

LOCATION MAP

LATITUDE: 41°14'32" LONGITUDE: 82°36'56"



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

DESIGN DESIGNATION

SEE SHEET 2

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

REQUIRED

ENGINEER'S SEAL REMAINDER OF PLANS	
ENGINEER'S SEAL PEDESTRIAN FACILITIES	ENGINEER'S SEAL BRIDGE

INDEX OF SHEETS:							
TITLE SHEET	1						
SCHEMATIC SHEET	2	-	4				
TYPICAL SECTIONS	5	-	6				
GENERAL NOTES	7	-	17				
MAINTENANCE OF TRAFFIC NOTES	18	-	19				
GENERAL SUMMARY	20	-	23				
PAVEMENT AND SHOULDER DATA	24	-	26				
GUARDRAIL SHEETS	27	-	44				
PEDESTRIAN FACILITIES	45	-	136				
TRAFFIC SUBSUMMARY	137	-	139				
MISCELLANEOUS TRAFFIC DETAIL	140						
STRUCTURE REPAIR							
STRUCTURE REPAIR SFN: 3902048	141	-	146				
STRUCTURE REPAIR SFN: 3902250	147						

STANDARD CONSTRUCTION DRAWINGS							
BP-3.1	1/19/24	MT-95.31	7/19/19	TC-71.10	4/21/23		
BP-4.1	7/19/13	MT-95.32	4/19/19	TC-74.10	7/21/23		
BP-5.1	7/15/22	MT-96.11	7/21/23	TC-82.10	7/19/19		
BP-7.1	7/19/24	MT-96.20	7/21/23	TC-83.20	7/19/24		
		MT-96.26	1/18/19				
MGS-1.1	7/16/21	MT-97.10	4/19/19				
MGS-2.1	1/19/18	MT-97.12	1/20/17				
MGS-3.1	1/19/18	MT-99.20	4/19/19				
MGS-3.2	1/18/13	MT-101.90	7/17/20				
MGS-4.2	7/19/13	MT-105.10	1/17/20				
MGS-6.1	1/19/18	MT-110.10	7/19/13				
RM-1.1	1/20/23	TC-41.10	7/19/13				
		TC-41.20	10/18/13				
DBR-3-11	7/15/11	TC-52.10	10/18/13				
		TC-52.20	1/15/21				

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

HUR-250/61-0.75/VAR

NORWALK TOWNSHIP  
CITY OF NORWALK  
HURON COUNTY

FEDERAL PROJECT NUMBER

E240018

RAILROAD INVOLVEMENT

WHEELING & LAKE ERIE

PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE PAVEMENT REPAIRS, PAVEMENT PLANING, ASPHALT CONCRETE RESURFACING, BRIDGE MAINTENANCE INCLUDING CONCRETE REPAIRS, THE REPLACEMENT OF PAVEMENT MARKINGS, AND THE UPGRADE OF PEDESTRIAN ACCESS FACILITIES TO FEDERAL STANDARD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A ACRES*
(*=MAINTENANCE PROJECT)	

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.

Robert Weaver  
District 03 Deputy Director

Pamela Boratyn  
Director, Department of Transportation

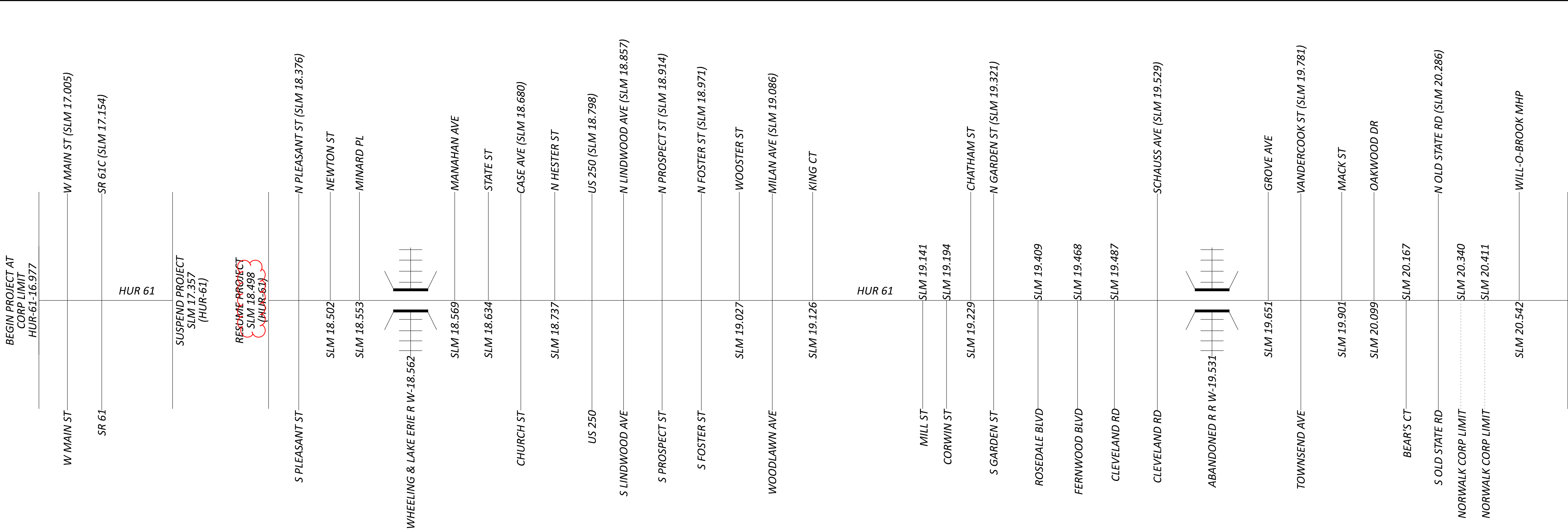
UNDERGROUND UTILITIES

Contact Two Working Days  
Before You Dig

Before You Dig

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

PLANS PREPARED BY:  
  
OHIO DEPARTMENT OF  
TRANSPORTATION  
DISTRICT THREE ENGINEERING



DESIGN DESIGNATION

	<u>HUR-SR 61-16.96-17.15</u>	<u>HUR-SR 61-17.15-17.35</u>	<u>HUR-SR 61-18.24-18.55</u>	<u>HUR-SR 61-18.55-19.17</u>	<u>HUR-SR 61-19.17-19.48</u>	<u>HUR-SR 61-19.48-20.28</u>	<u>HUR-SR 61-20.28-20.55</u>
CURRENT ADT (2025)	7,500	7,500	7,500	7,500	7,500	7,500	7,500
DESIGN YEAR ADT (2037)	8,300	8,300	8,300	8,300	8,300	8,300	8,300
DESIGN HOURLY VOLUME (2037)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
DIRECTIONAL DISTRIBUTION	51%	51%	51%	51%	51%	51%	51%
TRUCKS (24 HR B&C)	5%	5%	5%	5%	5%	5%	5%
DESIGN SPEED	35 MPH	45 MPH	35 MPH	25 MPH	35 MPH	35 MPH	35 MPH
LEGAL SPEED	35 MPH	45 MPH	35 MPH	25 MPH	35 MPH	35 MPH	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR	OTHER PRINCIPAL ARTERIAL	OTHER PRINCIPAL ARTERIAL	OTHER PRINCIPAL ARTERIAL	OTHER PRINCIPAL ARTERIAL	MINOR ARTERIAL	MAJOR COLLECTOR
NHS PROJECT	NO	NO	NO	NO	NO	NO	NO



GENERAL

UTILITIES  
(G102A)

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CABLE CHARTER COMMUNICATIONS 5520 WHIPPLE AVENUE NW NORTH CANTON, OH 44720 330.494.9200	GAS COLUMBIA GAS OF OHIO 1800 BROAD AVENUE FINDLAY, OH 45840 419.427.3225
COMMUNICATION FRONTIER COM 83 TOWNSEND AVENUE NORWALK, OH 44857 419.744.3613	COUNTY HURON COUNTY ENGINEER DEPT. 150 JEFFERSON STREET NORWALK, OH 44857 419.668.1997
VILLAGE VILLAGE OF MONROEVILLE 2 S. MAIN STREET (P.O. BOX 256) MONROEVILLE, OH 44847 419.465.4443	WATER NORTHERN OHIO RURAL WATER P.O. BOX 96 COLLINS, OH 44826 419.668.7213
CITY CITY OF NORWALK 38 WHITTLESEY AVE. NORWALK, OH 44857 419.663.6735	ELECTRIC OHIO EDISON 2508 WEST PERKINS AVENUE SANDUSKY, OH 44870 419.627.6881
FIBER OPTIC OMNI FIBER 4680 PARKWAY DR., SUITE 450 MASON, OH 45040 513.480.9602	FIBER OPTIC WINDSTREAM 50 EXECUTIVE PKWY HUDSON, OH 44236 330.650.7663
COMMUNICATION ZAYO FIBER SOLUTIONS 4199 KINROSS LAKES PARKWAY RICHFIELD, OH 44286 740.501.6921	GAS BUCKEYE OIL PIPELINE COMPANY P.O. BOX 542 MANTUA, OH 44255 330.931.8309
GAS TC ENERGY 589 N STATE ROAD MEDINA, OH 44256 330.721.4163	COMMUNICATION EVERSTREAM SOLUTIONS 800 W ST CLAIR, 2ND FLOOR CLEVELAND, OH 44113 216.581.7972

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

EXISTING PLANS  
(G103)

EXISTING PLANS ENTITLED D03-82315-HUR-00250-0.73-2013-00, DATED 1/10/13 MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND. ALL RELEVANT EXISTING PLANS CAN BE FOUND IN THE REFERENCE FILES FOR THIS PROJECT.

CONSTRUCTION NOISE  
(G104)

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9PM AND 6AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

EXCEPTIONS TO THE CITY ORDINANCE CAN BE MADE WITH PRIOR APPROVAL FROM THE CITY OF NORWALK AND THE ENGINEER. THE CITY HAS RECOMMENDED THAT WORK IN THE UPTOWN AREA BE DONE AT NIGHT DUE TO THE AMOUNT OF TRAFFIC IN THE AREA DURING NORMAL WORKING HOURS. THESE LOCATIONS AND TIME EXCEPTIONS CAN ONLY BE AUTHORIZED AFTER DIRECT CORRESPONDENCE WITH THE CITY.

WORK LIMITS  
(G106)

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.

COORDINATION OF WORK BETWEEN CONTRACTORS

FOR ANY LOCATION WHERE PAVERS ARE TO BE REMOVED AS PART OF PEDESTRIAN FACILITIES UPGRADES, THE CONTRACTOR SHALL REACH OUT TO THE CITY OF NORWALK FOR THE INSCRIBED MEMORIAL PAVERS TO BE MOVED PRIOR TO WORK BEGINNING IF THE PAVERS HAD NOT ALREADY BEEN MOVED PRIOR.

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY SEPARATE CONTRACTS. THE TABLE BELOW SHOWS ALL THE NECESSARY INFORMATION THE CONTRACOTR SHOULD KNOW. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

COORDINATION OF WORK BETWEEN CONTRACTORS		
PID:	TYPE:	CONSTRUCTION YEAR:
111400	PAVING	2024
118964	PAVING	2026
120248	SRTS	2026
120948	PAVING	2027
123420	PAVING	2028

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

PRECONSTRUCTION MEETING

THE PRECONSTRUCTION MEETING SHALL BE HELD WITHIN 45 CONSECUTIVE CALENDAR DAYS AFTER AWARD OF THE CONTRACT.

PRECONSTRUCTION PEDESTRIAN FACILITY LAYOUT INSPECTION

THE PROPOSED LAYOUT OF THE PEDESTRIAN FACILITIES INCLUDED IN THESE PLANS IS TO BE FIELD REVIEWED AND VERIFIED FOR COMPLIANCE WITH THE PLANS AND APPROPRIATE STANDARDS PRIOR TO PERFORMING ANY ASSOCIATED REMOVAL OR CONSTRUCTION. THIS MEETING IS INTENDED TO REVIEW PROPOSED WORK AS LAID OUT BY THE CONTRACTOR PRIOR TO THE MEETING; THIS MEETING IS NOT INTENDED TO LAYOUT ALL LOCATIONS IN CONJUNCTION WITH THE CONTRACTOR. THE CONTRACTOR SHOULD ADHERE TO THE PROJECT PLANS ON INITIAL LAYOUT PRIOR TO THIS MEETING, DETERMINE IF THERE ARE QUESTIONS, CONCERNS, OR CONTRACTOR-PROPOSED MODIFICATIONS TO THE DESIGN AT EACH LOCATION, AND BE PREPARED TO DISCUSS ANY SUCH LOCATIONS.

THE MEETING PARTICIPANTS WILL REVIEW EACH LOCATION AS REQUESTED BY THE CONTRACTOR, ADHERING TO THE ABOVE DETAILS. ADDITIONAL LOCATIONS WILL BE VERIFIED BY DISTRICT PERSONNEL FOR ADHERENCE TO THE PLANS AND SPECIFICATIONS.

COORDINATE WITH THE PROJECT ENGINEER TO SCHEDULE THE MEETING WITH ALL APPROPRIATE STAKEHOLDERS IN ORDER TO PROVIDE A MINIMUM OF 14 CALENDAR DAY NOTICE TO ALL MEETING ATTENDEES. THE REQUIRED STAKEHOLDERS ARE THE DISTRICT ADA ENGINEER, DISTRICT ADA COORDINATOR, MUNICIPAL REPRESENTATIVE (IF APPLICABLE), PROJECT ENGINEER, AND CONTRACTOR REPRESENTATIVE. THE ENGINEER OF RECORD, ODOT PROJECT MANAGER, ODOT DESIGNERS, AND CONSTRUCTION AREA ENGINEER SHOULD BE INVITED AS OPTIONAL ATTENDEES.

ALL MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS NEEDED TO COMPLETE THIS MEETING ARE TO BE INCLUDED IN THE CONTRACT BID PRICE FOR THE APPROPRIATE PEDESTRIAN FACILITY ASSOCIATED WITH THIS WORK.


ADA WAIVER  
(R128)

AN APPROVED ADA DESIGN WAIVER IS REQUIRED ON THIS PROJECT. THE FOLLOWING FEATURES LISTED BELOW CANNOT FEASIBLY BE CONSTRUCTED TO MEET ADA GUIDELINES.

ADA DESIGN WAIVERS			
LOCATION CODE	ADA FEATURE (ID NUMBER)	APPROVAL DATE	SEE SHEET NUMBER
A3	CURB RAMP RMP0028557	2024-12-31	46
A4	CURB RAMP RMP0028556	2024-12-31	46
C5	CURB RAMP RMP0028558	2024-12-31	48
C6	CURB RAMP RMP0028559	2024-12-31	48
G3	CURB RAMP RMP0028561	2024-12-31	52
G4	CURB RAMP RMP0028562	2024-12-31	52
I1	CURB RAMP RMP0028563	2024-12-31	54
I2	CURB RAMP RMP0028564	2024-12-31	54
I3	CURB RAMP RMP0028565	2024-12-31	54
I4	CURB RAMP RMP0028566	2024-12-31	54
J1	CURB RAMP RMP0028567	2024-12-31	55
J2	CURB RAMP RMP0028568	2024-12-31	55
J3	CURB RAMP RMP0028569	2024-12-31	55
K1	CURB RAMP RMP0028570	2024-12-31	56
K2	CURB RAMP RMP0028571	2024-12-31	56
K3	CURB RAMP RMP0028572	2024-12-31	56
K4	CURB RAMP RMP0028573	2024-12-31	56
L1	CURB RAMP RMP0028574	2024-12-31	58
L5	CURB RAMP RMP0028575	2024-12-31	59
L6	CURB RAMP RMP0028576	2024-12-31	59
M2	CURB RAMP RMP0028577	2025-01-02	60
M7	CURB RAMP RMP0028580	2024-12-31	60
N2	CURB RAMP RMP0028693	2024-12-31	61

DESIGN AGENCY

DISTRICT 3



ENGINEERING TEAM ONE

DESIGNER

ERC

REVIEWER

KRB 12/23/24

PROJECT ID

107782

SHEET

P.007

TOTAL

147



ROADWAY

ITEM 623 – MONUMENT ASSEMBLY ADJUSTED/RECONSTRUCTED TO GRADE

THE CONTRACTOR AND THE ENGINEER SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING MONUMENT ASSEMBLIES LISTED IN THE PLANS PRIOR TO BEGINNING ANY WORK ON THE MONUMENT ASSEMBLIES. THE USE OF A METAL DETECTOR AND/OR GPS SURVEY EQUIPMENT MAY BE NECESSARY TO LOCATE BURIED MONUMENT ASSEMBLIES. ANY MONUMENT ASSEMBLY THAT IS IMMEDIATELY VISIBLE ON THE SURFACE OF THE EXISTING PAVEMENT, OR IS UNCOVERED DURING THE PLANING PROCESS, SHALL BE ADJUSTED TO GRADE IF WITHIN TOLERANCE OF THE ADJUSTMENT COLLAR. ANY MONUMENT NOT FITTING THIS CRITERIA SHALL BE TREATED AS RECONSTRUCTED TO GRADE.

THE ENGINEER SHALL MAKE THE FINAL DETERMINATION OF WHETHER EACH MONUMENT ASSEMBLY IS TO BE RECONSTRUCTED OR ADJUSTED AFTER THE PLACEMENT OF THE FINAL ASPHALT OR CONCRETE PAVEMENT SURFACE. ANY MONUMENT ASSEMBLY THAT DOES NOT HAVE AN EXISTING ADJUSTABLE FRAME AND LID, OR THAT EXHIBITS SUBSTANTIAL DETERIORATION AS DETERMINED BY THE ENGINEER REQUIRING MORE WORK THAN WOULD BE CONSIDERED NORMAL FOR ITEM 623 – MONUMENT ASSEMBLY ADJUSTED TO GRADE SHALL BE RECONSTRUCTED. ANY EXISTING MONUMENT THAT DOES NOT HAVE AN EXISTING SALVAGEABLE MONUMENT ASSEMBLY AROUND THE PIN SHALL BE RECONSTRUCTED USING A NEW MONUMENT BOX AS PER RM-1.1, MAINTAINING THE EXISTING MONUMENTATION LOCATION.

ALL WORK RELATED TO ADJUSTING OR RECONSTRUCTING MONUMENT ASSEMBLIES TO GRADE WILL BE IN ACCORDANCE WITH SPECIFICATIONS 611.10.C AND 623 OF THE ODOT C&MS.

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK IS TO BE PAID USING THE CONTRACT BID PRICE PER EACH FOR ITEM 623 – MONUMENT ASSEMBLY ADJUSTED TO GRADE- AS PER PLAN OR MONUMENT ASSEMBLY RECONSTRUCTED TO GRADE, AS PER PLAN. A LIST OF KNOWN LOCATIONS IS SHOWN BELOW. A TOTAL QUANTITY OF MONUMENT ASSEMBLIES REQUIRING WORK IS CARRIED TO THE GENERAL SUMMARY.

SR 61  
SLM'S: 19.59, 20.29

US 250  
SLMS: 0.73, 0.95, 1.16, 1.38, 1.63, 1.72, 2.49, 2.73, 2.93, 3.47, 3.47, 3.52, 4.49, 4.54, 4.58, 4.65, 4.82, 5.10

ITEM 623 – MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	15 EACH
ITEM 623 – MONUMENT ASSEMBLY RECONSTRUCTED TO GRADE, AS PER PLAN	5 EACH

ITEM 623 SURVEY MONUMENT VERIFICATION

THE CONTRACTOR’S SURVEYOR SHALL OPEN AND OBSERVE ALL MONUMENT ASSEMBLIES AFTER COMPLETION OF ADJUSTMENT/ RECONSTRUCTION WORK WITHIN THE PROJECT LIMITS. OBSERVE THE MONUMENT ASSEMBLIES USING STANDARD ACCEPTABLE SURVEYING MEASUREMENT TECHNIQUES SUITABLE TO MEET THE REQUIREMENTS OF OHIO ADMINISTRATIVE CODE SECTION 4733-37, “STANDARDS FOR BOUNDARY SURVEYS”. A STANDARD MONUMENT VERIFICATION REPORT, IN EXCEL FORMAT, SHALL BE FILED WITH THE ENGINEER AND THE DISTRICT SURVEY OPERATIONS MANAGER UPON COMPLETION. A LINK TO THE STANDARD SURVEY MONUMENT VERIFICATION REPORT IS INCLUDED BELOW:

<https://www.transportation.ohio.gov/working/construction/construction-admin/resources>

SCOTT HAWKINS, P.S.  
ODOT DISTRICT 3 -SURVEY OPERATIONS MANAGER  
SCOTT.HAWKINS@DOT.OHIO.GOV

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK IS TO BE PAID USING THE CONTRACT BID PRICE PER LUMP SUM ITEM 623 – POST CONSTRUCTION SURVEY MONUMENT VERIFICATION REPORT.

ITEM 623 – POST CONSTRUCTION SURVEY MONUMENT VERIFICATION REPORT	1 LUMP SUM
--	------------

ITEM 209 – LINEAR GRADING

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER. IT IS ANTICIPATED THAT THERE ARE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH. THE LINEAR GRADING SHALL BE PERFORMED AFTER THE PAVEMENT PLANING HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING.

ITEM 659 – TOPSOIL, AS PER PLAN

THIS ITEM CONSISTS OF PLACING TOPSOIL AT THE SPECIFIED LOCATIONS IN PLACE OF CURB RAMPS, WALKS, OR OTHER PEDESTRIAN FACILITIES OR PORTIONS OF PEDESTRIAN FACILITIES TO BE REMOVED.

PLACE SCREENED TOPSOIL IN THE VOIDS LEFT BY ANY REMOVED SECTIONS OF PEDESTRIAN FACILITIES TO FINISH FLUSH WITH THE SURROUNDING GROUND AND/OR PROPOSED OR REMAINING PEDESTRIAN FACILITY AND/OR ROADWAY. ALL REQUIREMENTS OF C&MS 659.05 APPLY EXCEPT THAT THE SOIL ANALYSIS TESTS SPECIFIED IN C&MS 659.05 ARE NOT REQUIRED. ODOT RESERVES THE RIGHT TO PERFORM THESE TESTS FOR THE PURPOSES OF ACCEPTANCE. ANY MATERIAL NOT CONFORMING TO THE REQUIREMENTS MUST BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.

AFTER THIS TOPSOIL HAS BEEN PLACED, SEED AND MULCH THE AREAS ACCORDING TO ITEM 659. THE COST FOR THIS SEEDING AND MULCHING IS TO BE CONSIDERED INCIDENTAL TO THIS TOPSOIL, AS PER PLAN ITEM.

THE METHOD OF MEASUREMENT FOR TOPSOIL MATERIAL IS TO BE THE NUMBER OF CUBIC YARDS PLACED AND ACCEPTED. PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT BID PRICE PER CUBIC YARD FOR ITEM 659 – TOPSOIL, AS PER PLAN, WHICH INCLUDES ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK.

ITEM 609 – CURB, TYPE 6, AS PER PLAN

THIS ITEM SHALL BE USED TO REPLACE CURB THAT SERVED AS THE BORDER FOR LANDSCAPE BEDS, BUT IS BEING REMOVED TO FACILITATE THE INSTALLATION OF CURB RAMPS. THE CURB SHALL BE INSTALLED IN LOCATIONS AS SHOWN IN THE PLANS, CONNECTING TO EXISTING CURB THAT REMAINS TO CREATE A NEW LANDSCAPE BORDER TO CONTAIN PLANT MATERIAL.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 609 – CURB, TYPE 6, AS PER PLAN AND SHALL INCLUDE ALL ABOVE LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK AS DIRECTED BY THE ENGINEER.


ITEM 609 – COMBINATION CURB AND GUTTER, TYPE 2

THIS ITEM SHALL BE USED TO PLACE CURB THAT IS INTEGRAL TO NEW SIDEWALK IN ORDER TO FACILITATE A LOWERING OF THE SIDEWALK TO ACHIEVE AN IMPROVED PEDESTRIAN FACILITY, WHILE LIMITING THE EXTENT OF GRADING THAT WOULD BE REQUIRED TO MATCH EXISTING GRADES OR TO REPLACED EXISTING CURB/BARRIER THAT IS DISTURBED BY THE PROPOSED IMPROVEMENTS. THE WIDTH AND HEIGHT OF THE CURB VARIES BASED UPON EXISTING CONDITIONS TO BE MATCHED AND SHALL BE INSTALLED AS SHOWN IN THE PLANS. THE ITEM SHALL INCLUDE CONNECTING TO EXISTING FEATURES OR IF TRANSITIONING TO MATCH THE SIDEWALK ELEVATION, THE CURB SHALL BE TRANSITIONED FROM 6 INCHES OF HEIGHT TO 0 INCHES IN 1 FOOT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 609 – COMBINATION CURB AND GUTTER, TYPE 2 AND SHALL INCLUDE ALL ABOVE LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK AS DIRECTED BY THE ENGINEER.

DESIGN AGENCY

DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER

ERC

REVIEWER

KRB 12/23/24

PROJECT ID

107782

SHEET

P.009

TOTAL

147



PAVEMENT

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442)

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE. PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF THE SURFACE COURSE. THE DEPTH OF REMOVAL SHALL BE AS DIRECTED BY THE ENGINEER WITH A MAXIMUM DEPTH OF 4". THE MINIMUM WIDTH OF REPAIR SHALL BE 4FT.

REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES, ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR IS TO BE A MAXIMUM OF 4" DEEP. THE FOLLOWING ITEMS AND QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ROUTE: 61C	PLAN SPLIT: 03/S5K/05	QUANTITY: 108 CY
61	03/S5K/05	494 CY
250	01/S<2/05	101 CY
250	03/S5K/05	552 CY

ITEM 253 - PAVEMENT REPAIR

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF THE SURFACE COURSE. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 10" AND A MINIMUM WIDTH OF 4FT. FOR FULL DEPTH REPAIRS WHERE CONCRETE IS UNDERLYING ASPHALT BUT CONCRETE IS NOT BEING REPLACED AS PART OF THE REPAIR, REMOVE ALL ASPHALT TO THE TOP OF CONCRETE THEN COMPLETE FLEXIBLE REPAIR ON TOP OF EXISTING CONCRETE.

REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE AND MAY BE PLACED IN MULTIPLE LIFTS IF NECESSARY, AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES, ITEM 253 PAVEMENT REPAIR IS TO BE A MAXIMUM OF 10" DEEP. THE FOLLOWING ITEMS AND QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ROUTE: 61C	PLAN SPLIT: 03/S5K/05	QUANTITY: 11 CY
61	03/S5K/05	49 CY
250	01/S<2/05	10 CY
250	03/S5K/05	55 CY

PAVEMENT REPAIR (GENERAL AWARENESS)

PREVIOUS PLANS AND EXPERIENCE IN THE AREA INDICATE THAT BURIED STREETCAR TRACKS MAY EXIST UNDER THE EXISTING SURFACE ON STATE ROUTE 61. THE EXACT LOCATION AND DEPTH OF THESE TRACKS HAS NOT BEEN ABLE TO BE VERIFIED BY CONVENTIONAL AND REASONABLE METHODS. IF THESE TRACKS ARE EXPOSED AND ARE ANTICIPATED TO DETRIMENTALLY EFFECT THE QUALITY OF THE PROPOSED PAVEMENT, IMMEDIATELY CEASE PAVEMENT OPERATIONS IN THE AFFECTED AREA AND CONTACT THE DISTRICT THREE PAVEMENT ENGINEER, MARK STROHM, PE, AT [MARK.STROHM@DOT.OHIO.GOV](mailto:MARK.STROHM@DOT.OHIO.GOV) OR 419-207-7177. PROCEED AFTER RECEIVING FEEDBACK FROM THE PAVEMENT ENGINEER, COMPLYING WITH ANY REQUESTS. ANY CHANGES NEEDED TO THE PAVEMENT TREATMENT AS A RESULT OF THESE FINDINGS AND RECOMMENDATIONS WILL BE INCLUDED IN THE PROJECT VIA OWNER REQUESTED CHANGE ORDER ENCOMPASSING THE APPROPRIATE ITEMS.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PREVIOUS CONSTRUCTION PLANS SHOWING THE ORIGINAL ALIGNMENT AND PROFILE, ARE AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 3 OFFICE. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

ITEM 254 - PATCHING PLANED SURFACE

AN ESTIMATED QUANTITY OF ITEM 254 - PATCHING PLANED SURFACE HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER AS DESCRIBED IN CMS 254.04. THE LIMIT OF THE PATCHING DEPTH IS 0 TO 2 IN.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PATCHING PLANED SURFACE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 – PATCHING PLANED SURFACE.

ROUTE 61C	PLAN SPLIT 02/S<2/05	QUANTITY: 113 SY
61	02/S<2/05	283 SY
250	01/S<2/05	104 SY
250	02/S<2/05	372 SY

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (UNCURBED SECTIONS)

THE INTENT OF THE PLANING IS TO MILL THE SPECIFIED DEPTH AT THE CENTER OF PAVEMENT AT NON-CURBED AREAS. THE PAVEMENT SLOPE SHALL BE 0.010 MINIMUM AND 0.016 PREFERRED, CONTINUOUS BETWEEN THE CROWN AND THE PROPOSED EDGELINE/SHOULDER. THE MILLING DEPTH SHALL BE CONTROLLED FROM THE CENTER OF PAVEMENT IN CONFORMANCE WITH THE ABOVE GUIDELINES.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING SUPERELEVATION.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE MORE THAN SEVEN (7) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 7 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF \$3500 PER DAY.

AS PART OF THIS ITEM, DELIVER ALL OF THE REMOVED MILLINGS TO THE CITY OF NORWALK. COORDINATE THIS DELIVERY, AS TO THE TIME AND PLACE, WITH THE CITY OF NORWALK. MILLINGS SHOULD BE DELIVERED TO THE CITY OF NORWALK GENERAL SERVICES DEPARTMENT AT 42 WOODLAWN AVE. CONTACT THE CITY PUBLIC WORKS DIRECTOR, AARON OSBORN, AT [PUBLICWORKSDIRECTOR@NORWALKOH.COM](mailto:PUBLICWORKSDIRECTOR@NORWALKOH.COM).

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (CURBED SECTION)

THE INTENT OF THE PLANING IS TO MILL THE SPECIFIED DEPTH ALONG THE CURB CONTINGENT ON THE FOLLOWING: THE MAXIMUM CROSS SLOPE SHALL BE 0.02 WHILE THE MINIMUM CROSS SLOPE SHALL BE 0.01. THE PREFERRED CROSS SLOPE IS 0.016. THE CROWN OF THE PAVEMENT SHALL BE LOCATED BETWEEN THE TRAVELED LANES, OR AS DIRECTED BY THE ENGINEER. THE MILLING DEPTH SHALL BE CONTROLLED FROM THE CURB, TO PRODUCE A CROSS SLOPE IN CONFORMANCE WITH THE ABOVE GUIDELINES.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING SUPERELEVATION.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE MORE THAN FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF \$3500.

AS PART OF THIS ITEM, DELIVER ALL OF THE REMOVED MILLINGS TO THE CITY OF NORWALK. COORDINATE THIS DELIVERY, AS TO THE TIME AND PLACE, WITH THE CITY OF NORWALK. MILLINGS SHOULD BE DELIVERED TO THE CITY OF NORWALK GENERAL SERVICES DEPARTMENT AT 42 WOODLAWN AVE. CONTACT THE CITY PUBLIC WORKS DIRECTOR, AARON OSBORN, AT [PUBLICWORKSDIRECTOR@NORWALKOH.COM](mailto:PUBLICWORKSDIRECTOR@NORWALKOH.COM).

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE.

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE CONTRACTOR SHALL APPLY THE PRIME COAT TO THE AGGREGATE SHOULDER WITHIN 7 (SEVEN) CALENDAR DAYS OF THE INSTALLATION OF ITEM 617 ON THE SHOULDER. PRIOR TO APPLYING THE PRIME COAT LAYER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CORRECT ANY DAMAGES TO AGGREGATE SHOULDER THAT HAS OCCURRED DURING THE PERIOD OF TIME BETWEEN THE PLACEMENT OF THE BERM MATERIAL AND THE INSTALLATION OF PRIME COAT. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN


ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:  
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS.  
CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%.  
MINIMUM TOTAL PG BINDER CONTENT IS 6.3 PERCENT.  
MINIMUM VIRGIN PG BINDER CONTENT IS 5.2 PERCENT.  
USE A PG 64-22 BINDER.  
WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE PAVEMENT FRICTION IN SURFACE PAVEMENT.

DESIGN AGENCY

DISTRICT 3



ENGINEERING TEAM ONE

DESIGNER

ERC

REVIEWER

KRB 12/23/24

PROJECT ID

107782

SHEET

P.013

TOTAL

147




HUR-250/61-0.75/VAR

MODEL: GS1 PAPER SIZE: 34x22 (in.) DATE: 2/6/2025 TIME: 1:52:07 PM USER: ecaudill  
pwc:\ohio\doi-pw-bentley.com\ohio\doi-pw-02\Documents\01 Active Projects\District 03\Huron\107782\400-Engineering\Roadway\Sheets\107782\_GG001.dgn

SHEET NUMBER									PART.					ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	12	13	16	18	19	26	27	56	01/S<2/05	02/S<2/05	03/S5K/05	04/S5K/13	05/ENH/28						
																		ROADWAY	
								21,492					21,492	202	30000	21,492	SF	WALK REMOVED	
								1,975					1,975	202	32000	1,975	FT	CURB REMOVED	
								1,276					1,276	202	32500	1,276	FT	CURB AND GUTTER REMOVED	
							1,031.25		312.5		718.75			202	38000	1,031.25	FT	GUARDRAIL REMOVED	
							4				4			202	38700	4	EACH	GUARDRAIL POST REMOVED	
							3		1		2			202	42000	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
							7		2		5			202	42010	7	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
							3				3			202	42040	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
							2				2			202	42050	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE B	
							5				5			202	47000	5	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
							91.5				91.5			203	20001	91.5	CY	EMBANKMENT, AS PER PLAN(GUARDRAIL)	11
						3.5	6		0.88		5.12			209	15001	6	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN	11
									0.32	3.18				209	60500	3.5	MILE	LINEAR GRADING	
							168.75		62.5		106.25			606	13000	168.75	FT	GUARDRAIL, TYPE 5	
							1,075		237.5		837.5			606	15050	1,075	FT	GUARDRAIL, TYPE MGS	
							12.5		12.5					606	16500	12.5	FT	GUARDRAIL REBUILT, TYPE 5	
							300		87.5		212.5			606	17000	300	FT	RAISING TYPE 5 GUARDRAIL	
							5		2		3			606	17700	5	EACH	REPLACE EXISTING GUARDRAIL BLOCKOUT	
							6				6			606	17900	6	EACH	GUARDRAIL POST	
							3		1		2			606	26100	3	EACH	ANCHOR ASSEMBLY, TYPE E	
							4		1		3			606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	
							2				2			606	26500	2	EACH	ANCHOR ASSEMBLY, TYPE T	
							6		1		5			606	26550	6	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
							1		1					606	27850	1	EACH	ANCHOR ASSEMBLY REBUILT, TYPE E	
							3		3					606	27900	3	EACH	ANCHOR ASSEMBLY REBUILT, TYPE T	
							1				1			606	35002	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
							1				1			606	35100	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2	
							1				1			606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
							2				2			606	35140	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
								8,462					8,462	608	10000	8,462	SF	4" CONCRETE WALK	
								16,368					16,368	608	52000	16,368	SF	CURB RAMP	
15										15				623	39501	15	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	9
5										5				623	39601	5	EACH	MONUMENT ASSEMBLY RECONSTRUCTED TO GRADE, AS PER PLAN	9
LS										LS				623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
							13		2		11			626	00110	13	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
																		EROSION CONTROL	
								37					37	659	00301	37	CY	TOPSOIL, AS PER PLAN(CURB RAMPS)	9
									150	850				832	30000	1,000	EACH	EROSION CONTROL	
																		DRAINAGE	
	203								13	190				611	98630	203	EACH	CATCH BASIN ADJUSTED TO GRADE	
	223									223				611	99654	223	EACH	MANHOLE ADJUSTED TO GRADE	
	22								1		21			611	98635	22	EACH	CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN	12
	1,500									1,500				SPECIAL	61199820	1,500	LB	MISCELLANEOUS METAL	12

GENERAL SUMMARY

DESIGN AGENCY  
DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER  
ERC

REVIEWER  
KRB 12/23/24

PROJECT ID  
107782

SHEET  
P.020


TOTAL  
147



SHEET NUMBER									PART.					ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
12	13	16	18	19	26	27	56	139	01/S<2/05	02/S<2/05	03/S5K/05	04/S5K/13	05/ENH/28						
																		PAVEMENT	
	1,255								101		1,154			251	01030	1,255	CY	PARTIAL DEPTH PAVEMENT REPAIR (442)	
							32						32	252	01500	32	FT	FULL DEPTH PAVEMENT SAWING	
	125								10		115			253	02000	125	CY	PAVEMENT REPAIR	
	872				192,980				20,876	172,104				254	01000	192,980	SY	PAVEMENT PLANING, ASPHALT CONCRETE(1.50")	
									104	768				254	01600	872	SY	PATCHING PLANED SURFACE	
					17,368				1,879	15,489				407	20000	17,368	GAL	NON-TRACKING TACK COAT(0.09 GAL/SY)	
					1,643				150	1,493				408	10001	1,643	GAL	PRIME COAT, AS PER PLAN	13
					7,827				656	7,171				442	00201	7,827	CY	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM. TYPE A (446), AS PER PLAN(PG64-22)	13
					214				214					442	10000	214	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM. TYPE A (446)(PG76-22)	
							376						376	609	12000	376	FT	COMBINATION CURB AND GUTTER, TYPE 2	
							275						275	609	14001	275	FT	CURB, TYPE 2-A, AS PER PLAN	9
							514						514	609	26000	514	FT	CURB, TYPE 6	
							192						192	609	26001	192	FT	CURB, TYPE 6, AS PER PLAN	9
					229				21	208				617	10100	229	CY	COMPACTED AGGREGATE(2.0" AVERAGE)	
130									1	129				638	10800	130	EACH	WATER WORK	
																		TRAFFIC CONTROL	
							5						5	630	79500	5	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
							5						5	630	80100	5	SF	SIGN, FLAT SHEET	
							4						4	630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
							1						1	630	86002	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								0.6	0.6					642	00104	0.6	MILE	EDGE LINE, 6", TYPE 1(WHITE)	
									1.02	1.02				642	00300	1.02	MILE	CENTER LINE, TYPE 1	
									1,617	1,617				644	00400	1,617	FT	CHANNELIZING LINE, 8"	
									352	352				644	00500	352	FT	STOP LINE	
									1,463	1,463				644	00700	1,463	FT	TRANSVERSE/DIAGONAL LINE	
									16	16				644	01300	16	EACH	LANE ARROW	
									0.18	0.1	0.08			646	10010	0.18	MILE	EDGE LINE, 6" (WHITE)	
									0.08		0.08			646	10010	0.08	MILE	EDGE LINE, 6" (YELLOW)	
									0.13	0.05	0.08			646	10200	0.13	MILE	CENTER LINE	

GENERAL SUMMARY

DESIGN AGENCY  
DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER  
ERC

REVIEWER  
KRB 12/23/24

PROJECT ID  
107782

SHEET  
P.021

TOTAL  
147



SHEET NUMBER									PART.					ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
16	18	19	26	27	56	139	141	147	01/S<2/05	02/S<2/05	03/S5K/05	04/S5K/13	05/ENH/28	(X)		EXT	TOTAL			
																			TRAFFIC CONTROL ALTERNATES	
						2.28				2.28				X	642	00104	2.28	MILE	EDGE LINE, 6", TYPE 1(WHITE) (ALTERNATIVE 1)	
						1.58				1.58				X	642	00104	1.58	MILE	EDGE LINE, 6", TYPE 1(YELLOW) (ALTERNATIVE 1)	
						7.91				7.91				X	642	00300	7.91	MILE	CENTER LINE, TYPE 1 (ALTERNATIVE 1)	
						8,171				8,171				X	642	00400	8,171	FT	CHANNELIZING LINE, 8", TYPE 1 (ALTERNATIVE 1)	
						1,510				1,510				X	642	00500	1,510	FT	STOP LINE, TYPE 1 (ALTERNATIVE 1)	
						2,221				2,221				X	642	00630	2,221	FT	CROSSWALK LINE, 24", TYPE 1 (ALTERNATIVE 1)	
						667				667				X	642	00631	667	FT	CROSSWALK LINE, 24", TYPE 1, AS PER PLAN (ALTERNATIVE 1)	9
						1,006				1,006				X	642	00700	1,006	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1 (ALTERNATIVE 1)	
						2				2				X	642	01000	2	EACH	RAILROAD SYMBOL MARKING, TYPE 1 (ALTERNATIVE 1)	
						4				4				X	642	01100	4	EACH	SCHOOL SYMBOL MARKING, 72", TYPE 1 (ALTERNATIVE 1)	
						3,010				3,010				X	642	01200	3,010	FT	PARKING LOT STALL MARKING, TYPE 1 (ALTERNATIVE 1)	
						200				200				X	642	01300	200	EACH	LANE ARROW, TYPE 1 (ALTERNATIVE 1)	
						4				4				X	642	50010	4	EACH	PAVEMENT MARKING, MISC.:(HANDICAP PARKING STALL) (ALTERNATIVE 1)	14
						2.28				2.28				X	644	00104	2.28	MILE	EDGE LINE, 6"(WHITE) (ALTERNATIVE 2)	
						1.58				1.58				X	644	00104	1.58	MILE	EDGE LINE, 6"(YELLOW) (ALTERNATIVE 2)	
						7.91				7.91				X	644	00300	7.91	MILE	CENTER LINE (ALTERNATIVE 2)	
						8,171				8,171				X	644	00400	8,171	FT	CHANNELIZING LINE, 8" (ALTERNATIVE 2)	
						1,510				1,510				X	644	00500	1,510	FT	STOP LINE (ALTERNATIVE 2)	
						2,221				2,221				X	644	00630	2,221	FT	CROSSWALK LINE, 24" (ALTERNATIVE 2)	
						667				667				X	644	00631	667	FT	CROSSWALK LINE, 24", AS PER PLAN (ALTERNATIVE 2)	9
						1,006				1,006				X	644	00700	1,006	FT	TRANSVERSE/DIAGONAL LINE (ALTERNATIVE 2)	
						2				2				X	644	01000	2	EACH	RAILROAD SYMBOL MARKING (ALTERNATIVE 2)	
						4				4				X	644	01100	4	EACH	SCHOOL SYMBOL MARKING, 72" (ALTERNATIVE 2)	
						3,010				3,010				X	644	01200	3,010	FT	PARKING LOT STALL MARKING (ALTERNATIVE 2)	
						200				200				X	644	01300	200	EACH	LANE ARROW (ALTERNATIVE 2)	
						4				4				X	644	50100	4	EACH	PAVEMENT MARKING, MISC.:(HANDICAP PARKING STALL) (ALTERNATIVE 2)	14
																			TRAFFIC SIGNALS	
					2								2		632	20730	2	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	
45					2								2		632	20750	2	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON	
										45					632	26501	45	EACH	DETECTOR LOOP, AS PER PLAN	16
					10								10		632	64021	10	EACH	PEDESTAL FOUNDATION, AS PER PLAN	15
					8								8		632	90203	8	EACH	REUSE OF PEDESTRIAN SIGNAL HEAD, AS PER PLAN	15
																			STRUCTURE REPAIR (SFN: 3902048)	
							13					13			202	11301	13	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	141
							169					169			202	98200	169	FT	REMOVAL MISC.:JOINT SEALER	141
							4					4			203	10001	4	CY	EXCAVATION, AS PER PLAN	141
							33					33			509	10001	33	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	141
							10					10			511	34444	10	CY	CLASS QC2 CONCRETE, BRIDGE DECK	
							15					15			512	10300	15	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
							12					12			513	21001	12	EACH	TRIMMING OF BEAM END, AS PER PLAN	141
							169					169			516	31000	169	FT	JOINT SEALER	
							LS					LS			516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	141
							4					4			659	00301	4	CY	TOPSOIL, AS PER PLAN	141
							20					20			659	10000	20	SY	SEEDING AND MULCHING	
							1					1			659	14000	1	SY	REPAIR SEEDING AND MULCHING	
							1					1			659	15000	1	SY	INTER-SEEDING	
							0.01					0.01			659	20000	0.01	TON	COMMERCIAL FERTILIZER	
							0.01					0.01			659	31000	0.01	ACRE	LIME	
							0.11					0.11			659	35000	0.11	MGAL	WATER	
							125					125			848	10200	125	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1.75" THICK	
							125					125			848	20000	125	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
							2					2			848	30200	2	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
							19					19			848	50000	19	SY	HAND CHIPPING	
							LS					LS			848	50100	LS		TEST SLAB	
							6					6			848	50200	6	CY	FULL-DEPTH REPAIR	

GENERAL SUMMARY

DESIGN AGENCY  
DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER  
ERC

REVIEWER  
KRB 12/23/24


PROJECT ID  
107782

SHEET  
P.022

TOTAL  
147



MODEL: GS4 PAPER SIZE: 34x22 (in.) DATE: 2/6/2025 TIME: 1:52:09 PM USER: ecaudill  
pw:\vhofidat-pw\_bentley.com\chidot-pw-02\Documents\01 Active Projects\District 03\Huron\107782-400-Engineering\Roadway\Sheets\107782\_GG001.dgn

GENERAL SUMMARY	
DESIGN AGENCY DISTRICT 3  ENGINEERING TEAM ONE	
DESIGNER ERC	
REVIEWER KRB 01/07/25	
PROJECT ID 107782	
SHEET P.023	TOTAL 147



PLAN SPLIT	COUNTY	ROUTE	LOG POINT TO LOG POINT		LENGTH		AVERAGE WIDTH	TYPICAL SECTION NUMBER (SEE TYP SECTION SHEETS)			PAVEMENT AREA	254		407		442		442		209		617		408	
					MILE	FEET						PAVEMENT PLANING, ASPHALT CONCRETE (1.50")	NON-TRACKING TACK COAT (0.09 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN (PG64-22)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), (P76- 22)										
			LEFT EDGE CONDITION	MAINLINE TYPICAL				RIGHT EDGE CONDITION	SQ YD	DEPTH (IN)						SQ YD	GAL/SY	GAL	DEPTH (IN)	CY					
																					STRAIGHT LINE MILEAGE	FT	LEFT	RIGHT	LEFT
01/S<2/05	HUR	250	0.75	0.77	0.02	105.6	40	LEFT 3	TYPICAL 2	RIGHT 3	470	1.50	470	0.09	42.3	1.50	20								
02/S<2/05	HUR	250	0.77	0.86	0.09	475.2	40	LEFT 3	TYPICAL 2	RIGHT 3	2,112	1.50	2,112	0.09	190.08	1.50	88								
01/S<2/05	HUR	250	0.86	1.20	0.34	1795.2	42	LEFT 3	TYPICAL 2	RIGHT 3	8,378	1.50	8,378	0.09	754.02	1.50	349								
02/S<2/05	HUR	250	1.20	1.23	0.03	158.4	38	LEFT 3	TYPICAL 2	RIGHT 3	669	1.50	669	0.09	60.21	1.50	28								
02/S<2/05	HUR	250	1.23	1.26	0.03	158.4	38	LEFT 3	TYPICAL 3	RIGHT 3	669	1.50	669	0.09	60.21	1.50	28								
01/S<2/05	HUR	250	1.26	1.29	0.03	158.4	54	LEFT 3	TYPICAL 3	RIGHT 3	951	1.50	951	0.09	85.59	1.50	40								
02/S<2/05	HUR	250	1.29	1.51	0.22	1161.6	54	LEFT 3	TYPICAL 3	RIGHT 3	6,970	1.50	6,970	0.09	627.3	1.50	290								
02/S<2/05	HUR	250	1.51	1.89	0.38	2006.4	40	LEFT 3	TYPICAL 2	RIGHT 3	8,918	1.50	8,918	0.09	802.62	1.50	372								
02/S<2/05	HUR	250	1.89	1.95	0.06	316.8	50	LEFT 3	TYPICAL 3	RIGHT 3	1,760	1.50	1,760	0.09	158.4	1.50	73								
02/S<2/05	HUR	250	1.95	2.05	0.10	528	38	LEFT 3	TYPICAL 2	RIGHT 3	2,230	1.50	2,230	0.09	200.7	1.50	93								
02/S<2/05	HUR	250	2.05	2.47	0.42	2217.6	36	LEFT 2	TYPICAL 2	RIGHT 2	8,871	1.50	8,871	0.09	798.39	1.50	370								
02/S<2/05	HUR	250	2.47	2.91	0.44	2323.2	40	LEFT 3	TYPICAL 2	RIGHT 3	10,326	1.50	10,326	0.09	929.34	1.50	430								
02/S<2/05	HUR	250	2.91	2.99	0.08	422.4	54	LEFT 3	TYPICAL 3	RIGHT 3	2,535	1.50	2,535	0.09	228.15	1.50	106								
02/S<2/05	HUR	250	2.99	3.18	0.19	1003.2	40	LEFT 3	TYPICAL 2	RIGHT 3	4,459	1.50	4,459	0.09	401.31	1.50	186								
02/S<2/05	HUR	250	3.18	3.25	0.07	369.6	40	LEFT 3*	TYPICAL 2	RIGHT 3	1,643	1.50	1,643	0.09	147.87	1.50	68								
02/S<2/05	HUR	250	3.25	3.32	0.07	369.6	40	LEFT 3	TYPICAL 2	RIGHT 3*	1,643	1.50	1,643	0.09	147.87	1.50	68								
02/S<2/05	HUR	250	3.32	3.43	0.11	580.8	40	LEFT 3*	TYPICAL 2	RIGHT 3	2,582	1.50	2,582	0.09	232.38	1.50	108								
02/S<2/05	HUR	250	3.43	3.53	0.10	528	36	LEFT 3	TYPICAL 2	RIGHT 3	2,112	1.50	2,112	0.09	190.08	1.50	88								
02/S<2/05	HUR	250	3.53	3.57	0.04	211.2	36	LEFT 3	TYPICAL 1	RIGHT 3	845	1.50	845	0.09	76.05	1.50	35								
02/S<2/05	HUR	250	3.57	3.64	0.07	369.6	30	LEFT 2	TYPICAL 1	RIGHT 2	1,233	1.50	1,233	0.09	110.97	1.50	51								
02/S<2/05	HUR	250	3.64	3.78	0.14	739.2	36	LEFT 3	TYPICAL 2	RIGHT 3	2,957	1.50	2,957	0.09	266.13	1.50	123								
02/S<2/05	HUR	250	3.78	4.39	0.61	3220.8	28	LEFT 2	TYPICAL 1	RIGHT 2	10,021	1.50	10,021	0.09	901.89	1.50	418								
02/S<2/05	HUR	250	4.39	4.48	0.09	475.2	42	LEFT 2	TYPICAL 2	RIGHT 2	2,218	1.50	2,218	0.09	199.62	1.50	92								
02/S<2/05	HUR	250	4.48	4.73	0.25	1320	46	LEFT 2	TYPICAL 3	RIGHT 2	6,747	1.50	6,747	0.09	607.23	1.50	281								
02/S<2/05	HUR	250	4.73	4.77	0.04	211.2	46	LEFT 1	TYPICAL 3	RIGHT 1	1,080	1.50	1,080	0.09	97.2	1.50	45			0.04	0.04	2.6	2.6	19	19
01/S<2/05	HUR	250	4.77	4.83	0.06	316.8	64	LEFT 1	TYPICAL 3	RIGHT 1	2,253	1.50	2,253	0.09	202.77			1.5	94	0.06	0.06	3.9	3.9	28	28
01/S<2/05	HUR	250	4.83	4.90	0.07	369.6	70	LEFT 1	TYPICAL 2	RIGHT 1	2,875	1.50	2,875	0.09	258.75			1.5	120	0.07	0.07	4.6	4.6	33	33
	HUR	250	4.90	4.95	0.05	264	SUSPEND FOR SFN: 3901149																		
01/S<2/05	HUR	250	4.95	5.07	0.12	633.6	70				4,928	1.50	4,928	0.09	443.52	1.50	205								
01/S<2/05	HUR	250	5.07	5.10	0.03	158.4	58	LEFT 1	TYPICAL 2	RIGHT 1	1,021	1.50	1,021	0.09	91.89	1.50	43			0.03	0.03	2.0	2.0	14	14
			EXTRA QUANTITIES																						
02/S<2/05	HUR	250	EXTRA QUANTITY FOR ASPHALT PAVED DRIVES								198	1.50	198	0.09	17.82	1.50	8								
02/S<2/05	HUR	250	EXTRA QUANTITY FOR INTERSECTIONS								4,799	1.50	4,799	0.09	431.91	1.50	200								
ROUTE SUBSUMMARY																									
	HUR	US 250									108,473		9,763		4,306	214		0.40		26		188			

QUANTITIES CARRIED TO PAVEMENT AND SHOULDER DATA SUBSUMMARY

PAVEMENT AND SHOULDER DATA  
US 250

DESIGN AGENCY  
DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER

ERC

REVIEWER

KRB 12/23/24

PROJECT ID

107782

SHEET

P.024

TOTAL

147



PLAN SPLIT	COUNTY	ROUTE	LOG POINT TO LOG POINT		LENGTH		AVERAGE WIDTH	TYPICAL SECTION NUMBER (SEE TYP SECTION SHEETS)			PAVEMENT AREA	254		407		442		209		617		408		
					MILE	FEET						PAVEMENT PLANING, ASPHALT CONCRETE (1.50")		NON-TRACKING TACK COAT (0.09 GAL/SY)		ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN (PG64-22)								
			LEFT EDGE CONDITION	MAINLINE TYPICAL				RIGHT EDGE CONDITION	SQ YD	DEPTH (IN)								SQ YD	GAL/SY	GAL	DEPTH (IN)	CY		
												LEFT MILE	RIGHT MILE	LEFT CU YD	RIGHT CU YD	LEFT GALLONS	RIGHT GALLONS							
02/S<2/05	HUR	61C EB	0.05	0.50	0.45	2376	36	LEFT 1	TYPICAL 1	RIGHT 1	9,504	1.50	9,504	0.09	855.36	1.50	396	0.45	0.45	29.3	29.3	211	211	
02/S<2/05	HUR	61C EB	0.50	0.59	0.09	475.2	36	LEFT 2	TYPICAL 1	RIGHT 1	1,901	1.50	1,901	0.09	171.09	1.50	79		0.09		5.9		42	
02/S<2/05	HUR	61C WB	0.02	0.48	0.46	2428.8	26	LEFT 1	TYPICAL 4	RIGHT 1	7,017	1.50	7,017	0.09	631.53	1.50	292	0.46	0.46	30.0	30.0	216	216	
02/S<2/05	HUR	61C WB	0.48	0.59	0.11	580.8	32	LEFT 1	TYPICAL 1	RIGHT 2	2,066	1.50	2,066	0.09	185.94	1.50	86	0.11		7.2		52		
	HUR	61C	0.59	0.61	0.02	105.6		SUSPEND FOR SFN: 3902250																
02/S<2/05	HUR	61C	0.61	0.71	0.10	528	64	LEFT 1	TYPICAL 3	RIGHT 1	3,755	1.50	3,755	0.09	337.95	1.50	156	0.10	0.10	6.5	6.5	47	47	
02/S<2/05	HUR	61	16.98	17.15	0.17	897.6	26	LEFT 1	TYPICAL 1	RIGHT 1	2,594	1.50	2,594	0.09	233.46	1.50	108	0.17	0.17	11.1	11.1	80	80	
02/S<2/05	HUR	61	17.15	17.25	0.10	528	64	LEFT 1	TYPICAL 3	RIGHT 1	3,755	1.50	3,755	0.09	337.95	1.50	156	0.10	0.10	6.5	6.5	47	47	
02/S<2/05	HUR	61	17.25	17.35	0.10	528	64	LEFT 1	TYPICAL 2	RIGHT 1	3,755	1.50	3,755	0.09	337.95	1.50	156	0.10	0.10	6.5	6.5	47	47	
02/S<2/05	HUR	61	17.35	18.50	1.15	6072		SUSPEND WORK FOR LPA JOBS			0	1.50	0	0.09	0	1.50	0							
02/S<2/05	HUR	61	18.50	18.56	0.06	316.8	36	LEFT 2	TYPICAL 2	RIGHT 2	1,268	1.50	1,268	0.09	114.12	1.50	53							
	HUR	61	18.56	18.57				SUSPEND FOR SFN: 3902048																
02/S<2/05	HUR	61	18.57	18.78	0.21	1108.8	68	LEFT 2*	TYPICAL 2	RIGHT 2*	8,378	1.50	8,378	0.09	754.02	1.50	349							
02/S<2/05	HUR	61	18.78	18.80	0.02	105.6		QUANTITY INCLUDED WITH US 250			0	1.50	0	0.09	0	1.50	0							
02/S<2/05	HUR	61	18.80	19.12	0.32	1689.6	68	LEFT 2*	TYPICAL 1	RIGHT 2*	12,766	1.50	12,766	0.09	1148.94	1.50	532							
02/S<2/05	HUR	61	19.12	19.21	0.09	475.2	42	LEFT 2*	TYPICAL 1	RIGHT 2	2,218	1.50	2,218	0.09	199.62	1.50	92							
02/S<2/05	HUR	61	19.21	19.40	0.19	1003.2	40	LEFT 2*	TYPICAL 1	RIGHT 2*	4,459	1.50	4,459	0.09	401.31	1.50	186							
02/S<2/05	HUR	61	19.40	19.54	0.14	739.2	36	LEFT 2	TYPICAL 1	RIGHT 2	2,957	1.50	2,957	0.09	266.13	1.50	123							
	HUR	61	19.54	19.55	0.01	52.8		SUSPEND FOR SFN: 3902072																
02/S<2/05	HUR	61	19.55	19.59	0.04	211.2	36	LEFT 2	TYPICAL 1	RIGHT 2	845	1.50	845	0.09	76.05	1.50	35							
02/S<2/05	HUR	61	19.59	20.27	0.68	3590.4	30	LEFT 2*	TYPICAL 1	RIGHT 2	11,968	1.50	11,968	0.09	1077.12	1.50	499							
02/S<2/05	HUR	61	20.27	20.31	0.04	211.2	30	LEFT 2	TYPICAL 1	RIGHT 2	704	1.50	704	0.09	63.36	1.50	29							
02/S<2/05	HUR	61	20.31	20.38	0.07	369.6	28	LEFT 1	TYPICAL 1	RIGHT 1	1,150	1.50	1,150	0.09	103.5	1.50	48	0.07	0.07	4.6	4.6	33	33	
	EXTRA QUANTITIES																							
02/S<2/05	HUR	61	EXTRA QUANTITY FOR ASPHALT PAVED DRIVES								225	1.50	225	0.09	20.25	1.50	9							
02/S<2/05	HUR	61	EXTRA QUANTITY FOR INTERSECTIONS								3,222	1.50	3,222	0.09	289.98	1.50	134							
ROUTE SUBSUMMARY													84,507		7,606		3,521		3.10		202		1455	

QUANTITIES CARRIED TO PAVEMENT AND SHOULDER DATA SUBSUMMARY

PAVEMENT AND SHOULDER DATA  
SR 61

DESIGN AGENCY  
DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER  
ERC

REVIEWER  
KRB 12/23/24

PROJECT ID  
107782

SHEET TOTAL  
P.025 147




PLAN SPLIT	COUNTY	ROUTE	LOG POINT TO LOG POINT	LENGTH		AVERAGE WIDTH	TYPICAL SECTION NUMBER (SEE TYP SECTION SHEETS)			PAVEMENT AREA	254		407		442		442		209		617		408							
				MILE	FEET		LEFT EDGE CONDITION	MAINLINE TYPICAL	RIGHT EDGE CONDITION		PAVEMENT PLANING, ASPHALT CONCRETE (1.50")	NON-TRACKING TACK COAT (0.09 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN (PG64-22)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), (P76-22)	LINEAR GRADING	COMPACTED AGGREGATE (2.0" AVERAGE)		PRIME COAT, AS PER PLAN												
			STRAIGHT LINE MILEAGE													SQ YD	DEPTH (IN)	SQ YD	GAL/SY	GAL	DEPTH (IN)	CY	DEPTH (IN)	CY	LEFT MILE	RIGHT MILE	LEFT CU YD	RIGHT CU YD	LEFT GALLONS	RIGHT GALLONS
			PLAN SPLIT SUBTOTALS																											
01/S<2/05											20,876		1,879		656	214		0.32		21		150								
02/S<2/05											172,104		15,489		7,171	0		3.18		208		1,493								
TOTALS CARRIED TO GENERAL SUMMARY:											192,980		17,368		7,827	214		3.50		229		1,643								



LOCATION			SUBSET SHEET NUMBER	WAIVER REQUESTED	WALK REMOVED	202		CURB AND GUTTER REMOVED	659		FULL DEPTH PAVEMENT SAWING	608		609		630		632																								
INTERSECTION	LOCATION CODE	DESCRIPTOR				SF	FT		FT	AREA (SF)		CY	FT	SF	SF	FT	FT	COMBINATION CURB AND GUTTER, TYPE 2	CURB, TYPE 2-A, AS PER PLAN	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED SIGN SUPPORT AND DISPOSAL	SIGN. FLAT SHEET	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	ACCESSIBLE PEDESTRIAN PUSHBUTTON	REUSE OF PEDESTRIAN SIGNAL HEAD, AS PER PLAN	PEDESTAL FOUNDATION, AS PER PLAN															
* - WHEN IN THE WAIVER COLUMN, MEANS TO SEE GENERAL NOTES OR PLAN SHEET FOR RAMP ID NUMBER (ALTERATION WAIVER)																																										
SYCAMORE DRIVE	A1	NW	13	NO	96.93	11.03		13.19	0.25		68.99	32.00	2.86																													
	A2	NE		NO	117.82	21.47	19.18	17.68	0.33		125.62	25.00			5.05																											
	A3	NE		YES*	CANNOT IMPROVE DUE TO DRIVEWAY																																					
	A4	SE		YES*	NO WORK DUE TO RIGHT-OF-WAY																																					
WEST STREET	B1	NW	14	NO	SEE PID 111400, 118964, 120948, OR 123420 FOR DETAILS ON WORK TO BE COMPLETED AT THIS LOCATION																																					
	B2	NW		NO																																						
	B3	NE		NO																																						
	B4	NE		NO																																						
	B5	SE		NO																																						
	B6	SE		NO																																						
	B7	SW		NO																																						
	B8	SW		NO																																						
GARFIELD AVENUE	C1	NW	15	NO	SEE PID 111400, 118964, 120948, OR 123420 FOR DETAILS ON WORK TO BE COMPLETED AT THIS LOCATION																																					
	C2	NW		NO																																						
	C3	NE		NO																																						
	C4	SE		NO																																						
	C5	SE		YES*																																						
	C6	SW		YES*																																						
CORTLAND STREET	D1	NW	16	NO	SEE PID 111400, 118964, 120948, OR 123420 FOR DETAILS ON WORK TO BE COMPLETED AT THIS LOCATION																																					
	D2	NE		NO																																						
PLEASANT STREET	E1	NW	17	NO	SEE PID 111400, 118964, 120948, OR 123420 FOR DETAILS ON WORK TO BE COMPLETED AT THIS LOCATION																																					
	E2	NW		NO																																						
	E3	NE		NO																																						
	E4	NE		NO																																						
	E5	SE		NO																																						
	E6	SE		NO																																						
	E7	SW		NO																																						
	E8	SW		NO																																						
NEWTON STREET	F1	NW	18	NO	SEE PID 111400, 118964, 120948, OR 123420 FOR DETAILS ON WORK TO BE COMPLETED AT THIS LOCATION																																					
	F2	NE		NO																																						
MINARD PLACE & MANAHAN AVENUE	G1	NW	19	NO	91.53						67.05	53.54																														
	G2	NE		NO	91.88							71.09	25.64																													
	G3	NW		YES*	82.01	7.82							66.98	25.29	7.82																											
	G4	NE		YES*	127.82			9.73	0.19			80.65	39.40																													
STATE STREET	H1	NW	20	NO	159.56	23.77		40.49	0.75		70.92	108.25	14.00																													
	H2	NE		NO	126.43	20.51		15.22	0.29		70.51	85.00	17.02																													
CASE AVENUE & CHURCH STREET	I1	NW	21	YES*	NO WORK DUE TO RIGHT-OF-WAY																																					
	I2	NE		YES*																																						
	I3	SE		YES*																																						
	I4	SW		YES*																																						
HESTER STREET	J1	NW	22	YES*	NO WORK DUE TO RIGHT-OF-WAY																																					
	J2	NE		YES*																																						
	J3	NE		YES*																				63.08	31.26	15.50				99.18	65.40		30.85									
	J4	SE		NO																				118.60		15.00					90.69	97.08										
US 250	K1	NW	23	YES*	NO WORK - CANNOT IMPROVE																																					
	K2	NE		YES*																																						
	K3	SE		YES*																																						
	K4	SW		YES*																																						
LINWOOD AVENUE	L1	NW	24-26	YES*	NO WORK DUE TO RIGHT-OF-WAY																																					
	L2	NE		NO																				84.33		15.92				121.72												
	L3	NE		NO																				102.46	13.49	14.75				95.90	8.63		12.21									
	L4	SE		NO																				100.38	25.99	23.51				94.40	45.94		21.13	8.42								
	L5	SE		YES*																				NO WORK DUE TO RIGHT-OF-WAY																		
	L6	SW		YES*																																						
	L7	SW		NO																																						
TOTAL CARRIED TO SUB SUMMARY - SHEET 12					1438	173	124	97	2	0	1200	636	42	83	22	0	0	0	0	0	0	0	0	0																		

SR 61 PEDESTRIAN FACILITY SUBSUMMARY

DESIGN AGENCY



CHAGRIN VALLEY  
ENGINEERING, LTD.

DESIGNER

SHT

REVIEWER

EAFF01/03/25

PROJECT ID

107782

SUBSET

P.06

TOTAL

92

SHEET

P.50

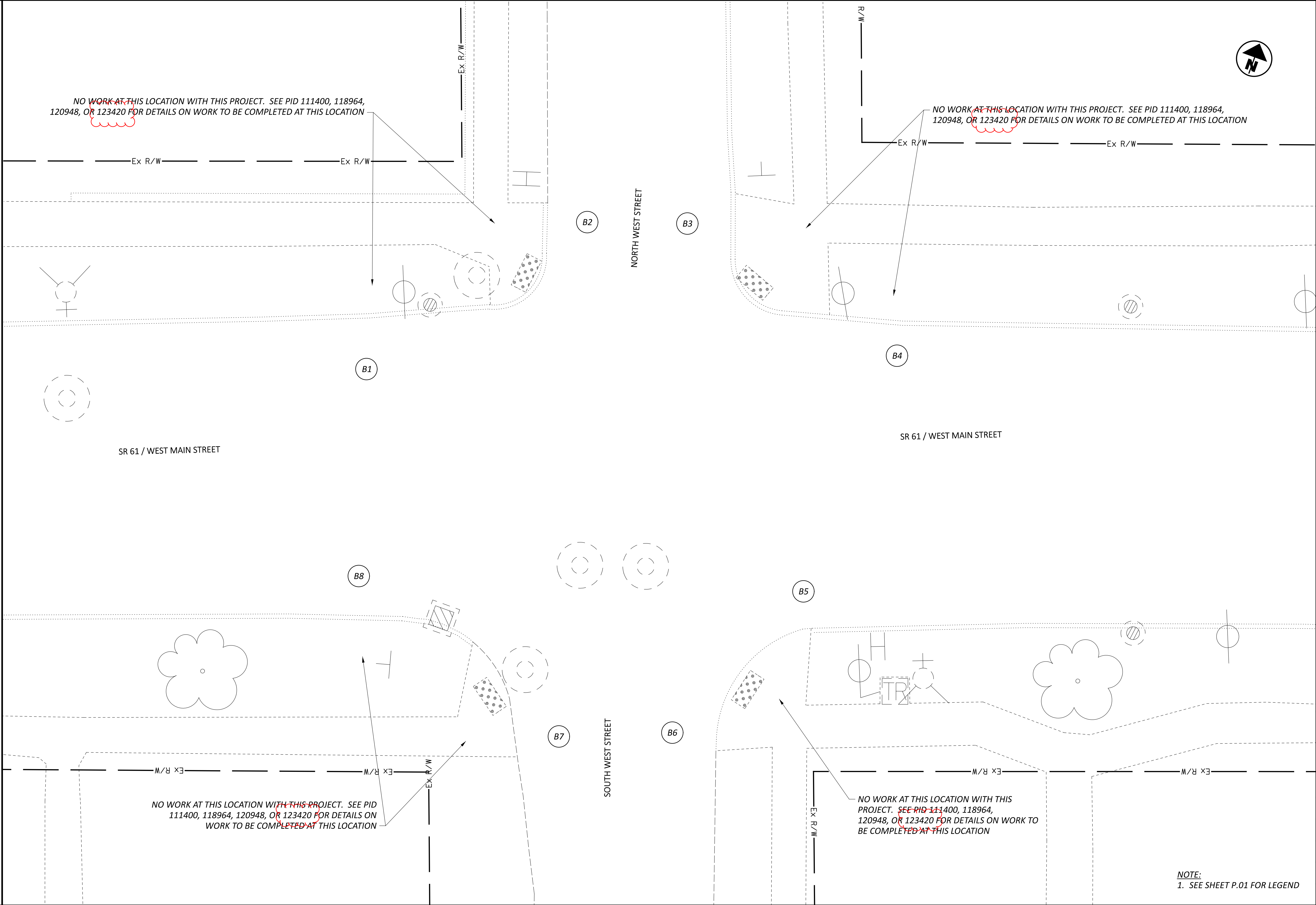
TOTAL

147



LOCATION			SUBSET SHEET NUMBER	WAIVER REQUESTED	202			659		252	608		609			630				632										
INTERSECTION	LOCATION CODE	DESCRIPTOR			WALK REMOVED	CURB REMOVED	CURB AND GUTTER REMOVED	TOPSOIL, AS PER PLAN	FULL DEPTH PAVEMENT SAWING	CURB RAMP	4" CONCRETE WALK	CURB, TYPE 6	CURB, TYPE 6, AS PER PLAN	COMBINATION CURB AND GUTTER, TYPE 2	CURB, TYPE 2-A, AS PER PLAN	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED SIGN SUPPORT AND DISPOSAL	SIGN. FLAT SHEET	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	ACCESSIBLE PEDESTRIAN PUSHBUTTON	REUSE OF PEDESTRIAN SIGNAL HEAD, AS PER PLAN	PEDESTAL FOUNDATION, AS PER PLAN							
* - WHEN IN THE WAIVER COLUMN, MEANS TO SEE GENERAL NOTES OR PLAN SHEET FOR RAMP ID NUMBER (ALTERATION WAIVER)					SF	FT	FT	AREA (SF)	CY	FT	SF	SF	FT	FT	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH						
SUBTOTALS FROM SHEET 6					1438	173	124	97	2	0	1200	636	42	83	22	0	0	0	0	0	0	0	0	0	0	0				
SUBTOTALS FROM SHEET 7					5130	756	163	259	5	0	3515	2235	243	109	48	21	0	0	0	0	0	0	0	0	0	0				
SUBTOTALS FROM SHEET 8					1669	224	14	232	5	0	1021	715	74	0	7	82	0	0	0	0	0	1	1	1	1					
SUBTOTALS FROM SHEET 9					4103	119	543	762	15	32	3169	1918	37	0	180	49	1	0	0	5	1	1	2	3	3					
SUBTOTALS FROM SHEET 10					3544	251	213	117	3	0	3139	1158	36	0	61	41	4	4	1	0	0	1	1	1	1					
SUBTOTALS FROM SHEET 11					5608	452	219	363	7	0	4324	1800	82	0	58	82	0	0	0	0	1	1	4	5	5					
TOTAL CARRIED TO GENERAL SUMMARY					21492	1975	1276	1830	37	32	16368	8462	514	192	376	275	5	4	1	5	2	2	8	10	10					





**NOTE:**  
1. SEE SHEET P.01 FOR LEGEND

HORIZONTAL  
SCALE IN FEET

0


2.5

5

10

PEDESTRIAN FACILITIES (HUR-61-17.851)  
SR 61 / WEST MAIN STREET, NORTH & SOUTH WEST STREET INTERSECTION

DESIGN AGENCY

**CHAGRIN VALLEY  
ENGINEERING, LTD.**

DESIGNER

SHT

REVIEWER

EAF 01/03/25

PROJECT ID

107782

SUBSET

P.14

TOTAL

92

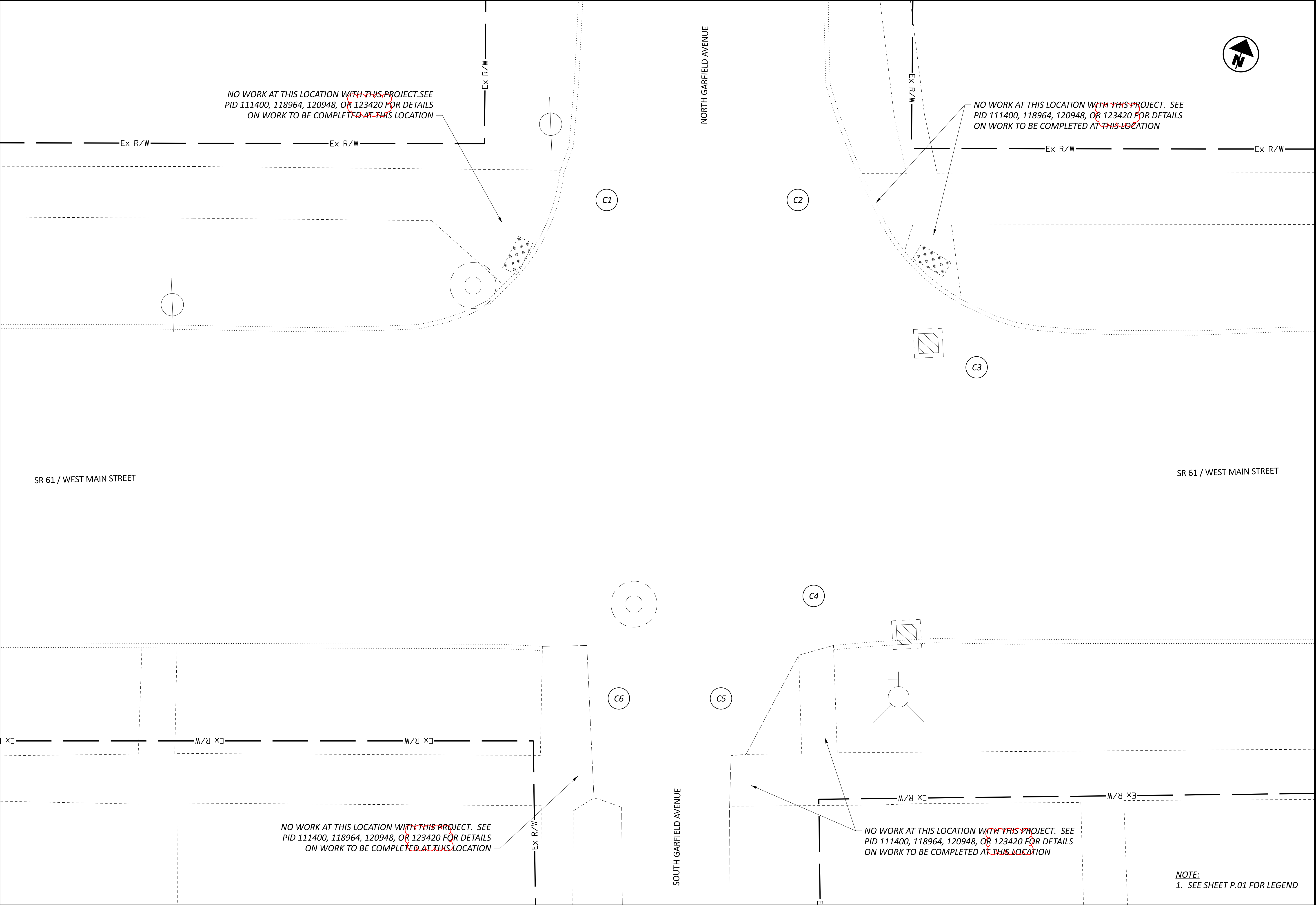
SHEET

P.58

TOTAL

147





HORIZONTAL  
SCALE IN FEET

0


2.5

5

10

PEDESTRIAN FACILITIES (HUR-61-18.109)  
SR 61 / WEST MAIN STREET & GARFIELD AVENUE INTERSECTION

DESIGN AGENCY

  
CHAGRIN VALLEY  
ENGINEERING, LTD.

DESIGNER

SHT

REVIEWER

EAF 01/03/25

PROJECT ID

107782

SUBSET

P.15

TOTAL

92

SHEET

P.59

TOTAL

147

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 2/5/2025 TIME: 1:33:15 PM USER: thomas  
P:\23075 ODOT 03-D12 GES\117277\Task 10 - HUR US250-00.75 Norwalk Curb Ramps - PID 107782\107782\400-Engineering\Roadway\Sheets\107782\_GM004.dgn

SR 61 / WEST MAIN STREET

$D2$

NO WORK AT THIS LOCATION WITH THIS PROJECT. SEE  
PID 111400, 118964, 120948, OR 123420 FOR DETAILS  
ON WORK TO BE COMPLETED AT THIS LOCATION

NOTE:  
1. SEE SHEET P.01 FOR LEGEND

DESIGN AGENCY

**CVE**

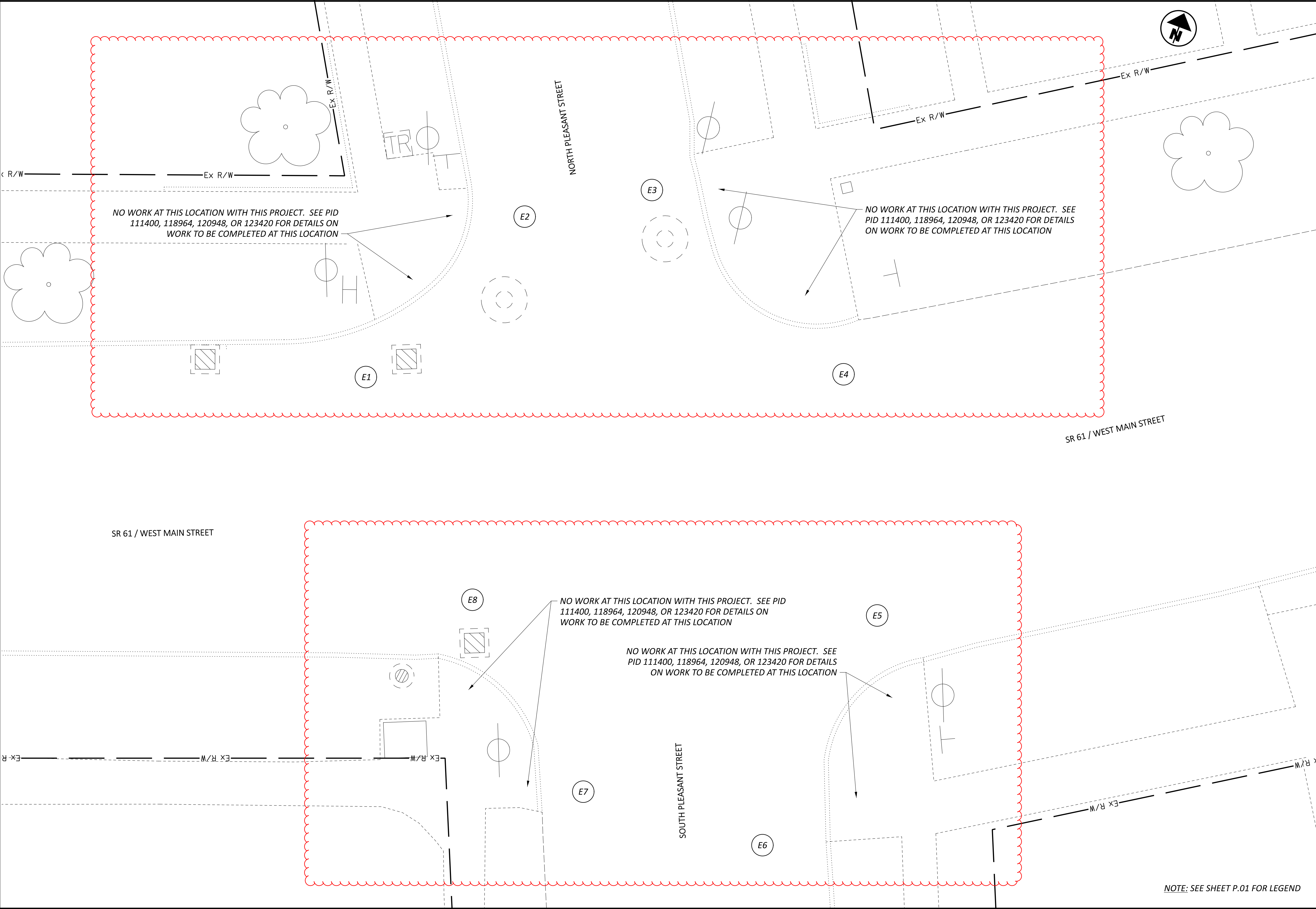
**CHAGRIN VALLEY  
ENGINEERING, LTD.**

DESIGNER	
SHT	
REVIEWER	
EAF 01/03/25	
PROJECT ID	
107782	
SUBSET	TOTAL
P.16	92
SHEET	TOTAL
P.60	147

PEDESTRIAN FACILITIES (HUR-61-18.240)

A horizontal scale bar labeled "HORIZONTAL SCALE IN FEET". It has three major markings: 2.5, 5, and 10. The segment between 0 and 2.5 is divided into two equal parts by a tick mark at 1.25. The segment between 2.5 and 5 is divided into four equal parts by tick marks at 3.75, 5, and 6.25. The segment between 5 and 10 is divided into eight equal parts by tick marks at 7.5, 10, and 12.5.





HORIZONTAL  
SCALE IN FEET

0

2.5


5

10

PEDESTRIAN FACILITIES (HUR-61-18.376)

SR 61 / WEST MAIN STREET & PLEASANT STREET INTERSECTION

DESIGN AGENCY



CHAGRIN VALLEY  
ENGINEERING, LTD.

DESIGNER

SHT

REVIEWER

EAF 01/03/25

PROJECT ID

107782

SUBSET

P.17

TOTAL

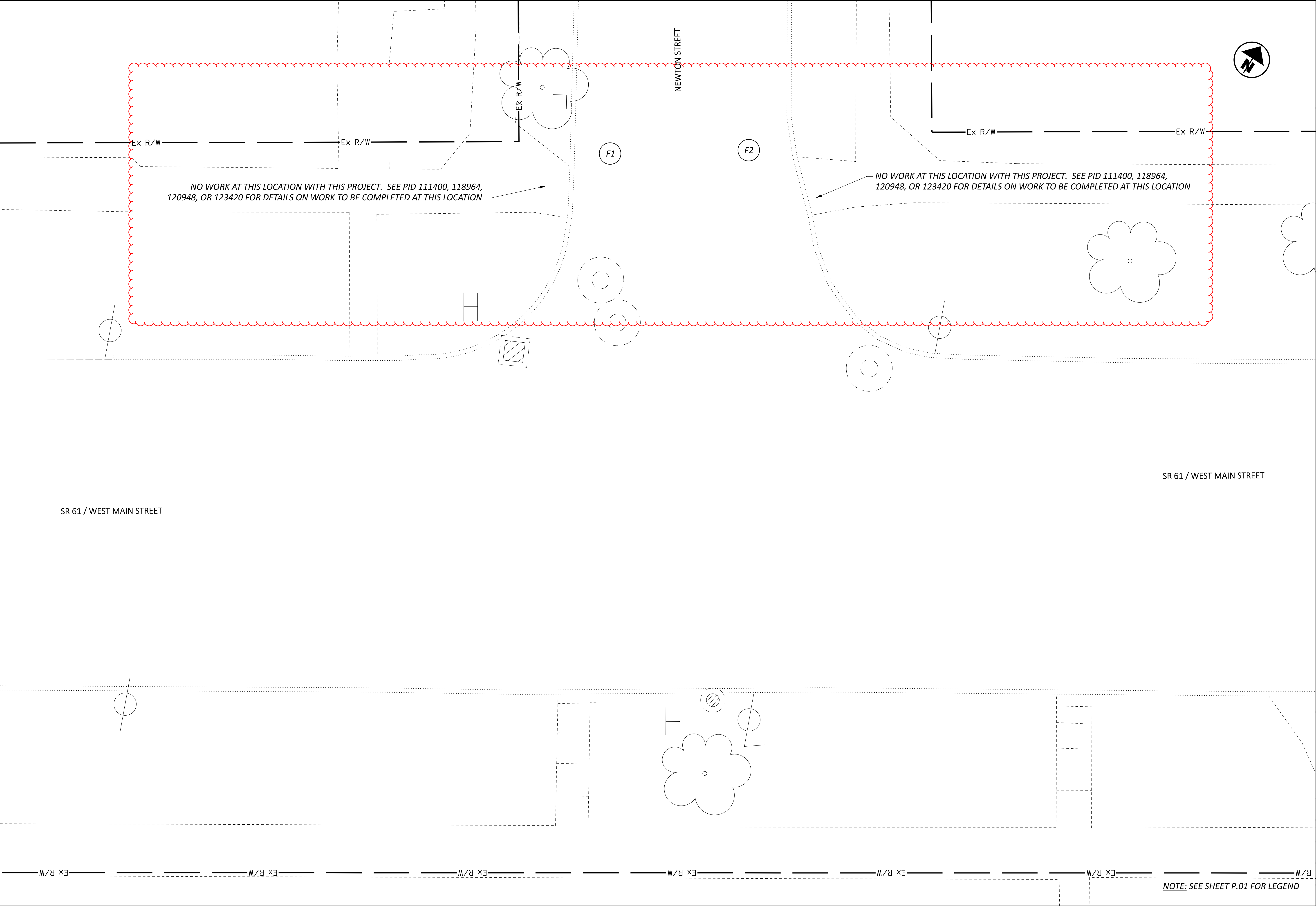
92

SHEET

P.61

TOTAL

147



DESIGN AGENCY

  
CHAGRIN VALLEY  
ENGINEERING, LTD.

DESIGNER

SHT

REVIEWER

EAF 01/03/25

PROJECT ID

107782

SUBSET

P.18

TOTAL

92

SHEET

P.62

TOTAL

147

PEDESTRIAN FACILITIES (HUR-61-18.502)

SR 61 / WEST MAIN STREET & NEWTON STREET INTERSECTION

HORIZONTAL  
SCALE IN FEET

0

2.5

5

10



AUXILIARY & LONG LINE MARKINGS																																
COUNTY	ROUTE	PLAN SPLIT	SLM		HIGHWAY MILES		614			642, TYPE 1					644														646	646	646	646
							WORK ZONE CENTER LINE, CLASS III, 642 PAINT	WORK ZONE STOP LINE, CLASS III, 642 PAINT		EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)	CENTER LINE (SOLID LINE EQUIVALENT)	CENTER LINE (TOTAL PAY QUANTITY)		AUXILIARY MARKINGS (740.04)																	
															STOP LINE	CROSSWALK LINE	CROSSWALK LINE, AS PER PLAN	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING (72 INCH)	PAVEMENT MARKING, MISC.: (HANDICAP PARKING STALL)	TRANSVERSE/DIAGONAL LINE	CHANNELIZING LINE, 8"	LANE ARROW				PARKING LOT STALL MARKING					
			LEFT	RIGHT																			THROUGH	COMBINATION								
			FROM	TO	MILE		MILE	FT		MILE	MILE	MILE	MILE		FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	FT		MILE	MILE	MILE	MILE
HUR	61C																															
HUR	61C EB	02/S<2/05	0.05	0.09	0.04					0.04	0.04																					
HUR	61C EB	02/S<2/05	0.09	0.50	0.41		0.82	60		0.41	0.41	0.10	0.41		30																	
HUR	61C EB	02/S<2/05	0.50	0.59	0.09																											
HUR	61C WB	02/S<2/05	0.02	0.48	0.46					0.46	0.46				48																	
HUR	61C WB	02/S<2/05	0.48	0.59	0.11		0.22	96		0.11	0.11	0.03	0.11																			
HUR	61C	02/S<2/05	0.59	0.61	0.02					0.02	0.02																		0.04	0.04	0.01	0.04
HUR	61C	02/S<2/05	0.61	0.71	0.10		0.40			0.20	0.20	0.05	0.20																			
HUR	61																															
HUR	61	02/S<2/05	16.98	17.15	0.17		0.34	108		0.34		0.34	0.17		54																	
HUR	61	02/S<2/05	17.15	17.25	0.10		0.40			0.20	0.20	0.05	0.20																			
HUR	61	02/S<2/05	17.25	17.29	0.04					0.08	0.08																					
HUR	61	02/S<2/05	17.29	17.35	0.06		0.06			0.12	0.06	0.06	0.03								94	111	2									
HUR	61	02/S<2/05	17.35	18.50	1.15																											
HUR	61	02/S<2/05	18.50	18.56	0.06		0.12					0.12	0.06																			
HUR	61	02/S<2/05	18.56	18.57	0.01		0.02																									
HUR	61	02/S<2/05	18.57	18.78	0.21		0.42	328				0.52	0.21		164							486	11	2			940		0.02	0.02	0.01	0.02
HUR	61	02/S<2/05	18.78	18.80	0.02																											
HUR	61	02/S<2/05	18.80	19.12	0.32		0.64	618				0.70	0.32		309	375	126			2	4		971	21	2		1800					
HUR	61	02/S<2/05	19.12	19.21	0.09		0.18					0.18	0.09																			
HUR	61	02/S<2/05	19.21	19.40	0.19		0.38					0.38	0.19																			
HUR	61	02/S<2/05	19.40	19.54	0.14		0.28	66				0.28	0.14		33	148						72		2								
HUR	61	02/S<2/05	19.54	19.55	0.01																											
HUR	61	02/S<2/05	19.55	19.59	0.04		0.08	20				0.08	0.04		10	163	30															
HUR	61	02/S<2/05	19.59	20.27	0.68		1.36	22				1.36	0.68		11	163	30															
HUR	61	02/S<2/05	20.27	20.31	0.04		0.20	80		0.08		0.20	0.10		40																	
HUR	61	02/S<2/05	20.31	20.38	0.07		0.14			0.14		0.11	0.07																			
PLAN SPLIT SUBTOTALS																																
01/S<2/05																																
02/S<2/05			4.63				6.06	1398		2.20	1.58	4.56	3.02		699	849	186		2	4		94	1640	34	6		2740		0.08	0.08	0.02	0.08
TOTALS							6.06	1,398		2.20	1.58	4.56	3.02		699	849	186		2	4		94	1640	34	6		2,740		0.08	0.08	0.02	0.08

TOTALS CARRIED TO TRAFFIC SUBSUMMARY

AUXILIARY & LONG LINE MARKINGS																															
COUNTY	ROUTE	PLAN SPLIT	SLM		HIGHWAY MILES	644																		646	646	646	646				
						614		642, TYPE 1				AUXILIARY MARKINGS (740.04)																			
						WORK ZONE CENTER LINE, CLASS III, 642 PAINT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)	CENTER LINE (SOLID LINE EQUIVALENT)	CENTER LINE (TOTAL PAY QUANTITY)	STOP LINE	CROSSWALK LINE	CROSSWALK LINE, AS PER PLAN	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING (72 INCH)	MISC.: (HANDICAP PARKING STALL)	TRANSVERSE/DIAGONAL LINE	CHANNELIZING LINE, 8"	LANE ARROW								PARKING LOT STALL MARKING			
																				2 APPLICATIONS	LEFT	RIGHT							THROUGH	COMBINATION	
			FROM	TO	MILE	MILE	FT		MILE	MILE	MILE	MILE		FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	FT		MILE	MILE	MILE	MILE
PLAN SPLIT SUBTOTALS																															
		01/S<2/05				2.05	704		0.60	0	1.57	1.02		352	0	0	0	0	0	1463	1617	11	5	0	0	0		0.10	0.00	0.10	0.05
		02/S<2/05				15.82	3020		2.28	1.58	12.68	7.91		1510	2221	667	2	4	4	1006	8171	161	34	3	2	3010		0.08	0.08	0.02	0.08
TOTALS						17.87	3,724		2.88	1.58	14.25	8.93		1,862	2,221	667	2	4	4	2,469	9,788	172	39	3	2	3,010		0.18	0.08	0.12	0.13

TOTALS CARRIED TO GENERAL SUMMARY

PLAN SPLIT SUBTOTALS  
TRAFFIC SUBSUMMARY

DESIGN AGENCY

DISTRICT 3



ENGINEERING  
TEAM ONE

DESIGNER

ERC

REVIEWER

KRB 12/23/24

PROJECT ID

107782

SHEET

P.139

TOTAL

147



STRUCTURE HUR-61-1856 NOTES

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

STANDARD DRAWING	DATE	SUPPLEMENTAL SPECIFICATION	DATE
		800	01-17-25
		832	07-19-24
		848	07-19-24

DESIGN SPECIFICATIONS

THESE STRUCTURES CONFORM TO THE 9TH EDITION OF THE “LRFD BRIDGE DESIGN SPECIFICATIONS” ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING

N/A

DESIGN DATA

STRUCTURE	MATERIAL DATA
HUR-61-1856	CONCRETE CLASS QC2 – COMPRESSIVE STRENGTH = 4.5 KSI AT 28 DAYS EPOXY-COATED REINFORCING STEEL – MINIMUM YIELD STRENGTH = 60 KSI

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES 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.

HUR-61-1856 CONSTRUCTION ACCESS

ACCESS TO THE UNDERSIDE OF STRUCTURE HUR-61-1856 MAY BE ACCOMPLISHED BY SNOOPER TRUCK, NEGOTIATED BY THE CONTRACTOR WITH THE ADJACENT PROPERTY OWNER TO THE SOUTHWEST OF THE BRIDGE, OR BY OTHER MEANS APPROVED BY THE ENGINEER. RAIL FLAGGING WILL BE REQUIRED FOR ALL WORK BELOW DECK LEVEL. NO TEMPORARY RIGHT OF WAY WILL BE AQUIRED FOR THIS WORK.

RECOMMENDED SEQUENCE OF WORK

IT IS RECOMMENDED THAT WORK BE PERFORMED IN THE FOLLOWING SEQUENCE. ALTERNATIVE APPROACHES MAY BE PROPOSED TO ENGINEER, WITH APPROVAL AT THEIR DISCRETION. BOTH DIRECTIONS OF TRAFFIC AND AT LEAST ONE AVAILABLE SIDEWALK FOR PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

RECOMMENDED SEQUENCE OF WORK:

- PHASE 1 (WORK LEFT OF CENTERLINE)
  - REMOVE TURF AND SOIL
  - REMOVE CONCRETE AS SPECIFIED IN ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, AND REMOVE EXISTING EXPANSION JOINT FILLER MATERIALS
  - PLACE CLASS QC2 CONCRETE AND ASSOCIATED ITEMS. REPAIRS SHALL BE POURED TO GRADE AND PREPARED FOR OVERLAY IN THE SAME MANNER AS THE EXISTING DECK.
  - CONDUCT OVERLAY OPERATIONS
  - PLACE EXPANSION JOINT SEALER MATERIAL, SEAL OVERLAY CONSTRUCTION JOINTS WITH HMWM RESIN, AND PLACE TOPSOIL AND SEEDING AND MULCHING ITEMS
- PHASE 2 (WORK RIGHT OF CENTERLINE)
  - REMOVE TURF AND SOIL
  - REMOVE CONCRETE AS SPECIFIED IN ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, AND REMOVE EXISTING EXPANSION JOINT FILLER MATERIALS
  - PLACE CLASS QC2 CONCRETE AND ASSOCIATED ITEM.S REPAIRS SHALL BE POURED TO GRADE AND PREPARED FOR OVERLAY IN THE SAME MANNER AS THE EXISTING DECK.
  - CONDUCT OVERLAY OPERATIONS
  - PLACE EXPANSION JOINT SEALER MATERIAL, SEAL OVERLAY CONSTRUCTION JOINTS WITH HMWM RESIN, AND PLACE TOPSOIL AND SEEDING AND MULCHING ITEMS

ITEM 203 – EXCAVATION, AS PER PLAN

ITEM 659 – TOPSOIL, AS PER PLAN

ITEM 659 – SEEDING AND MULCHING

THE INTENT OF THESE ITEMS IS TO PROVIDE FOR THE REMOVAL, REPLACEMENT, AND RESEEDING OF AREAS OF TURF COVERING LOCATIONS SPECIFIED FOR STRUCTURAL REPAIRS IN THE PLANS. EXCAVATE ENOUGH SOIL TO PROVIDE ACCESS TO THE AREAS SPECIFIED FOR REPAIR AND EXPANSION JOINT REHABILITATION. FOLLOWING COMPLETION OF THESE REPAIRS, PLACE TOPSOIL AND SEEDING AND MULCHING ITEMS TO RESTORE THE TURFED AREAS. QUANTITIES ARE INCLUDED IN THE STRUCTURE SUBSUMMARY.

THE ESTIMATED QUANTITIES CARRIED TO THE STRUCTURE SUBSUMMARY ASSUME THE NEED FOR 1’ OF SOIL REMOVAL ON EITHER SIDE OF THE EXPANSION JOINTS, AND SOIL REMOVAL ON TOP OF AND 1’ AROUND THE PERIMETER OF REPAIR LOCATIONS.

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

MAXIMUM REMOVAL LIMITS: SOUND THE CONCRETE TO DETERMINE THE LIMITS OF THE CONCRETE TO BE REMOVED AND COMPARE THESE LIMITS TO THE AREAS SHOWN IN THE PLANS. IF NEW AREAS ARE DISCOVERED OR IF THE DIMENSIONS OF THE PLAN AREAS INCREASE BY MORE THAN 25% IN ANY DIRECTION, DOCUMENT THE AREAS AND NOTIFY THE ENGINEER FOR EVALUATION TWO WEEKS PRIOR TO REMOVAL. THE ENGINEER WILL DETERMINE IF PATCHING IN DISCRETE SECTIONS/STAGES IS NEEDED OR IF THE INSTALLATION OF TEMPORARY FALSEWORK IS REQUIRED.

REMOVE DEBRIS AND ASPHALTIC MATERIAL FROM ABUTMENT SEATS IN PREPARATION FOR PLACEMENT OF FORMWORK. SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1” DEEP, EXCEPT IN LOCATIONS WHERE OVERLAY IS TO FOLLOW PATCHING WORK. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, WHERE REQUIRED IN THE PLANS, IN PLACE. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

THE QUANTITY CARRIED TO THE STRUCTURE SUBSUMMARY REPRESENTS ALL WORK LISTED ABOVE, INCLUDING CONCRETE REMOVAL AND REMOVAL OF BUILT-UP DEBRIS ON THE ABUTMENT SEATS.

ITEM 202 – REMOVAL MISC.: JOINT SEALER

THIS ITEM SHALL CONSIST OF REMOVING ALL EXISTING JOINT SEALER AND PREFORMED FILLER FOUND ALONG THE FULL LENGTH OF BOTH EXPANSION JOINTS, AND THE CLEANING OF VERTICAL SURFACES ON EITHER SIDE OF THE JOINT TO A CONDITION SUITABLE FOR POSITIVE ADHESION OF ITEM 516 – JOINT SEALER TO EACH SIDE. PAYMENT SHALL BE MADE AT THE BID PRICE PER FOOT AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO COMPLETE THIS WORK.

ITEM 509 – EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN

A QUANTITY OF ITEM 509 – EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN, HAS BEEN INCLUDED IN THE STRUCTURE SUBSUMMARY FOR THE PURPOSE OF SUPPLEMENTING EXISTING REINFORCEMENT EXIBITING SECTION LOSS IN EXCESS OF 25%, OR OTHERWISE DEEMED DEFICIENT BY THE ENGINEER. SISTER THE CORRODED REINFORCEMENT WITH A NEW #4 BAR ADJACENT TO THE CORRODED STEEL. THE LENGTH OF THE NEW STEEL SHALL BE SUFFICIENT TO EXTEND 23” BEYOND THE LIMITS OF SECTION LOSS, OR TO THE LIMITS OF THE REPAIR AREA, WHICHEVER IS LESS.

ITEM 513 – TRIMMING OF BEAM ENDS, AS PER PLAN

DURING FIELD INSPECTION, IT WAS OBSERVED THAT SOME BEAM ENDS MAY BE IN CONTACT WITH THE ABUTMENT BACKWALL. THE BEAM ENDS SHALL BE INSPECTED BY THE ENGINEER, AND ANY FOUND TO MEASURE WITHIN ½” OF THE ABUTMENT BACKWALL SHALL BE IDENTIFIED FOR TRIMMING. REMOVE ¾” OF LENGTH FROM EACH BEAM END IDENTIFIED FOR TRIMMING, USING MEANS APPROVED BY THE ENGINEER THAT WILL NOT CAUSE DAMAGE TO REMAINING PORTIONS OF THE BEAM.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF SUPPORTING PORTIONS OF EXISTING STRUCTURE TO THE REQUIREMENTS DEFINED IN THE PROJECT PLANS, FOR THE PURPOSE OF SUPPORTING PORTIONS OF DECK OVERHANGING THE FASCIA BEAMS ADJACENT TO CONCRETE REPAIRS, PREVENTING ANY SAGGING OR CRACKING OF THE SIDEWALK. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 848 – FULL DEPTH REPAIR

THIS QUANTITY IS INCLUDED FOR THE REPAIR OF UNDOCUMENTED CONCRETE DECK SECTIONS IDENTIFIED BY THE ENGINEER AS DEFICIENT FOLLOWING HYDRODEMOLITION, PER SS 848.23. SPECIFIC LOCATIONS IDENTIFIED IN THE PLANS FOR CONCRETE REMOVAL AND REPLACEMENT ARE PAID SEPARATELY UNDER ITEMS 202 AND 511.

RAILROAD COORDINATION NOTE – WHEELING & LAKE ERIE

ALL PARTIES, INCLUDING CONTRACTORS, SUBCONTRACTORS OR ANY OTHER PARTIES WISHING TO ENTER ON, NEAR, ABOVE, OR BELOW WHEELING & LAKE ERIE RAILWAY COMPANY’S (W&LE) RIGHT OF WAY AND PROPERTY, MUST EXECUTE ITS PERMIT TO ENTER PROPERTY AGREEMENT AND PROVIDE PROOF OF INSURANCE MEETING THE MINIMUM REQUIREMENTS. COORDINATION WITH W&LE FOR THE EXECUTION OF ITS PERMIT TO ENTER PROPERTY AGREEMENTS AND PROVIDING PROOF OF INSURANCE, AND ANY INQUIRIES RELATING TO SUCH, MUST BE SUBMITTED TO:

JEFFERY A. DAVIS JR.  
MANAGER OF REAL ESTATE  
WHEELING & LAKE ERIE RAILWAY COMPANY  
100 E 1<sup>ST</sup> ST.  
BREWSTER, OH 44613  
[JDAVISJR@WLERWY.COM](mailto:JDAVISJR@WLERWY.COM)  
330-767-7284


AFTER EXECUTING W&LE’S PERMIT FOR RIGHT OF ENTRY AND PROVIDING THE REQUIRED INSURANCE DOCUMENTATION, ALL WORK ON, NEAR, ABOVE OR UNDER, W&LE’S PROPERTY AND RIGHT OF WAY, UNLESS OTHERWISE SPECIFIED BY W&LE IN WRITING, REQUIRES TO SCHEDULE RAILROAD FLAGGING PROTECTION BY CONTACTING THE FOLLOWING:

HEIDI ROWLANDS  
ENGINEERING ADMINISTRATOR  
100 E FIRST STREET  
BREWSTER, OH 44613  
PHONE: 330-767-7229  
EMAIL: [HROWLANDS@WLERWY.COM](mailto:HROWLANDS@WLERWY.COM)

HUR-61-1856 STRUCTURE SUBSUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY	SHEET REF.
202E11301	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	CY	13	¼
202E98200	REMOVAL MISC.: JOINT SEALER	FT	169	¼
203E10001	EXCAVATION, AS PER PLAN	CY	4	¼
509E10001	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	LB	33	
511E34444	CLASS QC2 CONCRETE, BRIDGE DECK	CY	10	
512E10300	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	SY	15	
513E21001	TRIMMING OF BEAM END, AS PER PLAN	EACH	12	¼
516E31000	JOINT SEALER	FT	169	
516E47001	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LS		
659E00301	TOPSOIL, AS PER PLAN	CY	4	¼
659E10000	SEEDING AND MULCHING	SY	20	
659E14000	REPAIR SEEDING AND MULCHING	SY	1	
659E15000	INTER-SEEDING	SY	1	
659E20000	COMMERCIAL FERTILIZER	TON	0.01	
659E31000	LIME	ACRE	0.01	
659E35000	WATER	MGAL	0.11	
848E10200	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1.75" THICK	SY	125	
848E20000	SURFACE PREPARATION USING HYDRODEMOLITION	SY	125	
848E30200	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	CY	2	
848E50000	HAND CHIPPING	SY	19	
848E50100	TEST SLAB	LS		
848E50200	FULL DEPTH REPAIR	CY	6	

ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

SFN		3902048	
DESIGN AGENCY		DISTRICT 3	
		BRIDGE ENGINEERING	
DESIGNER	CHECKER		
JNC	KAK		
REVIEWER		KRB 12/12/24	
PROJECT ID		107782	
SUBSET	TOTAL		
1	6		
SHEET	TOTAL		
P.141	147		