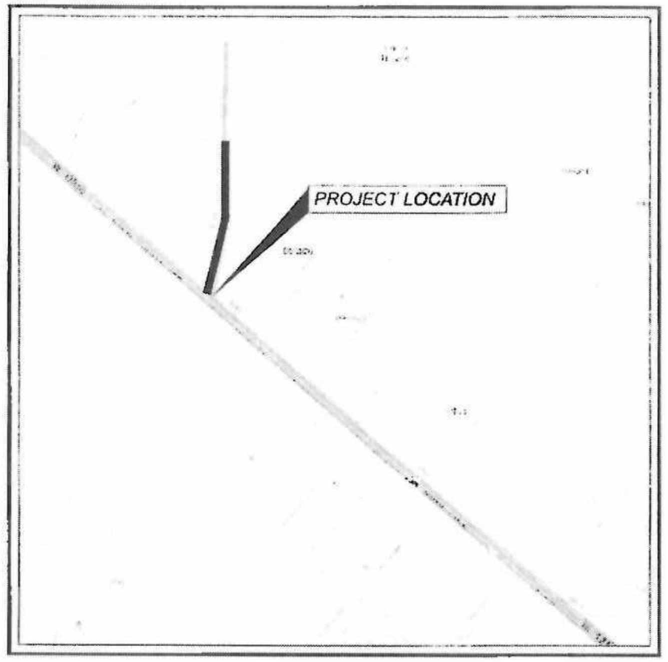
CLE - SR 125-04.11
220040 PID - 110992
Dist 8 1/27/2022



LOCATION MAP

LATITUDE: 39°2'51" LONGITUDE: -84°14'46"

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CLE-SR 125-4.11

CLERMONT COUNTY

BATAVIA AND PIERCE TOWNSHIP

FEDERAL PROJECT NUMBER

E191 (270)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCTION OF A RIGHT TURN LANE ON BACH BUXTON ROAD AT SR 125. INSTALLATION OF NEW TRAFFIC SIGNAL AT BACH BUXTON ROAD AND SR 125 INTERSECTION

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.15 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.02 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	NOI NOT REQUIRED

PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2022)	26,500
DESIGN YEAR ADT (2034)	27,000
DESIGN HOURLY VOLUME (2034)	2,700
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	7%
DESIGN SPEED	45
LEGAL SPEED	45
DESIGN FUNCTIONAL CLASSIFICATION: 04 URBAN PRINCIPAL ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS NONE

ADA WAIVER APPROVED 7/13/21

INDEX OF SHEETS:

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THESE PLANS AND ESTIMATES.

TITLE SHEET

Contract Proposal available @
www.contracts.dot.state.oh.us

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

THE OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 ENGINEERING
505 S. SR 741
LEBANON, OH 45036

ENGINEER'S SEAL:

STATE OF OHIO — LUCAS W. BRAUN — 80246 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: [signature]
DATE: 10/19/21

STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	1/17/20	MT-95.61	4/19/19	TC-83.10	1/17/20		800-2019	10/15/21	
BP-5.1	7/16/21	MT-99.20	4/19/19	TC-83.20	7/21/17		813	10/19/18	
BP-7.1	7/17/20	MT-101.90	7/17/20	TC-85.10	4/17/20		832	10/19/18	
		MT-105.10	1/17/20	TC-85.20	7/20/18		878	4/16/21	
CB-3	7/16/21	MT-110.10	7/19/13				909	1/15/21	
							913	4/16/21	
DM-1.2	7/16/21	TC-21.21	7/16/21						
DM-4.3	1/15/16	TC-41.20	10/18/13						
DM-4.4	1/15/16	TC-41.40	10/18/13						
		TC-42.20	10/18/13						
RM-1.1	1/15/21	TC-52.20	1/15/21						
		TC-65.10	1/17/14						
ITS-12.50	7/16/21	TC-65.11	7/21/17						
		TC-71.10	7/16/21						
MT-95.31	7/19/19	TC-74.10	7/16/21						
MT-95.32	4/19/19	TC-81.22	7/16/21						

APPROVED [signature: Tammy K Campbell]
DATE 10.19.2021 DISTRICT DEPUTY DIRECTOR

APPROVED [signature: Jack Marchbanks]
DATE 12-8-2021 DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN AGENCY

DESIGNER LWB

REVIEWER JDO 09/22/21

PROJECT ID 110992

SHEET P.1 TOTAL 27

CLE-125-4.11

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 10/19/2021 TIME: 12:06:57 PM USER: lbraun

ITEM 614, MAINTAINING TRAFFIC

ON BACH BUXTON ROAD, CLOSE THE NORTHBOUND LEFT TURN LANE AND SHIFT TRAFFIC TO THE EAST AS SHOWN ON SHEET 6A BY USE OF THE EXISTING PAVEMENT. ON SR 125, MAINTAIN ALL EXISTING LANES OF TRAFFIC. LANES ON BOTH ROADS MAY BE CLOSED IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE TIMES NOTE, BY USE OF THE EXISTING PAVEMENT AND COMPLETED PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT TABLE (PN 127).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

PERMITTED LANE CLOSURE TIMES

SHORT TERM LANE CLOSURES ARE THOSE WHICH ARE PERMITTED BY THE PERMITTED LANE CLOSURE NOTE. THESE TIMES SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM THE DISTRICT 8 WORK ZONE TRAFFIC CONTROL MANAGER. SHORT TERM LANE CLOSURES SHALL ONLY BE IMPLEMENTED WHEN WORK IS BEING CONTINUOUSLY PERFORMED IN THE LANE. THE CLOSURE SHALL BE REMOVED AS SOON AS POSSIBLE AFTER WORK HAS STOPPED. PERMITTED LANE CLOSURES SHALL ONLY BE ALLOWED DURING THE TIMES SPECIFIED IN THE LANE VALUE CONTRACT TABLE INCLUDED IN THESE PLANS. NO LANE OR SHOULDER CLOSURE SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED.

LANE VALUE CONTRACT TABLE

DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE $ PER TIME UNIT
SR 125 EB (OHIO PIKE): ALL LANES OPEN TO TRAFFIC	11 AM TO 8 PM	1 MINUTE PERIOD	$125
SR 125 WB (OHIO PIKE): ALL LANES OPEN TO TRAFFIC	NOT RESTRICTED	1 MINUTE PERIOD	N/A
BACH BUXTON RD ALL LANES OPEN TO TRAFFIC (SEE NOTE 1)	6 AM TO 8 AM AND 3 PM TO 6 PM	1 MINUTE PERIOD	$100
BACH BUXTON RD ALL LANES OPEN TO TRAFFIC (SEE NOTE 2)	6 AM TO 9 PM	1 MINUTE PERIOD	$100

NOTE:
1. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.
2. MAINTAIN ONE LANE OF TWO-WAY TRAFFIC USING FLAGGERS.

ACCESS TO DRIVES AND OTHER FACILITIES

THE CONTRACTOR SHALL PROVIDE AND SAFELY MAINTAIN DRIVES, STRUCTURES, AND OTHER FACILITIES FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

COMMERCIAL/BUSINESS DRIVEWAY(S):

MAINTAIN ACCESS TO ALL DRIVEWAYS. ADJUST WORK ON DRIVES BY CONSTRUCTING PART-WIDTH OR PROVIDING TEMPORARY ACCESS. FOR RESIDENCE WITH TWO (2) OR MORE DRIVES, CONSTRUCT ONE DRIVE AT A TIME, ALLOWING THE ALTERNATIVE DRIVE(S) TO BE USED FOR ACCESS. IF NOT FEASIBLE, ACCESS MAY BE DENIED FOR TWO (2) HOURS WITH 48 HOURS ADVANCE NOTICE OF CLOSURE. PROJECT ENGINEER MUST APPROVE CLOSURE PRIOR TO NOTIFICATION.

TEMPORARY TRAFFIC SIGNAL

CONTRACTOR SHALL INSTALL A TEMPORARY 32' WOOD POLE, CLASS 3 AT STA. 21+34.10, 53' LT TO MAINTAIN THE EXISTING TRAFFIC SIGNAL AT OH-125 AND BACH BUXTON ROAD DURING WIDENING WORK.

CONTRACTOR SHALL RELOCATE ALL SIGNAL HEADS, MESSENGER WIRE, WIRING, ETC. TO NEW POLE TO MAKE SIGNAL FULLY OPERATIONAL AND PROVIDE POWER IN ACCORDANCE WITH C&MS 614.10. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE IN ACCORDANCE WITH SPECIFICATIONS IN C&MS 632, 633, 732, AND 733. WOOD POLE SHALL BE REMOVED AT COMPLETION OF FINAL TRAFFIC SIGNAL.

ALL WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT.)

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER LWB

REVIEWER SK 10/12/21

PROJECT ID 110992

SHEET P.5 TOTAL 27

CLE-125-4.11

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONT.)

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE FOR POLICE SERVICES AND MAINTENANCE SERVICES BY STATE FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 11 AM TO 8 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS, EXCEPT FOR THE FOLLOWING INTERSECTIONS WHICH SHALL BE PROTECTED BY OFF-DUTY POLICE, HIRED BY THE CONTRACTOR:

1. SR 125 AND BACH BUXTON RD

2. SR 125 AND SHOPPING CENTER DRIVE EAST OF BACH BUXTON RD

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH AS LISTED IN MT-101.90 TABLE CONDITION II BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614 - WORK ZONE CENTER LINE, CLASS I, 642 PAINT.....0.07 MILES
ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT .....0.09 MILES
ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT.393 FT
ITEM 614 - WORK ZONE STOP LINE, CLASS I, 642 PAINT .....5 FT
ITEM 614 - WORK ZONE ARROW, CLASS I, 642 PAINT .....4 EACH

ITEM 621 - RPM REFLECTOR, AS PER PLAN

REFLECTORS IN THE EXISTING RPMS SHALL BE REMOVED PRIOR TO INSTALLATION OF THE WORK ZONE CENTERLINE. NEW REFLECTORS SHALL BE INSTALLED AFTER WORK ZONE CENTERLINE HAS BEEN REMOVED. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 621, RPM REFLECTOR, AS PER PLAN, 10 EACH

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER LWB

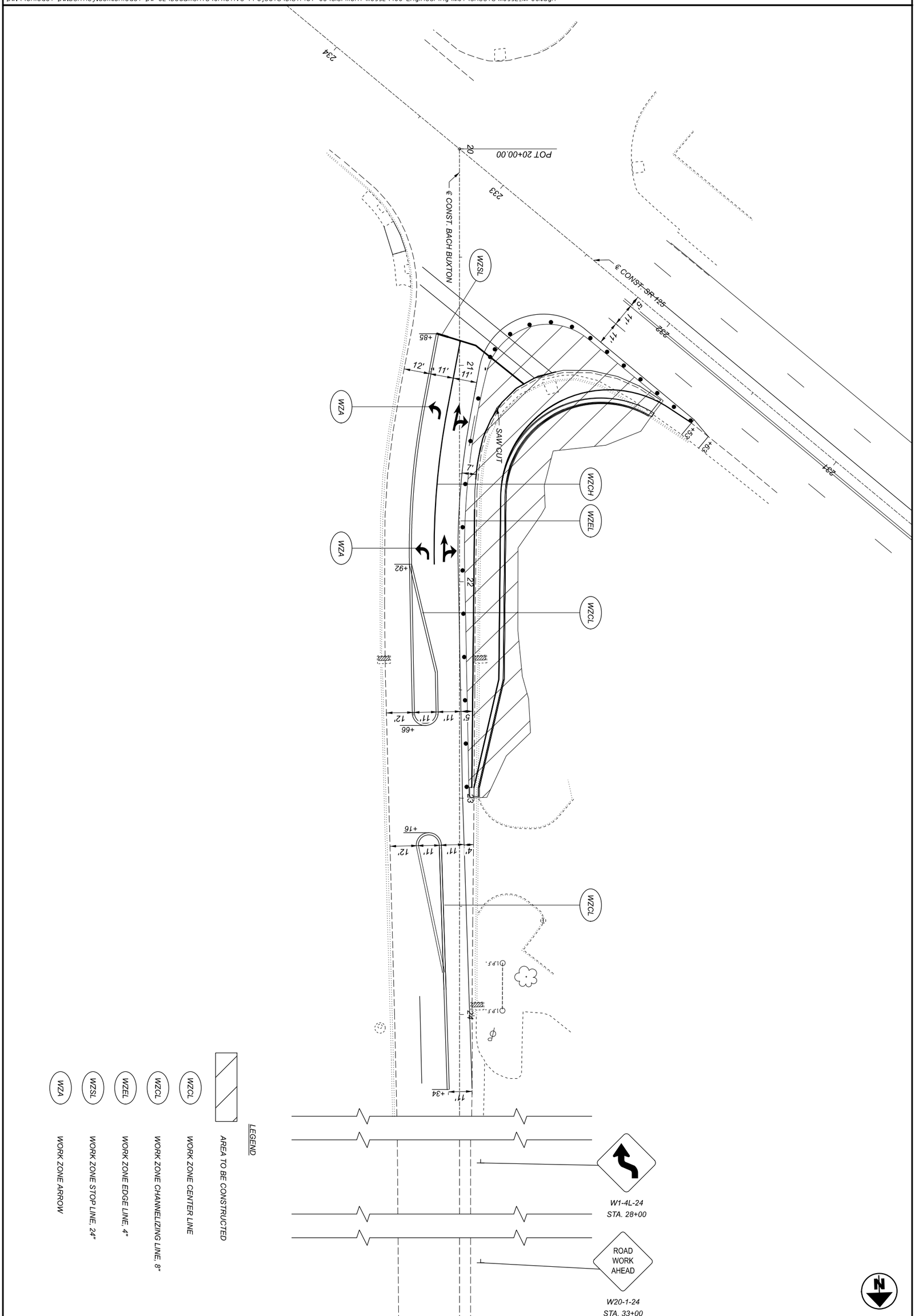
REVIEWER SK 10/12/21

PROJECT ID 110992

SHEET P.6 TOTAL 27

CLE-125-4.11

MODEL: Sheet PAPERSIZE: 17x11(In.) DATE: 1/20/2022 TIME: 1:36:08 PM USER: sotten
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Clermont\110992\400-Engineering\MOT\Sheets\110992_MP001.dgn



MAINTENANCE OF TRAFFIC PLAN
BACH BUXTON

SHEET	TOTAL
P 6A	27

PROJECT ID: 110992

REVIEWER: SK 01-19-22

DESIGNER: SRO

DESIGN AGENCY

HORIZONTAL SCALE IN FEET
0 20
10 40

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	9	10	12	13	18	19	23				01/SAF/0T						
				582									582	644	30000	582	FT	REMOVAL OF PAVEMENT MARKING	
				90									90	644	30010	90	SF	REMOVAL OF PAVEMENT MARKING	
				2									2	644	30020	2	EACH	REMOVAL OF PAVEMENT MARKING	
				0.04									0.04	644	30030	0.04	MILE	REMOVAL OF PAVEMENT MARKING	
																		TRAFFIC SIGNALS	
									1				1	625	14500	1	EACH	LIGHT POLE FOUNDATION	
									3				3	625	18200	3	EACH	BRACKET ARM, 15'	
									401				401	625	23304	401	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	
									75				75	625	23400	75	FT	NO. 10 AWG POLE AND BRACKET CABLE	
									152				152	625	25604	152	FT	CONDUIT, 4", 725.051	
									458				458	625	25908	458	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"	
									3				3	625	26252	3	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 120 VOLT, 9000 LUMEN, TYPE V, WITH PHOTOCELL	
									138				138	625	29000	138	FT	TRENCH	
									5				5	625	30706	5	EACH	PULL BOX, 725.08, 24"	
									10				10	625	32000	10	EACH	GROUND ROD	
									6				6	632	05006	6	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
									9				9	632	05086	9	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
									5				5	632	20731	5	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	21
									4				4	632	20750	4	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON	
									15				15	632	25000	15	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
									5				5	632	25010	5	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
									865				865	632	40500	865	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
									3,035				3,035	632	40700	3,035	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
									4				4	632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION	
									2				2	632	64020	2	EACH	PEDESTAL FOUNDATION	
									870				870	632	65300	870	FT	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG	
									57				57	632	68300	57	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	
									107				107	632	69800	107	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
									1				1	632	70001	1	EACH	POWER SERVICE, AS PER PLAN	21
									1				1	632	72150	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14	
									1				1	632	79130	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12	
									2				2	632	79140	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13	
									2				2	632	89900	2	EACH	PEDESTAL, 8', TRANSFORMER BASE	
									1				1	632	90010	1	EACH	PEDESTAL, MISC.:PEDESTAL, 20', TRANSFORMER BASE	21
									1				1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
									1				1	632	90104	1	EACH	REUSE OF TRAFFIC CONTROL ITEM: CCTV	
									112				112	632	90500	112	FT	SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE	19
									1				1	633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN	21
									1				1	633	67100	1	EACH	CABINET FOUNDATION	
									1				1	633	67200	1	EACH	CONTROLLER WORK PAD	
									1				1	633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN	21
									1				1	633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	19
									2				2	809	69000	2	EACH	ADVANCE RADAR DETECTION	20
									4				4	809	69100	4	EACH	STOP LINE RADAR DETECTION	20
									1				1	809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	21
																		MAINTENANCE OF TRAFFIC	
	100												100	614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		0.07											0.07	614	21100	0.07	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
		0.09											0.09	614	22100	0.09	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
		393											393	614	23200	393	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	
		5											5	614	26200	5	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
		4											4	614	30200	4	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
		10											10	621	00301	10	EACH	RPM REFLECTOR, AS PER PLAN	6
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	
													LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER SEC

REVIEWER JDO 09/22/21

PROJECT ID 110992

SHEET P.8 TOTAL 27

CLE-125-4.11

SUBSUMMARY

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
625	14500	1	EACH	LIGHT POLE FOUNDATION
625	18200	3	EACH	BRACKET ARM, 15'
625	23304	401	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE
625	23400	75	FT	NO. 10 AWG POLE AND BRACKET CABLE
625	25604	152	FT	CONDUIT, 4", 725.051
625	25908	458	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"
625	26252	3	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 120 VOLT, 9000 LUMEN, TYPE V, WITH PHOTOCELL
625	29000	138	FT	TRENCH
625	30706	5	EACH	PULL BOX, 725.08, 24"
625	32000	10	EACH	GROUND ROD
630	79100	16	EACH	SIGN HANGER ASSEMBLY, MAST ARM
630	80100	87	SF	SIGN, FLAT SHEET
632	05006	6	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE
632	05086	9	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE
632	20731	5	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN
632	20750	4	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON
632	25000	15	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	25010	5	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632	40500	865	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	40700	3035	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION
632	64020	2	EACH	PEDESTAL FOUNDATION
632	65400	870	FT	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG
632	68300	57	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	69800	107	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	72150	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14
632	79130	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12
632	79140	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13
632	89900	2	EACH	PEDESTAL, 8', TRANSFORMER BASE
632	90010	1	EACH	PEDESTAL, MISC.: PEDESTAL, 20', TRANSFORMER BASE
632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
632	90104	1	EACH	REUSE OF TRAFFIC CONTROL ITEM: CCTV
632	90500	112	FT	SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE
633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN
633	67100	1	EACH	CABINET FOUNDATION
633	67200	1	EACH	CONTROLLER WORK PAD
633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
809	69000	2	EACH	ADVANCE RADAR DETECTION
809	69100	4	EACH	STOP LINE RADAR DETECTION
809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN

RADAR DETECTION CHART

DETECTION ZONE	RADAR DETECTOR	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC)	PURPOSE	DETECTION ZONE LENGTH (FT)
DZ1	RD6	WB LT	PRESENCE	1	-	CALL/EXTEND PHASE 1	40
DZ3	RD3	NB LT	PRESENCE	3	-	CALL/EXTEND PHASE 3	40
DZ4A	RD4	SB THRU	PRESENCE	4	-	CALL/EXTEND PHASE 4	40
DZ4B	RD4	SB RT	PRESENCE	4	8	CALL/EXTEND PHASE 4	40
DZ5	RD1	EB LT	PRESENCE	5	-	CALL/EXTEND PHASE 5	40
DZ7	RD4	SB LT	PRESENCE	7	-	CALL/EXTEND PHASE 7	40
DZ8A	RD3	NB THRU	PRESENCE	8	-	CALL/EXTEND PHASE 8	40
DZ8B	RD3	NB RT	PRESENCE	8	8	CALL/EXTEND PHASE 8	40
D2	RD2	EB THRU	PRESENCE	2	-	DILEMMA ZONE	50 - 900
D6	RD5	WB THRU	PRESENCE	6	-	DILEMMA ZONE	50 - 900

SIGNAL TIMING CHART

INTERSECTION: OHIO PIKE (SR 125) AND BACH BUXTON ROAD
MAINTAINING AGENCY: ODOT

START UP
START IN: ALL RED
TIME FOR FLASH OR ALL RED: -
FIRST PHASE(S): 2 & 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: YES | PHASES: 2 & 6, 4 & 8
REST IN RED: RING 1 - | RING 2 -

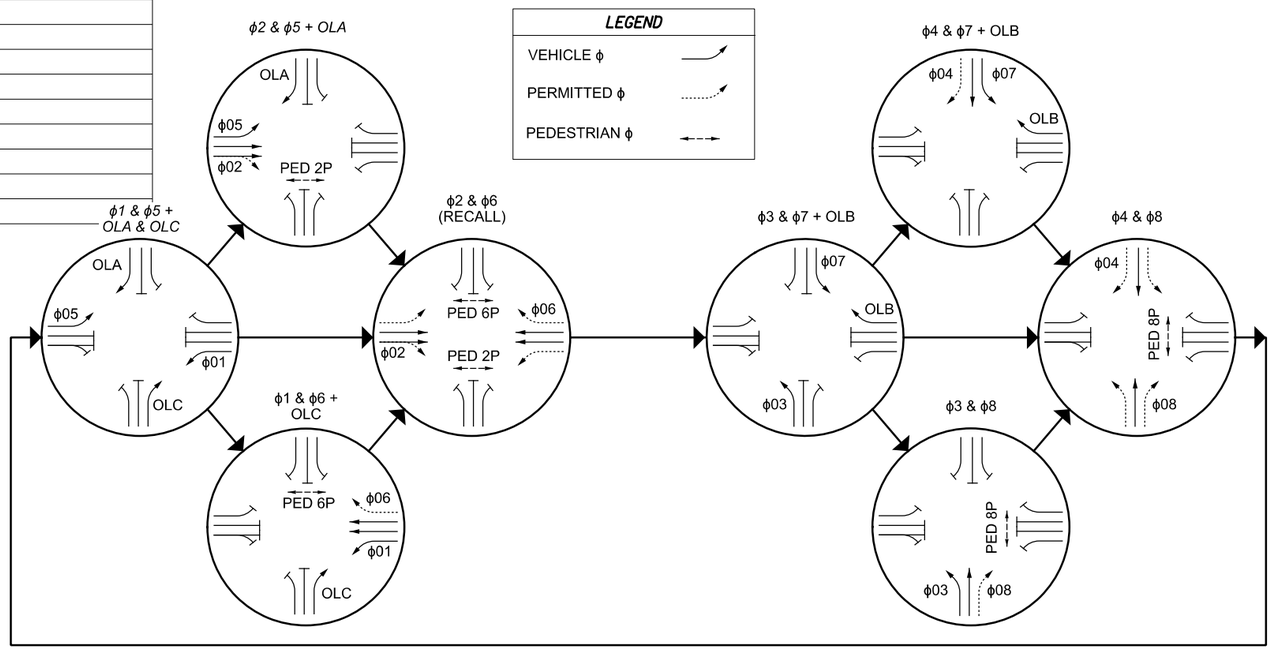
OVERLAP	A	B	C	D
PHASES	5	7	1	-

INTERVAL OR FEATURE		CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)		1	2	3	4	5	6	7	8
DIRECTION		WB LT	EB	NB LT	SB	EB LT	WB	SB LT	NB
MINIMUM GREEN (INITIAL)	(SEC.)	7	20	7	10	7	20	7	10
ADDED INITIAL	*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL	(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)	(SEC.)	4	1.5	3	3	4	1.5	3	3
TIME BEFORE REDUCTION	*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP	*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE	*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	(SEC.)	15	50	25	40	15	50	40	25
MAXIMUM GREEN II	(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE	(SEC.)	4	5	4	5	4	5	4	5
ALL RED CLEARANCE	(SEC.)	2	2	-	2	2	2	2	2
WALK	(SEC.)	-	6	-	-	-	7	-	7
PEDESTRIAN CLEARANCE	(SEC.)	-	18	-	-	-	24	-	20
RECALL — MAXIMUM	(ON/OFF)	-	-	-	-	-	-	-	-
RECALL — MINIMUM	(ON/OFF)	-	ON	-	-	-	ON	-	-
RECALL — PEDESTRIAN	(ON/OFF)	-	OFF	-	OFF	-	OFF	-	OFF
MEMORY	(ON/OFF)	-	-	-	-	-	-	-	-

*VOLUME DENSITY CONTROLS

PHASE 1 WILL INHIBIT ON PHASE 6 GREEN
PHASE 5 WILL INHIBIT ON PHASE 2 GREEN
PHASE 7 WILL INHIBIT ON PHASE 4 GREEN

PHASING DIAGRAM (TYPICAL)



TRAFFIC SIGNAL DETAILS

DESIGN AGENCY

DESIGNER LWB
REVIEWER TS 09/20/21
PROJECT ID 110992
SHEET P.23 TOTAL 27

CLE-125-4.11