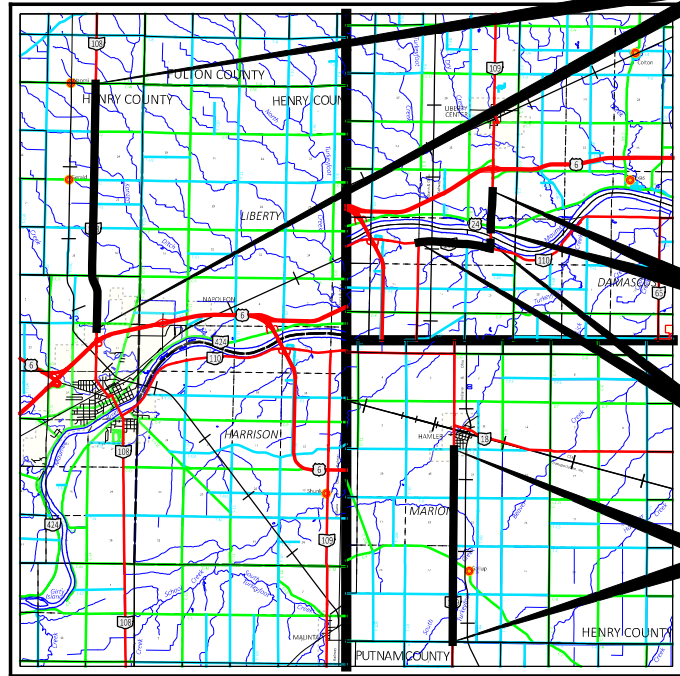


HEN-108/109-16.57/0.00

MODEL: Sheet\_SurvF1 PAPER SIZE: 17x11 (in.) DATE: 2/12/2025 TIME: 10:36:08 AM USER: nemerline pwc\hobdod-pw-bentley.com\shhdod-pw-02\Documents\01 Active Projects\Dist\ct 02\Henry\110038\400-Eng\Sheeting\Roadway\Sheets\110038\_GT001.dgn



**LOCATION MAP**

LATITUDE: 41°22'05" LONGITUDE: -84°03'35"



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

**DESIGN DESIGNATION**

	1.) 108	2.) 109	3.) 109	4.) 109
CURRENT ADT (2025)	8400	2000	2100	2800
DESIGN YEAR ADT (2037)	8800	2400	2200	3100
DESIGN HOURLY VOLUME (2037)	880	300	240	340
DIRECTIONAL DISTRIBUTION	56%	59%	55%	59%
TRUCKS (24 HOUR B&C)	11%	13%	15%	14%
DESIGN SPEED	60 MPH	60 MPH	60 MPH	60 MPH
LEGAL SPEED	55 MPH	55 MPH	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	RURAL MINOR ARTERIAL	RURAL MAJOR COLLECTOR	RURAL MAJOR COLLECTOR	RURAL MAJOR COLLECTOR
NHS PROJECT	NO	NO	NO	NO

**DESIGN EXCEPTIONS**

**ADA DESIGN WAIVERS**

NONE REQUIRED

NONE REQUIRED

**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:  
OHIO DEPT. OF TRANSPORTATION  
DISTRICT TWO  
BOWLING GREEN, OHIO

1.) HENRY COUNTY SR 108

BEGIN PROJECT STA. 931+19 SLM: 17.64	SUSPEND PROJECT STA. 1200+29 SLM: 22.73
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4.) HENRY COUNTY SR 109

RESUME PROJECT STA. 974+50 SLM: 18.46	END PROJECT STA. 1016+19 SLM: 19.25
---	---

3.) HENRY COUNTY SR 109

RESUME PROJECT STA. 875+49 SLM: 16.58	SUSPEND PROJECT STA. 959+24 SLM: 18.17
---	--

2.) HENRY COUNTY SR 109

RESUME PROJECT STA. 0+75 SLM: 0.01	SUSPEND PROJECT STA. 211+72 SLM: 4.01
--	---

**STATE OF OHIO**

**DEPARTMENT OF TRANSPORTATION**

**HEN-SR 108/109-16.57/0.00**

**PART 1**

CITY OF NAPOLEON  
VILLAGE OF HAMLER  
NAPOLEON TOWNSHIP  
FREEDOM TOWNSHIP  
MARION TOWNSHIP  
LIBERTY TOWNSHIP  
HENRY COUNTY

For Part 2, See Scott Street Pavement Resurfacing

**INDEX OF SHEETS:**

TITLE SHEET	1
TYPICAL SECTION	2-16
GENERAL NOTES	17-18
PLAN INSERT SHEET	18A
MAINTENANCE OF TRAFFIC	19-20
GENERAL SUMMARY	21-22
SUBSUMMARIES	23-28
PLAN SHEETS	29-53
STRUCTURES OVER 20' SPAN	
HEN-109-00.51	54
HEN-109-01.42	55
HEN-109-01.68	56
HEN-109-02.78	57-58
HEN-109-18.76	59-74

**FEDERAL PROJECT NUMBER**

E200480

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

A PROJECT TO RESURFACE SR-108 IN HENRY COUNTY FROM SLM 17.64 TO 22.73 AND SR-109 IN HENRY COUNTY FROM SLM 0.00 TO 4.01 AND 16.58 TO 19.25. REHABILITATE THE HEN-109-1876 BRIDGE OVER TURKEYFOOD CREEK ON SR-109 IN HENRY COUNTY. PERFORM NECESSARY RELATED WORK.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA:	0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI Not Required)

**2023 SPECIFICATIONS**

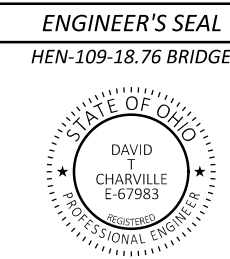
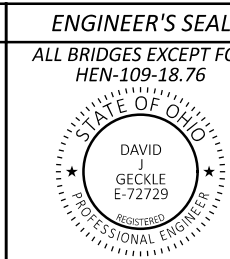
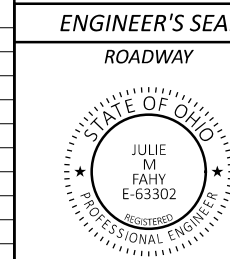
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEET 19, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

*Pat McColley, PE*  
Pat McColley, P.E., S.I.  
District 02 Deputy Director

*Pamela Boratyn*  
Pamela Boratyn  
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/19/24	RM-1.1	1/20/23	TC-42.20	10/18/13	800-2025 1/17/25	ASBESTOS
BP-3.2	1/18/19			TC-61.30	7/19/24	832 7/19/24	2/14/24
BP-4.1	7/19/13	AS-1-15	1/20/23	TC-64.10	7/21/23	872 1/17/25	WATERWAY
BP-5.1	1/17/25	AS-2-15	7/21/23	TC-65.10	1/17/24	874 4/17/20	PERMIT 8/29/24
BP-9.1	1/18/19	DS-1-92	7/15/22	TC-65.11	1/17/25	875 1/17/25	
MGS-1.1	1/17/25	SICD-1-21	1/19/24				
MGS-2.1	1/17/25	SICD-2-14	1/17/25				
MGS-2.3	1/20/23	IST-2-21	1/17/25				
MGS-3.1	1/19/18	MT-97.11	1/20/17				
MGS-3.3	7/16/21	MT-97.12	1/20/17				
MGS-4.2	1/17/25	MT-99.20	4/19/19				
MGS-4.3	1/18/15	MT-101.60	1/17/25				
MGS-5.2	7/15/16	MT-101.90	7/17/20				
MGS-5.3	7/15/16	MT-103.10	1/21/22				
MGS-6.1	1/19/18	MT-105.10	1/17/20				



DESIGN AGENCY	
DESIGNER	NRE
REVIEWER	JMF MM-DD-YY
PROJECT ID	110038
SHEET	1
TOTAL	74

TITLE SHEET

**ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR)**

**PLACEMENT OF ASPHALT CONCRETE**

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

SR-109 SLM 18.76 CLOSURE (NORTH TURKEYFOOT CREEK):

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ON SR-109 AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 120 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS DESCRIBED BELOW. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$5,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

THE DETOUR FOR THIS CLOSURE SHALL BE:

SR-109 NORTHBOUND:

SR-110 WESTBOUND TO US-6 WESTBOUND, TO THE INDUSTRIAL DR EXIT TO INDUSTRIAL DR SOUTHBOUND TO US-6 EASTBOUND TO US-24 EASTBOUND TO SR-109

SR-109 SOUTHBOUND: THE REVERSE OF THE NORTHBOUND DETOUR

THE DEPARTMENT WILL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE THE DETOUR ROUTE SIGNING.

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.

**DESIGNATED LOCAL DETOUR ROUTE**

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS:

CR-5 TO CR-4A TO CR-424

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 202 PAVEMENT REMOVED, 6"	928 SQ. YD.
ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE 1-1/2"	928 SQ. YD.
ITEM 301, ASPHALT CONCRETE BASE, PG 64-22	155 CU. YD.
ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	39 CU. YD.
ITEM 407, TACK COAT	79 GAL.
ITEM 617, COMPACTED AGGREGATE,	3 CU. YD.
ITEM 642, CENTER LINE, TYPE 1	0.06 MILE

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMP AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE  
ITEM DURATION SIGN DISPLAYED  
OF CLOSURE TO PUBLIC

RAMP & >=2 WEEKS 14 CALENDAR DAYS  
PRIOR TO CLOSURE

ROAD > 12 HOURS 7 CALENDAR DAYS  
& < 2 WEEKS PRIOR TO CLOSURE

CLOSURES <= 12 HOURS 2 BUSINESS DAYS  
PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

**ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

LOCATIONS: SR-109 NORTH AND SOUTH OF THE CLOSURE LOCATION

**ITEM 614, MAINTAINING TRAFFIC (SIGNS AND BARRICADES)**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

R11-3 SIGNS ON TYPE III BARRICADES  
SR-109 NORTHBOUND AT CR-424  
SR-109 SOUTHBOUND AT THE RAMP TO US-24 EASTBOUND  
SR-109 SOUTHBOUND AT CR-5 (SOUTH OF US-24)

R11-4 SIGNS ON TYPE III BARRICADES  
TR-6C NORTHBOUND AT CR-424  
TR-6C SOUTHBOUND AT CR-5

**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.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12HOURS & < 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.

**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 CMS 614.04 AND 614.11.

ITEM 614 - WORK ZONE MARKING SIGN	81 EACH
ITEM 614 - WORK ZONE EDGE LINE, CLASS I	35.38 MILE
ITEM 614 - WORK ZONE EDGE LINE, CLASS III	23.03 MILE
ITEM 614 - WORK ZONE CENTERLINE, CLASS I	17.77 MILE
ITEM 614 - WORK ZONE CENTERLINE, CLASS III	11.52 MILE
ITEM 614 - WORK ZONE STOP LINE, CLASS I	82 FT
ITEM 614 - WORK ZONE STOP LINE, CLASS III	82 FT

**ODOT NOTIFICATION CONTACT INFORMATION**

THE ODOT PROJECT ENGINEER SHALL FORWARD THE CONSTRUCTION NOTIFICATION INFORMATION THE FOLLOWING DEPARTMENTS WITHIN THE TIMELINE OUTLINED IN TEM PART 642-58 TO ENSURE COMPLIANCE WITH FEDERAL NOTIFICATION REQUIREMENTS:

DISTRICT PUBLIC INFORMATION OFFICER (PIO) BY PHONE AT: (419) 373-4428 OR EMAIL AT: D02.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION BY PHONE AT: (419) 373-4301 OR EMAIL AT: D02.PERMITS@DOT.OHIO.GOV

**TEMPORARY WEDGING**

ALL TEMPORARY ASPHALT WEDGING/REMOVAL OF WEDGE REQUIRED TO PROVIDE A SMOOTH TRANSITION FROM MILLED SURFACES TO EXISTING SURFACES THROUGHOUT THE PROJECT (INCLUDING DRIVE APPROACHES) ARE TO BE INCLUDED IN ITEM 614 MAINTAINING TRAFFIC.

**ITEM 614, REPLACEMENT SIGN**

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

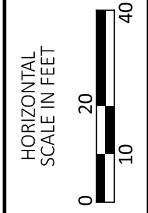
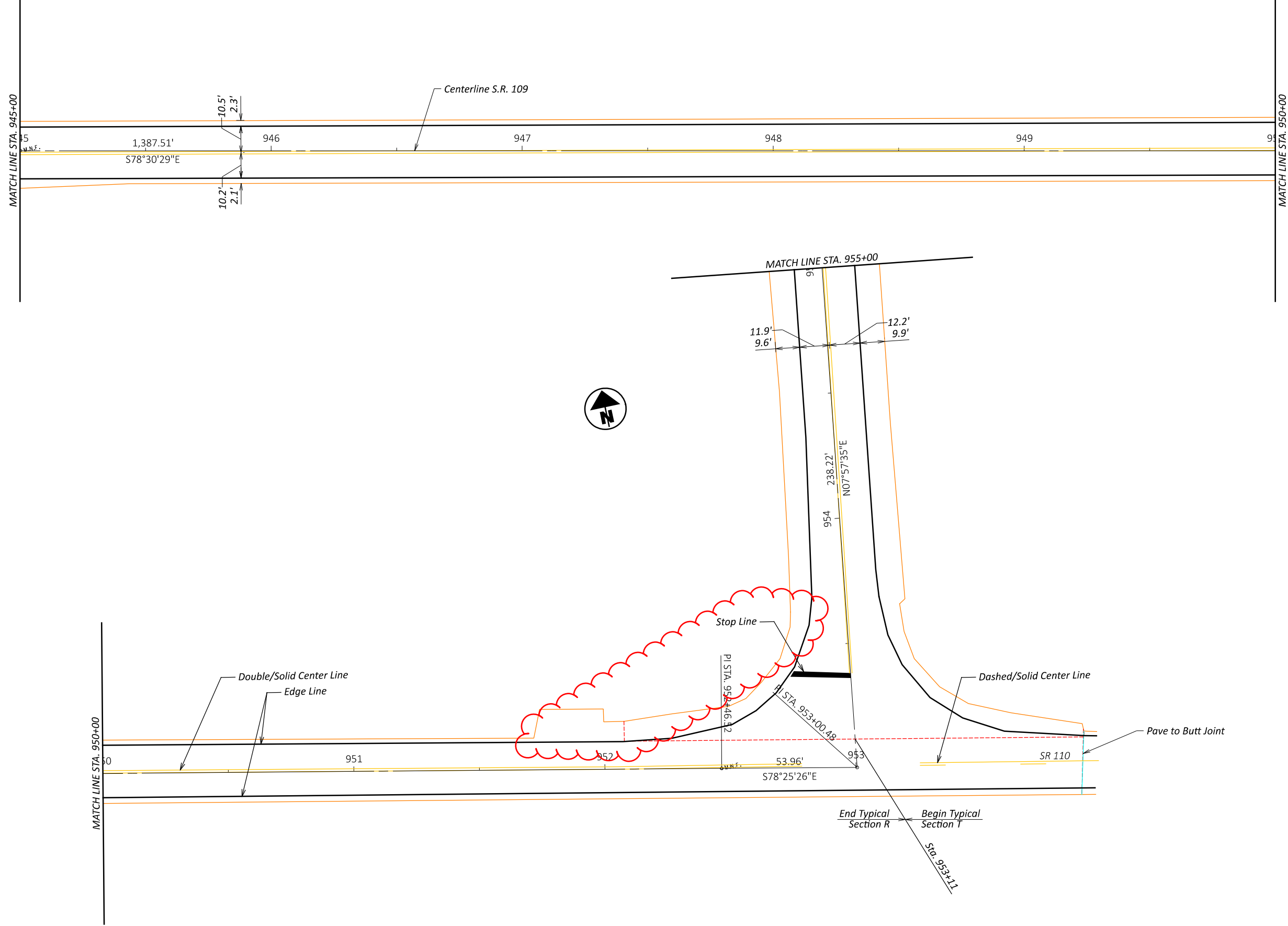
**ITEM 614, REPLACEMENT DRUM**

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

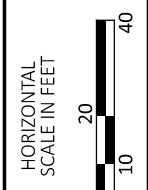
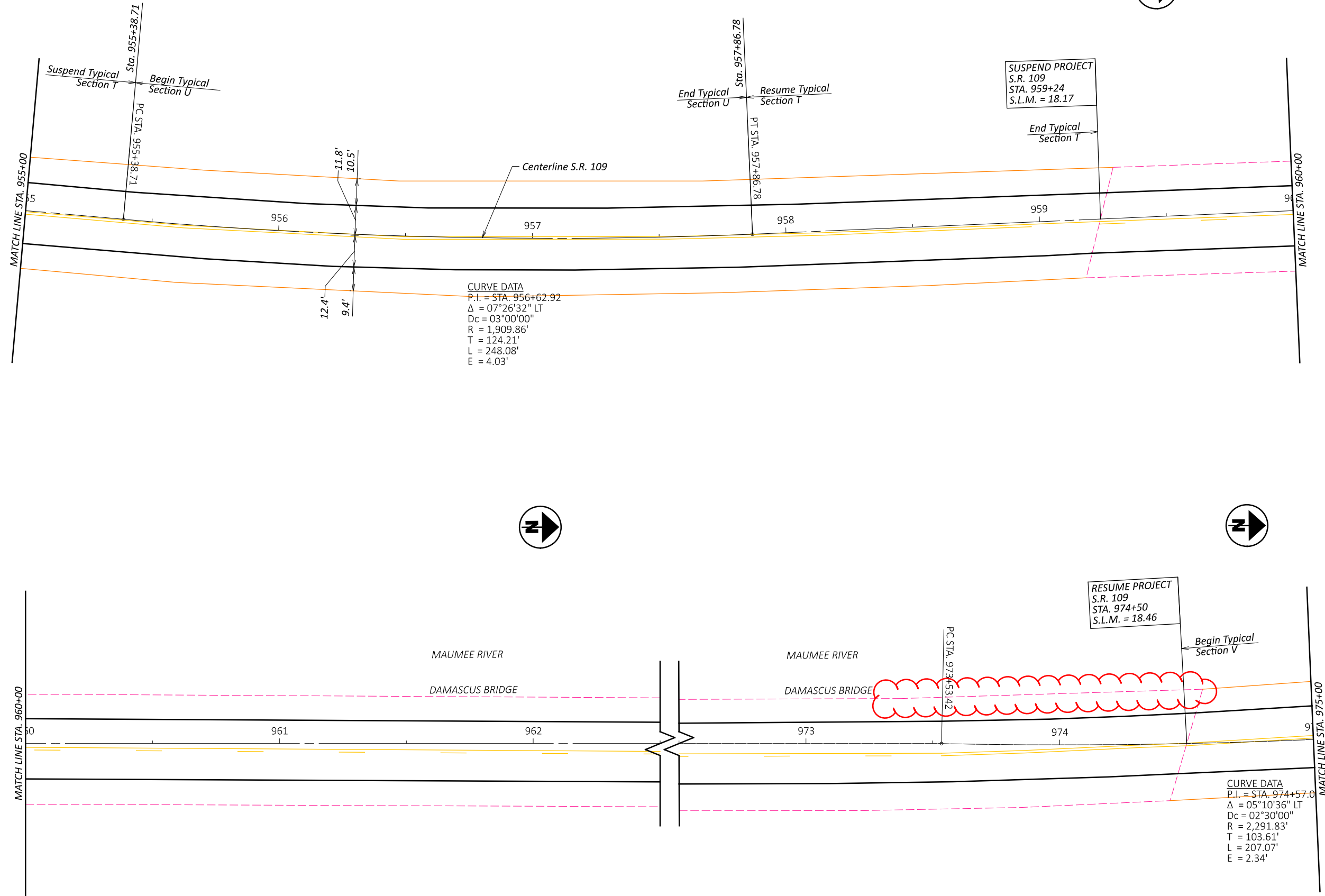
AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.





PLAN SHEET SR 109  
STA. 945+00 TO STA. 955+00

DESIGN AGENCY	
DESIGNER	NRE
REVIEWER	JMF MM-DD-YY
PROJECT ID	110038
SHEET	TOTAL
47	74



PLAN SHEET SR 109  
 STA. 955+00 TO STA. 975+00

DESIGN AGENCY



DESIGNER  
**NRE**

REVIEWER  
**JMF MM-DD-YY**

PROJECT ID  
**110038**


SHEET TOTAL  
 48 74

HEN-108/109-17.67/0.00

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ESTIMATED QUANTITIES (03/STR/13)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					2 / 16	
202	22900	134	SY	APPROACH SLAB REMOVED				134		
202	23500	921	SY	WEARING COURSE REMOVED				921		
203	10000	104	CY	EXCAVATION				104		
503	21101	128	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	128				2 / 16	
509	10000	66205	LB	EPOXY COATED STEEL REINFORCEMENT	2912		63293			
509	20001	200	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			200		2 / 16	
510	10000	282	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	258	24				
511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	2				7 / 16	
511	34413	262	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN			262		2 / 16	
511	45710	22	CY	CLASS QC1 CONCRETE, ABUTMENT	22					
512	10050	170	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	32		138			
512	33000	15	SY	TYPE 2 WATERPROOFING	15					
513	20000	3060	EACH	WELDED STUD SHEAR CONNECTORS			3060			
514	00050	9590	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			9590			
514	00056	9590	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			9590			
514	00060	9410	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			9410			
514	00066	9410	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			9410			
514	00504	20	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			20			
514	10000	5	EACH	FINAL INSPECTION REPAIR			5			
516	10010	98	FT	ARMORLESS PREFORMED JOINT SEAL				98		
516	13900	33	SF	2" PREFORMED EXPANSION JOINT FILLER	33					
516	14020	134	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	134					
516	44101	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14" X 12" X 2.583" WITH 15" X 13" X 1.5" LOAD PLATE)	12				8 / 16	
516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18" X 14" X 5.052" WITH 25.5" X 17" X 3" LOAD PLATE)		6			9 / 16	
516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14" X 12" X 2.583" WITH 19" X 15" X 2" LOAD PLATE)		6			9 / 16	
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN					2 / 16	
517	70100	336	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			336			
518	21200	54	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	54					
518	22300	397	FT	SPECIAL - STEEL DRIP STRIP	397					
518	40000	140	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	140					
518	40010	32	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	32					
519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	50	50			3 / 16	
526	25010	245	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				245		
526	90030	98	FT	TYPE C INSTALLATION				98		
601	32110	530	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER				530		

ESTIMATED QUANTITIES  
 BRIDGE NO. HEN-109-18.760  
 S.R. 109 OVER NORTH TURKEYFOOT CREEK

SFN	3503151
DESIGN AGENCY	
DESIGNER	CHECKER
JSH	DTC
REVIEWER	
GCB	11/08/24
PROJECT ID	110038
SUBSET	TOTAL
4	16
SHEET	TOTAL
P.62	74

CITY OF NAPOLEON  
ENGINEERING DEPARTMENT

▲ PID 110038

# SCOTT STREET PAVEMENT RESURFACING

FOR PART I, SEE HEN SRI08/109 16.57/0.00 ▲

FROM LAGRANGE ST. TO 2266 SCOTT ST.  
FROM 2360 SCOTT ST. TO VAN HYNING CREEK BRIDGE

City Of Napoleon

Mayor – Joseph Bialorucki  
City Manager – J. Andrew Small  
Finance Director – Kevin Garringer  
Law Director – Billy D. Harmon  
Director Of Public Works – Chad E. Lulfs, P.E., P.S.

City Council

J. Ross Durham, President  
Brittany Schwab, President Pro-Tem  
Ken Haase  
Dr. David Cordes  
Robert Weitzel  
Tom Weaver  
Jordan McBride

Index Of Sheets

Title Sheet.....1  
Typical Sections.....2  
Curb, Sidewalk & Pavement Details.....2A  
General Notes.....3  
Maintenance Of Traffic Notes.....4  
General Summary.....5  
Pavement Calculations.....6  
Utility Adjustments.....7  
Pavement Marking Calculations.....8  
Plan Sheets.....9-12

Federal Project Number

E200480

Railroad Involvement

None

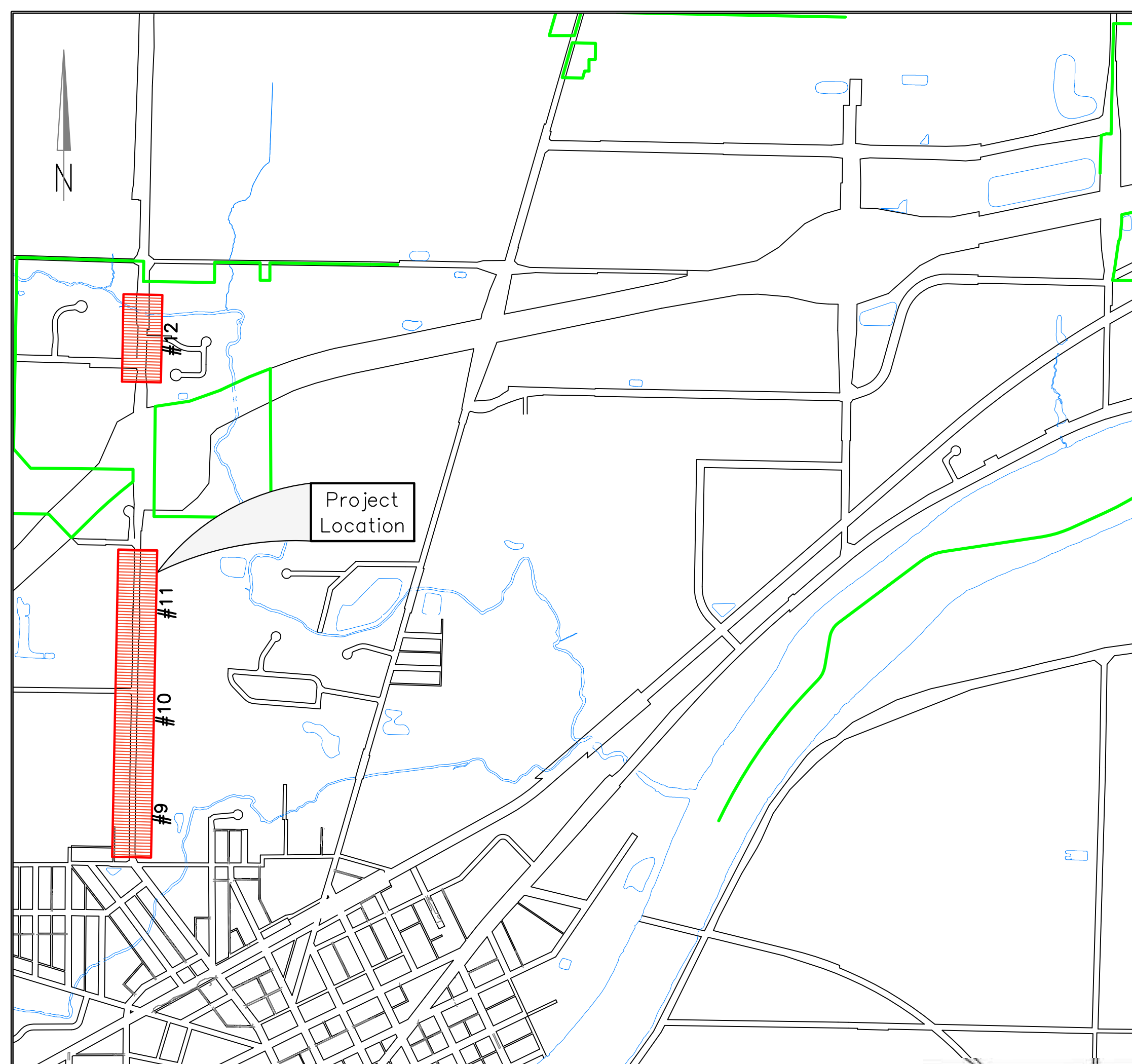
UNDERGROUND UTILITIES

2 WORKING DAYS

**BEFORE YOU DIG**

Call Toll Free 1-800-362-2764

Ohio Utilities Protection Service  
Non-Members  
Must Be Called Directly



Location Map  
2023

STANDARD CONSTRUCTION DETAILS		SUPPLEMENTAL SPECIFICATIONS
TC-74.10	7/21/23	

City Officials

▲

Mayor: Joseph Bialorucki Date: 12/5/24

City Manager: J. Andrew Small Date: 12-5-24

Finance Director: Kevin Garringer Date: 12-4-24

Director Of Public Works: Chad E. Lulfs, P.E., P.S. Date: 2024.12.04

Design Designation

Current ADT (2023).....8,683  
Design Year ADT (2038).....4,800  
Directional Distribution.....0.50  
Trucks (24 Hour B&C).....0.03  
Design Speed.....35  
Legal Speed.....35  
Design Function Classification  
Urban Collector  
Design Exceptions  
None Required

Project Description

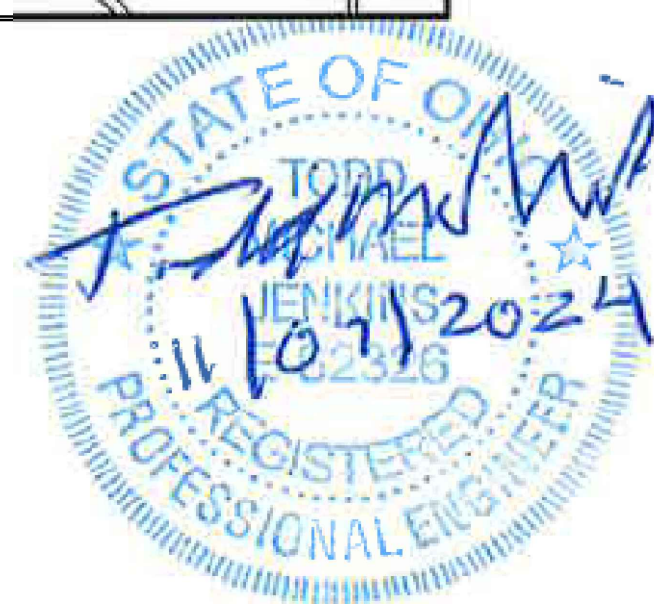
Resurface Scott Street In Napoleon (Henry County) Between Lagrange Street And 2266 Scott Street. Perform Necessary Related Work.

Earth Disturbed Area

Project Earth Disturbed Area: N/A  
Estimated Contractor Earth Disturbed Area: N/A  
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 Changes And Supplemental Specifications Listed In The Proposal Shall Govern This Project.



Roof Drains, Foundation Drains, And Other Clean Water Connections To The Sanitary Sewer System Are Prohibited

City of Napoleon Engineering Department  
255 West RiverView Avenue  
Napoleon, Ohio 43545  
Phone: (419) 592-4010  
Fax: (419) 599-8393

Plans Prepared By:  
Peterman Associates, Inc.  
3480 North Main Street  
Findlay, Ohio 45840  
Phone: (419) 422-6672  
Fax: (419) 422-9466  
PAI Project No. 23-0427

City of Napoleon  
Engineering Department  
255 West RiverView Avenue  
Napoleon, Ohio 43545  
Phone: (419) 592-4010  
Fax: (419) 599-8393

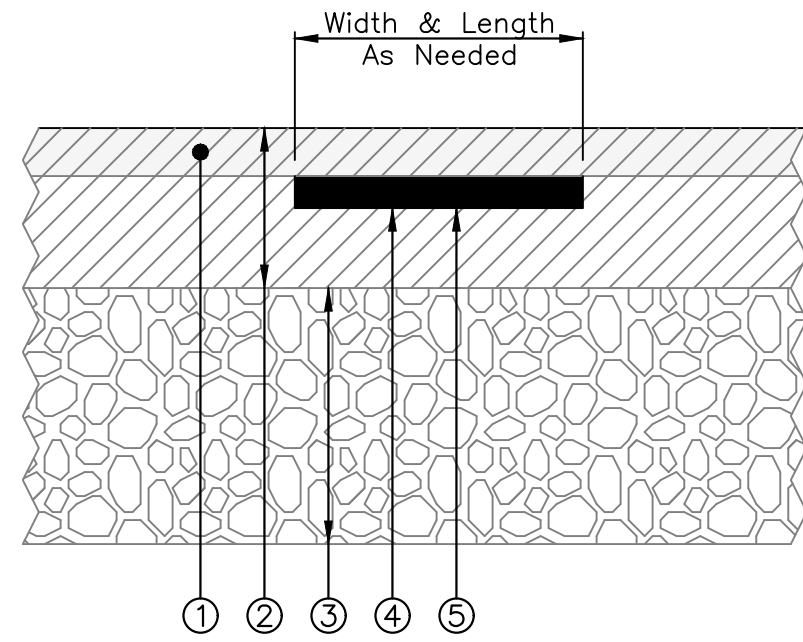
Scott Street  
Pavement Resurfacing  
Title Sheet

Scale: N.T.S.  
Plotted: 2/4/25  
Approved: Todd Jenkins  
Created: 2/4/25  
Drawn: Scott McDowell  
Drawing Name: 01-TITLE SHEET.dwg

Revision  
Date  
No.  
1  
2  
2/5/25  
Per ODOT Comments

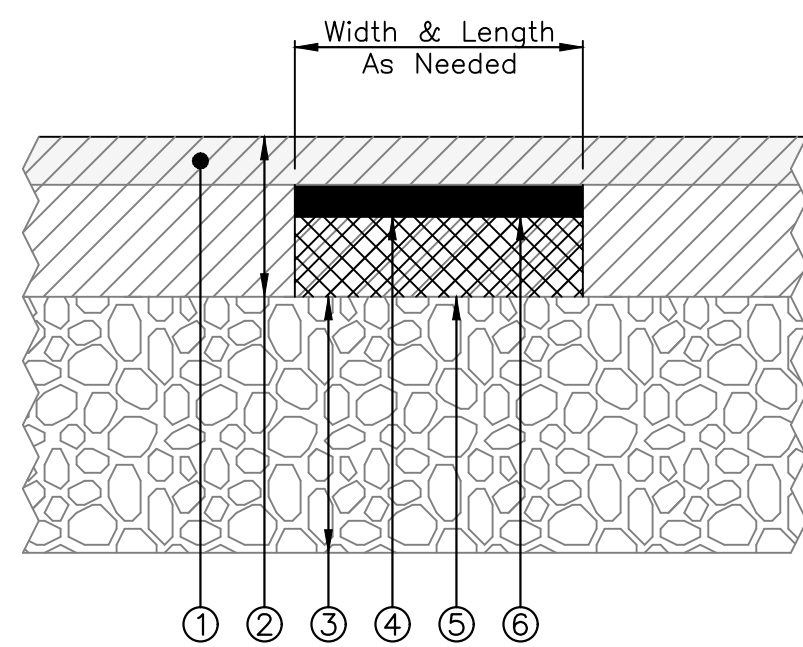
Chkd. By

Sheet 01\_of 12



- LEGEND**
- 1 Ex 1½" Pavement Milling & Overlay
  - 2 Ex Asphalt Pavement
  - 3 Existing Aggregate Base
  - 4 Pavement Repair (Item 442)
  - 5 PG Grade Liquid Asphalt (Placed On Sides & Bottom @ 0.25 gal./sq.yd.)(Cost Included In Unit Price For Item 251)

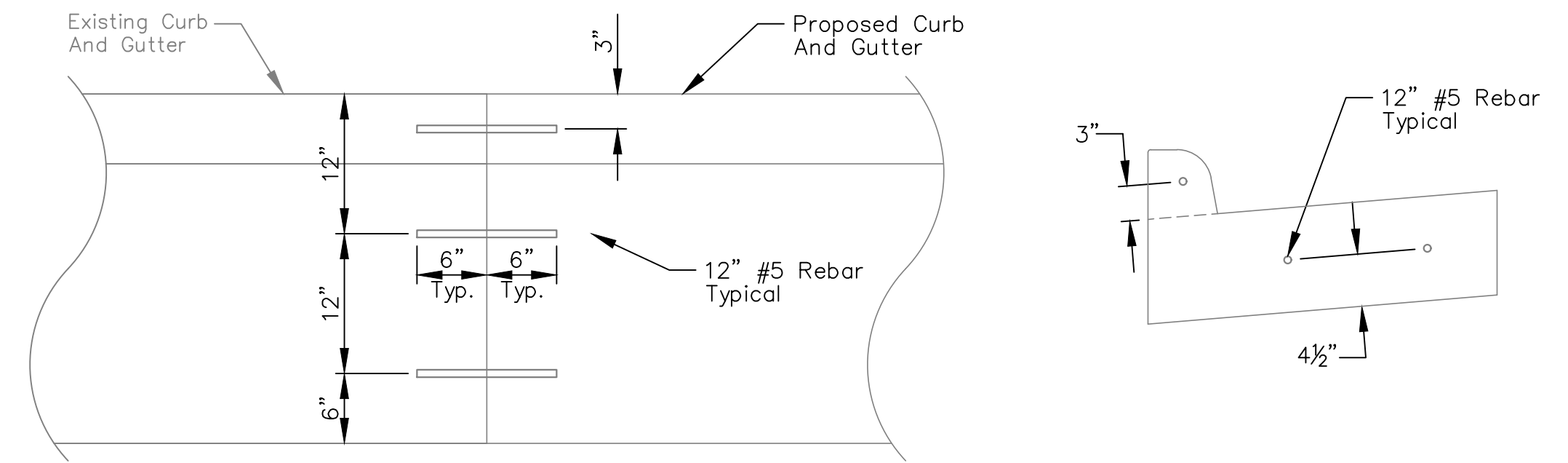
**ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR**  
(No Scale)



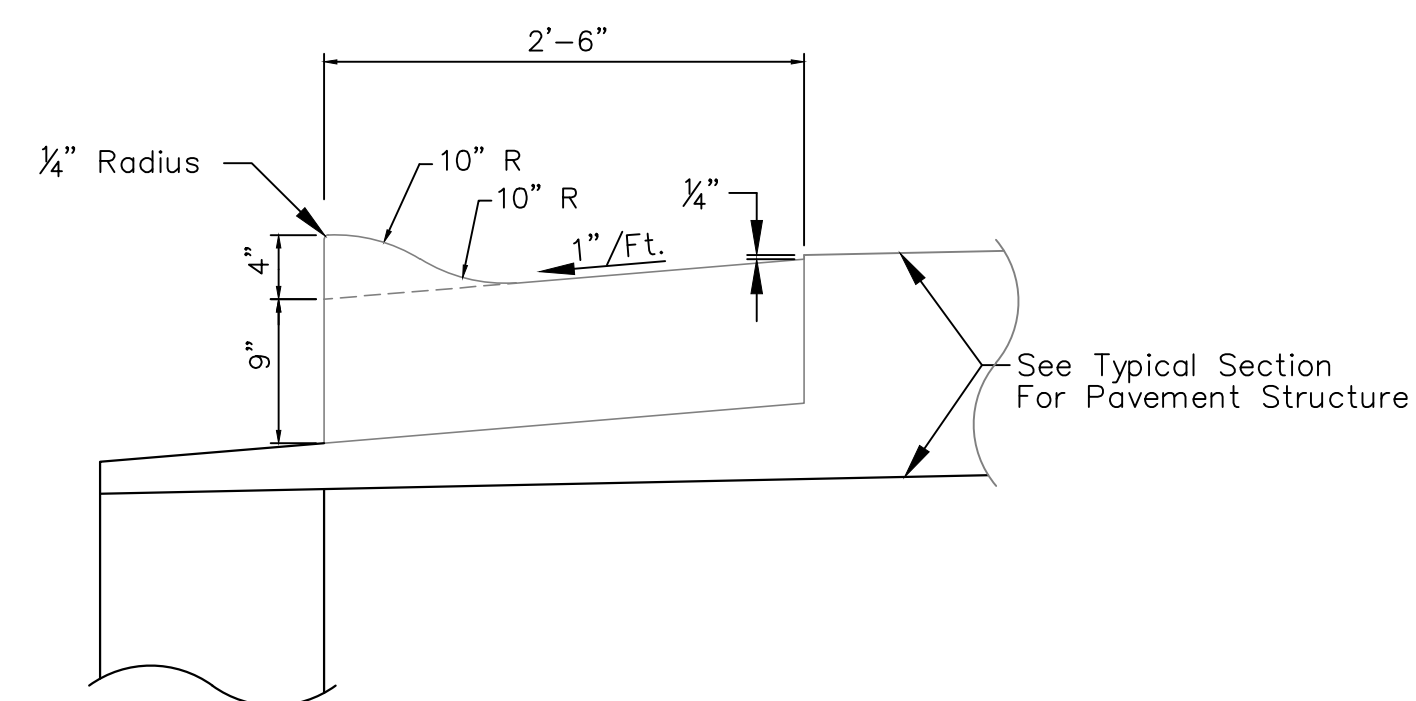
- LEGEND**
- 1 Ex 1½" Pavement Milling & Overlay
  - 2 Ex Asphalt Pavement
  - 3 Existing Aggregate Base
  - 4 Pavement Repair (Item 442)
  - 5 Intermediate Type 2 (Item 449)
  - 6 PG Grade Liquid Asphalt (Placed On Sides & Bottom @ 0.25 gal./sq.yd.)(Cost Included In Unit Price For Item 251)

**ITEM 253 – FULL DEPTH PAVEMENT REPAIR**  
(No Scale)

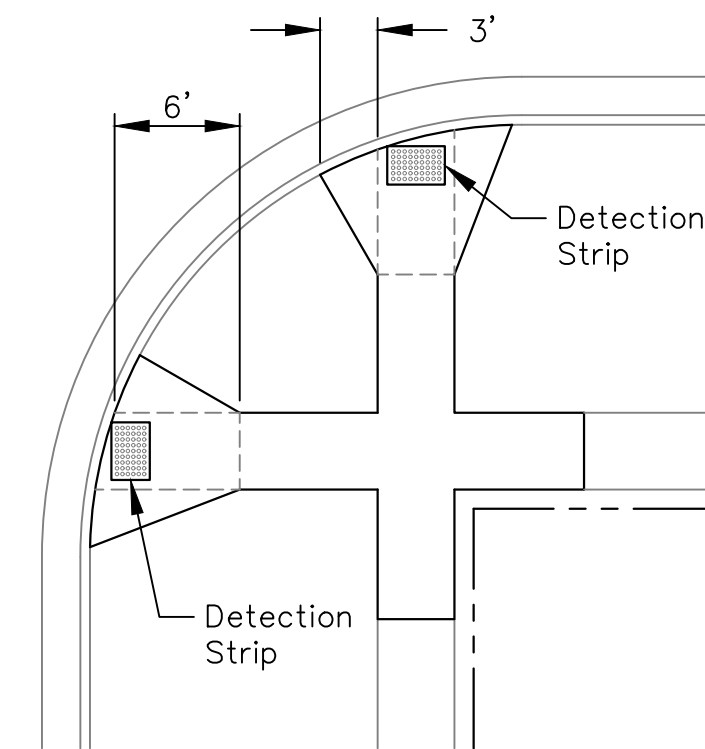
THIS SHEET ADDED WITH THE DETAILS



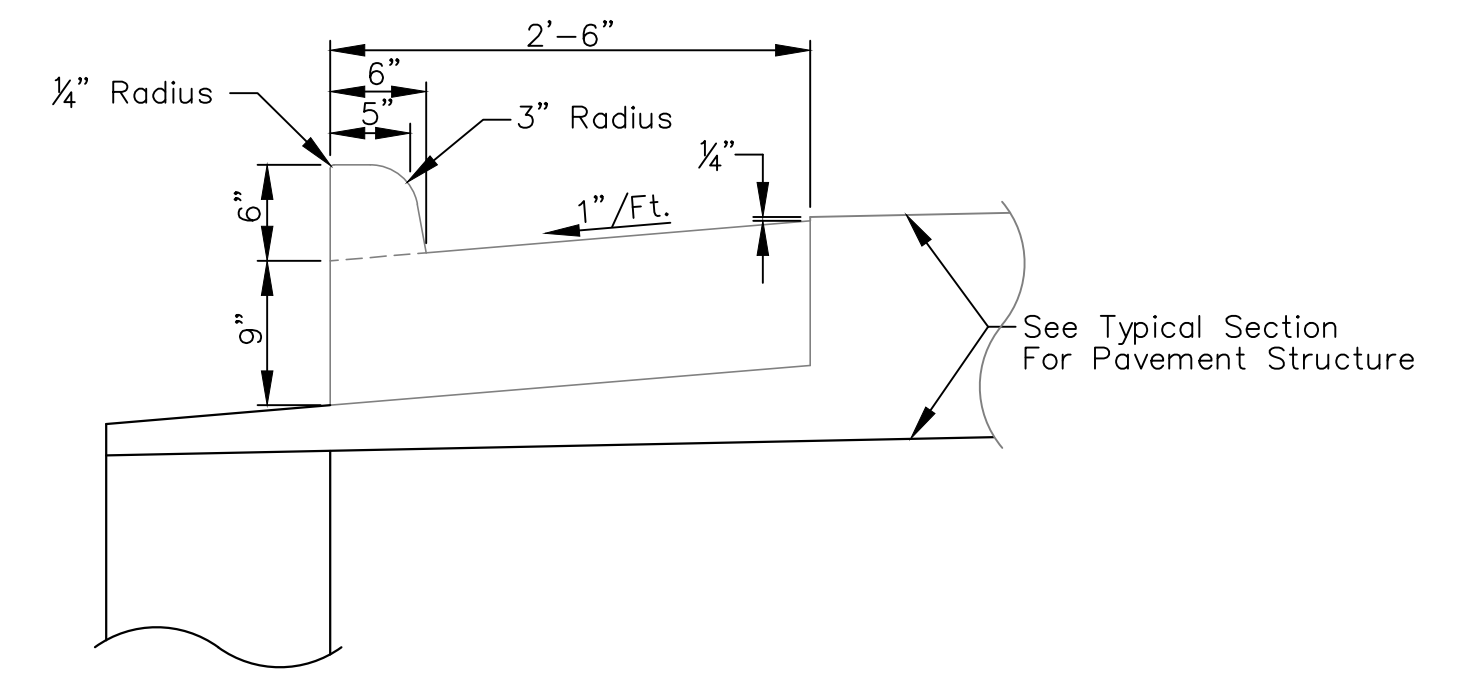
**Type 2 Curb Connection**



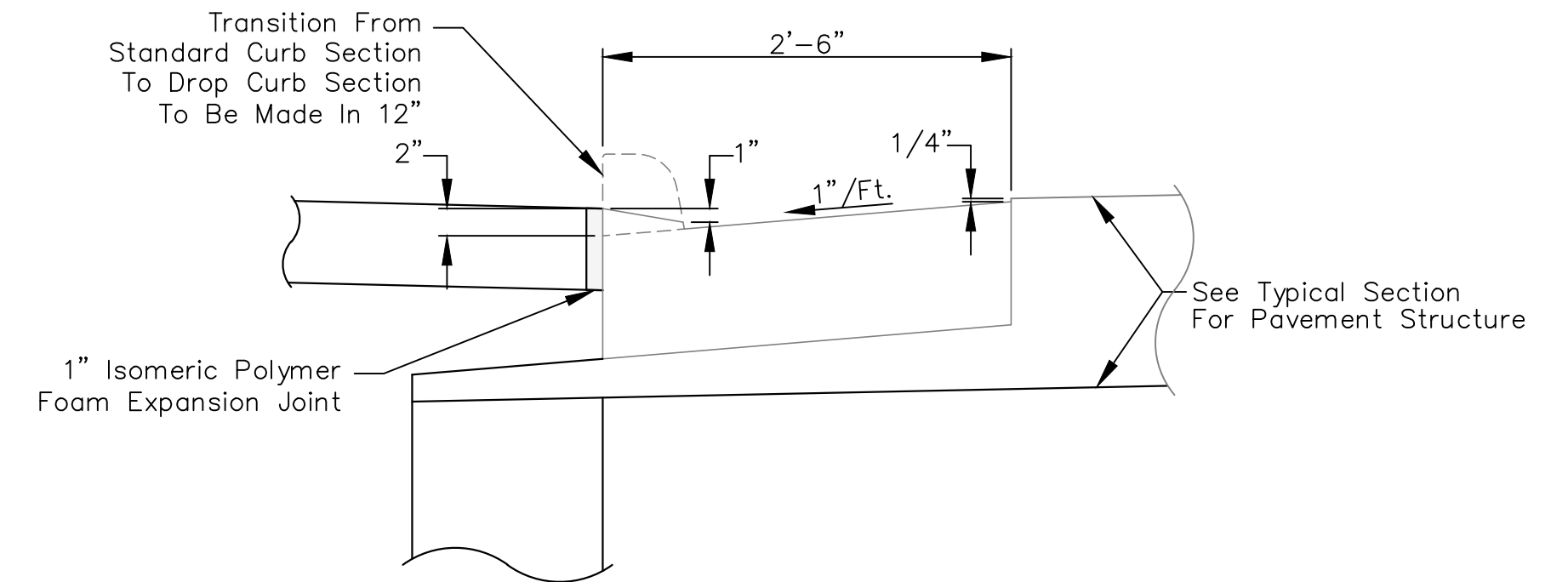
**Type 3 Curb And Gutter**



**Handicap Ramp**  
1:12 Maximum Slope



**Type 2 Curb And Gutter**



**Type 2 Drop Curb And Gutter**

Created: 2/4/25	Plotted: 2/4/25	Scale: 1"=20'	Sheet: 02A Of 12
Drawn: Scott A. McDowell	Approved: Todd Jenkins		
Drawing Name: 02A-DETAILS.DWG			
City Of Napoleon Engineering Department 255 West Riverview Avenue Napoleon, Ohio 43545 Phone: (419) 592-4010 Fax: (419) 599-8393			
Plans Prepared By: Peterman Associates, Inc. 3480 North Main Street Findlay, Ohio 45840 Phone: (419) 422-6672 Fax: (419) 422-9466 PAI Project No. 23-0427			
No. 1	Date	Revision	Chkd. By
2	2/5/25	Per ODOT Comments	

**EXISTING RIGHT-OF-WAY**

The Contractor Shall Perform All Work Within The Existing Right-Of-Way.

**MAINTAINING ACCESS**

Pedestrian Access Shall Be Maintained Through The Construction Zone At All Times By The Contractor.

**DRINKING WATER SOURCE**

This project is located in or near public drinking water sources. In order to minimize the potential for a release in this sensitive area, do not perform equipment fueling within the locations identified in the table below. If refueling of immobile equipment is necessary within these limits, provide secondary containment with enough capacity to completely contain and collect all potential liquid waste in the event of a spill. Do not perform maintenance activities associated with any viscous material that has potential to contaminate the groundwater. All equipment or liquid containers shall be regularly checked for leaks prior to entering the restricted areas. The contractor shall develop a Spill Prevention Control and Countermeasure Plan (SPCC) which shall also include all areas of fuel storage, equipment maintenance, and spill kits. All areas utilized by the contractor not included within the table below and not in the project limits shall be assessed for potential groundwater contamination and be indicated on the Spill Prevention Control and Countermeasures Plan. The contractor shall immediately take steps to mitigate any event, such as a spill of fuels, oils, or chemicals. Any such spill or event shall be reported immediately to the emergency contact listed below for each drinking water source. If the spill is a reportable amount, the contractor should contact Henry County Emergency Management (419-592-4876) and Ohio EPA Environmental Response and Revitalization (614-224-0946 or 800-282-9378) for cleanup of the spill.

DRINKING WATER SOURCE	RESTRICTED REFUELING AND MAINTENANCE AREA	EMERGENCY CONTACT INFORMATION
Northwest Water & Sewer District-McClure System Corridor Management Zone (Maumee River)		Henry County Emergency Management 419-592-4876

**ROUNDING**

The Rounding At Slope Breakpoints Shown On The Typical Sections Applies To All Cross-Sections Even Though Otherwise Shown.

**UTILITIES**

There Are No Underground Utilities Shown On This Plan. The Nature Of The Work Required By This Project Will Not Affect Any Known Underground Utilities That Exist Under Or Adjacent To The Work Area.

**WORK LIMITS**

The Work Limits Shown On These Plans Are For Physical Construction Only. Provide The Installation And Operation Of All Work Zone Traffic Control And Work Zone Traffic Control Devices Required By These Plans Whether Inside Or Outside These Work Limits.

**ELEVATION DATUM**

The horizontal datum is based on the City of Napoleon network.

**PROFILE AND ALIGNMENT**

The Proposed Pavement Resurfacing Shall Follow The Alignment And Profile Of The Existing Pavement. The Proposed Asphalt Concrete Overlay Shall Be As Shown On The Typical Sections.

**ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR**

Any Repairs Needed Under The 1½" Depth, Shall Be Paid For With Item 251, Partial Depth Repair. The Following Estimate Quantity Is Based On 8% Of The Total Area Of Pavement. See Detail On Sheet 02A.

Item 251, Partial Depth Repair = 1172 SQ YD

Quantity Carried To The General Summary

**ITEM 253, FULL DEPTH PAVEMENT REPAIR**

Any Repairs Needed Under The 1½" Depth, Shall Be Paid For With Item 253, Full Depth Repair. The Following Estimate Quantity Is Based On 10% Of The Total Area Of Pavement. See Detail On Sheet 02A.

Item 253, Full Depth Repair = 1465 SQ YD

Quantity Carried To The General Summary

**NAPOLEON SPECIFICATIONS**

1.1.1 All curb and combination curb and gutter not constructed integral with the base or pavement shall have ¼ inch contraction joints constructed at ten (10) foot intervals. The joint may be constructed with the use of metal separator plates, by the use of a grooving tool, or sawed. The depth of joint shall average two (2) inches or more for combination curb and gutter, and for curb shall average one-fourth or more of the curb height. The joint shall be filled with hot or cold applied joint sealer. Where expansion joints occur in the abutting pavement, they shall be provided for by separation of the section being placed with one (1) inch preformed joint filler conforming to an isomeric polymer foam with ultra violet resistance such as "Sonoflex", "Ceremar" from W.R. Meadows Co., or approved equal.

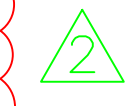
1.1.2 One (1) inch expansion joint filler shall be installed between the back of curb and all concrete drive approaches and sidewalks. One-half (1/2) inch expansion joint filler shall be installed at 50' intervals in all concrete walks. The top 1" of the joint between the back of curb and all concrete drive approaches shall be filled with rubber-asphalt joint sealer (ASTM D1190). The top ½" of the joint between all drive approaches and sidewalks and at 50' intervals in all concrete walks shall be sealed with Sonneborn Sonoloastic SL1-Urethane Sealant - Gray, or approved equal.

1.1.3 Concrete sidewalks and drive approaches shall have a broomed finish to slightly roughen the surface.

1.1.4 Curing shall be performed in accordance with ODOT Item 451.10, as subsequently modified.

1.1.5 The cost of curing shall be included in the cost of the respective concrete item(s).

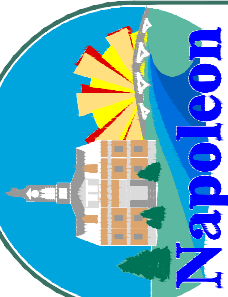
1.1.6 The curing compound utilized shall be white.



Created: 2/4/25	Drawn: Scott A. McDowell	Plotted: 2/4/25	Scale: N.T.S.	City of Napoleon Engineering Department 255 West Riverview Avenue Napoleon, Ohio 43545 Phone: (419) 592-4010 Fax: (419) 599-8393	Revision	Chkd. By	
				Plans Prepared By: <b>Peterman Associates, Inc.</b> 3480 North Main Street Findlay, Ohio 45840 Phone: (419) 422-6672 Fax: (419) 422-9466 PAJ Project No. 23-0427	Date		
					No.		
Approved: Todd Jenkins Drawing Name: 03-GENERAL NOTES.DWG				Scott Street Pavement Resurfacing General Notes - Environmental			
Sheet 03 Of 12							

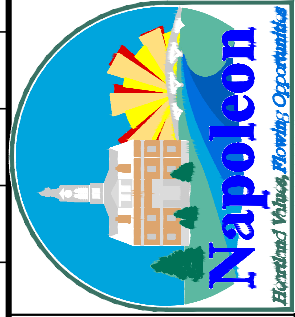


SHEET NUMBER									PART.		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	9	10	11	12	04/S5K	05/S5K									
					1				1	611	98630	1	EACH	DRAINAGE CATCH BASIN ADJUSTED TO GRADE		
					4				9	611	99654	9	EACH	MANHOLE ADJUSTED TO GRADE (STORM)		
					3				8	611	99654	8	EACH	MANHOLE ADJUSTED TO GRADE (SANITARY)		
														PAVEMENT		
									402.86	202	30000	402.86	SF	WALK REMOVED		
									20	202	32000	20	LF	CONCRETE CURB REMOVAL		
									1172	251	01020	1172	SY	PARTIAL DEPTH PAVEMENT REPAIR (442)		
									1465	253	01000	1465	SY	FULL DEPTH PAVEMENT REPAIR (442 & 449)		
									14645.29	254	01000	14645.29	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5")		
									805.50	407	20000	805.50	GAL	NON-TRACKING TACK COAT		
									610.22	442	00200	610.22	CY	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446)		
									292.80	409	30000	292.80	LF	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS		
									489.29	608	52001	489.29	SF	CURB RAMP (AS PER PLAN)		
									20	609	12000	20	LF	COMBINATION CURB & GUTTER, TYPE 2		
										623	39500	2	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE		
														WATER WORK		
										638	10800	3	EACH	VALVE BOX ADJUSTED TO GRADE		
														TRAFFIC CONTROL		
									.103	644	00200	.103	MILE	LANE LINE, 4" (SOLID DOUBLE YELLOW)		
									.954	644	00200	.954	MILE	LANE LINE, 4" (SOLID & DASHED DOUBLE YELLOW)		
									.199	644	00100	.199	MILE	EDGE LINE, 4" (WHITE SOLID)		
									.088	644	00300	.088	MILE	CENTER LINE (4" SOLID DOUBLE YELLOW)		
									298	644	00400	298	FT	CHANNELIZING LINE, 8" (WHITE SOLID)		
									60	644	00500	60	FT	STOP LINE (18" WHITE)		
									148	644	00631	148	FT	CROSSWALK LINE, 24", AS PER PLAN (PIANO KEY)		
									16	644	01300	16	EACH	LANE ARROW		
														MAINTENANCE OF TRAFFIC		
									100	614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
									26	614	12460	26	EACH	WORK ZONE MARKING SIGN		
									5	614	12500	5	EACH	REPLACEMENT SIGN		
									5	614	12600	5	EACH	REPLACEMENT DRUM		
									1.13	614	21400	1.13	MILE	WORK ZONE CENTER LINE, CLASS II		
									2.26	614	22350	2.26	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT		
									298	614	23000	298	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"		
									60	614	26610	60	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT		
									2	616	10000	2	MGAL	WATER		
														INCIDENTALS		
									1	614	11000	1	LS	MAINTAINING TRAFFIC		
									1	623	10000	1	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING		
									1	624	10000	1	LS	MOBILIZATION		

Checked By:	
Revision:	
Date:	2/5/25
No.:	1
Plans Prepared By: <b>Peterman Associates, Inc.</b> 3480 North Main Street Findlay, Ohio 45840 Phone: (419) 422-6672 Fax: (419) 422-9466 PAI Project No. 23-0427	
	
City of Napoleon Engineering Department 255 West Riverview Avenue Napoleon, Ohio 43545 Phone: (419) 592-4010 Fax: (419) 599-8393	
Scott Street Pavement Resurfacing General Summary	
Scale:	N.T.S.
Plotted:	2/17/25
Approved:	Todd Jenkins
Created:	2/17/25
Drawn:	Scott A. McDowell
Drawing Name:	05-GENERAL SUMMARY.DWG

ROUTE	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE ROADWAY WIDTH (W)	MOUTH	THROAT	SURFACE AREA CALCULATED BY CADD	SURFACE AREA (A) A = L x W	254	407	442	409
				FEET	FEET	FEET	FEET	SQ FT	SQ FT	SQ YD	GALLON	CU YD	FEET
SCOTT STREET	875+57.13	875+99.55	NB/SB	42.42	22.60				958.69	106.52	5.86	4.44	64.26
SCOTT STREET	875+99.55	891+34.46	NB/SB	1534.91	36.00				55,256.76	6139.64	337.68	255.82	13.39
SCOTT STREET	892+18.17	897+81.86	NB/SB	563.69	36.00				20,292.84	2254.76	124.01	93.95	
SCOTT STREET	898+97.63	900+86.36	NB/SB	188.73	46.86				8843.89	982.65	54.05	40.94	
SCOTT STREET	901+99.67	905+34.73	NB/SB	335.06	36.00				12,062.16	1340.24	73.71	55.84	35.90
SCOTT STREET	924+09.50	924+86.62	NB/SB	77.12	31.75				2448.56	272.06	14.96	11.34	23.92
SCOTT STREET	925+97.71	927+65.20	NB/SB	167.49	29.56				4951.00	550.11	30.26	22.92	
SCOTT STREET	928+50.35	930+18.02	NB/SB	167.67	31.34				5254.78	583.86	32.11	24.33	
INTERSECTIONS													
SCOTT STREET	891+34.46	892+18.17							3782.35	420.26	23.11	17.51	33.19
SCOTT STREET	897+81.86	898+97.63							5283.02	587.00	32.29	24.46	
SCOTT STREET	900+86.36	901+99.67							5170.13	574.46	31.60	23.94	
SCOTT STREET	924+86.62	925+97.71							4310.12	478.90	26.34	19.95	83.46
SCOTT STREET	927+65.20	928+50.35							3193.49	354.83	19.52	14.78	38.73
TOTALS CARRIED TO GENERAL SUMMARY									14645.29	805.50	610.22	292.85	

Plans Prepared By: Peterman Associates, Inc.  
 3480 North Main Street  
 Findlay, Ohio 45840  
 Phone: (419) 422-6672  
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 PAI Project No. 23-0427



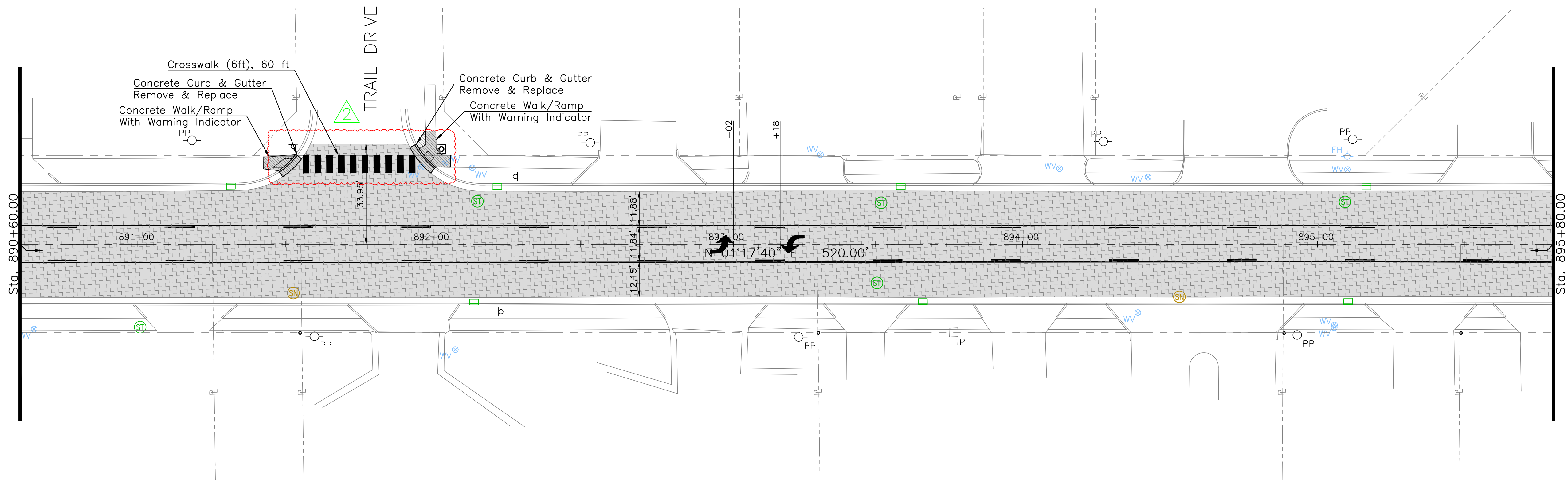
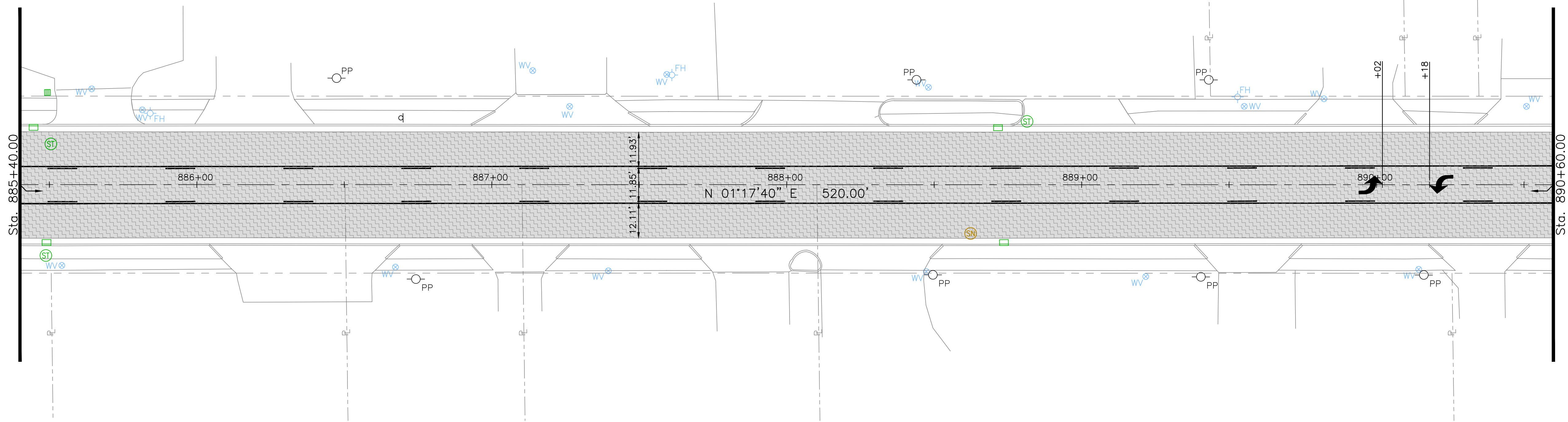
City of Napoleon  
 Engineering Department  
 255 West Riverview Avenue  
 Napoleon, Ohio 43545  
 Phone: (419) 592-4010  
 Fax: (419) 599-8393

Scott Street  
 Pavement Resurfacing  
 Pavement Calculations

Created: 2/4/25  
 Drawn: Scott A. McDowell  
 Plotted: 2/4/25  
 Scale: N.T.S.  
 Approved: Todd Jenkins  
 Drawing Name: 06-PAVEMENT CALC.DWG

No. 1  
 Date 2/5/25  
 Revision Per ODOT Comments

Chkd. By:



Sta. 885+40.00

Sta. 890+60.00

Sta. 890+60.00

Sta. 895+80.00

Created: 2/4/25	Plotted: 2/4/25	Scale: 1"=20'	Sheet 10 Of 12
Drawn: Scott A. McDowell	Approved: Todd Jenkins		
Drawing Name: 09-SCOTT ST PLAN SHEETS.DWG			
Scott Street Pavement Resurfacing Plan Sheet Sta. 885+40 To Sta. 895+80			
City of Napoleon Engineering Department 255 West Riverview Avenue Napoleon, Ohio 43545 Phone: (419) 592-4010 Fax: (419) 599-8393			
Plans Prepared By: Peterman Associates, Inc. 3480 North Main Street Findlay, Ohio 45840 Phone: (419) 422-6672 Fax: (419) 422-9466 PAI Project No. 23-0427			
No.	Date	Revision	Chkd. By
1			
2	2/5/25	Per ODOT Comments	