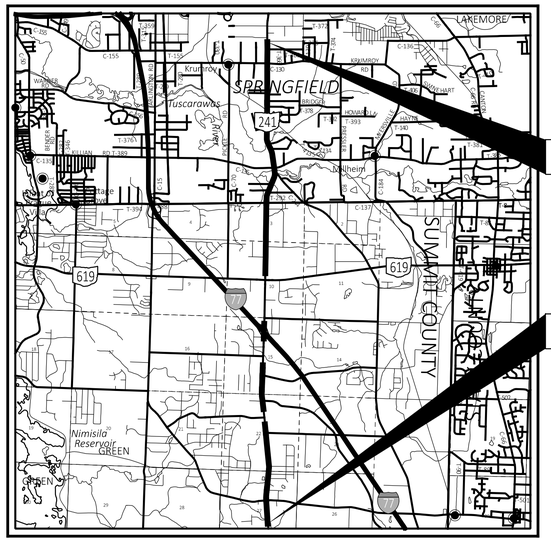
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SUM-241-1.50/VAR

CITY OF GREEN

SPRINGFIELD TOWNSHIP

SUMMIT COUNTY



LOCATION MAP

LATITUDE: 40°58'25.53" LONGITUDE: 81°27'52.22"

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

DESIGN DESIGNATION (SR-241)

CURRENT ADT (2023)	11,752
DESIGN YEAR ADT (1992)	13,810
DESIGN HOURLY VOLUME (2023)	1293
DIRECTIONAL DISTRIBUTION	56%
TRUCKS (24 HOUR B&C)	317 (3%)
DESIGN SPEED	35
LEGAL SPEED	35
DESIGN FUNCTIONAL CLASSIFICATION: URBAN, OTHER, PRINCIPAL ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

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:
ODOT DISTRICT 4, CAPITAL PROGRAMS
2088 S. ARLINGTON ROAD
AKRON, OHIO 44306

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

E200177

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RESURFACING OF SUM SR 241, INCLUDES URBAN PAVING IN THE CITY OF GREEN, AND MINOR WORK TO 1 STRUCTURE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	2.54 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)*

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON 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 THE PLANS AND ESTIMATES.

Arthur G. Noirot Jr., P.E.
District 04 Deputy Director

Pamela Boratyn
Director, Department of Transportation

Updated date

STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	1/19/24	MT-98.30	7/16/21				800-2023	1/17/25	
BP-3.2	1/18/19	MT-99.20	4/19/19				809	7/19/24	
BP-4.1	7/19/13	MT-101.90	7/17/20				~~821~~	~~4/20/12~~	
BP-5.1	7/15/22	MT-105.10	1/17/20				832	7/19/24	
BP-7.1	7/19/24	MT-110.10	7/19/13				~~909~~	~~7/19/24~~	
							921	1/19/24	
DM-4.3	1/15/16	TC-41.10	7/19/13						
DM-4.4	1/15/16	TC-41.20	10/18/13						
		TC-52.10	10/18/13						
MT-95.31	7/19/19	TC-52.20	1/15/21						
MT-95.32	4/19/19	TC-71.10	4/21/23						
MT-95.60	4/19/19	TC-74.10	7/21/23						
MT-95.61	4/19/19	TC-82.10	7/19/19						
MT-97.10	4/19/19								
MT-97.12	1/20/17								
MT-98.29	1/17/20								

ENGINEER'S SEAL	ENGINEER'S SEAL
P.1-P.19, P.24	P.20-P.23
STATE OF OHIO · MARK J. ANDRASIK E-80194 · REGISTERED · PROFESSIONAL ENGINEER	STATE OF OHIO · ROGER E. GRIMM, JR. E-69187 · REGISTERED · PROFESSIONAL ENGINEER

TITLE SHEET

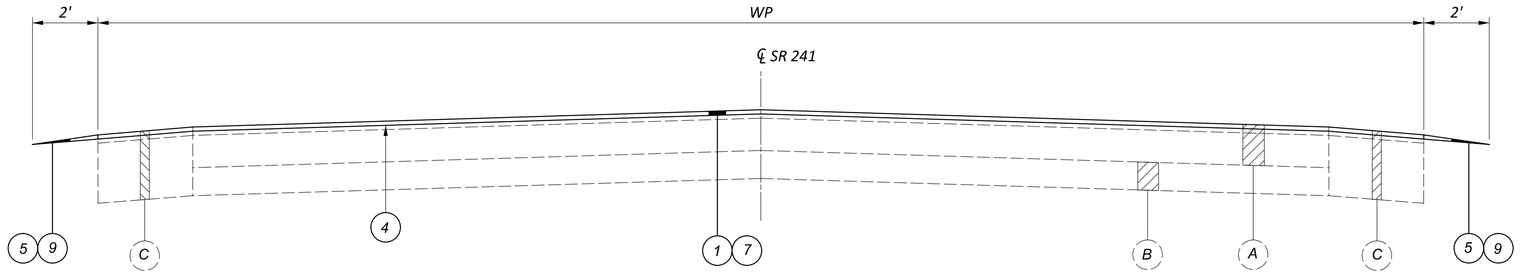
DESIGN AGENCY

DESIGNER CLG
REVIEWER MJA 10-30-24
PROJECT ID 105241
SHEET P.1 TOTAL 24

SUM-241-1.50/VAR
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:13 PM USER: sdudek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_GT001.dgn

TYPICAL SECTION #1 (NO CURB, IN CITY OF GREEN)				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
241	1.50	1.54	0.04	30
241	1.79	2.55	0.76	31
241	4.74	5.63	0.89	31
TOTAL = 1.69 MILES				

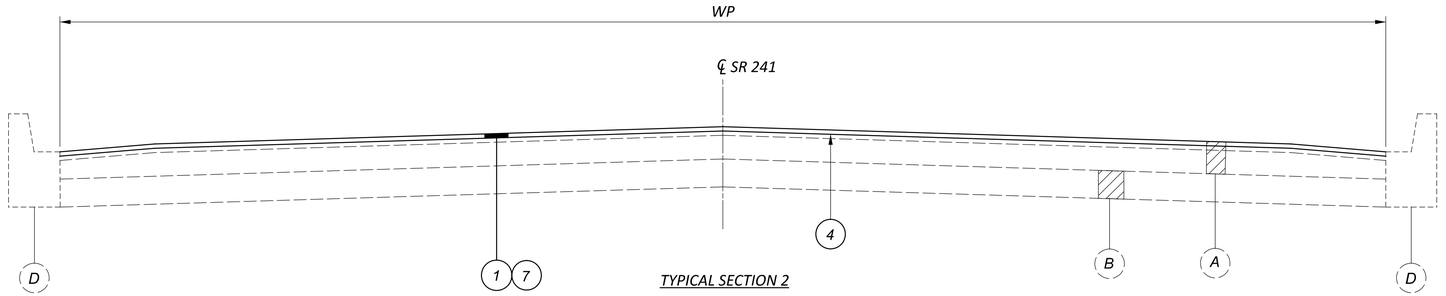
Revised



TYPICAL SECTION 1

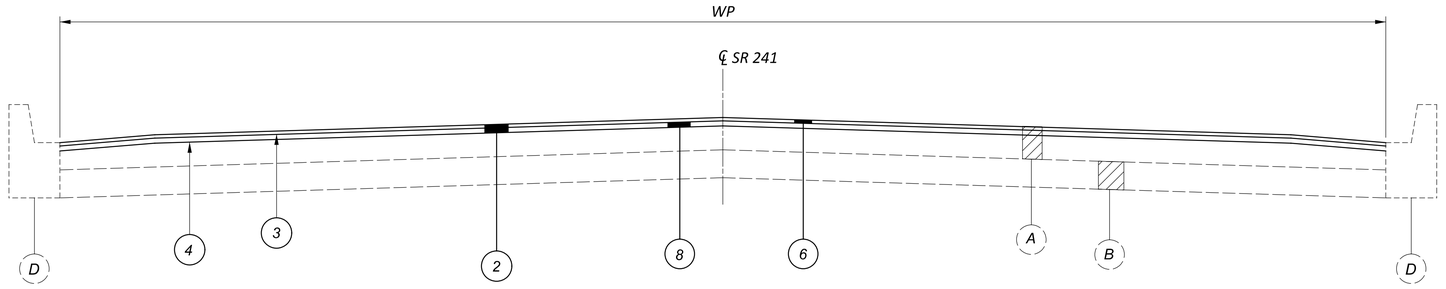
TYPICAL SECTION #2 (CURBED, IN CITY OF GREEN)				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
241	1.55	1.58	0.03	28
241	1.58	1.61	0.03	32
241	1.61	1.64	0.03	35
241	1.64	1.68	0.04	38
241	1.68	1.72	0.04	39
241	1.72	1.74	0.02	35
241	1.74	1.76	0.02	32
241	1.76	1.79	0.03	28
241	2.55	2.69	0.14	37
241	2.69	2.70	0.01	43
241	2.70	2.75	0.05	47
241	2.81	3.33	0.52	60
241	3.33	3.35	0.02	65
241	3.35	3.41	0.06	70
241	3.41	3.42	0.01	65
241	3.42	3.50	0.08	60
TOTAL = 1.13 MILES				

Revised



TYPICAL SECTION 2

TYPICAL SECTION #3 (CURBED, IN CITY OF GREEN)				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
241	3.82	3.84	0.02	106
241	3.84	4.00	0.16	85
TOTAL = 0.18 MILES				



TYPICAL SECTION 3

LEGEND

1. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T = 1.50")
2. ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (T = 3")
3. ITEM 407 - NON-TRACKING TACK COAT @ 0.06 GAL/SY
4. ITEM 407 - NON-TRACKING TACK COAT @ 0.09 GAL/SY
5. ITEM 408 - PRIME COAT, AS PER PLAN @ 0.40 GAL/SY
6. ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG70-22M (T = 1.25")
7. ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG70-22M (T = 1.50")
8. ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG70-22M (T = 1.75")
9. ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN (T = 1" AVG.)

A. EXISTING ASPHALT PAVEMENT
B. EXISTING CONCRETE BASE
C. EXISTING SHOULDERS
D. EXISTING CURB & GUTTER

THE FOLLOWING ROUNDABOUTS WITHIN PROJECT LIMITS ARE TO BE SKIPPED:

STEESE RD.: SLM 2.75 - 2.81

TYPICAL SECTIONS

SUM-241-1.50/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:19 PM USER: sdudek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_GY001.dgn

DESIGN AGENCY

DESIGNER SBD

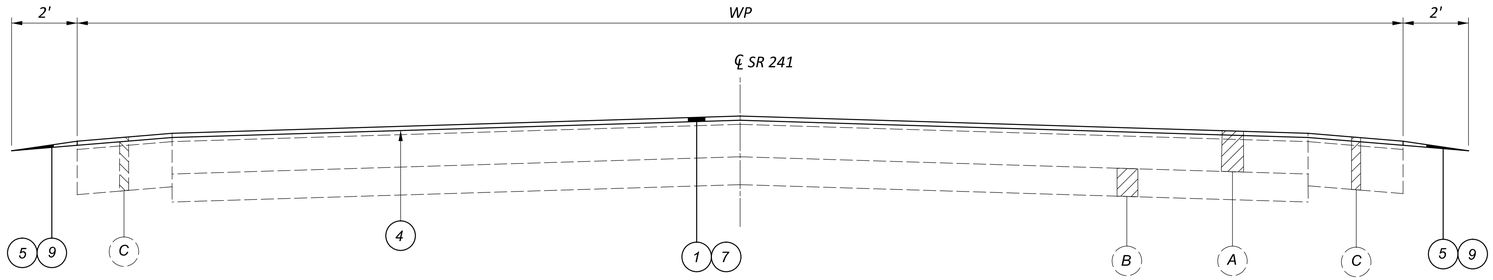
REVIEWER MJA 10-30-24

PROJECT ID 105241

SHEET P.2 TOTAL 24

TYPICAL SECTION #4 (NO CURB, SPRINGFIELD TOWNSHIP)				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
241	5.63	5.90	0.27	32
241	5.90	6.00	0.10	33
241	6.09	6.15	0.07	44
241	6.15	6.22	0.07	45
241	6.22	6.35	0.13	31
241	6.35	6.45	0.10	56
241	6.55	6.62	0.07	56
241	6.62	6.71	0.09	47
241	6.71	6.80	0.09	32
241	6.80	6.85	0.05	41
241	6.90	6.92	0.02	41
241	6.92	6.99	0.07	34
241	6.99	7.37	0.38	31
241	7.37	7.48	0.11	39
241	7.48	7.53	0.05	41
241	7.53	7.79	0.26	34
TOTAL = 1.92 MILES				

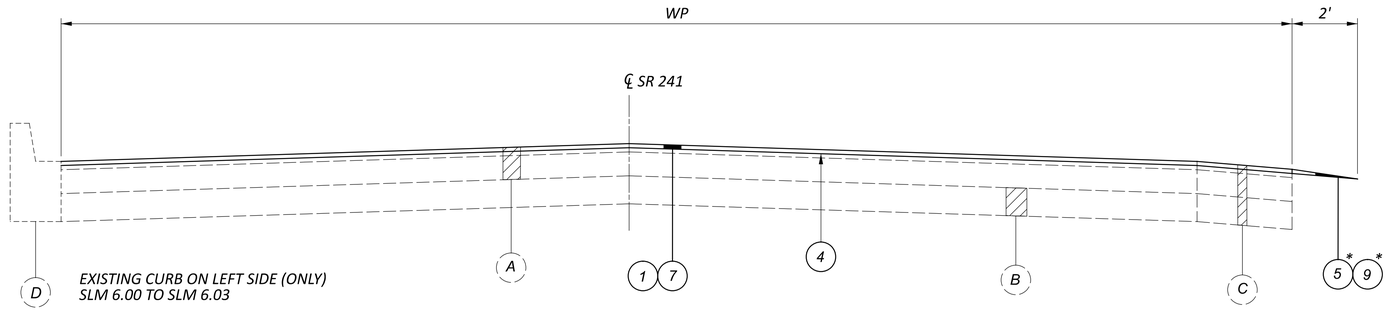
Revised



TYPICAL SECTION 4

TYPICAL SECTION #5				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
241	1.54	1.55	0.01	30
241	6.00	6.07	0.07	40
241	6.45	6.55	0.10	56
TOTAL = 0.18 MILES				

Revised



EXISTING CURB ON LEFT SIDE (ONLY)
SLM 6.00 TO SLM 6.03

EXISTING CURB ON RIGHT SIDE (ONLY)
SLM 1.54 TO SLM 1.55
SLM 6.45 TO SLM 6.55

TYPICAL SECTION 5

**ON RIGHT SIDE (ONLY)*
SLM 6.00 TO SLM 6.03

ON LEFT SIDE (ONLY)
SLM 1.54 TO SLM 1.55
SLM 6.45 TO SLM 6.55

TYPICAL SECTIONS

SUM-241-1.50/VAR

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:20 PM USER: sdudek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_GY001.dgn

DESIGN AGENCY

DESIGNER SBD

REVIEWER MJA 10-30-24

PROJECT ID 105241

SHEET P.3 TOTAL 24

ITEM 809 – STOP-LINE RADAR DETECTION, AS PER PLAN
ITEM 809 – ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING STOP-LINE RADAR DETECTION - WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT OR ADVANCE RADAR DETECTION - WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1) POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
2) ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
3) THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
4) SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
5) THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
6) A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
7) THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
8) THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING THE EXISTING LOOPS.
9) THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.
10) THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-2267) AND THE CITY OF GREEN (PAUL PICKET 330-896-5510) THREE WORKING DAYS PRIOR TO INSTALLING THE DETECTION TO REMOVE THE CABINET LOCKS. ANY LOOP DETECTORS DISTURBED BY THE PLANING SHOULD BE ABANDONED IN PLACE.
11) THE CONTRACTOR SHALL DISCONNECT AND LEAVE THE LOOP DETECTOR AMPLIFIERS IN THE CONTROLLER.

PAYMENT FOR EACH DETECTION UNIT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

INTERSECTION	809- ADVANCE RADAR DETECTION	ADVANCE RADAR APPROACH	809- STOP LINE RADAR DETECTION	STOP LINE RADAR APPROACH
SUM SR 241 & KILLIAN RD.	2	NB, SB SR 241	2	NB, SB SR 241
SUM SR 241 & KILLIAN RD.	N/A	N/A	2	EB, WB KILLIAN RD.
SUM SR 241 & KRUMROY RD.	2	NB, SB SR 241	N/A	NB, SB SR 241
SUM SR 241 & KRUMROY RD.	N/A	N/A	2	EB, WB KRUMROY RD.
SUM SR 241 & GREENSBURG RD.	N/A	NB, SB SR 241	2	NB, SB SR 241
SUM SR 241 & GREENSBURG RD.	N/A	EB, WB GREENSBURG RD.	2	EB, WB GREENSBURG RD.

ITEM 632 - DETECTOR LOOP, AS PER PLAN (ALTERNATE 1)

THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-3146) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTION OF SR 241 AND GREENSBURG RD. LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE AS SPECIFIED BELOW. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS.

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

632 DETECTOR LOOP, AS PER PLAN, 4 EACH
(4 EACH, POWERHEAD)

BARRIER REFLECTORS
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS DIRECTED BY THE ENGINEER FOR INSTALLING/REPLACING BARRIER REFLECTORS ON ALL EXISTING BARRIER RUNS WITHIN THE PROJECT LIMITS.

202, REMOVAL MISC.: BARRIER REFLECTOR, 7 EACH
(SLM 1.50 TO SLM 3.50, SLM 3.82 TO SLM 4.00, SLM 4.74 TO SLM 5.63)

202, REMOVAL MISC.: BARRIER REFLECTOR, 5 EACH
(SLM 5.63 TO SLM 7.79)

626, BARRIER REFLECTOR, TYPE 1, 2WAY, 14 EACH
(SLM 5.63 TO SLM 7.79)

626, BARRIER REFLECTOR, TYPE 2, 2WAY, 27 EACH
(SLM 1.50 TO SLM 3.50, SLM 3.82 TO SLM 4.00, SLM 4.74 TO SLM 5.63)

626, BARRIER REFLECTOR, TYPE 2, 2WAY, 16 EACH
(SLM 5.63 TO SLM 7.79)

ITEM SPECIAL - VERTICAL CLEARANCE

AFTER ALL CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR WILL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT 4 STRUCTURES AND PAVEMENT OFFICE). THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT 4 STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LECENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THIS WORK SHALL BE PERFORMED AT THE FOLLOWING STRUCTURES: SUM-77-0451L, SUM-77-0451R

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:
SPECIAL - VERTICAL CLEARANCE, 2 EACH

PAVED MAILBOX APPROACHES

ALL EXISTING MAIL BOX APPROACHES WILL BE PAVED WITH ASPHALT CONCRETE. THE BUILDUP OF THE ASPHALT PAVEMENT SHALL MATCH THE MAINLINE PAVING. THE LIMITS OF THE PAVING SHALL MATCH THE EXISTING MAILBOX APPROACH LIMITS. PAYMENT FOR THE WORK SHALL BE INCLUDED IN THE MAINLINE PAVING QUANTITIES. SEPARATE QUANTITIES FOR THE MAILBOX APPROACHES ARE NOT PROVIDED.

ITEM 608 - CURB RAMP, AS PER PLAN

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, INSTALLATION OF THE CURB RAMPS / DETECTABLE WARNINGS WILL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

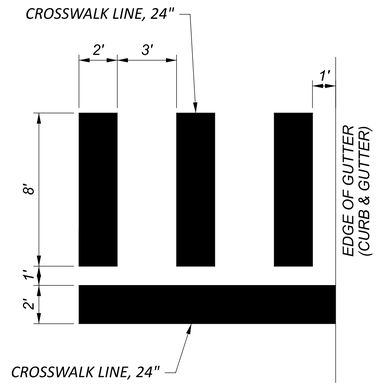
IN ADDITION TO THE CMS REQUIREMENTS OF ITEM 608 CURB RAMP, THIS ITEM SHALL INCLUDE THE RESTORATION OF THE ADJACENT AREAS DISTURBED FOR THE INSTALLATION OF CURB RAMPS AND IMMEDIATELY ADJACENT CONCRETE WALK. RESTORATION SHALL INCLUDE PLACEMENT OF ITEM 659 TOPSOIL, ITEM 659 COMMERCIAL FERTILIZER, ITEM 659 SEEDING AND MULCHING, AND ITEM 659 WATER, ALL PER CMS.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PID PRICE FOR ITEM 608 - CURB RAMP, AS PER PLAN.

ITEM 646 - CROSSWALK LINE, 24", AS PER PLAN

THE CONTRACTOR SHALL REPAINT THE CROSSWALKS AT THE LOCATIONS SPECIFIED IN THE PAVEMENT MARKINGS SUBSUMMARY TABLE AS PER THE BELOW DETAIL AFTER PAVING.

ALL CROSSWALK LINES SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. QUANTITIES FOR THIS TYPE OF CROSSWALK CAN BE FOUND IN THE PAVEMENT MARKINGS SUBSUMMARY TABLE ON SHEET P.18. THESE QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.



GENERAL NOTES

DESIGN AGENCY

DESIGNER CLG
REVIEWER MJA 10-30-24
PROJECT ID 105241
SHEET P.6 TOTAL 24

SUM-241-1.50/VAR

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:27 PM USER: sdudek
pw:\\tohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241400-Engineering\Roadway\Sheets\105241_GN001.dgn

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 24 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER
PLAN 8 SIGN MONTH ASSUMING 2 PCMS
SIGN(S) FOR 4 MONTH(S)

TIME LIMITATION, CURB RAMP

THE MAXIMUM ALLOWABLE TIME FOR THE CONTRACTOR TO HAVE AN INDIVIDUAL CURB RAMP AND ASSOCIATED SIDEWALK LEADING INTO THE CURB RAMP OUT OF SERVICE FOR THE REMOVAL AND REPLACEMENT SHALL BE 14 CONSECUTIVE CALENDAR DAYS (THE TIME PERIOD INCLUDES ALL WORK LISTED IN THE BASIS OF PAYMENT PER CMS 608.09, INCLUDING ALL REMOVAL, REPLACEMENT, AND BACKFILL ASSOCIATED WITH THE CURB RAMPS, AND CURING TIME PERIOD).

AT THE CONCLUSION OF CONSTRUCTING OF THE CURB RAMP AND PRIOR TO OPENING TO PEDESTRIAN TRAFFIC THE CONTRACTOR SHALL ENSURE THAT THE REQUIREMENTS OF STANDARD CONSTRUCTION DRAWING BP-7.1 ARE MET. THE CONTRACTOR SHALL USE ASPHALT AS A WEDGE, OR SUBMIT ANOTHER METHOD APPROVED BY THE ENGINEER, TO ENSURE THE TRANSITION FROM THE CURB RAMP TO THE ROADWAY ARE PER STANDARD CONSTRUCTION DRAWING BP-7.1. ALL COSTS TO PERFORM THIS WORK SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS FOR THE INSTALLATION OF THE CURB RAMP.

SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $1000 PER DAY PER AFFECTED RAMP THAT THE AFFECTED CURB RAMP REMAINS OUT OF SERVICE BEYOND 14 CONSECUTIVE CALENDAR DAYS.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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

NEW YEAR'S (OBSERVED)
THANKSGIVING
MEMORIAL DAY
FOURTH OF JULY (OBSERVED)
LABOR DAY
CHRISTMAS DAY (OBSERVED)

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

DAY OF HOLIDAY OR SPECIAL 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
MONDAY (TOTAL SOLAR ECLIPSE)
12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)
5:00 AM TUESDAY THROUGH 12:00 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

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

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

LANE VALUE CONTRACT

DESCRIPTION OF CRITICAL LANE/ RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE $ PER TIME PERIOD
SR-241	AS PER MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS) NOTE ABOVE AND THE MAINTENANCE OF TRAFFIC RESTRICTIONS NOTE.	PER LANE/ PER MINUTE	$135
IR-77 INTERCHANGE RAMPS	AS PER THE MAINTENANCE OF TRAFFIC RESTRICTIONS NOTE.	PER RAMP/ PER MINUTE	$200
STEESE RD.	AS PER THE MAINTENANCE OF TRAFFIC RESTRICTIONS NOTE.	PER LANE/ PER MINUTE	$50

MAINTENANCE OF TRAFFIC RESTRICTIONS

SR 241, SLM 1.495 - APPROXIMATE SLM 2.68: WORK AT THIS LOCATION SHALL BE PERFORMED WHILE MAINTAINING ONE, TEN-FOOT MINIMUM LANE OF BIDIRECTIONAL TRAFFIC DURING OFF-PEAK HOURS AS DEFINED IN THE ITEM 614, MAINTAINING TRAFFIC NOTE. WORK SHALL NOT TAKE PLACE BETWEEN 9:00PM AND 7:00AM. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

Revised note.

SR 241, APPROXIMATE SLM 2.68 - SLM 3.497: WORK AT THIS LOCATION SHALL BE LIMITED TO OVERNIGHT HOURS BETWEEN 7:00PM - 6:00AM. NORTH OF THE ROUNDABOUT, THE CONTRACTOR IS PERMITTED TO REDUCE SR 241 TO TWO, TWELVE-FOOT LANES OF TRAFFIC WHILE MAINTAINING ONE LANE IN EACH DIRECTION. IN THE VICINITY OF THE ROUNDABOUT, THE CONTRACTOR IS PERMITTED TO REDUCE SR-241 TO ONE, TEN-FOOT LANE WHILE MAINTAINING BIDIRECTIONAL TRAFFIC. STEESE ROAD TRAFFIC SHALL BE MAINTAINED BY FLAGGER CONTROL USING ONE, TEN-FOOT MINIMUM LANE OF BIDIRECTIONAL TRAFFIC. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

SR 241, SLM 3.819 - SLM 4.002: WORK AT THIS LOCATION SHALL BE LIMITED TO WEEKEND OVERNIGHT HOURS. WHEN PERFORMING THE WORK, THE CONTRACTOR IS PERMITTED TO REDUCE SR-241 TO TWO, TWELVE-FOOT LANES OF TRAFFIC WHILE MAINTAINING ONE LANE IN EACH DIRECTION. WEEKEND OVERNIGHT LANE CLOSURES SHALL BE LIMITED TO FRIDAY, SATURDAY, AND SUNDAY BETWEEN THE HOURS OF 8:00PM - 6:00AM. SHORT DURATION CLOSURES OF THE I-77 RAMPS SHALL BE PERMITTED DURING THE WEEKEND OVERNIGHT HOURS AS APPROVED BY THE ENGINEER. INTERCHANGE RAMPS SHALL NOT BE CLOSED CONCURRENTLY. ALL LANES OF TRAFFIC SHALL BE OPEN TO TRAFFIC BETWEEN THE HOURS OF 6:00AM - 8:00PM. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

SR 241, SLM 4.740 - SLM 7.792: WORK AT THIS LOCATION SHALL BE PERFORMED WHILE MAINTAINING ONE, TEN-FOOT LANE OF BIDIRECTIONAL TRAFFIC DURING OFF-PEAK HOURS AS DEFINED IN THE ITEM 614, MAINTAINING TRAFFIC NOTE. WORK SHALL NOT TAKE PLACE BETWEEN 9:00PM AND 7:00AM. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

DROPOFFS AT SIDE STREETS AND DRIVEWAYS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE MILLED SURFACES AND THE SURFACE COURSE OF SIDE STREET APPROACHES/DRIVEWAYS GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS, PER THE NOTES ON SHEET XX, SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.

MAINTENANCE OF TRAFFIC GENERAL NOTES

SUM-241-1.50/VAR

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:33 PM USER: studek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\MOT\Sheets\105241_MN001.dgn

DESIGN AGENCY

DESIGNER CLG
REVIEWER MJA 10-30-24
PROJECT ID 105241
SHEET P.8 TOTAL 24

SHEET NUM.												PART.			ALT	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	12	13	14	15	17	18	19	20	22	01/NHS/05	02/NHS/05/GREE	03/NHS/04/GREE	(X)						
																				ROADWAY	
					540							339	201			202	23500	540	SY	WEARING COURSE REMOVED	
						5,528					1,174			6,702		202	30000	6,702	SF	WALK REMOVED	
						32								32		202	32000	32	FT	CURB REMOVED	
						305					123			428		202	32500	428	FT	CURB AND GUTTER REMOVED	
		12										5	7			202	98100	12	EACH	REMOVAL MISC.: BARRIER REFLECTOR	6
24												6		18		203	10000	24	CY	EXCAVATION (FOR PAVEMENT REPAIR)	
	163											105	58			209	60200	163	STA	LINEAR GRADING	
						3,090					438			3,528		608	10000	3,528	SF	4" CONCRETE WALK	
						2,362					827			3,189		608	52001	3,189	SF	CURB RAMP, AS PER PLAN	6
											121			121		608	52001	121	SF	CURB RAMP, AS PER PLAN (T=8")	23
	14											6	8			623	39501	14	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	5
	LS											LS				SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	5
		2											2			SPECIAL	69098000	2	EACH	VERTICAL CLEARANCE	6
																				EROSION CONTROL	
												3,000				832	30000	3,000	EACH	EROSION CONTROL	
																				DRAINAGE	
	8											4	4			611	98631	8	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	5
	35											11	24			611	99655	35	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	5
1													1			611	99660	1	EACH	MANHOLE RECONSTRUCTED TO GRADE	
400	1,600											800	1,200			SPECIAL	61199820	2,000	LB	MISCELLANEOUS METAL	5
																		Quantity Revisions			
																				PAVEMENT	
2,000												420		1,580		251	01000	2,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
426												110		316		253	01000	426	SY	PAVEMENT REPAIR	
			48,858	53,628	14,745							46,367	69,540	1,324		254	01000	117,231	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	
				769	8,933							8,906	796			254	01000	9,702	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=3")	
24												6		18		304	20000	24	CY	AGGREGATE BASE (FOR PAVEMENT REPAIR)	
			4,398	6,211	755							3,444	7,798	122		407	20000	11,364	GAL	NON-TRACKING TACK COAT	
			773	2,357								1,521	1,609			408	10001	3,130	GAL	PRIME COAT, AS PER PLAN	4
			2,036	3,805	626							3,139	3,271	57		441	50100	6,467	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	
				449	449							433	465			441	50300	898	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
					15							10	5			441	70500	15	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
						305					77			382		609	12000	382	FT	COMBINATION CURB AND GUTTER, TYPE 2	
						32								32		609	26000	32	FT	CURB, TYPE 6	
			54	164	247							352	113			617	10101	465	CY	COMPACTED AGGREGATE, AS PER PLAN	4
																				WATER WORK	
											1			1		638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
	10											2	8			638	10801	10	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN	5
																				TRAFFIC CONTROL	
							324					324				621	00100	324	EACH	RPM	
							261					261				621	54000	261	EACH	~~RAISED PAVEMENT MARKER REMOVED~~	
		14										14				626	00102	14	EACH	BARRIER REFLECTOR, TYPE 1, 2WAY	
		43										16	27			626	00110	43	EACH	BARRIER REFLECTOR, TYPE 2, 2WAY	
	126	21										147				630	02100	147	FT	~~GROUND MOUNTED SUPPORT, NO. 2 POST~~	
																				Updated Description	
	36	6								1.5		42		1.5		630	80100	43.5	SF	SIGN, FLAT SHEET	
	6	1										7				630	80100	7	SF	SIGN, FLAT SHEET, 730.20	
	18	3										21				630	84900	21	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
										2				2		630	85000	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	
	12	2										14				630	86002	14	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
									6.1			4.32	1.78			646	10000	6.1	MILE	EDGE LINE, 4"	
								1.62					1.62			646	10010	1.62	MILE	EDGE LINE, 6"	
								0.93					0.93			646	10110	0.93	MILE	LANE LINE, 6"	
								1.93	2.1			2.1	1.93			646	10200	4.03	MILE	CENTER LINE	
									1,775			1,775				646	10300	1,775	FT	CHANNELIZING LINE, 8"	
								5,289					5,289			646	10310	5,289	FT	CHANNELIZING LINE, 12"	
								362	103		25	103	362	25		646	10400	490	FT	STOP LINE	
											544			544		646	10520	544	FT	CROSSWALK LINE, 24"	
								1,556					1,556			646	10521	1,556	FT	CROSSWALK LINE, 24", AS PER PLAN	6

GENERAL SUMMARY

SUM-241-1.50/VAR

DESIGN AGENCY

DESIGNER SBD

REVIEWER MJA 10-30-24

PROJECT ID 105241

SHEET P.10 TOTAL 24

SHEET NUM.												PART.			ALT	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	7	8	15	17	18	19	20	22	23	01/NHS/05	02/NHS/05/GREE	03/NHS/04/GREE	(X)					Revised Heading	
																				TRAFFIC CONTROL	
							756	530				530	756			646	10600	1,286	FT	TRANSVERSE/DIAGONAL LINE	
							207	57				57	207			646	10800	264	SF	ISLAND MARKING	
								2				2				646	20100	2	EACH	SCHOOL SYMBOL MARKING, 72"	
							76	28				28	76			646	20300	104	EACH	LANE ARROW	
							1,200	125				125	1,200			646	20504	1,325	FT	DOTTED LINE, 6"	
							90						90			646	20800	90	FT	YIELD LINE	
																				TRAFFIC SIGNALS	
									30					30		625	25400	30	FT	CONDUIT, 2", 725.04	
									57					57		625	25500	57	FT	CONDUIT, 3", 725.04	
									85					85		625	29000	85	FT	TRENCH	
									1					1		625	30700	1	EACH	PULL BOX, 725.08, 18"	
									1					1		625	31511	1	EACH	PULL BOX REMOVED, AS PER PLAN	21
					2									2		625	31600	2	EACH	PULL BOX, MISC.: ADJUSTED TO GRADE	13
									2					2		625	32000	2	EACH	GROUND ROD	
									85					85		625	36010	85	FT	UNDERGROUND WARNING/MARKING TAPE	
									2					2		632	20731	2	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	21
									671					671		632	40500	671	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
									2					2		632	64020	2	EACH	PEDESTAL FOUNDATION	
									2					2		632	89900	2	EACH	PEDESTAL, 8', TRANSFORMER BASE	
									1					1		632	90202	1	EACH	REUSE OF PEDESTRIAN SIGNAL HEAD	
									2					2		632	90211	2	EACH	REUSE OF PEDESTRIAN PUSHBUTTON, AS PER PLAN	21
									1					1		633	99000	1	EACH	CONTROLLER ITEM, MISC.: CONTROLLER MODIFICATION	21
		4										4				809	69001	4	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	8
		6										6				809	69101	6	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	8
																				TRAFFIC SIGNALS ALTERNATES	
		4											4		X	632	26500	4	EACH	DETECTOR LOOP (ALTERNATE 1)	
		4											4		X	809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN (ALTERNATE 2)	6
																				STRUCTURE REPAIRS	
																				FOR SUM-241-6.404 ESTIMATED QUANTITIES	23
																				MAINTENANCE OF TRAFFIC	
			100									100				614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			6									3	3			614	12460	6	EACH	WORK ZONE MARKING SIGN	
			10									10				614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
				8								8				614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	7
			1.27										1.27			614	20010	1.27	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
			1.27										1.27			614	20560	1.27	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
			4.18									2.1	2.08			614	21000	4.18	MILE	WORK ZONE CENTER LINE, CLASS I	
			4.18									2.1	2.08			614	21550	4.18	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
			7.72									4.32	3.4			614	22360	7.72	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
			7,037									1,748	5,289			614	23010	7,037	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"	
			7,037									1,748	5,289			614	23690	7,037	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
			557									105	452			614	26000	557	FT	WORK ZONE STOP LINE, CLASS I	
			467									105	362			614	26610	467	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
																				INCIDENTALS	
			LS									LS				614	11000	LS		MAINTAINING TRAFFIC	
												6				619	16010	6	MNTH	FIELD OFFICE, TYPE B	
												LS				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS				624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

SUM-241-1.50/VAR

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:40 PM USER: studek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_GG001.dgn

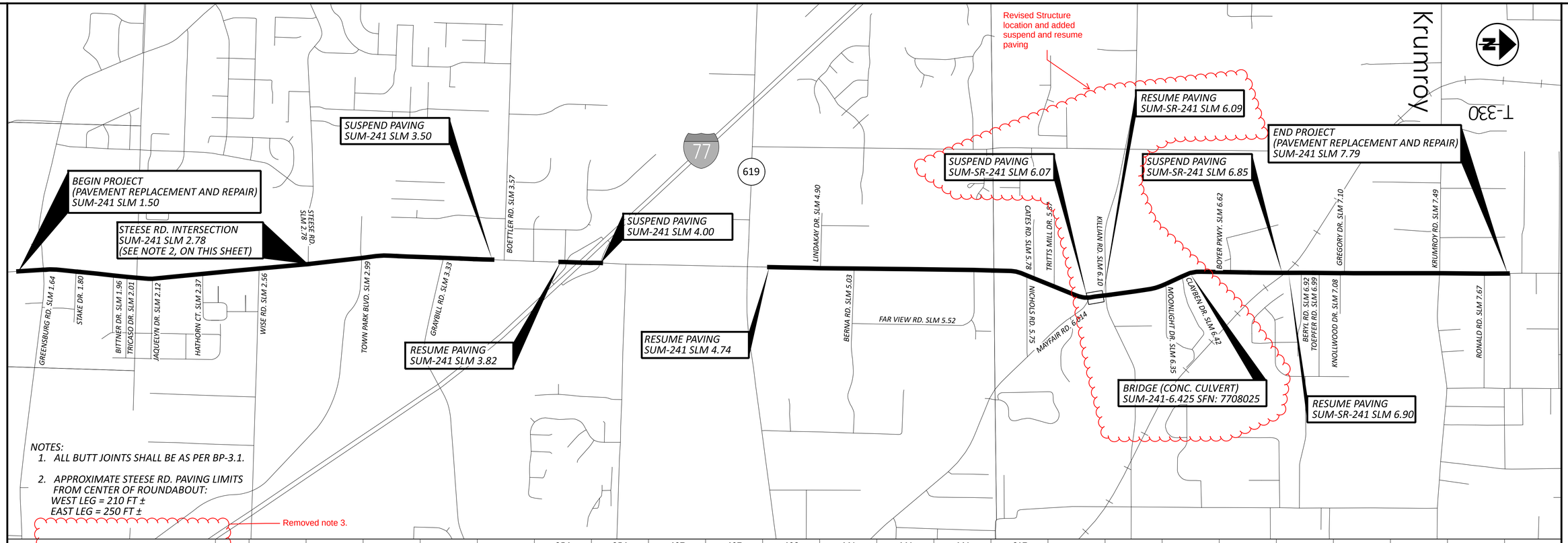
DESIGN AGENCY

DESIGNER SBD

REVIEWER MJA 10-30-24

PROJECT ID 105241

SHEET P.11 TOTAL 24



NOTES:
1. ALL BUTT JOINTS SHALL BE AS PER BP-3.1.
2. APPROXIMATE STEESE RD. PAVING LIMITS FROM CENTER OF ROUNDABOUT:
   WEST LEG = 210 FT ±
   EAST LEG = 250 FT ±

Removed note 3.

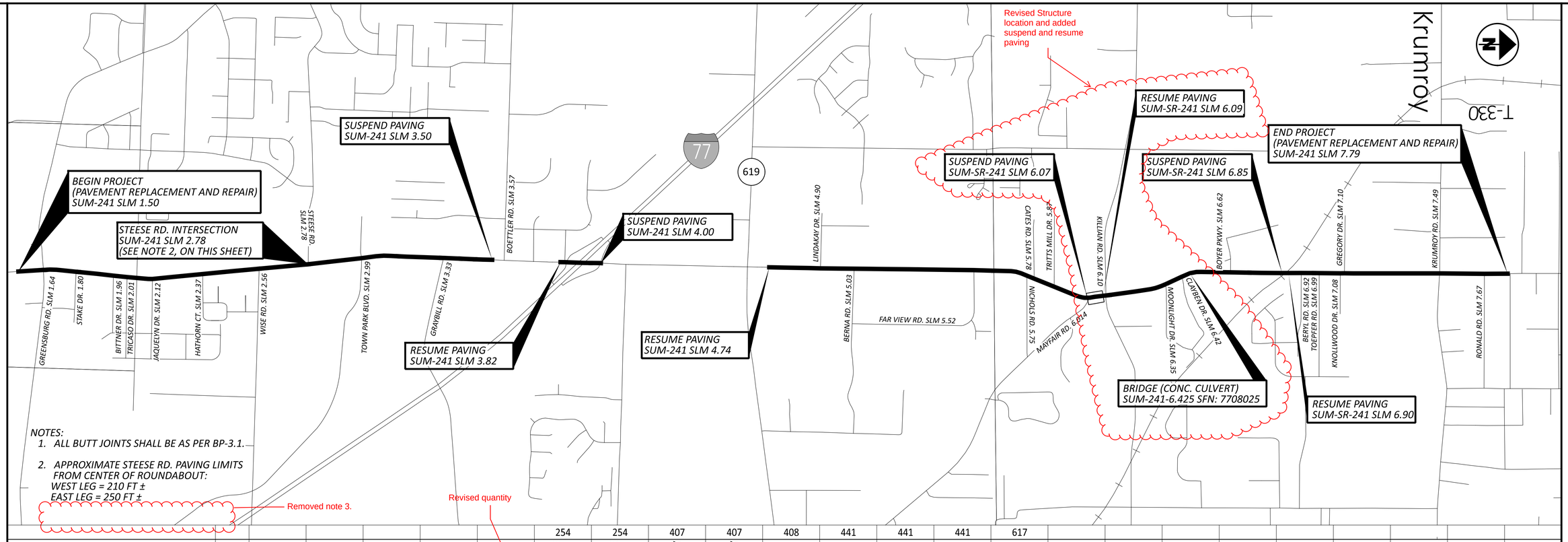
SLM RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=3")	407 NON-TRACKING TACK COAT @ 0.06 GAL.SY	407 NON-TRACKING TACK COAT @ 0.09 GAL.SY	408 PRIME COAT, AS PER PLAN	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.25")	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.5")	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (T=1.75")	617 COMPACTED AGGREGATE, AS PER PLAN (T=1" AVG.)
					FT	FT	SQ YD	SQ YD	SY	SY	GAL	GAL	GAL	CY	CY	CY	CY
SUM-SR-241																	
1.50	TO	1.54	1		211.20	30.00	704.00		704.00			63.36	37.55		29.33		2.61
1.54	TO	1.55	5		52.80	30.00	176.00		176.00			15.84	21.12		7.33		1.47
1.55	TO	1.58	2		158.40	28.00	492.80		492.80			44.35			20.53		
1.58	TO	1.61	2		158.40	32.00	563.20		563.20			50.69			23.47		
1.61	TO	1.64	2		158.40	35.00	616.00		616.00			55.44			25.67		
1.64	TO	1.68	2		211.20	38.00	891.73		891.73			80.26			37.16		
1.68	TO	1.72	2		211.20	39.00	915.20		915.20			82.37			38.13		
1.72	TO	1.74	2		105.60	35.00	410.67		410.67			36.96			17.11		
1.74	TO	1.76	2		105.60	32.00	375.47		375.47			33.79			15.64		
1.76	TO	1.79	2		158.40	28.00	492.80		492.80			44.35			20.53		
1.79	TO	2.55	1		4012.80	31.00	13821.87		13821.87			1243.97	713.39		575.91		49.54
2.55	TO	2.69	2		739.20	37.00	3038.93		3038.93			273.50			126.62		
2.69	TO	2.70	2		52.80	43.00	252.27		252.27			22.70			10.51		
2.70	TO	2.75	2		264.00	47.00	1378.67		1378.67			124.08			57.44		
2.81	TO	3.33	2		2745.60	60.00	18304.00		18304.00			1647.36			762.67		
3.33	TO	3.35	2		105.60	65.00	762.67		762.67			68.64			31.78		
3.35	TO	3.41	2		316.80	70.00	2464.00		2464.00			221.76			102.67		
3.41	TO	3.42	2		52.80	65.00	381.33		381.33			34.32			15.89		
3.42	TO	3.50	2		422.40	60.00	2816.00		2816.00			253.44			117.33		
								SUBTOTALS	48857.60			4397.18	772.05		2035.73		53.61
								TOTALS CARRIED TO GENERAL SUMMARY	48858			4398	773		2036		54

PAVEMENT CALCULATIONS

DESIGN AGENCY

DESIGNER SBD
REVIEWER MJA 10-30-24
PROJECT ID 105241
SHEET P.12 TOTAL 24

SUM-241-1.50/VAR



NOTES:
1. ALL BUTT JOINTS SHALL BE AS PER BP-3.1.
2. APPROXIMATE STEESE RD. PAVING LIMITS FROM CENTER OF ROUNDABOUT:
   WEST LEG = 210 FT ±
   EAST LEG = 250 FT ±

Removed note 3.

Revised quantity

SLM RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=3")	407 NON-TRACKING TACK COAT @ 0.06 GAL.SY	407 NON-TRACKING TACK COAT @ 0.09 GAL.SY	408 PRIME COAT, AS PER PLAN	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.25")	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.5")	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (T=1.75")	617 COMPACTED AGGREGATE, AS PER PLAN (T=1" AVG.)
					FT	FT	SQ YD	SQ YD	SY	SY	GAL	GAL	GAL	CY	CY	CY	CY
SUM-SR-241																	
3.82	TO	3.84	3		105.60	106	1243.73			1243.73	74.62	111.94		43.19		60.46	
3.84	TO	4.00	3		844.80	85	7978.67			7978.67	478.72	718.08		277.04		387.85	
4.74	TO	5.63	1		4699.20	31	16186.13		16186.13			1456.75	835.41		674.42		58.01
5.63	TO	5.90	4		1425.60	32	5068.80		5068.80			456.19	253.44		211.20		17.60
5.90	TO	6.00	4		528.00	33	1936.00		1936.00			174.24	93.87		80.67		6.52
6.00	TO	6.07	5		369.60	40	1642.67		1642.67			147.84	65.71		68.44		4.56
6.09	TO	6.15	4		316.80	44	1548.80		1548.80			139.39	56.32		64.53		3.91
6.15	TO	6.22	4		369.60	45	1848.00		1848.00			166.32	65.71		77.00		4.56
6.22	TO	6.35	4		686.40	31	2364.27		2364.27			212.78	122.03		98.51		8.47
6.35	TO	6.45	4		528.00	56	3285.33		3285.33			295.68	93.87		136.89		6.52
6.45	TO	6.55	5		528.00	56	3285.33		3285.33			295.68	46.93		136.89		3.26
6.55	TO	6.62	4		369.60	56	2299.73		2299.73			206.98	65.71		95.82		4.56
6.62	TO	6.71	4		475.20	47	2481.60		2481.60			223.34	84.48		103.40		5.87
6.71	TO	6.80	4		475.20	32	1689.60		1689.60			152.06	84.48		70.40		5.87
6.80	TO	6.85	4		264.00	41	1202.67		1202.67			108.24	46.93		200.44		3.26
6.90	TO	6.92	4		105.60	41	481.07		481.07			43.30	18.77		80.18		1.30
6.92	TO	6.99	4		369.60	34	1396.27		1396.27			125.66	65.71		232.71		4.56
6.99	TO	7.37	4		2006.40	31	6910.93		6910.93			621.98	356.69		1151.82		24.77
								SUBTOTALS	53627.20	9222.40	553.34	5656.46	2356.05	320.22	3483.33	448.31	163.61
								TOTALS CARRIED TO GENERAL SUMMARY	53628	9223	554	5657	2357	321	3484	449	164

Revised

PAVEMENT CALCULATIONS

SUM-241-1.50/VAR

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:46 PM USER: sdudek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_GC001.dgn

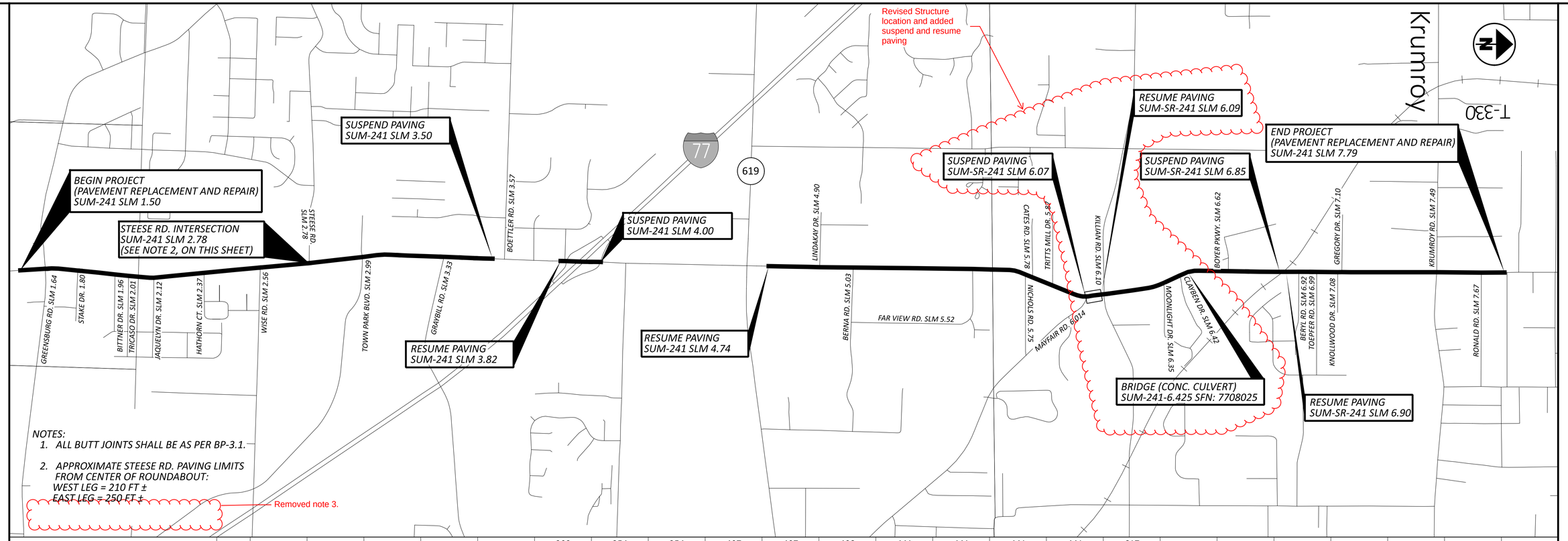
DESIGN AGENCY

DESIGNER SBD

REVIEWER MJA 10-30-24

PROJECT ID 105241

SHEET P.13 TOTAL 24



NOTES:
1. ALL BUTT JOINTS SHALL BE AS PER BP-3.1.
2. APPROXIMATE STEESE RD. PAVING LIMITS FROM CENTER OF ROUNDABOUT:
   WEST LEG = 210 FT ±
   EAST LEG = 250 FT ±

Removed note 3.

SLM RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202 WEARING COURSE REMOVED	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=3")	407 NON-TRACKING TACK COAT @ 0.06 GAL.SY	407 NON-TRACKING TACK COAT @ 0.09 GAL.SY	408 PRIME COAT, AS PER PLAN	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS) (T=1")	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.25")	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.5")	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (T=1.75")	617 COMPACTED AGGREGATE, AS PER PLAN (T=1" AVG.)
					FT	FT	SQ YD	SQ YD	SY	SY	SY	GAL	GAL	GAL	CY	CY	CY	CY	CY
SUM-SR-241																			
7.37	TO	7.48	4		580.80	39.00	2516.80			2516.80			226.51				104.87		64.53
7.48	TO	7.53	4		264.00	41.00	1202.67			1202.67			108.24				50.11		29.33
7.53	TO	7.79	4		1372.80	34.00	5186.13			5186.13			466.75				216.09		152.53
INTERSECTIONS																			
1.50	TO	3.50			10.00	VARIES		855.56		35.65			77.00				35.65		
3.82	TO	4.00			10.00	VARIES		322.22			26.85	19.33	29.00			11.19		15.66	
4.74	TO	5.63			10.00	VARIES		183.33		7.64			16.50				7.64		
5.63	TO	7.79			10.00	VARIES		483.33		20.14			43.50				20.14		
DRIVEWAYS																			
1.50	TO	3.50			2.00	VARIES		51.00	51.00				4.59		1.42				
4.74	TO	5.63			2.00	VARIES		150.00	150.00				13.50		4.17				
5.63	TO	6.71			2.00	VARIES		150.00	150.00				13.50		4.17				
6.71	TO	7.79			2.00	VARIES		189.00	189.00				17.01		5.25				
STEESE RD INTERSECTION																			
WEST LEG								565.00		565.00			50.85				23.54		
EAST LEG								758.00		758.00			68.22				31.58		
CENTER & NORTH/SOUTH LEGS								4452.00		4452.00			400.68				185.50		
									SUBTOTALS	14744.03	26.85	19.33	1535.85		15.00	11.19	675.12	15.66	246.40
									TOTALS CARRIED TO GENERAL SUMMARY	14745	27	20	1536		15	12	676	16	247

PAVEMENT CALCULATIONS

SUM-241-1.50/VAR

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:51:46 PM USER: sdudek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_GC001.dgn

DESIGN AGENCY

DESIGNER SBD
REVIEWER MJA 10-30-24
PROJECT ID 105241
SHEET P.14 TOTAL 24

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

N/A.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTION OFFICIALS, 17TH EDITION, INCLUDING THE 2012 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05, 105.02, AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.*

PROPOSED WORK

Corrected SLM

SUM-241-6.425, SFN: 7708025, BR TUSCARAWAS RIVER
- *PAVE OVER EXISTING STRUCTURE WITH MAINLINE PAVING OPERATION.*
- *CLEARING AND GRUBBING 15' AROUND STRUCTURE.*

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

Corrected SLM

CALC:	SBD	DATE:	8/9/2024
CHECKED:	MJA	DATE:	10/30/2024

ESTIMATED QUANTITIES

BRIDGE NO. / STRUCTURE FILE NO.	ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
SUM-241-6.425 7708025 01/NHS/05					
LS			LS	CLEARING AND GRUBBING, AS PER PLAN	1 / 1

STRUCTURE GENERAL NOTES AND ESTIMATED QUANTITIES SUM-241-6.404 OVER TUSCARAWAS RIVER

SFN 7708025

DESIGN AGENCY

DESIGNER	CHECKER
SBD	CLG

REVIEWER: MJA 10-30-24

PROJECT ID: 105241

SUBSET	TOTAL
1	1

SHEET	TOTAL
P.24	24

SUM-241-1.50/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 12:52:08 PM USER: sdudek
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\105241\400-Engineering\Roadway\Sheets\105241_SN001.dgn