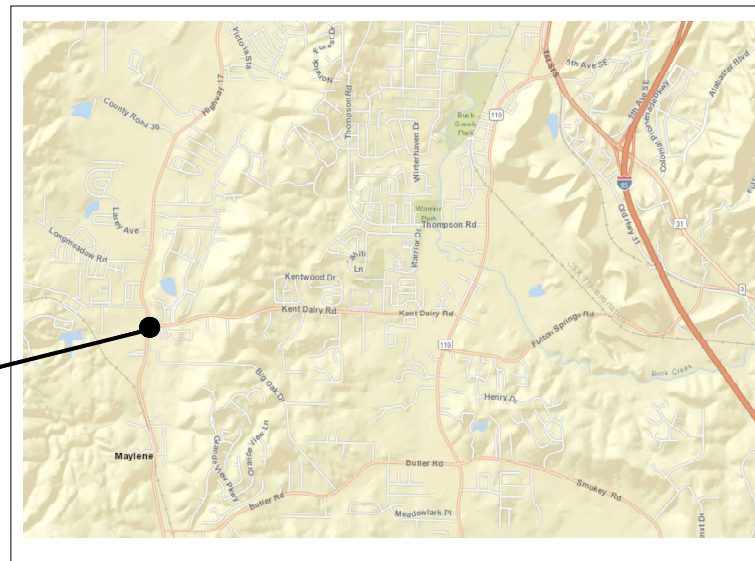


SHELBY COUNTY HIGHWAY DEPARTMENT

PLANS OF PROPOSED
PROJECT NO. SCP 59-912-20
TRAFFIC SIGNAL CONSTRUCTION
AT HIGHWAY 26 AND HIGHWAY 17
SHELBY COUNTY

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.	LAST SHEET NO.
SCP-59-912-20	2021	1	6

PROJECT LOCATION



VICINITY MAP



PLANS PREPARED BY:

SKIPPER
CONSULTING INC

3644 VANN ROAD SUITE 100
BIRMINGHAM, ALABAMA 35235
TELEPHONE: (205)655-8855

INDEX TO SHEETS

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
SCP-59-912-20	2021	1B

<u>SHEET NO.</u>	<u>TITLE</u>	<u>DESCRIPTION</u>
1	TITLE SHEET	
1B	INDEX TO SHEETS	
1C	TRAFFIC SIGNAL LEGEND	
2	TRAFFIC SIGNAL NOTES	
3	TRAFFIC SIGNAL QUANTITIES	
4	TRAFFIC SIGNAL PLAN	TRAFFIC SIGNAL CONSTRUCTION PLAN — CR-17 AT CR-26
5	TRAFFIC SIGNAL DETAILS	
6	TRAFFIC CONTROL PLAN	

2021 ALDOT STANDARD AND SPECIAL DRAWING REFERENCES

<u>INDEX</u>	<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
74007	TCD-100	DETAILS OF TRAFFIC CHANNELIZING DEVICES
73001	T.S.D.-730-1	POWER SOURCE DETAIL FOR TRAFFIC SIGNALS AND TRAFFIC SIGNAL POLES WITH LIGHTING
73027	T.S.D.-730-10	BASE AND POLE MOUNTED CONTROLLER CABINET INSTALLATIONS
73033	T.S.D.-730-12	VIDEO DETECTION SYSTEM INSTALLATION
73051	T.S.D.-730-18	FLASHING YELLOW ARROW SIGN
73084	TSOP NO.30	TRAFFIC SIGNAL OPERATING PLAN



		DESIGNER: Richard L. Coudle, P.E.	PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT		SHEET TITLE	ROUTE
		DATE: May 21, 2021	FINAL			INDEX TO SHEETS	CR-26

TRAFFIC SIGNAL AND ITS LEGEND

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
SCP-99-912-20	2021	1C

ELECTRICAL BOXES			MISCELLANEOUS EQUIPMENT			ABBREVIATIONS	
	EXISTING	REQUIRED		EXISTING	REQUIRED		
METALLIC PULL BOX			TRAFFIC SIGNAL HEAD				
FIBER OPTIC COMMBOX TYPE F1			TRAFFIC SIGNAL HEAD WITH BACKPLATE				
FIBER OPTIC COMMBOX TYPE F2			PEDESTRIAN SIGNAL HEAD				
TRAFFIC SIGNAL JUNCTION BOX			8 FOOT PEDESTAL POLE AND PEDESTRIAN SIGNAL HEAD				
CABLE IN CONDUIT			PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN				
	EXISTING	REQUIRED	PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN				
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)	— FO —	— FO —	PUSH BUTTON ASSEMBLY				
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)	— FOWC —	— FOWC —	SPAN/MASTARM MOUNTED SIGN				
FIBER OPTIC CABLE IN CONDUIT (BRIDGE ATTACHED)	— FO —	— FO —	OMNI DIRECTIONAL ANTENNA				
FIBER OPTIC CABLE (AERIAL INSTALLATION)	— OFO —	— OFO —	DIRECTIONAL ANTENNA				
INTERCONNECT CABLE IN CONDUIT (UNDERGROUND)	— UI —	— UI —	EMERGENCY VEHICLE PREEMPTION SENSOR				
INTERCONNECT CABLE (AERIAL INSTALLATION)	— OI —	— OI —	BLANKOUT MESSAGE SIGN				
CONDUIT	— C —	— C —	TRAFFIC CONTROL CENTER				
ENCASEMENT			HIGHWAY ADVISORY RADIO				
OVERHEAD ELECTRIC	— OE —	— OE —	HUB BUILDING				
BURIED ELECTRIC	— BE —	— BE —	DYNAMIC MESSAGE SIGN (OVERHEAD)				
			DYNAMIC MESSAGE SIGN (ROADSIDE)				
			DYNAMIC MESSAGE SIGN (CANTILEVER)				
VEHICULAR DETECTORS			(NOTE: ① INDICATES SIGNAL HEAD NUMBER)				
	EXISTING	REQUIRED					
PRESENCE LOOP DETECTOR							
QUADRUPOLE LOOP DETECTOR							
6'x 6' LOOP DETECTOR							
VEHICLE DETECTION CAMERA							
VIDEO DETECTION ZONE							
RADAR DETECTION UNIT							
CAMERAS							
	EXISTING	REQUIRED					
CCTV CAMERA, FIXED							
CCTV CAMERA, PTZ							



DESIGNER: Richard L. Caudle, P.E.

PLAN SUBMITTAL



ALABAMA DEPARTMENT
OF TRANSPORTATION
TRAFFIC DESIGN SECTION

NOT TO SCALE

SHEET TITLE

TRAFFIC SIGNAL AND ITS LEGEND

ROUTE

CR-26

DATE: May 21, 2021

FINAL

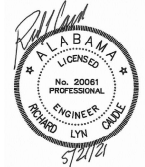
REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
SCP-59-912-20	2021	2

TRAFFIC SIGNAL PLAN NOTES

IN THE EVENT CONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES
AND THE MUTCD, THE MUTCD WILL GOVERN.

○ NOTES THAT APPLY TO THIS PROJECT.

500. WHEN THE CONTROLLER IS IN THE FLASHING MODE, THE VEHICULAR SIGNAL HEADS SHALL FLASH YELLOW ON CR-17, RED ON CR-26, AND RED ON PROTECTED LEFT TURNS AND U-TURNS.
501. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE STATE INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR PERMANENT) AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS. THE SAME SHALL BE DELIVERED TO THE ALABAMA DEPARTMENT OF TRANSPORTATION AS DIRECTED BY THE ENGINEER.
502. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF SHELBY COUNTY INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR PERMANENT) AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS. THE SAME SHALL BE DELIVERED TO THE ALABAMA DEPARTMENT OF TRANSPORTATION AS DIRECTED BY THE ENGINEER.
503. THE LOCATION OF THE POWER SOURCE AS SHOWN IN THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE POWER SOURCE AND THE SHORTEST ROUTE TO SERVE THE TRAFFIC SIGNAL CONTROLLER CABINET AND LUMINAIRES.
504. FROM THE DATE TIME CHARGE BEGINS THE CONTRACTOR SHALL ASSUME TOTAL RESPONSIBILITY FOR ALL EXISTING, TEMPORARY, AND NEW TRAFFIC CONTROL UNIT(S) ON THE PROJECT. THE CONTRACTOR SHALL CONTINUE THE OPERATION AND MAINTENANCE OF THE EXISTING TRAFFIC CONTROL UNIT(S) UNTIL THE ENTIRE NEW PERMANENT TRAFFIC CONTROL UNIT(S) IS(ARE) OPERATIONAL AND ACCEPTED BY SHELBY COUNTY.
505. THE CONTRACTOR, WITHOUT EXTRA COMPENSATION, SHALL BE RESPONSIBLE TO INSURE THE CONTINUAL OPERATION AND MAINTENANCE OF THE EXISTING AND TEMPORARY TRAFFIC CONTROL UNIT(S) DURING THE PERIOD OF CONSTRUCTION. MAINTAINING CONTINUAL OPERATION SHALL INCLUDE THE RELOCATION OF VEHICULAR SIGNAL HEADS DURING CONSTRUCTION AND THE MATERIALS AND LABOR NECESSARY TO INSURE THE CONTINUAL OPERATION OF THE TRAFFIC CONTROL UNIT(S) EQUIPMENT AT ALL TIMES.
506. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO LOCATE ALL OVERHEAD AND UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY COMPANY AND THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COST TO REPAIR ANY AND ALL DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR.
507. SHELBY COUNTY RESERVES THE RIGHT TO RESPOND TO TRAFFIC CONTROL UNIT(S) MALFUNCTIONS IN AN EMERGENCY OR NATURAL DISASTER. IN DOING SO THE CONTRACTOR'S LIABILITY AND RESPONSIBILITY RELATED TO MAINTAINING THE TRAFFIC UNIT(S) OR SYSTEM REMAINS IN EFFECT.
508. THE CONTRACTOR SHALL HAVE THE APPROVAL OF THE ENGINEER PRIOR TO THE REMOVAL OF ANY EXISTING TRAFFIC CONTROL UNIT. THE CONTRACTOR SHALL NOT REMOVE AN EXISTING TRAFFIC CONTROL UNIT UNTIL THE REQUIRED TRAFFIC CONTROL UNIT IS INSTALLED AND COMPLETELY OPERATIONAL.
509. EACH REQUIRED TRAFFIC SIGNAL STRAIN POLE AND MAST ARM POLE MAY VARY IN LENGTH AND SIZE. THE CONTRACTOR SHALL ASCERTAIN THAT THE POLE HEIGHTS ARE SUFFICIENT TO PROVIDE THE REQUIRED VEHICULAR TRAFFIC SIGNAL CLEARANCE. EXTENSIONS FOR MOUNTING SIGNALS SHALL BE PROVIDED WHEN NECESSARY.
510. EACH MAST ARM MAY VARY IN LENGTH. THE CONTRACTOR SHALL ASCERTAIN THAT ALL ARM LENGTHS ARE SUFFICIENT SO THAT EACH VEHICULAR SIGNAL HEAD POSITION CONFORMS TO THE MUTCD.
511. THE TRAFFIC SIGNAL POLE LOCATION(S) AS SHOWN IN THE PLANS IS(ARE) APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE POLE LOCATION(S) WITH THE ENGINEER. THE CONTRACTOR SHALL ASCERTAIN THAT THE FINAL POLE LOCATION(S) PROVIDE FOR THE VEHICULAR TRAFFIC SIGNAL HEADS TO MEET THE DISTANCE REQUIREMENTS TO THE STOP LINE AS REQUIRED BY THE MUTCD. WHEN PEDESTRIAN SIGNAL HEADS AND/OR PEDESTRIAN CROSSWALKS ARE INVOLVED THE SAME SAID POLE LOCATION(S) SHALL ALSO CONFORM TO THE RELATIVE SECTIONS OF THE MUTCD.
512. THE CONTRACTOR SHALL LOCATE EACH REQUIRED AND RELOCATED VEHICULAR TRAFFIC SIGNAL HEAD ON THE SPAN WIRE OR MAST ARM SO THAT EACH HEAD IS LOCATED IN THE APPROACH LANE FOR WHICH IT APPLIES. LOCATION OF SIGNAL HEADS SHALL CONFORM TO THE MUTCD.
513. THE TRAFFIC SIGNAL STRAIN POLE LOCATION(S) AS SHOWN IN THE PLANS IS(ARE) APPROXIMATE. THE ENGINEER SHALL APPROVE ALL FOUNDATION LOCATIONS PRIOR TO THE CONTRACTOR EXCAVATING FOR EACH FOUNDATION.
514. BALANCE ADJUSTERS SHALL BE INSTALLED ON TRAFFIC SIGNAL HEADS FOR PROPER AIM. THE CONTRACTOR SHALL ALIGN THE SIGNAL HEADS IN ACCORDANCE WITH THE MUTCD AND TO THE SATISFACTION OF THE ENGINEER.
515. A 12 INCH DRIP COIL WITH 3 LOOPS SHALL BE PROVIDED TO THE RIGHTS OF EACH VEHICULAR TRAFFIC SIGNAL HEAD. A DRIP LOOP SHALL BE FORMED SO THAT WATER CANNOT ENTER THE ENTRANCE CLAMP. THE WIRE SHALL ENTER THE CLAMP FROM THE BOTTOM OF THE DRIP LOOP.
516. WHEN PVC CONDUIT IS USED FROM THE CONTROLLER TO THE STEEL STRAIN POLE OR MAST ARM POLE, THE CONTRACTOR SHALL BOND THE CONTROLLER TO THE POLE WITH A #6-1C BONDING CABLE.
517. MARKING TAPE SHALL BE BURIED OVER CONDUIT. THE TAPE SHALL BE 4 INCH POLYETHYLENE, RED IN COLOR WITH BLACK LETTERING.
518. WHEN EXISTING LOOP WIRE AND VEHICLE LOOP DETECTORS ARE TO BE RETAINED AND REUSED, OR RELOCATED IN A NEW CONTROLLER CABINET, THE CONTRACTOR SHALL ASCERTAIN THE MANUFACTURER AND MODEL NUMBER OF EACH EXISTING DETECTOR AMPLIFIER AND PROVIDE A NEW WIRING HARNESS COMPLETELY WIRED IN THE CONTROLLER CABINET FOR EACH EXISTING DETECTOR AMPLIFIER.
519. WHEN SYSTEM TIMINGS ARE NOT INCLUDED IN THE PLANS FOR TIME BASE OR CLOSED LOOP SYSTEMS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO CALCULATE SYSTEM TIMINGS. THE COST OF CALCULATING SYSTEM TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.
520. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO INPUT THE TIMINGS AND FINE TUNE THE TIMINGS. THE COST OF INPUTTING AND FINE TUNING TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.
521. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR INPUTTING AND FINE TUNING THE TIMINGS.
522. WHEN EXISTING SPAN WIRE THAT IS TO BE RETAINED HAS SAGGED, THE CONTRACTOR SHALL ADJUST THE SPAN WIRE SO THAT SIGNAL HEADS COMPLY WITH THE CLEARANCE SHOWN ON THE STANDARD DETAIL DRAWING.
523. OMIT.
524. THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS TO SHELBY COUNTY.
525. BACKPLATES WITH AN 1 INCH TO 3 INCH FLUORESCENT YELLOW REFLECTIVE BORDER SHALL BE INSTALLED ON ALL SIGNAL HEADS (EXISTING AND REQUIRED).
526. CONTROLLER SHALL BE A SIEMENS M60 OR ECONOLITE COBALT.
527. OMIT
528. THE INSTALLER IS REQUIRED TO CONSTRUCT AND PROVIDE A COMPLETE TRAFFIC SIGNAL THE INTERSECTION THAT FUNCTIONS PROPERLY AND MEETS SHELBY COUNTY REQUIREMENTS AND STANDARDS.
529. LUMINAIRES USED AS A PART OF THIS PROJECT SHALL BE APPROVED FOR USE BY ALDOT AND SHALL BE LED TYPE FIXTURES.
530. D3 SIGNS USED AS A PART OF THIS PROJECT SHALL BE EDGE LIT LED TYPE SIGNS.
531. OMIT
532. THE CONTRACTOR SHALL INSTALL AN UNINTERRUPTIBLE POWER SUPPLY (UPS) FOR THIS TRAFFIC SIGNAL. THE UPS SHALL COMPLY WITH THE FOLLOWING:
- * SHALL BE A STANDBY GENERATOR W/INTERNAL COMBUSTION ENGINE FUELED BY NATURAL GAS
 - * SHALL BE INSTALLED ON A CONCRETE PAD ADJACENT TO THE TRAFFIC SIGNAL CONTROLLER
 - * SHALL INCLUDE AN AUTOMATIC TRANSFER SWITCH WITH A MINIMUM OF TWO (2) CIRCUITS - 1 STREET LIGHT CIRCUIT & 1 TRAFFIC SIGNAL CIRCUIT
 - * SHALL HAVE A SELF EXERCISING FUNCTION
 - * SHALL PROVIDE A MINIMUM 3,000 WATT SINGLE PHASE POWER SUPPLY
- SHELBY COUNTY SHALL REVIEW AND APPROVE THE UPS PRIOR TO PROCUREMENT.
533. SHELBY COUNTY WILL ASSIST IN THE COORDINATION WITH THE NATURAL GAS PROVIDER AND THE SHELBY COUNTY BUILDING INSPECTIONS DEPARTMENT. SHELBY COUNTY WILL REQUIRE BUILDING INSPECTIONS FOR ALL GAS RELATED PLUMBING WORK ON THIS PROJECT.
534. IT IS THE CONTRACTOR'S RESPONSIBILITY TO:
- * FURNISH AND INSTALL THE UPS.
 - * INSTALL THE GAS SERVICE LINE FROM THE METER/TAP TO THE UPS, AND
 - * AND MAKE THE CONNECTIONS TO THE UPS PER THE UPS MANUFACTURER GUIDELINES.
- ALL COSTS ASSOCIATED ARE CONSIDERED A SUBSIDIARY REQUIREMENT OF PAY ITEM 730C-000.



DESIGNER: Richard L. Caudle, P.E.	PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT	SHEET TITLE	ROUTE
DATE: May 21, 2021	FINAL		TRAFFIC SIGNAL PLAN NOTES	CR-26

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
SCP-59-912-20	2021	3

TOTAL	ITEM NO.	UNITS	DESCRIPTION
72	703A-002	SQ.FT.	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A
1	730C-000	LUMP SUM	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT (CR17 AT CR26)
4	730G-002	EACH	CONCRETE TRAFFIC SIGNAL STRAIN POLE
100	730L-003	LINEAR FOOT	1", NON-METALLIC CONDUIT
3	730N-000	EACH	LUMINAIRE EXTENSION ASSEMBLY, 12 FOOT
7	730P-022	EACH	VEHICULAR SIGNAL HEAD, 12 INCH, 3 SECTION, TYPE LED
1	730P-023	EACH	VEHICULAR SIGNAL HEAD, 12 INCH, 4 SECTION, TYPE LED
1	730R-022	EACH	CONTROLLER ASSEMBLY, TYPE III, 8 PHASE
1	730T-000	EACH	WOOD POLE
1	730U-015	LUMP SUM	VIDEO DETECTION SYSTEM



DESIGNER: Richard L. Caudle, P.E.

PLAN SUBMITTAL

**SHELBY COUNTY
HIGHWAY DEPARTMENT**

DATE: May 21, 2021

FINAL

SHEET TITLE

SUMMARY OF QUANTITIES

ROUTE

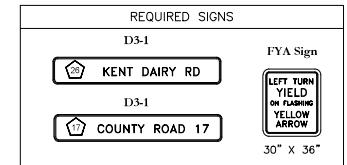
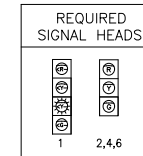
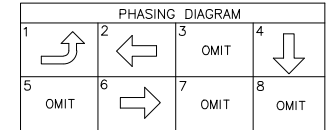
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TRAFFIC SIGNAL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP-59-912-20	2021	4

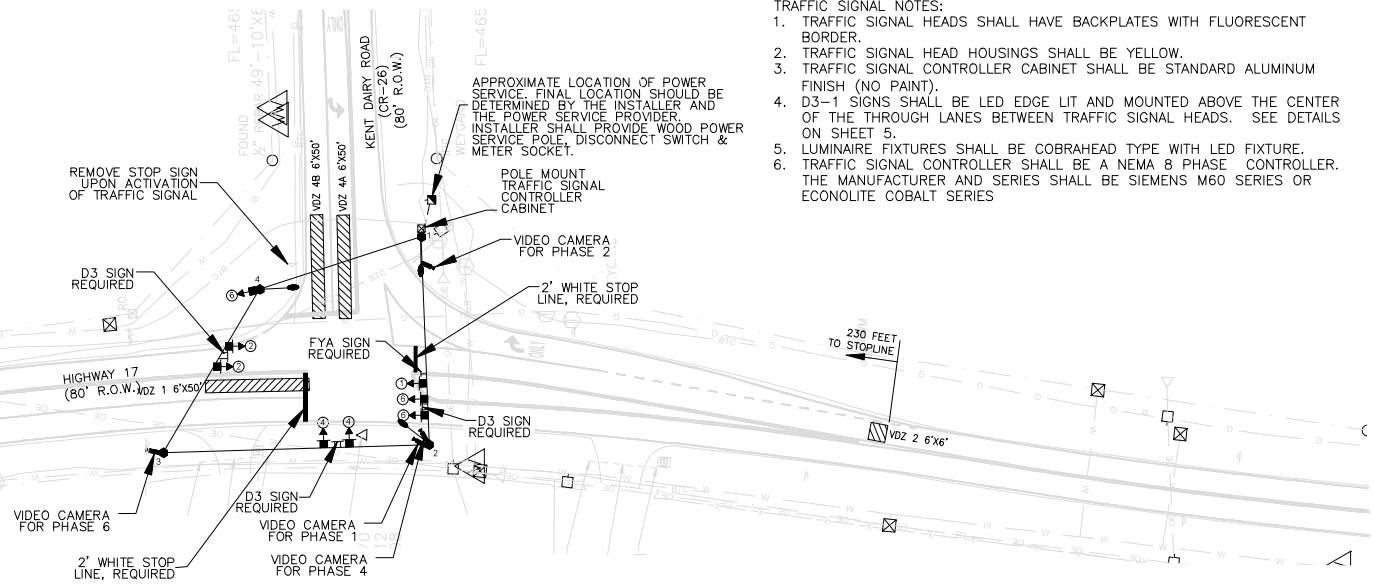
CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
2-1" PVC	3C #6 CONTROLLER POWER CABLE	DISCONNECT SWITCH	TRAFFIC SIGNAL CONTROLLER
	3C #8 LUMINAIRE POWER CABLE		
---	5C #14 SIGNAL CABLE	TRAFFIC SIGNAL CONTROLLER	SIGNAL HEAD #1
---	4C #14 SIGNAL CABLE	TRAFFIC SIGNAL CONTROLLER	SIGNAL HEADS #2
---	4C #14 SIGNAL CABLE	TRAFFIC SIGNAL CONTROLLER	SIGNAL HEADS #4
---	4C #14 SIGNAL CABLE	TRAFFIC SIGNAL CONTROLLER	SIGNAL HEADS #6
---	VIDEO DETECTION CABLE	TRAFFIC SIGNAL CONTROLLER	EACH CAMERA
---	3C #8 LUMINAIRE POWER CABLE	POLE #1	POLE #2
---	3C #8 LUMINAIRE POWER CABLE	POLE #1	POLE #4
---	3C #10 LUMINAIRE POWER CABLE	POLE BASE	LUMINAIRE FIXTURE

SUPPORTING STRUCTURES (CONCRETE)				
POLE NO.	POLE LENGTH (APPROX.)	POLE LOCATION (APPROX.)	LUMINAIRE ARM EXT. LENGTH (APPROX.)	COMMENTS
1.	45 FT	N.1169650.14 E.2163448.79	12 FT	CONCRETE POLE
2.	45 FT	N.1169645.91 E.2163349.43	12 FT	CONCRETE POLE
3.	35 FT	N.1169774.54 E.2163344.70	---	CONCRETE POLE
4.	45 FT	N.1169727.99 E.2163423.59	12 FT	CONCRETE POLE



TRAFFIC SIGNAL NOTES:

- TRAFFIC SIGNAL HEADS SHALL HAVE BACKPLATES WITH FLUORESCENT BORDER.
- TRAFFIC SIGNAL HEAD HOUSINGS SHALL BE YELLOW.
- TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE STANDARD ALUMINUM FINISH (NO PAINT).
- D3-1 SIGNS SHALL BE LED EDGE LIT AND MOUNTED ABOVE THE CENTER OF THE THROUGH LANES BETWEEN TRAFFIC SIGNAL HEADS. SEE DETAILS ON SHEET 5.
- LUMINAIRE FIXTURES SHALL BE COBRAHEAD TYPE WITH LED FIXTURE.
- TRAFFIC SIGNAL CONTROLLER SHALL BE A NEMA 8 PHASE CONTROLLER. THE MANUFACTURER AND SERIES SHALL BE SIEMENS M60 SERIES OR ECONOLITE COBALT SERIES



PAY ITEM 730C-000 ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE
MISC. HARDWARE
#14 SIGNAL CABLE, IMSA 20-1
POWER SERVICE, 240 VOLTS
TRAFFIC SIGNAL HEAD BACKPLATES WITH REFLECTIVE BORDER

VIDEO DETECTION ZONE CHART					
ZONE	CAMERA	PHASE	SIZE	TYPE	COMMENTS
1	VDC 1	1	6'X50'	PRESENCE	
2	VDC 2	2	6'X6'	PULSE	230' TO STOPLINE
4A	VDC 4	4	6'X50'	PRESENCE	
4B	VDC 4	4	6'X50'	PRESENCE	8 SEC DELAY
6	VDC 6	6	6'X6'	PULSE	230' TO STOPLINE

LOCAL CONTROLLER PROGRAMMING CHART													
PHASE	MIN INITIAL	DENSITY ACTIVE	PASSAGE	YELLOW	ALL RED	MAX 1	MAX 2	WALK	FDW	PER OMIT	MIN RECALL	PHASE OMIT	NON-LOCK
1	6.0	N	3.0	5.1	1.2	25.0	25.0			Y	N	N	Y
2	25.0	N	4.0	5.1	1.4	60.0	60.0			Y	Y	N	N
3	N									Y	N	Y	N
4	8.0	N	3.0	4.0	2.7	40.0	40.0			Y	N	N	Y
5	N									Y	N	Y	N
6	25.0	N	4.0	5.1	1.4	60.0	60.0			Y	Y	N	N
7	N									Y	N	Y	N
8	N									Y	N	Y	N



DESIGNER: Richard L. Caudle, P.E.

PLAN SUBMITTAL

DATE: May 21, 2021

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SHELBY COUNTY
HIGHWAY DEPARTMENT



SHEET TITLE

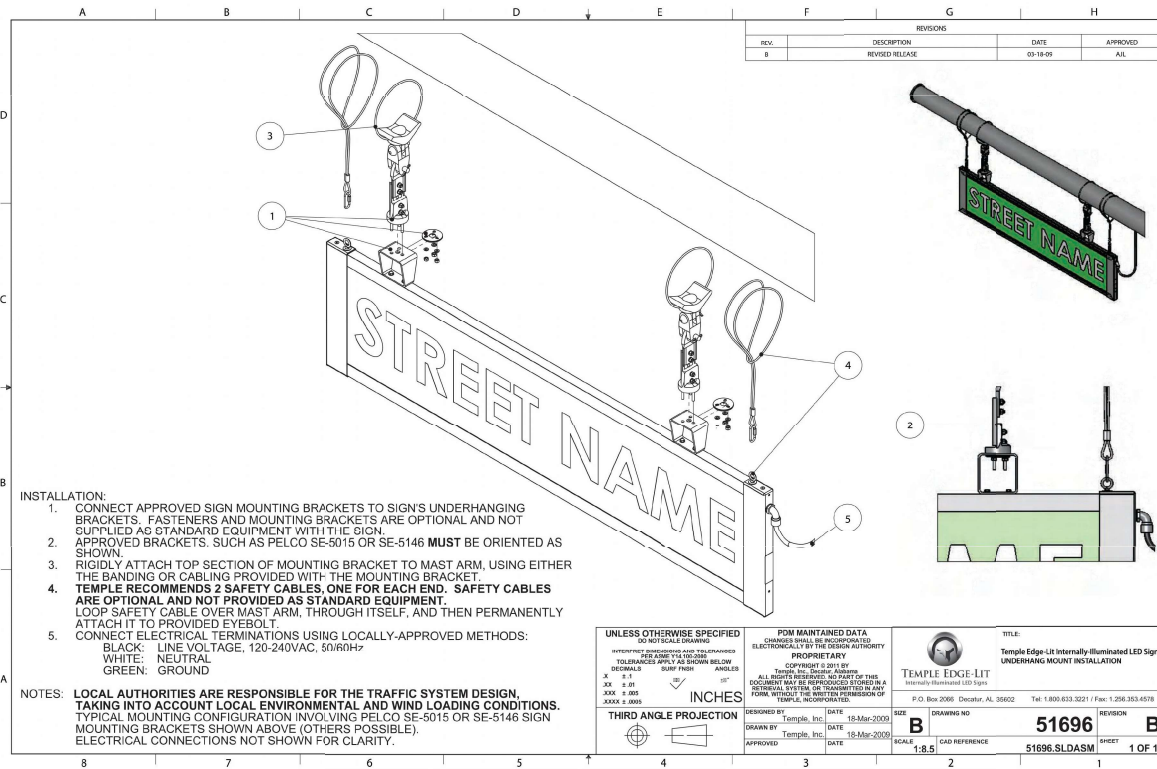
ROUTE

TRAFFIC SIGNAL PLAN SHEET

CR-26

TRAFFIC SIGNAL DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP-59-912-20	2021	5



EDGE LIT LED SIGN NOTES:

- STREET NAME SIGNS SHALL BE TEMPLE EDGE LIT LED STREET NAME SIGNS OR APPROVED ALTERNATE.
- STREET NAME SIGNS SHALL HAVE STANDARD GREEN BACKGROUNDS AND WHITE BORDER AS REQUIRED BY THE MUTCD LATEST EDITION.
- STREET NAME SIGNS SHALL HAVE THE SHELBY COUNTY ROUTE SHIELD PLACED TO THE LEFT OF THE TEXT AS SHOWN IN THE DETAILS ABOVE. THE SHIELD SHALL SHOW THE APPROPRIATE COUNTY ROADWAY NUMBER.
- STREET NAME SIGNS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE CENTER OF THE APPROACH OVER WHICH THE SIGN SHALL FACE. FINAL SIGN POSITIONING SHALL BE APPROVED BY SHELBY COUNTY.
- THE STREET NAME SIGNS SHALL BE MOUNTED ON THE SPAN WIRE USING THE UNDERHANG TYPE MOUNT UNLESS OTHERWISE APPROVED BY SHELBY COUNTY.
- THE SIGN MANUFACTURER SHALL SIZE THE STREET NAME SIGN ACCORDING TO THE REQUIRED TEXT AND SYMBOLS AND SUBMIT TO SHELBY COUNTY FOR APPROVAL PRIOR TO CONSTRUCTION.



DESIGNER: Richard L. Caudle, P.E.

PLAN SUBMITTAL

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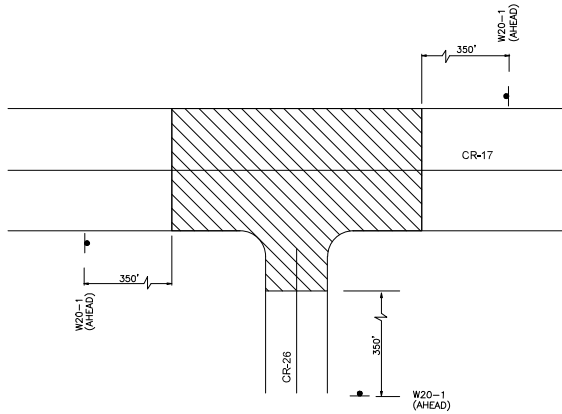
SHELBY COUNTY
HIGHWAY DEPARTMENT



SHEET TITLE ROUTE
TRAFFIC SIGNAL DETAILS CR-26

TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP-59-912-20	2021	6



NOTE:
NO LANE CLOSURES SHALL BE PERMITTED
BETWEEN THE HOURS OF 7:00AM TO 8:30AM
AND 4:00PM TO 6:00 PM

TRAFFIC CONTROL NOTES:

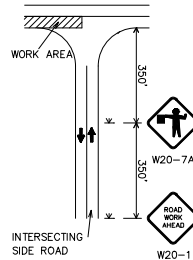
1. WORK AREAS COVERED BY TRAFFIC CONTROL SCHEME #2 ARE MORE THAN TWO FEET FROM THE TRAVEL WAY BUT LESS THAN 15 FEET. (FOUNDATIONS FOR POLES, CONTROLLER FOUNDATIONS, CABINET WIRING, ETC.)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
3. THE TRAFFIC CONTROL SCHEMES SHOWN HAVE BEEN DEVELOPED IN CONFORMANCE WITH THE MUTCD. THE DEVICES SHOWN REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT; IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL CONTROL DEVICES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL SAME AS OUTLINED IN THE MUTCD.
4. ALL TRAFFIC CONTROL DEVICES REQUIRED FOR WORK WITHIN THE ROADWAY SHALL BE IN PLACE PRIOR TO THE CONTRACTOR BEGINNING WORK.
5. ALL PORTABLE SIGNS SHALL BE REMOVED WHEN NOT IN USE OR AT THE END OF THE WORK DAY.
6. ALL TRAFFIC CONTROL DEVICES SHOWN IN SCHEME #1 SHALL REMAIN IN PLACE DURING ALL CONSTRUCTION.
7. ALL TRAFFIC CONTROL SCHEMES ARE BASED UPON A DESIGN SPEED OF 50 MILES PER HOUR.
8. PERMANENT OR TEMPORARY CONSTRUCTION SIGNS WHICH ARE NOT APPLICABLE OR INAPPROPRIATE FOR THE CURRENT CONDITIONS SHALL BE COVERED OR REMOVED.
9. HAZARDOUS CONDITIONS ON OPEN ROADWAYS SUCH AS PAVEMENT DROP OFFS; CONSTRUCTION MATERIALS, VEHICLES, OR EQUIPMENT STORED OR PLACED WITHIN THE ROADWAY RIGHT OF WAY, AND OPEN TRENCHES ACROSS OR NEAR THE ROADWAY SHALL NOT BE ALLOWED UNLESS THE INSTALLER IS ON SITE AND WORKING, AND PROPER TRAFFIC CONTROL MEASURES ARE BEING TAKEN.
10. THE INSTALLER SHALL KEEP OPEN ROADWAYS CLEAN AND FREE OF CONSTRUCTION DEBRIS, DIRT, LOOSE GRAVEL, OR OTHER MATERIAL THAT MAY CAUSE HAZARDOUS DRIVING CONDITIONS.
11. TRAFFIC CONTROL DEVICES SHALL MEET THE STANDARD MATERIAL AND INSTALLATION REQUIREMENT SPECIFIED IN THE CURRENT EDITION OF THE ALOTT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE THE WORK AREA.

LEGEND:

- POST MOUNTED SIGN
- REQUIRED SIGN (PORTABLE)
- CHANNELIZING DRUMS
- FLAGGER STATION
- WORK AREA
- DIRECTION OF TRAVEL

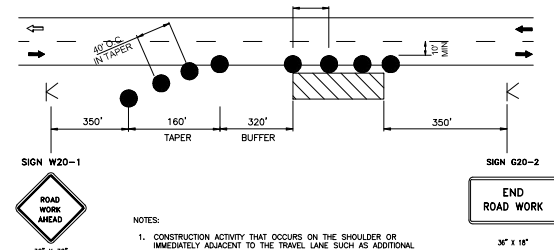


TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA



NOTE:
THE W20-1 AND W20-7A SIGNS TO BE USED ON INTERSECTING ROADS SHALL BE 48"x48" IN SIZE. THE TEMPORARY MOUNTED W20-1 ROAD WORK AHEAD SIGN SHOWN ON THE SIDE ROAD WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.

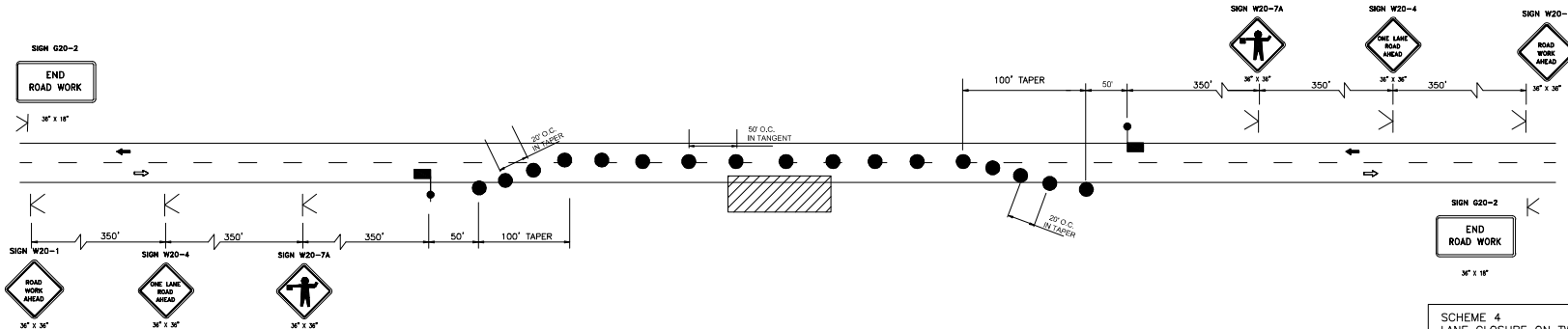
EQUAL SPACING NOT TO EXCEED 80'



NOTES:

1. CONSTRUCTION ACTIVITY THAT OCCURS ON THE SHOULDER OR IMMEDIATELY ADJACENT TO THE TRAVEL LANE SUCH AS ADDITIONAL LANE CONSTRUCTION, POLE FOUNDATIONS, BASE/PAVE ACTIVITY, ETC. AND DO NOT REQUIRE A LANE CLOSURE.
2. SIMILAR TRAFFIC CONTROL MUST BE IN PLACE IF CONSTRUCTION OCCURS ON THE OTHER SIDE OF ROAD. IF CONSTRUCTION IS ON BOTH SIDES OF ROAD, CONTROL DEVICES MUST BE IN PLACE FOR BOTH DIRECTIONS OF TRAVEL.

SCHEME 3 SHOULDER WORK WITH MINOR ENCROACHMENT (NO LANE CLOSURE)



SCHEME 4 LANE CLOSURE ON TWO LANE ROAD USING FLAGGER

DESIGNER: Richard L. Caudle, P.E.

PLAN SUBMITTAL

DATE: May 21, 2021

FINAL

SHELBY COUNTY
HIGHWAY DEPARTMENT

HORIZ 30 0 30

SCALE
(FEET)

SHEET TITLE	ROUTE
TRAFFIC CONTROL PLAN	CR-26

