = 426.44 *NGS BM V 302 *NGS BM U 302
2	1819279. 4243	606660. 2394	415.542 CTL	
3	1818640. 6746	606668. 4603	410.965 CTL	
4	1819320. 4165	606998. 6877	405.669 CTL	
5	1819330. 8055	606220. 5609	401.356 CTL	
100	1822260. 4661	605424. 2183	434.669 GPS	
101	1822232. 6853	606463. 9606	413.957 GPS	
997	1819245. 4259	603401. 0344	426.340 BM	
998	1819473. 7570	606689. 2984	416.480 BM	
999	1823518. 2655	606697. 1882	445.660 BM	

*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. USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.

A PROJECT CAF OF 0.9998987515 HAS BEEN USED TO COMPUTE THE ABOVE LISTED GROUND COORDINATES. THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS. GRID DISTANCE = GROUND DISTANCE X CAF. GROUND COORDINATES ARE PROJECTED FROM AR. STATE PLANE GRID COORDINATES BY SCALING ALL X, Y COORDINATE VALUES WITH THE INVERSE (1/X) OF THE COMBINED AJUSTMENT FACTOR (CAF) ABOUT X=0, Y=0.

GRID COORDINATES ARE STORED UNDER FILE NAME. s030427gi.ct. HORIZONTAL DATUM: NAD 83 (1997) VERTICAL DATUM: NAVD 88 ELEVATIONS FOR POINTS 1-5, 100-101, AND 997-999 WERE ESTABLISHED BY 3-WIRE LEVEL TECHNIQUES FROM NGS BENCHMARKS.

POSITIONAL ACCURACY:

HORIZONTAL-GPS(POINTS 100-101): 1.0 CM 10 PPM, PRIMARY CONTROL(POINTS 1-5): 2.0 CM 20 PPM VERTICAL-POSITIONAL ACCURACY IS THIRD ORDER, UNLESS SPECIFIED OTHERWISE AT A SPECIFIC POINT

BASIS OF BEARING: ARKANSAS STATE PLANE GRID BEARINGS - 0302-SOUTH ZONE DETERMINED FROM GPS CONTROL POINTS: CONVERGENCE ANGLE: 01 18 14 LEFT AT PN: 2 GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

LT: 34-02-14 LG: 094-19-47

GRID NORTHING: 1819095.2250 GRID EASTING: 606598.8160 GROUND NORTHING: 1819279. 4243 GROUND EASTING: 606660. 2394

CONST								
POINT NO.	TYPE	STATION	NORTHING	EASTING				
8000 8001 8003 8004 8006 8007	POB PC PT PC PT POE	200+00.00 210+23.03 211+24.79 211+69.56 212+43.73 220+00.00	1819327. 6492 1819308. 0702 1819307. 9298 1819308. 6633 1819308. 9182 1819301. 7286	605476. 7350 606499. 5772 606601. 3310 606646. 0996 606720. 2607 607476. 4995				

TRAFFIC SIGNAL NOTES:

- I. 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, ARE NEEDED 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 SHALL HAVE 16 LOAD BAYS 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.
- 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 MAY BE USED.
- 9. TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.
- IO. PAVEMENT MARKING SHOWN FOR REFERENCE ONLY. SEE PAVEMENT MARKING PLAN SHEETS.
- II. 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.
- 12. ALL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE 3" 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. 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'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.
- 17. 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.
- 18. 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 KEYED INTO COMPETENT ROCK.
- 19. 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.
- 20. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO ISMA STANDARDS.
- 21. 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.
- 22. 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.
- 23. 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.

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.	030427	10	25

(2) TRAFFIC SIGNAL NOTES & GENERAL NOTES



5-19-14

LOCATION: HWY. 70B/HWYS. 41 & 329

CITY: DE QUEEN

DATE: 05-09-14 FILE NAME: t030427_job.dgn

COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A

DRAWN BY: GWE

TRAFFIC SIGNAL QUANTITIES

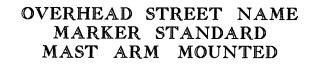
ITEM NO.	ITEM	QUANTITY	UNIT
SP&701	ACTUATED CONTROLLER TS 2-TYPE 2 (8 PHASES)	1	EACH
SP&706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, I WAY)	8	EACH
SP&707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	1081	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	112	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	450	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")	20	LIN. FT.
710	NON-METALLIC CONDUIT (3")	275	LIN. FT.
711	CONCRETE PULL BOX (TYPE 2 HD)	4	EACH
711	CONCRETE PULL BOX (TYPE 2)	2	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (26')	ı	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (38')	l	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (44')	1	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (46')	1	EACH
715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	1	EACH
733	VIDEO CABLE	1173	LIN. FT.
SP&733	VIDEO DETECTOR (CLR)	7	EACH
733	VIDEO MONITOR (CLR)	1	EACH
SP&733	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	4	EACH
SP&733	VEHICLE DETECTOR RACK (16 CHANNEL)	ı	EACH
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	483	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (IC/8 A.W.G., EGC)	391	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (IC/I2 A.W.G., EGC)	150	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	20	LIN. FT.
SP	LUMINAIRE ASSEMBLY	3	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	1.00	LUMP SUM
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	l l	EACH
SP	18" STREET NAME SIGN	6	EACH

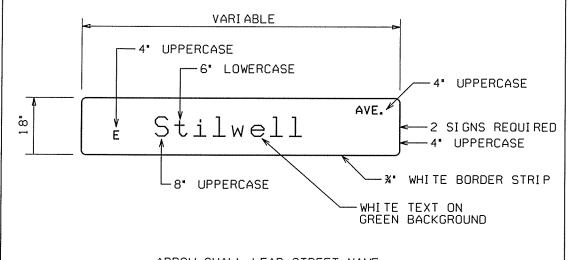
[.] QUANTITIES INCLUDE ONE SPARE VIDEO DETECTOR AND ONE SPARE PROCESSOR.

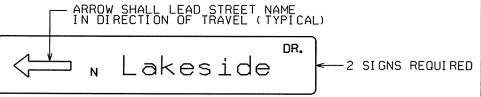
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJNO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB	NO.	030427	11	25

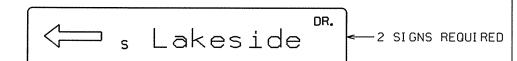
(2) TRAFFIC SIGNAL QUANTITIES











NOTES:
I, 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.

2. ALUMINUM SIGN BLANK SHALL BE ALLOY 6061-T6 OR 5052-H38. THE ALUMINUM SIGN SHALL ALSO BE ANODIZED. 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.

3. 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 NEARSIDE LEFT POLE.

SEE STD. DETAIL SHEET FOR MORE INFORMATION FOR MOUNTING ON

4. THE CLEARVIEW 5-W-R FONT SHALL BE USED FOR ALL LETTERS.

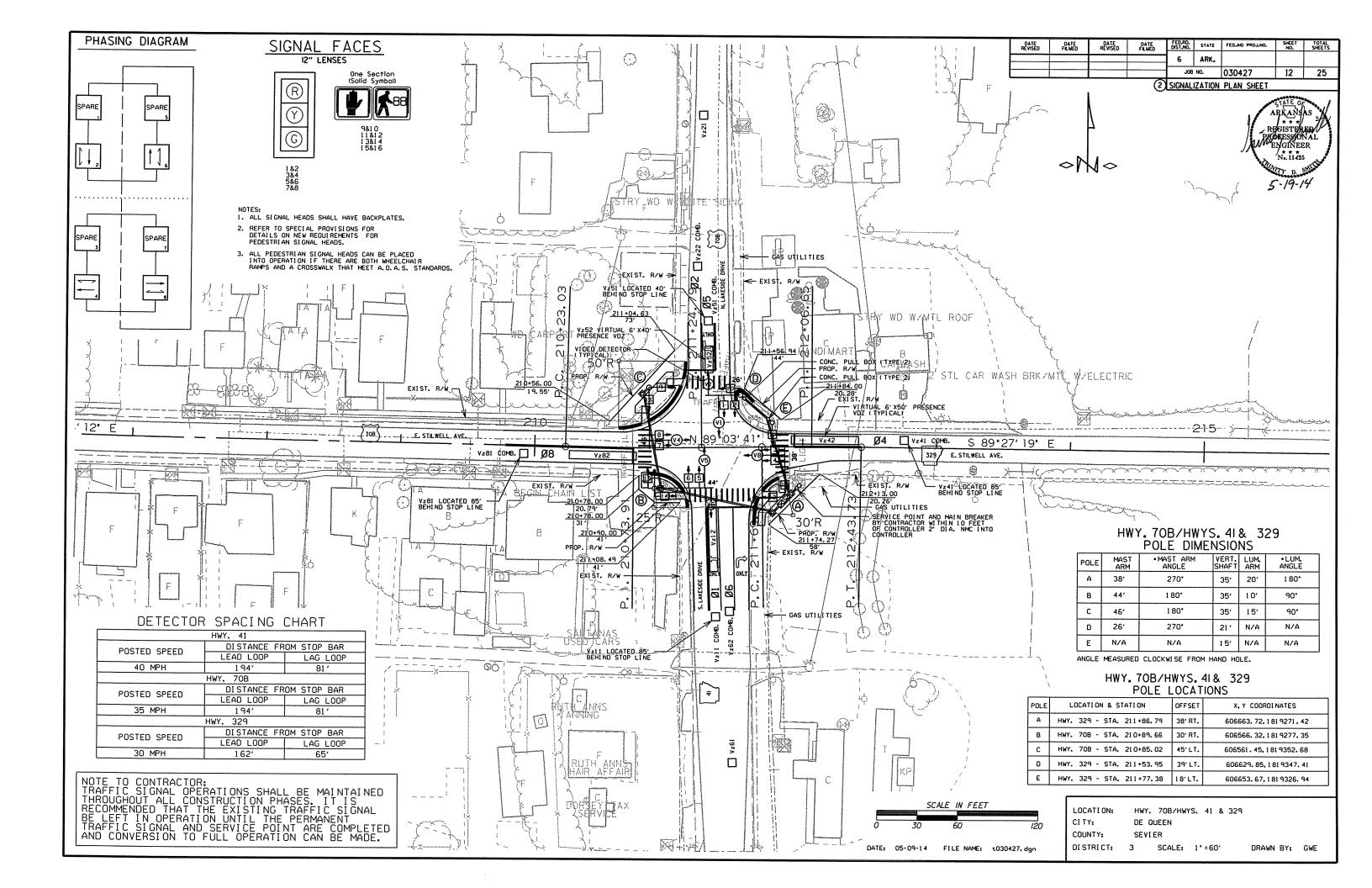
MAST ARM ASSEMBLY.

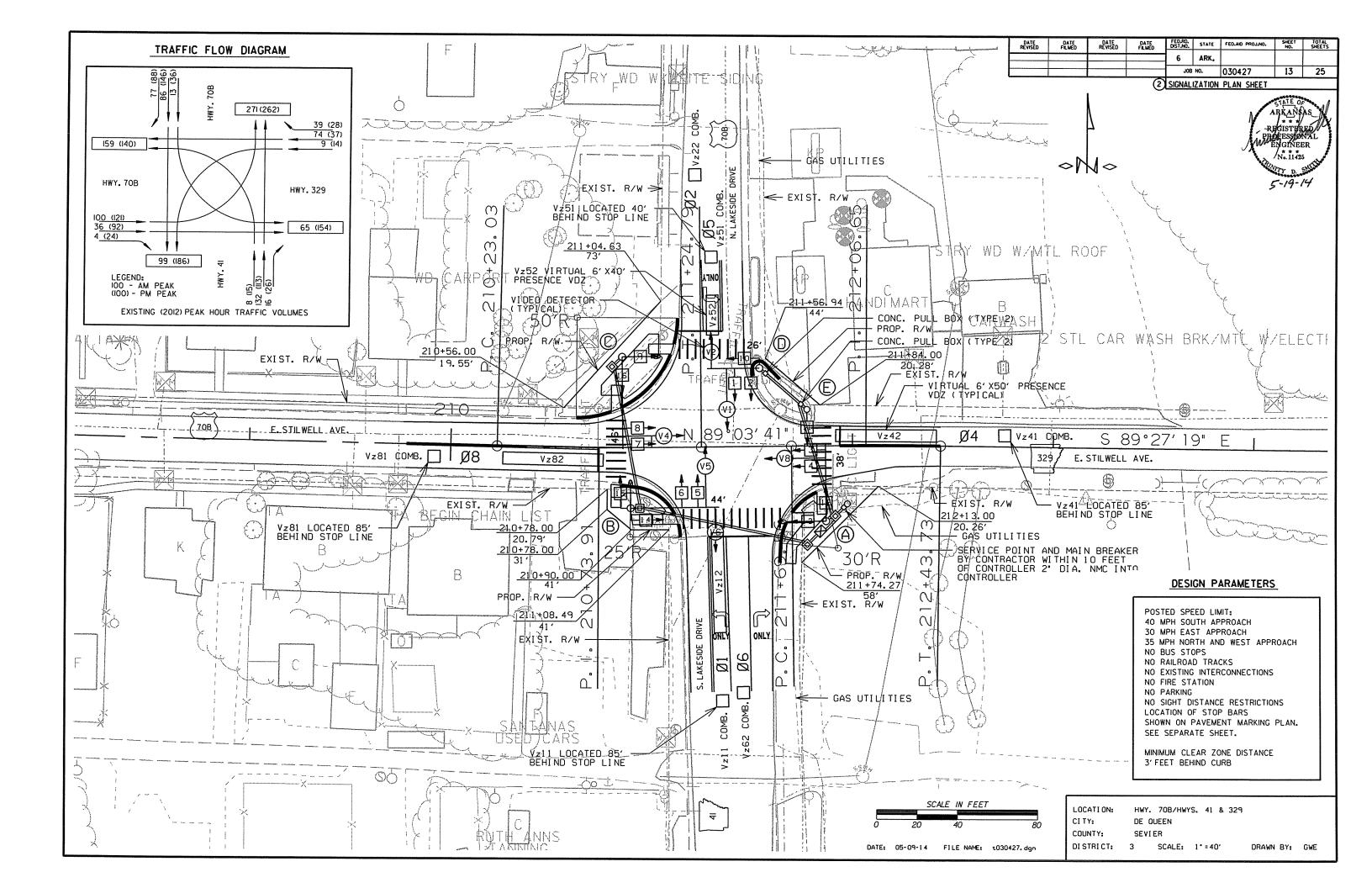
LOCATION: HWY. 70B/HWYS. 41 & 329

CITY: DE QUEEN
COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A DRAWN BY: GWE

DATE: 05-09-14 FILE NAME: t030427.dgn





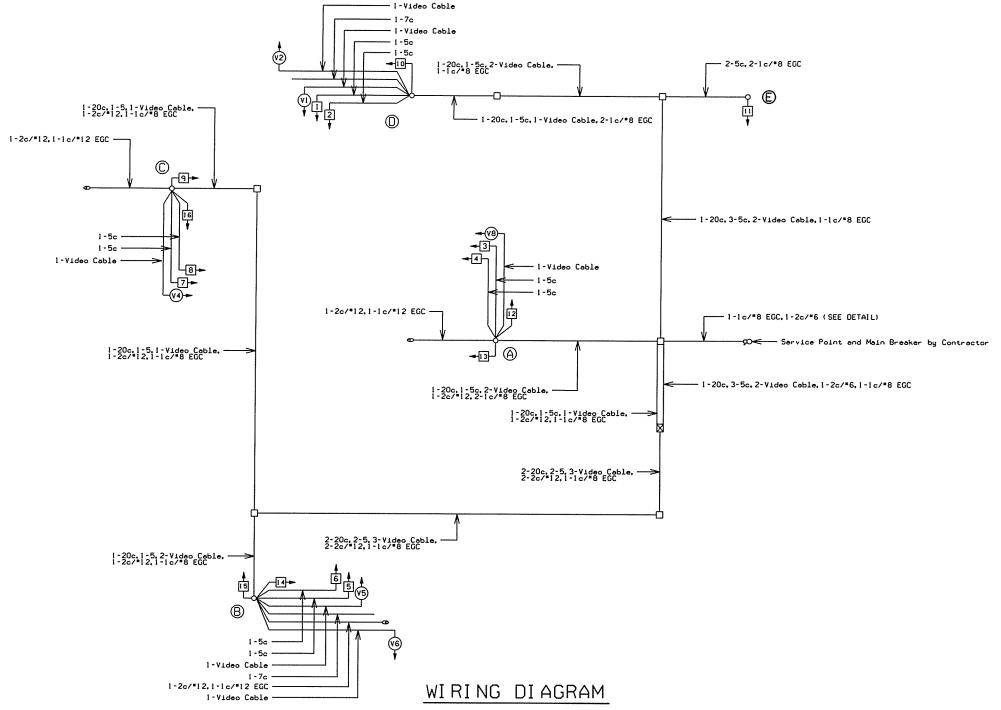
DATE PENSED PRUSED DATE PENSED DATE PENSED FEMSED STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS

6 ARK.

JOB NO. 030427 14 25

2 SIGNALIZATION PLAN SHEET

5-19-14



NOTES TO CONTRACTOR:

- 1. ONE SEPARATE 1-5c IS RUN TO EACH POLE FOR THE PEDESTRIAN PUSH BUTTON.
- 2. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
- 3. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.

LOCATION: HWY. 70B/HWYS. 41 & 329

CITY: DE QUEEN

COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A DRAWN BY: GWE

DATE: 05-09-14 FILE NAME: t030427.dgn

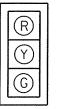
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJNO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB	NO.	030427	15	25

2 SIGNALIZATION PLAN SHEET



SIGNAL FACES

12" LENSES





- 1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
- 2. REFER TO SPECIAL PROVISIONS FOR DETAILS ON NEW REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
- 3. 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.

TUBE DETECTOR ASSIGNMENTS COMMENTS DET. ID* LOCATION DIRECTION TYPE Vz11 NB LEFT TURN FAR COMB. CAMERA VI 23* Vz12 NB LEFT TURN 23* CAMERA V2 SB ADVANCE 5 V2 2 23° Vz21 Vz22 LOCAL 6 V10 2 SB NEAR CAMERA V5 COMB. 11 V16 8 CAMERA V8 23° Vz81 Vz82 EB ADVANCE 12 V8 8 LOCAL EB NEAR V1 2 4 Vz41 WB ADVANCE WB NEAR 10 V4 4 CAMERA V4 Vz42 Vz51 SB LEFT TURN FAR COMB. Vz52 SB LEFT TURN 8 V5 5 CAMERA V5 LOCAL 23* LOCAL Vz61 NB ADVANCE 3 V6 6 CAMERA V6 23' CAMERA VI Vz62 NB NEAR COMB. 4 VI4 6 23' PB2A&B DE QUEEN AVE. W. LEG PED. PB4A&B LAKESIDE DR. N. LEG PED. PB6A&B E. STILLWELL E. LEG PED.

P6 6

P8 8 SPARE 13,14,15 & 16

PHASING DIAGRAM

.

SPARE

PB8A&B LAKESIDE DR. S. LEG PED. CONTROLLER INPUT ABBREVIATIONS: V = VEHICLE INPUT

DE OUEEN - HWY. 70B/HWYS. 41 & 329

D = SYSTEM OR AUXILIARY INPUT P = PEDESTRIAN INPUT

NOTE: 'AMP CHN:' REFERS TO THE DETECTOR RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9-SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL	HWY.7	70B/H		FLASH					
FACES	2+6	CLR.	4+8	CLR.		SEQ.			
1&2	G	••	R	R		R			
3&4	R	R	G	••		R			
5&6	G	••	R	R		R			
7&8	R	R	G	•		R			
9&10	D₩	DW	₩	FDW		BLK			
11&12	₩	FDW	D₩	D₩		BLK			
13&14	DW	D₩	₩	FDW		BLK			
15&16	W	FDW	D₩	D₩		BLK			

- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- .. DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- ••• DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: HWY. 70B/HWYS. 41 & 329

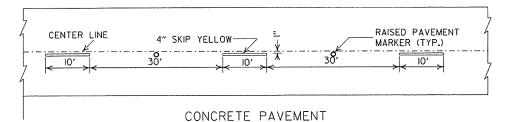
CI TY: DE QUEEN

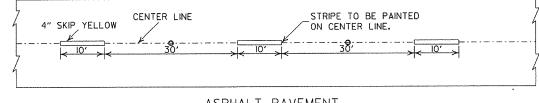
COUNTY: SEVIER

DISTRICT: 3 SCALE: N/A DRAWN BY: GWE

DATE: 05-09-14 FILE NAME: t030427.dgn

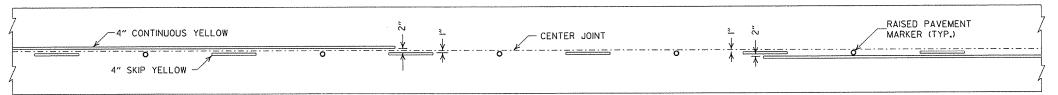




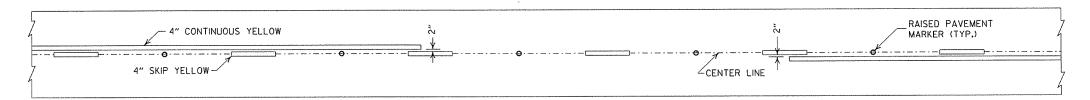


ASPHALT PAVEMENT

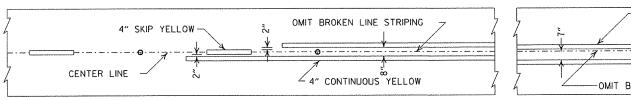
BROKEN LINE STRIPING

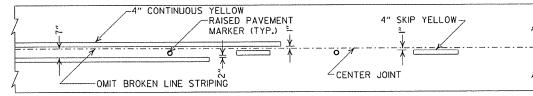


SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT





ASPHALT PAVEMENT

CONCRETE PAVEMENT

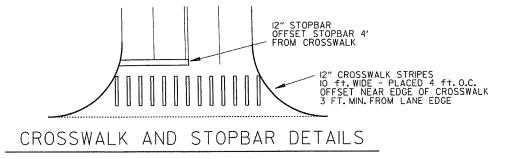
GENERAL NOTES:

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

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

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 QUALIFIED PRODUCTS LIST.

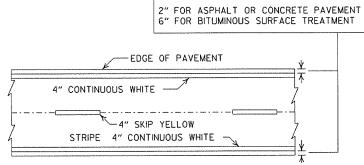
STRIPING AT ADJACENT NO PASSING LANES



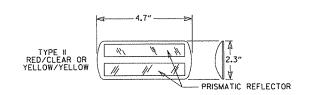
	REVISED DETAIL OF STANDARD						
	RAISED PAVEMENT MARKERS		ARKANSAS STATE HIGHWAY COMMISSION				
11-17-10	REVISED GENERAL NOTES &						
	REMOVED PLOWABLE PVMT MRKRS						
11-18-04	REVISED NOTE 2 & GENERAL						
	NOTES		DAVENIENT MADIZING DETAILO				
8-22-02	ADDED CROSSWALK &		PAVEMENT MARKING DETAILS				
	STOPBAR DTLS.						
7-02-98	ADDED DETAILS OF STD.						
	RAISED PAV'T. MARKERS	1					
4-26-96	REV. NOTES 3&4; ADDED R.P.M.						
9-30-80	DRAWN	1-9-30-80	STANDARD DRAWING PM-1				
DATE	REVISION	FILMED	ביין טאוואאחם טאואווכ				
							

NOTES:

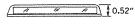
- I. ALL LINES SHALL HAVE A WIDTH OF 4 INCHES.
- 2. THE THICKNESS AND RATE OF PAINT APPLICATION SHALL BE AS SPECIFIED IN SECTION 718 OF THE STANDARD SPECIFICATIONS.
- 3. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- 4.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



PAVEMENT EDGE LINE MARKING



NOTE: THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.



DETAIL OF STANDARD RAISED PAVEMENT MARKERS

LOOP DETECTOR INSTALLATION AND TESTING

NOTES:

- 1. LOOPS WITH A PERIMETER GREATER THAN 40' SHALL HAVE TWO TURNS, LOOPS WITH A PERIMETER LESS THAN OR EQUAL TO 40' SHALL HAVE THREE TURNS, UNLESS OTHERWISE NOTED ON THE PLANS.QUADRUPOLE LOOPS SHALL BE TWO TURNS (2-4-2 CONFIGURATION) UNLESS OTHERWISE NOTED.
- 2. LOOP AND FEEDER WIRE SHALL BE CONTINUOUS WITHOUT SPLICES EXCEPT AT THE LOOP/FEEDER WIRE SPLICE AS SHOWN. SPLICE SHALL BE ROSIN SOLDERED AND WATERPROOFED WITHAN ACCEPTED SPLICE KIT. DRAIN WIRE SHALL BE GROUNDED IN CABINET AND INSULATED AT LOOP TO FEEDER SPLICE.
- THE LOOP TO FEEDER SPLICE, FEEDER JACKET AND JACKET OF LOOP WIRE IN DUCT SHALL BE COMPLETELY SEALED AND WATERPROOFED.
- CONTRACTOR MAY MAKE CONNECTIONS TO SIGNAL CABLE AND LOOP TO FEEDER CONNECTION AT TERMINAL STRIPS MOUNTED TO POLE INSIDE HAND HOLD COVER AS SHOWN IN DETAIL. TERMINALS MUST BE EASILY ACCESSIBLE, BUT PROTECTED AGAINST ACCIDENTAL CONTACT. CONNECTION OF POWER CARRYING CIRCUITS MUST BE SEPARATED FROM LOOP OR LOGIC CIRCUITS. ALL CONNECTIONS TO TERMINAL STRIPS SHALL UTILIZE SPADE LUGS OR AS APPROVED BY THE ENGINEER.
- EACH LOOP SHALL HAVE A SEPARATE "FEEDER WIRE" UNLESS OTHERWISE NOTED. ALL FEEDER WIRES SHALL BE LABELED AS TO LOOP NUMBER AS DESIGNATED ON THE PLANS.
- ALL LOOP WIRE ENTERING PULL BOXES SHALL BE ENCLOSED IN CONDUIT. EACH LOOP WIRE SHALL ENTER PULL BOX OR POLE BASE THROUGH A SEPARATE PIECE OF ONE INCH ("O) CONDUIT.
- 7. LOOP WIRE FROM LOOP TO CONDUIT IS NOT TWISTED. LOOP WIRE IN THE CONDUIT MUST BE TWISTED TWO TO FIVE TURNS PER FOOT.
- WARRANTY PERIOD FOR LOOPS SHALL NOT COMMENCE UNTIL TESTED BY THE CONTRACTOR AND ACCEPTED BY THE ENGINEER. CONTRACTOR SHALL PERFORM TEST AND PROVIDE A RECORD TO THE ENGINEER AS LISTED IN THE DETECTOR LOOP TESTING PROCEDURE.
- UNLESS OTHERWISE APPROVED BY THE ENGINEER, BACKER ROD SHALL BE INSTALLED IN SHORT SECTIONS SPACED NOT MORE THAN 18" APART AND WEDGED INTO SLOT TO HOLD CABLE IN PLACE. CABLE SHALL BE TOTALLY ENCAPSULATED IN SEALER.
- "HOT POUR" SEALER SHALL NOT BE ALLOWED WITH 705-LOOP WIRING IN DUCT.
- WHERE UNDERGROUND SPLICES OF SIGNAL CABLE ARE REQUIRED, CONNECTIONS SHALL BE SOLDERED AND COMPLETELY WATERPROOFED TO THE SATISFACTION OF THE ENGINEER. WATERPROOFING SHALL EXTEND A MINIMUM OF TWO INCHES PAST THE SIGNAL CABLE JACKET AND SHALL COMPLETELY COVER ALL INDIVIDUAL CONDUCTORS OF THE SIGNAL CABLE. WATERPROOFING DOES NOT APPLY TO CONNECTIONS MADE IN POLE BASES.
- CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE. ONLY ONE NEUTRAL IS REQUIRED FOR PEDESTRIAN SIGNALS. A SEPARATE 5C (TYPICAL) IS PROVIDED FOR PEDESTRIAN PUSH BUTTONS.
- 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 CONTROLLER, CONTROLLER CABINET SHALL BE WIRED SUCH POWER TO LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS DURING FLASH OPERATION.

EXISTING ROADWAY WITH COMPATIBLE

---- 5"±1"-

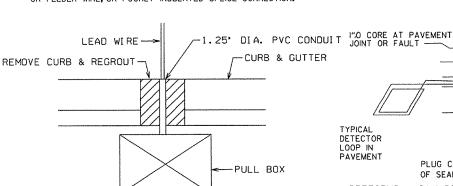
ALTERNATE - WHEN INSTALLING PREFORMS ON SUBSTRATE.

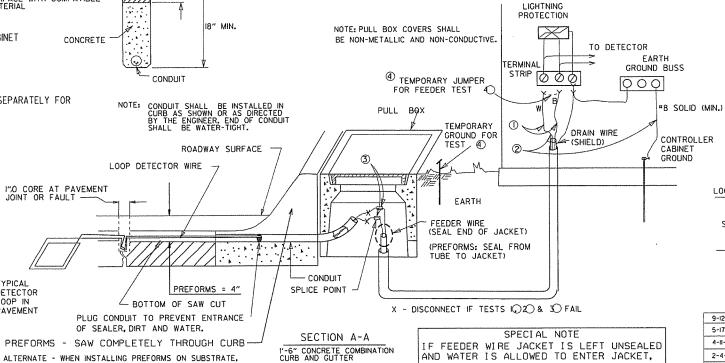
LEAD-INS MAY BE INSTALLED IN CONDUIT UNDERNEATH THE CURB AND GUTTER.



- DISCONNECT AND TEST CONTINUITY (< 10 OHMS) IF CONTINUITY IS BAD, GO TO TEST 3
- (2) TEST INSULATION (@ 500 VOLT TEST > 10 MEG-0HM) IF TESTS 1& 2 ARE GOOD, NO FURTHER TESTING IS NECESSARY. RECORDED RESULTS CONSIST OF TESTS 1& 2 FROM CONTROL CABINET WITH FEEDER WIRE CONNECTED TO LOOP.
- (3) OPEN SPLICE (DO NOT BREAK CONNECTION) REPEAT TEST 1& 2 IF TEST 3 IS BAD , GO TO TEST 4
- (4) BREAK SPLICE, INSTALL JUMPER IN CABINET, REPEAT TESTS 1& 2 SEPARATELY FOR FEEDER AND FOR LOOP

FAILURES TYPICALLY RESULT FROM BROKEN WIRE IN PAVEMENT, FAULTY INSULATION OF LOOP OR FEEDER WIRE, OR POORLY INSULATED SPLICE CONNECTION.

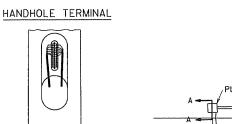




TWO TURNS

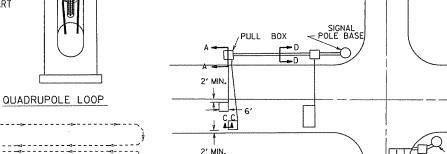
(2-4-2 CONFIGURATION)

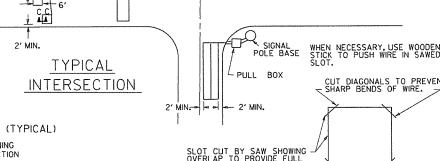
SERIES CONNECTED LOOPS TERM. STRIP TO AMPLIFIER WHITE PO-TO AMPLIFIER LOOPS COUNTERCLOCKWISE; TAG EXITING SLOT AND TIE TO WHITE O OF FEEDER WIRE; WHEN LOOPS TIED TO SAME VEHICLE DETECTOR, ES CONNECT IN CABINET AS SHOWN.



AND WATER IS ALLOWED TO ENTER JACKET,

CONTRACTOR WILL BE REQUIRED TO REPLACE FEEDER AT NO COST TO THE DEPARTMENT.





TYPICAL SECTIONS FOR PULSE AND

TRAFFIC SIGNAL PRE-EMPTION INTERFACE

WIRING DIAGRAM

0 (1)

TO CONTROLLER

NOTE: SYSTEM IS WIRED "FAIL-SAFE" RELAY (SHOWN IN DE-ENERGIZED POSITION)

REMAINS ENERGIZED FOR NORMAL OPERATION.

PANEL S

TO N.C. CONTACTS
OPEN FOR ACTIVATION OF PREEMPT.

TEST SWITCH

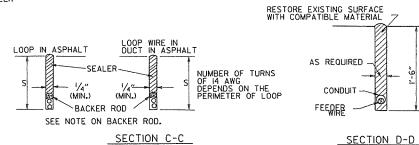
TEST

RELAY ON

OCTAL MT. BASE

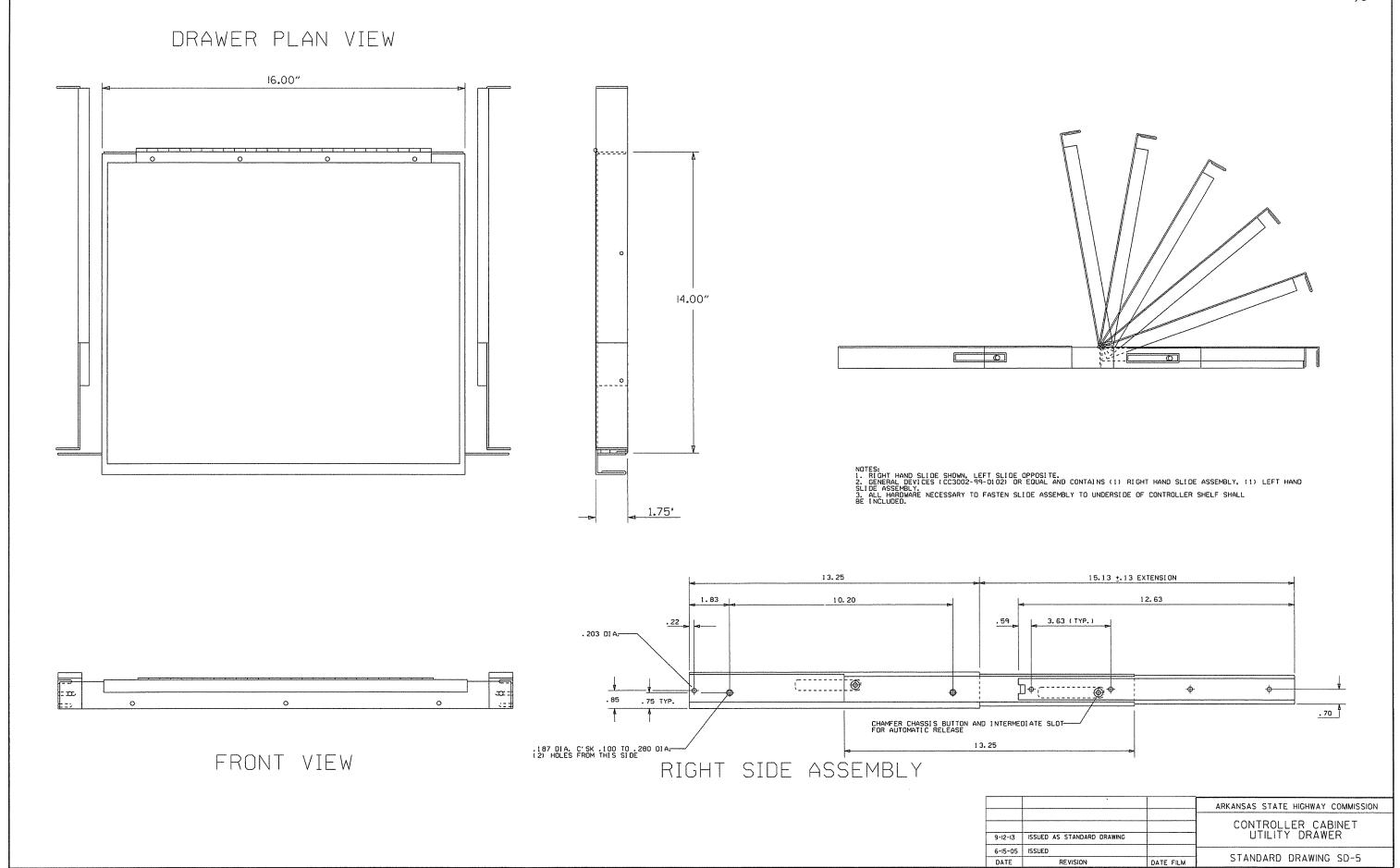
SURGE

PRESENCE LOOP DETECTORS



S=2 1/2" IN ASPHALT S=11/2" IN CONCRETE

9-12-13	ISSUED AS STANDARD DRAWING		
5-17-01	REVISED		ARKANSAS STATE HIGHWAY COMMISSION
4-11-01	REVISED		
2-4-00	REVISED PRE-EMPTION TEST SWITCH		LOOP DETECTOR INSTALLATION
11-18-98	REVISED NOTES		LOOF BETEGION INSTALLATION
11-21-95	ISSUED		CTANDADD DDANNING CD 4
DATE	REVISION	DATE FILM	STANDARD DRAWING SD-4

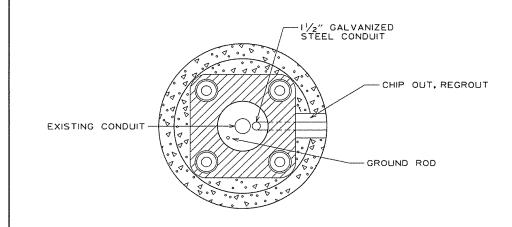


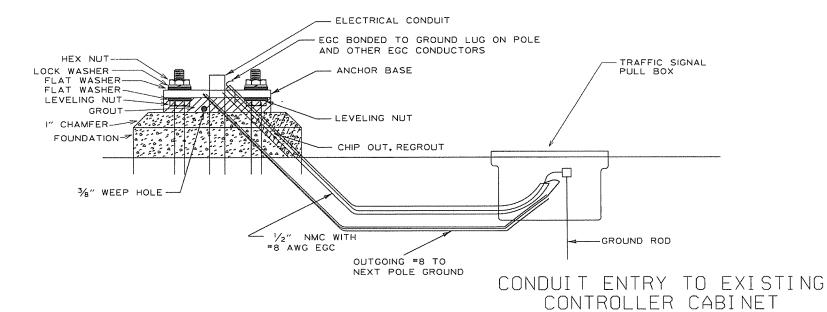
- EXIST. CONTROLLER CABINET

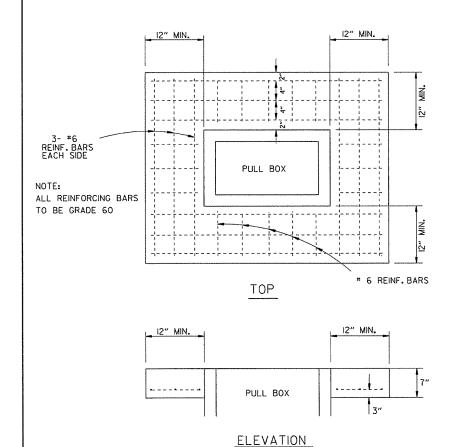
NMC AS SHOWN ON PLANS

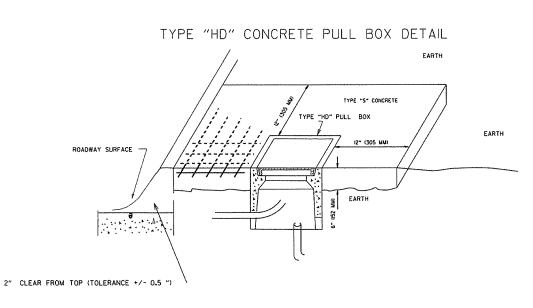
CONDUIT ENTRY TO EXISTING POLE BASE

ANCHOR BASE









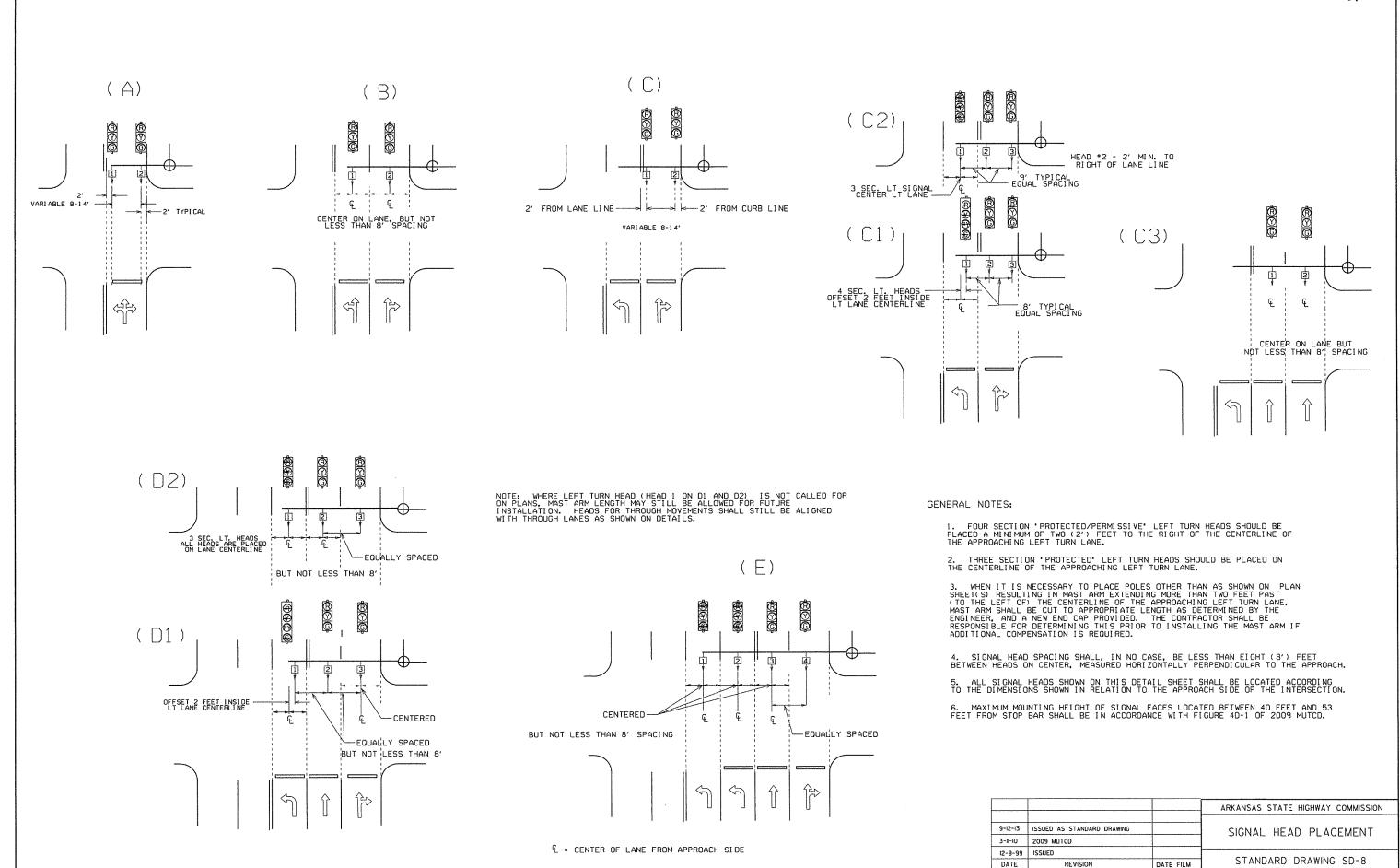
9-12-13 ISSUED AS STANDARD DRAWING
5-21-09 REVISED GROUNDING
7-31-08 ADDED & REVISED CONDUIT ENTRY
6-23-04 REVISED CLEARANCE AT CURB ENTRY ARKANSAS STATE HIGHWAY COMMISSION
1-4-02 ADDED REINFORCING TO BOX APRON
7-2-01 REVISED HEAVY DUTY PULL BOX
12-27-99 REVISED NOTES
11-18-98 ISSUED STANDARD DRAWING SD-6

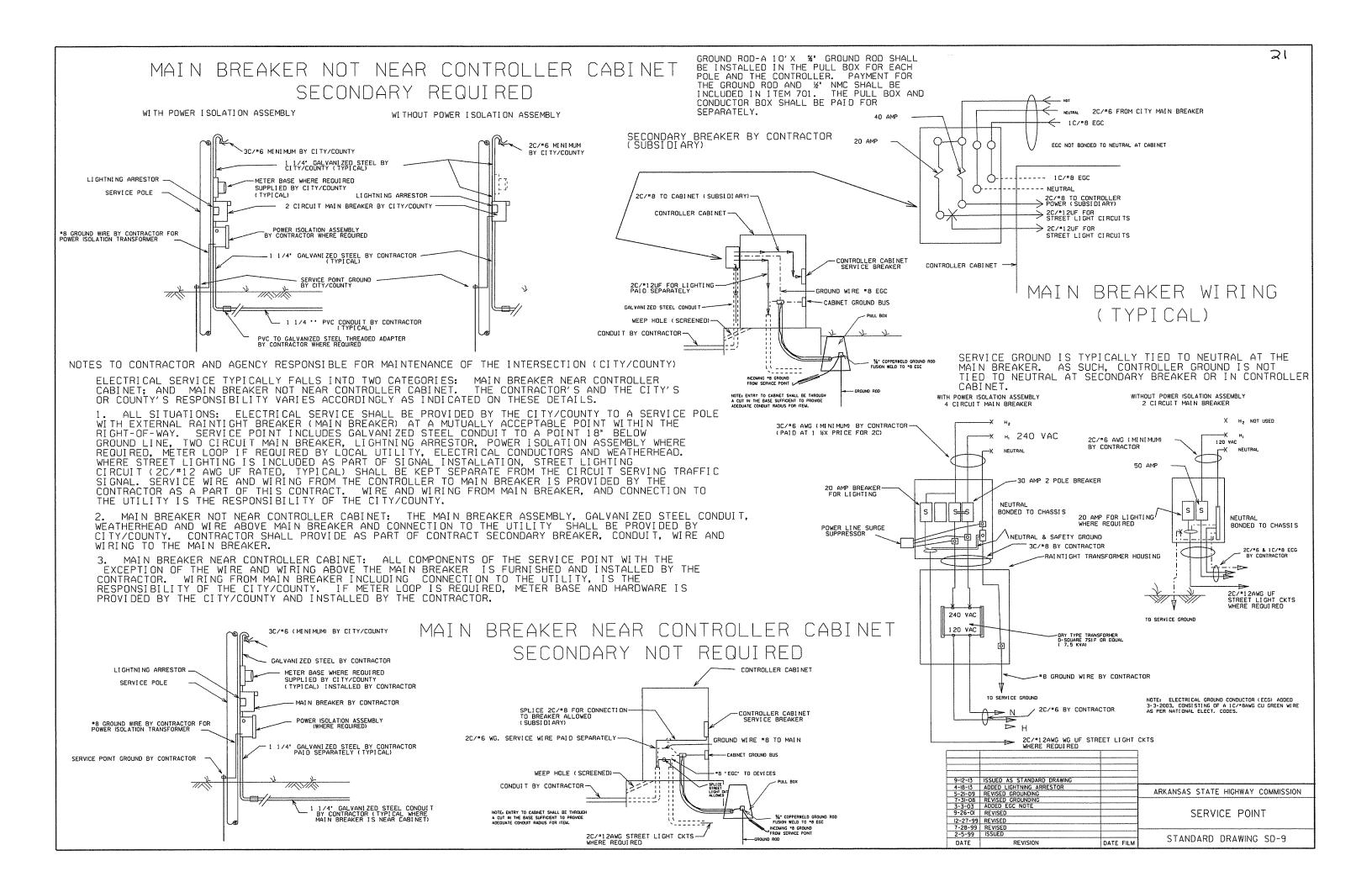
-EXIST. CONTROLLER CABINET

CONCRETE BASE

NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

IOTE: ALL TYPE IAND TYPE 2 HD PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" (305 MM) WIDE AND 6" (152 MM) IN DEPTH, ALL PAYMENT SHALL BE VOLLUBED IN THE PRICE OF THE TYPE HD PULL BOX. PULL BOX SHALL BE INSTALLED LUSH TO SURROUNDING GRADE UNLESS O'THERWISE INSTRUCTED BY THE ENGINEER. THE ONCRETE SHALL BE CLASS "S." THREE "6 REINFORCING BARS IN THE APRON ON ALIDES OF THE PULL BOX IS REQUIRED IN CONCRETE.





NOTES, PED AND TRAFFIC SIGNAL HEAD SIGNS: EACH ITEM 'TRAFFIC SIGNAL HEAD (4 SEC., 1-WAY) SHALL INCLUDE A SPECIAL SIGN AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12' TO THE RIGHT OF THE SIGNAL HEAD UNLESS REMOVED WITHIN THE SIGNAL PLAN NOTES.

EACH ITEM 'TRAFFIC SIGNAL HEAD (3 SEC., 1-WAY)' TO BE 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.

- 1. 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.
- 3. 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

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

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 (CURRENT 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 IN. BACK PLATES:

HEADS AT FND OF ARM - ONE 4 SEC., 85 LB., 16.0 SO. FT. ONE SIGN MOUNTED 3 FT. FROM SIGNAL . 2' X O' 2' . 6'; 20 LB. REMAINING HEADS SPACED A 8 FT. . 3 SEC., 56 LB., TWO 5 SEC): 14.4 SO, FT. DESIGN TO ACCOMMODATE (INCLUDING 2 HEADS FOR ARMS 10 TO 16 FT. 2 HEADS FOR ARMS 10 TO 16 FT. INCLUDING LB.

4 HEADS FOR OVER 26 FT. ARMS.

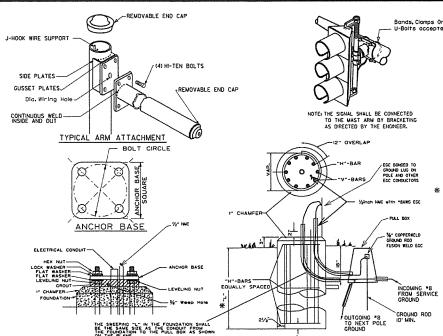
STREET NAME SIGN -- 72" X 18", 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAN 12 FT. FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT ROADWAY LUMINAIRES (WHERE REQUIRED ON PLAN SHEET) * VARIABLE ARM LENGTH (MAX.), 3.3 SQ. FT., 75 LB. PED SIGNALS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

POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE

- POLE/MAST ARM CAP -- POLE AND MAST ARMS CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST ALUMINUM.
- 5, 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.

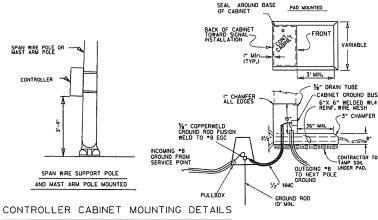


THE GROUND ROD SHALL BE FUSION WELDED TO A IC/*8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP. THE ROD IS TO BE LOCATED IN THE CONCRETE PULL BOX.

TYPICAL FOUNDATION DETAILS

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

ARM	FON.	DEPTH	ST		
LENGTH	DIAMETER	"L" *	VERT.	HORZ.	0/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

SIGNAL OPERATION NOTES:

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL 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 PERIAMENT 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.

DESIGN LOAD FOR ARMS 18' TO 24'

SPECIAL NOTE: 90 MPH WIND ZONE DESIGN, SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.

-2.3" O.D.

8' - 0" Min

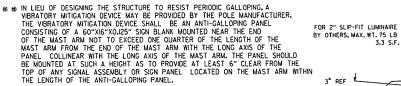
J-HOOK WELDED INSIDE POLE

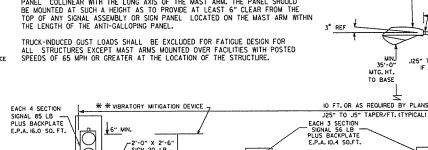
EACH PED SIGNAL SIGNAL 80 LB E.P.A. 8.0 SQ.FT.

VARIABLE LENGTH

24" MIN. POLE TO ANTENNA

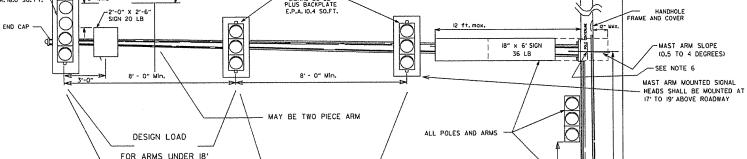
* WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE ROADWAY ELEVATION, THE LENGTH OF FOUNDATION ABOVE THE GROUND MAY BE INCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE ROADWAY. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DETH "L" WILL BE REQUIRED. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 5"-6" OR LESS, INCREASE DETH "L" BY I"-0", FOR LENGTHS GREATER THAN 5"-6", DEFTH "L" SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, LONGITUDINAL REINFORCING, AS SHOWN IN THE TABLE, SHALL BE PROVIDED FOR THE LENGTH OF THE EXTENDED SHAFT AND *4 TIES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 9" ON CENTERS, PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 OF THE STANDARD SPECIFICATIONS.





VIBRATORY MITIGATION DEVICE

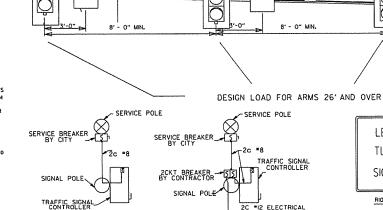
-2'-0" X 2'-6" SIGN 20 LB



RIO-10

3.3 S.F.

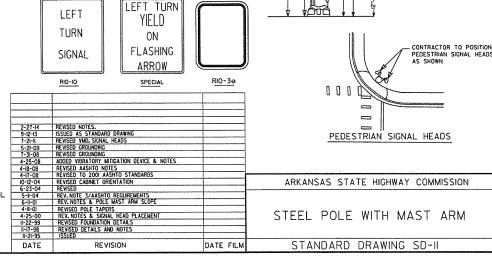
TO BASE



TRAFFIC SIGNAL
CONTROLLER NO LUMINAIRE WITH LUMINAIRE SERVICE DISCONNECT

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

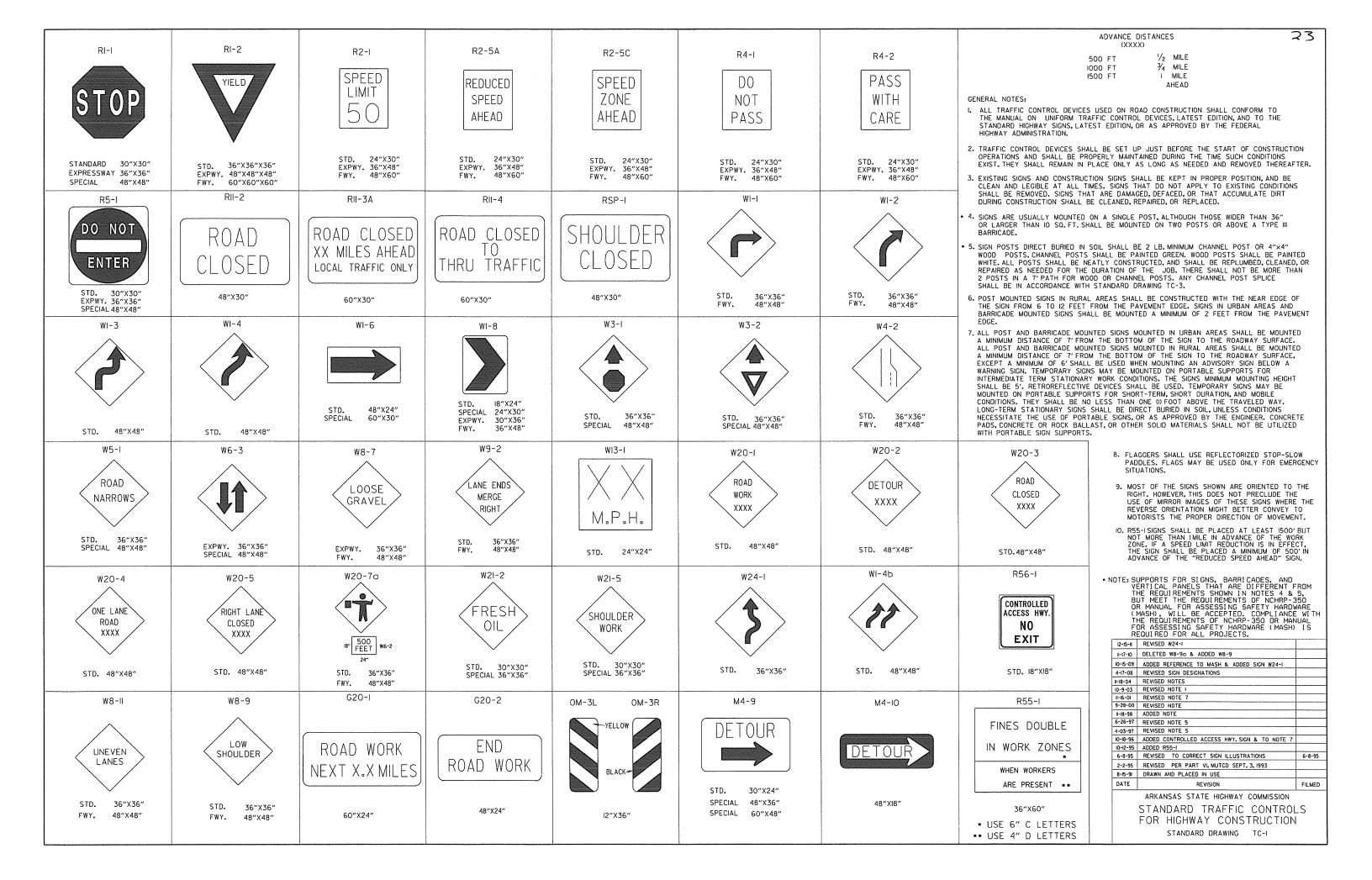
11. PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S). FURNISHING AND INSTALLING PED PUSH SWITCH SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM PEDESTRIAN SIGNAL HEAD.



ARKANSAS STATE HIGHWAY COMMISSION

STEEL POLE WITH MAST ARM

STANDARD DRAWING SD-II



KEY:

RED/CLEAR OF

G20~

TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE. L= WS FOR SPEEDS OF 40MPH OR LESS.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

I, ADVISORY SPEED POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE, USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-3 WHEN 30MPH OR LESS.

L= MINIMUM LENGTH OF TAPER.

W= WIDTH OF OFFSET.

GENERAL NOTES:

FLAGGER

ARROW PANEL (IF REQUIRED)

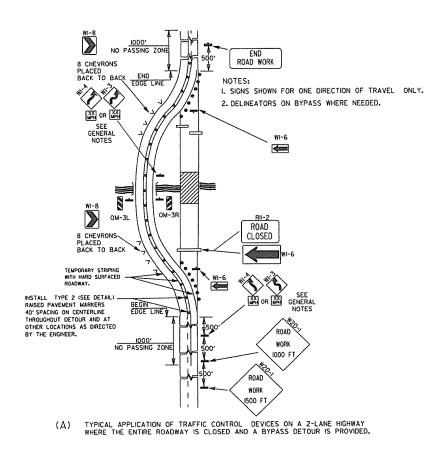
RAISED PAVEMENT MARKER

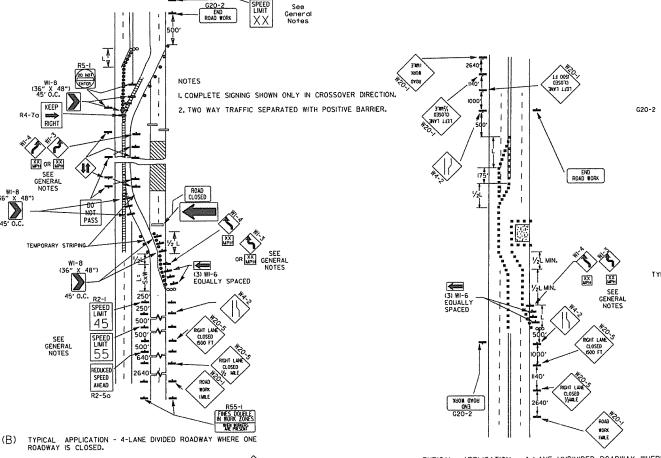
DETAIL OF RAISED PAVEMENT MARKERS

REFLECTOR 0.52"

TYPE III BARRICADE CHANNELIZING DEVICE

TRAFFIC DRUM





END ROAD WORK (OPTIONAL) TRUCK MOUNTED ATTENUATOR G20-2 ном паоя END

(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED. W20-7A

THAN 30MPH AND WI-3 WHEN 30MPH OR LESS.

2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-IS5) SHALL BE OMITTED AND THE R2-5A SHALL BE INSTALLED AT THAT LOCATION, ADDITIONAL R2-I45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS.

AT THE END OF THE WORK AREA A R2-IXXX) 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-I45) SHALL BE OMITTED. ADDITIONAL R2-I55MPH SPEED LIMIT SIGNS SHALL BE MSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-IXXX SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

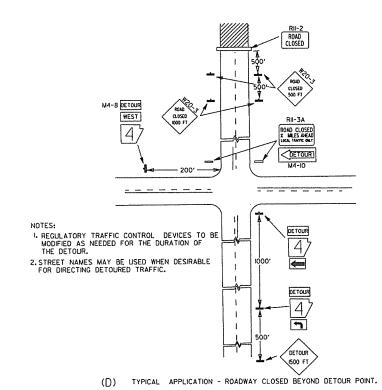
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL. IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.

5. WARNING LICHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.

6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE 6. PAYEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE. T. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY 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. 3-H-IO ADDED (AFAD) II-20-08 REVISED SIGN DESIGNATIONS
II-I8-04 ADDED GENERAL NOTE 10-18-96 ADDED R55-1 4-26-96 CORRECTED (a) BEHIND G20-2

9-12-13 REVISED DETAIL OF RAISED PAVEMENT MARKERS 6-8-95 CORRECTED SIGN IDENT. ON WI-4A 6-8-95 2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993
8-15-91 DRAWN AND PLACED IN USE
DATE REVISION REVISION

ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION STANDARD DRAWING TC-2

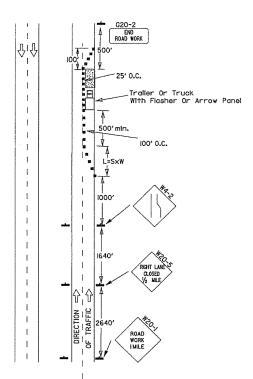


200' TO 300' CHANNELIZING DEVICES SEPARATE WORK AREA FROM TRAVELED WAY. 100, WYX ROAD WORK FND NOTES: FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED. 2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED. 3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC. 4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL, REFER TO MUTCD. WORK

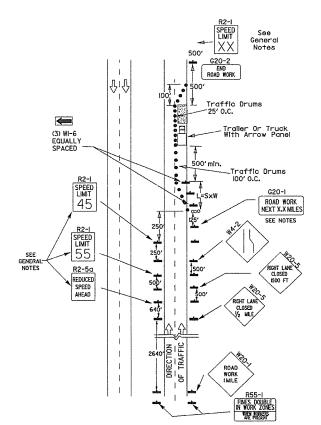
(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

Standard lane closure regulred

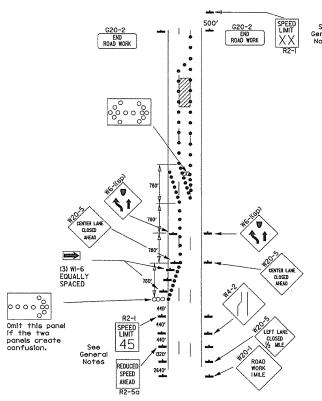
Channelizing devices



(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



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.

KEY.

OOO Arrow Panel (If Required)

- Channelizing Device
- Traffic drum

GENERAL NOTES:

- 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-K55) 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 limile intervals. At the end of the work area a R2-KXX) 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 omitted. Additional R2-I55mph speed limit signs shallbe installed at a maximum of limile intervals. At the end of the work area a R2-I(XX) shall be installed to match
- 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 (25' in advance of the job limit. Additional W20-I (MILE) signs are not required in advance of lane closures that begin inside the project limits.
- 8. Fiaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Fiags 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. Traller mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the traller. 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.

* When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be

CONES

VERTICAL PANEL

THO LANES CLOSED 1/2 MALE

PLASTIC DRUM |-4-18°C->-| min 8" to 12" 2' min TYPE IBARRICADE



TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

TRAFFIC CONTROL VERTICAL DIFFERENTIAL LOCATIONS W8-II Centerline, lane lines Edge of shoulder W8-9

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

Greater than 3" Edge of shoulder

 When shown on the plans concrete barrier will be used. the shoulder area is used as part of the traveled lane and there is insufficient

STANDARD DRAWING TC-3

width to place drums on the remaining shoulder width, then vertical panels shall be used.

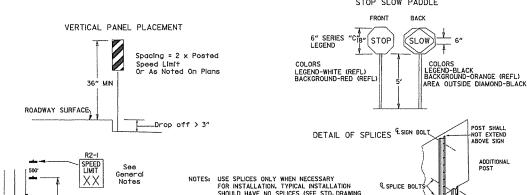
Lane lines

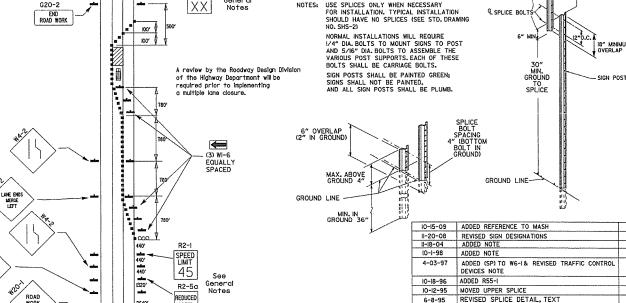


I" to 3"

I" to 3"

Greater than 3"





10-18-96 ADDED R55-1 M20' R2-5a iO-12-95 MOVED UPPER SPLICE 6-8-95 REVISED SPLICE DETAIL, TEXT Advisory speed to be determined at REDUCED SPEED AHEAD 6-8-95 2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993 8-15-91 DRAWN AND PLACED IN USE DATE REVISION ARKANSAS STATE HIGHWAY COMMISSION (D) Typical application - closing multiple lanes of a multilane highway. STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION