

STATE OF TENNESSEE

SHELBY COUNTY

TDOT P.I.N.: 115241.03
 FEDERAL PROJECT NO.: CM-9700(40)
 STATE PROJECT NO.: 79947-1416-54
 LOCALLY MANAGED PROJECT

SCOPE OF WORK

CONSTRUCTION INCLUDES THE INSTALLATION OF VIDEO VEHICLE DETECTION AND EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THE INTERSECTIONS LISTED BELOW.

CITY OF MEMPHIS

-U.S. HWY. 64 AT BROTHER BLVD.

CITY OF BARTLETT

-ELMORE RD. AT BARTLETT BLVD.
 -U.S. HWY. 70 AT APPLING RD.
 -ST. ELMO RD. AT ALTRURIA RD.
 -ST. ELMO RD. AT KIRBY WHITTEN RD.
 -U.S. HWY. 70 AT MEMPHIS-ARLINGTON RD.

CITY OF GERMANTOWN

-WOLF RIVER BLVD. AT RIVERDALE RD.

SHELBY COUNTY

-NAVY RD. AT BETHUEL RD.
 -MACON RD. AT BERRYHILL RD.
 -FITE RD. AT U.S. HWY. 51
 -OLD BROWNSVILLE RD. AT AUSTIN PEAY HWY.
 -FITE RD. AT RALEIGH MILLINGTON RD.
 -U.S. HWY. 70 AT BRUNSWICK RD.

☉ - PROJECT LOCATIONS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	QUANTITIES
4	TABULATED QUANTITIES
5	U.S. HWY. 64 AT BROTHER BLVD. INTERSECTION LAYOUT
6	U.S. HWY. 64 AT BROTHER BLVD. DETAILS
7	ELMORE RD. AT BARTLETT BLVD. INTERSECTION LAYOUT
8	U.S. HWY. 70 AT APPLING RD. INTERSECTION LAYOUT
9	ST. ELMO RD. AT ALTRURIA RD. INTERSECTION LAYOUT
10	ST. ELMO RD. AT KIRBY WHITTEN RD. INTERSECTION LAYOUT
11	U.S. HWY. 70 AT MEMPHIS-ARLINGTON RD. INTERSECTION LAYOUT
12	WOLF RIVER BLVD. AT RIVERDALE RD. INTERSECTION LAYOUT
13	NAVY RD. AT BETHUEL RD. INTERSECTION LAYOUT
14	MACON RD. AT BERRYHILL RD. INTERSECTION LAYOUT
15	FITE RD. AT U.S. HWY. 51 INTERSECTION LAYOUT
16	OLD BROWNSVILLE RD. AT AUSTIN PEAY HWY. INTERSECTION LAYOUT
17	FITE RD. AT RALEIGH MILLINGTON RD. INTERSECTION LAYOUT
18	U.S. HWY. 70 AT BRUNSWICK RD. INTERSECTION LAYOUT
19	VIDEO DETECTION DETAILS
20	ADVANCED LOOP DETECTION DETAILS
21	DETAILS

DIVISION OF PUBLIC WORKS

PLAN FOR PROPOSED IMPROVEMENTS

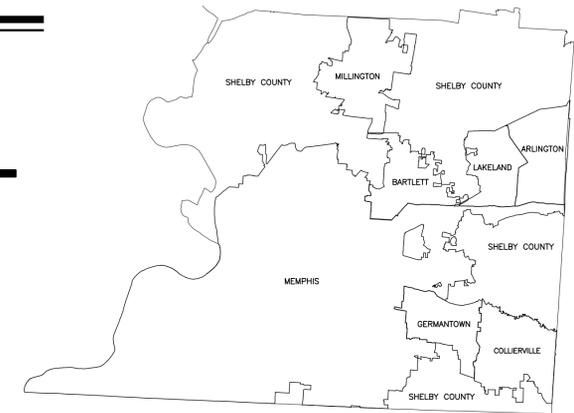
CONGESTION MANAGEMENT PROGRAM

DETECTION UPGRADE SET #2



VICINITY MAP
NOT TO SCALE

EQUATIONS: NONE
EXCEPTIONS: NONE



LOCATION MAP
NOT TO SCALE

NOTES:

PROPOSALS MAY BE REJECTED BY THE COUNTY ENGINEER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY UTILITY COMPANY WHICH MAINTAINS A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR ALL DAMAGE TO ANY UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

HON. MARK H. LUTTRELL, JR, MAYOR

APPROVED: _____ DATE: _____

MR. TOM NEEDHAM, P.E.
SHELBY COUNTY DIRECTOR OF PUBLIC WORKS
SHELBY COUNTY ENGINEER



LEGEND FOR INTERSECTION LAYOUT SHEETS

	EXISTING	PROPOSED
WOOD POLE	○	●
GUY WITH ANCHOR	—→	—→
STEEL POLE	◇	◆
CONCRETE POLE	□	■
MASTARM POLE	○—	●—
STANDARD PULL BOX	□	■
POLE-MOUNTED CONTROLLER CABINET	⊠	⊠
BASE-MOUNTED CONTROLLER CABINET	⊠	⊠
CONDUIT	---	---
JACKED OR BORED CONDUIT	—	—
SYSTEM LOOP DETECTOR	NOT SHOWN	◀—
SYSTEM LOOP LEAD-IN WIRE SAW CUT	NOT SHOWN	---
VIDEO DETECTION CAMERA	◻▶	◼▶
VIDEO DETECTION ZONE	NOT SHOWN	----
SIGNAL HEAD	◻▶	◼▶
SIGNAL HEAD WITH BACKPLATE	◻▶	◼▶
PEDESTRIAN SIGNAL HEAD	▲	▲
SINGLE CHANNEL EMERGENCY VEHICLE PREEMPTION DETECTOR	○▶	●▶
DUAL CHANNEL EMERGENCY VEHICLE PREEMPTION DETECTOR	◉▶	◐▶
EMERGENCY VEHICLE PREEMPTION CONFIRMATION LAMP	◁	◁
EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACON	⊙	⊙
POST-MOUNTED SIGN	d	•

CABLE MARKER NOTES

- THE CONTRACTOR SHALL INSTALL CABLE MARKERS TO IDENTIFY THE DETECTION AND EMERGENCY VEHICLE PREEMPTION CABLES. LEGENDS AND COLORS FOR MARKERS ARE TO APPEAR ACCORDING TO THE INFORMATION SUPPLIED BY THE CITY OF MEMPHIS SIGNAL MAINTENANCE DEPARTMENT. MARKERS ARE TO BE PERMANENT, BRIGHTLY COLORED, NON-REFLECTIVE, WITH BLACK LETTERING. MARKERS ARE TO BE MANUFACTURED OF PLASTIC, VINYL OR FIBERGLASS MATERIAL THAT IS DURABLE, UV LIGHT-RESISTANT, WEATHER-PROOF AND SCRATCH-RESISTANT.
- CURB MARKERS SHALL BE INSTALLED TO IDENTIFY CABLES THAT ARE IN OR NEAR THE STREET. CURB MARKERS ARE TO BE FOUR-INCH DIAMETER ROUND DISKS APPLIED TO CONCRETE OR METAL SURFACES WITH AN ADHESIVE ACCORDING TO THE RECOMMENDATION OF THE MANUFACTURER. CURB MARKERS ARE TO BE INSTALLED ON CABINET AND POLE FOUNDATIONS ON THE SIDE ABOVE THE CABLE. CURB MARKERS ARE ALSO TO BE PLACED ON THE CURB AT 100-FOOT SPACING ALONG ANY RUN OF CABLE THAT IS PARALLEL TO THE CURB. WHERE PAVED SHOULDER EXIST INSTEAD OF CURB, PLACE CURB MARKERS ON THE PAVEMENT SURFACE ONE FOOT FROM THE EDGE OF THE SURFACE, OR DIRECTLY OVER THE CONDUIT OR CABLE. CURB MARKERS ARE TO BE DURACAST STYLE CURB MARKERS AS MADE BY DAS MANUFACTURING, WILLIAM FRICK AND CO., OR APPROVED EQUAL. CURB MARKERS SHALL BE ABRASION AND UV-RESISTANT.

GENERAL NOTES

- INSTALL SIGNS AND MARKINGS AS SHOWN PER THE CURRENT VERSION OF THE MUTCD AND TDOT STANDARDS.
- SIGNAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CITY OF MEMPHIS TRAFFIC SIGNAL SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE SIGNAL TIMING IN THE CONTROLLER. CONTACT JAMES COLLINS, KIMLEY-HORN AND ASSOCIATES, INC., AT (901)374-9109 TO OBTAIN TIMINGS.
- ALL SALVAGABLE ITEMS TO BE DELIVERED TO THE LOCAL JURISDICTION:
CITY OF BARTLETT: 3585 ALTURIA ROAD
CITY OF GERMANTOWN: 7700 SOUTHERN AVENUE
CITY OF MILLINGTON: 4701 BILOXI
SHELBY COUNTY: 6463 HALEY ROAD
- THE CONTRACTOR SHALL PROVIDE THE NEW CONTROLLER UNITS AND THE SIGNAL TIMING SHEETS TO THE CITY OF MEMPHIS TRAFFIC SIGNAL MAINTENANCE OFFICE FOR REVIEW PRIOR TO INSTALLATION OF THE CONTROLLERS IN THE CABINET.
- THE LOCATIONS OF ALL NEW PULL BOXES ARE SCHEMATIC. THE ENGINEER SHALL APPROVE THE FINAL LOCATIONS OF ALL PULL BOXES IN THE FIELD. THE CONTRACTOR SHALL PROVIDE AS-BUILT DOCUMENTATION (RED-LINE OF PLAN SET) WHICH SHOWS EXACT, FINAL DIMENSIONS BETWEEN PULL BOXES AND OTHER POINTS OF CONDUIT TERMINATION.

UTILITY NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AVOID ALL UTILITIES AND UNDERGROUND STRUCTURES. THE CONTRACTOR SHOULD NOTE THAT EXISTING GAS LINES, WATER LINES, STORM DRAINAGE AND SANITARY SEWER STRUCTURES, AND OTHER UTILITIES MAY BE PRESENT.
- EXISTING UTILITY LOCATIONS, AS SHOWN ON THESE PLANS, WERE COMPILED BASED ON INFORMATION AVAILABLE TO THE ENGINEER. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE NOT INTENDED TO BE EXACT OR COMPLETE.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111. THE CONTRACTOR SHALL CALL THE TENNESSEE ONE CALL SYSTEM, INC. AT LEAST 72 HOURS BUT NOT MORE THAN FIVE (5) DAYS PRIOR TO ANY PLANNED DIGGING BY THE CONTRACTOR.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

- NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- CONTRACTORS SHALL BE REQUIRED TO NOTIFY SHELBY COUNTY A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN AT (901) 222-7705. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITIES BEGINS.
- ALL TRAFFIC CONTROL AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
- THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.

PHASE DIAGRAM LEGEND:

- THROUGH/RIGHT/PERMITTED LEFT TURN →
- PROTECTED LEFT TURN ↶
- DISPLAYED WALK INDICATION ◻—◻
- NOTE: CLEARANCE INTERVALS ARE NOT SHOWN

APPLICABLE CITY OF MEMPHIS DESIGN STANDARDS
T-S-1

APPLICABLE T.D.O.T. STANDARD DRAWINGS
T-SG-2, T-SG-3, T-SG-5, T-SG-9A
T-WZ-50, T-L-4

SPECIAL DETAILS WITHIN THIS PLANS SET
SHALL SUPERCEDE THOSE FOUND ON THE
LISTED STANDARD DRAWINGS.

UTILITY OWNERS

CITY OF MEMPHIS

GAS, WATER, & ELECTRIC: MEMPHIS LIGHT, GAS, & WATER
220 S. MAIN ST.
MEMPHIS, TN 38103
(901) 528-4186
KEITH LEDBURY

SEWER: CITY OF MEMPHIS
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
125 N. MAIN ST., RM. 630
MEMPHIS, TN 38103
(901) 576-6725
GARY VADEN

TRAFFIC SIGNAL & COMMUNICATIONS: CITY OF MEMPHIS
980 S. THIRD ST.
MEMPHIS TN, 38106
(901) 528-2844
JAY WALKO

CITY OF BARTLETT

WATER & SEWER: CITY OF BARTLETT
3587 ALTRURIA RD.
BARTLETT, TN 38135
(901) 385-5586

TRAFFIC SIGNAL & COMMUNICATIONS: CITY OF BARTLETT
6382 STAGE RD.
BARTLETT, TN 38134
(901) 385-6499
BECKY BAILEY

CITY OF GERMANTOWN

WATER & SEWER: CITY OF GERMANTOWN
7700 SOUTHERN AVE.
GERMANTOWN, TN 38183-0809
(901) 757-7350

TRAFFIC SIGNAL & COMMUNICATIONS: CITY OF GERMANTOWN
1930 GERMANTOWN RD. SOUTH
GERMANTOWN, TN 38138
(901) 757-7298
JONATHAN SMITH

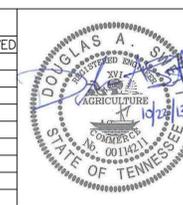
SHELBY COUNTY

TRAFFIC SIGNAL & COMMUNICATIONS: SHELBY COUNTY
6463 HALEY RD., BLDG. 10
MEMPHIS, TN 38134
(901) 379-4410
JIM CROOK

CATV: COMCAST INC.
5450 WINCHESTER RD.
MEMPHIS, TN 38115
(901) 365-1770 EXT. 4114
REX MORRIS

TELEPHONE: BELLSOUTH
3855 OUTLAND RD.
MEMPHIS, TN 38118
(901) 797-3501
ALEX LASKARIS

REVISIONS		
DATE	DESCRIPTIONS	APPROVED
10/2013	ADDED NOTES	



DIVISION OF PUBLIC WORKS
CONGESTION MANAGEMENT PROGRAM
DETECTION UPGRADE SET #2
SHELBY COUNTY, TN.

GENERAL NOTES & LEGEND

SURVEY: N/A DATE: N/A BOOK: N/A
DRAFTED: KHA DATE: 08/12 SCALE: N.T.S.
DESIGNED: KHA DATE: 08/12 CHECKED: JFC DATE: 08/12

**Kimley-Horn
and Associates, Inc.**