

BEGIN PROJECT  
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END PROJECT  
STA 41+00.00

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION HAM-CR-457-1.52

## CITY OF HARRISON HAMILTON COUNTY

**FEDERAL PROJECT NUMBER**  
E201 (175)

**RAILROAD INVOLVEMENT**  
NONE

**PROJECT DESCRIPTION**  
THIS PROJECT INCLUDES CONCRETE MEDIAN INSTALLATION, PAVEMENT MARKING AND SIGNING UPGRADES FOR HARRISON RD. THE TRAFFIC SIGNAL IMPROVEMENTS AT STONE DR. AND HARRISON RD. INTERSECTION.

**EARTH DISTURBED AREAS**  
 PROJECT EARTH DISTURBED AREA: 0.2 Acres  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 Acres  
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOT REQUIRED)

**INDEX OF SHEETS:**

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**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 APPROVED 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 THE PLANS AND ESTIMATES.



**DESIGN DESIGNATION**

CURRENT ADT (2020)	14,106
DESIGN YEAR ADT (2040)	20,000
DESIGN HOURLY VOLUME (2040)	2000
DIRECTIONAL DISTRIBUTION	60%
TRUCKS (24 HOUR B&C)	1%
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	MINOR ARTERIAL
NHS PROJECT	NO

**DESIGN EXCEPTIONS** NONE

**ADA DESIGN WAIVERS** NONE REQUIRED

**UNDERGROUND UTILITIES**  
 Contact Two Working Days Before You Dig

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

ENGINEERS SEAL:

SIGNED: *Edward R. Williams*  
 DATE: 6/6/2022

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	TC-21.21	7/16/21	MT-95.31	7/19/19	800-2019	5/2/22
BP-5.1	1/21/22	TC-41.20	10/18/13	MT-95.32	4/19/19	805	7/16/10
BP-7.1	1/21/22	TC-41.40	10/18/13	MT-95.50	7/21/17	809	4/15/22
		TC-41.41	7/19/19	MT-95.60	4/19/19	832	10/19/18
CB-2-3, 2-4	7/16/21	TC-42.20	10/18/13	MT-97.10	4/19/19	878	1/21/22
CB-3A	7/16/21	TC-52.20	1/15/21	MT-99.20	4/19/19	909	4/15/22
		TC-71.10	7/16/21	MT-101.90	7/17/20	921	4/20/12
RM-1.1	1/15/21	TC-74.10	1/21/22	MT-105.10	1/17/20		
RM-3.1	7/20/18	TC-81.22	7/16/21				
		TC-83.10	1/17/20				
		TC-83.20	7/21/17				
		TC-85.10	4/17/20				
		TC-85.20	7/20/18				

APPROVED: *Tammy K Campbell*  
 DATE 6-27-2022 DIRECTOR, DEPARTMENT OF TRANSPORTATION

APPROVED: \_\_\_\_\_  
 DATE \_\_\_\_\_ DISTRICT DEPUTY DIRECTOR

PLAN PREPARED BY:  
 TEC Engineering, Inc.  
 7288 Central Parke Blvd.  
 Mason, OH 45040

DESIGN AGENCY  
**TEC Engineering, Inc.**  
 PLAN PREPARED BY:  
 TEC Engineering, Inc.  
 7288 Central Parke Blvd.  
 Mason, OH 45040

DESIGNER: VMG  
 REVIEWER: ERW 07/27/21  
 PROJECT ID: 113723  
 SHEET TOTAL: P.1 | 29



**ITEM 614 - MAINTAINING TRAFFIC (AT ALL TIMES)**

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES, AND SHALL BE CONTROLLED WITH FLAGGERS AND TRAFFIC CONTROL DEVICES AS REQUIRED AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

TRAFFIC IS TO BE MAINTAINED IN A UNIFORM PATTERN THROUGHOUT THE LANE TAPER. THE CONTRACTOR SHALL ARRANGE HIS OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE APPROVED BY THE CITY.

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE STRUCTURES WITHIN THE WORK AREA, AS DETERMINED BY THE CITY ENGINEER, TO PROMOTE POSITIVE FLOW THROUGHOUT THE CONSTRUCTION PROJECT.

ALL AFFECTED UTILITIES SHALL BE PROTECTED OR RELOCATED PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THIS PROJECT.

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

- CHRISTMAS
- NEW YEARS
- MEMORIAL DAY
- FOURTH OF JULY
- LABOR 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

LANE CLOSURES ARE ALLOWED AT THE INTERSECTION DURING THE FOLLOWING TIMES:  
 MONDAY THROUGH THURSDAY FROM 8:30AM-3PM AND AFTER 7PM.  
 FRIDAYS FROM 8:30AM-3PM ONLY

LANE CLOSURES ON SATURDAYS OR SUNDAYS MUST BE APPROVED BY THE CITY OF HARRISON.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

**ITEM 614 - MAINTAINING TRAFFIC (AT ALL TIMES) (CONT.)**

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE CITY OF HARRISON. 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 CITY, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL 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.

WHEN IT IS NECESSARY TO CLOSE ONE LANE OF TRAFFIC ADJACENT TO THE WORK, THE CLOSURE SHALL BE ACCOMPLISHED BY THE APPLICATION OF TRAFFIC CONTROL DEVICES AS SHOWN ON ODOT STANDARD DRAWING MT-95.31 AND MT-95.32. ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, AS DETERMINED BY THE ENGINEER. FOR WORK WHICH IS CONFINED TO THE SHOULDER, TRAFFIC CONTROL SHALL CONFORM TO FIGURE 6H-3 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**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 CITY OF HARRISON 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 CITY BEFORE WORK PROCEEDS.

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

**OVERNIGHT TRENCH CLOSING**

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 5 INCHES 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 CITY.

IF THE TRENCH IS WITHIN A TRAVELED LANE(S), IT SHALL BE FILLED FLUSH WITH THE EXISTING PAVEMENT SURFACE.

**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 SUB-BASE 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 CITY.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY OF HARRISON 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 CITY OF HARRISON 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 CITY OF HARRISON. THIS NOTIFICATION SHALL BE RECEIVED BY THE CITY 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 CITY.

**NOTIFICATION TIME TABLE**

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

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

**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) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE CITY:

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

- 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).
- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

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 CITY OF HARRISON 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. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE CITY. 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.

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 ..... 40 HOUR

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.



**GENERAL NOTE ABBREVIATIONS**

"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT YEAR.

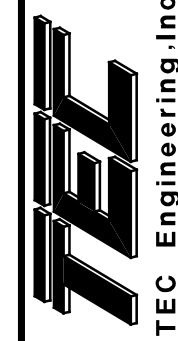
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING", ODOT, CURRENT YEAR.

"OMUTCD" REFERS TO "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", ODOT, CURRENT YEAR.

**GENERAL NOTES:**

- A. NO STOCKPILING OF MATERIALS IN LIMITED ACCESS RIGHT OF WAY.
- B. NO STEEL TRACKED EQUIPMENT SHALL BE ALLOWED ON A STATE ROUTE IN LIMITED ACCESS RIGHT OF WAY.
- C. NO CHANGES TO THE WORK SHOWN ON THE PLANS WITHIN LIMITED ACCESS RIGHT OF WAY ARE TO BE MADE WITHOUT ODOT APPROVAL.
- D. NO PROJECT IDENTIFICATION SIGNS ARE TO BE PLACED IN LIMITED ACCESS RIGHT OF WAY.
- E. ODOT SHALL BE INVITED TO THE PROJECT PRECONSTRUCTION MEETING AND BE PROVIDED WITH CONTACT INFORMATION FOR THE CONTRACTOR AND THE CITY OF HARRISON.
- F. ANY EXISTING PIPE, FIELD TILES, UNDERDRAINS, STORM DRAINS, ETC. ENCOUNTERED WITHIN LIMITED ACCESS RIGHT OF WAY SHALL BE REPLACED IN KIND PER ODOT STANDARDS UNLESS THE PIPE MATERIAL IS CLAY IN WHICH SDR-26 PVC SHALL BE USED AS A REPLACEMENT.
- G. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH PROPERTY OWNERS PERMISSION, IS PROHIBITED.
- H. ALL DRIVEWAYS SHALL REMAIN OPEN AT ALL TIMES. THE CONTRACTOR SHALL CONTACT ALL PROPERTY OWNERS PRIOR TO THE START OF WORK.
- I. ANY SIGN REMOVED/REPLACED IN LIMITED ACCESS RIGHT OF WAY SHALL BE DETERMINED BY ODOT.
- K. ALL ROADWAYS WITHIN THE WORK AREA OF THE PROJECT SHALL BE KEPT CLEAR OF MUD, DIRT AND DEBRIS AT ALL TIMES.

DESIGN AGENCY



TEC Engineering, Inc.  
PLAN PREPARED BY:  
TEC Engineering, Inc.  
7288 Central Park Blvd.  
Mason, OH 45040

DESIGNER  
VMG

REVIEWER  
ERW 07/27/21


PROJECT ID  
113723

SHEET	TOTAL
P.5A	29



REF. NO.	SHEET NO.	STATION		SIDE	202	203	203	203	203	204	301	304	407	407	441	441	608	609	609	605	611	611	611	659	659	832
		FROM	TO		PAVEMENT REMOVED SQ YD	WALK REMOVED SQ FT	CURB REMOVED FT	EXCAVATION CU YD	GRANULAR MATERIAL, TYPE C CU YD	SUBGRADE COMPACTION SQ YD	ASPHALT CONCRETE BASE, PG64-22 CU YD	AGGREGATE BASE CU YD	NON-TRACKING TACK COAT (@0.05 GAL/SY) GAL	NON-TRACKING TACK COAT (@0.075 GAL/SY) GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448) CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448) CU YD	CURB RAMP SQ FT	CURB, TYPE 6 FT	CONCRETE MEDIAN SQ YD	6" BASE PIPE UNDERDRAIN FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	12" CONDUIT, TYPE B EACH	CATCH BASIN, CB-3A EACH	TOPSOIL CU YD	SEEDING AND MULCHING SQ YD	EROSION CONTROL EACH
<b>HARRISON AVE.</b>																										
R1	10	35+50	35+80	RT	17					17																
R2	10	35+75	36+75	RT	102					102																
R3	11	36+75	38+65	LT/RT	215					215																
R4	10		34+93	LT	2		10			2	1	1			0.1											
R5	10		34+91	RT	6	50	23			6	1	1			0.15											
R6	10		35-62	RT	10	90	26			10	1	1			0.2											
C1	10	35+75	36+75	RT														98								
C2	10	35+75	36+75	RT														100								
C3	11	36+75	38+63	LT/RT														189								
C4	11	36+75	38+63	RT														190								
CR1	10		34+91	LT				4									68									
CR2	10		35+55	RT													95									
CR3	10		35+55	RT													100									
D1-D2	10	35+50	35+89	RT									0.8	0.8	0.7	0.9						47	1			8,300
	10	35+75	36+75	RT							7	18	1.5	2.5	2	3			57							
SD1	10		35+55	RT																			0.5	5		
UD1	10	35+79	36+75	RT														96	10							
UD2	11	36+75	38+60	RT														185								
	11	36+75	38+65	LT/RT							15	35	4	5	3.5	4.2			130							
	18	35+75	38+65	LT/RT					62																	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					352	140	59	4	62	352	25	56	6	8	7	8	263	577	187	281	10	47	1	0.5	5	8300

ROADWAY/PAVEMENT  
SUBSUMMARY

DESIGN AGENCY  
  
 TEC Engineering, Inc.  
 7288 Central Park Blvd.  
 Mason, OH 45040

DESIGNER  
 VMG

REVIEWER  
 ERW 01/20/22

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