FAULKNER COUNTY

COATT

TO THE PROJECT

LOCATION

VICINITY MAP

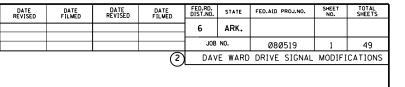
CENTRAL ARKANSAS REGIONAL TRANSPORTATION SYSTEM CONSTRUCTION PLANS

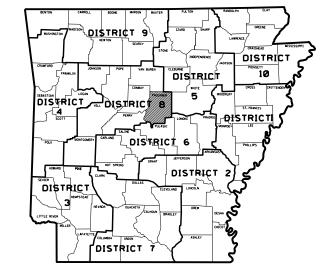
DAVE WARD DRIVE ASCT DETECTOR INSTALLATION (CONWAY) (S)

FAULKNER COUNTY

ROUTE 60 SECTION 0
ROUTE 65B SECTION 2
JOB 080519

NOT TO SCALE





· DESIGN TRAFFIC DATA·

ARKANSAS HIGHWAY DISTRICT 8

DESIGN YEAR





BEGIN JOB Ø8Ø519 HOGAN LANE	The state of the s
	END JOB 080519

PROJECT COORDINATES

BEGIN MID-POINT END

LATITUDE N 35° 04′ 15″ N 35° 05′ 35″ N 35° 03′ 59″

LONGITUDE W 92° 29′ 40″ W 92° 27′ 10″ W 92° 25′ 05″

LENGTH COMPUTED ALONG C.L. MEDIAN

GROSS LENGTH OF PROJECT 23,000 FEET OR 4.4 MILES

NET LENGTH OF ROADWAY 23,000 FEET OR 4.4 MILES

NET LENGTH OF BRIDGES 0.00 FEET OR 0.000 MILES

NET LENGTH OF PROJECT 23,000 FEET OR 4.4 MILES

P.E. JOB Ø8Ø519

INDEX OF SHEETS

SHEET NO.	TITLE	DRWG. NO.	DATE
1	 TITLE SHEET		
2	 INDEX OF SHEETS AND GOVERNING SPECIFICATIONS		
3	 GENERAL NOTES AND TRAFFIC SIGNAL NOTES		
4	 SUMMARY OF QUANTITIES		
5	 TRAFFIC SIGNAL QUANTITIES RECAP		
6	 SYSTEM MAP		
7	 HOGAN LN & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
8	 HOGAN LN & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
9	 HOGAN LN & DAVE WARD DR SIGNAL PLAN		
10	 HOGAN LN & DAVE WARD DR SIGNAL PLAN SHEET		
11	 COUNTRY CLUB RD/MATTISON RD & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
12	 COUNTRY CLUB RD/MATTISON RD & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
13	 COUNTRY CLUB RD/MATTISON RD & DAVE WARD DR SIGNAL PLAN		
14	 COUNTRY CLUB RD/MATTISON RD & DAVE WARD DR SIGNAL PLAN SHEET		
15	 SALEM RD & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
16	 SALEM RD & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		-
<u>-</u> 17	 SALEM RD & DAVE WARD DR SIGNAL PLAN		
18	 SALEM RD & DAVE WARD DR SIGNAL PLAN SHEET		
19	 FARRIS RD/NUTTER'S CHAPEL RD & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
20	 FARRIS RD/NUTTER'S CHAPEL RD & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
21	 FARRIS RD/NUTTER'S CHAPEL RD & DAVE WARD DR SIGNAL PLAN		
22	 FARRIS RD/NUTTER'S CHAPEL RD & DAVE WARD DR SIGNAL PLAN SHEET		
23	 DONAGHEY AVE & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
24	 DONAGHEY AVE & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
25	 DONAGHEY AVE & DAVE WARD DR SIGNAL PLAN		
26	 DONAGHEY AVE & DAVE WARD DR SIGNAL PLAN SHEET		
27	 S. GERMAN LN & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
28	 S. GERMAN LN & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
29	 S. GERMAN LN & DAVE WARD DR SIGNAL PLAN		
30	 S. GERMAN LN & DAVE WARD DR SIGNAL PLAN SHEET		
31	 EQUITY AVE & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
32	 EQUITY AVE & DAVE WARD DR ADAPTIVE DETECTION PEAN SHEET		_
33	 EQUITY AVE & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
34	 EQUITY AVE & DAVE WARD DR SIGNAL PLAN EQUITY AVE & DAVE WARD DR SIGNAL PLAN SHEET		
35	 EXCHANGE AVE & DAVE WARD DR SIGNAL PLAN SHEET		
36	 EXCHANGE AVE & DAVE WARD DR ADAPTIVE DETECTION PEAN SHEET		
37	 EXCHANGE AVE & DAVE WARD DR ADAPTIVE DETECTION DETAIL SHEET		
38	 EXCHANGE AVE & DAVE WARD DR SIGNAL PLAN EXCHANGE AVE & DAVE WARD DR SIGNAL PLAN SHEET		
38	 I-40 EB RAMP & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		<u> </u>
40	 I-40 EB RAMP & DAVE WARD DR ADAPTIVE DETECTION PLAN SHEET		
41	 I-40 EB RAMP & DAVE WARD DR SIGNAL PLAN SUFET		
42	 I-40 EB RAMP & DAVE WARD DR SIGNAL PLAN SHEET		
43	 ADAPTIVE DETECTOR DETAILS		
44	 DETECTOR POLE DETAILS		
45	 PTZ CAMERA INSTALLATION DETAILS	CD 44	11/10/20
46	 STEEL POLE WITH MAST ARM	SD-11	11/16/20
47	 STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	9/2/2015
48	 STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	9/2/2015
49	 STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	9/2/2015

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.	080519	2	49

(2) INDEX OF SHEETS AND COVERNING SPECIFICATIONS

GOVERNING SPECIFICATIONS

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

NUMBER	TITLE
ERRATA	 ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	 REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	 SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	 SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	 SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	 SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	 SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	 SUPPLEMENT - WAGE RATE DETERMINATION
100-4	 DEPARTMENT NAME CHANGE
108-1	 LIQUIDATED DAMAGES
JOB 080519	 GENERAL REQUIREMENTS
JOB 080519	 TRAFFIC SIGNAL MODIFICATION
JOB 080519	 DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 080519	 EDGE CARD VIDEO PROCESSOR
JOB 080519	 LED TRAFFIC SIGNAL HEAD
JOB 080519	 WIRELESS MAGNETIC DETECTION SYSTEM
JOB 080519	 DETECTOR POLE
JOB 080519	 REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
JOB 080519	 TRAFFIC SIGNAL TIMER UNIT WITH MMU
JOB 080519	 PAN-TILT-ZOOM (PTZ) CAMERA SYSTEM
JOB 080519	 E-NET CABLE



LOCATION: DAVE WARD DR. (HWY. 60, HWY. 65B)

CITY: CONWAY
COUNTY: FAULKNER

DISTRICT: 08 SCALE: N/A DRAWN BY: MCL

2. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND E.G.C. TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.

3. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAIN TIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHER HEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. IF THE SERVICE POINT IS OVER 10 FEET FROM THE CONTROLLER, THE CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE TWO CIRCUIT EXTERNAL BREAKER (SECONDARY BREAKER) ON OR NEAR THE TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL INSTALL CONDUIT, ELECTRICAL SERVICE WIRE (2c/#6 USE RATED, WITH GROUND TYPICAL), AND PERFORM WIRING TO TAP INTO THE CITY'S/COUNTY'S MAIN BREAKER AS PART OF THIS CONTRACT. CONDUIT IS PAID FOR AS A SEPARATE ITEM OF THIS CONTRACT. TWO CIRCUIT BREAKERS, CONSIDERED SUBSIDIARY TO THE CONTROL EQUIPMENT, ARE NEEDED WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2c/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT FROM THE CIRCUIT SERVING THE TRAFFIC SIGNAL CONTROL EQUIPMENT FROM THE POINT OF TIE-IN AT THE SECONDARY BREAKER PROVIDED BY THE CONTRACTOR.

4. CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.

5. TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.

6. CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.

7. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, STANDARD DRAWINGS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

8. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE STANDARD DRAWINGS MAY BE USED.

9. TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.

10. PAVEMENT MARKINGS SHOWN FOR REFERENCE ONLY. SEE PERMANENT PAVEMENT MARKING DETAILS.

11. FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENTS FOR SIGNAL HEAD CLEARANCE ABOVE ROADWAY ONLY AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY (SEE NOTES ON STANDARD DRAWING). PAYMENT WILL BE INCLUDED IN SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.

12. ALL CONCRETE PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE THREE (3") INCH DIAMETER UNLESS SPECIFIED ON PLANS.

13. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.

14. LUMINAIRE ASSEMBLIES SHALL BE OF THE FULL CUTOFF TYPE.

15. HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE. COMBINATION (COMB.) DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.

16. THE LOCAL RADIO WITH ANTENNA SHALL BE COMPATIBLE WITH THE EXISTING CLOSED LOOP COORDINATION SYSTEM IN THE CITY/COUNTY.

17. TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, THIRTY-EIGHT (38') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF TWENTY-ONE (21') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL SIX (6') FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR"AT LOCATIONS SHOWN ON THE SIGNAL PLANS.

18. THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS SIX (6') FEET. REFER TO TRAFFIC SIGNAL PLANS FOR SPECIFIC LOCATION OF POLES, CONTROLLER AND ANY OTHER NON-BREAKAWAY OBSTRUCTIONS. REFER TO "DESIGN PARAMETERS, MINIMUM CLEAR ZONE DISTANCE"FOR MINIMUM DISTANCE FROM THE EDGE OF TRAVELED WAY TO THE FACE OF A NON-BREAKAWAY POLE OR OBSTRUCTION. TRAFFIC SIGNAL POLES OR ANY OTHER NON-BREAKAWAY OBSTRUCTION SHALL NOT BE INSTALLED WITHIN THE CLEAR ZONE.

19. AS DETERMINED BY THE ENGINEER, FOUNDATION EMBEDMENT MAY BE DECREASED BY A MAXIMUM OF TWO FEET IF COMPETENT ROCK IS ENCOUNTERED PRIOR TO ACHIEVING PLAN EMBEDMENT AND AT LEAST HALF OF THE REMAINING PLAN EMBEDMENT LENGTH IS KEYED INTO COMPETENT ROCK.

20. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING. PAYMENT FOR TERMINAL STRIPS SHALL BE INCLUDED IN ITEM 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.

21. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.

22. ONE VIDEO PROGRAMMING MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE JOB.

23. TRAFFIC SIGNAL CONTRACTOR MUST NOTIFY RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO SIGNAL RELATED WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR NOTIFICATION.

24. ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION (2001) WITH 2003 AND 2006 INTERIMS.

25. DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL JUMPERS MAY REQUIRE MODIFICATION.

26. ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER SURGE PROTECTION.

27. TRAFFIC SIGNAL EQUIPMENT REMOVED FROM THE INTERSECTIONS SHALL BE THE PROPERTY OF THE CITY OF CONWAY. (SEE SPECIAL PROVISION).

28. NEW TRAFFIC SIGNAL CONTROLLERS AND MMU'S SHALL BE THE LATEST MODEL AND EQUIPPED WITH THE LATEST FIRMWARE AVAILABLE (MIN. 357B). CONTRACTOR IS RESPONSIBLE FOR DOWNLOADING ALL EXISTING TIMINGS INTO NEW CONTROLLERS PRIOR TO SWITCHING THEM OUT.

29. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE INITIALLY TO ADVISE CONTRACTOR AND ASSIST IN MARKING EXACT ROADWAY PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.

30. CONTRACTOR TO FURNISH REPEATERS AND ANY OTHER MATERIALS REQUIRED TO CONWAY CORPORATION FOR INSTALLATION ON CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES). CONWAY CORPORATION WILL PROVIDE THEIR OWN TRAFFIC CONTROL FOR THIS EQUIPMENT INSTALLATION. CONTRACTOR SHALL FURNISH MANUFACTURER'S REPRESENTATIVE TO BE ON SITE DURING CONWAY CORP INSTALLATION. SCHEDULING FOR ON SITE WORK SHALL BE DETERMINED BY ALL THREE PARTIES TOGETHER AND APPROVED BY THE ENGINEER PRIOR TO THE ASSOCIATED ON-STREET WORK.

CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.

31. PAY ITEM FOR DIGITAL RADIOS AND REPEATERS SHALL INCLUDE ALL MOUNTING BRACKETS AND HARDWARE REQUIRED. ANY EXTENSIONS AND MOUNTING BRACKETS REQUIRED TO PROVIDE CLEAR LINE OF SIGHT, AS SHOWN ON PLANS SHALL ALSO BE PART OF THAT PAY ITEM. WHERE REPEATERS AND DIGITAL RADIOS ARE SHOWN ON PLANS AT THE SAME LOCATION AND REQUIRE AN EXTENSION ARM, THE SAME EXTENSION ARM MAY BE USED TO MOUNT BOTH THE DIGITAL RADIO AND REPEATER.

32. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS AT SIX (6) INTERSECTIONS. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. AT THESE INTERSECTIONS, CONTROLLERS SHALL RUN IN COMPACT MODE. EXISTING LOAD BAYS ARE MODEL TF4212. USE EXISTING TRAFFIC SIGNAL CABLE FOR NEW FLASHING YELLOW ARROW SIGNAL INSTALLATION. CONTRACTOR SHALL ALSO RELOCATE EXISTING 3 SECTION SIGNAL HEADS ON EXCHANGE AVE. AND REPLACE WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS. INSTALLATION OF FLASHING YELLOW ARROWS WILL ALSO REQUIRE A CONTROLLER MODIFICATION. AT THIS INTERSECTION, THE CONTROLLER CABINET IS NEW 16 BAY CABINET. MODIFICATION TO INCLUDE ANYTHING REQUIRED TO OPERATE FYA ON EXCHANGE AVE. THIS INCLUDES, BUT IS NOT LIMITED TO, NEW LOAD SWITCHES, NEW VIDEO DETECTION ASSIGNMENTS AND ANY REWIRING THAT MAY BE REQUIRED IN THE CABINET. INSTALL NEW 7c/14 AWG TRAFFIC SIGNAL CABLE FOR NEW FLASHING YELLOW ARROW SIGNAL INSTALLATION.

33. CONTRACTOR TO INSTALL PTZ CAMERAS AT 4 INTERSECTIONS. ALL BRACKETS AND MOUNTING HARDWARE ARE PART OF THE BID ITEM FOR THE CAMERA. PTZ INSTALLATION AT I-40 RAMP REQUIRES AN EXTENSION TO MAST ARM SHAFT (SEPARATE PAY ITEM).

34. CONTRACTOR TO REPLACE EXISTING VANTAGE PLUS VIDEO DETECTION PROCESSING EQUIPMENT WITH NEW VIDEO PROCESSOR EDGE CARDS (2 CAMERA) AND NEW VIDEO EDGE CARD EXTENDER AT 2 INTERSECTIONS. NEW VEHICLE DETECTOR RACKS (16 CHANNEL) REQUIRED. EXISTING VIDEO DETECTION CAMERAS AND CABLING TO REMAIN IN PLACE.

35. ANY CLEARING AND GRUBBING REQUIRED TO PROVIDE CLEAR LINE OF SIGHT FOR REPEATER TO DIGITAL RADIO TO BE COST ABSORBED UNDER MOBILIZATION BID ITEM. PROBABLE LOCATIONS ARE NOTED ON PLANS.

36. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE ANY LANES OF TRAFFIC WEEKDAYS DURING THE HOURS OF 7:30 - 8:30 AM OR 4:30 - 6:00 PM. THE CONTRACTOR SHALL CHANGE OVER TO NEW CONTROLLER CABINET ONLY DURING OFF PEAK TRAFFIC TIMES AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY CITY 48 HOURS PRIOR TO INTERSECTION GOING DARK DURING CHANGE OUT. THE CONTRACTOR SHALL SCHEDULE WORK SO THAT CHANGE OVER FROM EXISTING CONTROLLER TO NEW CONTROLLER CAN BE PREFORMED EXPEDITIOUSLY. THE CONTRACTOR IS REQUIRED TO PROVIDE FOR MANUAL TRAFFIC CONTROL BY CONTRACTOR EMPLOYED OFF-DUTY LOCAL LAW ENFORCEMENT OFFICERS DURING THE TIME THE SIGNAL IS OUT OF OPERATION. (COST ABSORBED UNDER MAINTENANCE OF TRAFFIC).

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	202540	7	40
						080519	3	49
			(2)	GENER/	L NOTE	S AND TRAFFIC	SIGNA	L 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. THE CONTRACTOR SHALL CONTACT ALL FIBER OPTIC COMPANIES INVOLVED ON THIS PROJECT AT LEAST FIVE (5) WORKING DAYS BEFORE CONSTRUCTION, INCLUDING REMOVING AND INSTALLING ANY FENCING, AND TAKE EVERY PRECAUTION NECESSARY TO AVOID CONFLICT WITH THE FIBER OPTIC CABLES, THE CONTRACTORS SHALL TELEPHONE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-8998 TO DETERMINE THE LOCATION OF THE BURIED FIBER OPTIC CABLES.

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

PROJECT OVERVIEW

CITY OF CONWAY ARKANSAS PLANS TO INSTALL AN ADAPTIVE SIGNAL SYSTEM ALONG THE DAVE WARD DRIVE CORRIDOR FROM HOGAN LANE TO INTERSTATE 40 RAMP. THE CITY HAS SELECTED SIEMENS ADAPTIVE SOFTWARE TO INSTALL A SCOOT SYSTEM. THIS CONTRACT WILL INSTALL FIELD EQUIPMENT NEEDED FOR THE SYSTEM TO OPERATE. INCLUDED IS THE REPLACEMENT OF THE CONTROLLER AND MMU AND INSTALLATION OF DETECTION EQUIPMENT TO PROVIDE INFORMATION TO THE SOFTWARE AT 9 INTERSECTIONS, INSTALLATIONS/CONTROLLER MODIFICATIONS OF FLASHING YELLOW ARROW SIGNAL HEADS AT 6 INTERSECTIONS, INSTALLATION OF PTZ CAMERAS TO MONITOR CORRIDOR AT 4 INTERSECTIONS, AND REPLACEMENT OF VIDEO PROCESSOR CARDS AT 2 INTERSECTIONS.



LOCATION: DAVE WARD DR. (HWY. 60, HWY. 65B)
CITY: CONWAY
COUNTY: FAULKNER
DISTRICT: 08 SCALE: N/A DRAWN BY: MCL

REVISION BOX

DATE ITEM SHEET NUMBER			
	DATE	ITEM	SHEET NUMBER

- ANY CLEARING AND GRUBBING REQUIRED TO BE COST ABSORBED UNDER MOBILIZATION BID ITEM. SEE NOTE 35, SHEET NO. 3.
- THIS PAY ITEM IS INTENDED TO INCLUDE ALL TRAFFIC CONTROL DEVICES NEEDED TO MAINTAIN TRAFFIC, INCLUDING DRUMS, CONES, SIGNS, BARRICADES, ARROW BOARDS, AND CONCRETE BARRIERS. THE CONTRACTOR IS REQUIRED TO PROVIDE FOR MANUAL TRAFFIC CONTROL BY CONTRACTOR EMPLOYED OFF-DUTY LOCAL LAW ENFORCEMENT OFFICERS DURING THE TIME THE SIGNAL IS OUT OF OPERATION. SEE NOTES 31 & 36, SHEET NO. 3.
- (3) SEE NOTE 28, SHEET NO. 3.
- 3C TRAFFIC SIGNAL CABLE TO BE USED FOR POWER TO PTZ CAMERA. 7C TRAFFIC SIGNAL CABLE IS FOR FYA HEADS @ EXCHANGE AVENUE.
- (5) CONTRACTOR TO REPLACE EXISTING VANTAGE PLUS VIDEO DETECTION PROCESSING EQUIPMENT WITH NEW EDGE 2 CAMERA CARD PROCESSORS AND EXTENDER. NEW 16 CHANNEL VEHICLE DETECTOR RACKS REQUIRED. SEE NOTE 34, SHEET NO. 3.
- 6 CONTROLLER MODIFICATION REQUIRED FOR FYA INSTALLATIONS. SEE NOTE 32, SHEET NO. 3.
- 7 SEE NOTES 29 31, SHEET NO. 3.
- 8 SIGNAL EQUIPMENT REMOVED FROM THE INTERSECTIONS SHALL BE THE PROPERTY OF THE CITY OF CONWAY. (SEE SPECIAL PROVISION).

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						080519	4	49

SUMMARY OF QUANTITIES & REVISIONS

ARKANSAS ARKANSAS REGIŜTË KED PROFINE PROFINE NO. 8861 NO. 8861

SUMMARY OF QUANTITIES

P	NO.	PAY ITEM	UNIT	TOTAL
\bigcirc	601	MOBILIZATION	LS	1.00
2	603	MAINTENANCE OF TRAFFIC	LS	1.00
3 s	SP & 701	TRAFFIC TIMER UNIT w. MMU	EA	9
S	SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	EA	18
4	708	TRAFFIC SIGNAL CABLE (3C/14 A.W.G.)	LF	1150
4	708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	LF	120
(5) s	SP & 733	VIDEO PROCESSOR EDGE CARD (2 CAMERA)	EA	5
(5) s	SP & 733	VIDEO EDGE CARD EXTENDER	EA	1
(S) S	SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	EA	2
6	SP & 714	TRAFFIC SIGNAL MODIFICATION	EA	6
7	SP	FLUSH MOUNT ROADWAY SENSOR	EA	99
7	SP	WIRELESS REPEATER (SINGLE)	EA	41
⑦ <u> </u>	SP	WIRELESS REPEATER (DUAL) (STANDARD EXTERNAL ANTENNA)	EA	6
7	SP	WIRELESS REPEATER (DUAL) (LONG RANGE EXTERNAL ANTENNA)	EA	7
	SP	CONTROL MODULE	EA	9
	SP	SDLC INTERFACE	EA	11
	SP	ISOLATOR	EA	9
	SP	DIGITAL RADIO	EA	18
S	SP & 701	E-NET CABLE (EXTERIOR CAT 5E)	LF	4650
	SP	DETECTOR POLE, FIBERGLASS, DIRECT BURY, 24'	EA	2
	SP	PTZ CAMERA	EA	4
	SP	TRAFFIC SIGNAL EQUIPMENT POLE SHAFT EXTENSION, 10-FOOT, VIDEO CAMERA MOUNT	EA	1
	SP	RELOCATION OF TRAFFIC SIGNAL HEAD	EA	2
8	SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1.00

DATE: 11/1/17 FILE NAME: SQ

LOCATION: DAVE WARD DR. (HWY. 60, HWY. 65B)
CITY: CONWAY

COUNTY: CONWAY

COUNTY: FAULKNER

DISTRICT: 08 SCALE

SCALE: N/A DRAWN BY: MT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						080519	5	49

2 TRAFFIC SIGNAL QUANTITIES RECAP



TRAFFIC SIGNAL QUANTITIES RECAP

PAY				į.	STIMATED (QUANTITIES -	CONWAY A	DAPATIVE SIG	NAL SYSTEM	1		
ITEM	PAY ITEM	UNIT	DAVE WARD DRIVE									TOTAL
NO.			HOGAN LANE	COUNTRY CLUB RD	SALEM RD	FARRIS RD	DONAGHEY AVE	GERMAN LANE	EQUITY AVE	EXCHANGE AVE	I-40 EB RAMP	
601	MOBILIZATION	LS	0.08	0.08	0.12	0.14	0.12	0.12	0.14	0.12	0.08	1.00
603	MAINTENANCE OF TRAFFIC	LS	0.08	0.08	0.12	0.14	0.12	0.12	0.14	0.12	0.08	1.00
SP & 701	TRAFFIC TIMER UNIT w. MMU	EA	1	1	1	1	1	1	1	1	1	9
SP&706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	EA	0	0	4	4	2	4	2	2	0	18
708	TRAFFIC SIGNAL CABLE (3C/14 A.W.G.)	LF	350	0	375	0	250	0	0	0	175	1150
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	LF	0	0	0	0	0	0	0	120	0	120
SP & 733	VIDEO PROCESSOR EDGE CARD (2 CAMERA)	EA	0	0	0	3	0	0	2	0	0	5
SP & 733	VIDEO EDGE CARD EXTENDER	EA	0	0	0	1	0	0	0	0	0	1
SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	EA	0	0	0	1	0	0	1	0	0	2
SP	TRAFFIC SIGNAL MODIFICATION	EA	0	0	1	1	1	1	1	1	0	6
SP	FLUSH MOUNT ROADWAY SENSOR	EA	11	8	10	10	14	12	10	11	13	99
SP	WIRELESS REPEATER (SINGLE)	EA	6	4	6	5	4	4	6	4	2	41
SP	WIRELESS REPEATER (DUAL) (STANDARD EXTERNAL ANTENNA)	EA	1	0	0	0	0	0	0	2	3	6
SP	WIRELESS REPEATER (DUAL) (LONG RANGE EXTERNAL ANTENNA)	EA	1	2	0	0	2	2	0	0	0	7
SP	CONTROL MODULE	EA	1	1	1	1	1	1	1	1	1	9
SP	SDLC INTERFACE	EA	1	1	1	2	1	1	2	1	1	11
SP	ISOLATOR	EA	1	1	1	1	1	1	1	1	1	9
SP	DIGITAL RADIO	EA	2	2	2	2	2	2	2	2	2	18
SP	E-NET CABLE (EXTERIOR CAT 5E)	LF	650	325	850	500	725	525	325	375	375	4650
SP	DETECTOR POLE, FIBERGLASS, DIRECT BURY, 24'	EA	0	0	1	0	0	0	1	0	0	2
SP	PTZ CAMERA	EA	1	0	1	0	1	0	0	0	1	4
SP	TRAFFIC SIGNAL EQUIPMENT POLE SHAFT EXTENSION, 10-FOOT, VIDEO CAMERA MOUNT	EA	0	0	0	0	0	0	0	0	1	1
SP	RELOCATION OF TRAFFIC SIGNAL HEAD	EA	0	0	0	0	0	0	0	2	0	2
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	0.08	0.08	0.12	0.14	0.12	0.12	0.14	0.12	0.08	1.00

LOCATION: DAVE WARD DR. (HWY. 60, HWY. 65B)

CITY: CONWAY COUNTY: FAULKNER

DISTRICT: Ø8 SCALE: N/A

SPEED CCTV LIMIT SPEED LIMIT SPEED SPEED SPEED LIMIT LIMIT LIMIT 60 SPEED LIMIT Brumley

HOGAN LN

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND MMU.
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. INSTALL PTZ CAMERA FOR MONITORING CORRIDOR.

LEGEND



SIGNALIZED INTERSECTION







INTERSECTION w FLASHING YELLOW ARROW MODIFICATION



SALEM RD

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND MMU.
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. INSTALL PTZ CAMERA FOR MONITORING CORRIDOR.
- 5. REPLACE EXISTING 5 SECTION SIGNAL HEADS WITH FLASHING YELLOW ARROW SIGNAL HEADS AND ASSOCIATED CONTROLLER MODIFICATIONS.

- 1. INTERSECTION TO BECOME PART
- 2. REPLACE EXISTING CONTROLLER AND MMU.
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.

DONAGHEY AVE

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. INSTALL PTZ CAMERA FOR MONITORING CORRIDOR.
- 5. REPLACE EXISTING 5 SECTION SIGNAL HEADS WITH FLASHING YELLOW ARROW SIGNAL HEADS AND ASSOCIATED CONTROLLER MODIFICATIONS.

FARRIS RD

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND MMU.
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. REPLACE EXISTING 5 SECTION SIGNAL HEADS WITH FLASHING YELLOW ARROW SIGNAL HEADS AND ASSOCIATED CONTROLLER MODIFICATIONS.
- EQUIPMENT.

S GERMAN LN

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. REPLACE EXISTING 5 SECTION SIGNAL HEADS WITH FLASHING YELLOW ARROW SIGNAL HEADS AND ASSOCIATED CONTROLLER MODIFICATIONS.

CORRIDOR.

ADAPTIVE INFO.

EQUIPMENT.

EQUITY AVE

1. INTERSECTION TO BECOME PART OF ADAPTIVE

2. REPLACE EXISTING CONTROLLER AND MMU.

3. INSTALL WIRELESS DETECTION SYSTEM FOR

4. REPLACE EXISTING 5 SECTION SIGNAL HEADS

5. REPLACE VIDEO DETECTION PROCESSING

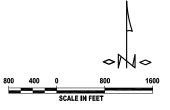
AND ASSOCIATED CONTROLLER MODIFICATIONS.

EXCHANGE AVE

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND MMU.
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. INSTALL FLASHING YELLOW ARROW SIGNAL HEADS FOR EXCHANGE AVE. AND ASSOCIATED DETECTOR AND CONTROLLER MODIFICATIONS (SWITCH TO 8 PHASE OPERATION).

I-40 EB RAMP

- 1. INTERSECTION TO BECOME PART OF ADAPTIVE CORRIDOR.
- 2. REPLACE EXISTING CONTROLLER AND MMU.
- 3. INSTALL WIRELESS DETECTION SYSTEM FOR ADAPTIVE INFO.
- 4. INSTALL PTZ CAMERA FOR MONITORING CORRIDOR.



DATE: 09/17/15 FILE NAME: SYSTEM

WITH FLASHING YELLOW ARROW SIGNAL HEADS LOCATION: CI TY: COUNTY:

DI STRI CT:

DAVE WARD DRIVE : HOGAN LANE TO I-40

CONWAY

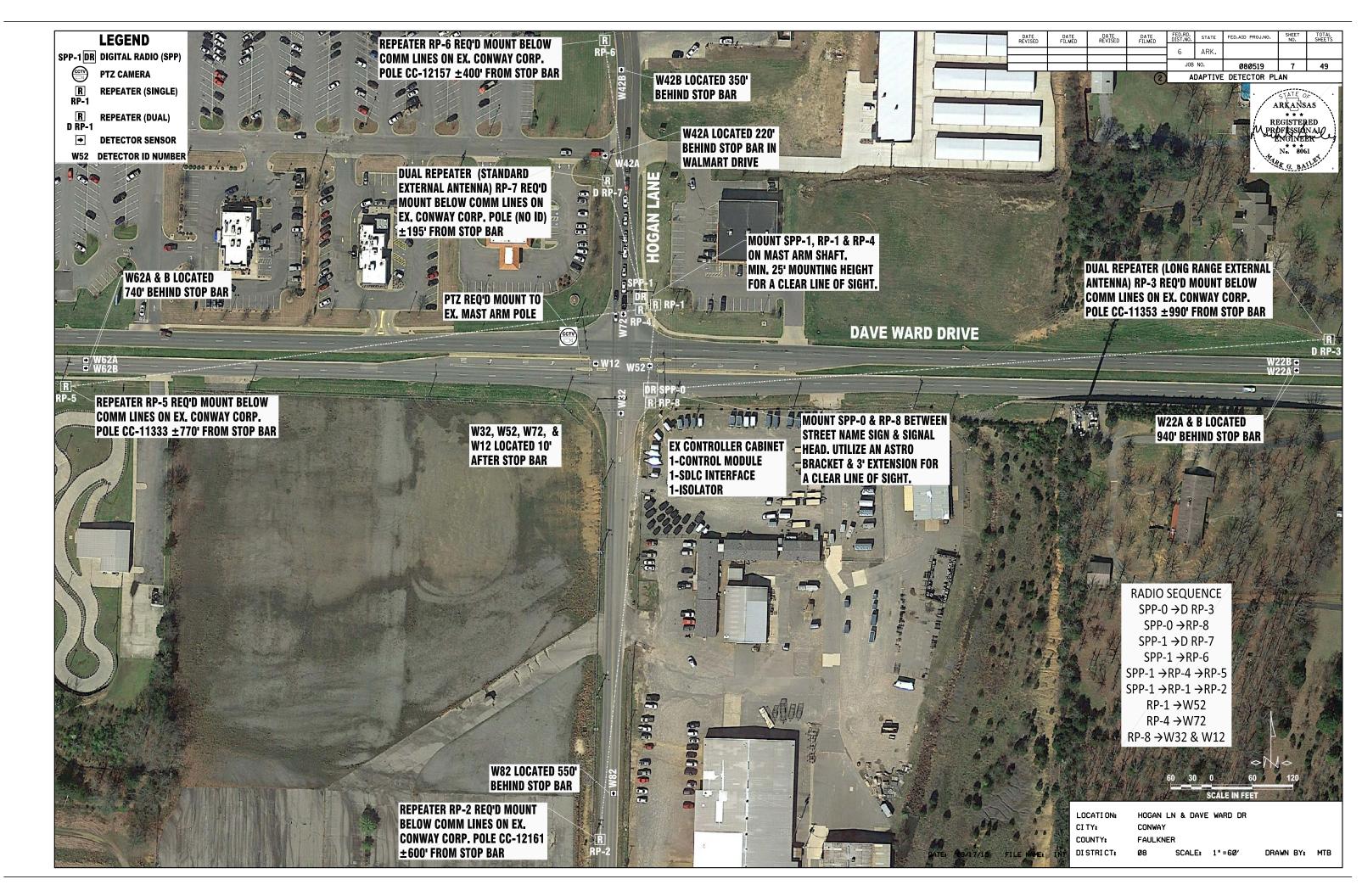
SCALE: 1"=800'

SIGNALIZED

POSTED SPEED LIMIT

COUNTRY CLUB RD

- OF ADAPTIVE CORRIDOR.
- 5. REPLACE VIDEO DETECTION PROCESSING



	DETECTOR AS	SSIGNMENTS					
DETECTOR .D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS		
W32	NB LT	FILTER	17	RP-8 > SPP-0	AFTER STOP BAR SENSOR		
W82	NB ADV	NORMAL	18	RP-2 > RP-1 > SPP-1	ADVANCE SENSOR		
W52	WB LT	FILTER	19	RP-1 > SPP-1	AFTER STOP BAR SENSOR		
W22A *	WB ADV	NORMAL	20	D RP-3 > SPP-0	ADVANCE SENSOR		
W22B *	WB ADV	NORMAL	21	D RP-3 > SPP-0	ADVANCE SENSOR		
W72	SB LT	FILTER	22	RP-4 > SPP-1	AFTER STOP BAR SENSOR		
W42A *	SB ADV	NORMAL	23	D RP-7 > SPP-1	ADVANCE SENSOR		
W42B	SB ADV	NORMAL	24	RP-6 > SPP-1	ADVANCE SENSOR		
W12	EB LT	FILTER	25	RP-8 > SPP-0	AFTER STOP BAR SENSOR		
W62A	EB ADV	NORMAL	26	RP-5 > RP-4 > SPP-1	ADVANCE SENSOR		
W62B	EB ADV	NORMAL	27	RP-5 > RP-4 > SPP-1	ADVANCE SENSOR		

INTERSECTION NOTES

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO INSTALL NEW PTZ CAMERA ON EXISTING NORTHWEST MAST ARM POLE LUMINAIRE ARM. CAMERA POWER AND SURGE PROTECTION DEVICES TO BE INSTALLED IN CONTROLLER CABINET.
- 4. CONTRACTOR SHALL FIELD VERIFY CAMERA SITE LOCATION AND ORIENTATION TO PROVIDE BEST COMPLETE COVERAGE OF ROADWAY PRIOR TO INSTALLING CAMERAS. LOCATIONS AND ORIENTATIONS TO BE APPROVED BY THE PROJECT ENGINEER. NO EXTRA PAY WILL BE ALLOWED IF CAMERA LOCATION MOVES TO DIFFERENT POLE.
- 5. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.



UTILITY POLE CC-12157



UTILITY POLE CC-11333



PTZ MAST ARM POLE

DATE REVISED DATE REVISED DATE FILMED FILMED FILMED FILMED FILMED DATE FILMED FI

INTERSECTION PICTURES



UTILITY POLE (NO ID)
AT WALMART DRIVE



UTILITY POLE CC-12161

NOTE:
CONTRACTOR TO FURNISH REPEATERS TO
CONWAY CORP FOR INSTALLATION ON CONWAY
CORP OWNED UTILITY POLES (CC DESIGNATIONS
IN MOST CASES). CONTRACTOR SHALL INSTALL
REPEATERS, DIGITAL RADIOS, AND ANY OTHER
EQUIPMENT REQUIRED ON MAST ARM POLES
AND STREET LIGHT ONLY POLES.





ADAPTIVE DETECTOR DETAIL

UTILITY POLE CC-11353



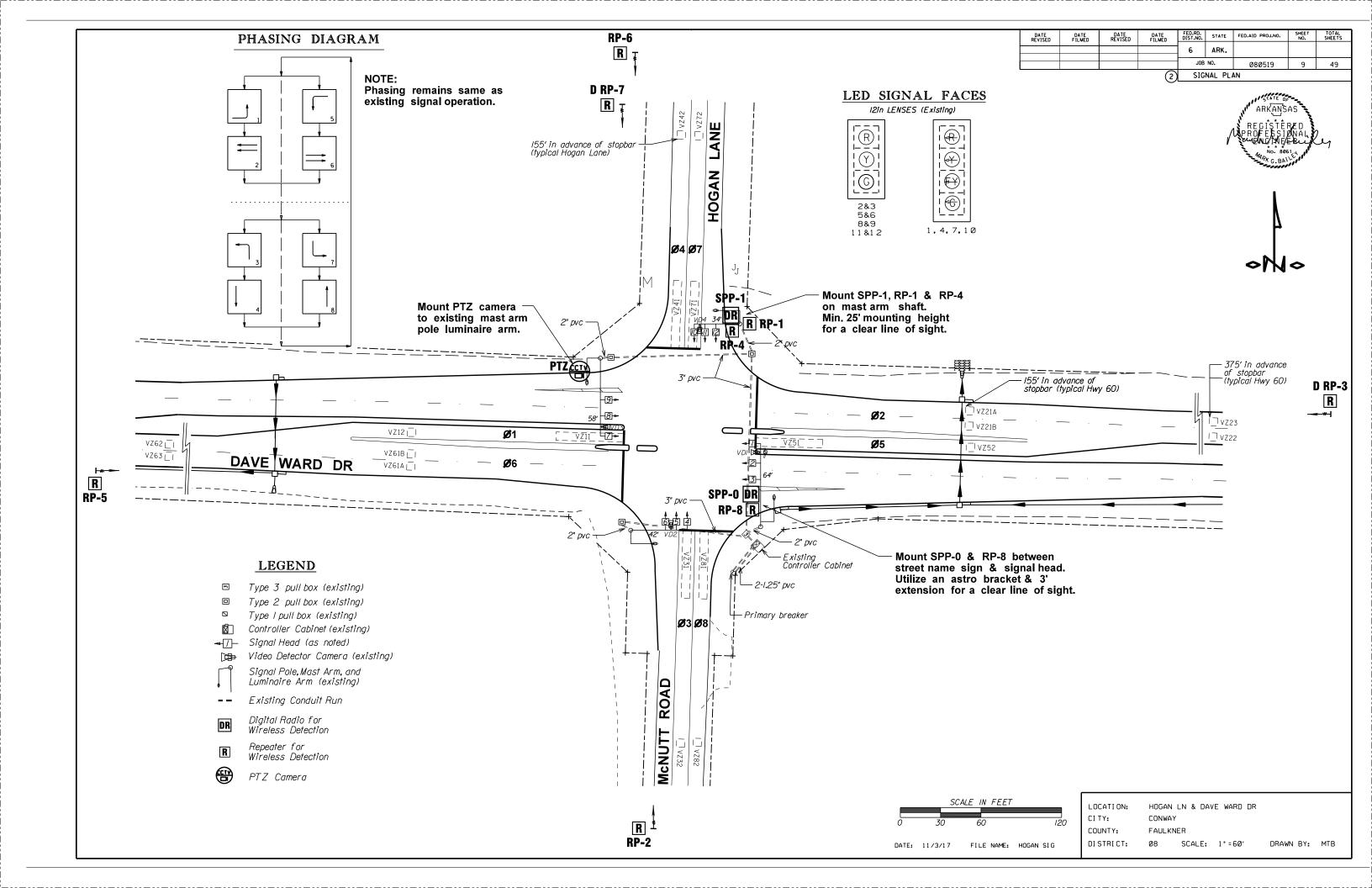
CONTROLLER CABINET

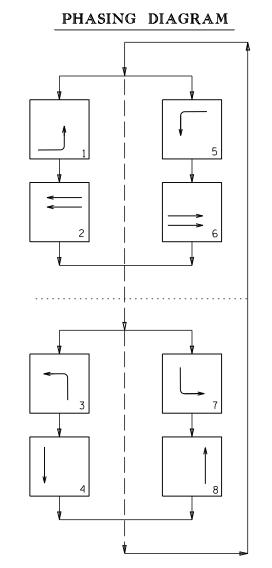
DATE: 09/17/15 FILE NAME: DHL

LOCATION: HOGAN LN & DAVE WARD DR
CITY: CONWAY

COUNTY: FAULKNER

DI STRI CT: Ø8 SCALE: N/A DRAWN BY: MTB

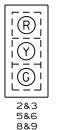




Phasing remains same as existing signal operation.

LED SIGNAL FACES

I2în LENSES (Existing)



Conway-Dave Ward Dr(Hwy.60)/ (Hogan Lane)

DETECTOR ASSIGNMENTS

EB LEFT TURN LOCAL

EB LEFT TURN FAR COMB.

WB OUTSIDE NEAR LOCAL

WB INSIDE NEAR LOCAL

NB LEFT TURN FAR COMB.

WB LEFT TURN FAR COMB.

EBOUTSIDE NEAR LOCAL

EB OUTSIDE FAR COMB.

EB INSIDE FAR LOCAL

SB LEFT TURN LOCAL

SB LEFT TURN FAR COMB.

HOGAN S. LEG PED.

LOCAL

COMB.

LOCAL

COMB

PED.

DET. ID # LOCATION DIRECTION TYPE

Vz22 WB INSIDE FAR COMB

WB OUTSIDE FAR

NB LEFT TURN

SB NEAR

SB ADVANCE

WB LEFT TURN

Vz61 B EB INSIDE NEAR LOCAL

NB NEAR

NB ADVANCE

HOGAN N. LEG

PB4 A&B DAVE WARD W. LEG PED.

PB8 A&B DAVE WARD E. LEG PED.

Vz12

Vz21 A

Vz31

Vz32

Vz41

Vz42

Vz51

Vz52

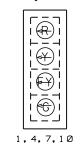
VZ62

Vz63

Vz72 Vz81

Vz82

11&12



WIRING DIAGRAM

NOT TO SCALE

FED.RD. DIST.NO. STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS DATE REVISED DATE FILMED DATE REVISED DATE FILMED 6 ARK. JOB NO. 080519 10 49

I-video cable (typical for video detector camera) 1-Video Cable (PTZ Camera) 1-CAT 5 (Digital Radio) I-5c,I-2c*I2, I-video cable,I-20c I-5c,I-2c*I2,I-video cable,I-20c 2-5c, 2-2c*12, 2-video cable, 2-20c (1) 1-Video Cable 1-Video Cable 1-CAT 5 (Digital Radio) (PTZ Camera) (PTZ Camera) 1-Video Cable (PTZ Camera) I-2c*I2 (typical -for luminaire VD3 L7-I-7c (typical for 4 — VDI section head) 2-5c,2-2c*12,2-video cable,2-20c — **-**3 DR - I-5c,I-2c*I2,I-video cable,I-20c I-5c,I-2c*I2,I-video cable,I-20c -2-CAT 5 (Digital Radio) -1-Video Cable (PTZ Camera) DETECTOR CHART

TUBE

23"

37"

37"

37"

37"

23"

37"

37"

COMMENTS

CAMERA V1

CAMERA V

CAMERA V3

CAMERA V3

CAMERA V3

CAMERA V3

CAMERA V4

CAMERA V4

CAMERA V2

CAMERA V2

CAMERA V3

CAMERA V

CAMERA V

CAMERA V1

CAMERA V1

CAMERA V1

CAMERA V2

CAMERA V2

CAMERA V4

		Signal Pole,Mast Ar Luminaire Arm (exi
— I-5c, I-2c*12, I-video cable, I-20c		Existing Conduit Ru
1-CAT 5 (Digital Primary Breaker Radio)	DR	Digital Radio for Wireless Detection
Service Point Coax Cable in seperate conduit	R	Repeater for Wireless Detection

All wiring is existing except for CAT 5 (Digital Radio) and Video Cable (1-CAT 5 + 1-3C/14 A.W.G for PTZ Camera) shown in bold.

DATE: 11/3/17 FILE NAME: HOGAN SIG

SIGNAL PLAN SHEET

- **LEGEND** Type 3 pull box (existing)
- Type 2 pull box (existing)
- Type I pull box (existing)
- Controller Cabinet (existing)
- Signal Head (as noted) ◄ //-
- Video Detector Camera (existing)
- Pole, Mast Arm, and
- ire Arm (existing) ng Conduit Run
- Radio for
- er for
- ss Detection



INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	< 6		< 6	•	≪FY	***	<fy< del=""></fy<>	•••	<r< del=""></r<>	≪R	≪R	<r< del=""></r<>	≪R	≪R	<r< del=""></r<>	<r< del=""></r<>	≪R
2&3	R	R	G	••	R	R	G	**	R	R	R	R	R	R	R	R	R
4	≪R	≪R	≪R	≪R	≪R	≪R	≪R	≪R	< 6	*	<fy< del=""></fy<>	***	< 6	*	<f< del="">Y</f<>	***	
5&6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	••	R
7	<6	*	≪F¥	***	▼6	•	≪F¥	***	≺R	≺R	≺R	≺R	≺R	≺R	≪R	≺R	
8&9	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
10	≪R	≪R	≪R	≪R	√ R	≪R	≪R	≪R	< 6	*	√ 6	*	<fy< del=""></fy<>	***	≪FY	***	
11&12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R

- 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

CONTROLLER INPUT ABBREVIATIONS:

- V = VEHICLE INPUT
- D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM INPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE

DETECTOR SYSTEM DESCRIPTION: JOB 080519

V1

V9(D1)

V2

V10(D2) 2

V2

V3

V11(D3)

V4

V5

V13(D5)

V12(D4) 4

V14(D6) 6

V15(D7) 7

V16(D8)

P4

P6 6

8

P3 6

PROGRAM ASSIGNMENTS

LOCAL

PHS

SYSTEM

DET.#

MASTER SYSTEM

DETECTOR

NUMBERS

HARDWARE INPUTS

BY SUPPLIER

CAB. AMP CON.

TRM.# CHN.# IMP.#

DET.#

"AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

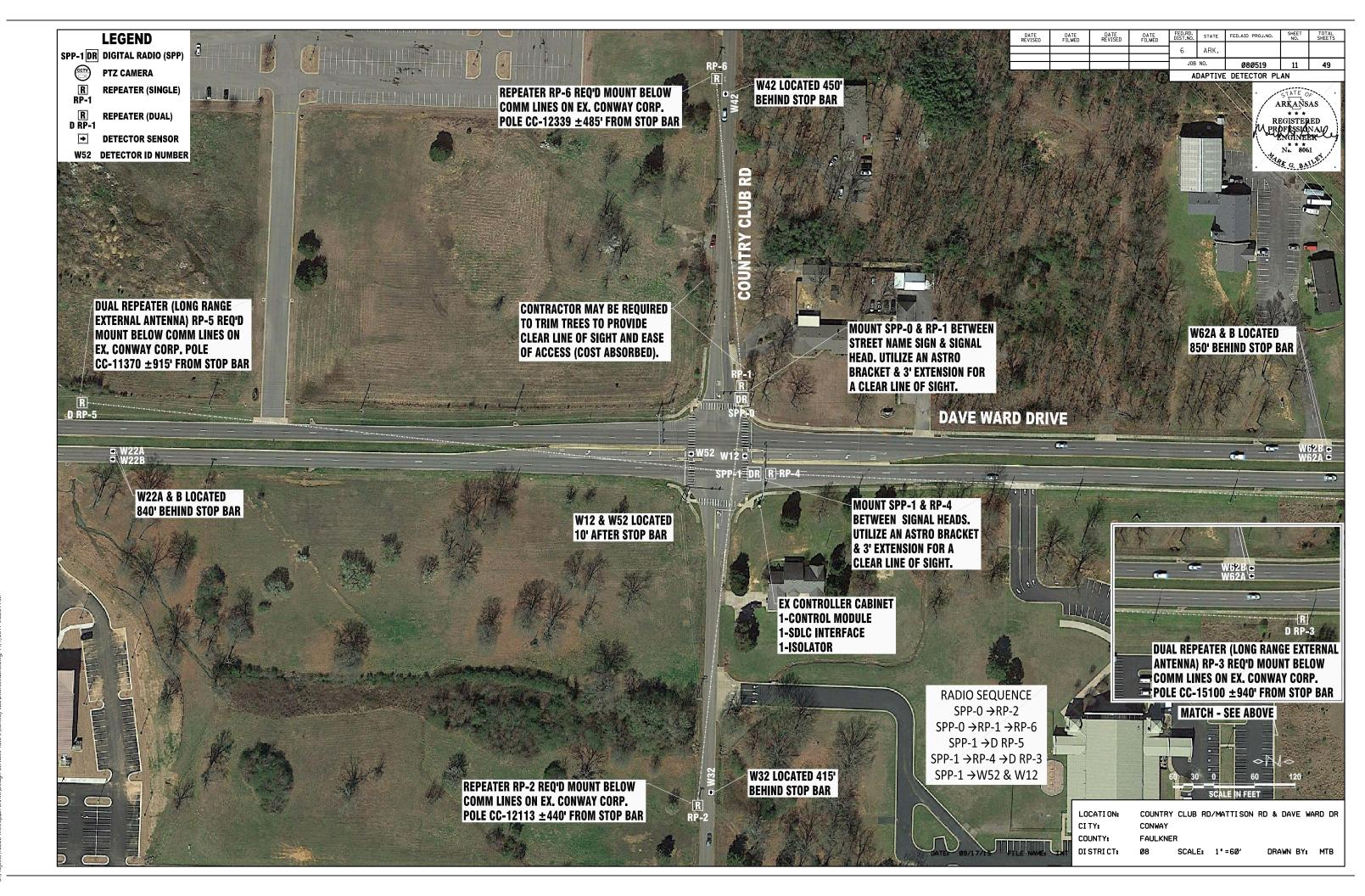
CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

LOCATION: HOGAN LN & DAVE WARD DR

CITY: CONWAY COUNTY: FAULKNER

DISTRICT: 08

SCALE: N/A DRAWN BY: MTB



CAProjects/12286-Metronlan | RArk/ Design Services Task 3/conway cad/intersections dwg 11/7/2017 9/08/01 Al

	DETECTOR A	SSIGNMENTS		DADIO OFOUENOS	
DETECTOR I.D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS
W32	NB ADV	NORMAL	17	RP-2 > SPP-0	ADVANCE SENSOR
W12	WB LT	FILTER	18	SPP-1	AFTER STOP BAR SENSOR
W62A *	WB ADV	NORMAL	19	D RP-3 > RP-4 > SPP-1	ADVANCE SENSOR
W62B *	WB ADV	NORMAL	20	D RP-3 > RP-4 > SPP-1	ADVANCE SENSOR
W42	SB ADV	NORMAL	21	RP-6 > RP-1 > SPP-0	ADVANCE SENSOR
W52	EB LT	FILTER	22	SPP-1	AFTER STOP BAR SENSOR
W22A *	EB ADV	NORMAL	23	D RP-5 > SPP-1	ADVANCE SENSOR
W22B *	EB ADV	NORMAL	24	D RP-5 > SPP-1	ADVANCE SENSOR
Detectors ar	e wireless ve	hicle detecto	or sensors.		
All detectors	use BIU 2.				
* Uses dual	repeater.				

UTILITY POLE CC-11370

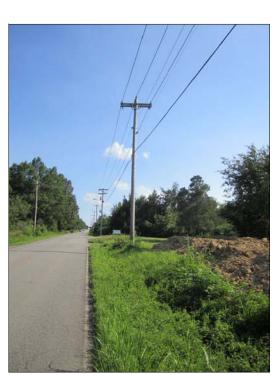
NOTE:
CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON
CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES).
CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER
EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.

DATE REVISED PILMED DATE REVISED DATE FILMED DIST.NO. STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS 6 ARK. JOB NO. Ø8Ø519 12 49

INTERSECTION PICTURES



UTILITY POLE CC-12339



UTILITY POLE CC-12113



ADAPTIVE DETECTOR DETAIL



UTILITY POLE CC-15100

DATE: 09/17/15 FILE NAME: DCC

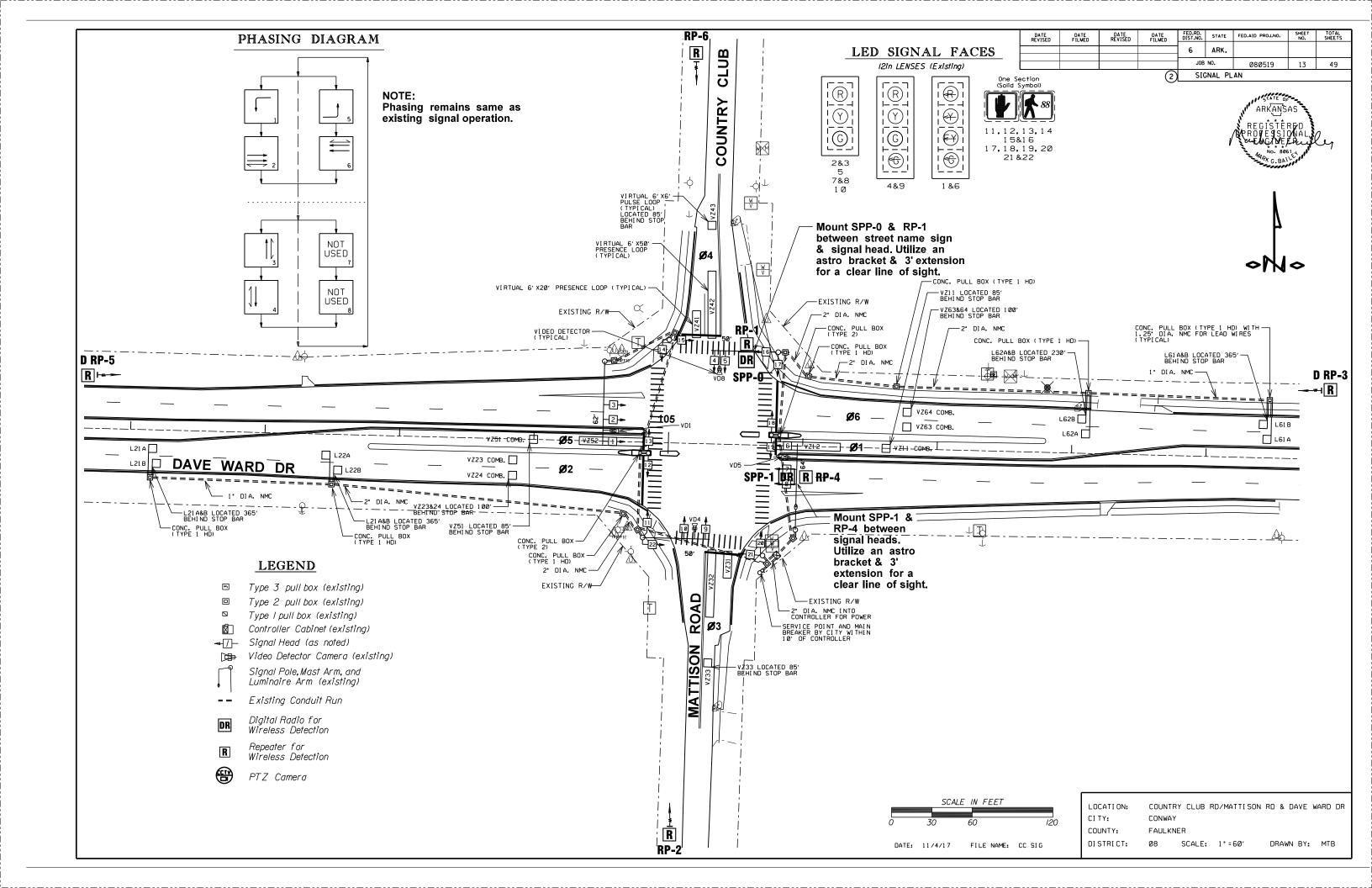
LOCATION: COUNTRY CLUB RD/MATTISON RD & DAVE WARD DR CITY: CONWAY

COUNTY: FAULKNER

DI STRI CT: Ø8 SCALE: N/A DRAWN BY: MTB

INTERSECTION NOTES

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.
- 4. CONTRACTOR MAY BE REQUIRED TO TRIM TREES AROUND INTERSECTION AND SIDE STREET TO PROVIDE CLEAR LINE OF SIGHT. (COST ABSORBED).



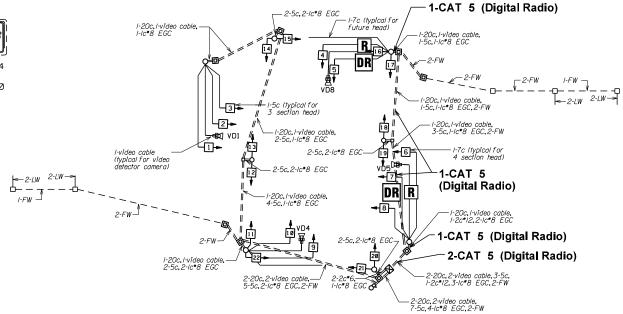
PHASING DIAGRAM NOT USED NOT USED

Phasing remains same as existing signal operation.

LED SIGNAL FACES WIRING DIAGRAM I2în LENSES (Existing) NOT TO SCALE

(R) (Y) (G) (G) (G) 17,18,19,20 21 & 22 1 & 6

2&3 5 7&8 1 Ø



NOTE: All wiring is existing except for CAT 5 (Digital Radio) shown in bold.

FED.RD. DIST.NO. STATE SHEET TOTAL SHEETS DATE FILMED DATE REVISED DATE FILMED 6 ARK. JOB NO. 080519 14 49 SIGNAL PLAN SHEET

DATE REVISED

LEGEND

Type 3 pull box (existing)

Type 2 pull box (existing)

Type I pull box (existing)

Controller Cabinet (existing) Signal Head (as noted)

◄//-Video Detector Camera (existing)

Signal Pole, Mast Arm, and

Luminaire Arm (existing)

Existing Conduit Run

Digital Radio for Wireless Detection

Repeater for Wireless Detection

PTZ Camera

DETECTOR CHART

				ECTOR S	YSTEM D	ESCRIP1	ION: JOE	080519			
Conv	vay-Dave Ward Dr(Hwy.60)/		lub	HARD	WARE IN	IPUTS	Р	ROGRAM AS	SSIGNMENTS		
	DETECTOR ASSIGNME	NTS		BY	SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB.	AMP	CON.	PHS	SYSTEM	DETECTOR	COMMENTS	LENGTHS
			DET.	TRM.#	CHN.#	MP.#		DET.#	NUMBERS		
Vz11	WB LEFT TURN FAR	COMB.				V9(D1)	1	1		CAMERA V1	23"
Vz12	WB LEFT TURN NEAR	LOCAL				V1	1			CAMERA V1	23"
L21 A&B	EB FAR	LOCAL				V2	2				
L22 A&B	EB MID	LOCAL				V2	2				37"
Vz23	EB INSIDE NEAR	COMB.				V10(D2)	2	2		CAMERA V5	37"
Vz24	EB OUTSIDE NEAR	COMB.				V15(D7)	2	7		CAMERA V5	
Vz31	NB THRU RIGHT NEAR	LOCAL				V8	3			CAMERA V8	37"
Vz32	NB LEFT TURN NEAR	LOCAL				V3	3			CAMERA V8	37"
Vz33	NB FAR	SYS				V11(D3)		3		CAMERA V8	
Vz41	SB THRU RIGHT NEAR	LOCAL				V4	4			CAMERA V4	23"
Vz42	SB LEFT TURN NEAR	LOCAL				V7	4			CAMERA V4	37"
Vz33	SB FAR	SYS				V12(D4)		4		CAMERA V3	
								_			
Vz51	EB LEFT TURN FAR	SYS				V13(D5)		5		CAMERA V5	37"
Vz52	EB LEFT TURN NEAR	LOCAL				V5	5			CAMERA V5	37"
104 405	MD EAD	10041				1/0					
L61 A&B	WB FAR	LOCAL				V6 V6	6				
L62 A&B	WB MID	LOCAL COMB.					6			CAMEDA 1/4	37"
Vz63	WB INSIDE FAR					V14(D6)	6	6		CAMERA V1	37"
Vz64	WB OUTSIDE FAR	COMB.				V16(D8)	ь	8		CAMERA V1	31"
PB2 A&B	MATTISON S. LEG	PED.				P2	2				
PB3 A&B	DAVE WARD E LEG	PED.				P3	3				
PB6 A&B	COUNTRY CLUB N LEG	PED.				P6	6				
PB4 A&B	DAVE WARD W. LEG	PED.				P4	4				
1 D4 AQD	DAVE WARD W. LEG	I LD.				1 4	7				

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM INPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE

"AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OL THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2 CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3	CLR.	4	CLR.	FLASH SEQ.
1	< 6		< 6	•	≪FY	***	≪FY	***	<r< del=""></r<>	≺R	≺R	≺R	<r< del="">−</r<>
2&3	R	R	G	**	R	R	G	**	R	R	R	R	R
4	R	R	R	R	R	R	R	R	G	Υ	R	R	R
5	R	R	R	R	R	R	R	R	G	Υ	R	R	R
6	< 6	*	≺F¥	***	< 6	•	≪FY	•••	<r< del=""></r<>	<r< del=""></r<>	≺R	<r< del=""></r<>	
7&8	R	R	R	R	G	**	G	• •	R	R	R	R	R
9	R	R	R	R	R	R	R	R	R	R	G _G	Υ	R
10	R	R	R	R	R	R	R	R	R	R	G	Y	R
11,12,13&14	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	w	FDW	BLANK
15&16	DW	DW	w	FDW	DW	DW	w	FDW	DW	DW	DW	DW	BLANK
17,18,19&20	DW	DW	DW	DW	DW	DW	DW	DW	w	FDW	DW	DW	BLANK
21&22	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	BLANK

- 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

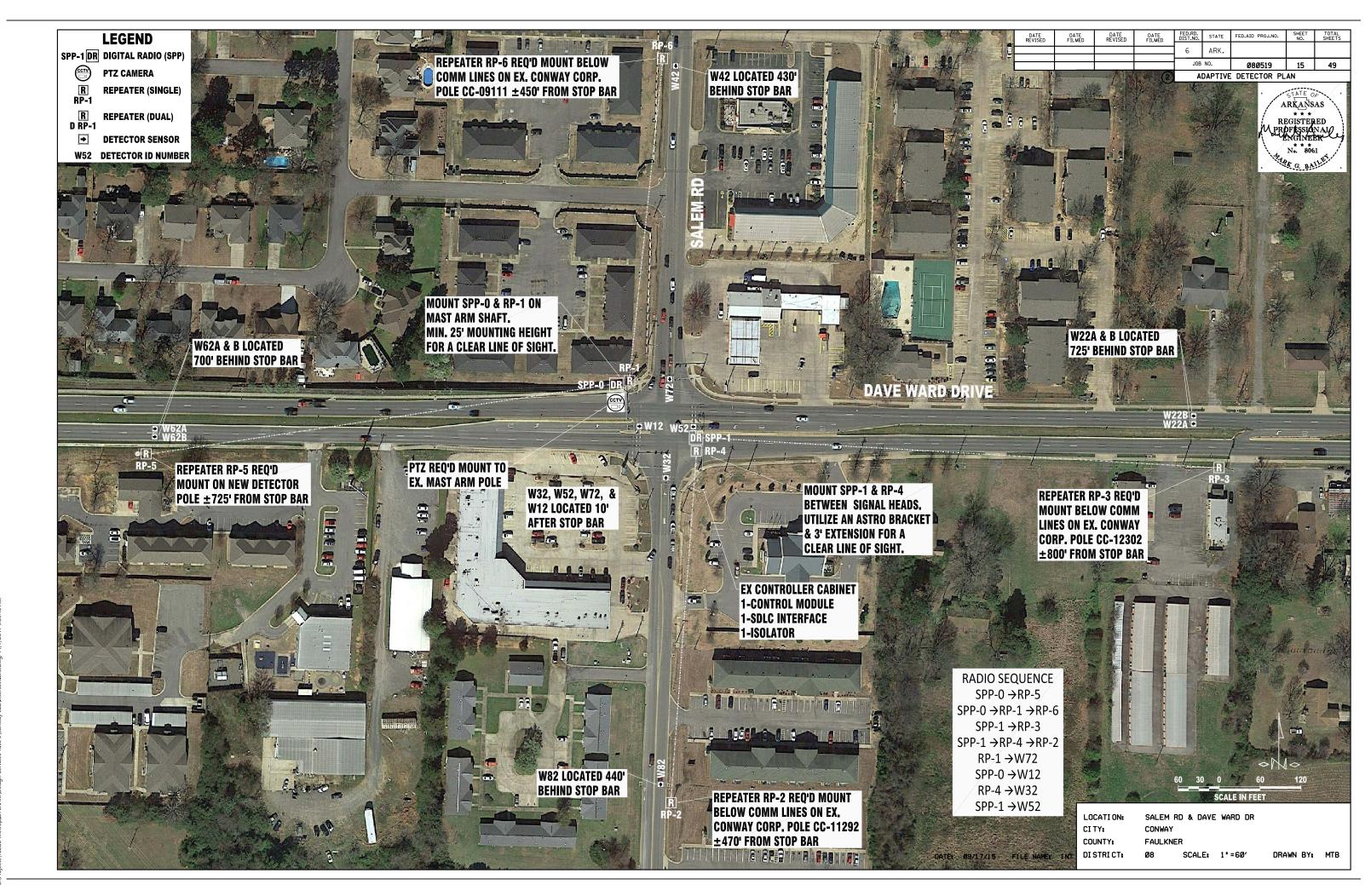
LOCATION: COUNTRY CLUB RD/MATTISON RD & DAVE WARD DR

CITY: CONWAY COUNTY: FAULKNER

DISTRICT: SCALE: N/A

DRAWN BY: MTB

DATE: 11/4/17 FILE NAME: CC SIG

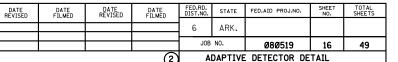


Sybrojects/12286-Metronlan | RArk/Design Services Task 3yconway cadyintersections dwg 11/7/2017 9:09:10 AM

	DETECTOR AS	SSIGNMENTS	8		
DETECTOR I.D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS
W32	NB LT	FILTER	17	RP-4 > SPP-1	AFTER STOP BAR SENSOR
W82	NB ADV	NORMAL	18	RP-2 > RP-4 > SPP-1	ADVANCE SENSOR
W52	WB LT	FILTER	19	SPP-1	AFTER STOP BAR SENSOR
W22A	WB ADV	NORMAL	20	RP-3 > SPP-1	ADVANCE SENSOR
W22B	WB ADV	NORMAL	21	RP-3 > SPP-1	ADVANCE SENSOR
W72	SB LT	FILTER	22	RP-1 > SPP-0	AFTER STOP BAR SENSOR
W42	SB ADV	NORMAL	23	RP-6 > RP-1 > SPP-0	ADVANCE SENSOR
W12	EB LT	FILTER	24	SPP-0	AFTER STOP BAR SENSOR
W62A	EB ADV	NORMAL	25	RP-5 > SPP-0	ADVANCE SENSOR
W62B	EB ADV	NORMAL	26	RP-5 > SPP-0	ADVANCE SENSOR
W62B		NORMAL	26		
All detectors		THOSE GETECK	J. 30113013.		

INTERSECTION NOTES

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS (FOUR TOTAL) WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEAD'S. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. CONTROLLER SHALL RUN IN COMPACT MODE. EXISTING LOAD BAY IS MODEL TF4212.
- 4. CONTRACTOR TO INSTALL NEW PTZ CAMERA ON EXISTING NORTHWEST MAST ARM POLE LUMINAIRE ARM. CAMERA POWER AND SURGE PROTECTION DEVICES TO BE INSTALLED IN CONTROLLER CABINET.
- 5. CONTRACTOR SHALL FIELD VERIFY CAMERA SITE LOCATION AND ORIENTATION TO PROVIDE BEST COMPLETE COVERAGE OF ROADWAY PRIOR TO INSTALLING CAMERAS. LOCATIONS AND ORIENTATIONS TO BE APPROVED BY THE PROJECT ENGINEER. NO EXTRA PAY WILL BE ALLOWED IF CAMERA LOCATION MOVES TO DIFFERENT POLE.
- 6. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.

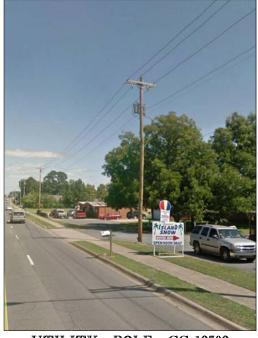


INTERSECTION PICTURES



UTILITY POLE CC-09111





UTILITY POLE CC-12302



E/B REPEATER AREA ON NEW DETECTOR POLE

PTZ MAST ARM POLE

NOTE:



UTILITY POLE CC-11292

CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON

CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES). CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER

EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.



CONTROLLER CABINET

DATE: 09/17/15 FILE NAME: DS

DRAWN BY: MTB

SALEM RD & DAVE WARD DR

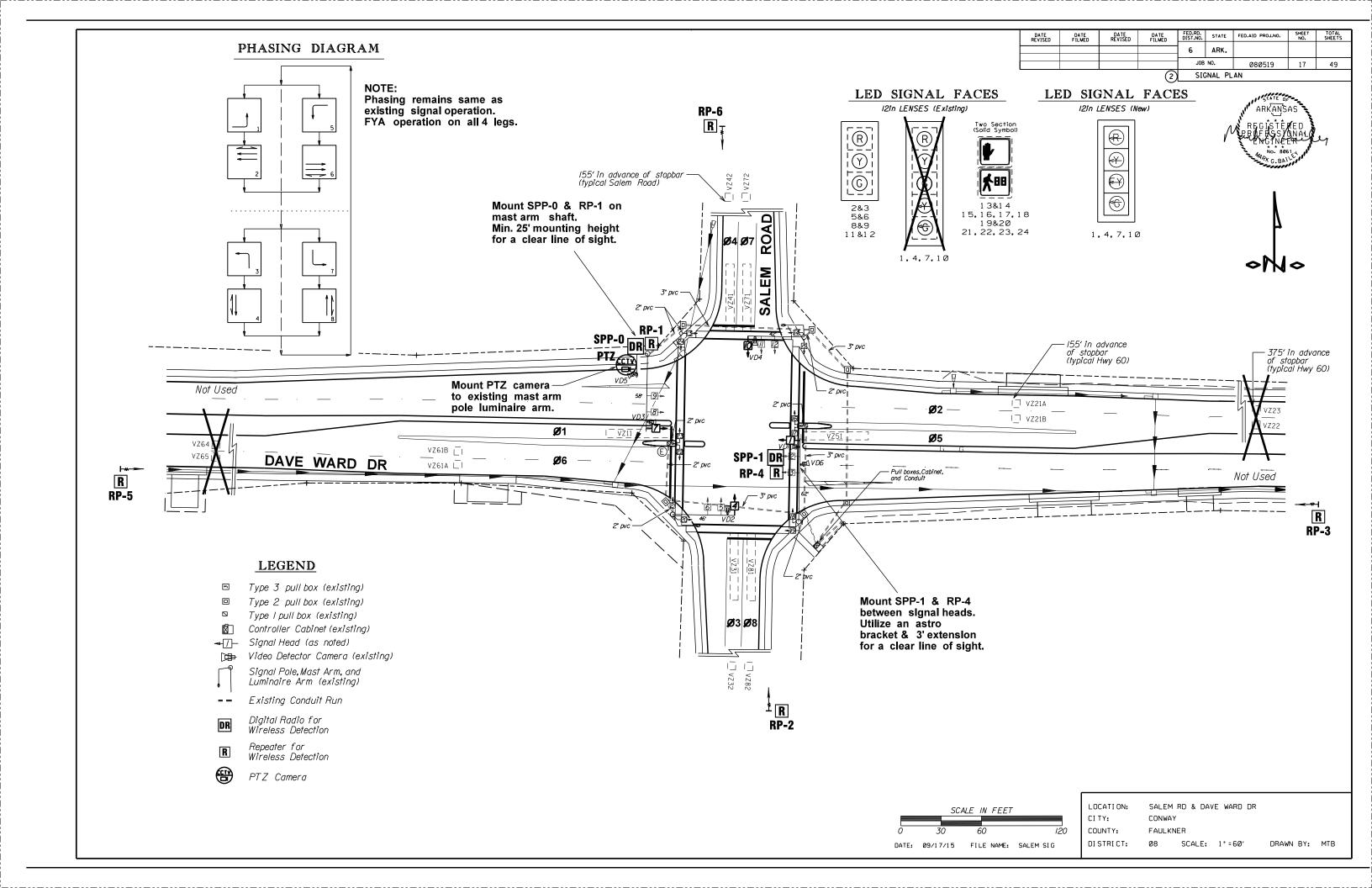
CONWAY

COUNTY **FAULKNER** DI STRI CT:

LOCATI ON:

CI TY:

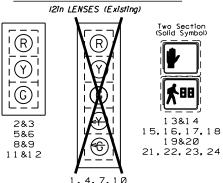
SCALE: N/A



PHASING DIAGRAM

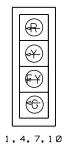
NOTE: Phasing remains same as existing signal operation. FYA operation on all 4 legs.

LED SIGNAL FACES



LED SIGNAL FACES

I2în LENSES (New)



NOTE: All new signal heads shall have backplates.

WIRING DIAGRAM

NOT TO SCALE

1-CAT 5 (Digital Radio) 1-Video Cable (PTZ Camera) -Video Cable Re	1-CAT 5 (Digital Radio) 1-Video Cable (PTZ Camera) 2-5c, 2-2c*12, 3-video cable, 2-20c
PTZ Camera) R 4 1-2c*1/2,2vlde	Section FYA section FYA eo cable, l-20c pypical for from head) 1-5c, l-2c*12, l-video cable, l-20c (Digital Radio) 1-Video
I-2c•12 (typical for luminaire — Re	Peplace 5 Section Head 2-5c Cable Cable 4 Section FYA (PTZ Camera) Section Head W 4 Section FYA
2-5c	Replace 5 Section Head W 4 Section FVA
I-5c,I-video cable,I-20c 3-5c,I-video cab	3-video cable, 2-20c 1-7c 1-5c, 1-video cable, 1-20c 6-5c, 2-video cable, 2-20c 2-CAT 5 (Digital Radio) 1-Video Cable (PTZ Camera)

All wiring is existing except for CAT 5 (Digital Radio) and Video Cable (1-CAT 5 + 1-3C/14 A.W.G for PTZ Camera) shown in bold. Use existing wiring to power FYAs.

DATE: 09/17/15 FILE NAME: SALEM SIG

DATE REVISED DATE FILMED

> 5 + EVA:

◄//-

FED.RD. DIST.NO. STATE FED.AID PROJ.NO.

SIGNAL PLAN SHEET

080519

LEGEND

Type 3 pull box (existing)
Type 2 pull box (existing)

Type I pull box (existing)
Controller Cabinet (existing)

Signal Head (as noted)

Signal Pole, Mast Arm, and

Luminaire Arm (existing)

Existing Conduit Run

Digital Radio for
Wireless Detection

Repeater for
Wireless Detection

PTZ Camera

Video Detector Camera (existing)

18 49

6 ARK.

JOB NO.

DATE FILMED

DETECTOR CHART

			DE	TECTOR	SYSTEM	DESCRI	PTION: JO	DB 080519			
Conw	ay-Dave Ward Dr(Hwy.60))/ (Salem	Rd.)	HARD	WARE IN	IPUTS	F	ROGRAM AS	SSIGNMENTS		
	DETECTOR ASSIGNM	ENTS		B,	/ SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB. TRM.#	AMP CHN.#	CON. IMP.#	PHS	SYSTEM DET.#	DETECTOR NUMBERS	COMMENTS	LENGTHS
Vz11	EB LEFT TURN	LOCAL				V1	1	1		CAMERA V1	23"
Vz21 A&B	WB NEAR	LOCAL				V2	2			CAMERA V3	37"
Vz22	WB INSIDE FAR					NU				CAMERA V6	37"
VZ23	WB OUTSIDE					NU				CAMERA V6	
Vz31	NB LEFT TURN	LOCAL				V3	3			CAMERA V4	37"
Vz32	NB LEFT TURN FAR	COMB.				V11(D3)	3	3		CAMERA V4	37"
						` '					
Vz41	SB NEAR	LOCAL				V4	4			CAMERA V2	23"
Vz42	SB ADVANCE	COMB.				V12(D4)	4	4		CAMERA V2	37"
Vz51	WB LEFT TURN	LOCAL				V5	5			CAMERA V3	37"
Vz61 A&B	EB NEAR	LOCAL				V6	6			CAMERA V1	37"
Vz64	EB INSIDE FAR					NU	6			CAMERA V5	23"
VZ65	EB OUTSIDE FAR					NU				CAMERA V5	
Vz71	SB LEFT TURN	LOCAL				V7	7			CAMERA V2	37"
Vz72	SB LEFT TURN FAR	COMB.				V15(D7)	7	7		CAMERA V2	37"
Vz81	NB NEAR	LOCAL	-			V8	8			CAMERA V4	23"
Vz82	NB ADVANCE	COMB.				V16(D8)	8	8		CAMERA V4	37"
DD0 4 0 D	CALEMALIEC	PED.				D0	2				
PB2 A&B PB4 A&B	SALEM N. LEG DAVE WARD W. LEG	PED.				P2 P4	4				
PB6 A&B	SALEM S. LEG	PED.				P4 P6	6				
PB8 A&B	DAVE WARD E. LEG	PED.				P8	8				

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY, COMB = ACTUATES PHASE AND SYSTEM INPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE

: "AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

INTERVAL CHART

							_							_	_		
SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	< 6		<6		≪F¥	***	≪F¥	***	≺R	≺R	≺R	≺R	≺R	≺R	≺R	≺R	<r< del="">−</r<>
2&3	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4	<r< del=""></r<>	≺R	≺R	<r< del=""></r<>	<r< del=""></r<>	<r< del=""></r<>	<r< del=""></r<>	≪R	< 6		<fy< del=""></fy<>	•••	< 6	*	≪F¥	***	
5&6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	<6	*	≺F¥	***	< 6		≺FY	***	≺R	≺R	≺R	≺R	≺R	≺R	≺R	≪R	
8&9	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
10	≺R	≺R	≺R	≪R	≺R	≪R	≺R	≪R	< 6	*	< 6		<fy< del=""></fy<>	***	≪FY	***	
11&12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
13&14	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
15,16,17&18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	w	FDW	DW	DW	w	FDW	BLANK
19&20	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
21,22,23&24	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLANK

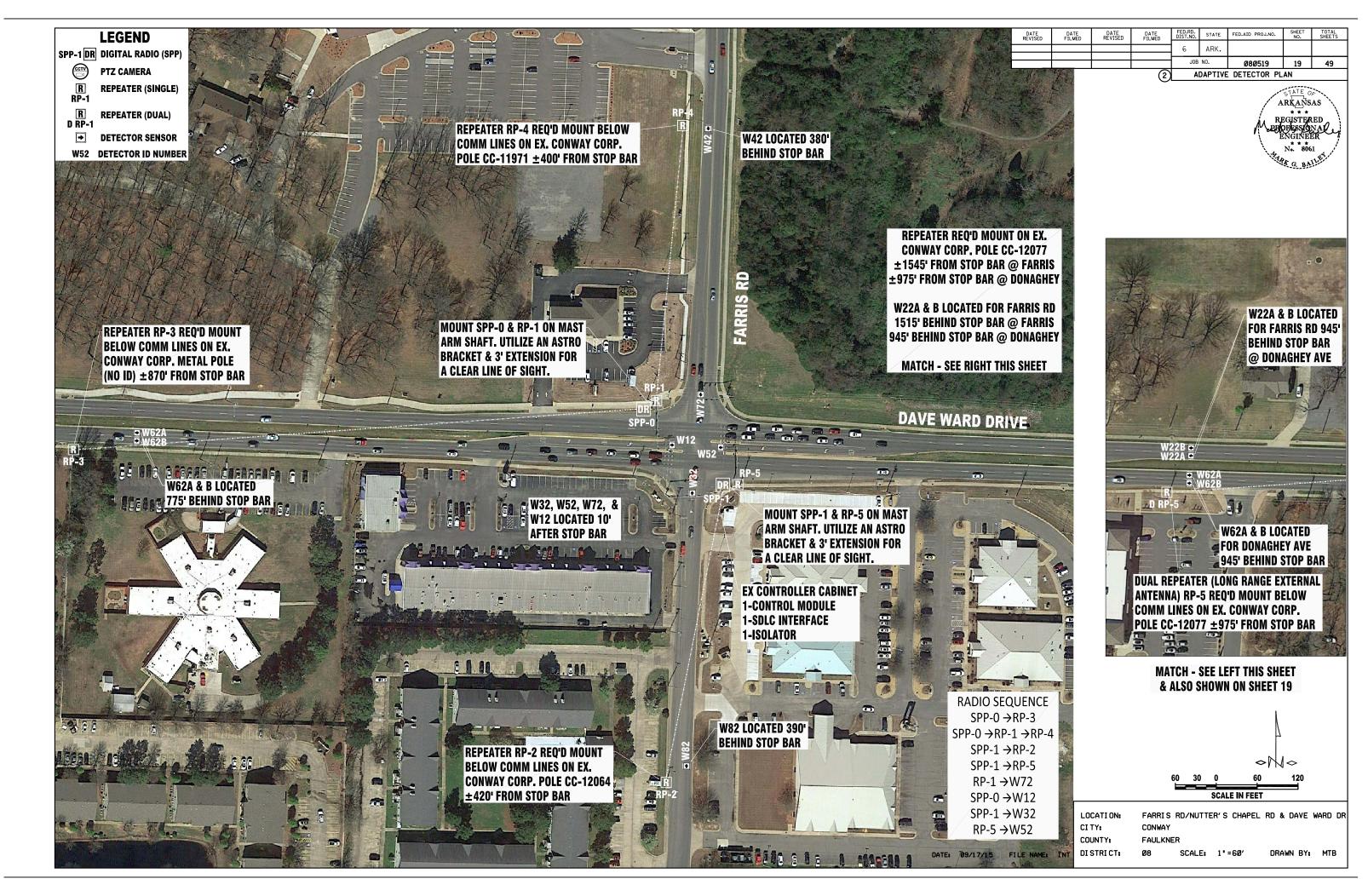
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- •• DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- ••• DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: SALEM RD & DAVE WARD DR

CITY: CONWAY
COUNTY: FAULKNER

DISTRICT: 08 SCALE:

SCALE: N/A DRAWN BY: MTB



		I	DETEC	TOR CHART	
	DETECTOR A	SSIGNMENTS			
DETECTOR I.D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS
W32	NB LT	FILTER	17	SPP-1	AFTER STOP BAR SENSOR
W82	NB ADV	NORMAL	18	RP-2 > SPP-1	ADVANCE SENSOR
W52	WB LT	FILTER	19	RP-5 > SPP-1	AFTER STOP BAR SENSOR
W22A *	WB ADV	NORMAL	20	USES DONAGHEY AVE D RP	ADVANCE SENSOR
W22B *	WB ADV	NORMAL	21	USES DONAGHEY AVE D RP	ADVANCE SENSOR
W72	SB LT	FILTER	22	RP-1 > SPP-0	AFTER STOP BAR SENSOR
W42	SB ADV	NORMAL	23	RP-4 > RP-1 > SPP-0	ADVANCE SENSOR
W12	EB LT	FILTER	24	SPP-0	AFTER STOP BAR SENSOR
W62A	EB ADV	NORMAL	25	RP-3 > SPP-0	ADVANCE SENSOR
W62B	EB ADV	NORMAL	26	RP-3 > SPP-0	ADVANCE SENSOR

INTERSECTION NOTES

W22 A & B for Ferris Rd. is picked up by D RP-5 > RP-4 > SPP-0 at Donaghey Ave

Detectors are wireless vehicle detector sensors.

All detectors use BIU 2.

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS (FOUR TOTAL) WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. CONTROLLER SHALL RUN IN COMPACT MODE. EXISTING LOAD BAY IS MODEL TF4212.
- 4. CONTRACTOR TO REPLACE EXISTING VANTAGE PLUS VIDEO DETECTION PROCESSING EQUIPMENT WITH NEW VIDEO PROCESSOR EDGE CARDS (2 CAMERA) AND NEW VIDEO EDGE CARD EXTENDER. NEW VEHICLE DETECTOR RACK (16 CHANNEL) REQUIRED. SEE SIGNAL PLAN DETECTOR CHART FOR DETECTOR ASSIGNMENTS. EXISTING VIDEO DETECTION CAMERAS AND CABLING TO REMAIN IN PLACE.
- 5. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.



ARKANSAS

REGISTEBED
PROFESSIONAL

ENGINEER

INTERSECTION PICTURES



METAL UTILITY POLE (NO ID) (FOR E/B REPEATER)



UTILITY POLE CC-11971



CONTROLLER CABINET



UTILITY POLE CC-12064

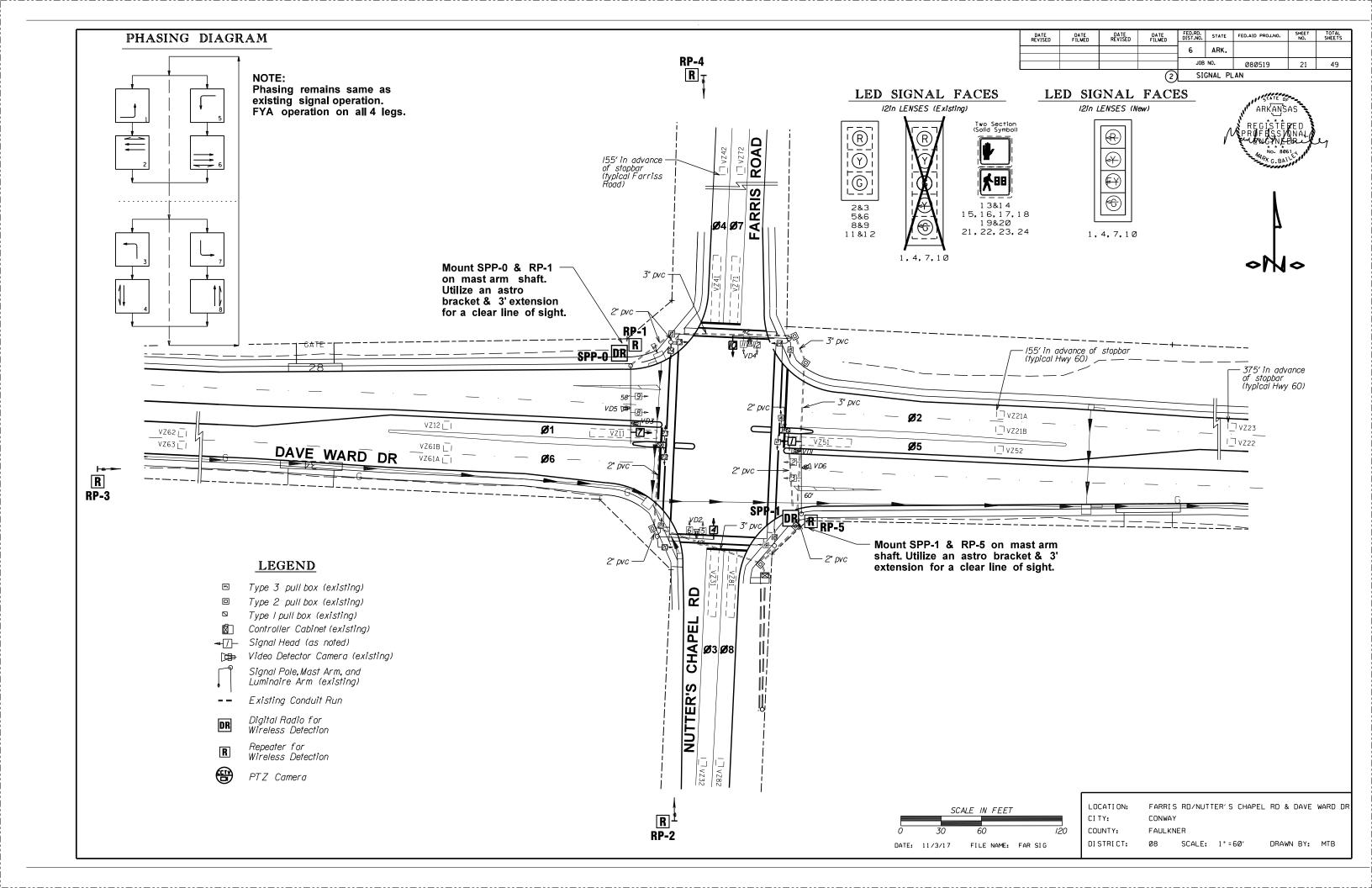
NOTE:
CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON
CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES).
CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER
EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.

DATE: 09/17/15 FILE NAME: DF

LOCATION: FARRIS RD/NUTTER'S CHAPEL RD & DAVE WARD DR

CI TY: CONWAY
COUNTY: FAULKNER

DI STRI CT: Ø8 SCALE: N/A DRAWN BY: MTB



PHASING DIAGRAM

Phasing remains same as existing signal operation. FYA operation on all 4 legs.

LED SIGNAL FACES

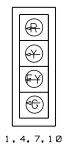
I2în LENSES (Existing) (R) 2&3 5&6 8&9 15,16,17,18 21, 22, 23, 24 11&12

LED SIGNAL FACES

1 3 & 1 4

19&20

12în LENSES (New)



NOTE: All new signal heads shall have backplates.

WIRING DIAGRAM NOT TO SCALE Replace 5 I-2c*12,I-20c 2-video cable, Section Head w♥ 4 Section FYA DR 3-5c,2-2c*12, 3-video cable,2-20c 1-CAT 5 (Digital Radio) 1-CAT 5 (Digital Radio) I-5c (typical for 3 section heads) 3-5c, 3-2c*12, 2-video cable, 2-20c Replace 5 Replace 5 Section Head w Section Head w 4 Section FYA 4 Section FYA Replace 5 Section Head w 4 Section FYA I-video cable, I-20c -5-5c, 2-2c*12, 3-video cable, 3-20c , 50,2 20 12,3-VIABO ,— I-2c*6 Main Breaker — Service Point 3-5c.I-video cable,I-20c -- Coax Cable in separate conduit NOTE: 5-5c, I-video cable, I-20c -All wiring is existing except for CAT 5 (Digital Radio) 2-CAT 5 (Digital Radio) 1-CAT 5 (Digital Radio) shown in bold. Use existing wiring to power FYAs.

DATE REVISED

DATE FILMED

DATE REVISED

DATE FILMED

6 ARK. JOB NO. 080519 22 49 SIGNAL PLAN SHEET **LEGEND** Type 3 pull box (existing) Type 2 pull box (existing) Type I pull box (existing) Controller Cabinet (existing) Signal Head (as noted) **◄**//-Video Detector Camera (existing) Signal Pole, Mast Arm, and Luminaire Arm (existing) Existing Conduit Run Digital Radio for Wireless Detection Repeater for Wireless Detection

PTZ Camera

FED.RD. DIST.NO. STATE

DETECTOR CHART

			DET	ECTOR S	YSTEM D	ESCRIP	FION: JOE	080519			
Conway-	-Dave Ward Dr(Hwy.60)/ Farr	is-Nutter (Chapel	HARD	WARE IN	PUTS	P	ROGRAM AS	SSIGNMENTS		
	DETECTOR ASSIGNME	NTS		BY	/ SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB.	AMP	SDLC	PHS	SYSTEM	DETECTOR	COMMENTS	LENGTHS
DL1.ID#	LOCATION DIRECTION		DL1.#	TRM.#	CHN.#	MP.#	FIIS	DET.#	NUMBERS		
Vz11	EB LEFT TURN	LOCAL			1	1	1			CAMERA V1	23"
Vz12	EB LEFT TURN FAR	COMB.			2	33	1	1		CAMERA V5	23"
Vz21A&B	WB NEAR	LOCAL			7	2				CAMERA V3	
Vz22	WB OUTSIDE FAR	COMB.			8	34	2			CAMERA V6	37"
Vz23	WB INSIDE FAR	COMB.			8	35	2	2		CAMERA V6	37"
Vz31	NB LEFT TURN IN	LOCAL			9	3	3			CAMERA V4	37"
Vz32	NB LEFT TURN IN FAR	SYS			10	36		3		CAMERA V4	37"
Vz41	SB INSIDE NEAR	LOCAL			E14	4	4			CAMERA V2	23"
Vz42	SB INSIDE FAR	SYS			E16	37	4	4		CAMERA V2	37"
Vz51	WB LEFT TURN FAR	COMB.			5	5	5	5		CAMERA V3	37"
Vz52	WB LEFT TURN	LOCAL			6	38	5			CAMERA V6	37"
Vz61A&B	EB NEAR	LOCAL			3	6				CAMERA V1	
Vz62	EB OUTSIDE FAR	COMB.			4	22	6			CAMERA V5	37"
Vz63	EB INSIDE FAR	COMB.			4	39	6	6		CAMERA V5	23"
Vz71	SB LEFT TURN IN NEAR	LOCAL			E13	7	7	7		CAMERA V2	37"
Vz72	SB LEFT TURN IN FAR	COMB.			E14	40	7			CAMERA V2	37"
Vz81	NB NEAR	LOCAL			11	8	8	_		CAMERA V4	23"
Vz82	NB ADVANCE	COMB.			12	41	8	8		CAMERA V4	37"
PB2 A&B	FARRIS N. LEG	PED.				P2	0				
PB4 A&B	DAVE WARD W. LEG	PED.				P2 P4	4				
PB4 A&B	NUTTER CHAPEL S. LEG	PED.				P4 P6	6				
PB8 A&B	DAVE WARD E. LEG	PED.				P8	8				
r Do A&D	DAVE WARD E. LEG	FED.				го	0				
								1	l		1
		1	1	1	1						

CONTROLLER INPUT ABBREVIATIONS:

- V = VEHICLE INPUT
- D = SYSTEM OR AUXILIARY INPUT
- P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM INPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE

"AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OL

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	< 6		< 6		≪F¥	***	≪F¥	***	≺R	≺R	₩	≺R	√R	≺R	≺R	<r< del=""></r<>	≺R
2&3	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4	≪R	≪R	≪R	≪R	≪R	≪R	≪R	≪R	< 6	*	<fy< del=""></fy<>	***	-6	*	≺FY	***	
5&6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	< 6	•	≪FY	***	< 6	•	≪FY	***	≺R	≺R	≺R	≺R	< R	≺R	≺R	≺R	₩
8&9	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
10	≪R	≪R	≪R	≪R	≪R	<r< del=""></r<>	≪R	≪R	< 6	*	< 6	•	<fy< del=""></fy<>	***	≪FY	***	₩
11&12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
13&14	DW	DW	DW	DW	w	FDW	w	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
15,16,17&18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLANK
19&20	DW	DW	W	FDW	DW	DW	w	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
21,22,23&24	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLANK

- 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

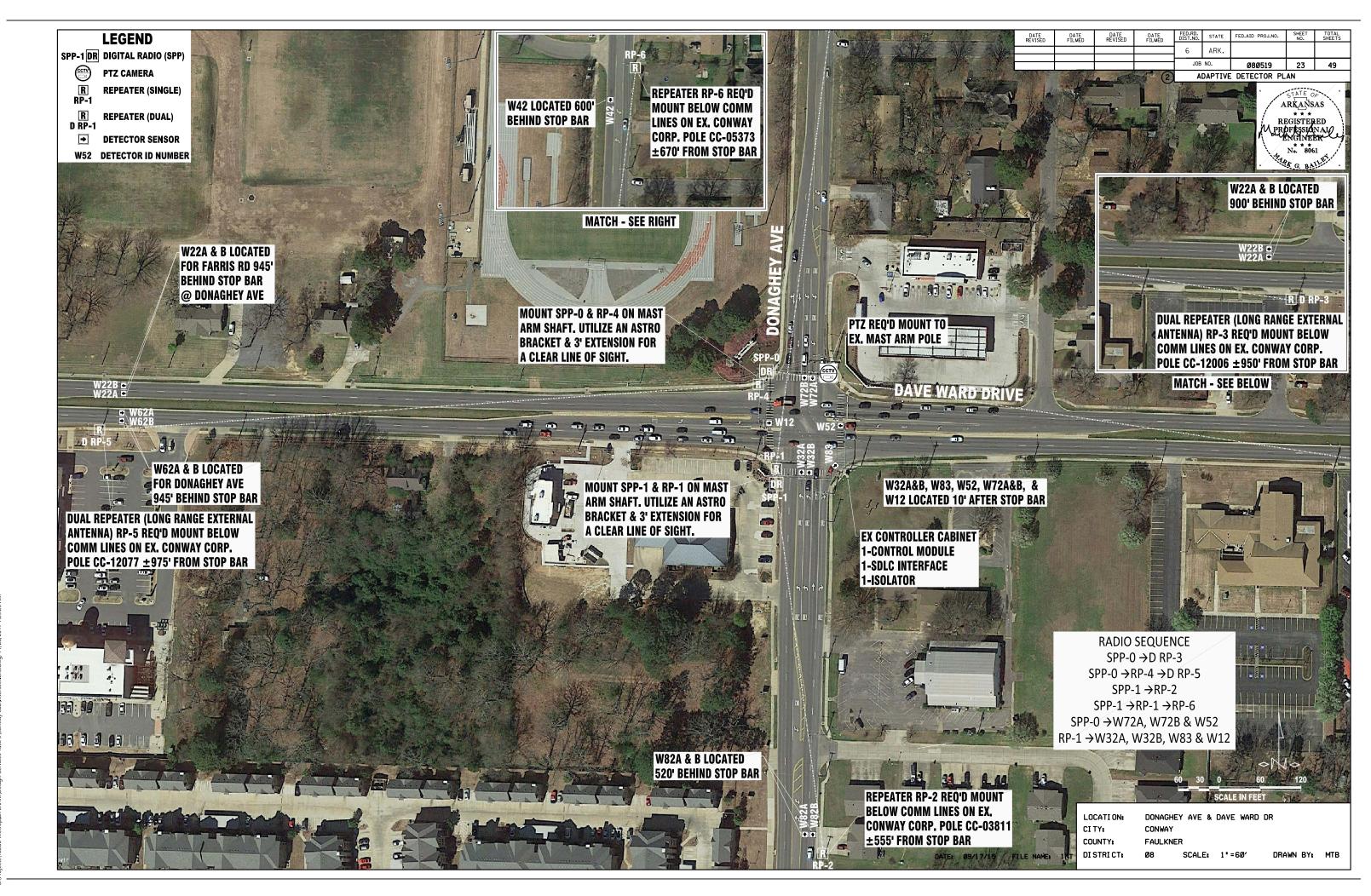
LOCATION: FARRIS RD/NUTTER'S CHAPEL RD & DAVE WARD DF

CITY: CONWAY COUNTY: FAULKNER

DISTRICT: Ø8 SCALE: N/A

DRAWN BY: MTB

DATE: 11/3/17 FILE NAME: FAR SIG



S. Projects/12286-Metroplan | RArk/Design Services Task 3/conway cad/intersections dwg 11/28/2017 7/29/25

	DETECTOR CHART												
	DETECTOR A	SSIGNMENTS			LHHHL.								
DETECTOR I.D. NUMBER	D. NUMBER DIRECTION TY		DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS								
W32A	NB LT	FILTER	17	RP-1 > SPP-1	AFTER STOP BAR SENSOR								
W32B	NB LT	FILTER	18	RP-1 > SPP-1	AFTER STOP BAR SENSOR								
W83	NB RT	FILTER	19	RP-1 > SPP-1	AFTER STOP BAR SENSOR								
W82A	NB ADV	NORMAL	20	RP-2 > SPP-1	ADVANCE SENSOR								
W82B	NB ADV	NORMAL	21	RP-2 > SPP-1	ADVANCE SENSOR								
W52	WB LT	FILTER	22	SPP-0	AFTER STOP BAR SENSOR								
W22A *	WB ADV	NORMAL	23	D RP-3 > SPP-0	ADVANCE SENSOR								
W22B *	WB ADV	NORMAL	24	D RP-3 > SPP-0	ADVANCE SENSOR								
W72A	SB LT	FILTER	25	SPP-0	AFTER STOP BAR SENSOR								
W72B	SB LT	FILTER	26	SPP-0	AFTER STOP BAR SENSOR								
W42	SB ADV	NORMAL	27	RP-6 > RP-1 > SPP-1	ADVANCE SENSOR								
W12	EB LT	FILTER	28	RP-1 > SPP-1	AFTER STOP BAR SENSOR								
W62A *	EB ADV	NORMAL	29	D RP-5 > RP-4 > SPP-0	ADVANCE SENSOR								
W62B *	EB ADV	NORMAL	30	D RP-5 > RP-4 > SPP-0	ADVANCE SENSOR								
					-								

INTERSECTION NOTES

Detectors are wireless vehicle detector sensors.

D RP-5 > RP-4 > SPP-0 also picks up W22 A & B for Ferris Rd.

All detectors use BIU 2. * Uses dual repeater.

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS (TWO TOTAL) WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. CONTROLLER SHALL RUN IN COMPACT MODE. EXISTING LOAD BAY IS MODEL TF4212.
- 4. CONTRACTOR TO INSTALL NEW PTZ CAMERA ON EXISTING NORTHWEST MAST ARM POLE. CAMERA POWER AND SURGE PROTECTION DEVICES TO BE INSTALLED IN CONTROLLER CABINET.
- 4. CONTRACTOR SHALL FIELD VERIFY CAMERA SITE LOCATION AND ORIENTATION TO PROVIDE BEST COMPLETE COVERAGE OF ROADWAY PRIOR TO INSTALLING CAMERAS. LOCATIONS AND ORIENTATIONS TO BE APPROVED BY THE PROJECT ENGINEER. NO EXTRA PAY WILL BE ALLOWED IF CAMERA LOCATION MOVES TO DIFFERENT POLE.
- 5. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.
- 6. EXISTING BATTERY BACK-UP SYSTEM FOR CONTROLLER TO REMAIN IN PLACE AND OPERATIONAL.

FED.RD. STATE FED.AID PROJ.NO. 6 ARK. Ø8Ø519 24

INTERSECTION PICTURES



UTILITY POLE CC-05373





UTILITY POLE CC-12006



UTILITY POLE CC-12077

PTZ MAST ARM POLE



UTILITY POLE CC-03811

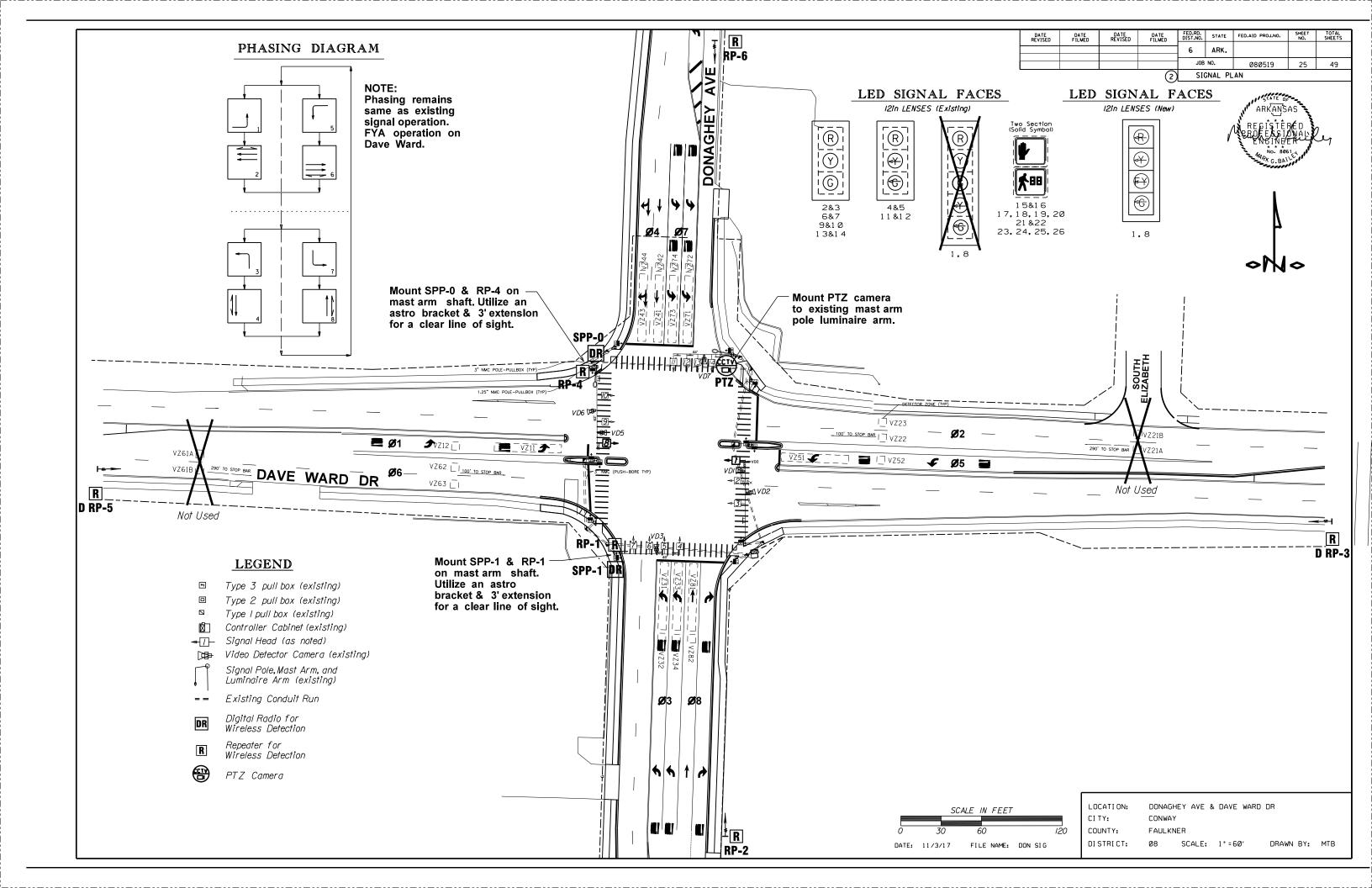
CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES).
CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER
EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.



CONTROLLER CABINET DATE: 09/17/15 FILE NAME: DD

CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON CI TY: CONWAY COUNTY **FAULKNER** DI STRI CT:

SCALE: N/A



.

PHASING DIAGRAM

NOTE: Phasing remains same as existing signal operation. FYA operation on all 4 legs.

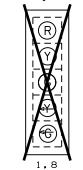
LED SIGNAL FACES

I2în LENSES (Existing)



1 3 & 1 4



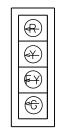




17,18,19,20 23, 24, 25, 26

LED SIGNAL FACES

12în LENSES (New)



NOTE:

All new signal heads shall have backplates.

DETECTOR CHART

			DETI	ECTOR S	YSTEM D	ESCRIP1	TION: JOE	080519			
Conw	ay-Dave Ward Dr(Hwy.60)/ D	onaghey /	Ave.	HARD	WARE IN	PUTS	Р	ROGRAM AS	SSIGNMENTS		
	DETECTOR ASSIGNMENT	NTS		B١	SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB.	AMP	CON.	PHS	SYSTEM	DETECTOR	COMMENTS	LENGTHS
DL1.ID#	LOCATION DIRECTION		DL1.#	TRM.#	CHN.#	MP.#	FIIS	DET.#	NUMBERS		
Vz11	EB LEFT TURN NEAR	LOCAL				V1	1	1		CAMERA V1	23"
Vz12	EB LEFT TURN FAR	COMB.				V9(D1)	1			CAMERA V1	23"
Vz21A&B	WB FAR					NU				CAMERA V2	
Vz23	WB OUTSIDE NEAR	LOCAL				V2	2			CAMERA V5	37"
Vz22	WB INSIDE NEAR	COMB.				V10(D2)	2	2		CAMERA V5	37"
Vz31	NB LEFT TURN IN	LOCAL				V3	3			CAMERA V7	37"
Vz32	NB LEFT TURN IN FAR	SYS				V11(D3)		3		CAMERA V7	37"
Vz33	NB LEFT TURN OUT	LOCAL				V3	3			CAMERA V7	37"
Vz34	NB LEFT TURN OUT FAR	SYS				V11(D3)		3		CAMERA V7	37"
Vz41	SB INSIDE NEAR	LOCAL				V4	4			CAMERA V3	23"
Vz42	SB INSIDE FAR	SYS				V12(D4)	4	4		CAMERA V3	37"
Vz43	SB OUTSIDE NEAR	LOCAL				NU				CAMERA V3	
Vz44	SB OUTSIDE FAR	SYS				NU				CAMERA V3	
Vz51	WB LEFT TURN	LOCAL				V5	5	_		CAMERA V5	37"
Vz52	WB LEFT TURN FAR	COMB.				V(13)	5	5		CAMERA V5	37"
1/ 04 A 0 D	ED FAD					NIII				0414504340	
Vz61A&B	EB FAR					NU				CAMERA V6	
Vz62	EB OUTSIDE NEAR	LOCAL				V6	6			CAMERA V1	37"
Vz63	EB INSIDE NEAR	COMB.				V14(D6)	6	6		CAMERA V1	23"
1/-/1	SB LEFT TURN IN NEAR	LOCAL				V/	,			(2014) 130 372	3/"
Vz/1 Vz72	SB LEFT TURN IN FAR	COMB.				V15(D7)	7	7		CAMERA V3	37"
VZ72	SB LEFT TURN OUR NEAR					V13(D7)	7	/		CAMERA V3	37"
Vz71	SB LEFT TURN OUR NEAR	COMB.				V15(D7)	7	7		CAMERA V3	37"
VZIZ	SB LEFT TURN OUT FAR	COMB.				V 13(D7)	- /	1		CAMERA V3	31
Vz81	NB NEAR	LOCAL				V8	8			CAMERA V7	23"
Vz82	NB ADVANCE	COMB.				V16(D8)	8	8		CAMERA V7	37"
V LOL	ND/NDV/NIOL	JOIND.				. 10(00)				S, INILIO (VI	Ū,
PB2 A&B	DONAGHEY N. LEG	PED.				P2	2				
PB4 A&B	DAVE WARD W. LEG	PED.				P4	4				
PB6 A&B	DONAGHEY S. LEG	PED.				P6	6				
PB8 A&B	DAVE WARD E. LEG	PED.				P8	8				
								1	ı		

CONTROLLER INPUT ABBREVIATIONS

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM NPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE

"AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OL
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

WIRING DIAGRAM

NOT TO SCALE 1-CAT 5 1-Video Cable (Digital Radio) (PTZ Camera) DR 1-CAT 5 (Digital Radio) -1-20c/14 -1-20c/14 1-2c/12 2-5c/14 2-2c/12 1-5c/14 1-VC 1-2c/12 4-5c/14 3-VC VD6 🗯 - 1-CAT 5 (DIgItal Radlo) 1-Video Cable (PTZ Camera) Replace 5 15/14 2-5c/14 1-VC 1-VC Section Head Replace 5 w 4 Section Section Head **FYA** w 4 Section FYA 1-2c/12 5-5c/14 3-VC 3-20c/14 1-2c/12 6-5c/14 5-VC (PTZ Camera) 1-20c/14 3-5c/14 I-7c/I4 - 2-5c/I4 I-VC 1-CAT 5 --1-20c/14 1-5c/14 2-VC (Digital Radio) ~2-7c/14 1-CAT 5 (Digital Radio) 1-CAT 5 (Digital Radio) ·1-CAT 5 (Digital Radio)

NOTE:

All wiring is existing except for CAT 5 (Digital Radio) and Video Cable (1-CAT 5 + 1-3C/14 A.W.G for PTZ Camera) shown in bold. Use existing wiring to power FYAs.

DATE REVISED

DATE FILMED

1-Video Cable (PTZ Camera)

DATE REVISED

DATE FILMED

FED.RD. DIST.NO. STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS 6 ARK. JOB NO. 080519 26 49 SIGNAL PLAN SHEET

LEGEND

Type 3 pull box (existing)

Type 2 pull box (existing)

Type I pull box (existing) Controller Cabinet (existing)

Signal Head (as noted)

◄//-Video Detector Camera (existing)

Signal Pole, Mast Arm, and Luminaire Arm (existing)

Existina Conduit Run

Digital Radio for Wireless Detection

Repeater for Wireless Detection

PTZ Camera

INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	< €	•	< 6−	*	< F¥	***	≪FY	***	<r< del="">−</r<>	<r< del="">−</r<>	₩.	≪R −	₩	≪R	<r< del="">−</r<>	<r< del="">−</r<>	
2&3	R	R	G	••	R	R	G	**	R	R	R	R	R	R	R	R	R
4&5	R	R	R	R	R	R	R	R	< 6−	•	R	R	√ 6	•	R	R	R
6&7	R	R	R	R	R	R	R	R	R	R	R	R	G	••	G	••	R
8	< €	•	≪F¥	•••	< €-	•	≪F ¥	***	≺R		₩	≪R	₩	≪R	≪R		
9&10	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
11&12	R	R	R	R	R	R	R	R	< 6−	*	\$		R	R	R	R	R
13&14	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
15&16	DW	DW	DW	DW	w	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
17,18,19&20	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLANK
21&22	DW	DW	w	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
23,24,25&26	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLANK

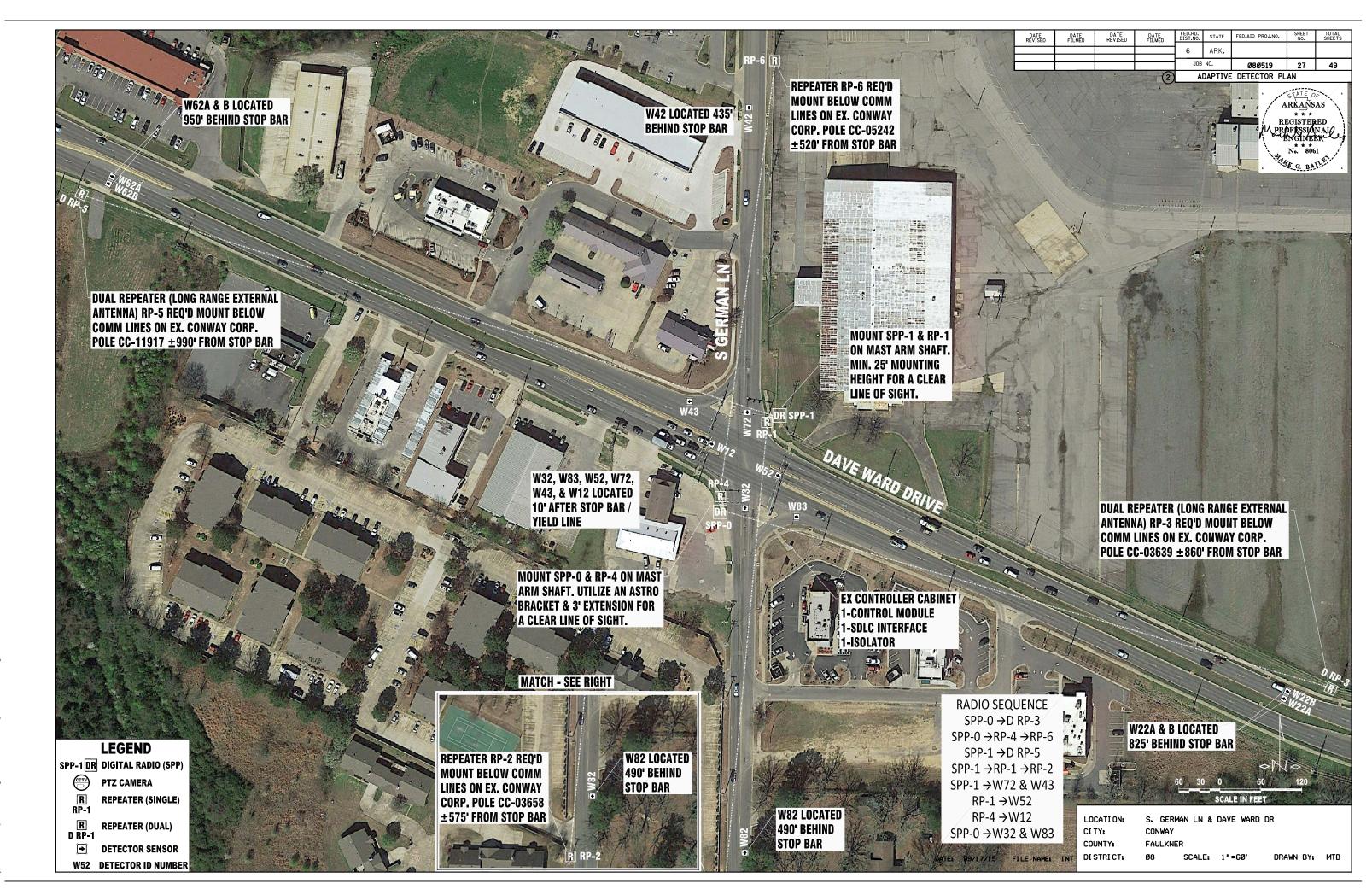
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- •• DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: DONAGHEY AVE & DAVE WARD DR

CITY: CONWAY COUNTY: FAULKNER

DISTRICT: Ø8 SCALE: N/A DRAWN BY: MTB

DATE: 11/3/17 FILE NAME: DON SIG



	DETECTOR A	SSIGNMENTS	9				
DETECTOR I.D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS		
W32	NB LT	FILTER	17	SPP-0	AFTER STOP BAR SENSOR		
W82	NB ADV	NORMAL	18	RP-2 > RP-1 > SPP-1	ADVANCE SENSOR		
W83	NB RT	FILTER	19	SPP-0	AFTER YEILD SENSOR		
W52	WB LT	FILTER	20	RP-1 > SPP-1	AFTER STOP BAR SENSOR		
W22A *	WB ADV	NORMAL	21	D RP-3 > SPP-0	ADVANCE SENSOR		
W22B *	WB ADV	NORMAL	22	D RP-3 > SPP-0	ADVANCE SENSOR		
W72	SB LT	FILTER	23	SPP-1	AFTER STOP BAR SENSOR		
W42	SB ADV	NORMAL	24	RP-6 > RP-4 > SPP-0	ADVANCE SENSOR		
W43	SB RT	FILTER	25	SPP-1	AFTER YEILD SENSOR		
W12	EB LT	FILTER	26	RP-4 > SPP-0	AFTER STOP BAR SENSOR		
W62A *	EB ADV	NORMAL	27	D RP-5 > SPP-1	ADVANCE SENSOR		
W62B *	EB ADV	NORMAL	28	D RP-5 > SPP-1	ADVANCE SENSOR		
All detectors		hicle detecto	or sensors.				
* Uses dual	repeater.						

Gu	
	70.0

UTILITY POLE CC-11917

INTERSECTION PICTURES



UTILITY POLE CC-05242



FED.RD. STATE FED.AID PROJ.NO.

ADAPTIVE DETECTOR DETAIL

Ø8Ø519 28

REGISTERED PLOPESSIONAL ENGINEER

ARK.

6

UTILITY POLE CC-03639

INTERSECTION NOTES

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS (FOUR TOTAL) WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. CONTROLLER SHALL RUN IN COMPACT MODE. EXISTING LOAD BAY IS MODEL TF4212.
- 4. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.



CONTROLLER CABINET

UTILITY POLE CC-03658

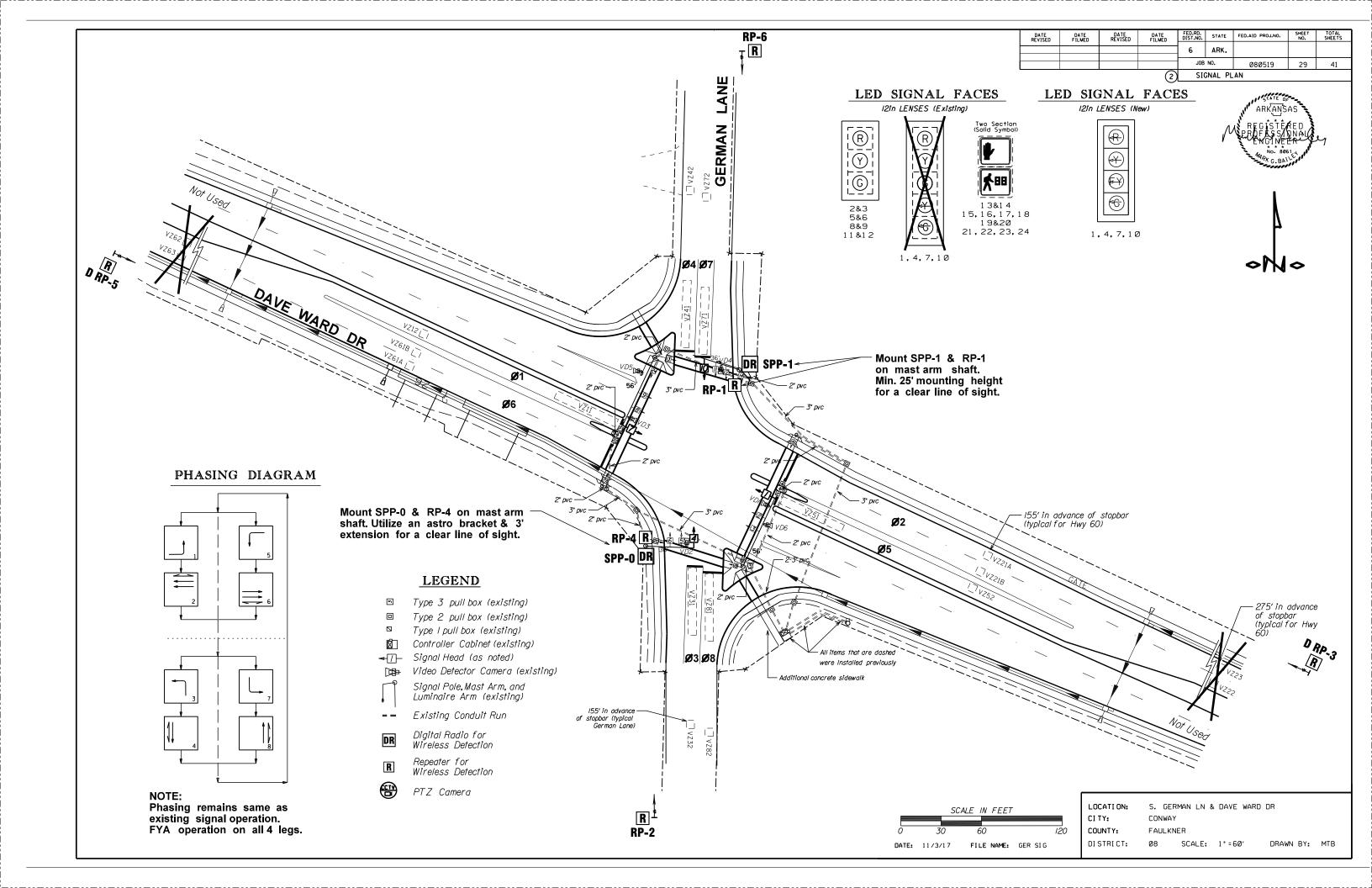
NOTE:
CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON
CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES).
CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER
EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.

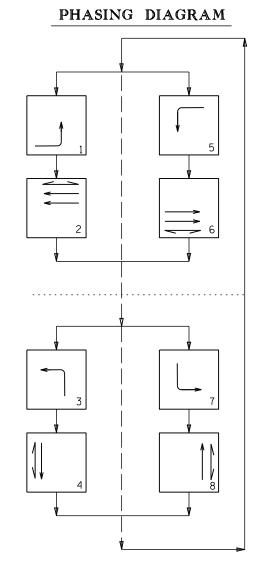
DATE: Ø9/17/15 FILE NAME: DG

LOCATION: S. GERMAN LN & DAVE WARD DR CITY: CONWAY

COUNTY: FAULKNER
DISTRICT: Ø8

8 SCALE: N/A DRAWN BY: MTB





Phasing remains same as existing signal operation. FYA operation on all 4 legs.

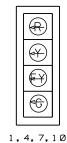
LED SIGNAL FACES I2în LENSES (Existing)

(R) <u>©</u> 2&3 5&6 8&9 11&12

1 3 & 1 4 15,16,17,18 19&20 21, 22, 23, 24

LED SIGNAL FACES

12în LENSES (New)



NOTE: All new signal heads shall have backplates.

NOT TO SCALE Replace 5 -Section Head I-7c (typical for 5 section heads) w 4 Section FYA – I-video cable (typical for video detection camera) I-5c,I-2c*I2,I-20c,& I-video cable I-2c*I2 (typical -for luminaire) 1-CAT 5 (Digital Radio) - I-5c (typical for 3 section heads) 1-CAT 5 – I-5c (typical for pedestrian head) 2-5c -(Digital Radio) Replace 5 - 2-5c,2-2c*12, 2-20c,& 3-video cable Section Head 2-5c w 4 Section FYA Replace 5 Section Head w 4 Section FYA - 5-5c,I-20c, & I-video cable - 4-5c,2-2c*12, 2-20c,& 3-video cable 4-5c -1-CAT 5 I-5c,I-20c,& I-video cable (Digital Radio) 1-CAT 5 (Digital Radio) – 4-5c,2-2c**°**12, 2-20c,& 3-video cable NOTE: All wiring is existing except 1-CAT 5 (Digital Radio) for CAT 5 (Digital Radio) I-5c,I-20c,& — I-video cable — Primary Breaker shown in bold. Use existing 8-5c, 2-20c, & 2-video cabl wiring to power FYAs. 1-CAT 5 (Digital Radio) - Coax Cable in seperate conduit

WIRING DIAGRAM

FED.RD. DIST.NO. STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS DATE FILMED DATE REVISED DATE FILMED 6 ARK. JOB NO. 30 49 080519

SIGNAL PLAN SHEET

DATE REVISED

LEGEND

'n Type 3 pull box (existing)

Type 2 pull box (existing)

Type I pull box (existing) Controller Cabinet (existing)

Signal Head (as noted) **◄**//-

Video Detector Camera (existing)

Signal Pole, Mast Arm, and Luminaire Arm (existing)

Existina Conduit Run

Digital Radio for

Wireless Detection

Repeater for Wireless Detection

PTZ Camera

DETECTOR CHART

				ECTOR S	YSTEM D	ESCRIP1	TON: JOE	080519			
Cor	nway-Dave Ward Dr(Hwy.60)	/ E. Gema	an	HARD	WARE IN	IPUTS			SSIGNMENTS		
	DETECTOR ASSIGNME	NTS		B)	/ SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB. TRM.#	AMP CHN.#	CON. IMP.#	PHS	SYSTEM DET.#	DETECTOR NUMBERS	COMMENTS	LENGTHS
Vz11	EB LEFT TURN	LOCAL				V1	1			CAMERA V1	23"
Vz12	EB LEFT TURN FAR	COMB.				V9(D1)	1	1		CAMERA V1	23"
Vz21A&B	WB NEAR	LOCAL				V2				CAMERA V3	
Vz22	WB OUTSIDE FAR					NU				CAMERA V6	37"
Vz23	WB INSIDE FAR					NU				CAMERA V6	37"
Vz31	NB LEFT TURN	LOCAL				V3	3			CAMERA V4	37"
Vz32	NB LEFT TURN FAR	COMB.				V11(D3)	3	3		CAMERA V4	37"
Vz41	SB THRU/RT NEAR	LOCAL				V4	4			CAMERA V2	23"
Vz42	SB THRU/RT FAR	COMB.				V12(D4)	4	4		CAMERA V2	37"
Vz51	WB LEFT TURN	LOCAL				V5	5			CAMERA V3	37"
Vz52	WB LEFT TURN FAR	COMB.				V(13)	5	5		CAMERA V3	37"
Vz61A&B	EB NEAR	LOCAL				V6	6			CAMERA V1	
Vz62	EBOUTSIDE FAR	COMB.				NU				CAMERA V5	37"
Vz63	EB INSIDE FAR	COMB.				NU				CAMERA V5	23"
Vz71	SB LEFT TURN IN NEAR	LOCAL				V7	7			CAMERA V2	37"
Vz72	SB LEFT TURN IN FAR	COMB.				V15(D7)	7	7		CAMERA V2	37"
Vz81	NB THRU/RT NEAR	LOCAL				V8	8			CAMERA V4	23"
Vz82	NB THRU/RT ADVANCE	COMB.				V16(D8)	8	8		CAMERA V4	37"
PB2 A&B	E GERMAN N. LEG	PED.				P2	2				
PB4 A&B	DAVE WARD W. LEG	PED.				P4	4				
PB6 A&B	E GERMAN S. LEG	PED.				P6	6				
PB8 A&B	DAVE WARD E. LEG	PED.				P8	8				
. 507.00	DAVE WARD E. LEO	1 20.				10			l .		

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY: COMB = ACTUATES PHASE AND SYSTEM INPUT: SYS = SYSTEM ONLY. DOES NOT ACTUATE PHASE

"AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OUTPUT POSITION. . "E" INDICATES EXTENDER CARD THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2 CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

INTERVAL CHART

				_								_		_			
SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	< 6		<6		≪F¥	***	≪F¥	***	≺R	≺R	≺R	≺R	≺R	≺R	≺R	≺R	<r< del="">−</r<>
2&3	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4	<r< del=""></r<>	≺R	≺R	≪R	<r< del=""></r<>	<r< del=""></r<>	<r< del=""></r<>	≪R	< 6		<fy< del=""></fy<>	•••	< 6	*	≪F¥	***	
5&6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	<6	*	≺F¥	***	< 6		≺FY	***	≺R	≺R	≺R	≺R	≺R	≺R	≺R	≪R	
8&9	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
10	≺R	≺R	≺R	≪R	≺R	≪R	≺R	≪R	< 6	*	< 6		<fy< del=""></fy<>	***	≪FY	***	
11&12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
13&14	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
15,16,17&18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	w	FDW	DW	DW	w	FDW	BLANK
19&20	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
21,22,23&24	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLANK

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

DATE: 11/3/17 FILE NAME: GER SIG

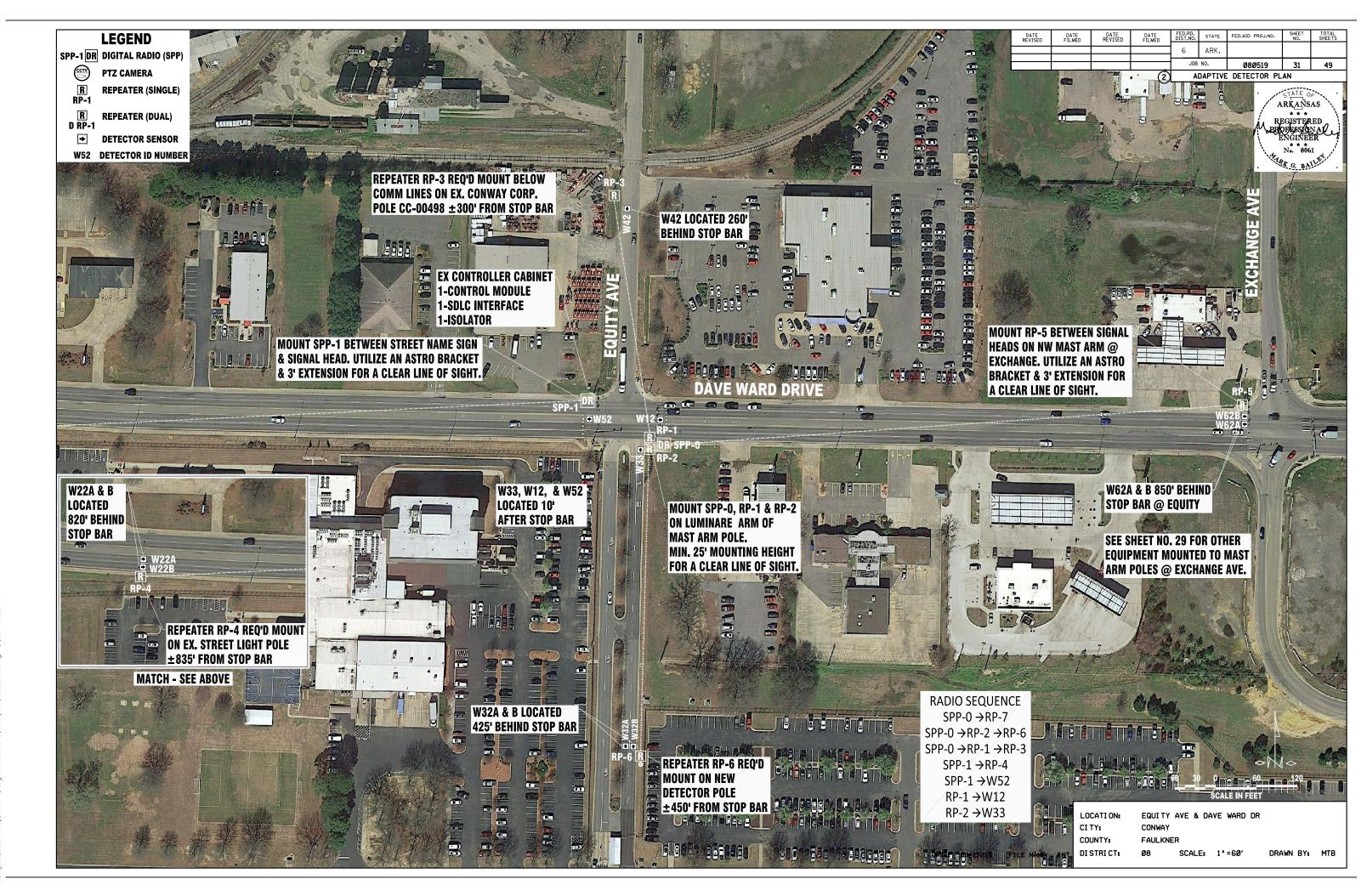
••• DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: S. GERMAN LN & DAVE WARD DR CITY:

CONWAY COUNTY: FAULKNER

DISTRICT:

Ø8 SCALE: N/A DRAWN BY: MTB



	DETECTOR A	SSIGNMENTS	7				
DETECTOR I.D. NUMBER	DIRECTION	ON TYPE DETECTOR NUMBER		RADIO SEQUENCE	COMMENTS		
W33	NB RT	FILTER	17	RP-2 > SPP-0	AFTER STOP BAR SENSOR		
W32A	NB ADV	NORMAL	18	RP-6 > RP-2 > SPP-0	ADVANCE SENSOR		
W32B	NB ADV	NORMAL	19	RP-6 > RP-2 > SPP-0	ADVANCE SENSOR		
W12	WB LT	FILTER	20	RP-1 > SPP-0	AFTER STOP BAR SENSOR		
W62A	WB ADV	NORMAL	21	RP-5 > SPP-0	ADVANCE SENSOR		
W62B	WB ADV	NORMAL	22	RP-5 > SPP-0	ADVANCE SENSOR		
W42	SB ADV	NORMAL	23	RP-3 > RP-1 > SPP-0	ADVANCE SENSOR		
W52	EB LT	FILTER	24	SPP-1	AFTER STOP BAR SENSOR		
W22A	EB ADV	NORMAL	25	RP-4 > SPP-1	ADVANCE SENSOR		
W22B	EB ADV	NORMAL	26	RP-4 > SPP-1	ADVANCE SENSOR		

Detectors are wireless vehicle detector sensors. All detectors use BIU 2.

(FOR E/B REPEATER)

6 ARK. Ø8Ø519

ADAPTIVE DETECTOR DETAIL

FED.RD. STATE FED.AID PROJ.NO.



32

INTERSECTION PICTURES

NW MAST ARM POLE EXCHANGE AVE

STREET LIGHT POLE



CONTROLLER CABINET



UTILITY POLE CC-00498

N/B REPEATER AREA ON NEW DETECTOR POLE

INTERSECTION NOTES

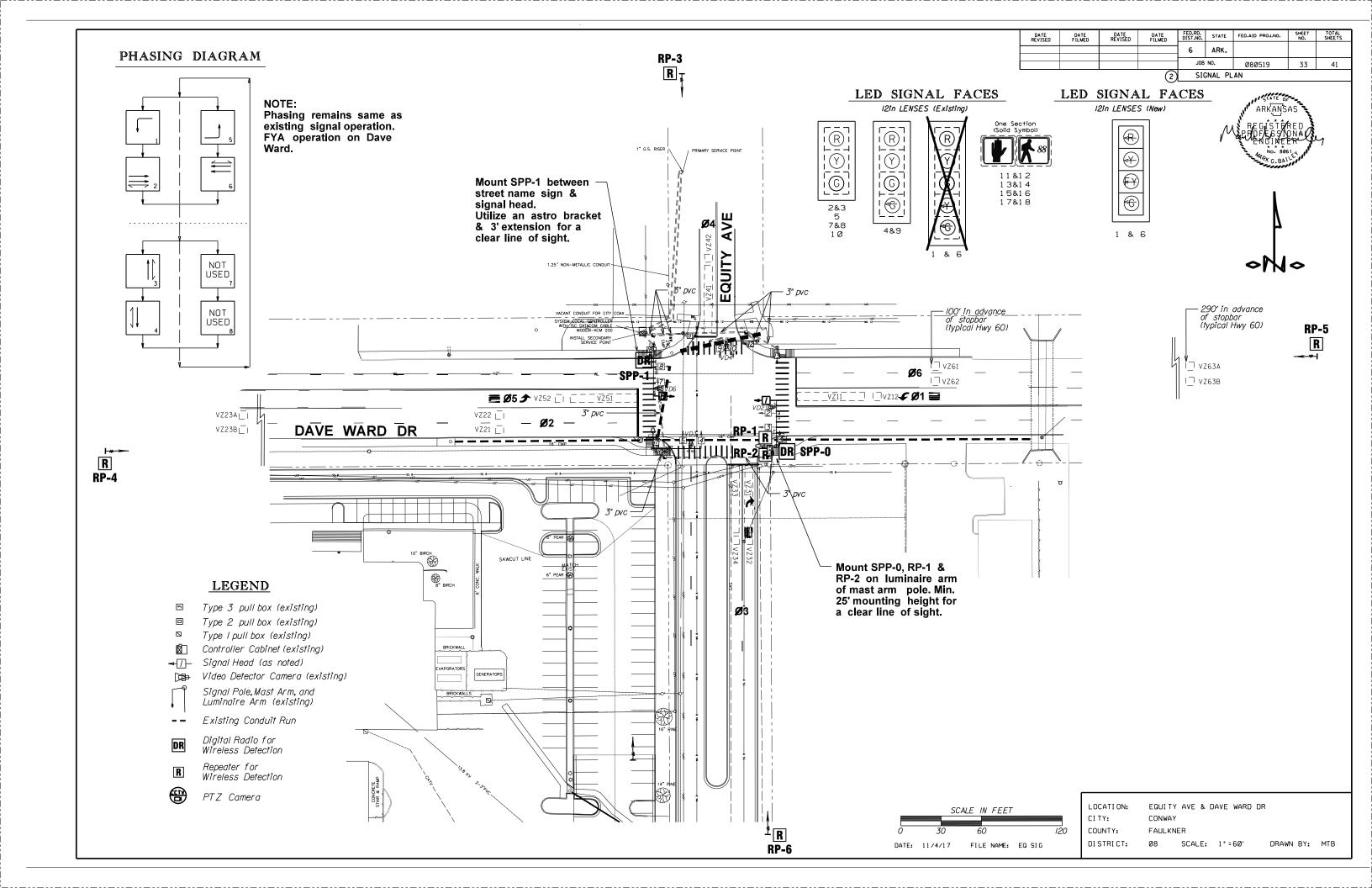
- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS (TWO TOTAL) WITH 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. CONTROLLER SHALL RUN IN COMPACT MODE. EXISTING LOAD BAY IS MODEL TF4212.
- 4. CONTRACTOR TO REPLACE EXISTING VANTAGE PLUS VIDEO DETECTION PROCESSING EQUIPMENT WITH NEW VIDEO PROCESSOR EDGE CARDS (2 CAMERA). NEW VEHICLE DETECTOR RACK (16 CHANNEL) REQUIRED. SEE SIGNAL PLAN DETECTOR CHART FOR DETECTOR ASSIGNMENTS. EXISTING VIDEO DETECTION CAMERAS AND CABLING TO REMAIN IN PLACE.
- 5. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.
- 6. EXISTING PREEMPT FOR FIRE STATION TO REMAIN IN PLACE AND OPERATIONAL.

CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES). CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.

DATE: 09/17/15 FILE NAME: DEQ EQUITY AVE & DAVE WARD DR

LOCATI ON: CI TY: CONWAY COUNTY **FAULKNER**

DI STRI CT: SCALE: N/A DRAWN BY: MTB



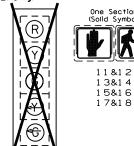
PHASING DIAGRAM NOT USED NOT USED

Phasing remains same as existing signal operation. FYA operation on Dave Ward.

LED SIGNAL FACES

I2în LENSES (Existing)

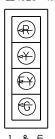




13&14

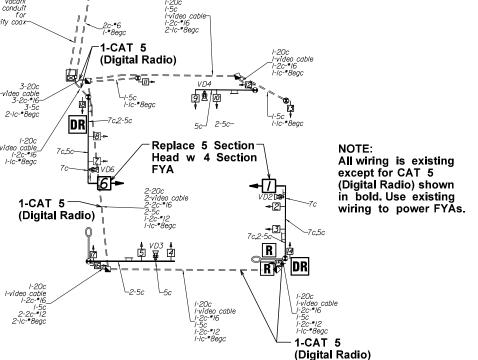
LED SIGNAL FACES

I2în LENSES (New)



WIRING DIAGRAM NOT TO SCALE

FED.RD. DIST.NO. STATE SHEET TOTAL SHEETS DATE REVISED DATE FILMED DATE REVISED DATE FILMED 6 ARK. JOB NO. 34 49 080519 SIGNAL PLAN SHEET



DATE: 11/4/17 FILE NAME: EQ SIG

LEGEND Type 3 pull box (existing) Type 2 pull box (existing) Type I pull box (existing) Controller Cabinet (existing) Signal Head (as noted) **◄**//-Video Detector Camera (existing) Signal Pole, Mast Arm, and Luminaire Arm (existing) Existing Conduit Run

> Digital Radio for Wireless Detection

Repeater for Wireless Detection

PTZ Camera

All wiring is existing except for CAT 5 (Digital Radio) shown in bold, Use existing wiring to power FYAs.

DETECTOR CHART

			DET			DESCRIP					
С	onway-Dave Ward Dr(Hwy.6	, , ,			WARE IN				SSIGNMENTS		
	DETECTOR ASSIGNME	NTS		B۱	/ SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB.	AMP	CON.	PHS	SYSTEM	DETECTOR	COMMENTS	LENGTHS
			DL1.#	TRM.#	CHN.#	SDLC#	110	DET.#	NUMBERS		
Vz11	WB LEFT TURN NEAR	LOCAL				1	1			CAMERA V6	23"
Vz12	WB LEFT TURN FAR	COMB.				33	1	1		CAMERA V6	23"
Vz21	EB OUTSIDE NEAR	COMB.				34	2	2		CAMERA V2	
Vz22	EB INSIDE NEAR	COMB.				35	2			CAMERA V2	37"
Vz23 A&B	EB INSIDE FAR	LOCAL				2	2			CAMERA V2	37"
Vz31	NB THRU RIGHT NEAR	LOCAL				8	3			CAMERA V3	37"
Vz32	NB THRU RIGHT FAR	SYS				36		8		CAMERA V3	37"
Vz33	NB LEFT NEAR	LOCAL				3				CAMERA V3	
Vz34	NB LEFT FAR	SYS				37		3		CAMERA V3	
Vz41	SB INSIDE NEAR	LOCAL				4	4			CAMERA V4	23"
Vz42	SB INSIDE FAR	SYS				38		4		CAMERA V4	37"
Vz51	EB LEFT TURN NEAR	LOCAL				5	5			CAMERA V2	37"
Vz52	EB LEFT TURN FAR	COMB				39	5	5		CAMERA V2	37"
Vz61	WB OUTSIDE NEAR	COMB.				40	6	6		CAMERA V6	
Vz62	WB INSIDE NEAR	COMB.				41	6	7		CAMERA V6	
Vz63 A&B	WB OUTSIDE FAR	LOCAL				6	6			CAMERA V6	37"
PB2 A&B	EQUITYS. LEG	PED.				P2	2				
PB3 A&B	DAVE WARD E. LEG	PED.				P3	3				
PB6 A&B	EQUITY N. LEG	PED.				P6	6				
PB4 A&B	DAVE WARD W. LEG	PED.				P4	4				

CONTROLLER INPUT ABBREVIATIONS

- V = VEHICLE INPUT
- D = SYSTEM OR AUXILIARY INPUT
- P = PEDESTRAN INPUT
- NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)
- TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM NPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE
 - "AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OUTPUT POSITION. , "E" INDICATES EXTENDER CARD
 - THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2
 - CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3	CLR.	4	CLR.	FLASH SEQ.
1	< 6	*	< 6	•	≪FY	***	≪FY	***	≪R	≺R	≪R	≺R	<r< del="">−</r<>
2&3	R	R	R	R	G	**	G	**	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R	Y	G _G	R	R
5	R	R	R	R	R	R	R	R	R	Υ	G	R	R
6	< 6	*	≪FY	***	< 6	•	≪FY	• • •	≪R	<r< del=""></r<>	≪R	≺R	≪R
7&8	R	R	G	**	G	••	G	••	R	R	R	R	R
9	R	R	R	R	R	R	R	R	G _G	R	R	Υ	R
10	R	R	R	R	R	R	R	R	G	R	R	Υ	R
11&12	DW	DW	w	FDW	DW	DW	w	FDW	DW	DW	DW	DW	BLANK
13&14	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	BLANK
15&16	DW	DW	DW	DW	w	FDW	w	FDW	DW	DW	DW	DW	BLANK
17&18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	BLANK

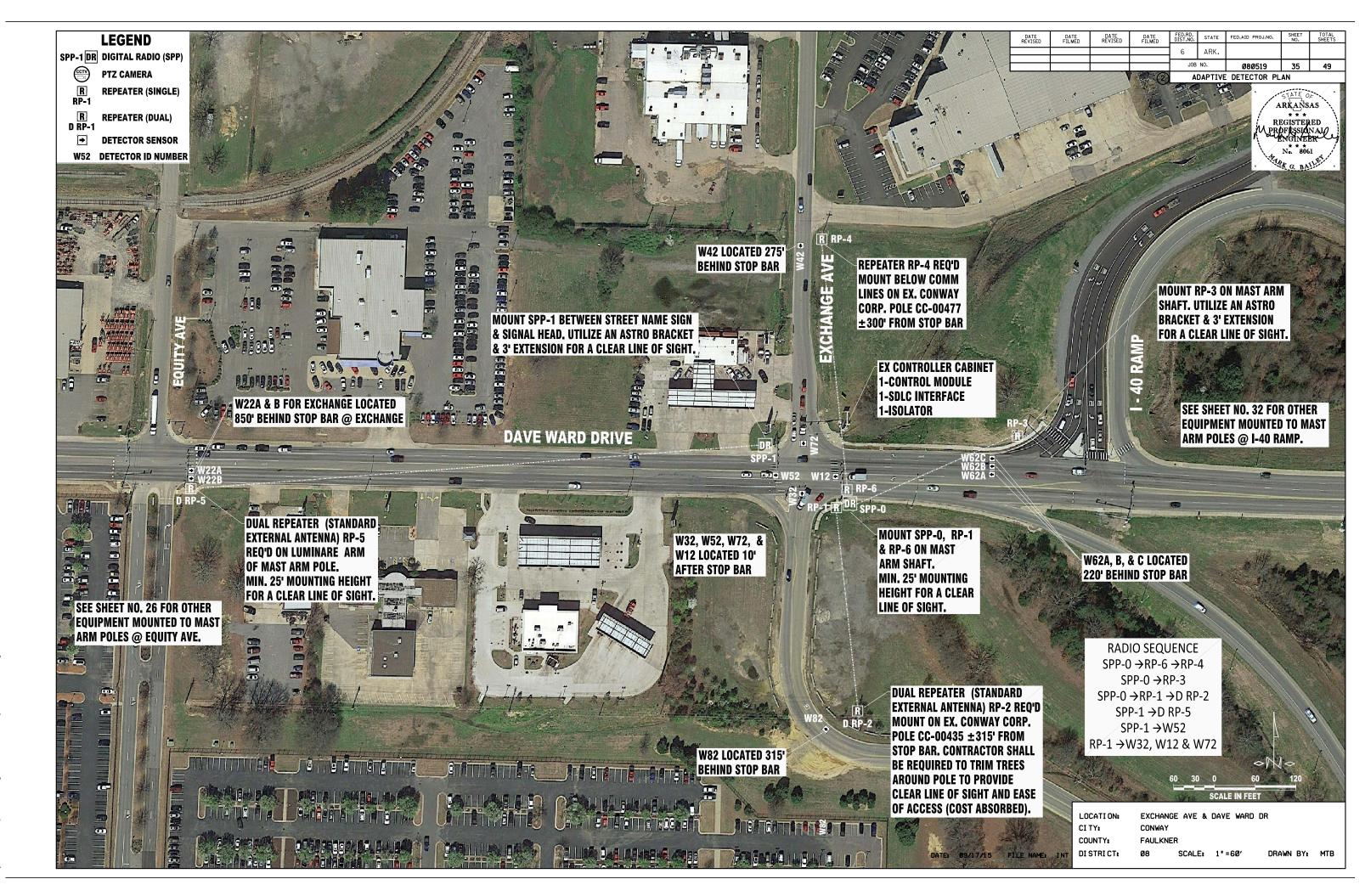
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- •• DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- ••• DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: EQUITY AVE & DAVE WARD DR

CITY: CONWAY COUNTY: FAULKNER

DISTRICT: Ø8

SCALE: N/A DRAWN BY: MTB



S.\Projects\12286-Metroplan LRArk\Design Services Task 3\conway cad\intersections.dwg, 11/7/2017 9:13:56 A

	DETECTOR AS	SSIGNMENTS			X2.02-02-02-02-02-02-02-02-02-02-02-02-02-0		
DETECTOR I.D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS		
W32	NB LT	FILTER	17	RP-1 > SPP-0	AFTER STOP BAR SENSOR		
W82 *	NB ADV	NORMAL	18	D RP-2 > RP-1 > SPP-0	ADVANCE SENSOR		
W12	WB LT	FILTER	19	RP-1 > SPP-0	AFTER STOP BAR SENSOR		
W62A	WB ADV	NORMAL	20	RP-3 > SPP-0	ADVANCE SENSOR		
W62B	WB ADV	NORMAL	21	RP-3 > SPP-0	ADVANCE SENSOR		
W62C	WB ADV	NORMAL	22	RP-3 > SPP-0	ADVANCE SENSOR		
W72	EB LT	FILTER	23	RP-1 > SPP-0	AFTER STOP BAR SENSOR		
W42	SB ADV	NORMAL	24	RP-4 > RP-6 > SPP-0	ADVANCE SENSOR		
W52	EB LT	FILTER	25	SPP-1	AFTER STOP BAR SENSOR		
W62A *	EB ADV	NORMAL	26	D RP-5 > SPP-1	ADVANCE SENSOR		
W62B *	EB ADV	NORMAL	27	D RP-5 > SPP-1	ADVANCE SENSOR		

Detectors are wireless vehicle detector sensors.

All detectors use BIU 2.

* Uses dual repeater.

INTERSECTION NOTES

- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO RELOCATE OUTER EXISTING 3 SECTION SIGNAL HEADS (TWO TOTAL) ON EXCHANGE AVE. AND MOVE TOWARDS SHAFT (SEE SHEET 31). CONTRACTOR TO INSTALL 4 SECTION FLASHING YELLOW ARROW SIGNAL HEADS (TWO TOTAL) IN ORIGINAL LOCATION OF RELOCATED HEADS.
- 4. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION. CONTROLLER CABINET IS NEW 16 BAY CABINET. MODIFICATION TO INCLUDE ANYTHING REQUIRED TO OPERATE FYA ON EXCHANGE AVE. THIS INCLUDES, BUT IS NOT LIMITED TO, NEW LOAD SWITCHES, NEW VIDEO DETECTION ASSIGNMENTS AND ANY REWIRING THAT MAY BE REQUIRED IN THE CABINET.
- 5. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.
- CONTRACTOR REQUIRED TO TRIM TREES AND BUSHES AROUND CONWAY CORP. POLE CC-00435 TO PROVIDE CLEAR LINE OF SIGHT AND EASE OF MAINTENANCE (COST ABSORBED).

INTERSECTION PICTURES



SE MAST ARM POLE EQUITY AVE



NW MAST ARM POLE I-40 RAMP



UTILITY POLE CC-00477



TRIM TREES /
BUSHES AROUND POLE
(COST ABSORBED)





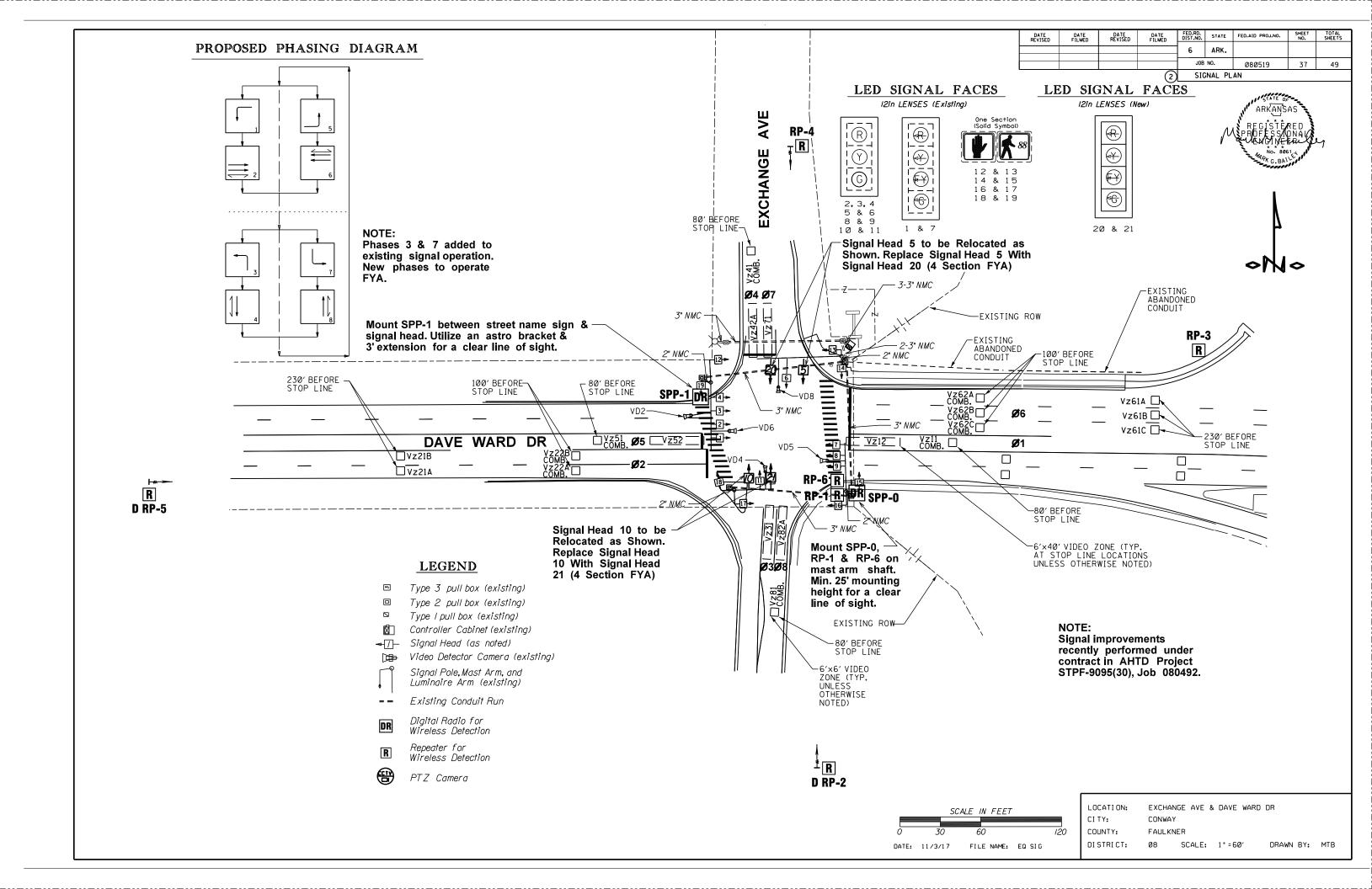
CONTROLLER CABINET

NOTE:
CONTRACTOR TO FURNISH REPEATERS TO
CONWAY CORP FOR INSTALLATION ON CONWAY
CORP OWNED UTILITY POLES (CC DESIGNATIONS
IN MOST CASES). CONTRACTOR SHALL INSTALL
REPEATERS, DIGITAL RADIOS, AND ANY OTHER
EQUIPMENT REQUIRED ON MAST ARM POLES
AND STREET LIGHT ONLY POLES.

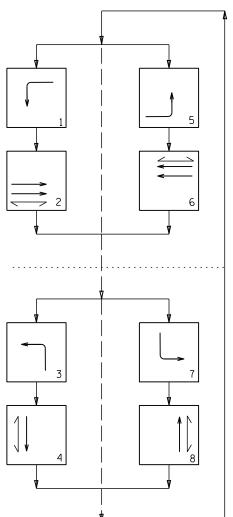
DATE: Ø9/17/15 FILE NAME: DEX

LOCATION: EXCHANGE AVE & DAVE WARD DR CITY: CONWAY

COUNTY: FAULKNER
DI STRI CT: Ø8 SCALE: N/A DRAWN BY: MTB



PROPOSED PHASING DIAGRAM



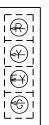
NOTE: Phases 3 & 7 added to existing signal operation. New phases to operate FYA.

LED SIGNAL FACES

I2în LENSES (Existing)



10 & 11



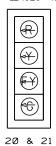
1 & 7



NOTE: Signal heads 5 &10 shall be relocated.

LED SIGNAL FACES

I2în LENSES (New)



NOTE: All new signal heads shall have backplates.

NOT TO SCALE [1-20c,1-5c, 2-VC,1-Ic*8EGC I-20c, 2-I2c, 2-5c, 2-VC, I-Ic*8EGC. Signal Head 5 to be -Relocated as Shown, I-I2c,I-5c, I-VC,2-Ic*8EGC Replace Signal Head 1-2c*6, 1-1c*8EGC 5 With Signal Head 20 (4 Section FYA) 2-CAT 5 SERVICE POINT (Digital Radio) 1-CAT 5 I-20c, 2-I2c, 2-5c, 2-VC, I-Ic*8EGC, I-I2c,I-5c, I-VC,2-Ic*8EGC (Digital I-I2c, I-5c. I-VC, 2-Ic*8EGC Radio) Use Existing 1-5c I-20c, 2-I2c, 2-5c, 2-VC, I-Ic*8EGC. 1-CAT 5 (Digital Radio) Use Existing 1-5c 1-CAT 5 (Digital Radio) 1-7c/14 - *I-VC* -- 1-5c Signal Head 10 to be Relocated as Shown. Replace Signal Head 10 With Signal Head 21 (4 Section FYA)

WIRING DIAGRAM

SIGNAL PLAN SHEET **LEGEND** Type 3 pull box (existing) Type 2 pull box (existing) Type I pull box (existing) Controller Cabinet (existing) Signal Head (as noted) **◄**//-Video Detector Camera (existing) Signal Pole, Mast Arm, and Luminaire Arm (existing) Existina Conduit Run Digital Radio for Wireless Detection Repeater for Wireless Detection PTZ Camera

080519

38 49

FED.RD. DIST.NO. STATE

JOB NO.

6 ARK.

DATE REVISED DATE FILMED DATE REVISED DATE FILMED

DETECTOR CHART

			DE	TECTOR	SYSTEM	DESCRI	TION: JC	DB 080519			
Conway-l	Dave Ward Dr(Hwy.60)/ EX	KCHANG	E AVE.	HARD	WAREIN	IPUTS	Р	ROGRAM AS	SSIGNMENTS		
	DETECTOR ASSIGNME	ENTS		B١	SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB. TRM.#	AMP CHN.#	CON. IMP.#	PHS	SYSTEM DET.#	DETECTOR NUMBERS	COMMINICIATS	LENGTHS
Vz11	WB LEFT TURN	COMB.			1	V9(D1)	1	1		CAMERA V6	23"
Vz12	WB LEFT TURN FAR	LOCAL			2	V1				CAMERA V6	
Vz21 A&B	WB FAR	LOCAL			5	V2	2			CAMERA V2	23"
Vz22 A&B	WB NEAR	COMB.			6	V10(D2)	2	2		CAMERA V5	23"
Vz31	NB LEFT TURN	LOCAL			15	V3	3			CAMERA V8	23"
NOTE: VZ	82B REASSIGNED TO V	Z31 WITI	ADDED	PHASE	3						
Vz41	SB ADVANCE	COMB.			9	V12(D4)	4			CAMERA V4	23"
Vz42	SB NEAR	LOCAL			10	V4	4	4		CAMERA V4	23"
Vz51	EB LEFT TURN FAR	COMB			7	V13(D5)	5	5		CAMERA V5	37"
Vz52	EB LEFT TURN	LOCAL			8	v5				CAMERA V5	23"
Vz61 A&B	EB FAR	LOCAL			3	V6	6			CAMERA V6	23"
Vz62 A&B	EB NEAR	COMB.			4	V14(D6)	6			CAMERA V6	23"
Vz71	SB LEFT TURN	LOCAL			11	V7	7			CAMERA V4	23"
NOTE: VZ	42B REASSIGNED TO V	Z71 WITI	ADDED	PHASE	7						
Vz81	NB ADVANCE	COMB.			13	V16(D8)	8	8		CAMERA V8	23"
Vz82	NB NEAR	LOCAL			14	V8	8			CAMERA V8	23"
PB2 A&B	EXCHANGE N. LEG	PED.				P2	2				
PB4 A&B	DAVE WARD W. LEG	PED.				P4	4				
PB6 A&B	EXCHANGE S. LEG	PED.				P6	6				
PB8 A&B	DAVE WARD E. LEG	PED.				P8	8				

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM INPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE NOTE: "AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OUTPUT POSITION.

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE. EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2 CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

NOTE:
All wiring is existing except for CAT
5 (Digital Radio) and FYA Cable
(1-7c/14 A.W.G) shown in bold.

DATE: 11/3/17 FILE NAME: EQ SIG

INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	<6		< 6		< F¥	***	≪F¥	•••	<r< del=""></r<>	≺R	≪R	<r< del=""></r<>	< R	≺R	<r< del=""></r<>	<r< del=""></r<>	≪R
2,3&4	R	R	G	**	R	R	G	••	R	R	R	R	R	R	R	R	R
5&6	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
7	< 6	*	≪FY	***	< 6	*	≪FY	***	≪R	≪R	≪R	≪R	√R	≪R	≪R	≪R	₹-
8&9	R	R	R	R	G	••	G	•	R	R	R	R	R	R	R	R	R
10&11	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
20	≺R	≪R	≺R	≪R	≺R	≪R	≺ R	≪R	< 6	*	< 6	*	√FY	***	<f< del="">¥</f<>	***	₹-
21	<r< del=""></r<>	≪R	≺R	<r< del=""></r<>	≺R	<r< del=""></r<>	≺R	<r< del=""></r<>	< 6		<fy< del=""></fy<>	***	√ 6	*	≪FY	***	
12&13	DW	DW	w	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
14&15	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLANK
16&17	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
18&19	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLANK

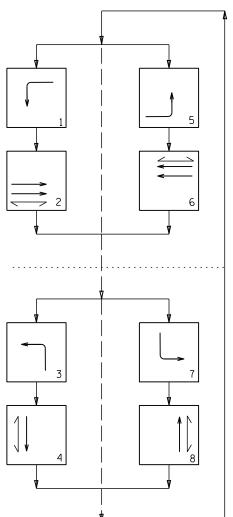
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- •• DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: EXCHANGE AVE & DAVE WARD DR

CITY: CONWAY
COUNTY: FAULKNER

DISTRICT: 08 SCALE: N/A DRAWN BY: MTB

PROPOSED PHASING DIAGRAM



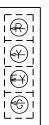
NOTE: Phases 3 & 7 added to existing signal operation. New phases to operate FYA.

LED SIGNAL FACES

I2în LENSES (Existing)



10 & 11



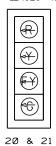
1 & 7



NOTE: Signal heads 5 &10 shall be relocated.

LED SIGNAL FACES

I2în LENSES (New)



NOTE: All new signal heads shall have backplates.

NOT TO SCALE [1-20c,1-5c, 2-VC,1-Ic*8EGC I-20c, 2-I2c, 2-5c, 2-VC, I-Ic*8EGC. Signal Head 5 to be -Relocated as Shown, I-I2c,I-5c, I-VC,2-Ic*8EGC Replace Signal Head 1-2c*6, 1-1c*8EGC 5 With Signal Head 20 (4 Section FYA) 2-CAT 5 SERVICE POINT (Digital Radio) 1-CAT 5 I-20c, 2-I2c, 2-5c, 2-VC, I-Ic*8EGC, I-I2c,I-5c, I-VC,2-Ic*8EGC (Digital I-I2c, I-5c. I-VC, 2-Ic*8EGC Radio) Use Existing 1-5c I-20c, 2-I2c, 2-5c, 2-VC, I-Ic*8EGC. 1-CAT 5 (Digital Radio) Use Existing 1-5c 1-CAT 5 (Digital Radio) 1-7c/14 - *I-VC* -- 1-5c Signal Head 10 to be Relocated as Shown. Replace Signal Head 10 With Signal Head 21 (4 Section FYA)

WIRING DIAGRAM

SIGNAL PLAN SHEET **LEGEND** Type 3 pull box (existing) Type 2 pull box (existing) Type I pull box (existing) Controller Cabinet (existing) Signal Head (as noted) **◄**//-Video Detector Camera (existing) Signal Pole, Mast Arm, and Luminaire Arm (existing) Existina Conduit Run Digital Radio for Wireless Detection Repeater for Wireless Detection PTZ Camera

080519

38 49

FED.RD. DIST.NO. STATE

JOB NO.

6 ARK.

DATE REVISED DATE FILMED DATE REVISED DATE FILMED

DETECTOR CHART

			DE	TECTOR	SYSTEM	DESCRI	TION: JC	DB 080519			
Conway-l	Dave Ward Dr(Hwy.60)/ EX	KCHANG	E AVE.	HARD	WAREIN	IPUTS	Р	ROGRAM AS	SSIGNMENTS		
	DETECTOR ASSIGNME	ENTS		B١	SUPPLI	ER	L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB. TRM.#	AMP CHN.#	CON. IMP.#	PHS	SYSTEM DET.#	DETECTOR NUMBERS	COMMINICIATS	LENGTHS
Vz11	WB LEFT TURN	COMB.			1	V9(D1)	1	1		CAMERA V6	23"
Vz12	WB LEFT TURN FAR	LOCAL			2	V1				CAMERA V6	
Vz21 A&B	WB FAR	LOCAL			5	V2	2			CAMERA V2	23"
Vz22 A&B	WB NEAR	COMB.			6	V10(D2)	2	2		CAMERA V5	23"
Vz31	NB LEFT TURN	LOCAL			15	V3	3			CAMERA V8	23"
NOTE: VZ	82B REASSIGNED TO V	Z31 WITI	ADDED	PHASE	3						
Vz41	SB ADVANCE	COMB.			9	V12(D4)	4			CAMERA V4	23"
Vz42	SB NEAR	LOCAL			10	V4	4	4		CAMERA V4	23"
Vz51	EB LEFT TURN FAR	COMB			7	V13(D5)	5	5		CAMERA V5	37"
Vz52	EB LEFT TURN	LOCAL			8	v5				CAMERA V5	23"
Vz61 A&B	EB FAR	LOCAL			3	V6	6			CAMERA V6	23"
Vz62 A&B	EB NEAR	COMB.			4	V14(D6)	6			CAMERA V6	23"
Vz71	SB LEFT TURN	LOCAL			11	V7	7			CAMERA V4	23"
NOTE: VZ	42B REASSIGNED TO V	Z71 WITI	ADDED	PHASE	7						
Vz81	NB ADVANCE	COMB.			13	V16(D8)	8	8		CAMERA V8	23"
Vz82	NB NEAR	LOCAL			14	V8	8			CAMERA V8	23"
PB2 A&B	EXCHANGE N. LEG	PED.				P2	2				
PB4 A&B	DAVE WARD W. LEG	PED.				P4	4				
PB6 A&B	EXCHANGE S. LEG	PED.				P6	6				
PB8 A&B	DAVE WARD E. LEG	PED.				P8	8				

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY; COMB = ACTUATES PHASE AND SYSTEM INPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE NOTE: "AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OUTPUT POSITION.

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE. EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2 CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

NOTE:
All wiring is existing except for CAT
5 (Digital Radio) and FYA Cable
(1-7c/14 A.W.G) shown in bold.

DATE: 11/3/17 FILE NAME: EQ SIG

INTERVAL CHART

SIGNAL FACES	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQ.
1	<6		< 6		< F¥	***	<f< del="">¥</f<>	•••	<r< del=""></r<>	≺R	≪R	<r< del=""></r<>	< R	≺R	<r< del=""></r<>	<r< del=""></r<>	≪R
2,3&4	R	R	G	**	R	R	G	••	R	R	R	R	R	R	R	R	R
5&6	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
7	< 6	*	≪FY	***	< 6	*	≪FY	***	≪R	≪R	≪R	≪R	√R	≪R	≪R	≪R	₹-
8&9	R	R	R	R	G	••	G	•	R	R	R	R	R	R	R	R	R
10&11	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
20	≺R	≪R	≺R	≪R	≺R	≪R	≺ R	≪R	< 6	*	< 6	*	√FY	***	<f< del="">¥</f<>	***	₹-
21	<r< del=""></r<>	≪R	≺R	<r< del=""></r<>	<r< del=""></r<>	<r< del=""></r<>	≺R	<r< del=""></r<>	< 6		<fy< del=""></fy<>	***	√ 6	*	≪FY	***	
12&13	DW	DW	w	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
14&15	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLANK
16&17	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLANK
18&19	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLANK

- 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: EXCHANGE AVE & DAVE WARD DR

CITY: CONWAY
COUNTY: FAULKNER

DISTRICT: 08 SCALE: N/A DRAWN BY: MTB

WIRELESS DETECTOR CHART

	DETECTOR AS	SSIGNMENTS	0		
DETECTOR .D. NUMBER	DIRECTION	TYPE	DETECTOR NUMBER	RADIO SEQUENCE	COMMENTS
W62A *	WB ADV	NORMAL	17	D RP-3 > SPP-1	ADVANCE SENSOR
W62B *	WB ADV	NORMAL	18	D RP-3 > SPP-1	ADVANCE SENSOR
W62C *	WB ADV	NORMAL	19	D RP-3 > SPP-1	ADVANCE SENSOR
W43A	SB RT	FILTER	20	RP-1 > SPP-1	AFTER STOP BAR SENSOR
W43B	SB RT	FILTER	21	RP-1 > SPP-1	AFTER STOP BAR SENSOR
W72A *	SB LT ADV	NORMAL	22	D RP-4 > SPP-0	ADVANCE SENSOR
W72B *	SB LT ADV	NORMAL	23	D RP-4 > SPP-0	ADVANCE SENSOR
W42A *	SB RT ADV	NORMAL	24	D RP-4 > SPP-0	ADVANCE SENSOR
W42B *	SB RT ADV	NORMAL	25	D RP-4 > SPP-0	ADVANCE SENSOR
W42C *	SB ADV	NORMAL	26	D RP-5 > SPP-0	ADVANCE SENSOR
W22A	EB ADV	NORMAL	27	RP-2 > RP-1 > SPP-1	ADVANCE SENSOR
W22B	EB ADV	NORMAL	28	RP-2 > RP-1 > SPP-1	ADVANCE SENSOR
W23	EB RAMP	FILTER	29	RP-1 > SPP-1	RAMP SENSOR

			0	Δ.	DAPTIVE	DETECTOR DE	TATI	
				J0B	NO.	Ø8Ø519	40	49
					F41414			
				1 6	ARK.			
REVISED	FILMED	KEVISED	FILMED	515111161			1101	OHELTO
DATE	DATE	DATE REVISED	DATE	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS

INTERSECTION PICTURES



STREET LIGHT POLE (S/B DUAL RP-5 REPEATER)



STREET LIGHT POLE (FOR W/B REPEATER)



CONTROLLER CABINET

DATE: 09/17/15 FILE NAME: DEX

DRAWN BY: MTB

LOCATI ON: CI TY: COUNTY DI STRI CT:

CONWAY **FAULKNER**

SCALE: N/A

I-40 EB RAMP & DAVE WARD DR



- 1. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLLER & MMU AND INSTALL WIRELESS DETECTION SENSORS & EQUIPMENT TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 2. SENSOR LOCATION AND RADIO REPEATER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SENSORS TO BE PLACED IN CENTER OF TRAVEL LANES. WHEN INSTALLING ROADWAY SENSORS, MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO ADVISE CONTRACTOR OF EXACT PLACEMENT OF WIRELESS DETECTION DEVICE LOCATIONS PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO INSTALL NEW PTZ CAMERA ON EXISTING NORTHEAST MAST ARM POLE. PTZ CAMERA REQUIRES EXTENSION TO MOUNT TO MAST ARM. CAMERA POWER AND SURGE PROTECTION DEVICES TO BE INSTALLED IN CONTROLLER CABINET.
- 4. CONTRACTOR SHALL FIELD VERIFY CAMERA SITE LOCATION AND ORIENTATION TO PROVIDE BEST COMPLETE COVERAGE OF ROADWAY PRIOR TO INSTALLING CAMERAS. LOCATIONS AND ORIENTATIONS TO BE APPROVED BY THE PROJECT ENGINEER. NO EXTRA PAY WILL BE ALLOWED IF CAMERA LOCATION MOVES TO DIFFERENT POLE.
- 5. INSTALL CABLING IN EXISTING CONDUIT AND PULLBOXES.



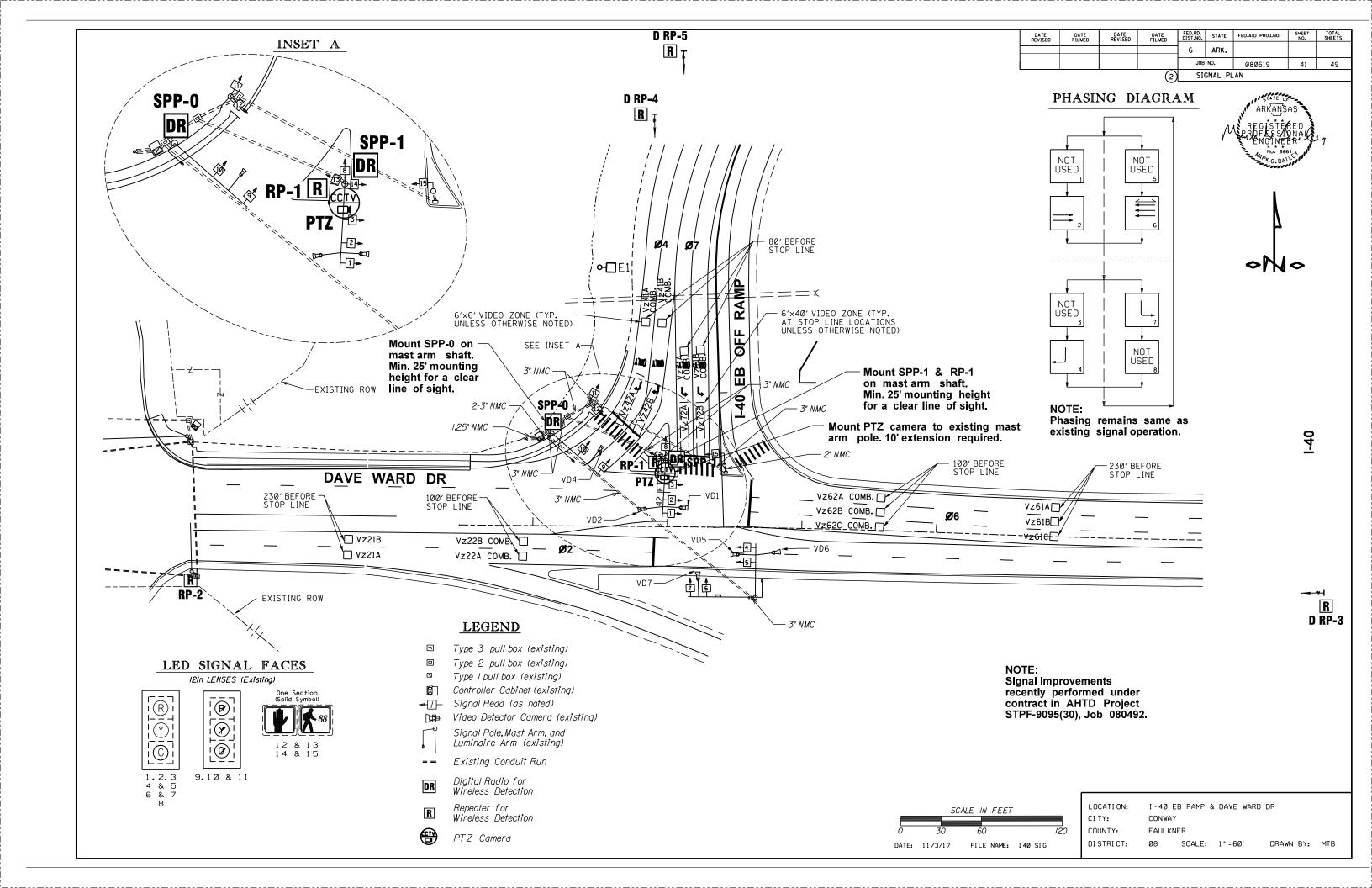
STREET LIGHT POLE (S/B DUAL RP-4 REPEATER)

SE MAST ARM POLE EXCHANGE AVE



PTZ MAST ARM POLE

CONTRACTOR TO FURNISH REPEATERS TO CONWAY CORP FOR INSTALLATION ON CONWAY CORP OWNED UTILITY POLES (CC DESIGNATIONS IN MOST CASES). CONTRACTOR SHALL INSTALL REPEATERS, DIGITAL RADIOS, AND ANY OTHER EQUIPMENT REQUIRED ON MAST ARM POLES AND STREET LIGHT ONLY POLES.



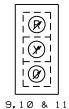
PHASING DIAGRAM NOT NOT USED USED NOT USED NOT USED

NOTE: Phasing remains same as existing signal operation.

LED SIGNAL FACES

I2în LENSES (Existing)

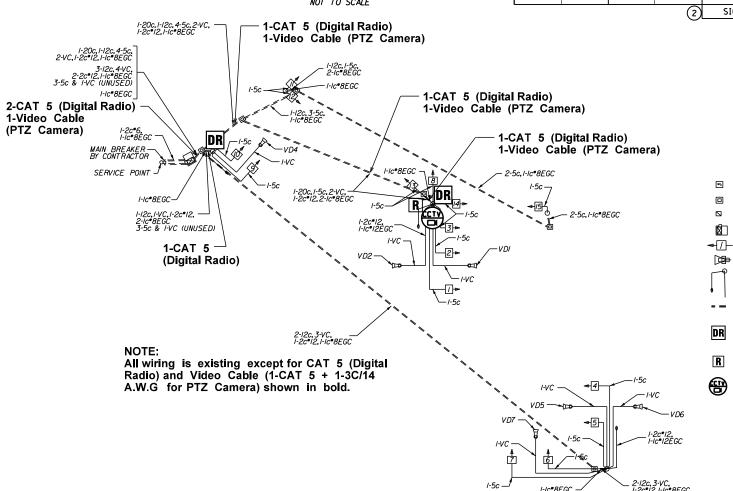






WIRING DIAGRAM NOT TO SCALE

FED.RD. DIST.NO. STATE SHEET TOTAL SHEETS DATE REVISED DATE FILMED DATE FILMED 6 ARK. JOB NO. 42 49 080519 SIGNAL PLAN SHEET



LEGEND

Type 3 pull box (existing)

Type 2 pull box (existing)

Type I pull box (existing)

Controller Cabinet (existing)

Signal Head (as noted) **◄**//-

Video Detector Camera (existing)

Signal Pole, Mast Arm, and Luminaire Arm (existing)

Existing Conduit Run

Digital Radio for Wireless Detection

Repeater for Wireless Detection

PTZ Camera

DETECTOR CHART

	DETECTOR SYSTEM DESCRIPTION: JOB 080519										
Conw	/ay-Dave Ward Dr(Hwy.60)/ I-	40 EB Ra	mp	HARD	WARE IN	PUTS	P	ROGRAM AS			
	DETECTOR ASSIGNME	NTS		BY SUPPLIER			L	OCAL	MASTER SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB.	AMP	CON.	PHS	DUC SYSTEM	DETECTOR	COMMENTS	LENGTHS
DL1.ID#	EOCATION DIRECTION	TIFL	DL1.#	TRM.#	CHN.#	IMP.#	FIIS	DET.#	NUMBERS		
Vz21A&B	EB FAR	LOCAL			1	V2	2			CAMERA V2	74"
Vz22 A&B	EB NEAR	COMB.			2	V10(D2)	2	2		CAMERA V5	74"
Vz41 A&B	SB RIGHT FAR	COMB.			9	V12(D4)	4	4		CAMERA V4	23"
Vz42 A&B	SB RIGHT NEAR	LOCAL			10	V4	4			CAMERA V4	23"
Vz61A,B,C	EB FAR	LOCAL			5	V6	6			CAMERA V6	74"
Vz62A,B,C	EB NEAR	LOCAL			6	V14(D6)	6	6		CAMERA V1	74"
Vz71	SB LEFT TURN IN FAR	COMB.			11	V15(D7)	7	7		CAMERA V7	23"
Vz72	SB LEFT TURN IN NEAR	LOCAL			12	V7	7			CAMERA V7	23"
PB6 A&B	I 40 Ramp N. LEG	PED.				P6	6				
									•		

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

NU = NOT USED (VIDEO OR OTHER DETECTOR IN PLACE BUT NOT IN SERVICE)

TYPE: LOCAL = ACTUATES PHASE ONLY, COMB = ACTUATES PHASE AND SYSTEM NPUT; SYS = SYSTEM ONLY, DOES NOT ACTUATE PHASE

"AMP CHN" = WHERE SHOWN THIS REFERS TO THE RACK OUTPUT POSITION. , "E" INDICATES EXTENDER CARD

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

CONTRACTOR SHOULD FIELD VERIFY DETECTOR ZONE TO CONTROLLER INPUT PRIOR TO PROGRAMMING CONTROLLER

INTERVAL CHART

SIGNAL FACES	2+6	CLR.	4+7	CLR.	FLASH SEQ.
1,2&3	G	Υ	R	R	R
4&5	G	Y	R	R	R
6,7&8	R	R	G	Υ	R
9,10&11	R	R	Ø	X	R
12&13	w	FDW	DW	DW	BLANK
14&15	w	FDW	DW	DW	BLANK

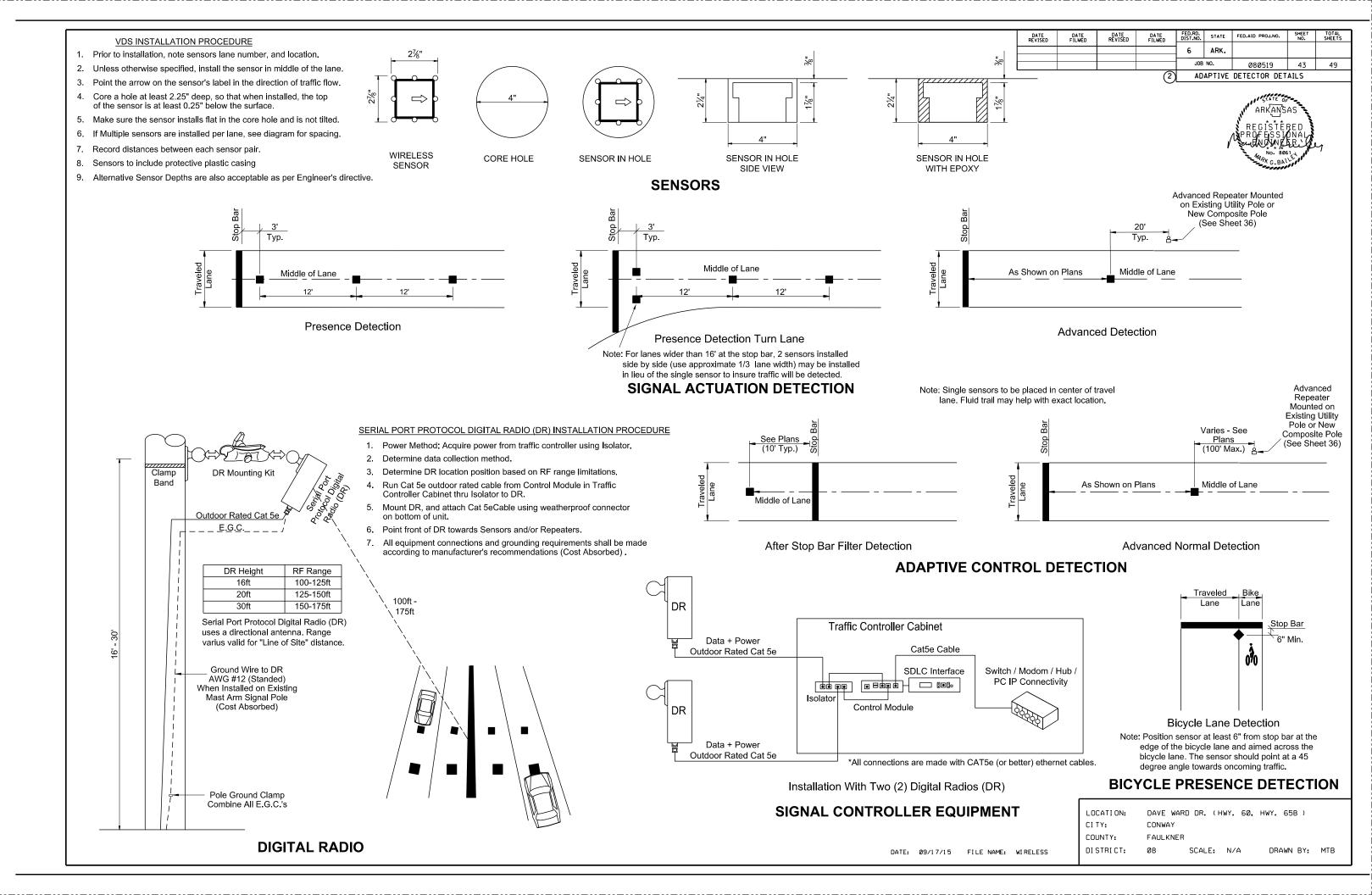
LOCATION: I-40 EB RAMP & DAVE WARD DR

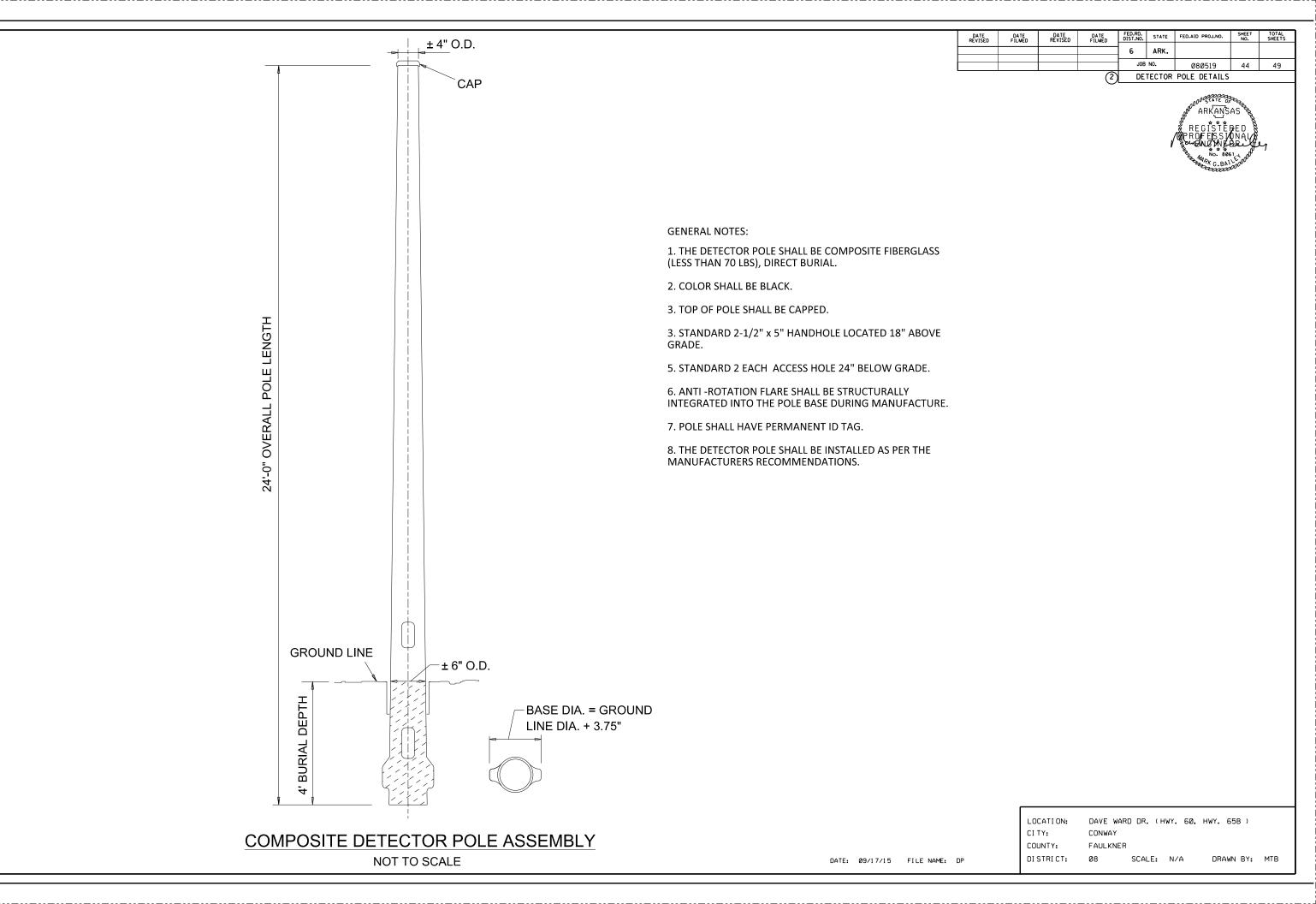
CITY: CONWAY COUNTY: FAULKNER

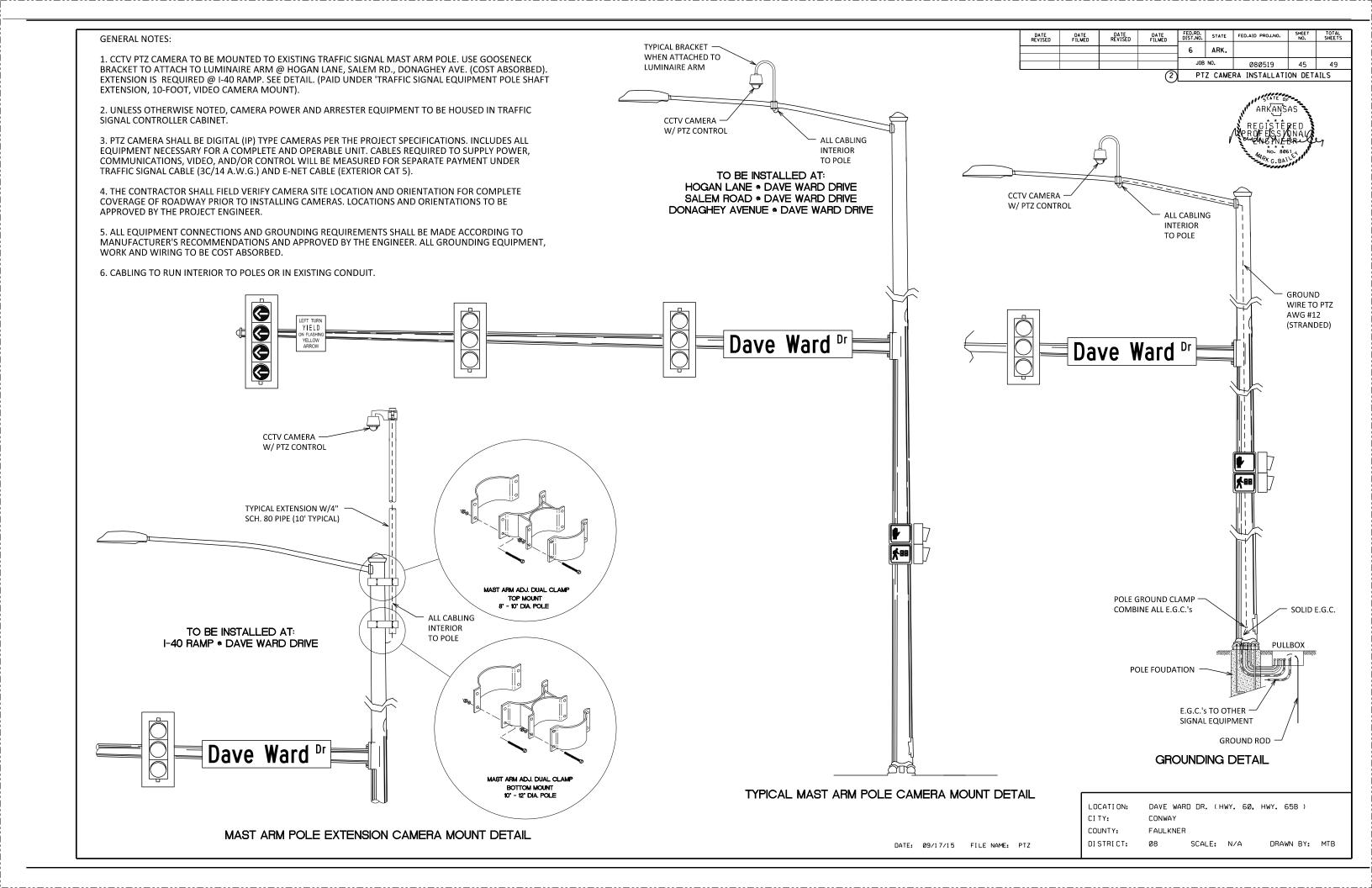
DISTRICT: SCALE: N/A

DRAWN BY: MTB

DATE: 11/3/17 FILE NAME: I40 SIG







NOTES:
PEDESTRIAN AND TRAFFIC SIGNAL HEAD SIGNS:
EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., I-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., I-WAY)" TO BE USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (RIO-IO) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE RIO-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON, ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY

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

GENERAL NOTES: I. MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS OF THE PLANS 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 INTERIMS.

USE FATIGUE CATEGORY IFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN MAST ARM OF 60'

USE FATIGUE CATEGORY IIFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH MAST ARMS LESS THAN 60'AND ON ROUTES WHERE THE SPEED LIMITS OF 45 MPH AND LESS WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY MIFOR ALL STRUCTURES WHERE THE SPEED LIMIT IS 45 MPH AND LESS AND MAST ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS: 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 ½" 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, TWELVE (12") INCH AND HAVE FIVE (5") INCH BACK PLATES:

SIGNAL HEADS AT THE END OF MAST ARM - ONE 4 SEC., 85 LB., 14.5 SQ., FT., ONE SIGN MOUNTED 3 FEET FROM SIGNAL HEAD 12'-0" X 2'-6"; 20 LB.) REMAINING SIGNAL HEADS SPACED AT 8 FT.(3 SEC., 56 LB., 8.3 SQ. FT.); DESIGN TO ACCOMMODATE: HEADS SPACED AT 8 FILLS SEC, 30 LB., 8.5 SULFIL DESIGN TO ACCOMMODATE: 2 SIGNAL HEADS FOR MAST ARMS 10 FT. TO 16 FT. 3 SIGNAL HEADS FOR MAST ARMS 18 FT. TO 24 FT. 4 SIGNAL HEADS FOR MAST ARMS OVER 26 FT.

STREET NAME SIGN - 72" X 18", 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAT 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 WT. 75 LB., 3.3 SO, FT.) PEDESTRIAN SIGNALS - TWO 1 SEC., 12 INCH MOUNTED 8 FT. FROM BASE OF POLE, POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE OF POLE.

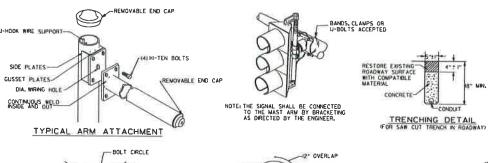
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST

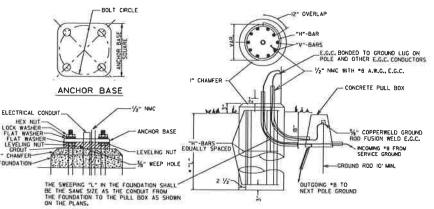
5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL, POLES GREATER THAN 21FT. IN HEIGHT (FOR ROADWAY LUMINAIRE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

6.POLE/MAST ARM TAPER SLOPE - AVERAGE TAPER OF SIGNAL MAST ARMS AND POLE SHAFT SHALL BE 0,125 TO 0.15 INCHES PER FOOT.

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 MAST ARM SHALL MAINTAIN A POSITIVE SLOPE AFTER IT IS PLACED

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



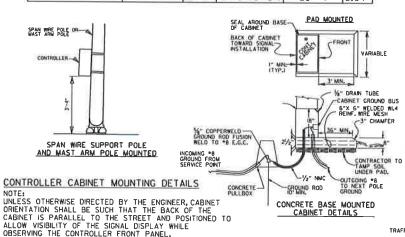


THE GROUND ROD SHALL BE FUSION WELDED TO A IC/"B A.W.G. SOLID COPPER GROUND WIRE, ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP, THE GROUND ROD IS TO BE LOCATED IN THE CONCRETE PULL BOX.

TYPICAL FOUNDATION DETAILS

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

ARM	FOUNDATION	DEPTH		STEEL	
LENGTH	DIAMETER	"L"*	VERTICAL	HORIZONTAL	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"	H'-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"



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

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 GREATER.

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

* 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 IS 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, LONGTUDINAL 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 DEXCEED 9" ON CENTERS. PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS.

FOR 2" SLIP-FIT LUMINAIRE—BY OTHERS, MAX. WT. 75 LB...

SIGNAL OPERATION NOTES:

-2.3" O.D.

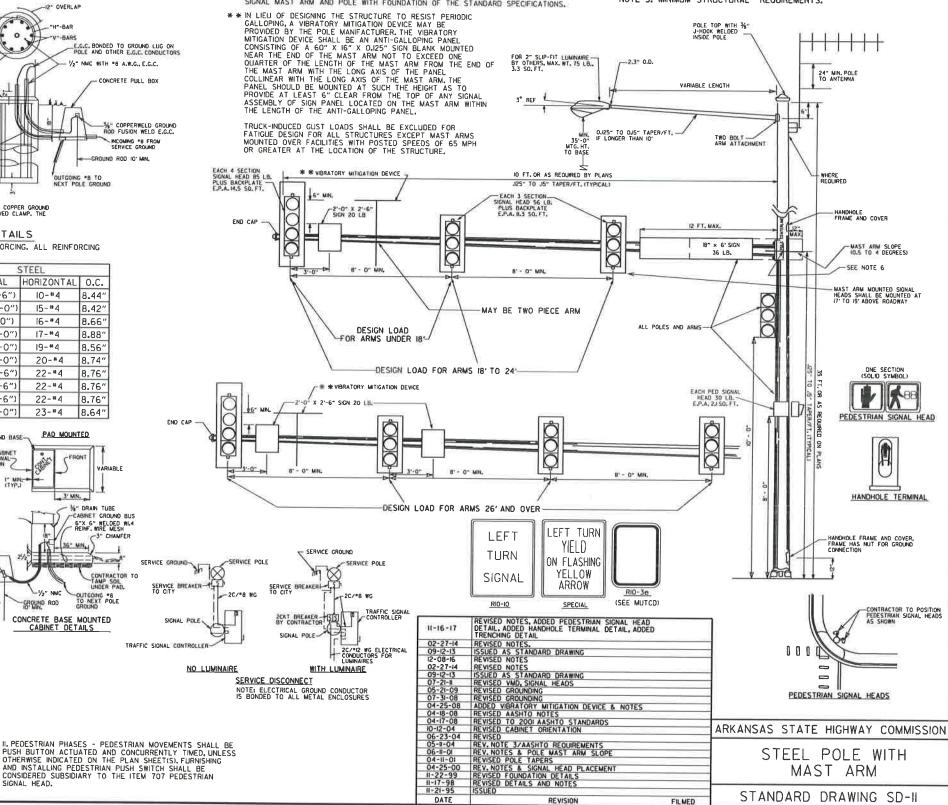
FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY OF VECTOR ENDIAN

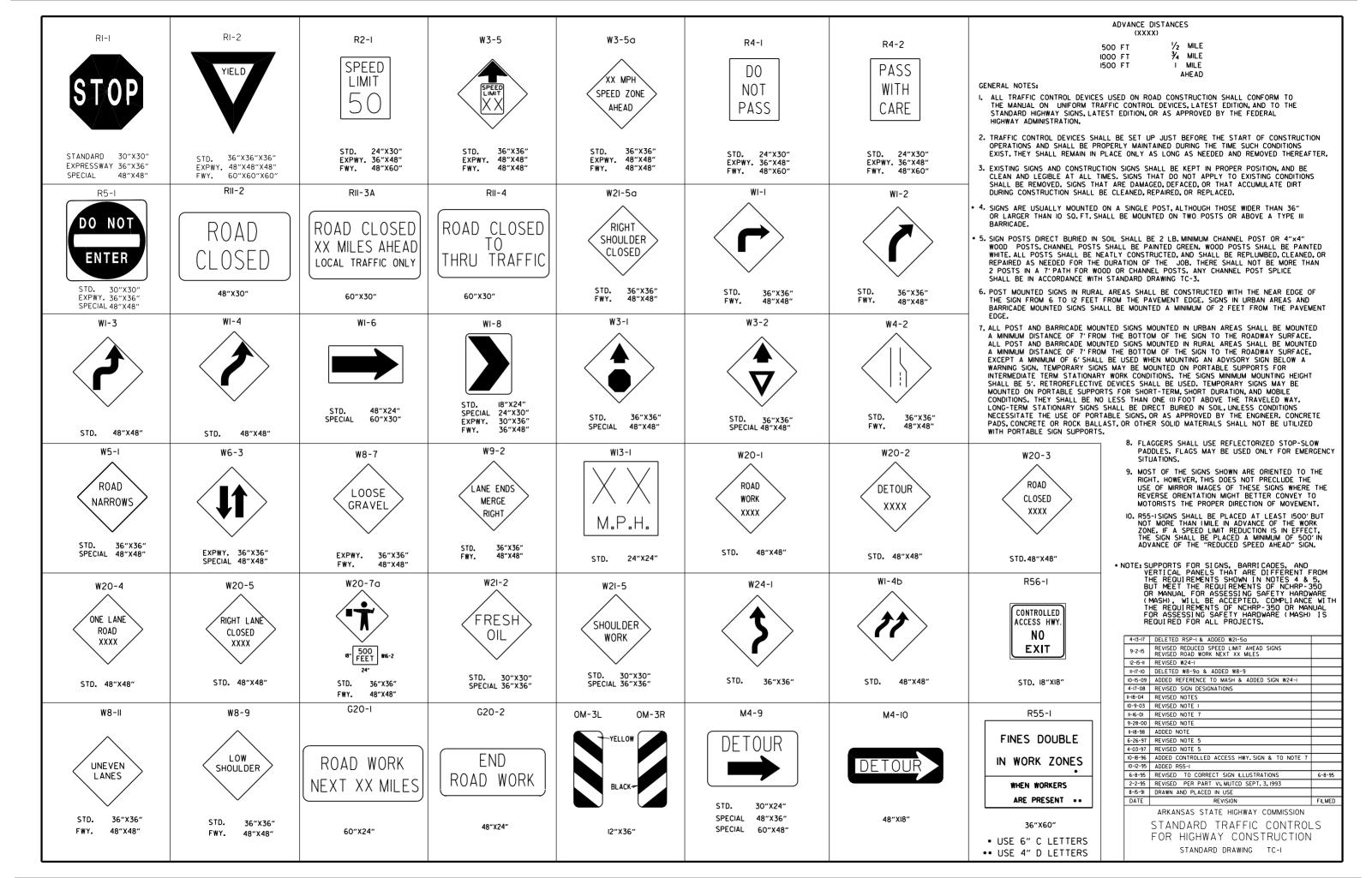
THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD, AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATION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

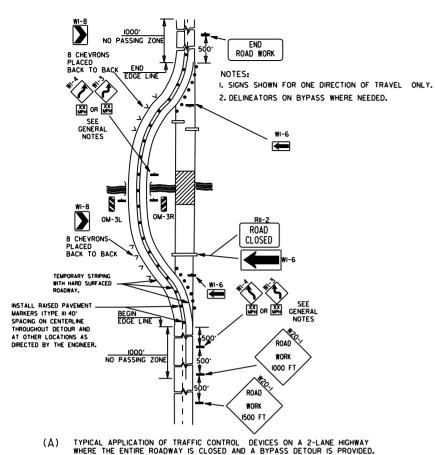
24" MIN. POLE TO ANTENNA

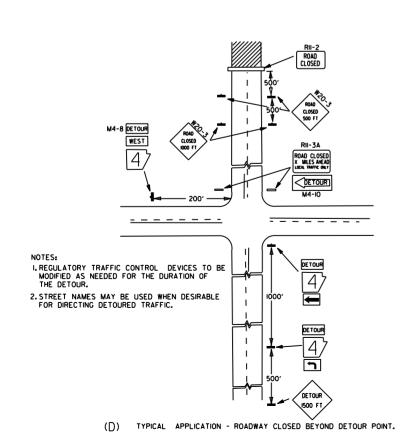
SPECIAL NOTE: 90 MPH WIND ZONE DESIGN. SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.

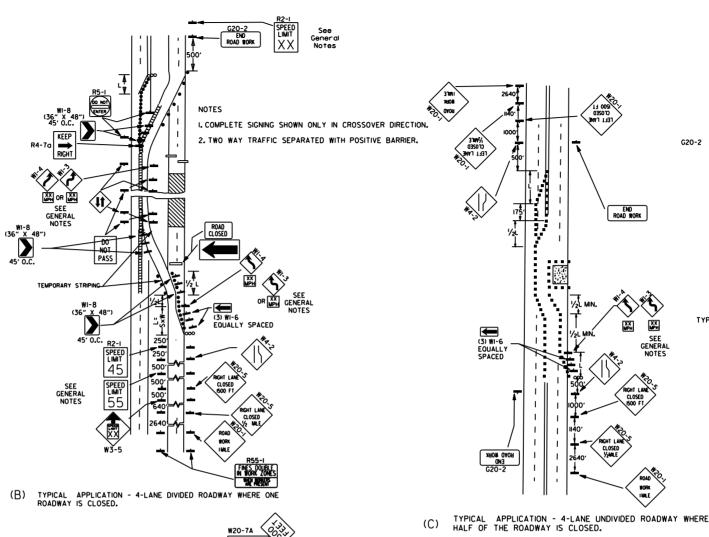
VARIABLE LENGTH





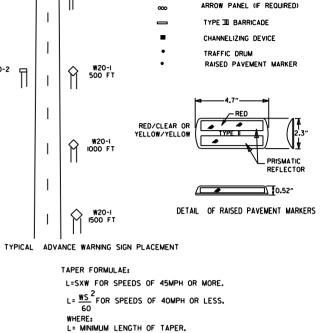






FND ROAD WORK (OPTIONAL) TRUCK MOUNTED ATTENUATOR G20-2 ROAD WORK END G20-2 ROAD WORK END

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



FLAGGER

POSITIVE BARRIER

GENERAL NOTES:

W= WIDTH OF OFFSET.

G20-I

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.

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

- 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 W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-KXX)
 SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
- 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 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.

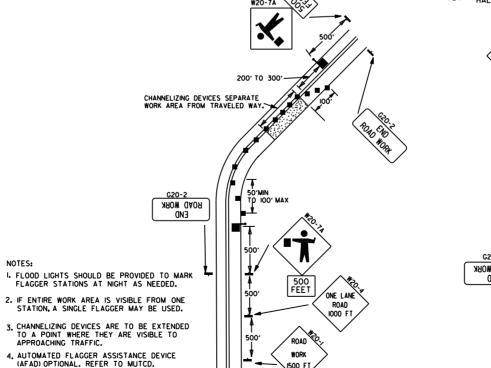
 5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEFDED.
- TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
- 6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
- 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 SUPE OF THE DEVICE
- 8. 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.

9-2-15	DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
II-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-I	
4-26-96	CORRECTED (a) BEHIND G20-2	
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	FILMED

ARKANSAS STATE HIGHWAY COMMISSION

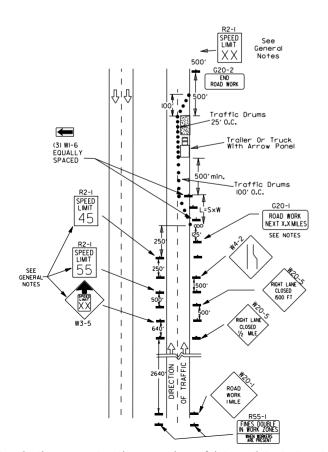
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2

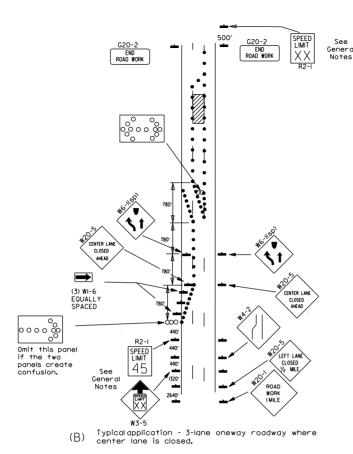


(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

(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.



○ Arrow Panel(If Required)

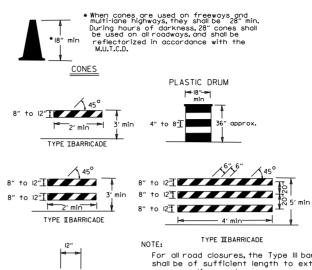
- Channelizing Device
- Traffic drum

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-I(55) shall be omitted and the W3-5 shall be installed at that location. Additional R2-I 45mph 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.
- 3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of I mile intervals. At the end of the work area a R2-1(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-I sign 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-I sign shall be erected I25' in advance of the job limit. Additional W20-I(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.
- 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 shallbe delineated by affixing conspicuity materialin 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 shallbe delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

speed to be

Channelizing devices



TRAFFIC CONTROL DEVICES

LOCATIONS

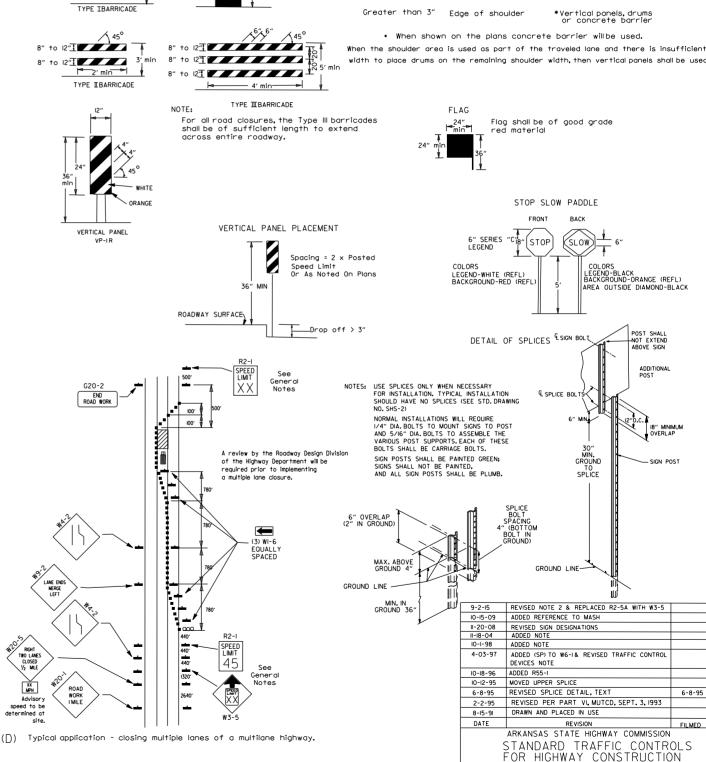
FOR VERTICAL PAVEMENT DIFFERENTIALS

I" to 3"	Centerline, lane lines	W8-II
I" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-land vertical panels, drums or concrete barrier
		drums or concrete barrier
C+ +b 7//		

TRAFFIC CONTROL

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

STANDARD DRAWING TC-3



VERTICAL DIFFERENTIAL