

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

# SUM-WOOSTER RD W

## CITY OF BARBERTON SUMMIT COUNTY

**PROJECT DESCRIPTION**

RESURFACING AND RECONSTRUCTION OF APPROXIMATELY 7,242 FT OF WOOSTER ROAD WEST FROM 31ST STREET NW TO 4TH STREET NW. THE PROJECT INCLUDES HYDRODEMOLITION AND DECK RESURFACING OF 2 BRIDGES, A NEW ENHANCED SIDEWALK ON THE NORTH SIDE OF THE ROADWAY, NEW SIDEWALK ON THE SOUTH SIDE OF THE ROADWAY, NEW CURBS AND CURB RAMPS, ROAD NARROWING FROM 4 LANE TO 3 LANE, RECONNECTION OF STORM SEWER WITH NEW INLETS, AND SIGNAL UPGRADES.

PROJECT EARTH DISTURBED AREA: 12.89 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.67 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 14.56 ACRES

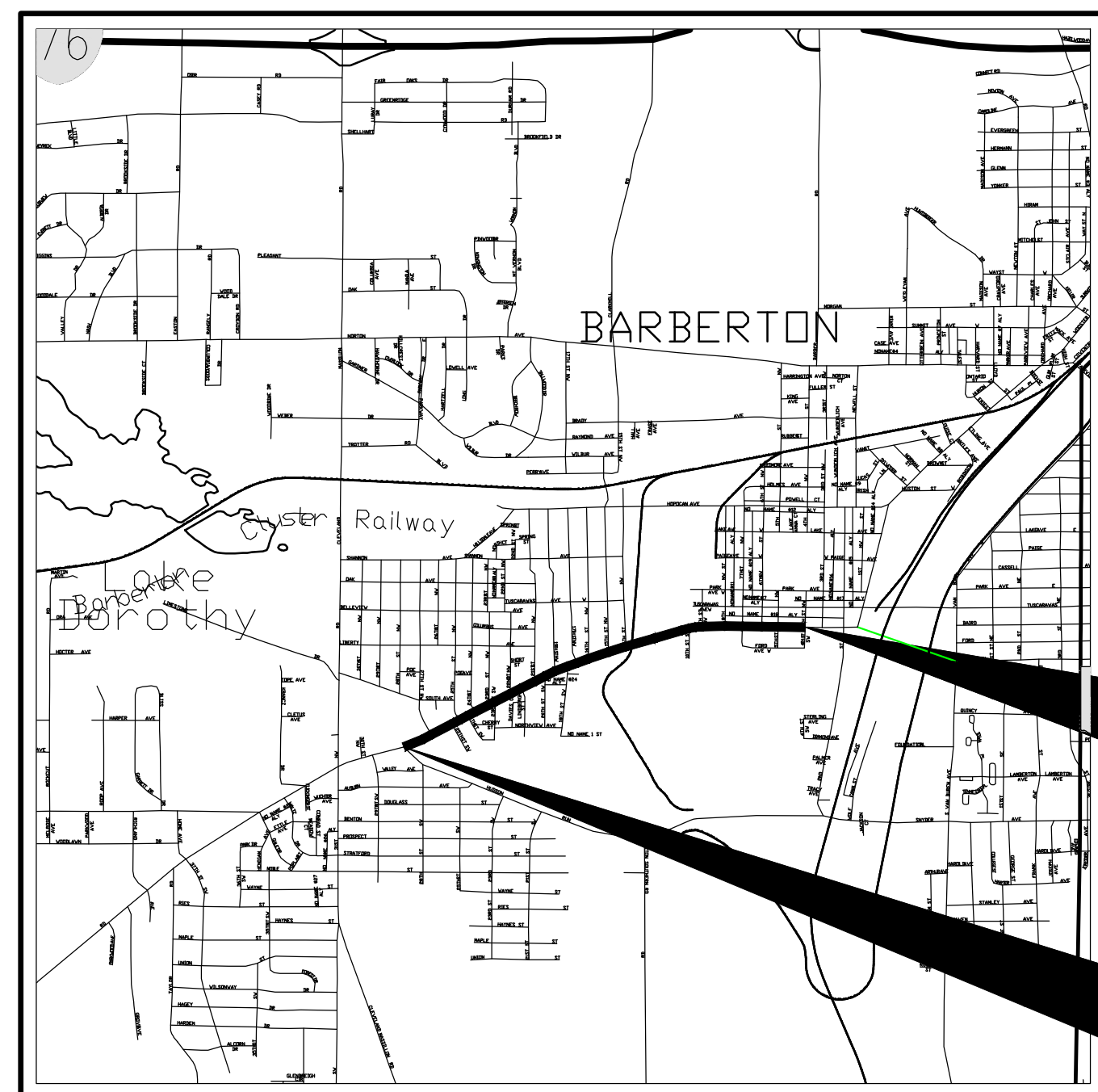
**2023 SPECIFICATIONS**

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF TO TRAFFIC OF THE HIGHWAY AND THE DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 20-26.

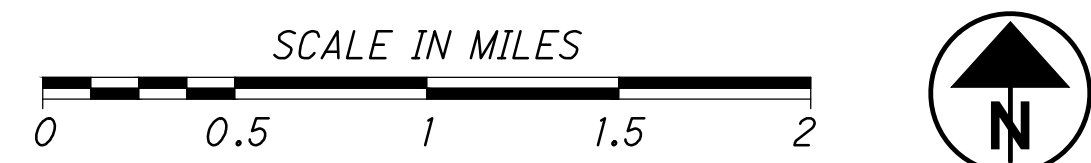
*Arthur G. Noirot Jr.*  
Arthur G. Noirot Jr., P.E.  
District 04 Deputy Director

*Jack Marchbanks*  
Jack Marchbanks, PhD  
Director, Department of Transportation



LOCATION MAP

LATITUDE: 41°00'38.6" N LONGITUDE: 81°37'23.3" W



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

**DESIGN DESIGNATION**

CURRENT ADT (2024)	-----	13,620
DESIGN YEAR ADT (2044)	-----	16,260
DESIGN HOURLY VOLUME (2044)	-----	1,880
DIRECTIONAL DISTRIBUTION	-----	68%
TRUCKS (24 HOUR B&C)	-----	550
DESIGN SPEED	-----	35 MPH
LEGAL SPEED	-----	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
URBAN PRINCIPAL ARTERIAL	-----	
NHS PROJECT	-----	NO

**DESIGN EXCEPTIONS**

NONE REQUIRED

**ADA DESIGN WAIVER**

NEW RAMP - RMP 0021483

**UNDERGROUND UTILITIES**  
CONTACT TWO WORKING DAYS BEFORE YOU DIG

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

**INDEX OF SHEETS:**

TITLE SHEET	1
SCHEMATIC PLAN	2-4
TYPICAL SECTIONS	5-6
GENERAL NOTES	8-10
MAINTENANCE OF TRAFFIC	11-63
GENERAL SUMMARY	64-68
SUBSUMMARIES	69-91
CALCULATIONS	92-97
PROJECT SITE PLAN	98-100
RESURFACING PLAN	100A
PLAN AND PROFILES - WOOSTER RD W	101-119
PLAN AND PROFILES - SIDE STREETS	120-143
CROSS SECTIONS - WOOSTER RD W	144-195
INTERSECTION DETAILS	196-214
DRIVE DETAILS	215-217
DRIVE PROFILES	218-241
CURB RAMP DETAILS	242-260
BARBERTON WATER DETAILS	261
TRAFFIC CONTROL	262-302
TRAFFIC SIGNALS	303-321
STRUCTURES	322-346
GEOTECHNICAL PROFILE - ROADWAY	347-354

SHEET 7 NOT USED

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/21/22	EXJ-3-82	1/18/13	HL-30.11	7/21/23	TC-12.31	4/15/22	800	10/20/23		
BP-4.1	7/19/13			HL-30.22	1/15/21	TC-16.22	7/21/23	805	7/16/10		
BP-5.1	7/15/22			TC-21.21	1/20/23			809	10/20/23		
BP-7.1	7/21/23			MT-95.31	7/19/19	TC-41.20	10/18/13	816	10/18/19		
				MT-95.32	4/19/19	TC-41.30	4/21/23	821	4/20/12		
CB-3	7/16/21			MT-97.10	4/19/19	TC-41.40	10/18/13	825	4/21/23		
CB-3A	7/16/21			MT-97.12	1/20/17	TC-42.20	10/18/13	832	7/21/23		
CB-6	1/21/22			MT-99.20	4/19/19	TC-52.10	10/18/13	848	1/15/24		
				MT-101.60	4/21/23	TC-52.20	1/15/21	903	7/20/12		
DM-1.1	7/17/20			MT-101.90	7/17/20	TC-71.10	4/21/23	907	10/18/19		
DM-1.2	7/16/21			MT-102.20	4/19/19	TC-74.10	7/21/23	909	10/20/23		
DM-3.1	1/18/13			MT-105.10	1/17/20	TC-81.22	7/21/23	916	7/21/23		
DM-4.3	1/15/16			MT-110.10	7/19/13	TC-82.10	7/19/19	921	4/20/12		
DM-4.4	1/15/16					TC-83.20	7/15/22				
						TC-85.10	10/21/22				
MH-3	7/21/23					TC-85.20	4/21/23				
RM-1.1	1/20/23										
RM-2.1	7/19/13										

ENGINEERS SEAL:	ENGINEERS SEAL:
BRIDGES	ENTIRE PLAN EXCEPT SHEETS OTHERWISE NOTED

PLAN PREPARED BY:



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FEDERAL PROJECT NO. E191722  
PID NO. 108240  
CONSTRUCTION PROJECT NO. N/A  
RAILROAD INVOLVEMENT AKRON BARBERTON CLUSTER RAILWAY  
SUM-WOOSTER RD W  
1/354

GENERAL

ROUNDING

THE ROUNDING AT SLOPE BREAK POINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT MATT STEELE, DISTRICT UTILITY COORDINATOR 330-786-4832, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED.

LISTED BELOW ARE UTILITY FACILITY OWNERS AS REPORTED TO US BY A THIRD PARTY UTILITY LOCATOR AND OHIO811 COORDINATION AS HAVING FACILITIES LOCATED WITHIN PROJECT LIMITS.

CITY OF BARBERTON
WATER, SEWER, LIGHTING
ATTN: TODD SHREVE
576 W. PARK AVE. - ROOM 103
BARBERTON, OHIO 44203
(330) 848-6724
TSHREVE@CITYOFBARBERTON.COM

CROWN CASTLE
ATTN: JON TARNOWSKI
15565 NEO PARKWAY
GARFIELD HEIGHTS, OH 44128
(585) 445-5813
JON.TARNOWSKI@CROWNCastle.COM

DOMINION ENERGY
ATTN: K. AARON CONANT
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OHIO 44333
(330) 664-2409
K.AARON.CONANT@DOMINIONENERGY.COM

AT&T OHIO
THE OHIO BELL TELEPHONE COMPANY
ATTN: CHRISTOPHER EMRICH
50 W. BOWERY STREET
6TH FLOOR
AKRON, OHIO 44308
CE3141@ATT.COM

AT&T TRANSMISSION
ATTN: BILL TAGGART
7555 E. PLEASANT VALLEY RD.,
SUITE 140
INDEPENDENCE, OHIO 44131
(614) 868-2511
WT2462@ATT.COM

METROPOLITAN COMMUNICATIONS GROUP
ATTN: JAMES SCHNEIDER
155 COMMERCE PARK DR.
SUITE 1
WESTERVILLE, OH 43082
(440) 525-4322
JAMES.SCHNEIDER@MCGFIBER.COM

OHIO EDISON
DISTRIBUTION
ATTN: CHRISTIAN PUTZIER
CPUTZIER@FIRSTENERGYCORP.COM
(216) 326-3208
TRANSMISSION
ATTN: MARY WALTON
MWALTON@FIRSTENERGYCORP.COM
6326 LAKE AVE.
ELYRIA, OHIO 44035
(216) 384-4928

SPECTRUM
CHARTER COMMUNICATIONS
ATTN: JIM LONG
1200 BROWNSTONE AVE.
AKRON, OHIO 44310
(330) 632-4106
JAMES.LONG@CHARTER.COM

VERIZON
ATTN: DANIEL ARZ
120 RAVINE ST.
AKRON, OHIO 44303
(440) 457-4832
DANIEL.ARZ@VERIZON.COM
VERIZON
ATTN: ALLAN GUEST
120 RAVINE ST.
AKRON, OHIO 44303
(330) 622-5967
ALLAN.GUEST@VERIZON.COM

COGENT
ATTN: STEVEN HUGHES
3007 TUCUMCARI DR.
SARDINIA, OHIO 45171
(513) 459-5796
SHUGHES@COGENTCO.COM

AS A RESULT OF OHIO811 COORDINATION AS DESCRIBED IN O.R.C. 153.64, THE SUBSURFACE UTILITY LINES SHOWN HEREON WERE MARKED ON THE GROUND BY THIRD PARTIES, OR DEPICTED IN RECORDS/MAPPING PROVIDED BY THIRD PARTIES THAT MAY OR MAY NOT SHOW ACCURATE LOCATION INFORMATION. THE THIRD PARTIES INVOLVED IN SAID COORDINATION WERE NOT CONTRACTUALLY OBLIGATED TO GPD GROUP. GPD GROUP ACCEPTS NO LIABILITY OR RESPONSIBILITY ARISING OUT OF ANY MATTERS RELATING TO THE MARKINGS OR INFORMATION PROVIDED BY THE THIRD PARTIES OF SAID SUBSURFACE UTILITIES. NO WARRANTY OR GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE LOCATION OR ACCURACY OF ANY SUBSURFACE UTILITIES. THEY ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

CONSTRUCTION NOISE
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 8 PM AND 7 AM. 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.

SURVEYING PARAMETERS
PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONS ON ODOT PROJECTS. SEE SHEET 4 FOR A TABLE CONTAINING PRIMARY PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PRIMARY PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PRIMARY CONTROL
POSITIONING METHOD: ODOT VRS

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD 88
ATTN: 12B

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE 3401
COMBINED SCALE FACTOR: 1.000103981 (PROJECT IS IN GROUND COORDINATES)
BASE POINT FOR SCALING: NORTHING 0 EASTING 0

USE THE POSITIONING METHOD AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623 - CONSTRUCTION LAYOUT STAKES AND SURVEY MONUMENTS.

UNITS ARE IN U.S. SURVEY FEET.
USE THE FOLLOWING CONVERSION FACTOR:
1 METER = 3.280833333 U.S SURVEY FEET

ITEM SPECIAL - SURVEY CONTROL VERIFICATION
THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

- 1) IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE PLAN.
c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.
2) IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDED IN THE PLAN
c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

BENCHMARKS AND CENTERLINE REFERENCE TIES
BENCHMARKS AND CENTERLINE REFERENCE TIES FOR THIS PROJECT WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

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.

CLEARING AND GRUBBING
REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED

Table with 3 columns: SIZE, NO. OF TREES, NO. STUMPS. Rows include 18", 30", and TOTAL.

MONUMENT ASSEMBLIES
CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND CITY OF BARBERTON DETAIL NO 25 AT THE LOCATIONS SHOWN ON SHEET NO. 2-3.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 623, MONUMENT ASSEMBLY, TYPE C 32 EA

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

Table with 3 columns: ADA FEATURE, APPROVAL DATE, SHEET NUMBERS. Row: RMP0021483, 05/30/2023, 243

DOMINION ENERGY
DOMINION WILL BE RELOCATED BY MAY 1ST/ 2024. THE CONTRACTOR MAY START WORK PRIOR TO MAY 1ST/ 2024, BUT MUST COORDINATE BASED ON THE DOMINION CONTRACTOR(S) WORK LOCATIONS AND SCHEDULE

ROADWAY

ITEM 204 - PROOF ROLLING
A QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEETS 92-97 FOR ADDITIONAL INFORMATION.

WALKWAY MISC: - DECORATIVE CONCRETE WALK
THIS ITEM CONSISTS OF CONSTRUCTING THE CONCRETE INCLUDING A STAMPED PATTERN AND STAIN COLORING FOR A 6" THICK DECORATIVE SIDEWALK.

- MATERIALS:
1. CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 609 OF THE ODOT STANDARD SPECIFICATIONS. CONCRETE SHALL BE CLASS QC IP.
2. FOLLOW THE MANUFACTURERS MIXING AND INSTALLATION REQUIREMENTS FOR THE COLORED CONCRETE. PROVIDE ONE OF THE FOLLOWING:
2.1. CHROMIX C-32 "QUARRY RED" AS MANUFACTURED BY LM SCOFIELD COMPANY (1-800-800-9900)
2.2. MIX-READY 160 "BRICK RED" AS MANUFACTURED BY DAVIS COLORS (1-800-356-4848)
2.3. COLORFLO 417 "PAVER RED" AS MANUFACTURED BY SOLOMON COLORS (1-800-624-0261)
3. COLORED CONCRETE WILL BE INTEGRAL COLORING APPLICATION, WITH COLORING ADDITIVES MIXED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. MIX UNTIL UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED THROUGHOUT THE MIXTURE.
4. CURING COMPOUND FOR COLORED CONCRETE: CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR USE WITH COLORED CONCRETE. PROVIDE JS CLEAR COAT SEALER OR APPROVED EQUAL ON ALL SURFACES IN THE MATCHING COLOR.
5. ADMIXTURES: DO NOT USE CALCIUM CHLORIDE ADMIXTURES.

- CONSTRUCTION:
1. PROVIDE A FIELD SAMPLE OF THE SURFACE COLORS, TEXTURES, AND PATTERN SPECIFIED FOR APPROVAL BY THE ENGINEER BEFORE BEGINNING WORK. THE SAMPLE SHALL BE 4'X8' MINIMUM IN SIZE AND BE CONSTRUCTED USING THE SAME TECHNIQUE AND MATERIALS INTENDED FOR THE FINAL PAVED SURFACE. THE SAMPLE MUST REMAIN ON-SITE FOR REFERENCE UNTIL CONSTRUCTION IS COMPLETE, THEN REMOVED FROM THE SITE.
2. PREPARE SUBGRADE AND INSTALL COLORED CONCRETE IN ACCORDANCE WITH THE PLANS AND SECTION 609 OF THE ODOT STANDARD SPECIFICATIONS, EXCEPT AS NOTED HEREIN.
3. FINISH: COLORED CONCRETE SHALL BE STAMPED WITH A HERRINGBONE USED BRICK PATTERN, OR APPROVED EQUAL. CONTRACTOR TO GET APPROVAL OF PATTERN FROM THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
4. CURING: APPLY CURING COMPOUND FOR COLORED CONCRETE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. APPLY CURING COMPOUND AT CONSISTENT TIME FOR EACH POUR TO MAINTAIN CLOSE COLOR CONSISTENCY.
5. PROTECT ADJACENT FINISHED SURFACES FROM SPLATTERS.
6. DO NOT ADD WATER TO THE CONCRETE AT THE JOB SITE, FOG, OR SPRAY SURFACE WITH WATER, OR PUT INTO PUMPS OR ONTO TOOLS OR BROOMS.
7. DO NOT APPLY COLOR ADDITIVES MEANT FOR INTEGRAL COLORING TO SURFACE OF CONCRETE.
8. TRANSVERSE CONCRETE JOINTS SHALL BE SAWCUT AT 10' INTERVALS MEASURED PERPENDICULAR TO THE CENTERLINE OF THE ROAD TO A MINIMUM 2" DEPTH. DOWELS ARE NOT REQUIRED AT THE JOINTS.

PAYMENT WILL INCLUDE THE COST OF FURNISHING AND PLACING ALL OF THE MATERIALS, FINISHING, AND TESTING. ODOT WILL PAY FOR ACCEPTED QUANTITIES AT TEH CONTRACT PRICE FOR:

WALKWAY MISC: - DECORATIVE CONCRETE WALK SQ. FT.

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MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

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

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

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

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

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

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

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

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

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

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED FOUR HOURS AND SHALL NOT INCLUDE THE HOURS OF 6:00AM TO 9:00AM AND 3:00PM TO 6:00PM, MONDAY THROUGH FRIDAY. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY OFF-DUTY CITY OF BARBERTON POLICE, HIRED BY THE CONTRACTOR.

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

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;
2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

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

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

ESTIMATED QUANTITIES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED TO RESTRIPE THE PROJECT AREA TO THE PROPOSED CONDITION AT THE END OF PHASE 2. REMOVAL OF THE EXISTING PHASE 2 PAVEMENT MARKINGS SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE PAY ITEM FOR THE QUANTITIES LISTED BELOW:

ITEM 614 - WORK ZONE LANE LINE, CLASS I, 4"	0.01 MILE
ITEM 614 - WORK ZONE CENTER LINE, CLASS I	3.00 MILE
ITEM 64 - WORK ZONE CHANNELIZING LINE, CLASS I, 8"	200 FT
ITEM 614 - WORK ZONE STOP LINE, CLASS I	650 FT
ITEM 614 - WORK ZONE RAILROAD SYMBOL MARKING, CLASS I	2 EACH

ASPHALT PAVING LIMITATION

THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL BAR CHART PROGRESS SCHEDULE TO THE DISTRICT CONSTRUCTION ENGINEER (DCE) AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

UTILITY RELOCATION COORDINATION - UTILITY POLES

AT&T AND FIRST ENERGY WILL BE RELOCATING THEIR FACILITIES ALONG THEIR RESPECTIVE SIDES OF WOOSTER WEST ROAD DURING CONSTRUCTION. ONCE PROPOSED CURBS ARE LOCATED AND/OR INSTALLED, AT&T AND FIRST ENERGY SHALL PROCEED WITH RELOCATIONS BEHIND THE CONTRACTOR'S WORK.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AT&T AND FIRST ENERGY FOR THE RELOCATION OF THE UTILITY POLES DURING CONSTRUCTION. ALL COST ASSOCIATED WITH COORDINATION SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC.

THE FOLLOWING CONTACT INFORMATION SHALL BE USED FOR UTILITY POLE RELOCATION:

AT&T  
ATTN: CHRIS EMRICH  
330-384-3556  
CE3141@ATT.COM

FIRST ENERGY  
ATTN: CHRISTIAN PUTZIER - DISTRIBUTION  
440-326-3208  
CPUTZIER@FIRSTENERGYCORP.COM

ITEM 614 - BUSINESS ENTRANCE SIGN, AS PER PLAN

THE BUSINESS ENTRANCE (M4-H15) SIGN SHALL BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH TYPE G OR TYPE H ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE MOUNTED ON TWO #3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LOCATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITION AT 90° TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614 - BUSINESS ENTRANCE SIGN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

ITEM 614 - BUSINESS ENTRANCE SIGN, AS PER PLAN	31 EACH
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COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT WHEELING & LAKE ERIE RAILWAY'S REPLACEMENT OF THE PPG NORTH INDUSTRIAL TRACK MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

ACCESS TO PROPERTIES

ACCESS SHALL BE MAINTAINED TO ALL RESIDENTIAL AND COMMERCIAL PROPERTIES EXCEPT WHEN A DRIVEWAY MUST BE CLOSED FOR CONSTRUCTION. ALL RESIDENTS AND PROPERTY OWNERS SHALL BE PROVIDED WRITTEN NOTIFICATION BY THE CONTRACTOR A MINIMUM OF 72 HOURS PRIOR TO THE CLOSURE. THE NOTICE SHALL LIST THE TIME THE CLOSURE WILL BE IN EFFECT AND SHALL LIST 24-HOUR EMERGENCY PHONE NUMBERS OF THE CONTRACTOR RESPONSIBLE FOR THE CLOSURE. THE TIMES SHALL BE COORDINATED WITH EACH RESIDENT AND PROPERTY OWNER. INDIVIDUAL DRIVE CLOSURES SHALL BE KEPT TO THE MINIMUM TIME NEEDED FOR CONSTRUCTION ACTIVITIES. EVERY EFFORT MUST BE MADE TO ACCOMMODATE THE RESIDENT OR OWNER'S NEED FOR ACCESS. ACCESS MAY BE MAINTAINED WITH THE USE OF ASPHALT, AGGREGATE, OR STEEL PLATES.

WHERE A DRIVEWAY IS WIDE ENOUGH, THE CONTRACTOR SHALL CONSTRUCT THE DRIVEWAY PART-WIDTH WHILE MAINTAINING TWO-WAY TRAFFIC. WHERE A PROPERTY HAS MORE THAN ONE DRIVEWAY, DRIVES SHALL BE CONSTRUCTED ONE AT A TIME.

ALL LABOR AND MATERIALS REQUIRED FOR THE WORK DESCRIBED ABOVE SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

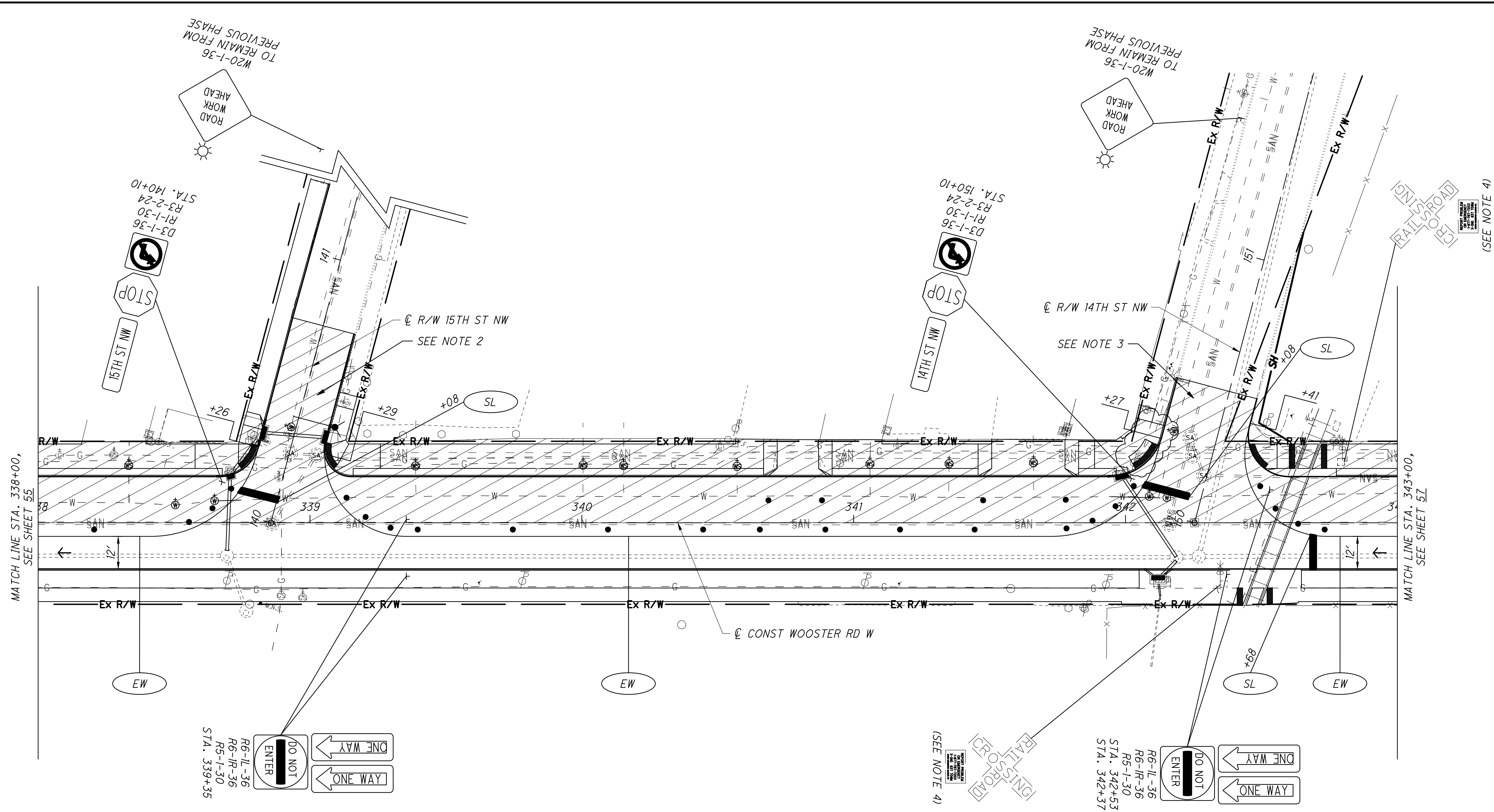
UTILITY RELOCATION COORDINATION - DOMINION ENERGY

DOMINION WILL BE RELOCATED BY MAY 1ST/ 2024. THE CONTRACTOR MAY START WORK PRIOR TO MAY 1ST/ 2024, BUT MUST COORDINATE BASED ON THE DOMINION CONTRACTOR(S) WORK LOCATIONS AND SCHEDULE

THE FOLLOWING CONTACT INFORMATION SHALL BE USED FOR DOMINION ENERGY RELOCATION:

DOMINION ENERGY  
ATTN: K. AARON CONANT  
(330) 664-2409  
K.AARON.CONANT@DOMINIONENERGY.COM

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NOTES:

1. THE CONTRACTOR SHALL COVER CONFLICTING SIGNING AND COVER OR REMOVE CONFLICTING PAVEMENT MARKINGS PRIOR TO CONSTRUCTION.
2. WHEN WORKING ON THE WOOSTER ROAD WEST / 15TH ST. NW INTERSECTION, 15TH ST. NW SHALL BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET 24.
3. WHEN WORKING ON THE WOOSTER ROAD WEST / 14TH ST. NW INTERSECTION, 14TH ST. NW SHALL BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET 25.
4. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 28.
5. THE CONTRACTOR SHALL MAINTAIN THE EXISTING RAILROAD FLASHER THROUGHOUT THE ENTIRETY OF THE PROJECT.

CALCULATED  
BEB  
CHECKED  
AKF

0 20 40  
HORIZONTAL  
SCALE IN FEET

10  
20  
30  
40

0 20 40  
HORIZONTAL  
SCALE IN FEET

**MAINTENANCE OF TRAFFIC PLAN - PHASE 2**  
**STA. 338+00 TO STA. 343+00**

**SUM-WOOSTER RD W**

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SHEET NUMBER										FUNDING				ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	JES	CHECKED	DEN
9	78	84	86	91	97	217	01/MPO/04 /BARB	02/SAF/21 /BARB	03/MPO/05 /BARB	04/NFA/13 /BARB													
			2092 13064				2392 13064					605	13410	2392	FT	DRAINAGE 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC							
300												605	14020	13064	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC							
		5	1160				5 1160					611	00200	5	FT	4" CONDUIT, TYPE C							
		6					6 1160					611	00510	1160	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS							
												611	01100	6	FT	6" CONDUIT, TYPE C							
30							30					611	01500	30	FT	6" CONDUIT, TYPE F							
		30					30					611	01800	30	FT	8" CONDUIT, TYPE B							
												611	02000	15	FT	8" CONDUIT, TYPE C							
		15					15					611	03100	140	FT	10" CONDUIT, TYPE B							
		140					140					611	03300	21	FT	10" CONDUIT, TYPE C							
		21					21					611	04400	1522	FT	12" CONDUIT, TYPE B							
		1522					1522					611	04600	31	FT	12" CONDUIT, TYPE C							
												611	05900	40	FT	15" CONDUIT, TYPE B							
		40					40					611	07400	40	FT	18" CONDUIT, TYPE B							
		40					40					611	08900	20	FT	21" CONDUIT, TYPE B							
		20					20					611	13400	176	FT	30" CONDUIT, TYPE B							
		176					176					611	97400	200	FT	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE					9		
200							200					611	97400	200	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE					9		
200							200					611	97400	200	FT	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE					9		
200							200					611	97400	200	FT	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE					9		
			44				44					611	98150	44	EACH	CATCH BASIN, NO. 3							
			38				38					611	98180	38	EACH	CATCH BASIN, NO. 3A							
												611	98370	1	EACH	CATCH BASIN, NO. 6							
												611	99575	9	EACH	MANHOLE, NO. 3, AS PER PLAN					9		
												611	99655	21	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN					9		
												611	99661	8	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN					9		
10							10					611	99720	10	EACH	INSPECTION WELL							
												895	10040	1	EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4							
						7018	1036		5982			254	01001	7018	SY	PAVEMENT PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN					10		
						5376	5376					301	56000	5376	CY	ASPHALT CONCRETE BASE, PG64-22, (449)							
						5889	399	6288				304	20000	6288	CY	AGGREGATE BASE							
						4567	27	3757	837			407	20000	4594	GAL	NON-TRACKING TACK COAT							
							2	2				411	10000	2	CY	STABILIZED CRUSHED AGGREGATE							
						1366		1158	208			441	50101	1366	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PLAN							
						1912		1620	291			441	50300	1911	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)							
							6	6				441	70500	6	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)							
							4	4				441	70700	4	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)							
							686	686				452	10050	686	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS							
							2846	2846				452	12050	2846	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS							
		16136					16136					609	26000	16136	FT	CURB, TYPE 6							
						96		96				638	01300	96	FT	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS							
						1		1				638	07800	1	EACH	6" GATE VALVE AND VALVE BOX							
						15		15				638	10480	15	EACH	FIRE HYDRANT REMOVED							
						46		46				638	10801	46	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN					9		
						102		102				638	10900	102	EACH	SERVICE BOX ADJUSTED TO GRADE							
						15		15				SPECIAL	63820750	15	EACH	6" FIRE HYDRANT (CITY OF BARBERTON)					10		

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REF. NO.	SHEET NO.	STATION (ALL STATIONS ARE BASED OFF € CONST WOOSTER RD W U.N.O.)		SIDE	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	895	
					4" CONDUIT, TYPE C	6" CONDUIT, TYPE C	8" CONDUIT, TYPE B	8" CONDUIT, TYPE C	10" CONDUIT, TYPE B	10" CONDUIT, TYPE C	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	15" CONDUIT, TYPE B	18" CONDUIT, TYPE B	30" CONDUIT, TYPE B	21" CONDUIT, TYPE B	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 6	MANHOLE, NO. 3, AS PER PLAN	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4
					FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
STRUCTURES																							
D-31	108	89+71.94 (€ R/W 20TH ST. SW)	RT																				
D-32	108	327+60.00	RT																				
D-33	108	329+19.63	LT																				
D-34	131	100+31.98 (€ R/W 19TH ST. NW)	LT																				
D-35	108	330+84.59	RT																				
D-36	109	109+60.87 (€ R/W 18TH ST. SW)	LT																				
D-37	109	109+70.69 (€ R/W 18TH ST. SW)	RT																				
D-38	109	332+67.59	LT																				
D-39	109	120+35.20 (€ R/W 17TH ST. NW)	LT																				
D-40	109	120+30.54 (€ R/W 17TH ST. NW)	RT																				
D-41	109	334+94.88	RT																				
D-42	109	335+17.51	LT	5																			
D-43	109	109+66.80 (€ R/W 18TH ST. SW)	RT																				
D-44	109	129+50.73 (€ R/W 16TH ST. SW)	LT																				
D-45	109	129+39.43 (€ R/W 16TH ST. SW)	RT																				
D-46	109	129+39.43 (€ R/W 16TH ST. SW)	RT																				
D-47	110	338+70.67	LT																				
D-48	110	140+31.29 (€ R/W 15TH ST. NW)	LT																				
D-49	111	341+98.54	LT																				
-----																							
D-51	111	342+12.00	RT		6																		
D-52	112	343+30.79	LT																				
D-53	112	343+29.38	RT				10																
D-54	112	346+83.27	LT																				
D-55	112	346+85.93	RT																				
D-56	114	351+33.46	LT																				
D-57	114	351+20.00	RT																				
D-58	114	351+33.46	RT																				
D-59	114	352+05.00	LT																				
D-60	114	352+05.00	RT																				
<b>TOTALS CARRIED TO SHEET 84</b>				5	6		15	58		381				176	11	12	1	5					

<b>SUM-WOOSTER RD W</b>	<b>DRAINAGE SUBSUMMARY - 2 OF 5</b>
CALCULATED ESB CHECKED HEB	81 354

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REF. NO.	SHEET NO.	STATION (ALL STATIONS ARE BASED OFF € CONST WOOSTER RD W U.N.O.)	SIDE	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	895	
				4" CONDUIT, TYPE C	6" CONDUIT, TYPE C	8" CONDUIT, TYPE B	8" CONDUIT, TYPE C	10" CONDUIT, TYPE B	10" CONDUIT, TYPE C	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	15" CONDUIT, TYPE B	18" CONDUIT, TYPE B	30" CONDUIT, TYPE B	21" CONDUIT, TYPE B	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 6	MANHOLE, NO. 3, AS PER PLAN	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4	
		FROM	TO	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
		STRUCTURES																					
DJ-1	103	308+65.89	RT																				
DJ-2	103	310+98.16	LT																		1		
DJ-3	104	312+70.50	RT																		1	1	
DJ-4	105	316+87.95	RT																		1		
DJ-5	105	318+08.56	RT																		1		
DJ-6	106	320+56.26	RT																		1		
DJ-7	107	325+45.86	RT																			1	
DJ-8	108	329+19.63	RT																			1	
DJ-9	108	330+84.59	RT																		1		
DJ-10	109	331+49.25	RT																			1	
DJ-11	124	314+10.36	LT																		1		
DJ-12	109	333+05.40	RT																		1		
DJ-13	109	335+52.66	RT																		1		
DJ-14	110	338+69.48	RT																		1		
DJ-15	110	338+76.64	RT																		1		
DJ-16	111	342+18.74	RT																		1		
DJ-17	111	342+26.94	RT																		1		
DJ-18	112	343+31.25	RT																		1		
DJ-19	112	346+91.76	RT																		1		
DJ-20	113	350+41.14	RT																		1		
DJ-21	115	355+56.27	RT																		1		
DJ-22	115	358+10.32	RT																		1		
DJ-23	139	179+54.92 (€ R/W STUVER PL.)	RT																		1		
DJ-24		NOT USED																					
DJ-25		NOT USED																					
DJ-26	116	359+22.24	RT																		1		
DJ-27	116	362+25.51	RT																			1	
DJ-28	141	200+77.80 (€ R/W 7TH ST. NW)	LT																		1		
DJ-29	116	362+73.38	RT																		1		
DJ-30	117	365+56.56	RT																			1	
DJ-31	118	368+40.05	RT																			1	
<b>TOTALS FROM SHEET 80</b>						30		37		362	35	30	40			8	20		1				
<b>TOTALS FROM SHEET 81</b>				5	6		15	58	381				176		11	12	1	5					
<b>TOTALS FROM SHEET 82</b>								45	21	534	31	10			19	6		3					
<b>TOTALS FROM SHEET 83</b>										245	25				20	6							1
<b>TOTALS FROM THIS SHEET</b>																				21	8		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				5	6	30	15	140	21	1522	91	40	40	176	20	44	38	1	9	21	8		1

<b>DRAINAGE SUBSUMMARY - 5 OF 5</b>	<b>SUM-WOOSTER RD W</b>
CALCULATED ESB CHECKED HEB	84 354

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REF. NO.	SHEET NO.	STATION (ALL STATIONS ARE BASED OFF € CONST WOOSTER RD W U.N.O.)		SIDE	605	605	611
		FROM	TO		6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
					FT	FT	FT
U-1B	101	300+36.02	301+35.08	LT		96.4	
U-1	101	302+43.45	303+61.21	LT		107.8	10
U-1A	102	305+55.13	303+61.21	LT		185.9	10
U-1C	102	20+44.00 (€ R/W 27TH ST NW)	20+42.32 (€ R/W 27TH ST NW)	LT		21.6	
U-5A	102	20+44.00 (€ R/W 27TH ST NW)	306+01.21	RT/LT		32.8	
U-5	102	306+06.07	307+54.36	LT		138.3	10
U-6	103	307+59.36	308+79.76	LT		110.4	10
U-8	103	308+84.76	30+40.46 (€ R/W 25TH ST NW)	LT		201.3	10
U-9	103	30+45.46 (€ R/W 25TH ST NW)	31+33.15 (€ R/W 25TH ST NW)	LT		77.7	10
U-10	103	31+25.00 (€ R/W 25TH ST NW)	30+37.23 (€ R/W 25TH ST NW)	RT		77.8	10
U-12	103	30+32.44 (€ R/W 25TH ST NW)	313+41.52	LT		224.6	10
U-13	104	313+46.52	40+35.26 (€ R/W 24TH ST NW)	LT		39.7	10
U-13A	104	40+35.26 (€ R/W 24TH ST NW)	41+75.00 (€ R/W 24TH ST NW)	LT		136.5	10
U-14	104	41+75.00 (€ R/W 24TH ST NW)	40+33.93 (€ R/W 24TH ST NW)	RT		124.1	10
U-15	104	314+18.62	316+62.12	LT		238.0	10
U-16	105	316+67.11	50+30.90 (€ R/W 23RD ST NW)	LT		15.9	10
U-16A	105	50+30.90 (€ R/W 23RD ST NW)	50+75.00 (€ R/W 23RD ST NW)	LT		34.1	10
U-17	105	50+75.00 (€ R/W 23RD ST NW)	50+44.79 (€ R/W 23RD ST NW)	RT		20.2	10
U-20	105	50+39.83 (€ R/W 23RD ST NW)	320+57.05	LT		340.5	10
U-20A	106	320+61.97	61+15.00 (€ R/W 22ND ST NW)	LT		106.4	
U-29A	106	61+15.00 (€ R/W 22ND ST NW)	321+15.27	RT		92.3	
U-29	106	321+15.27	325+26.17	LT		400.9	10
U-29B	107	325+31.15	80+50.00 (€ R/W 21ST ST NW)	LT		45.5	
U-33A	107	80+50.00 (€ R/W 21ST ST NW)	325+88.47	RT		27.7	
U-33	107	325+88.47	329+19.63	LT	321.2		10
U-34	108	329+24.33	100+31.98 (€ R/W 19TH ST NW)	LT	11.0		10
U-34A	108	100+31.98 (€ R/W 19TH ST NW)	100+50.00 (€ R/W 19TH ST NW)	LT	8.0		10
U-34B	108	100+50.00 (€ R/W 19TH ST NW)	101+11.94 (€ R/W 19TH ST NW)	LT		61.9	
U-38A	108	100+49.69 (€ R/W 19TH ST NW)	101+00.00 (€ R/W 19TH ST NW)	RT		50.3	
U-38	108	100+49.69 (€ R/W 19TH ST NW)	332+67.59	RT/LT	307.7		10
U-39	109	332+72.59	120+35.20 (€ R/W 17TH ST NW)	LT		14.6	10
U-39A	109	120+35.20 (€ R/W 17TH ST NW)	120+75.00 (€ R/W 17TH ST NW)	LT		29.8	10
U-40	109	120+75.00 (€ R/W 17TH ST NW)	120+30.54 (€ R/W 17TH ST NW)	RT		34.5	10
U-42	109	120+25.54 (€ R/W 17TH ST NW)	335+17.51	RT/LT		201.4	10
U-42A	109	335+22.49	130+75.00 (€ R/W 16TH ST NW)	LT		67.95	
U-47	109	130+75.00 (€ R/W 16TH ST NW)	338+70.67	RT/LT		341.2	10
U-48	110	338+75.19	140+31.29 (€ R/W 15TH ST NW)	LT		5.8	10
U-48A	110	140+31.29 (€ R/W 15TH ST NW)	141+26.01 (€ R/W 15TH ST NW)	LT		84.7	10
U-19A	110	140+75.00 (€ R/W 15TH ST NW)	140+35.55 (€ R/W 15TH ST NW)	RT		29.5	10
U-19	110	140+35.55 (€ R/W 15TH ST NW)	339+15.29	RT/LT		10.1	10
U-49	110	339+15.29	341+98.54	LT		273.3	10
U-52	112	342+77.55	343+30.79	LT		43.2	10
U-88	112	343+35.79	343+92.63	LT	46.8		10
U-88A	112	343+92.63	344+88.57	LT	85.9		10
U-94	112	344+88.57	346+15.18	LT		116.6	10
U-94A	112	346+15.18	346+78.27	LT		53.1	10
U-54	112	346+83.27	349+11.62	LT		218.4	10
U-56	113	350+26.12	351+33.46	LT		97.3	10
SUBTOTALS					780.7	4630.0	380.0
SUBTOTALS CARRIED TO RIGHT COLUMNS					780.7	4630.0	380.0

REF. NO.	SHEET NO.	STATION (ALL STATIONS ARE BASED OFF € CONST WOOSTER RD W U.N.O.)		SIDE	605	605	611
		FROM	TO		6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
					FT	FT	FT
U-56A	114	351+33.46	352+00.00	LT		56.5	10
U-59	114	352+05.00	170+21.33 (€ R/W 9TH ST NW)	LT		333.4	10
U-65	115	170+21.33 (€ R/W 9TH ST NW)	170+32.92 (€ R/W 9TH ST NW)	LT		2.7	10
U-65A	115	170+32.92 (€ R/W 9TH ST NW)	170+50.00 (€ R/W 9TH ST NW)	LT		7.1	10
U-65B	115	170+50.00 (€ R/W 9TH ST NW)	171+00.00 (€ R/W 9TH ST NW)	LT		50.9	
U-68A	115	171+00.00 (€ R/W 9TH ST NW)	355+90.00	RT/LT		90.5	
U-68	115	355+95.00	358+31.36	LT		226.4	10
U-68B	115	358+31.36	190+75.00 (€ R/W 8TH ST NW)	LT		126.9	
U-71A	116	190+75.00 (€ R/W 8TH ST NW)	190+42.00 (€ R/W 8TH ST NW)	RT		23.0	10
U-71	116	190+42.00 (€ R/W 8TH ST NW)	359+66.48	RT/LT		29.3	10
U-74	116	359+66.48	362+10.31	LT		234.0	10
U-91	116	362+14.81	200+32.26 (€ R/W 7TH ST NW)	LT		5.5	10
U-91A	116	200+32.26 (€ R/W 7TH ST NW)	200+95.00 (€ R/W 7TH ST NW)	LT		53.0	10
U-92A	116	200+95.00 (€ R/W 7TH ST NW)	200+32.26 (€ R/W 7TH ST NW)	RT		53.0	10
U-92	116	362+71.67	200+32.26 (€ R/W 7TH ST NW)	RT/LT		8.4	10
U-78	117	362+82.22	365+32.18	LT		240.0	10
U-80	117	365+36.86	210+32.94 (€ R/W 6TH ST NW)	LT		8.5	10
U-80A	117	210+32.94 (€ R/W 6TH ST NW)	211+16.45 (€ R/W 6TH ST NW)	LT		73.7	10
U-81A	117	210+90.00 (€ R/W 6TH ST NW)	210+32.94 (€ R/W 6TH ST NW)	LT	47.3		10
U-81	117	210+32.94	366+05.81	LT	20.0		10
U-84	117	366+05.81	367+58.68	LT	142.9		10
U-84A	118	367+58.68	368+02.00	LT	33.3		10
U-82	118	368+07.00	368+71.00	LT	54.0		10
U-86	118	368+76.00	230+29.10	LT	415.8		10
U-2A	101	8+87.34 (€ R/W HUDSON RUN)	301+40.98	RT		91.7	
U-2	101	302+46.94	303+14.37	RT		57.4	10
U-22	102	303+19.37	303+61.21	RT		31.8	10
U-22A	102	303+61.21	303+95.00	RT		23.8	10
U-3	102	304+00.00	305+40.35	RT		130.3	10
U-4	102	305+45.35	307+53.90	RT		198.6	10
U-7	103	307+58.90	29+68.95 (€ R/W 25TH ST SW)	RT/LT		201.4	10
U-7A	103	29+68.95 (€ R/W 25TH ST SW)	29+25.00 (€ R/W 25TH ST SW)	LT		44.0	
U-11A	103	29+25.00 (€ R/W 25TH ST SW)	310+73.28	RT		127.9	
U-11	103	310+73.28	312+53.94	RT		171.0	10
U-11B	104	312+58.07	38+95.00 (€ R/W 24TH ST SW)	RT/LT		84.9	
U-18A	104	38+95.00 (€ R/W 24TH ST SW)	39+50.00 (€ R/W 24TH ST SW)	RT		55.0	
U-18	104	39+50.00 (€ R/W 24TH ST SW)	317+72.76	RT		492.6	10
U-18B	105	317+76.14	49+25.00 (€ R/W 23RD ST SW)	RT/LT		42.8	
U-21A	105	49+50.00 (€ R/W 23RD ST SW)	49+25.00 (€ R/W 23RD ST SW)	RT		25	
U-21	105	49+50.00 (€ R/W 23RD ST SW)	320+50.00	RT		265.4	10
U-24	106	320+55.00	69+64.76 (€ R/W LINDBERG ST)	RT/LT		227.6	10
U-24A	106	69+64.76 (€ R/W LINDBERG ST)	69+50.00 (€ R/W LINDBERG ST)	LT		55.1	
U-25	106	69+63.00 (€ R/W LINDBERG ST)	323+30.88	RT		21.4	10
SUBTOTALS					713.2	3970.5	320.0
SUBTOTALS CARRIED FROM LEFT COLUMNS					780.7	4630.0	380.0
TOTALS					1493.9	8601.0	700.0
TOTALS CARRIED TO SHEET 86					1494.0	8601.0	700.0

UNDERDRAIN SUBSUMMARY - 1 OF 2

SUM-WOOSTER RD W

CALCULATED  
 ESB  
 CHECKED  
 HEB

85  
 354



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REF. NO.	SHEET NO.	STATION (ALL STATIONS ARE BASED OFF & CONST WOOSTER RD W U.N.O.)		SIDE	605	605	611
		FROM	TO		6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
					FT	FT	FT
U-25A	106	69+58.00 (C R/W LINDBERG ST)	68+87.72 (C R/W LINDBERG ST)	RT		74.1	
U-27	106	323+30.88	325+38.77	RT		197.9	10
U-30	107	325+43.77	327+00.47	RT		146.7	10
U-30A	108	327+00.47	89+00.00 (C R/W 20TH ST SW)	RT/LT		69.2	10
U-31	108	89+00.00 (C R/W 20TH ST SW)	89+71.94 (C R/W 20TH ST SW)	RT		61.9	10
U-31A	108	89+71.94 (C R/W 20TH ST SW)	327+80.03	RT		18.7	10
U-35	108	327+80.03	330+84.59	RT		292.8	10
U-36	108	330+89.76	109+60.87 (C R/W 18TH ST SW)	RT/LT		42.3	10
U-36A	109	109+60.87 (C R/W 18TH ST SW)	108+59.27 (C R/W 18TH ST SW)	RT		91.6	10
U-37	109	108+75.00 (C R/W 18TH ST SW)	109+70.69 (C R/W 18TH ST SW)	RT		85.7	10
U-37A	109	109+70.69 (C R/W 18TH ST SW)	331+79.29	RT		19.2	10
U-41	109	331+79.29	334+94.88	RT		306.0	10
U-44	109	334+99.16	129+50.73 (C R/W 16TH ST SW)	RT/LT		11.4	10
U-44A	109	129+50.73 (C R/W 16TH ST SW)	129+00.00 (C R/W 16TH ST SW)	LT		53.9	10
U-46	109	129+00.00 (C R/W 16TH ST SW)	129+39.43 (C R/W 16TH ST SW)	RT		29.4	10
U-51	109	129+44.43 (C R/W 16TH ST SW)	342+12.00	RT		672.2	10
U-51A	0	342+12.00	342+48.31	RT		27.6	10
U-53	0	342+54.68	343+29.38	RT	64.7		10
U-93	112	343+34.38	343+92.63	RT		48.2	10
U-93A	112	343+92.63	344+88.57	RT		85.9	10
U-95	112	344+88.57	346+15.18	RT	116.6		10
U-95A	112	346+15.18	346+80.93	RT	55.8		10
U-55	112	346+85.93	349+11.62	RT		215.7	10
U-58	113	350+26.12	351+33.46	RT		97.3	10
U-58A	114	351+33.46	352+10.00	RT		66.5	10
U-61	114	352+15.00	159+67.06 (C R/W 10TH ST SW)	RT/LT		88.2	10
U-62	114	159+00.00 (C R/W 10TH ST SW)	159+62.23 (C R/W 10TH ST SW)	RT/LT	52.2		10
U-63	114	159+00.00 (C R/W 10TH ST SW)	159+67.75 (C R/W 10TH ST SW)	RT	57.8		10
U-63A	114	159+67.75 (C R/W 10TH ST SW)	159+83.28 (C R/W 10TH ST SW)	RT	6.3		10
U-64	114	353+48.05	357+89.89	RT		428.8	10
U-89	115	357+89.89	179+57.51 (C R/W STUVER PL)	RT/LT		10.6	10
U-89A	115	179+35.00 (C R/W STUVER PL)	179+57.51 (C R/W STUVER PL)	LT		12.5	10
U-90A	115	179+35.00 (C R/W STUVER PL)	179+54.99 (C R/W STUVER PL)	RT		10.0	10
U-90	115	179+54.99 (C R/W STUVER PL)	358+42.81	RT		22.0	10
U-72	115	358+42.81	361+84.84	RT		332.4	10
U-73	116	361+89.80	199+64.80 (C R/W 7TH ST SW)	RT		14.6	10
U-73A	116	199+20.00 (C R/W 7TH ST SW)	199+64.80 (C R/W 7TH ST SW)	LT		34.8	10
U-76A	116	199+20.00 (C R/W 7TH ST SW)	199+64.39 (C R/W 7TH ST SW)	RT		34.4	10
U-76	116	199+64.39 (C R/W 7TH ST SW)	362+55.27	RT		20.0	10
U-79	116	362+55.27	365+32.00	RT		266.7	10
U-23	117	365+37.00	209+66.00 (C R/W 6TH ST SW)	RT/LT		14.5	10
U-85	117	209+68.00 (C R/W 6TH ST SW)	367+58.68	RT	176.4		10
U-85A	118	367+58.68	368+01.98	RT	33.3		10
U-96	118	368+11.94	219+67.38 (C R/W 5TH ST SW)	RT/LT	12.0		10
U-96A	118	219+35.00 (C R/W 5TH ST SW)	219+67.38 (C R/W 5TH ST SW)	RT/LT	22.4		10
U-87B	118	219+35.00 (C R/W 5TH ST SW)	219+66.93 (C R/W 5TH ST SW)	RT		33.0	10
U-87A	118	219+66.93 (C R/W 5TH ST SW)	368+77.41	RT		10.0	10
U-87	118	368+77.41	229+61.02 (C R/W 4TH ST NW)	RT/LT		415.5	10
SUBTOTALS					597.5	4462.5	460.0
SUBTOTALS CARRIED TO RIGHT COLUMNS					597.5	4462.5	460.0

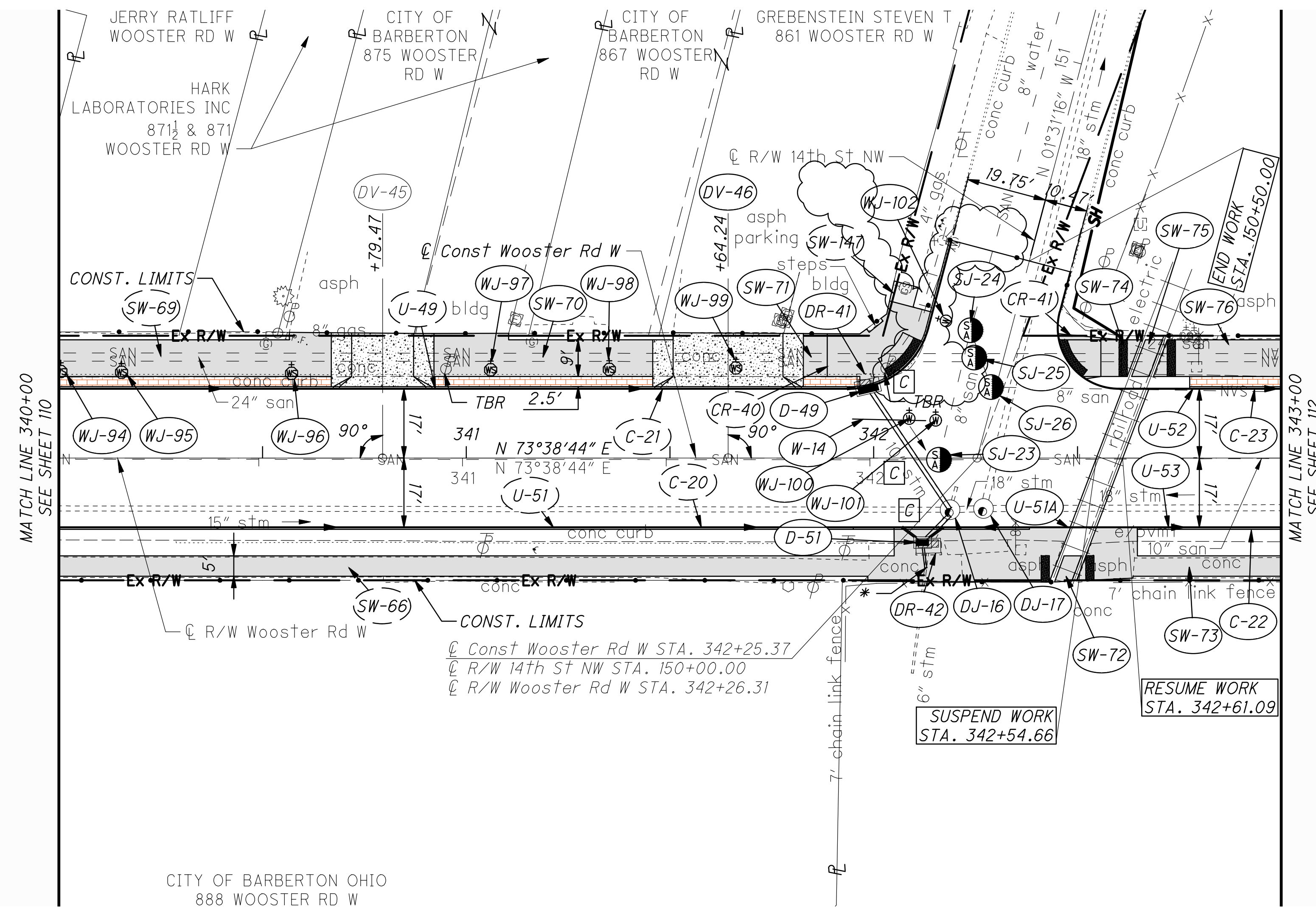
REF. NO.	SHEET NO.	STATION (ALL STATIONS ARE BASED OFF & CONST WOOSTER RD W U.N.O.)		SIDE	605	605	611
		FROM	TO		6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
					FT	FT	FT
U-26							
U-28							
U-32							
U-43							
U-45							
U-57							
U-60							
U-66							
U-67							
U-69							
U-70							
U-75							
U-77							
U-83							
SUBTOTALS							
SUBTOTALS CARRIED FROM LEFT COLUMNS					597.5	4462.5	460.0
TOTALS FROM SHEET 85					1494.0	8601.0	700.0
TOTALS					2091.5	13063.5	1160.0
TOTALS CARRIED TO GENERAL SUMMARY					2092	13064	1160

CALCULATED  
 ESB  
 CHECKED  
 HEB  
**UNDERDRAIN SUBSUMMARY - 2 OF 2**  
**SUM-WOOSTER RD W**  
 86  
 354

- A - 8" Type B
- B - 10" Type B
- C - 12" Type B
- D - 15" Type B
- E - 18" Type B
- F - 30" Type B
- G - 4" Type C
- H - 8" Type C
- I - 10" Type C
- J - 12" Type C

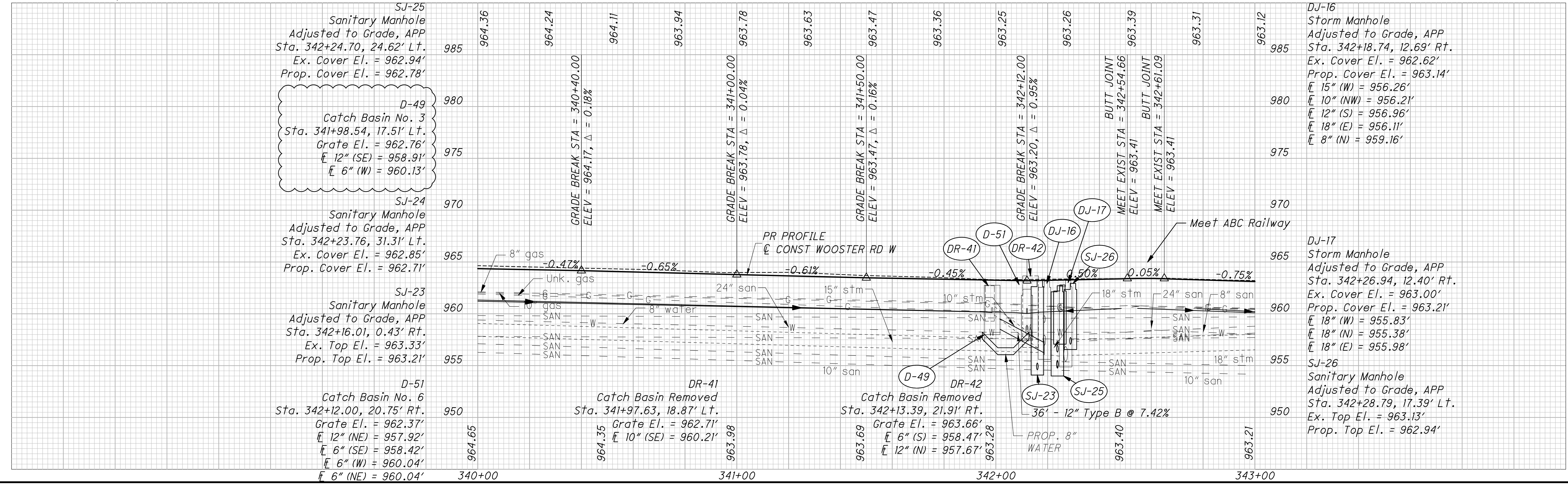
**HATCH LEGEND**

- ITEM 608 - 4" CONCRETE WALK
- ITEM 608 - WALKWAY MISC: DECORATIVE CONCRETE WALK
- ITEM 452 - 6" / 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS



CITY OF BARBERTON OHIO  
888 WOOSTER RD W

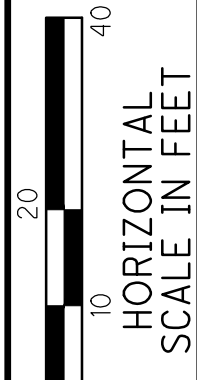
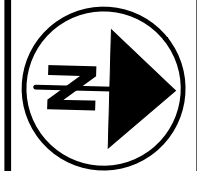
\* - MASONRY COLLAR PER DM-1.1  
FOR QUANTITIES, SEE SHEETS 69-91  
FOR SIDE STREET PLAN AND PROFILE, SEE SHEET 136  
FOR CROSS SECTIONS, SEE SHEETS 144-195  
FOR INTERSECTION DETAILS, SEE SHEETS 196-214  
FOR DRIVE DETAILS, SEE SHEETS 215-241



PLAN AND PROFILES - WOOSTER RD W  
STA. 340+00 TO STA. 343+00

SUM-WOOSTER RD W

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CALCULATED  
CHECKED

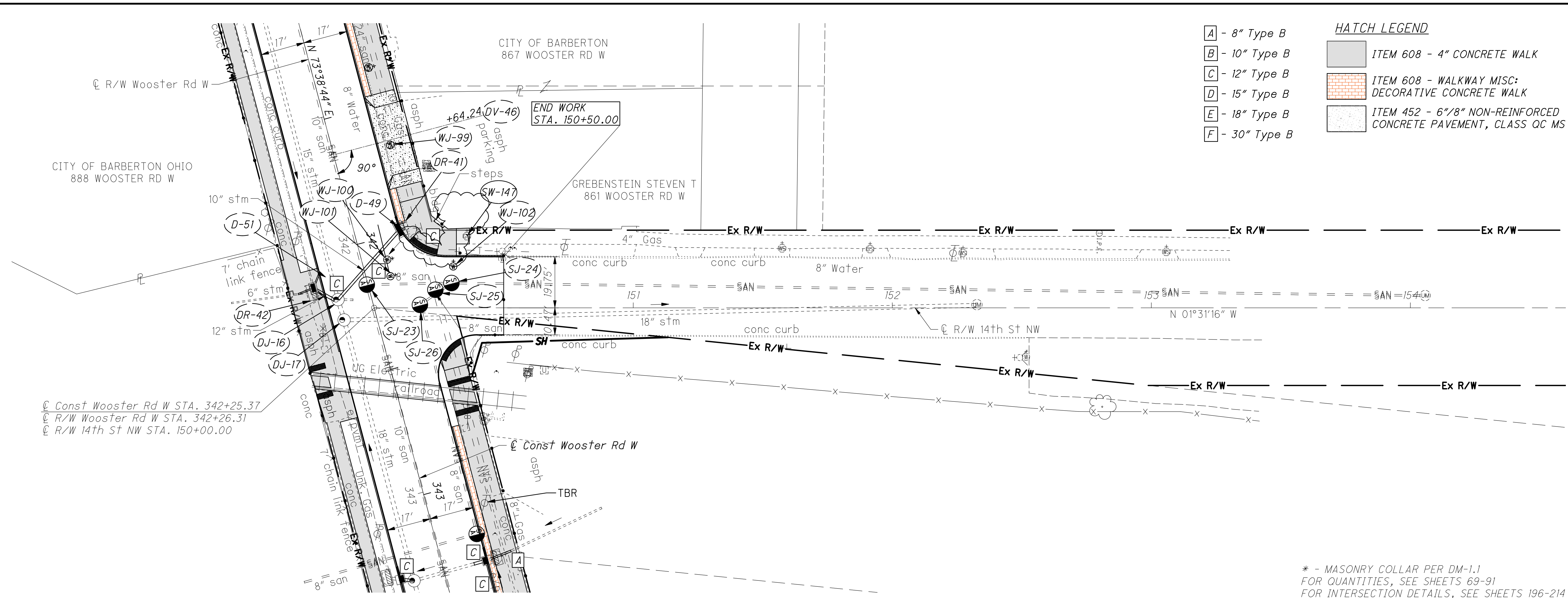
PLAN AND PROFILE - 14TH ST NW  
BEGIN TO END

SUM-WOOSTER RD W

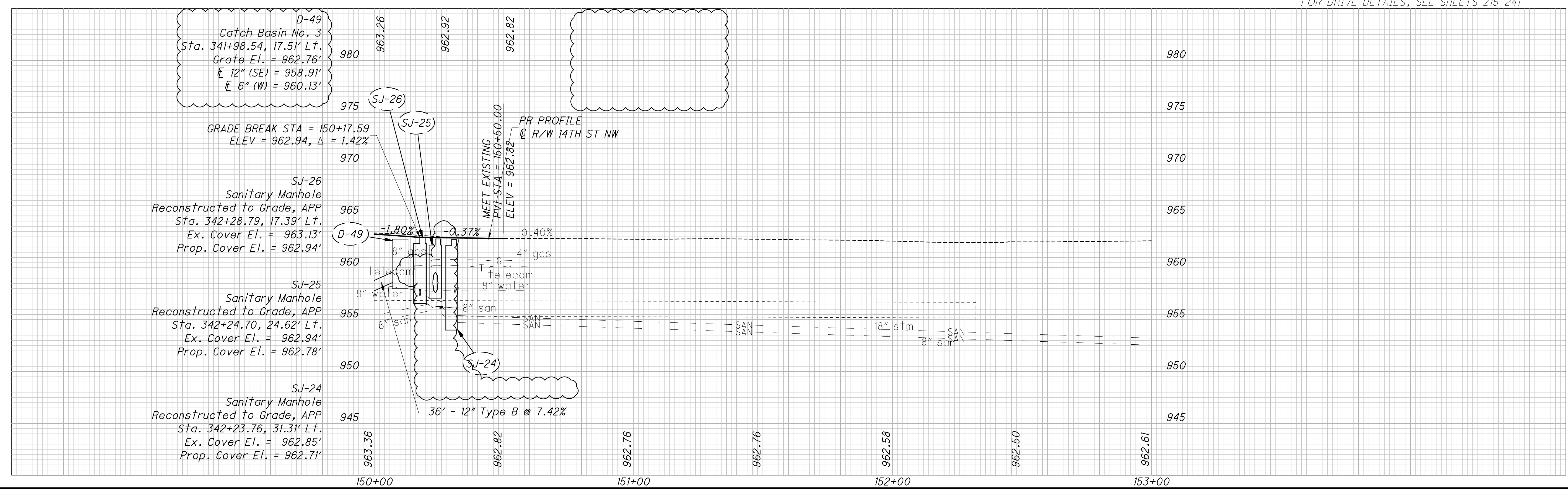
X / X

136  
354

- A - 8" Type B
  - B - 10" Type B
  - C - 12" Type B
  - D - 15" Type B
  - E - 18" Type B
  - F - 30" Type B
- HATCH LEGEND**
- ITEM 608 - 4" CONCRETE WALK
  - ITEM 608 - WALKWAY MISC: DECORATIVE CONCRETE WALK
  - ITEM 452 - 6 1/8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS

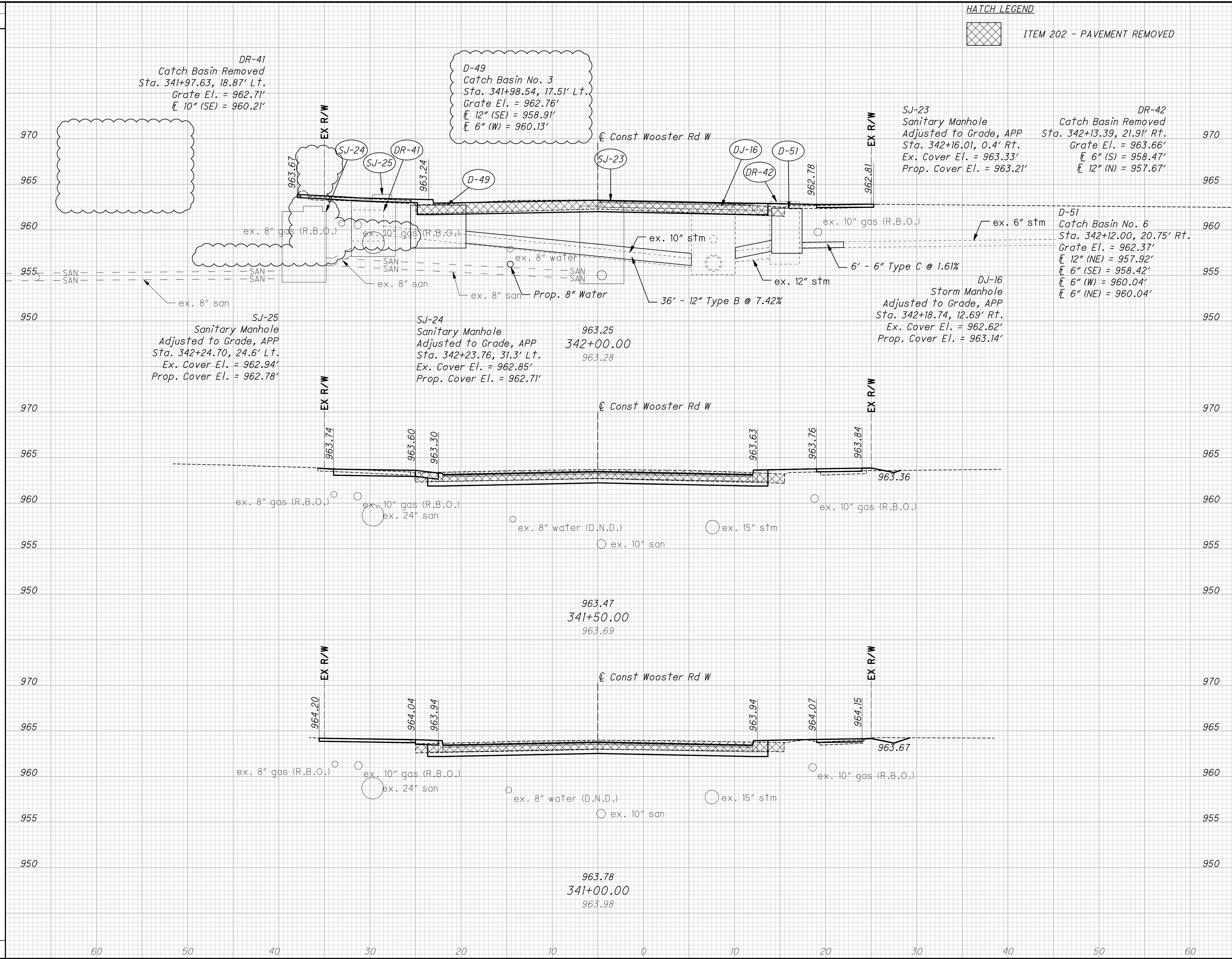


\* - MASONRY COLLAR PER DM-1.1  
 FOR QUANTITIES, SEE SHEETS 69-91  
 FOR INTERSECTION DETAILS, SEE SHEETS 196-214  
 FOR DRIVE DETAILS, SEE SHEETS 215-241



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SEEDING  
 END WIDTH SQ. YDS.  
 7  
 62  
 15  
 81  
 14  
 81  
 224



HATCH LEGEND  
 [Hatched Box] ITEM 202 - PAVEMENT REMOVED

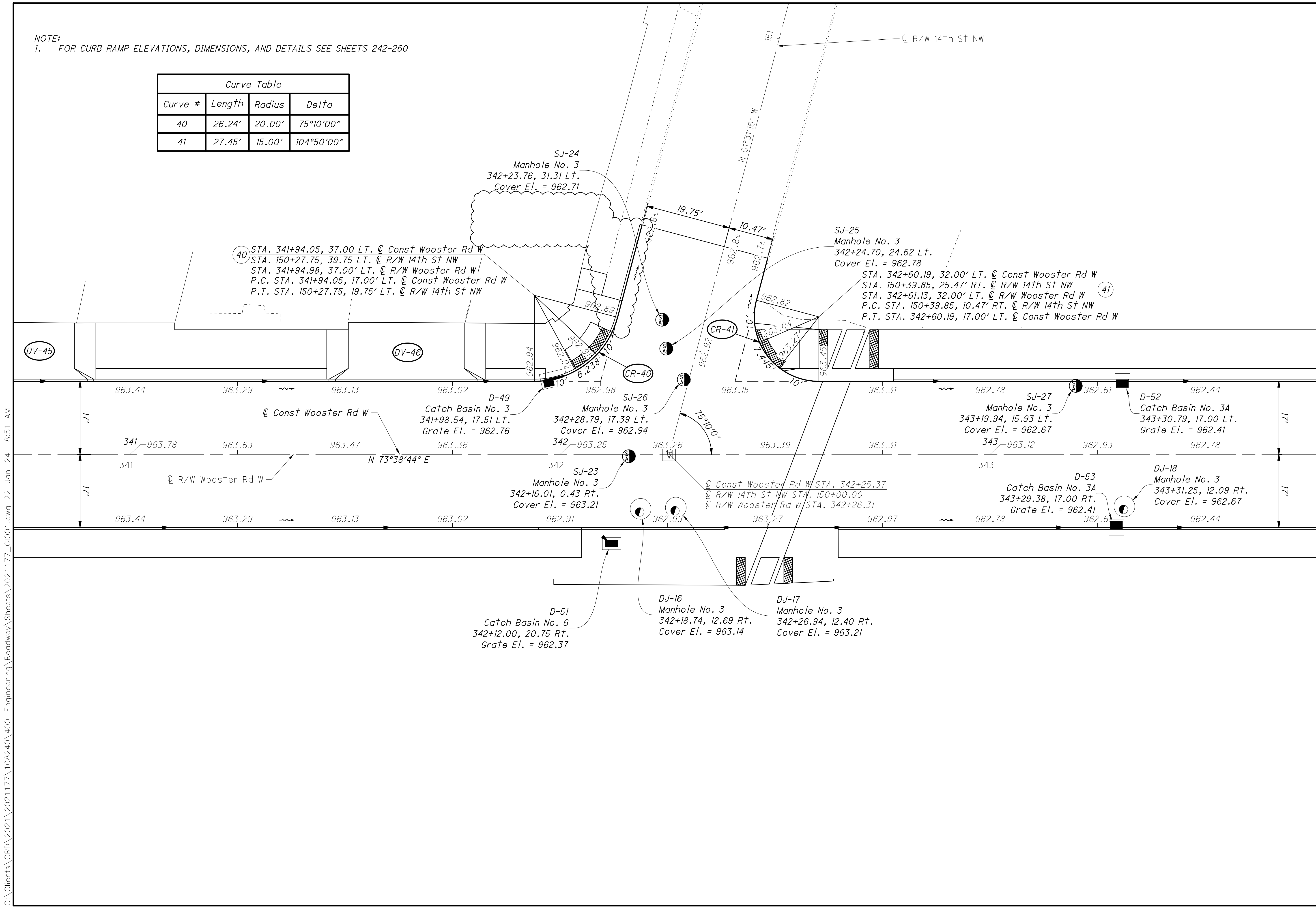
END AREA	VOLUME	CALCULATED	CHECKED	HEB
51	2			
65	1			
60	1			
98	7			

CROSS SECTIONS - WOOSTER RD W  
 STA. 341+00.00 TO STA. 342+00.00  
 SUM-WOOSTER RD W  
 173  
 354

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NOTE:  
 1. FOR CURB RAMP ELEVATIONS, DIMENSIONS, AND DETAILS SEE SHEETS 242-260

Curve Table			
Curve #	Length	Radius	Delta
40	26.24'	20.00'	75°10'00"
41	27.45'	15.00'	104°50'00"



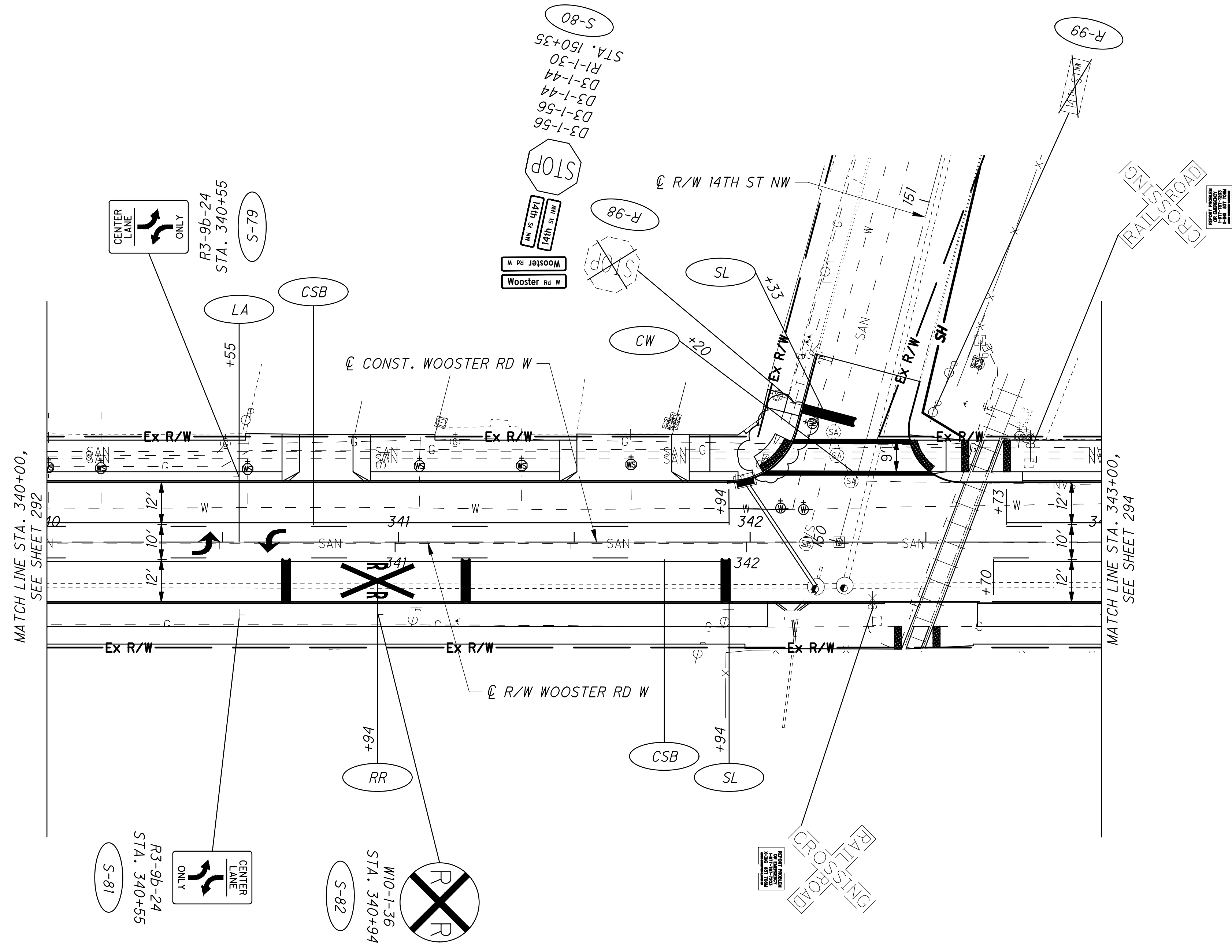
CALCULATED  
 CHECKED

0 10 20  
 HORIZONTAL  
 SCALE IN FEET

INTERSECTION DETAILS  
 WOOSTER RD W & 14TH ST NW

SUM-WOOSTER RD W

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CALCULATED 0  
 DLS  
 CHECKED AKF

0 20 40  
 HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL PLAN**  
**STA. 340+00 TO STA. 343+00**

**SUM-WOOSTER RD W**