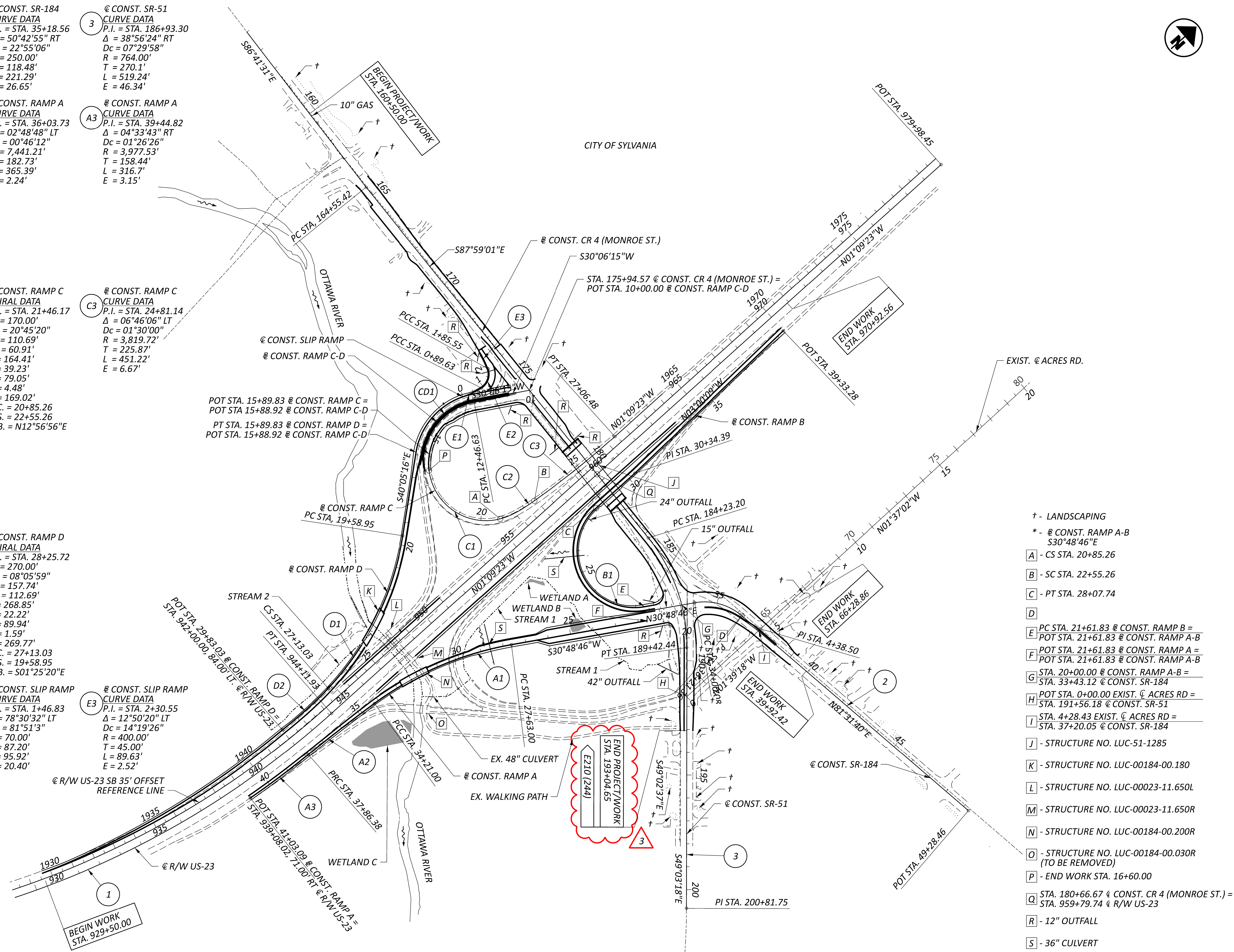
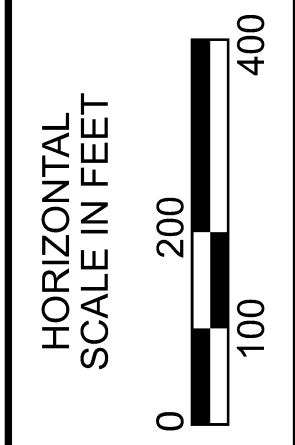
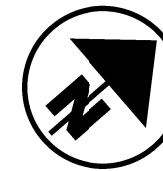


- 1 @ R/W US-23
CURVE DATA
P.I. = STA. 931+41.93
 $\Delta = 38^\circ 48' 30''$ LT
Dc = 01'28'00"
R = 3,906.53'
T = 1,376.03'
L = 2,646.02'
E = 235.26'
- 2 @ CONST. SR-184
CURVE DATA
P.I. = STA. 35+18.56
 $\Delta = 50^\circ 42' 55''$ RT
Dc = 22'55'06"
R = 250.00'
T = 118.48'
L = 221.29'
E = 26.65'
- 3 @ CONST. SR-51
CURVE DATA
P.I. = STA. 186+93.30
 $\Delta = 38^\circ 56' 24''$ RT
Dc = 07'29'58"
R = 764.00'
T = 270.1'
L = 519.24'
E = 46.34'
- A1 @ CONST. RAMP A
CURVE DATA
P.I. = STA. 30+97.91
 $\Delta = 26^\circ 19' 37''$ LT
Dc = 04'00'04"
R = 1,432.00'
T = 334.91'
L = 658.00'
E = 38.64'
- A2 @ CONST. RAMP A
CURVE DATA
P.I. = STA. 36+03.73
 $\Delta = 02^\circ 48' 48''$ LT
Dc = 00'46'12"
R = 7,441.21'
T = 182.73'
L = 365.39'
E = 2.24'
- A3 @ CONST. RAMP A
CURVE DATA
P.I. = STA. 39+44.82
 $\Delta = 04^\circ 33' 43''$ RT
Dc = 01'26'26"
R = 3,977.53'
T = 158.44'
L = 316.7'
E = 3.15'
- B1 @ CONST. RAMP B
CURVE DATA
P.I. = STA. 30+34.59
 $\Delta = 148^\circ 01' 53''$ RT
Dc = 22'55'06"
R = 250.00'
T = 872.76'
L = 645.91'
E = 657.86'
- C1 @ CONST. RAMP C
CURVE DATA
P.I. = STA. 19+71.47
 $\Delta = 113^\circ 32' 40''$ LT
Dc = 22'55'06"
R = 250.00'
T = 381.64'
L = 495.43'
E = 206.23'
- C2 @ CONST. RAMP C
SPIRAL DATA
P.I. = STA. 21+46.17
Ls = 170.00'
Os = 20'45'20"
LT = 110.69'
ST = 60.91'
x = 164.41'
y = 39.23'
k = 79.05'
p = 4.48'
C = 169.02'
S.C. = 20+85.26
C.S. = 22+55.26
C.B. = N12'56'56"E
- C3 @ CONST. RAMP C
CURVE DATA
P.I. = STA. 24+81.14
 $\Delta = 06^\circ 46' 06''$ LT
Dc = 01'30'00"
R = 3,819.72'
T = 225.87'
L = 451.22'
E = 6.67'
- CD1 @ CONST. RAMP C-D
CURVE DATA
P.I. = STA. 14+42.97
 $\Delta = 70^\circ 11' 31''$ LT
Dc = 20'30'23"
R = 279.40'
T = 196.34'
L = 342.29'
E = 62.09'
- D1 @ CONST. RAMP D
CURVE DATA
P.I. = STA. 23+47.42
 $\Delta = 33^\circ 56' 24''$ RT
Dc = 04'30'03"
R = 1,273.00'
T = 388.47'
L = 754.08'
E = 57.95'
- D2 @ CONST. RAMP D
SPIRAL DATA
P.I. = STA. 28+25.72
Ls = 270.00'
Os = 08'05'59"
LT = 157.74'
ST = 112.69'
x = 268.85'
y = 22.22'
k = 89.94'
p = 1.59'
C = 269.77'
S.C. = 27+13.03
C.S. = 19+58.95
C.B. = S01'25'20"E
- E1 @ CONST. SLIP RAMP
CURVE DATA
P.I. = STA. 0+45.00
 $\Delta = 12^\circ 50' 20''$ LT
Dc = 14'19'26"
R = 400.00'
T = 45.00'
L = 89.63'
E = 2.52'
- E2 @ CONST. SLIP RAMP
CURVE DATA
P.I. = STA. 1+46.83
 $\Delta = 78^\circ 30' 32''$ LT
Dc = 81'51'3"
R = 70.00'
T = 87.20'
L = 95.92'
E = 20.40'
- E3 @ CONST. SLIP RAMP
CURVE DATA
P.I. = STA. 2+30.55
 $\Delta = 12^\circ 50' 20''$ LT
Dc = 14'19'26"
R = 400.00'
T = 45.00'
L = 89.63'
E = 2.52'

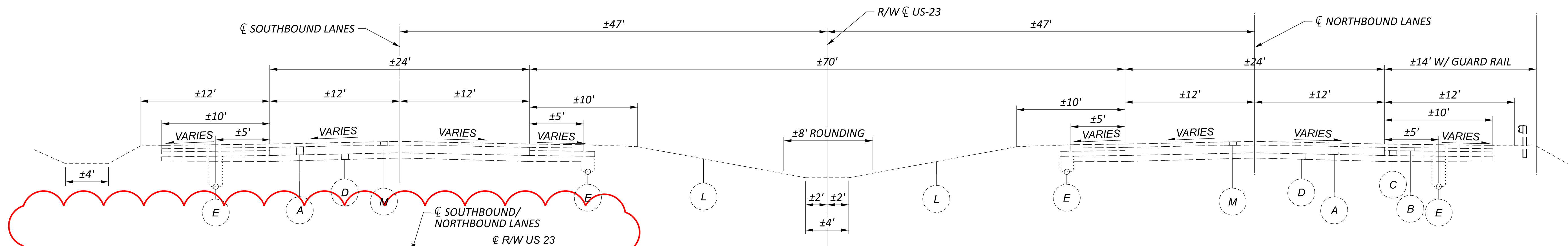


- + - LANDSCAPING
- * - @ CONST. RAMP A-B
S30'48'46"E
- A - CS STA. 20+85.26
- B - SC STA. 22+55.26
- C - PT STA. 28+07.74
- D - PC STA. 21+61.83 @ CONST. RAMP B =
POT STA. 21+61.83 @ CONST. RAMP A-B
- E - POT STA. 21+61.83 @ CONST. RAMP A =
POT STA. 21+61.83 @ CONST. RAMP A-B
- F - STA. 20+00.00 @ CONST. RAMP A-B =
STA. 33+43.12 @ CONST. SR-184
- G - POT STA. 0+00.00 EXIST. @ ACRES RD =
STA. 191+56.18 @ CONST. SR-51
- H - STA. 4+28.43 EXIST. @ ACRES RD =
STA. 37+20.05 @ CONST. SR-184
- I - J - STRUCTURE NO. LUC-51-1285
- K - STRUCTURE NO. LUC-00184-00.180
- L - STRUCTURE NO. LUC-00023-11.650L
- M - STRUCTURE NO. LUC-00023-11.650R
- N - STRUCTURE NO. LUC-00184-00.200R
- O - STRUCTURE NO. LUC-00184-00.030R
(TO BE REMOVED)
- P - END WORK STA. 16+60.00
- Q - STA. 180+66.67 @ CONST. CR 4 (MONROE ST.) =
STA. 959+79.74 @ R/W US-23
- R - 12" OUTFALL
- S - 36" CULVERT

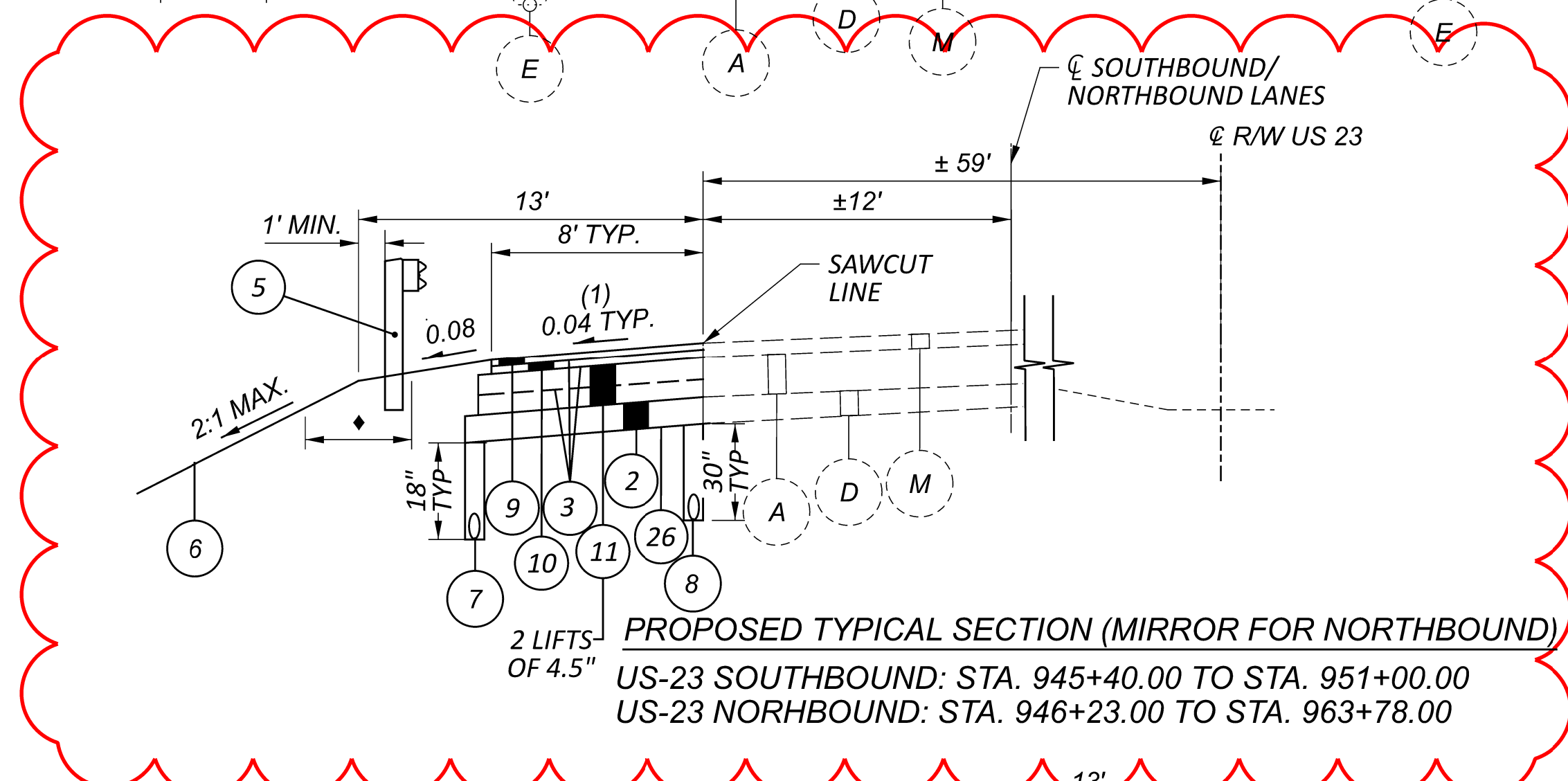


SCHEMATIC PLAN

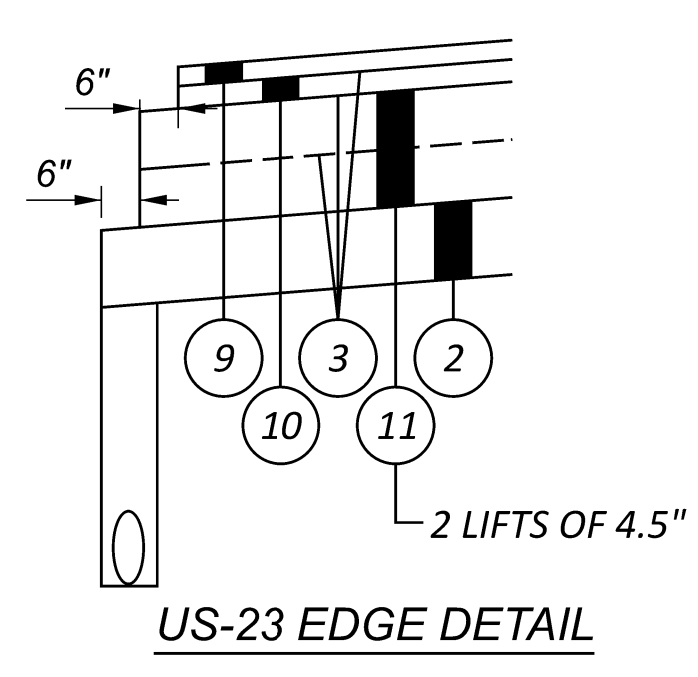
DESIGN AGENCY	
ARCADIS	
1111 SUPERIOR AVENUE SUITE 1300 CLEVELAND OHIO 44114 TEL: (216) 784-6777 www.arcadis.com	
DESIGNER	TB
REVIEWER	SMG
PROJECT ID	11/02/22
SHEET	105889
TOTAL	607



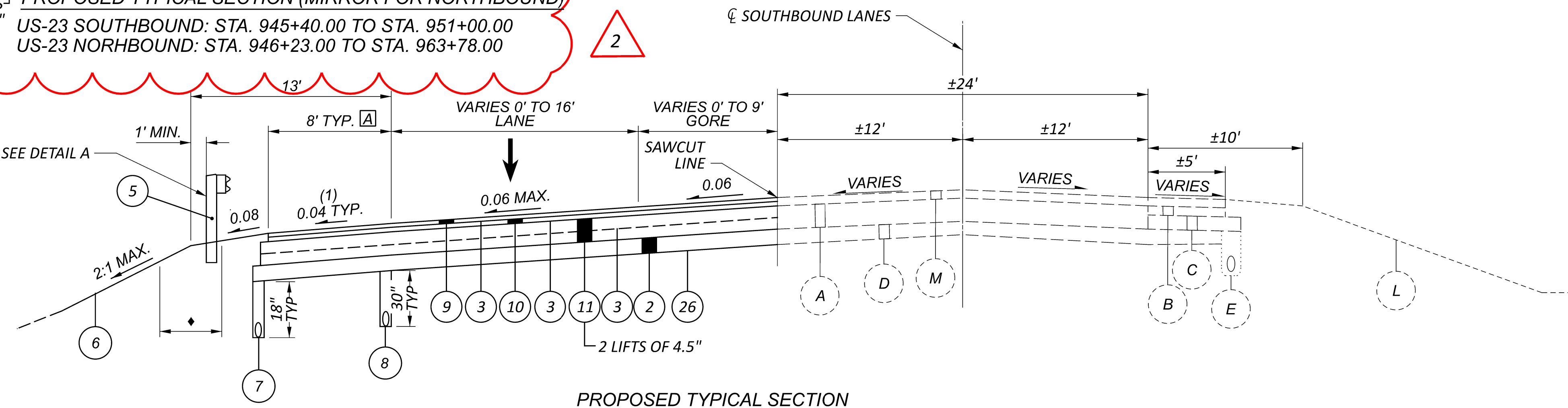
EXISTING TYPICAL SECTION
 US-23: STA. 929+50.00 TO STA. 970+00.00



PROPOSED TYPICAL SECTION (MIRROR FOR NORTHBOUND)
 US-23 SOUTHBOUND: STA. 945+40.00 TO STA. 951+00.00
 US-23 NORTHBOUND: STA. 946+23.00 TO STA. 963+78.00



US-23 EDGE DETAIL



PROPOSED TYPICAL SECTION
 US-23: STA. 929+50.00 TO STA. 942+00.00

[A] - US-23: STA. 929+50.00 TO STA. 930+50.00 VARIES 10.5' TO 8'

- EXISTING LEGEND **
- (A) CEMENT CONCRETE - 9"±
 - (B) CRASHED AGGREGATE BASE - 3"±
 - (C) AGGREGATE SHOULDER - 6"±
 - (D) SUBBASE - 6"±
 - (E) UNDERDRAIN
 - (F) CEMENT CONCRETE
 - (G) PAVED GUTTER
 - (H) EX. ASPHALT CONCRETE - 9"±
 - (I) EX. CONCRETE CURB
 - (J) EX. BRICK PAVERS
 - (K) EX. WALK
 - (L) SEEDING AND PROTECTING
 - (M) ASPHALT CONCRETE - 4"±

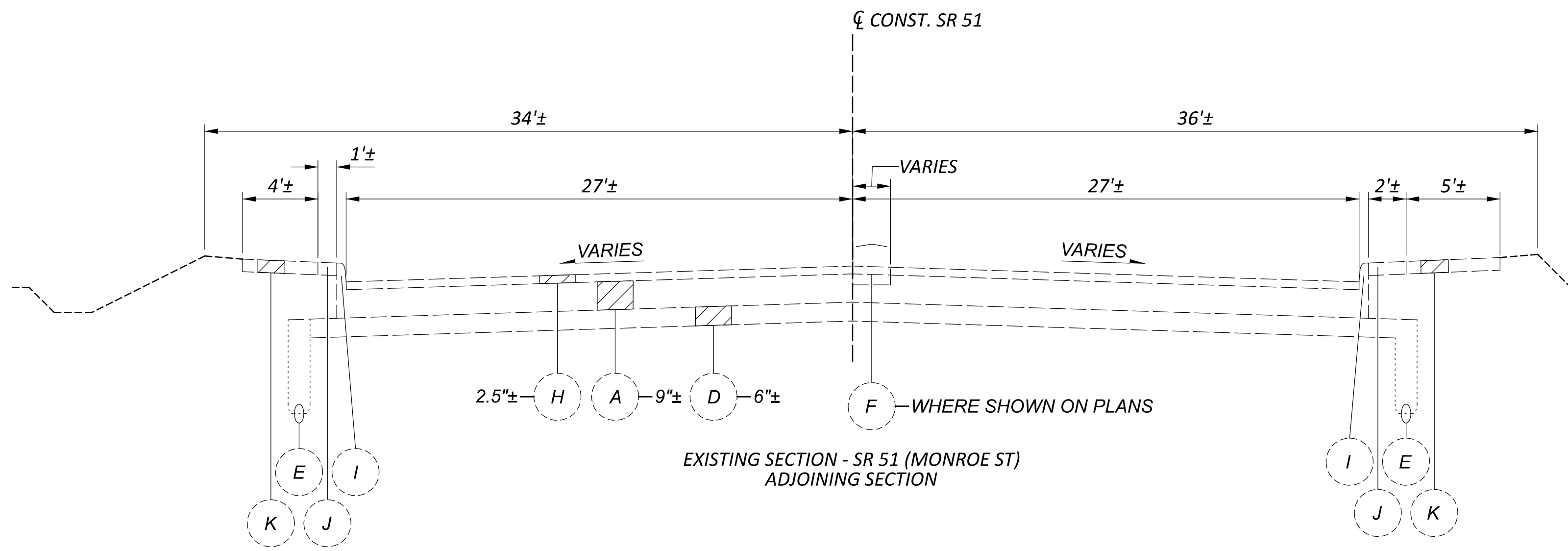
PROPOSED LEGEND **

- (1) ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 1P WITH QC/QA
- (2) ITEM 304 - 6" AGGREGATE BASE
- (3) ITEM 407 - NON-TRACKING COAT
- (4) ITEM 204 - SUBGRADE COMPACTION
- (5) ITEM 606 - GUARDRAIL, TYPE MGS
- (6) ITEM 659 - SEEDING AND MULCHING
- (7) ITEM 605 - 6" BASE PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC
- (8) ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC
- (9) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (446), PG64-22
- (10) ITEM 442 - 2 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A, (446)
- (11) ITEM 301 - 6" ASPHALT CONCRETE BASE, (449), PG64-22
- (12) ITEM 204 - EXCAVATION OF SUBGRADE
- (13) ITEM 609 - CURB, TYPE 6
- (14) ITEM 204 - GRANULAR MATERIAL, TYPE C
- (15) ITEM 204 - GEOTEXTILE FABRIC
- (16) ITEM 608 - 4" CONCRETE WALK
- (17) ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=17")
- (18) ITEM 609 - CURB, TYPE 4-A
- (19) ITEM 609 - 4" CONCRETE MEDIAN
- (20) ITEM 254 - PAVEMENT PLANNING, 1 1/2"
- (21) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
- (22) ITEM 608 - 6" CONCRETE WALK
- (23) ITEM 203 - EMBANKMENT
- (24) ITEM 202 - PAVEMENT REMOVED
- (25) ITEM 204 - GEOGRID
- (26) ITEM 206 - 12" CEMENT STABILIZATION
- (27) NOT USED
- (28) ITEM 609 - CURB, TYPE 6, AS PER PLAN
- (29) ITEM 203 - 18" ROADWAY, MISC.: SOIL MIX A
- (30) ITEM 203 - 6" ROADWAY, MISC.: SOIL MIX B
- (31) ITEM 204 - 18" GRANULAR MATERIAL, TYPE D
- (32) ITEM 204 - 6" GRANULAR MATERIAL, TYPE B

NOTES:

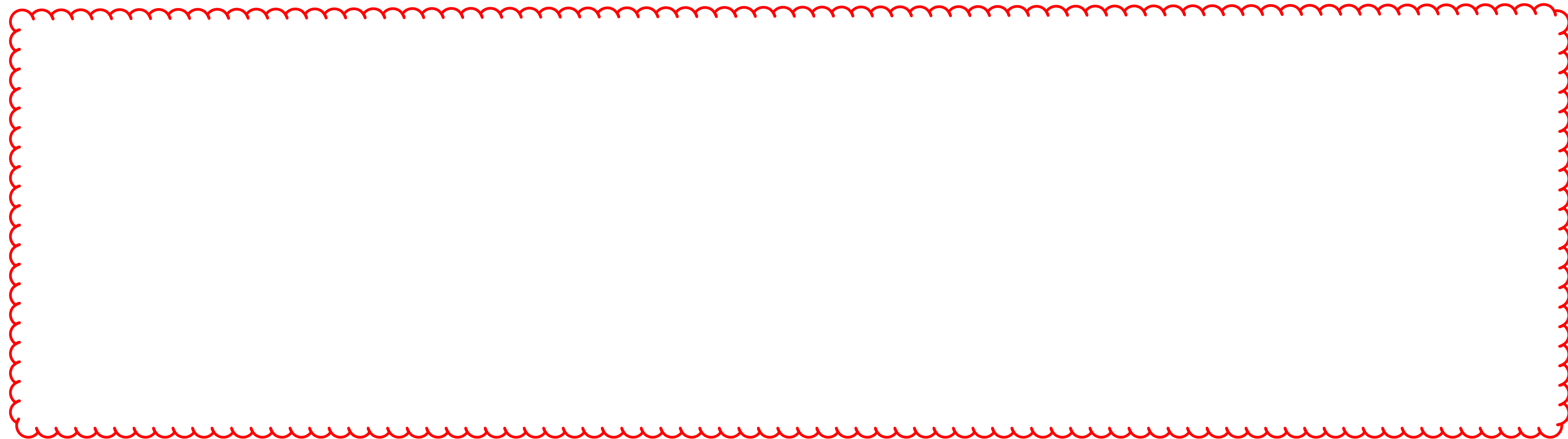
1. 0.04' TYPICAL SHOULDER CROSS SLOPE.
 - FOR >3% PVMT. SLOPE, SHOULDER CROSS SLOPE SHALL HAVE 7% MAX. BREAK ON HIGH SIDE
 - FOR >4% PVMT. SLOPE, SHOULDER CROSS SLOPE SHALL MATCH PVMT. SLOPE ON LOW SIDE
 SEE SHOULDER CROSS SLOPE DETAIL ON SHEET 13
2. SEE CROSS SECTIONS FOR GRADING DETAILS.
3. SEE ROADWAY PLAN AND PROFILE SHEETS FOR PROPOSED LIMITS OF GUARDRAIL.
4. FOR SUPERELEVATION LIMITS, SEE SHEETS 285 TO 288
5. ♦ - 4' ROUNDING
6. ALL TYPICAL SECTIONS ARE SHOWN GOING UP STATIONING.

** MATERIAL DEPTHS ARE AS SHOWN IN THE LEGEND UNLESS DIMENSIONED OTHERWISE ON SPECIFIC TYPICAL SECTIONS



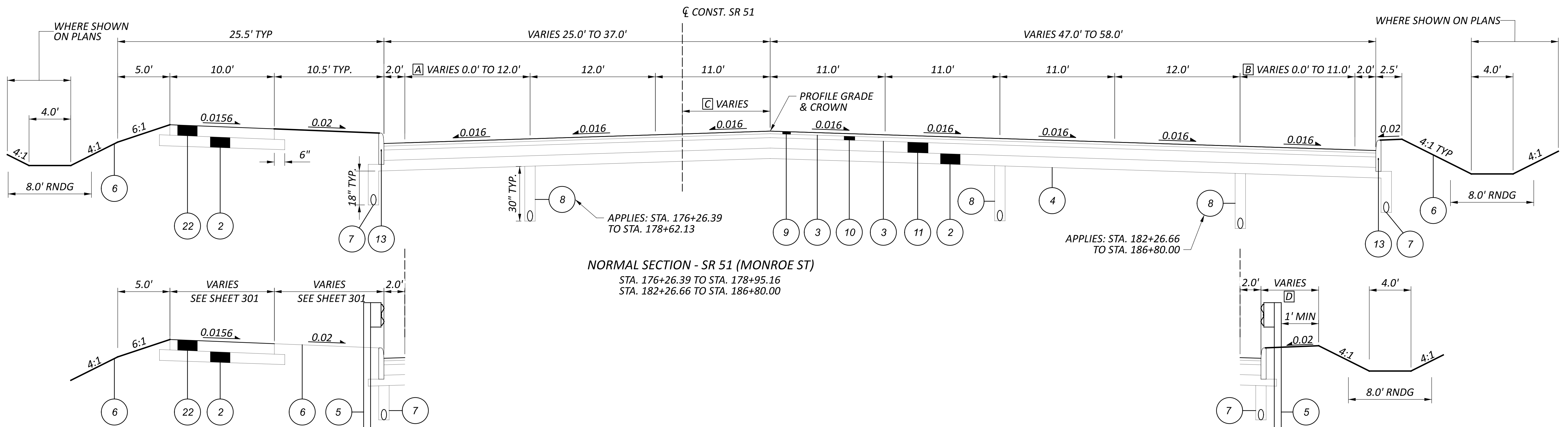
EXISTING SECTION - SR 51 (MONROE ST)
ADJOINING SECTION

- A** 12.0' FROM STA. 176+26.39 TO STA. 178+12.13
VARIES FROM 12.0' TO 0.0' FROM STA. 178+12.13 TO STA. 178+62.13
0.0' FROM STA. 178+62.13 TO STA. 178+95.16
0.0' FROM STA. 182+26.66 TO STA. 186+80.00
- B** 0.0' FROM STA. 176+26.39 TO STA. 178+95.16
VARIES FROM 0.0' TO 11.0' FROM STA. 182+29.95 TO STA. 182+79.95
11.0' FROM STA. 182+79.95 TO STA. 186+80.00
- C** 8.4' FROM STA. 176+26.39 TO STA. 178+95.16
8.4' FROM STA. 182+26.66 TO STA. 184+23.20
VARIES FROM 8.4' TO 0' FROM STA. 184+23.20 TO STA. 189+42.44
- D** VARIES FROM 2.5' TO 10.5' STA. 177+11.43 TO STA. 177+61.43
VARIES FROM 10.5' TO 3.5' STA. 177+61.43 TO STA. 177+98.93
3.5' FROM STA. 178+48.93 TO STA. 178+98.32

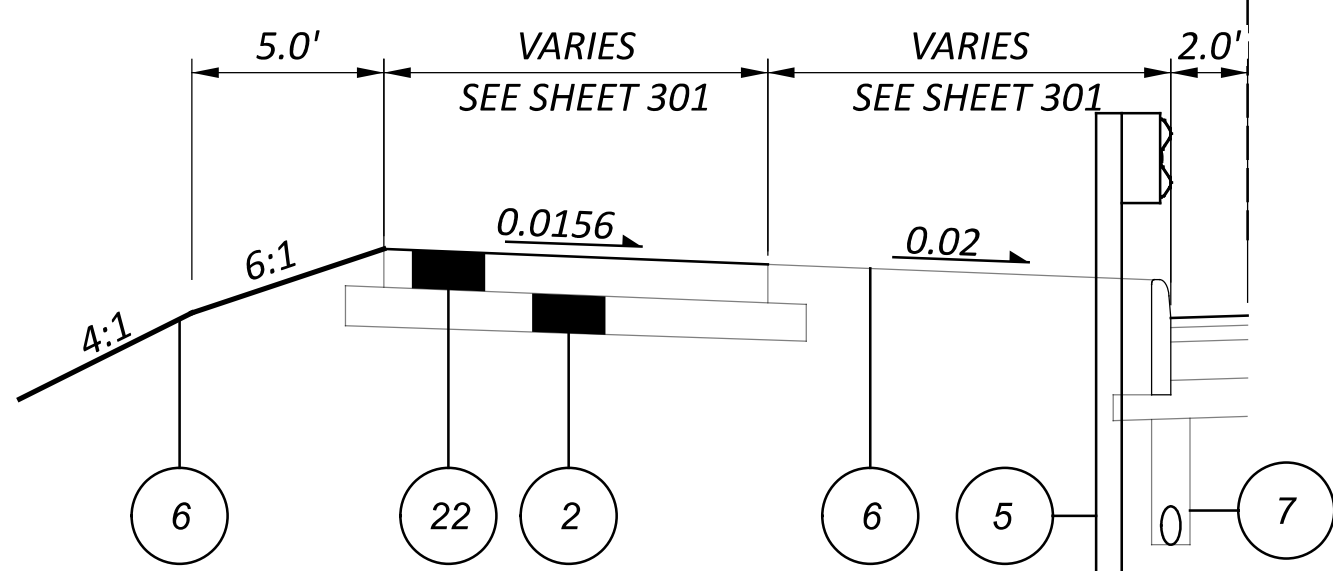


NOTES:

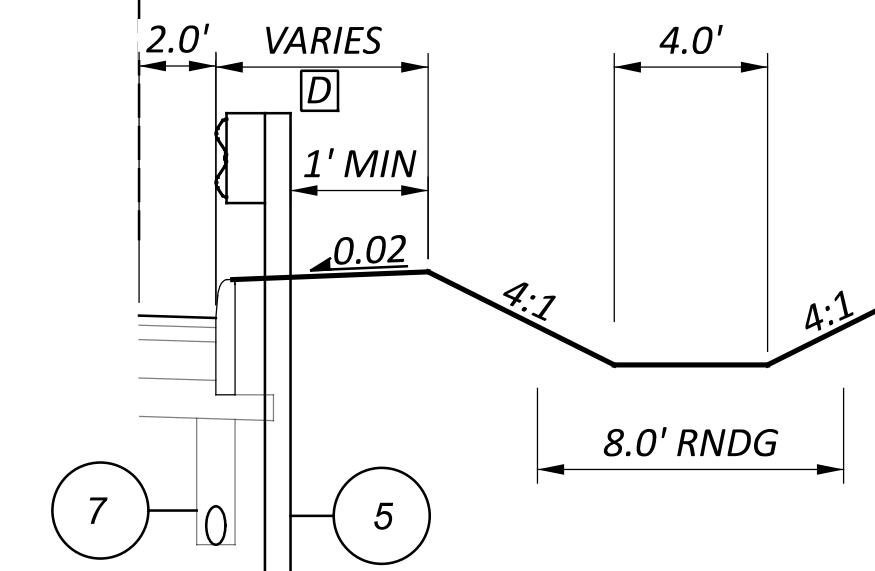
1. SEE CROSS SECTIONS FOR GRADING DETAILS.
2. FOR EXISTING LEGEND, SEE SHEET 3
3. FOR PROPOSED LEGEND, SEE SHEET 3



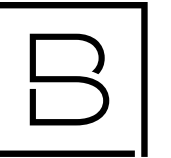
NORMAL SECTION - SR 51 (MONROE ST)
STA. 176+26.39 TO STA. 178+95.16
STA. 182+26.66 TO STA. 186+80.00



GUARDRAIL DETAIL
STA. 182+45.74 TO STA. 183+32.01



GUARDRAIL DETAIL
STA. 177+61.43 TO STA. 178+98.26



642-44 WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH CMS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY) WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER, THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS, AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS.
2. BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.
3. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.
4. BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.
5. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.
6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.
7. COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.
8. BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH CMS 614.03.
9. ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
10. ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.
11. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:
 - A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).
 - B. DAILY TTC SETUP AND REMOVAL.
 - C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.

- D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.
- E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.
- F. ALL OTHER EMERGENCY TTC NEEDS.

12. COMPLETE THE DEPARTMENT APPROVED (CA-D-8) WITHIN GOFORMZ AFTER EACH INSPECTION AS REQUIRED IN # 11 AND SUBMIT IT TO THE ENGINEER BY THE END OF THE WORKDAY IN WHICH THE INSPECTION OCCURRED. THE CA-D-8 INCLUDES A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. CONTACT GOFORMZ.HELP@DOT.OHIO.GOV TO OBTAIN A USER ACCOUNT. ANY DEFICIENCIES OBSERVED SHALL BE NOTED ON THE CA-D-8, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.
13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL DEDUCT:

- A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORIGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.
- B. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A FAILURE TO PERFORM WTS DUTIES REOCCURS OR A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.
- C. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS (AND ANY ALTERNATE WTS, IF APPLICABLE) SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPREQUALIFICATION@DOT.OHIO.GOV) TO REGISTER A REMOVAL AT THE PROJECT LEVEL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS (AND ALTERNATE WTS, IF APPLICABLE). ACCUMULATION OF THREE PROJECT LEVEL REMOVALS (FROM ANY PROJECTS STATEWIDE) SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY FORMERLY PREQUALIFIED WTS. A WTS (AND ALTERNATE WTS, IF APPLICABLE) MAY BE IMMEDIATELY AND CONCURRENTLY REMOVED FROM THE WORK AT THE PROJECT LEVEL IN ACCORDANCE WITH C&MS 108.05 AND DISQUALIFIED STATEWIDE FROM THE ODOT PREQUALIFIED WTS ROSTER (REGARDLESS OF THE NUMBER OF PROJECT LEVEL REMOVALS), AS WELL AS BEING SUBJECT TO OTHER POTENTIAL CONSEQUENCES, IN CASES OF FALSIFIED, DISHONEST OR OTHERWISE UNETHICAL ACTIVITY OR DOCUMENTATION.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

DESIGN AGENCY
ARCADIS
 1111 SUPERIOR AVENUE SUITE 1300
 CLEVELAND, OHIO 44114
 (216) 781-6177
 www.arcadis.com

DESIGNER
EJT

REVIEWER
TJR 09/13/24

PROJECT ID
105889

SHEET TOTAL
26A 607

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
22	24	19	127	139	134	135	138	317	406	409	Office Calc	01/NHS/21	02/S>2/04						
								DRAINAGE (CONT.)											
					2							2		611	98390	2	EACH	CATCH BASIN, NO. 7	
					3							2	1	611	98470	3	EACH	CATCH BASIN, NO. 2-2B	
					1							1		611	98540	1	EACH	CATCH BASIN, NO. 2-4	
					7							1	6	611	98630	7	EACH	CATCH BASIN ADJUSTED TO GRADE	19
					1							1	1	611	98635	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN	
						21						8	13	611	99574	21	EACH	MANHOLE, NO. 3	
						8						1	7	611	99654	8	EACH	MANHOLE ADJUSTED TO GRADE	
		2					26					28		611	99710	28	EACH	PRECAST REINFORCED CONCRETE OUTLET	
								PAVEMENT											
196	9,151										9,201	9,151	9,201	254	01000	18,352	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
											7,131	4,892	2,239	254	01001	196	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.5"	22
			284	46							9,714	7,513	2,531	301	56000	7,131	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
				10							4,344	2,135	2,219	304	20000	10,044	CY	AGGREGATE BASE	
				6									6	441	70500	6	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
				10									10	441	70700	10	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	
	373										1,946	1,359	960	442	10000	2,319	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
											2,317	1,479	838	442	10100	2,317	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
			6	260							18,465	18,465	266	452	12010	18,731	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
								WATER WORK											
												2	4	202	75510	6	EACH	VALVE BOX REMOVED	
											106	106		503	31100	106	CY	ROCK EXCAVATION	316
											20	20		638	01720	20	FT	8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	314
											366	344	22	638	02504	366	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, MECHANICAL JOINTS AND FITTINGS	314
											1,087	698	389	638	02730	1,087	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	314
											213	213		638	07310	213	FT	24" STEEL PIPE ENCASUREMENT, BORED OR JACKED	314
											1		1	638	07900	1	EACH	8" GATE VALVE AND VALVE BOX	314
											1			638	08100	1	EACH	12" GATE VALVE AND VALVE BOX	314
											2		1	638	09800	2	EACH	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX	314
											1			638	09908	1	EACH	16" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX	314
											4			638	10201	4	EACH	6" FIRE HYDRANT, AS PER PLAN	314
											5		4	638	10800	5	EACH	VALVE BOX ADJUSTED TO GRADE	
											3		3	SPECIAL	63820752	3	EACH	FIRE HYDRANT REMOVED FOR STORAGE, CITY OF SYLVANIA	314
											6		3	SPECIAL	63820880	6	EACH	CUT AND PLUG EXISTING 8" WATER LINE, CITY OF SYLVANIA	316
											3		2	638	98000	3	EACH	WATER WORK, MISC.: 2" BLOWOFF VALVE	314
											2		1	638	98000	2	EACH	WATER WORK, MISC.: 2.5" BLOWOFF VALVE	314
											4		3	638	98000	4	EACH	WATER WORK, MISC.: CONNECT TO EXISTING WATER MAIN	314
								SANITARY SEWER											
				15								3	12	611	99654	15	EACH	MANHOLE ADJUSTED TO GRADE (SANITARY)	
								LIGHTING											
											57	57		625	00450	57	EACH	CONNECTION, FUSED PULL APART	
											5	5		625	00460	5	EACH	CONNECTION, UNFUSED PULL APART	
											52	52		625	00480	52	EACH	CONNECTION, UNFUSED PERMANENT	
											5	5		625	10481	5	EACH	LIGHT POLE, AESTHETIC, AS PER PLAN, POST-TOP, WITH ENHANCED AESTHETIC FEATURES	406
											5	5		625	10481	5	EACH	LIGHT POLE, AESTHETIC, AS PER PLAN, A04B16, WITH ENHANCED AESTHETIC FEATURES	406
											9	9		625	10490	9	EACH	LIGHT POLE, CONVENTIONAL, AT15B40	
											7	7		625	10490	7	EACH	LIGHT POLE, CONVENTIONAL, AT20B40	
											400	6,062		625	23200	6,062	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
											400	400		625	23306	400	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
											3,333	3,333		625	23400	3,333	FT	NO. 10 AWG POLE AND BRACKET CABLE	
											5,755	5,755		625	24320	5,755	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
			92								100	122	92	625	25408	314	FT	CONDUIT, 2", 725.051	
											100	323		625	25504	423	FT	CONDUIT, 3", 725.051	
											432	432		625	25906	432	FT	CONDUIT, JACKED OR DRILLED, 725.051, 3"	
											16	16		625	26253	16	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, IES-II, 13,700-16,400 LUMENS	406
											5	5		625	27551	5	EACH	LUMINAIRE, DECORATIVE, AS PER PLAN, POST TOP, WITH BASELINE AESTHETIC FEATURES	406

GENERAL SUMMARY

DESIGN AGENCY
ARCADIS
 1975 HUNTINGTON PARK DR, STE 100
 COLUMBIA, PA 17512
 610-998-9100
 www.arcadis.com

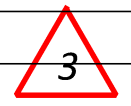
DESIGNER
 TT

REVIEWER
 SMC 09/13/24

PROJECT ID
 105889

SHEET TOTAL
 110 607

SHEET NUM.								PART.		ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
127	406	409	337	338	340	343		01/NHS/21	02/S>2/04	(X)		EXT	TOTAL			
		5						5			625	27551	5	EACH	LUMINAIRE, DECORATIVE, AS PER PLAN LED, POST-TOP LANTERN, ARM MOUNTED	406
	100	5,970						6,070			625	29002	6,070	FT	, 3000K, IES III, BLACK, W/AESTHETICS	
46		21						21	46		625	29100	46	FT	TRENCH, 24" DEEP	
		15						15			625	30706	21	EACH	TRENCH, 36" DEEP	
		1						1			625	32000	15	EACH	PULL BOX, 725.08, 24"	
46	100	5,970						6,070	46		625	34001	1	EACH	GROUND ROD	406
	LS							LS			625	36010	6,116	FT	POWER SERVICE, AS PER PLAN	
		6						6			625	39000	LS		UNDERGROUND WARNING/MARKING TAPE	
		2						2			625	75400	6	EACH	TEMPORARY LIGHTING	
		8						8			625	75500	2	EACH	LIGHT POLE FOUNDATION REMOVED	
	1							1			625	75506	8	EACH	LUMINAIRE REMOVED	
		1						1			625	75800	1	EACH	DISCONNECT CIRCUIT	
		1						1			625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL, DICONNECT SWITCH	
		1						1			625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL, ENCLOSURE	
		152						152			625	98100	152	FT	LIGHTING, MISC.:LIGHT POLE FOUNDATION, 24" DIAMETER	407
						5		5			503	31101	5	CY	ROCK EXCAVATION, AS PER PLAN	333
		37						37			620	06500	37	EACH	DELIMATOR, POST GROUND MOUNTED	
		637						319	318		621	00100	637	EACH	RPM	
		37							37		621	54000	37	EACH	RAISED PAVEMENT MARKER REMOVED	
						420		297	123		630	03101	420	FT	GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN	333
						487		140	47		630	04100	487	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
						43		43			630	07500	43	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X22	
						226		226			630	07600	226	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
						64		64			630	08100	64	FT	ONE WAY SUPPORT, NO. 4 POST	
						12			12		630	08520	12	FT	STREET NAME SIGN SUPPORT, NO. 3 POST	
						16		15	1		630	08601	16	EACH	SIGN POST REFLECTOR, AS PER PLAN	333
						10		10			630	09000	10	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
						1		1			630	72220	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-9.31, DESIGN 4	
						2			2		630	72320	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6	
						2		2			630	72330	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10	
						3		3			630	72340	3	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12	
						1		1			630	72520	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	
						2		2			630	72540	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12	
						5		3	2		630	72550	5	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	
						2		2			630	72560	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 14	
						13		5	8		630	75000	13	EACH	SIGN ATTACHMENT ASSEMBLY	
						7		3	4		630	79100	7	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
						2		2			630	79610	2	EACH	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED	
						973		726	247		630	80100	973	SF	SIGN, FLAT SHEET	
						344		344			630	80200	344	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
						2,004		1,643	361		630	80224	2,004	SF	SIGN, OVERHEAD EXTRUSHEET	
						5		2	3		630	80500	5	EACH	SIGN, DOUBLE FACED, STREET NAME	
						14		14			630	84500	14	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
						18		14	4		630	84511	18	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	333
					85			67	18		630	84900	85	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					3			3			630	85100	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
						8		8			630	85400	8	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
						4		4			630	85600	4	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	
						79		66	13		630	86002	79	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
						10		10			630	86102	10	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
						50		33	17		630	87400	50	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
						83		54	29		630	87500	83	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
						19		14	5		630	89702	19	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	
						38		38			630	97900	38	FT	SIGNING, MISC.:6"x8" SOLID WOOD POST	333
						1.6		0.59	1.01		630	95000	LS		SIGNING, MISC.:OVERHEAD SIGN SUPPORT PAINTING	333
											642	00100	1.6	MILE	EDGE LINE, 4", TYPE 1	



GENERAL SUMMARY

DESIGN AGENCY
ARCADIS
 1975 HUNTINGTON PARK BLVD, STE 100
 COLUMBIA, MO 65203
 (644) 982-9100
 www.arcadis.com

DESIGNER
 TT

REVIEWER
 SMG 09/13/24

PROJECT ID
 105889

SHEET TOTAL
 111 | 607

SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
384	383	391	392					01/NHS/21	02/S>2/04									
			8					8		632	64011	8	EACH	TRAFFIC SIGNALS (CONT.)				385
			2					2		632	64020	2	EACH	PEDESTAL FOUNDATION				
			2					2		632	70001	2	EACH	POWER SERVICE, AS PER PLAN				385
			2					2		632	72141	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN				385
			6					6		632	72151	6	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN				385
			2					2		632	89601	2	EACH	PEDESTAL, 8', AS PER PLAN				385
			2					2		632	90010	2	EACH	PEDESTAL, MISC.; PEDESTAL, 15', HL-10.12 POLE WITH HL-10.13 TRANSFORMER BASE				384
		2		1				1		632	90020	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTAL AND FOUNDATION				
			3					2	1	632	90101	3	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN				384
			1					1		632	90202	1	EACH	REUSE OF PEDESTRIAN SIGNAL HEAD				
			1					1		632	90210	1	EACH	REUSE OF PEDESTRIAN PUSHBUTTON				
LS								LS		632	90300	LS		SIGNALIZATION, MISC.:CORRIDOR TIMING PLAN IMPLEMENTATION				384
			2					2		633	65511	2	EACH	CABINET, TYPE TS-2, AS PER PLAN				385
			2					2		633	67101	2	EACH	CABINET FOUNDATION, AS PER PLAN				387
			2					2		633	67201	2	EACH	CONTROLLER WORK PAD, AS PER PLAN				387
			2					2		633	75001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN				388
2								2		633	99000	2	EACH	CONTROLLER ITEM, MISC.:REUSE OF FIELD MONITORING UNIT				384
			8					8		809	69101	8	EACH	STOP LINE RADAR DETECTION, AS PER PLAN				387
			2					2		809	69123	2	EACH	ATC CONTROLLER, AS PER PLAN				385
LS								LS		809	70000	LS		MAINTAINING ITS DURING CONSTRUCTION				383
			2					1	1	828	00110	2	EACH	LED BLANKOUT SIGN, (MMU/CMU COMPATIBLE), TYPE R3-1, SIZE 24" X 24"				388
		3												STRUCTURE REPAIR (SFN 4801261)				
														SEE SHEET 478 FOR ESTIMATED QUANTITIES				
														STRUCTURE REPAIR (SFN 4805135)				
														SEE SHEET 494 FOR ESTIMATED QUANTITIES				
														STRUCTURE OVER 20 FOOT SPAN (LUC-51-1285)				
														SEE SHEET 415-416 FOR ESTIMATED QUANTITIES				
														STRUCTURE OVER 20 FOOT SPAN (LUC-51-1285) (CONT.)				
														SEE SHEET 516 FOR ESTIMATED QUANTITIES				
														STRUCTURE OVER 20 FOOT SPAN (SFN 4805137)				
														SEE SHEET 494 FOR ESTIMATED QUANTITIES				
														STRUCTURE OVER 20 FOOT SPAN (SFN 4805136)				
														SEE SHEET 500 FOR ESTIMATED QUANTITIES				

GENERAL SUMMARY

DESIGN AGENCY
ARCADIS
 1975 HUNTINGTON PARK BLVD, STE 100
 COLUMBIA, MD 21046
 410.326.7000
 www.arcadis.com

DESIGNER
 TT

REVIEWER
 SMG 09/13/24

PROJECT ID
 105889

SHEET TOTAL
 113 | 607

SHEET NUM.				PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
22	23	24	46	01/NHS/21	02/S>2/04						
										MAINTENANCE OF TRAFFIC	
	300					614	11110	300	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		4,230				614	11630	4,230	FT	INCREASED BARRIER DELINEATION	
		18				614	12380	18	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
100						614	12600	100	EACH	REPLACEMENT DRUM	
		1,021				614	12800	1,021	EACH	WORK ZONE RAISED PAVEMENT MARKER	
	10					614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		784				614	13310	784	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
39						614	13312	39	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
		268				614	13350	268	EACH	OBJECT MARKER, ONE WAY	
192						614	18601	192	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	22
		1.52				614	20010	1.52	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
		1.51				614	21000	1.51	MILE	WORK ZONE CENTER LINE, CLASS I	
		11.1				614	22010	11.1	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
		17,051				614	23010	17,051	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"	
		4,345				614	24000	4,345	FT	WORK ZONE DOTTED LINE, CLASS I	
		828				614	25000	828	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
		406				614	26000	406	FT	WORK ZONE STOP LINE, CLASS I	
		118				614	30000	118	EACH	WORK ZONE ARROW, CLASS I	
	LS					615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
	196	6,207				615	20000	6,403	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
						616	10000	672	MGAL	WATER	
672		13,332				622	41100	13,332	FT	PORTABLE BARRIER, UNANCHORED	
		1				622	41060	1	EACH	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	
						LS	10000	LS		INCIDENTALS	
						LS	11000	LS		CPM PROGRESS SCHEDULE	
						614	11000	LS		MAINTAINING TRAFFIC	
						619	16021	18	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	20
						623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
						624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

1

DESIGN AGENCY
ARCADIS
 1575 HUNTINGTON PARK DR., STE 100
 COLLEGE PARK, MD 20740
 410.326.7423
 www.arcadis.com

DESIGNER
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REVIEWER
 SMG 09/13/24

PROJECT ID
 105889

SHEET TOTAL
 114 607

SHEET NO.	REFERENCE NO.	LOCATION	STATION TO STATION	SIDE	SIDE	602	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611		
						CONCRETE MASONRY	10" CONDUIT, TYPE F	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	15" CONDUIT, TYPE C	24" CONDUIT, TYPE B	27" CONDUIT, TYPE B	30" CONDUIT, TYPE B	36" CONDUIT, TYPE B	42" CONDUIT, TYPE B	42" CONDUIT, TYPE C	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 6	CATCH BASIN, NO. 7	CATCH BASIN, NO. 2-2B	CATCH BASIN, NO. 2-4	CATCH BASIN ADJUSTED TO GRADE		
						CY	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
153	SA-18	MONROE ST	191+56.84	LT	01/NHS/21																				
	SA-19	Not Used																							
155	SA-20	ALEXIS RD	34+15.37	RT	02/S>2/04																				
155	SA-21	ALEXIS RD	37+38.42		02/S>2/04																				
157	SA-22	ALEXIS RD	37+62.38	LT	02/S>2/04																				
159	SA-23	ACRES RD	61+29.68	LT	02/S>2/04																				
159	SA-24	ACRES RD	62+01.32	LT	02/S>2/04																				
CUMULATIVE TOTALS FROM PREVIOUS SHEETS						4	40	1449	1013	430	323	66	38	100	252	315	15	14	3	2	3	1	7		
TOTALS THIS SHEET																									
TOTALS CARRIED TO GENERAL SUMMARY						4	40	1449	1013	430	323	66	38	100	252	315	15	14	3	2	3	1	7		

3

3

DRAINAGE SUB-SUMMARY

DESIGN AGENCY
ARCADIS
 222 SOUTH MAIN STREET SUITE 200
 ARCON, OHIO 44808
 www.arcadis.com

DESIGNER
CRA

REVIEWER
SMG 09/13/24

PROJECT ID
105889

SHEET TOTAL
134 607

SHEET NO.	REFERENCE NO.	LOCATION	STATION TO STATION	SIDE	SPLIT	611	611	611																	
						MANHOLE, NO. 30	MANHOLE ADJUSTED TO GRADED	MANHOLE ADJUSTED TO GRADE (SANITARY)																	
						EACH	EACH	EACH																	
153	SA-18	MONROE ST	191+56.84		LT	01/NHS/21			1																
	SA-19	Not Used								3															
155	SA-20	ALEXIS RD	34+15.37		RT	02/S>2/04			1																
155	SA-21	ALEXIS RD	37+38.42			02/S>2/04			1																
157	SA-22	ALEXIS RD	37+62.38		LT	02/S>2/04			1																
159	SA-23	ACRES RD	61+29.68		LT	02/S>2/04			1																
159	SA-24	ACRES RD	62+01.32		LT	02/S>2/04			1																
CUMULATIVE TOTALS FROM PREVIOUS SHEETS							21	8	9																
TOTALS THIS SHEET									6																
TOTALS CARRIED TO GENERAL SUMMARY							21	8	15																

DRAINAGE SUB-SUMMARY

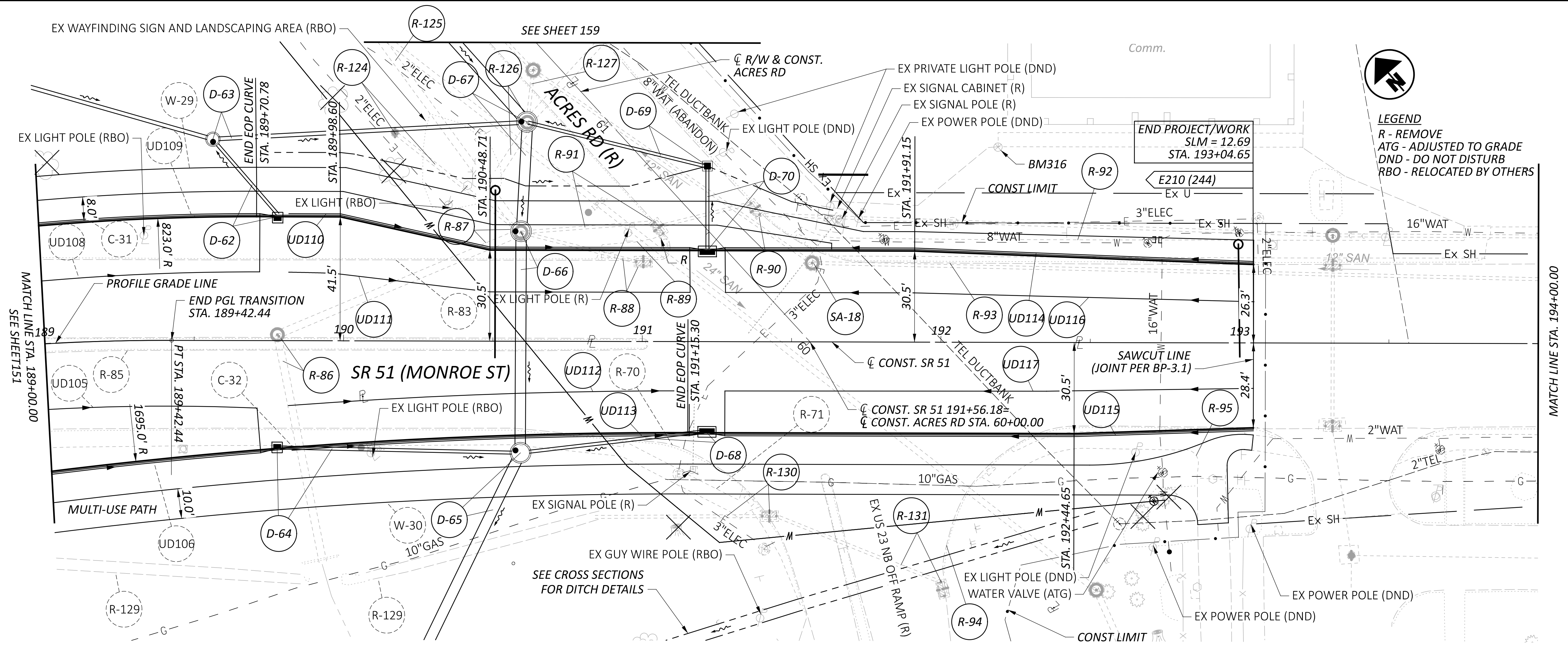
DESIGN AGENCY
ARCADIS
 222 SOUTH MAIN STREET SUITE 200
 ARCON, OHIO 44608
 www.arcadis.com

DESIGNER
CRA

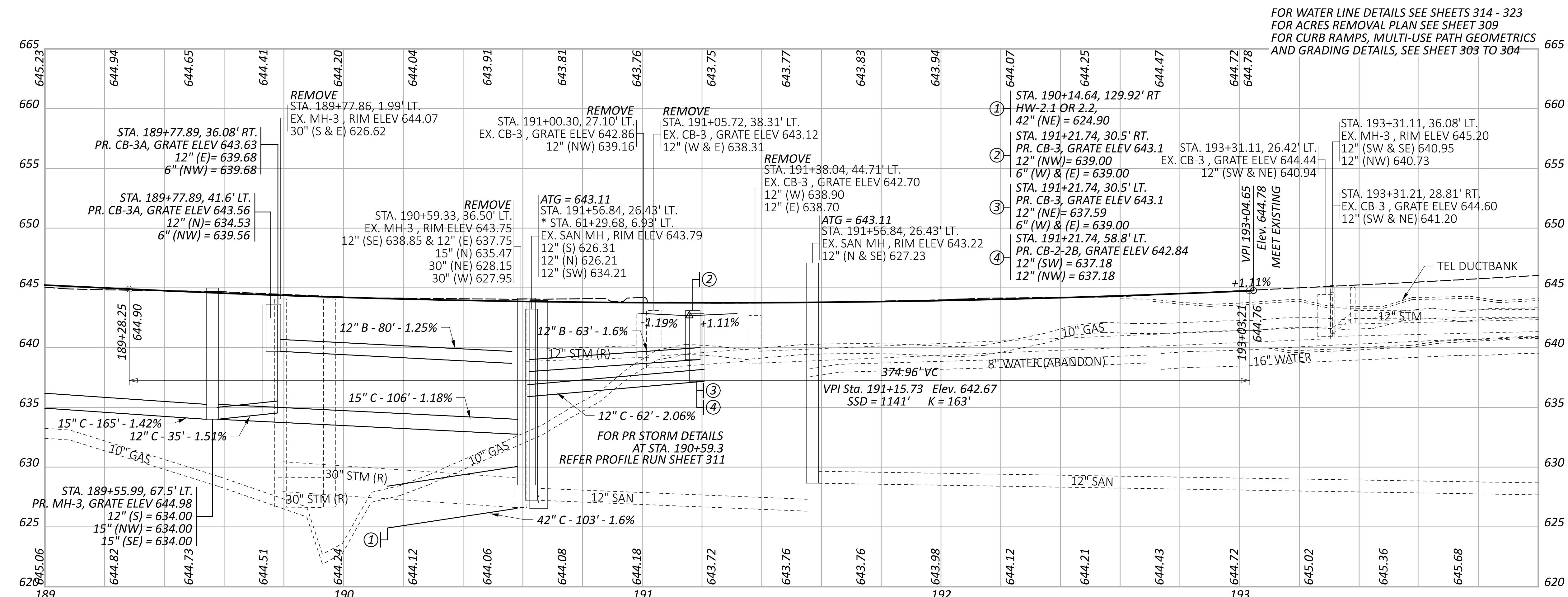
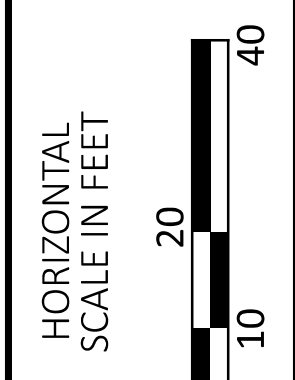
REVIEWER
SMG 09/13/24

PROJECT ID
105889

SHEET TOTAL
135 607



LEGEND
 R - REMOVE
 ATG - ADJUSTED TO GRADE
 DND - DO NOT DISTURB
 RBO - RELOCATED BY OTHERS



FOR WATER LINE DETAILS SEE SHEETS 314 - 323
 FOR ACRES REMOVAL PLAN SEE SHEET 309
 FOR CURB RAMPS, MULTI-USE PATH GEOMETRICS
 AND GRADING DETAILS, SEE SHEET 303 TO 304

**PLAN AND PROFILE - MONROE ST
 STA. 189+00 TO STA. 194+00**

DESIGN AGENCY

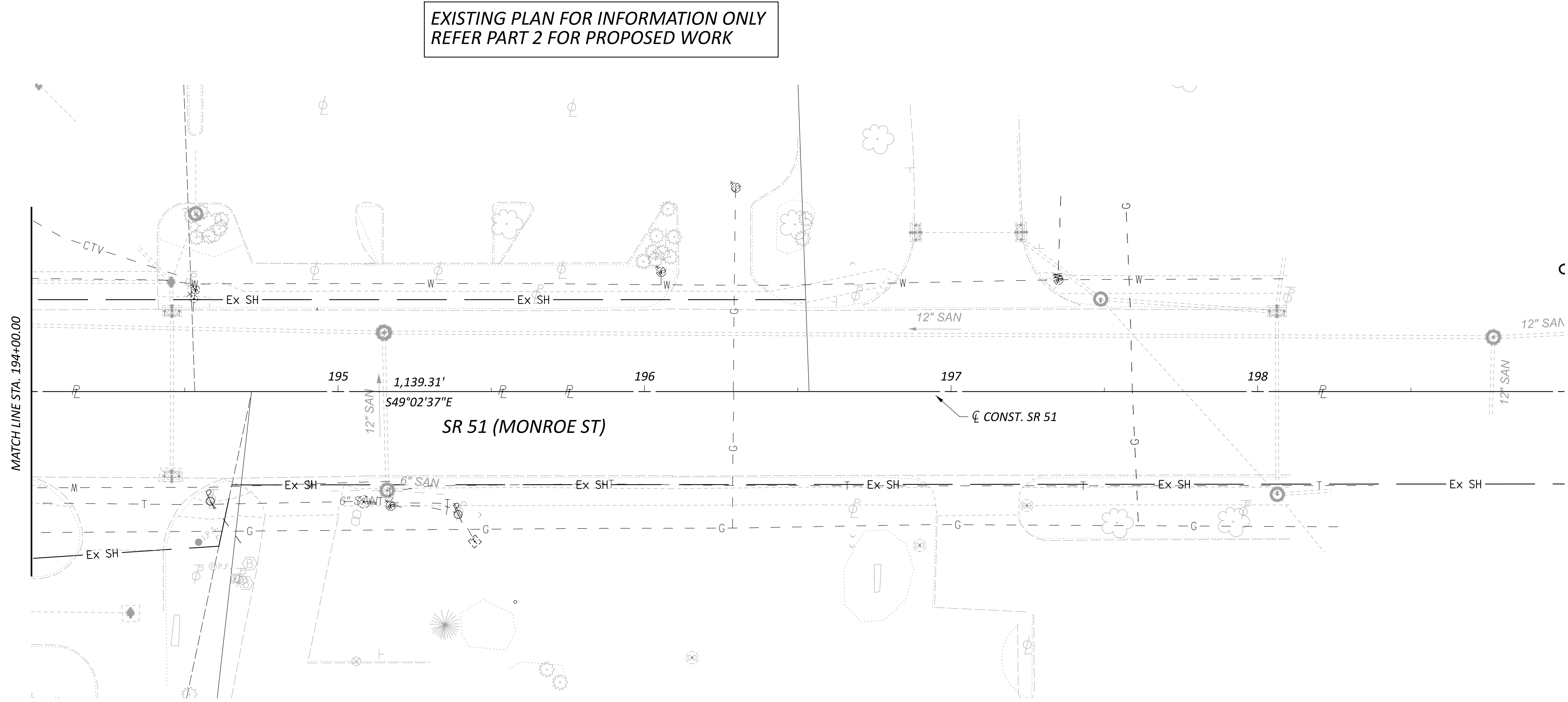
BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 540 BRIMFIELD BLVD, STE. C,
 WARREN, OH 43087

DESIGNER
 DTB

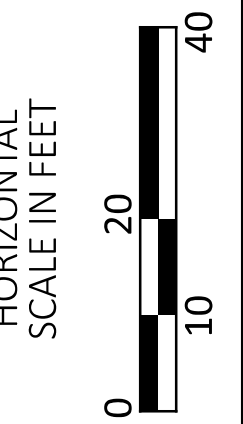
REVIEWER
 XF 09/13/24

PROJECT ID
 105889

SHEET TOTAL
 153 607



EXISTING PLAN FOR INFORMATION ONLY
REFER PART 2 FOR PROPOSED WORK



PLAN - MONROE ST
STA. 194+00 TO END

DESIGN AGENCY



BERGMANN
ARCHITECTS ENGINEERS PLANNERS
340 BRIMFIELD BLVD, STE. C,
WAMEGO, OH 43087

DESIGNER

DTB

REVIEWER

XF 09/13/24

PROJECT ID

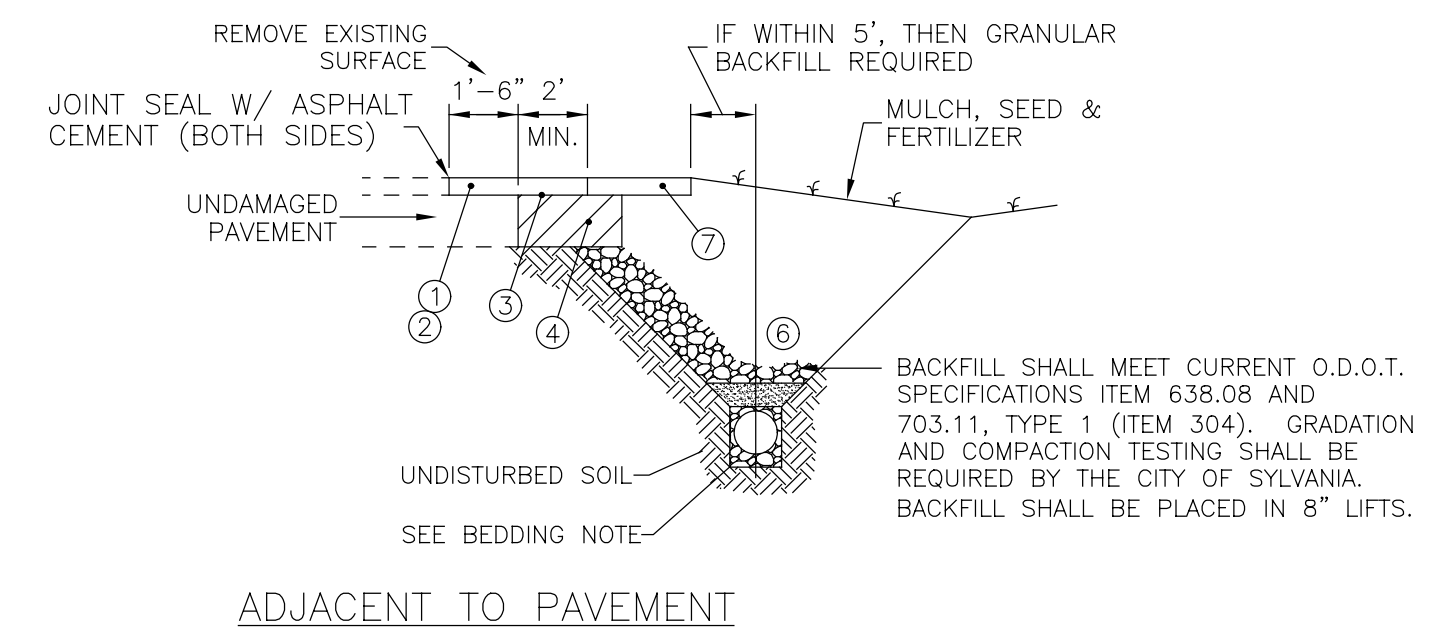
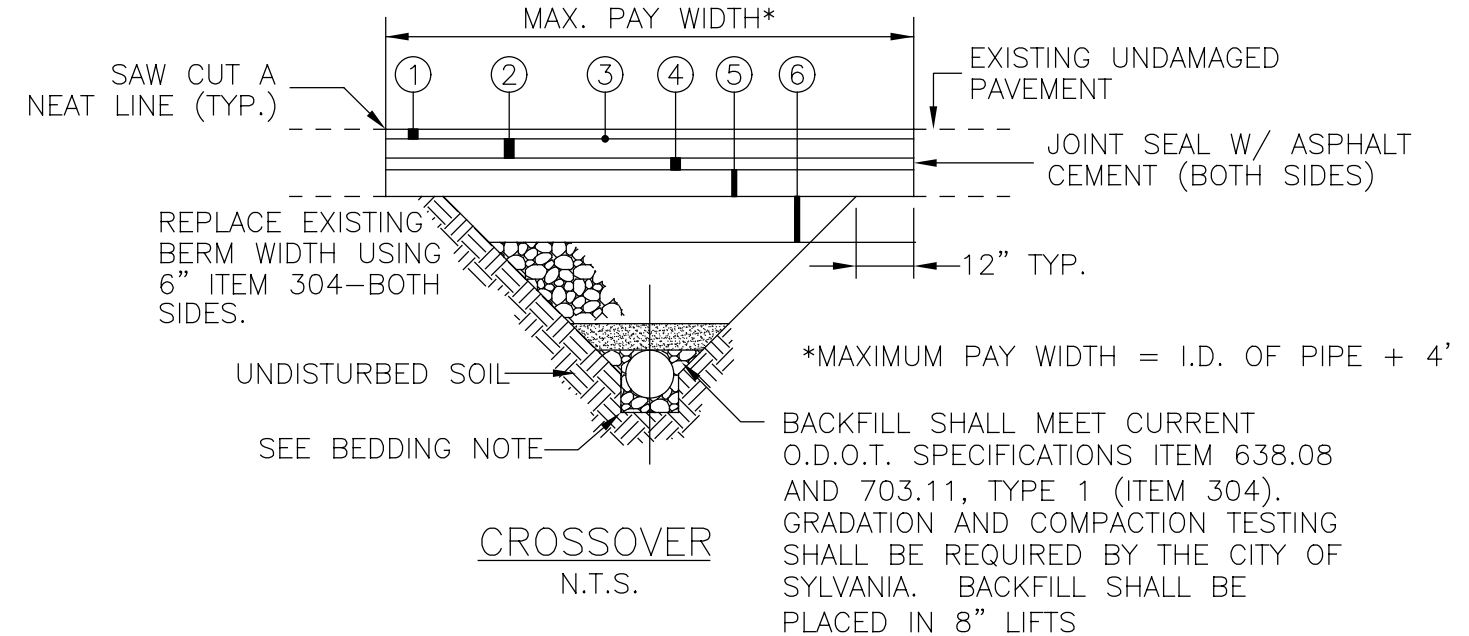
105889

SHEET TOTAL

154 | 607

-ALL DRIVE APPROACHES AND CROSS OVER PAVEMENT CUTS SHALL BE SAW CUT.
 -DRIVE REPLACEMENT SHALL BE FROM EDGE OF PAVEMENT TO BACK OF TRENCH.
 -CONSTRUCTION METHODS, EQUIPMENT AND MATERIALS PROPOSED FOR PAVEMENT RESTORATION SHALL BE APPROVED BY THE CITY OF SYLVANIA PRIOR TO BEGINNING THIS WORK.
 -WHERE THE EXISTING PAVEMENT SURFACE AND/OR BASE IS DAMAGED OR UNDERMINED AS DETERMINED BY THE ENGINEER, REPLACEMENT OR RESURFACING AS DETAILED BELOW SHALL BE REQUIRED.

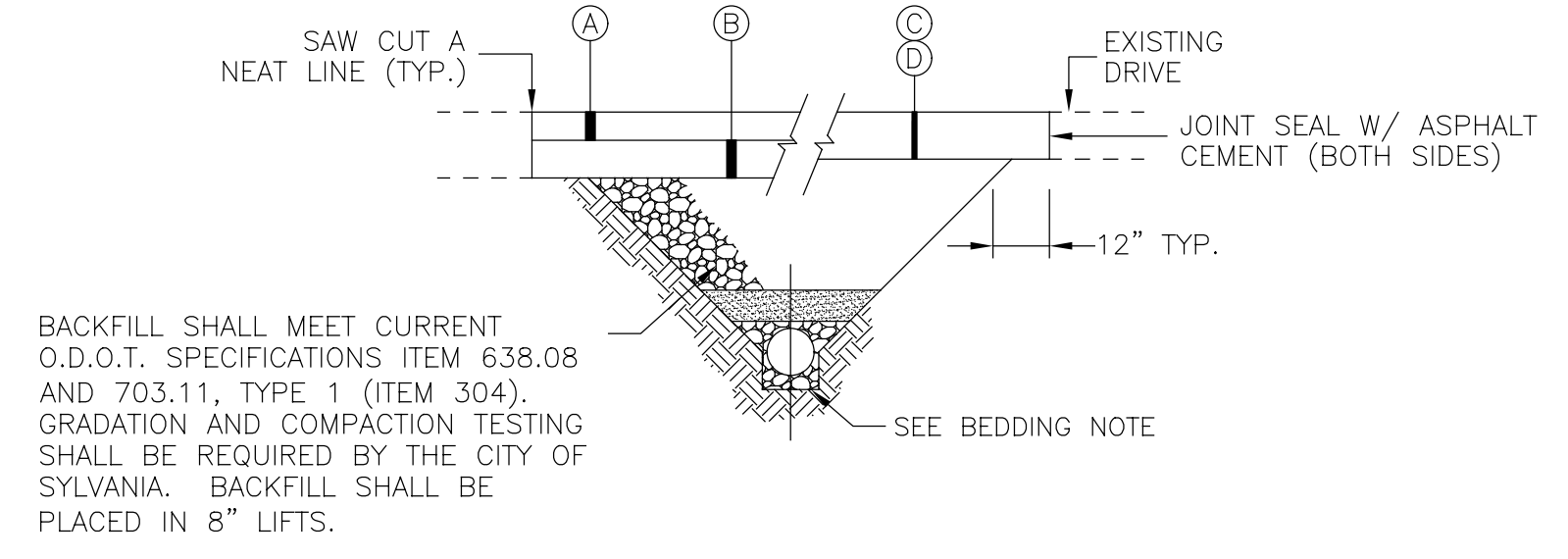
- ① 1 1/2" - ITEM 441 ~ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG 64-22
- ② 2 1/2" - ITEM 441 ~ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- ③ - ITEM 407 ~ TACK COAT (@ 0.055 GAL./SY.)
- ④ 5" - ITEM 302 ~ ASPHALT CONCRETE BASE, PG 64-22, (449)
- ⑤ 6" - ITEM 304 ~ AGGREGATE BASE
- ⑥ 12" - ITEM 304 ~ AGGREGATE BASE



PAVEMENT REPLACEMENT DETAILS
N.T.S.

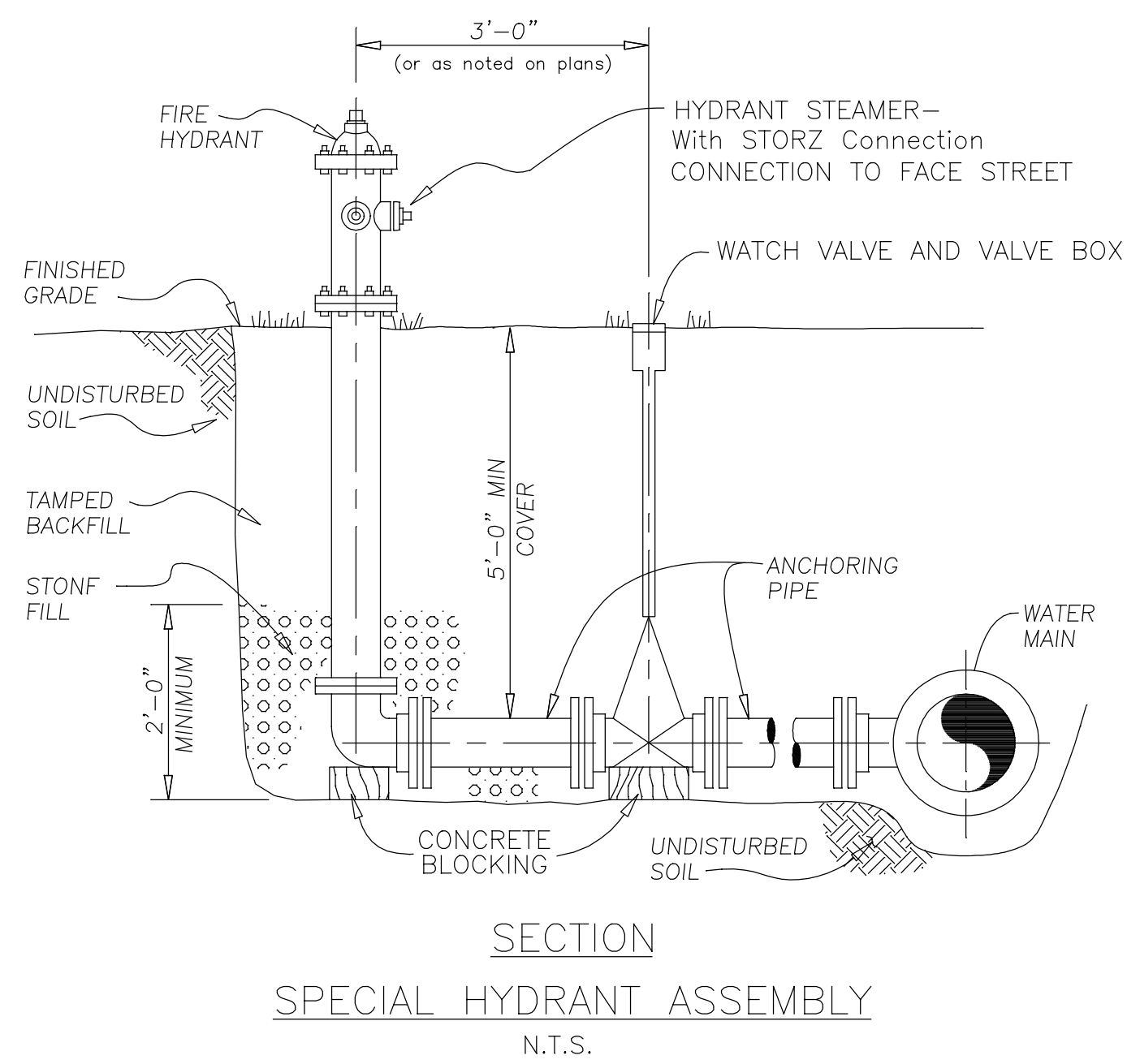
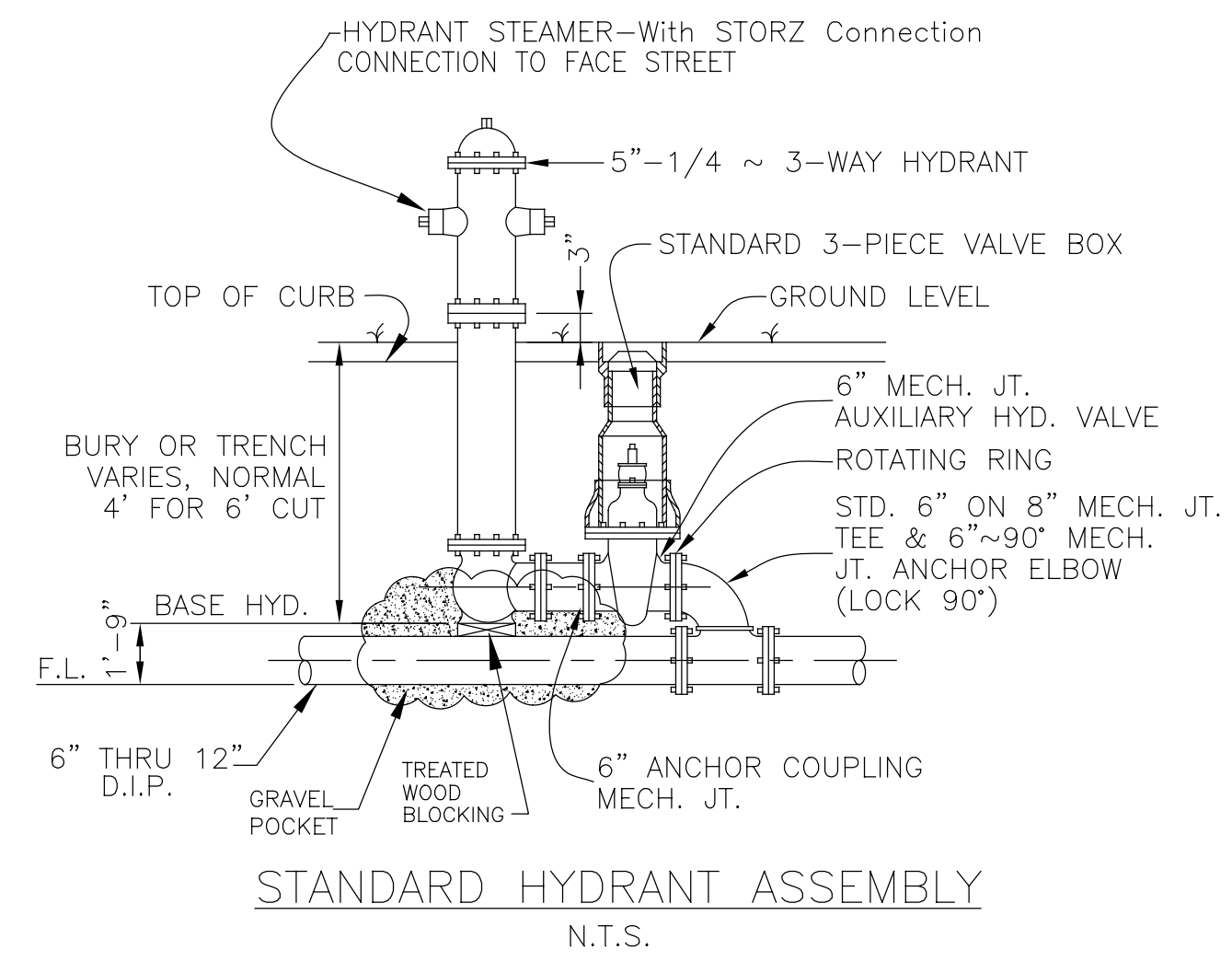
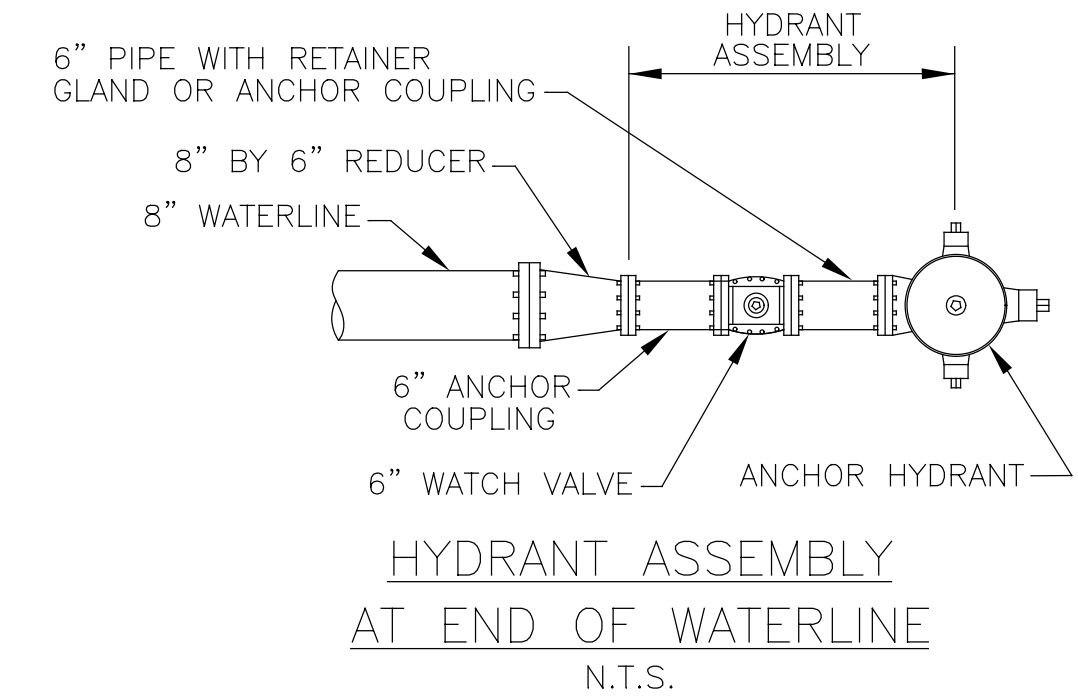
DRIVES DISTURBED DUE TO CONSTRUCTION ARE TO BE REPLACED IN KIND OR WITH THE MINIMUM THICKNESS FROM THE FOLLOWING TABLE.

- ASPHALT DRIVES**
- (A) 2" - ITEM 441 ~ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)
 - (B) 6" - ITEM 304 ~ AGGREGATE BASE
- CONCRETE DRIVES**
- (C) 6" - ITEM 452 ~ NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
- STONE DRIVES**
- (D) 6" - ITEM 304 ~ AGGREGATE BASE



ALL DRIVE APPROACHES AND X-OVER PAVEMENT CUTS SHALL BE SAW CUT.
 DRIVE REPLACEMENT SHALL BE FROM EDGE OF PAVEMENT TO BACK OF TRENCH, OR TO THE NEXT JOINT FOR CONCRETE DRIVEWAYS.

DRIVEWAY REPLACEMENT DETAILS
N.T.S.



ITEM 503 - ROCK EXCAVATION

THE TOP OF BEDROCK ELEVATIONS LISTED IN THE PLANS ARE FROM BORINGS PERFORMED FOR THIS PROJECT. AN ESTIMATED QUANTITY FOR 4' OF ROCK EXCAVATION AT THE JACKING PIT AND 10' OF ROCK EXCAVATION AT THE RECEIVING PIT HAVE BEEN PROVIDED IN THE WATER WORKS SUBSUMMARY FOR ROCK EXCAVATION WITHIN THE LIMITS OF THE JACKING AND RECEIVING PITS TO FACILITATE THE JACK AND BORE INSTALLATION OF THE 12" WATER MAIN UNDER US-23.

PAYMENT WILL BE MADE FOR THE ACTUAL VOLUME OF ROCK EXCAVATION IN CUBIC YARDS UNDER ITEM 503 - ROCK EXCAVATION.

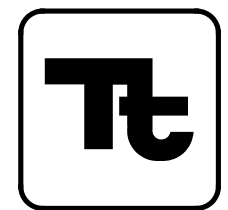
ITEM SPECIAL - CUT AND PLUG EXISTING 8" WATER LINE, CITY OF SYLVANIA

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 8" WATER LINE.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE ABANDONED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM SPECIAL - CUT AND PLUG EXISTING 8" WATER LINE, CITY OF SYLVANIA AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, DISPOSAL, AND OTHER INCIDENTALS NECESSARY TO ABANDON THE EXISTING WATER LINE.

DESIGN AGENCY



DESIGNER

KSK

REVIEWER

AMD 09/13/24

PROJECT ID

105889

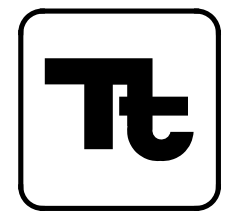
SHEET TOTAL

316 | 607

REF NO.	SHEET NO.	STATION TO STATION		SPLIT	202	503	638	638	638	638	638	638	638	638	638	SPECIAL	SPECIAL	638	638	638					
					VALVE BOX REMOVED	ROCK EXCAVATION	8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, MECHANICAL JOINTS AND FITTINGS	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	24" STEEL PIPE ENCASUREMENT, BORED OR JACKED	8" GATE VALVE AND VALVE BOX	12" GATE VALVE AND VALVE BOX	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX	16" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX	6" FIRE HYDRANT, AS PER PLAN	VALVE BOX ADJUSTED TO GRADE	FIRE HYDRANT REMOVED FOR STORAGE, CITY OF SYLVANIA	CUT AND PLUG EXISTING 8" WATER LINE, CITY OF SYLVANIA	WATER WORK, MISC.; CONNECT TO EXISTING WATER MAIN	WATER WORK, MISC.; 2" BLOWOFF VALVE	WATER WORK, MISC.; 2.5" BLOWOFF VALVE				
					EACH	CY	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH					
MONROE STREET																									
WW-1	148	169+91.17	TO	170+02.00											1		1								
WW-2	148			173+82.09												1									
WW-3	148	173+89.07	TO	173+89.07											1		1								
WW-4	149			174+17.51													1								
WW-5	149	174+24.00	TO	174+40.00				22																	
ALEXIS ROAD																									
WW-6	158			46+48.42													1								
WW-7	158			47+16.78													1								
MONROE STREET																									
WW-8	318, 319	176+05.40	TO	183+25.37	1													2							
WW-9	318	176+05.68	TO	179+12.54					313				1						1	1					
WW-10	318, 319	179+12.54	TO	182+48.71		106		344		213															
WW-11	319	182+48.71	TO	183+10.35					62			1							1	1					
WW-12	320			191+80.94	1																				
WW-13	320			192+74.44												1									
WW-14	320, 321	190+10.63	TO	192+72.88													1								
WW-15	320, 321	191+41.66	TO	192+74.96					323				1					1				1			
ACRES ROAD																									
WW-16	321	60+45.67	TO	63+92.33														1							
WW-17	321, 322	61+43.37	TO	64+87.59					389				1						1	1		1			
WW-18	321	63+68.82	TO	63+68.90	1												1								
WW-19	321	63+70.19	TO	63+81.48			20				1										1				
WW-20	321			63+74.13											1										
WW-21	321			63+91.42										1											
WW-22	321			63+85.81	1																				
ALEXIS ROAD																									
W-23	323	34+61.00	TO	37+00.48	2																	2			
TOTALS CARRIED TO GENERAL SUMMARY					6	106	20	366	1087	213	1	1	2	1	4	5	3	6	4	3	2				

WATER WORK SUBSUMMARY

DESIGN AGENCY



DESIGNER
GCB

REVIEWER
AMD 09/13/24

PROJECT ID
105889

SHEET TOTAL
317 | 607

LUC-023-11.75

MODEL: Sheet PAPER: 34x22 (in.) DATE: 1/29/2025 TIME: 3:26:24 PM USER: xheng
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SHEET NO.	SHEET NO.	LOCATION	STATION TO STATION			SIDE	SPLIT	621	621	642	642	642	642	642	642	642	642	642	642	620						
								RPM	RAISED PAVEMENT MARKER REMOVED	EDGE LINE, 4", TYPE 1 WHITE	EDGE LINE, 4", TYPE 1 YELLOW	LANE LINE, 4", TYPE 1	CENTER LINE, TYPE 1	CHANNELIZING LINE, 8", TYPE 1	STOP LINE, TYPE 1	CROSSWALK LINE, 24", TYPE 1, AS PER PLAN	TRANSVERSE/DIAGONAL LINE, TYPE 1 WHITE	TRANSVERSE/DIAGONAL LINE, TYPE 1 YELLOW	LANE ARROW, TYPE 1	TWO WAY LEFT TURN ARROW, TYPE 1	DOTTED LINE, 4", TYPE 1 WHITE	DOTTED LINE, 4", TYPE 1 YELLOW	YIELD LINE, TYPE 1	DELINEATOR, POST GROUND MOUNTED		
							EACH	EACH	MILE	MILE	MILE	MILE	FT	FT	FT	FT	EACH	EACH	EACH	FT	FT	FT	EACH			
345	ELW-20	RAMP C	10+22	TO	16+60	LT	01/NHS/21																			
345	ELW-21	RAMP D	10+86	TO	11+59	RT	01/NHS/21																			
345	ELY-10	RAMP C	10+84	TO	16+60	LT	01/NHS/21																	2.904		
345	LL-16	RAMP D	10+84	TO	11+87	RT	01/NHS/21																			
345	SL-15	RAMP D	10+84			LT	01/NHS/21						36													
353	WA-3	RAMP C	11+26			RT	01/NHS/21																			
353	YL-1	RAMP D	11+65	TO	11+82	RT	01/NHS/21																25			
345	A-43	RAMP C	10+91			LT	01/NHS/21											3								
353	A-44	RAMP D	11+87			RT	01/NHS/21																			
353	A-45	RAMP C	11+94			LT	01/NHS/21											3								
353	A-46	RAMP C	13+38			LT	01/NHS/21											3								
353	A-47	RAMP D	13+70			RT	01/NHS/21																			
353	A-48	RAMP D	14+90			RT	01/NHS/21																			
353	A-49	RAMP C	15+77			LT	01/NHS/21											2								
TOTAL CARRIED FROM SHEET 334								244		0.85		0.59	0.39	3075	162	712	46		26		649	265				
TOTAL CARRIED FROM SHEET 335								197		0.19	0.18	0.68	0.10	1837	300	200		13	74		783				26	
TOTAL CARRIED FROM SHEET 336								232		0.20	0.18	0.40	0.35	1501	109	320		124	38						8	
TOTALS THIS SHEET															36				11					25	3	
TOTALS CARRIED TO GENERAL SUMMARY								673	37	1.60		1.67	0.84	6413	607	1232		183	149		2		1697	25	37	

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY

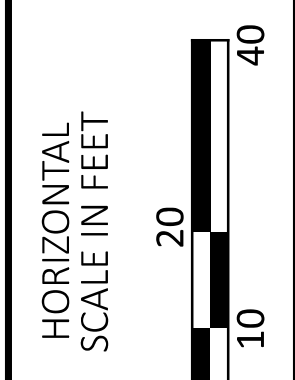
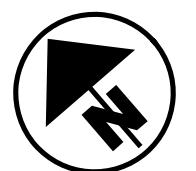
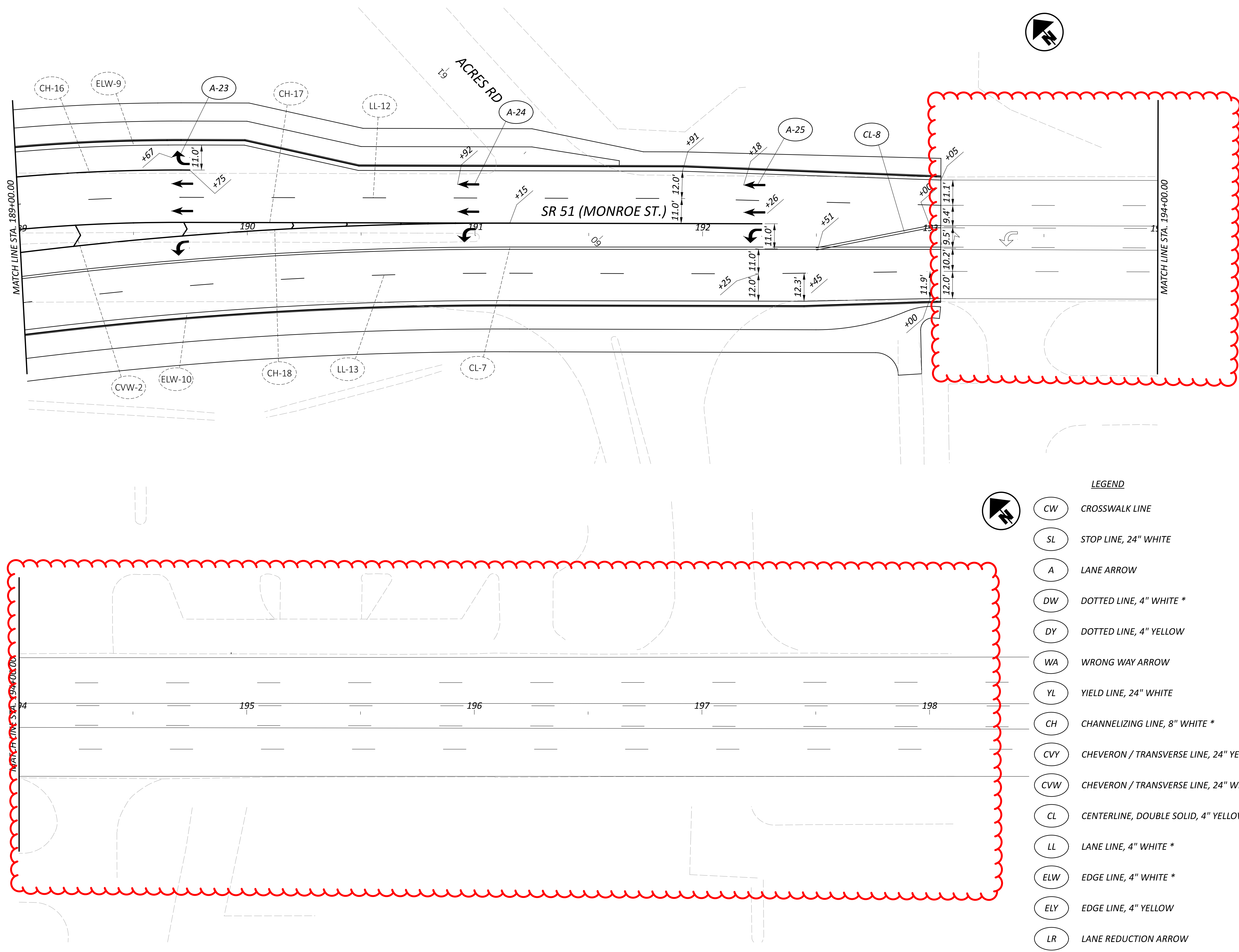
BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 540 BRIMFIELD BLVD, STE C,
 WAMEGO, OH 43087

DESIGNER
 RN

REVIEWER
 DTB 09/13/24

PROJECT ID
 105889

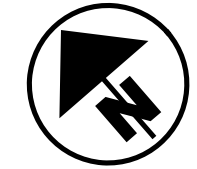
SHEET TOTAL
 337 607



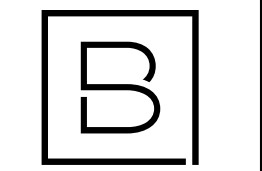
PAVEMENT MARKING PLAN - MONROE ST
 STA. 189+00 TO STA. 199+00

LEGEND

- CROSSWALK LINE
- STOP LINE, 24" WHITE
- LANE ARROW
- DOTTED LINE, 4" WHITE *
- DOTTED LINE, 4" YELLOW
- WRONG WAY ARROW
- YIELD LINE, 24" WHITE
- CHANNELIZING LINE, 8" WHITE *
- CHEVERON / TRANSVERSE LINE, 24" YELLOW*
- CHEVERON / TRANSVERSE LINE, 24" WHITE*
- CENTERLINE, DOUBLE SOLID, 4" YELLOW
- LANE LINE, 4" WHITE *
- EDGE LINE, 4" WHITE *
- EDGE LINE, 4" YELLOW
- LANE REDUCTION ARROW



DESIGN AGENCY



BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
340 BRIMFIELD BLVD, STE. C,
 WARREN, OH 43087

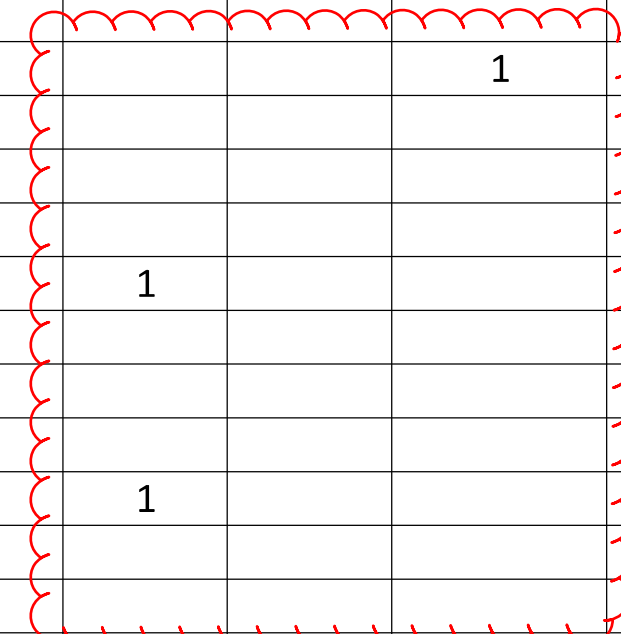
DESIGNER
 DTB

REVIEWER
 XF 09/13/24

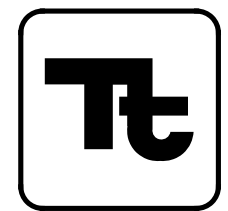
PROJECT ID
 105889

SHEET TOTAL
 347 607

SHEET NO.	LOCATION TO LOCATION	SPLIT	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	633	633	633	633	809	809	828	
			SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG FT	SIGNAL SUPPORT FOUNDATION, AS PER PLAN EACH	PEDESTAL FOUNDATION EACH	POWER SERVICE, AS PER PLAN EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN EACH	PEDESTAL, 8', AS PER PLAN EACH	PEDESTAL, MISC.; PEDESTAL, 15', HL-10.12 POLE WITH HL-10.13 TRANSFORMER BASE EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM; PEDESTAL AND FOUNDATION EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN EACH	REUSE OF PEDESTRIAN SIGNAL HEAD EACH	REUSE OF PEDESTRIAN PUSHBUTTON EACH	CABINET, TYPE TS-2, AS PER PLAN EACH	CABINET FOUNDATION, AS PER PLAN EACH	CONTROLLER WORK PAD, AS PER PLAN EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN EACH	ATC CONTROLLER, AS PER PLAN EACH	STOP LINE RADAR DETECTION, AS PER PLAN EACH	LED BLANKOUT SIGN, (MMU/CMU COMPATIBLE), TYPE R3-1, SIZE 24" X 24" EACH		
393	KROGER DRIVE INTERSECTION	02/S>2/04		209										1		1	1								1
394	GLASGOW RD. INTERSECTION PB-1 TO CONTROLLER	01/NHS/21	48	72	312					1								1	1	1	1		1		
394	PS-1 TO PB-1	01/NHS/21	26	31	68								1												
394	PB-2 TO PB-1	01/NHS/21	61	122	671																				
394	SP-1 TO PB-2	01/NHS/21			259	1						1											1		
394	PB-3 TO PB-2	01/NHS/21	105	210	840																				
394	SP-2 TO PB-3	01/NHS/21		72	187	1						1											1		1
394	PB-4 TO PB-3	01/NHS/21	155	155	930																				
394	SP-4 TO PB-4	01/NHS/21			251	1					1												1		
394	PB-5 TO PB-4	01/NHS/21	101	101	303																				
394	PS-2 TO PB-5	01/NHS/21	32	37			1					1													
394	SP-3 TO PB-5	01/NHS/21			211	1					1												1		
398	ALEXIS RD. INTERSECTION PB-1 TO CONTROLLER	01/NHS/21	24	24	120													1	1	1	1		1		
398	SP-1 TO PB-1	01/NHS/21			193	1						1												1	
398	PS-1 TO PB-1	01/NHS/21	34	39			1						1												
398	PB-2 TO PB-1	01/NHS/21			435																				
398	SP-2 TO PB-2	01/NHS/21			306	1						1											1		
398	PB-3 TO CONTROLLER	01/NHS/21	75	75	125																				
398	PB-4 TO PB-3	01/NHS/21	417	417	695																				
398	SP-3 TO PB-4	01/NHS/21	40	45	233	1						1													
398	PB-5 TO PB-4	01/NHS/21	160	160	240																				
398	PS-2 TO PB-5	01/NHS/21	24	29	32								1												
398	PB-6 TO PB-5	01/NHS/21	204	204	306																				
398	SP-4 TO PB-6	01/NHS/21	38	41	223	1						1											2		
TOTALS CARRIED TO SHEET 392			1544	2043	6940	8	2	2	2	6	2	2	1	2	1	1		2	2	2	2	2	8		2

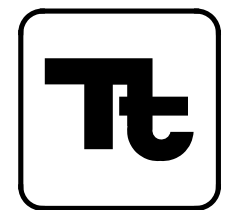


TRAFFIC SIGNAL SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 GCB
 REVIEWER
 DTC 09/13/24
 PROJECT ID
 105889
 SHEET TOTAL
 390 607

SHEET NO.	STATION TO STATION	SPLIT	632	632	632	632	632	632	632	632	632	632	632	632	632	633	633	633	633	809	809	828	
			SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG FT	SIGNAL SUPPORT FOUNDATION, AS PER PLAN EACH	PEDESTAL FOUNDATION EACH	POWER SERVICE, AS PER PLAN EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN EACH	PEDESTAL, 8', AS PER PLAN EACH	PEDESTAL, MISC.; PEDESTAL, 15', HL-10.12 POLE WITH HL-10.13 TRANSFORMER BASE EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM; PEDESTAL AND FOUNDATION EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN EACH	REUSE OF PEDESTRIAN SIGNAL HEAD EACH	REUSE OF PEDESTRIAN PUSHBUTTON EACH		CABINET, TYPE TS-2, AS PER PLAN EACH	CABINET FOUNDATION, AS PER PLAN EACH	CONTROLLER WORK PAD, AS PER PLAN EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN EACH		ATC CONTROLLER, AS PER PLAN EACH
402	ELLIOT INTERSECTION PB-1 TO PS-1	02/S>2/04																					
402	PB-1 TO PB-2	02/S>2/04		85	170																		
402	PB-2 TO SP-2	02/S>2/04		56																			1
402	PB-2 TO PB-4	02/S>2/04		220	220																		
402	CONTR. TO PB-4	02/S>2/04		76	76						1												
402	CONTR. TO SP-4	02/S>2/04			171																		
402	PB-1 TO PB-5	02/S>2/04		32	64																		
402	PB-5 TO SP-1	02/S>2/04		31	62																		
TOTALS CARRIED FROM SHEET 390			1544	2043	6940	8	2	2	2	6	2	2	1	2	1	1	2	2	2	2	2	8	2
TOTALS THIS SHEET				500	763					6				1									1
TOTALS CARRIED TO GENERAL SUMMARY			1544	2543	7703	8	2	2	2	6	2	2	1	3	1	1	2	2	2	2	2	8	3

TRAFFIC SIGNAL SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 GCB
 REVIEWER
 DTC 09/13/24
 PROJECT ID
 105889
 SHEET TOTAL
 392 | 607