

ARLINGTON VIRGINIA

ENGINEER
DEPARTMENT OF ENVIRONMENTAL SERVICES

FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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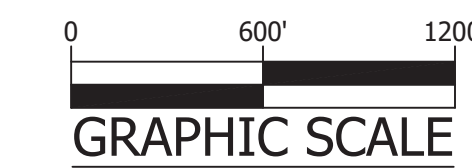
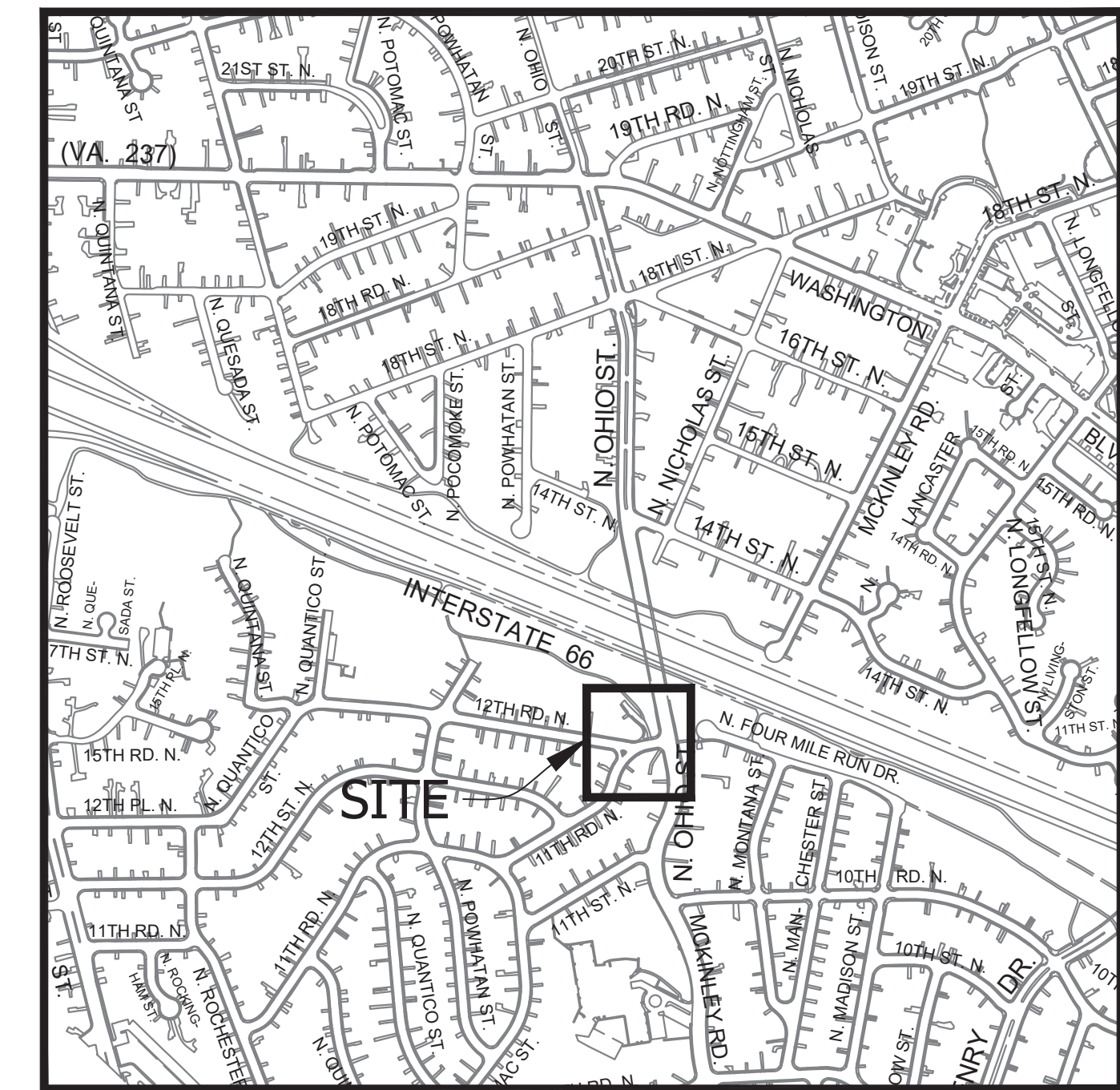
OWNER
DES/DTD/PLAN

CONSULTANT
VOLKERT, INC.

6225 BRANDON AVENUE, SUITE 540
SPRINGFIELD, VA 22150
PHONE: 703.642.8100 FAX: 703.642.8106
WWW.VOLKERT.COM

CONTRACTOR
TO BE DETERMINED

LOCATION MAP



CONSTRUCTION DRAWINGS FOR:

N OHIO ST AND 12TH RD N INTERSECTION

PROJECT NUMBER: D48S

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER, SEWER AND GAS LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE AS DIRECTED BY OFFICER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.
- ALL SIDEWALK AND CURB AND GUTTER DEMOLITION SHALL BEGIN AND END AT THE CONSTRUCTION JOINT NEAREST TO THE DEPICTED DEMOLITION EXTENTS WITH A NEAT SAWCUT LINE TO FULL DEPTH OF PAVEMENT SECTION.

STORMWATER AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).

TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 5 BUSINESS DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
- WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. ANY RELOCATION OR CLOSURE OF A BUS STOP SHALL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-6555 AND THE PROJECT OFFICER.
- THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTOFFS, DISCONNECTS, AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED INTERRUPTION.

FIRE DEPARTMENT NOTES:

- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 507.5.4 AND 507.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 3310 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.

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SWM#23-0101

ADT

3,600 - N OHIO ST - 2019 - VDOT
1,060 - 12TH RD N - FROM N POWHATAN ST TO 11TH RD N - 2019 - ARLINGTON

STREET CLASSIFICATION

N OHIO ST - MINOR ARTERIAL
12TH RD N - NEIGHBORHOOD PRINCIPAL
11TH RD N - NEIGHBORHOOD MINOR
N FOUR MILE RUN DR - NEIGHBORHOOD MINOR

POSTED SPEED

N OHIO ST - 25 MPH
12TH RD N - 25 MPH
11TH RD N - 25 MPH
N FOUR MILE RUN DR - 25 MPH



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SEAL



APPROVALS DATE

	1/11/2024
	1/12/2024
	1/11/2024
	1/12/2024
	12/18/2023

REVISIONS DATE

N OHIO ST AND 12TH RD N INTERSECTION

D48S

COVER SHEET

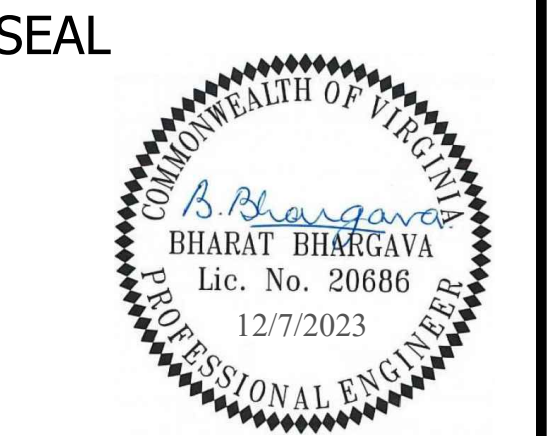
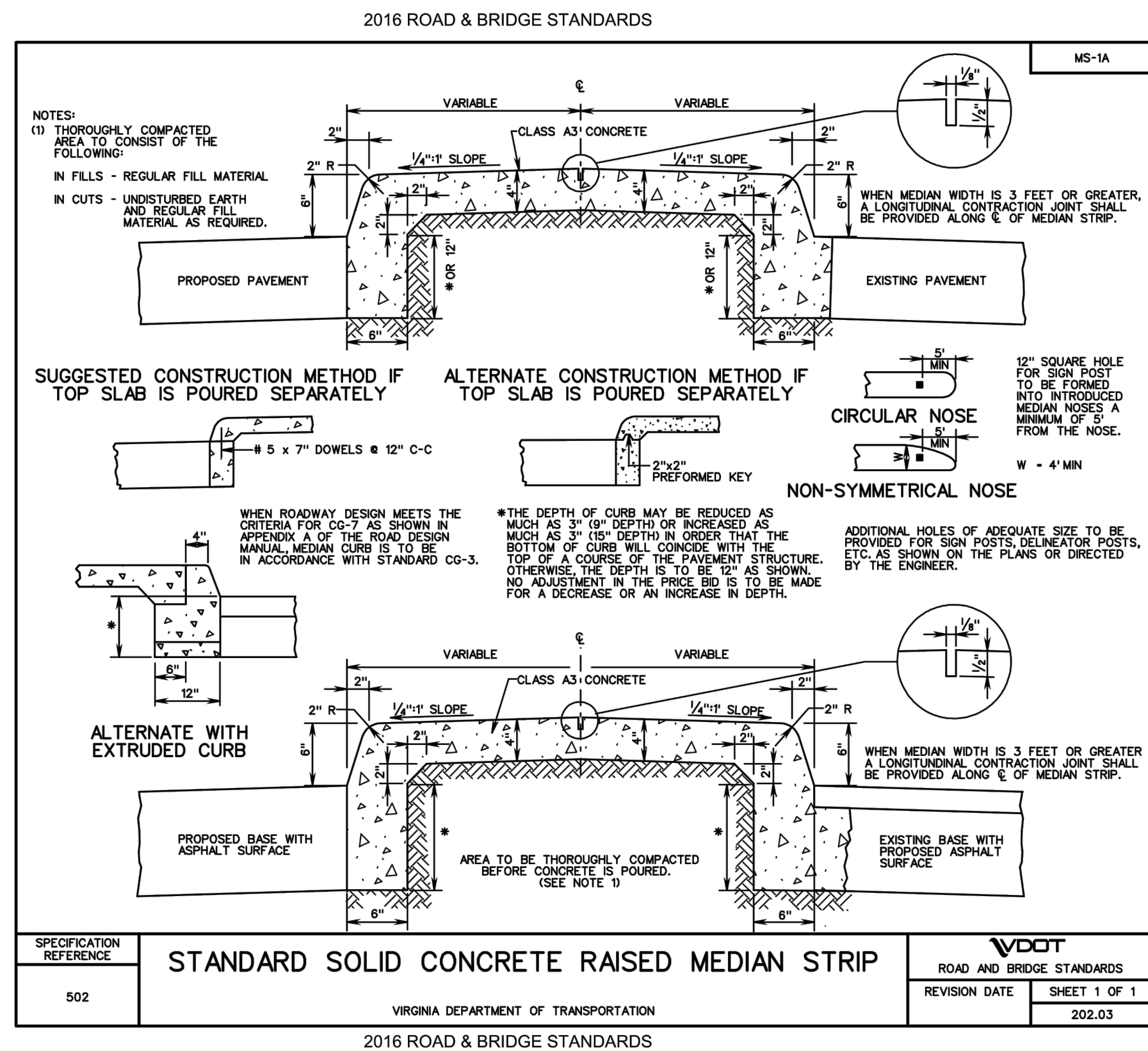
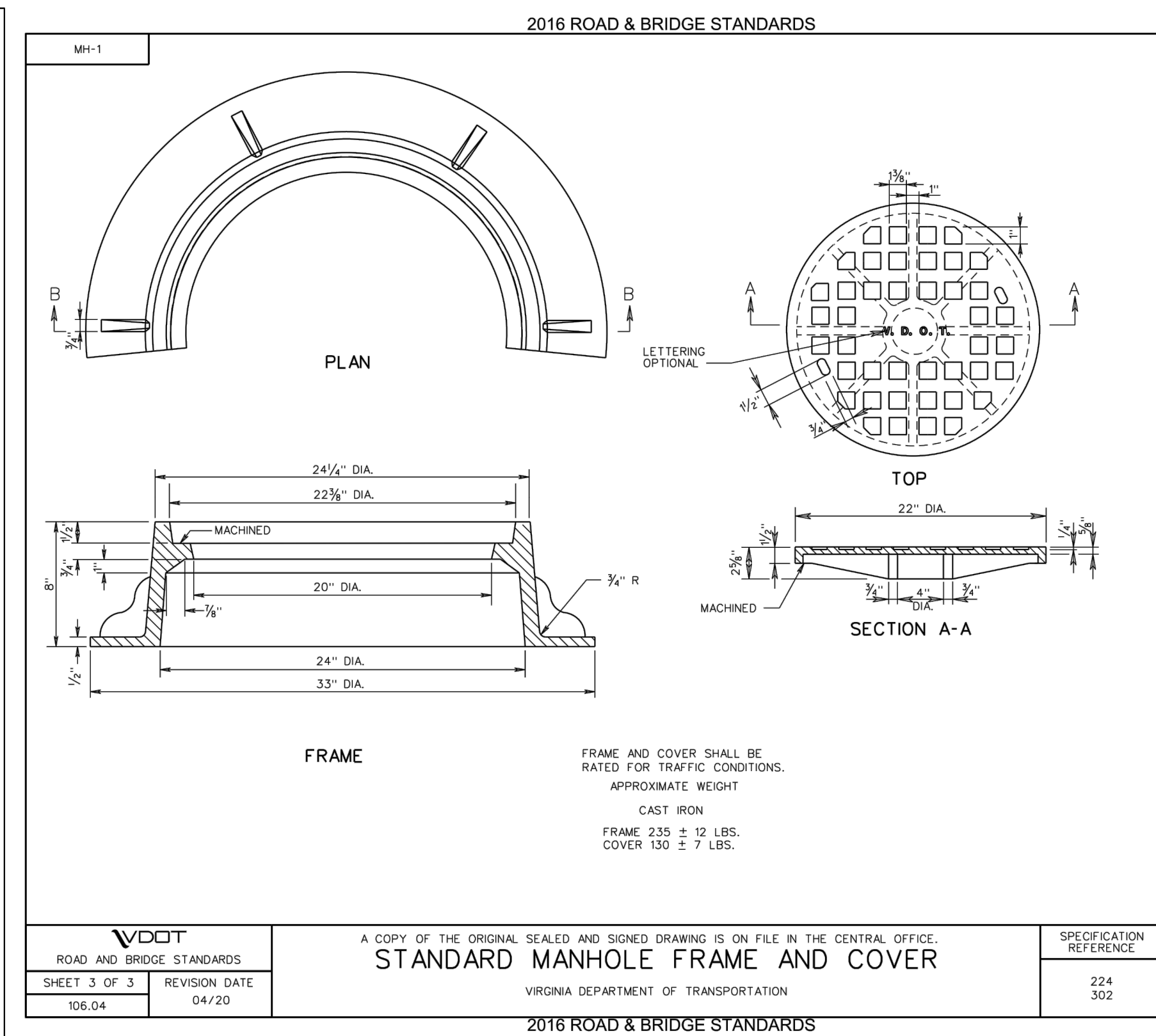
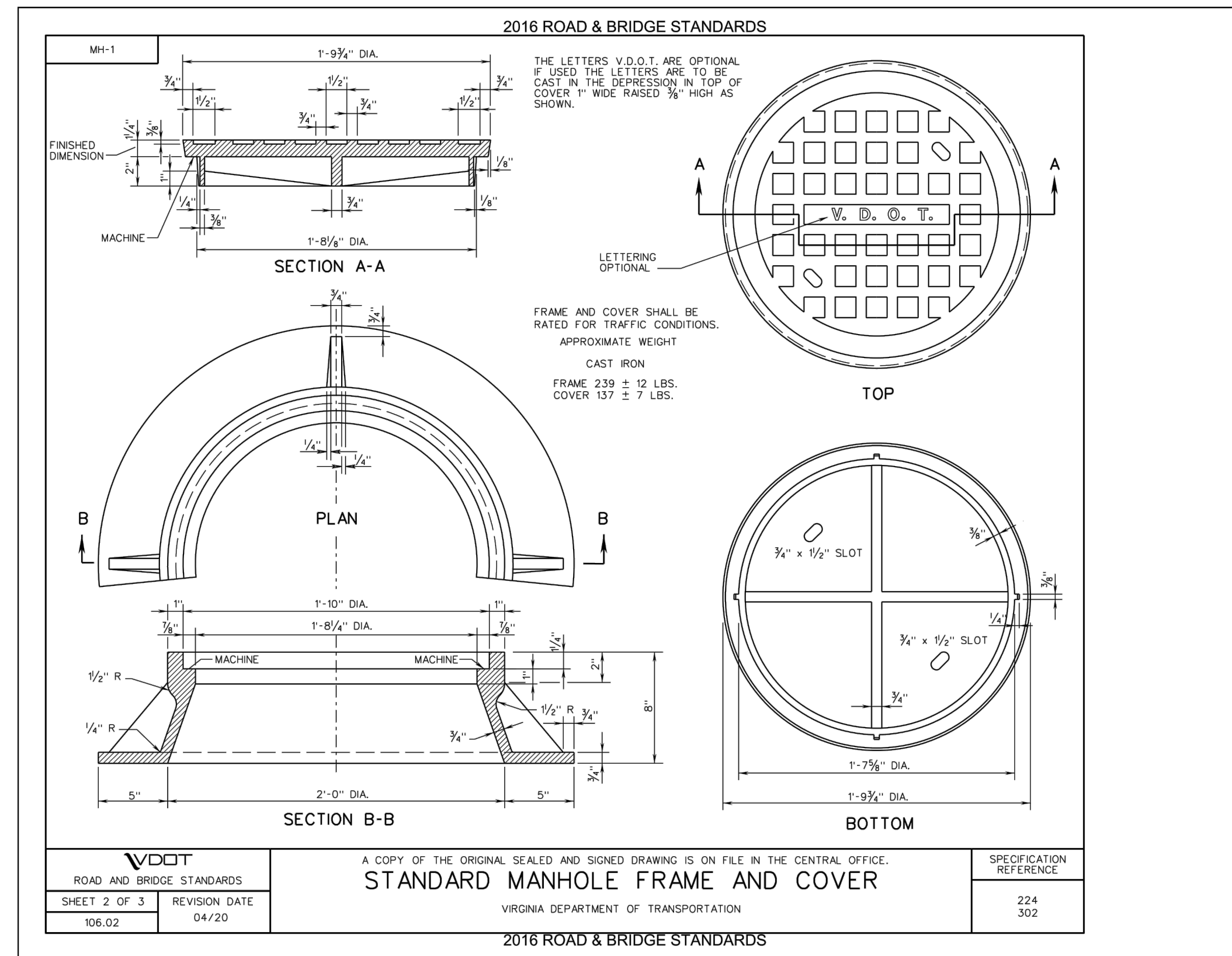
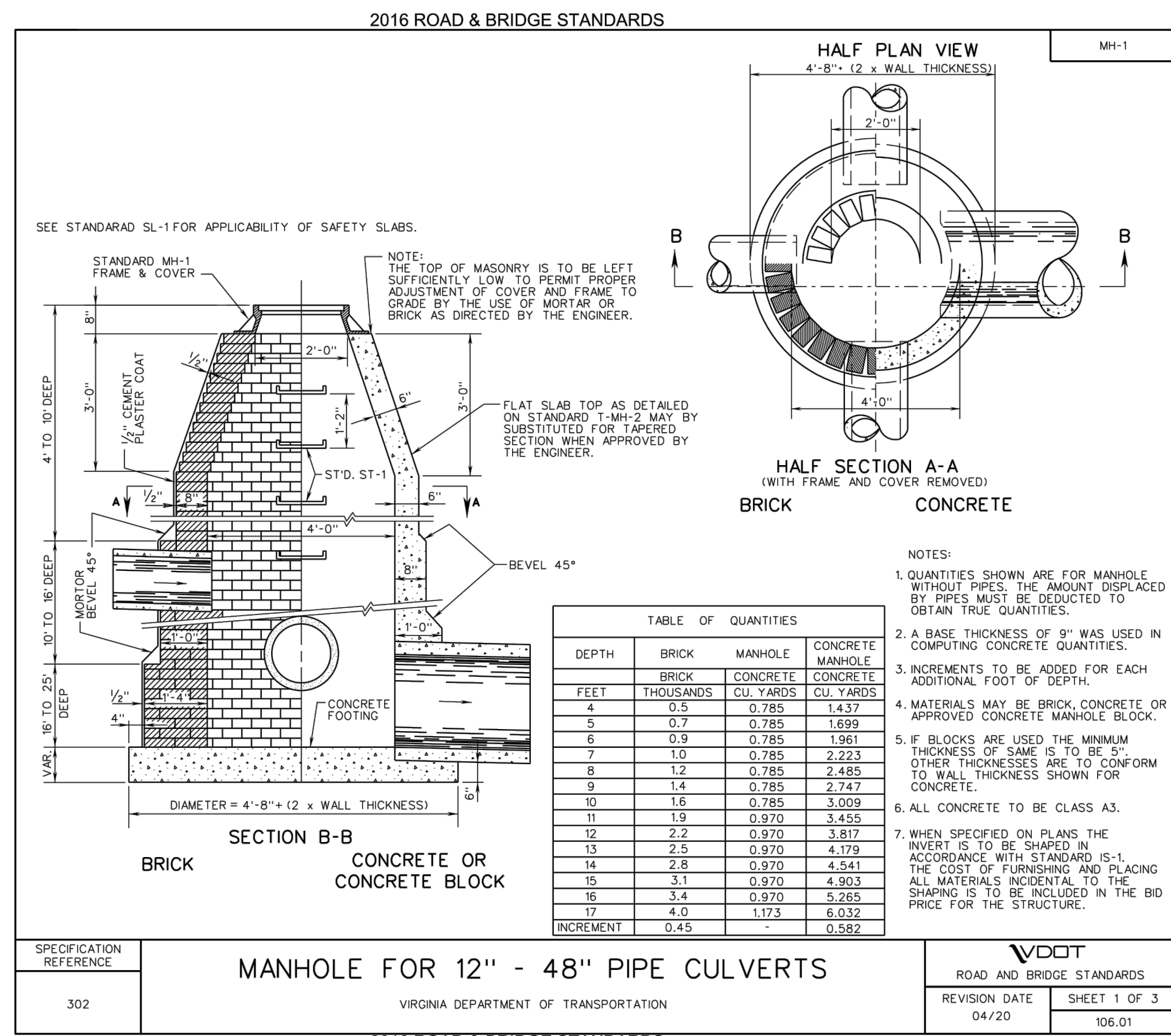
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CONSTRUCTION MANAGEMENT SUPERVISOR	
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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION

D485

DETAILS

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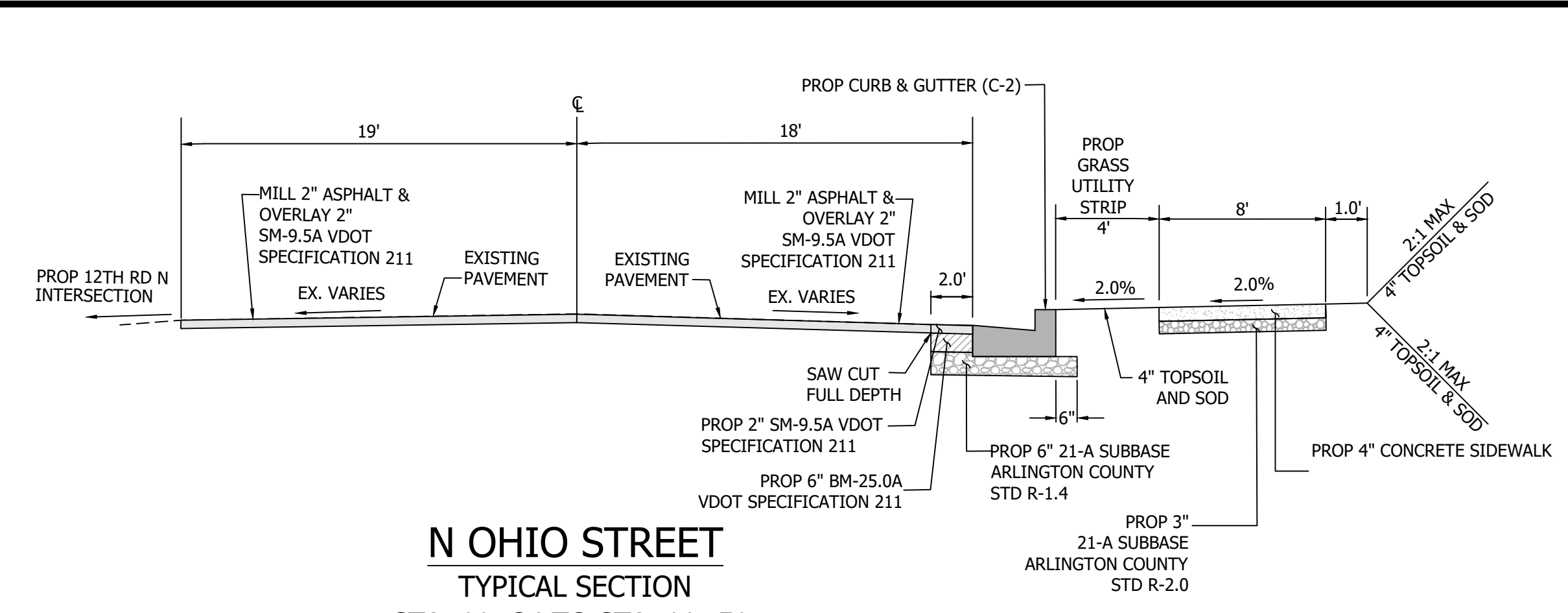
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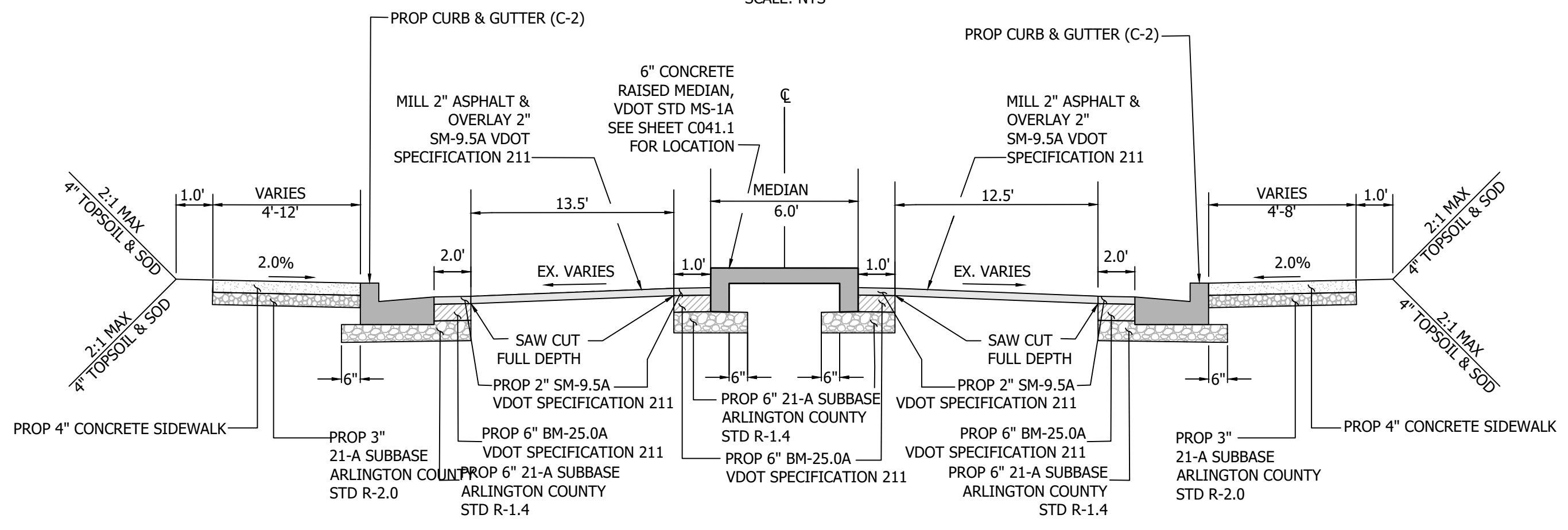
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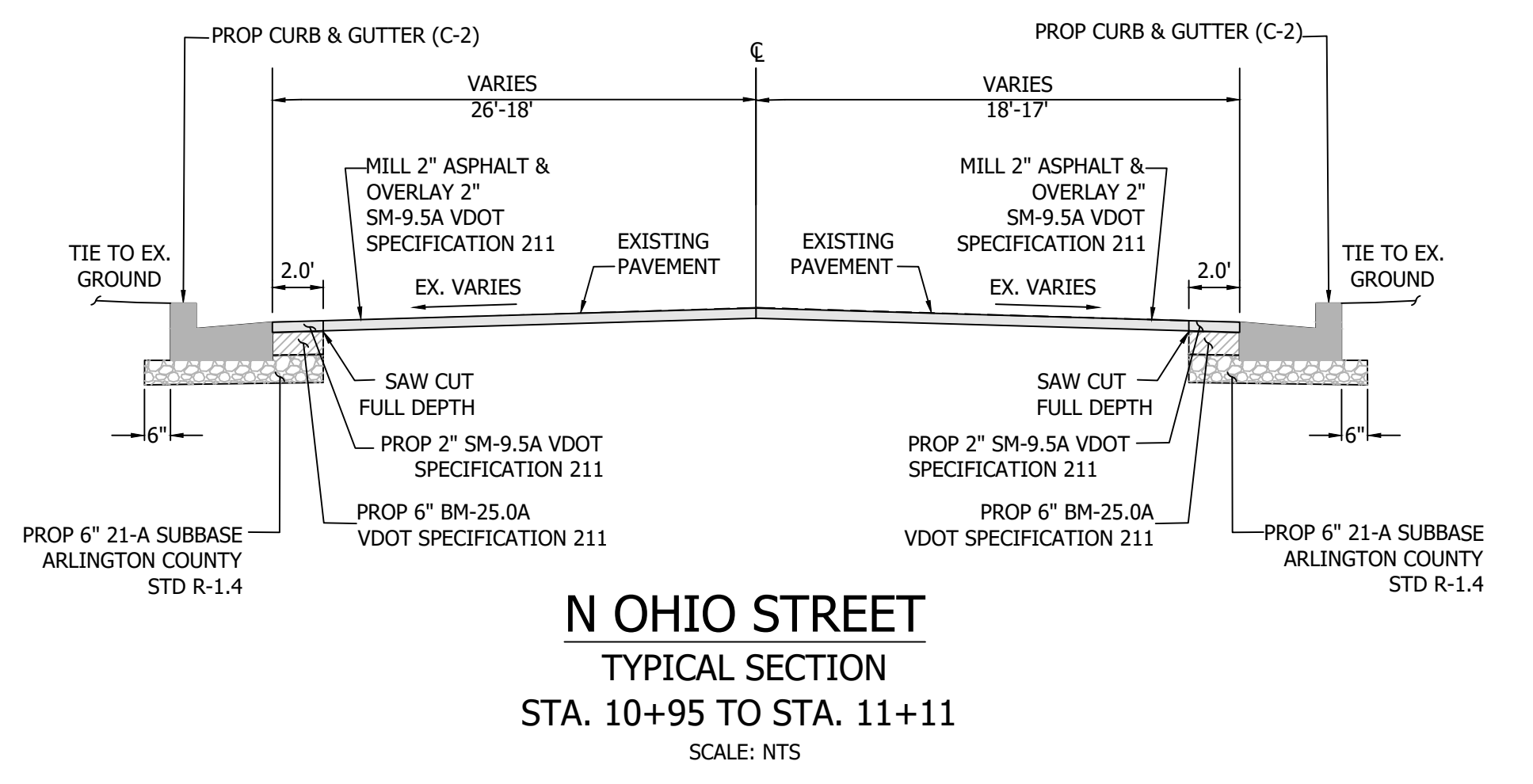
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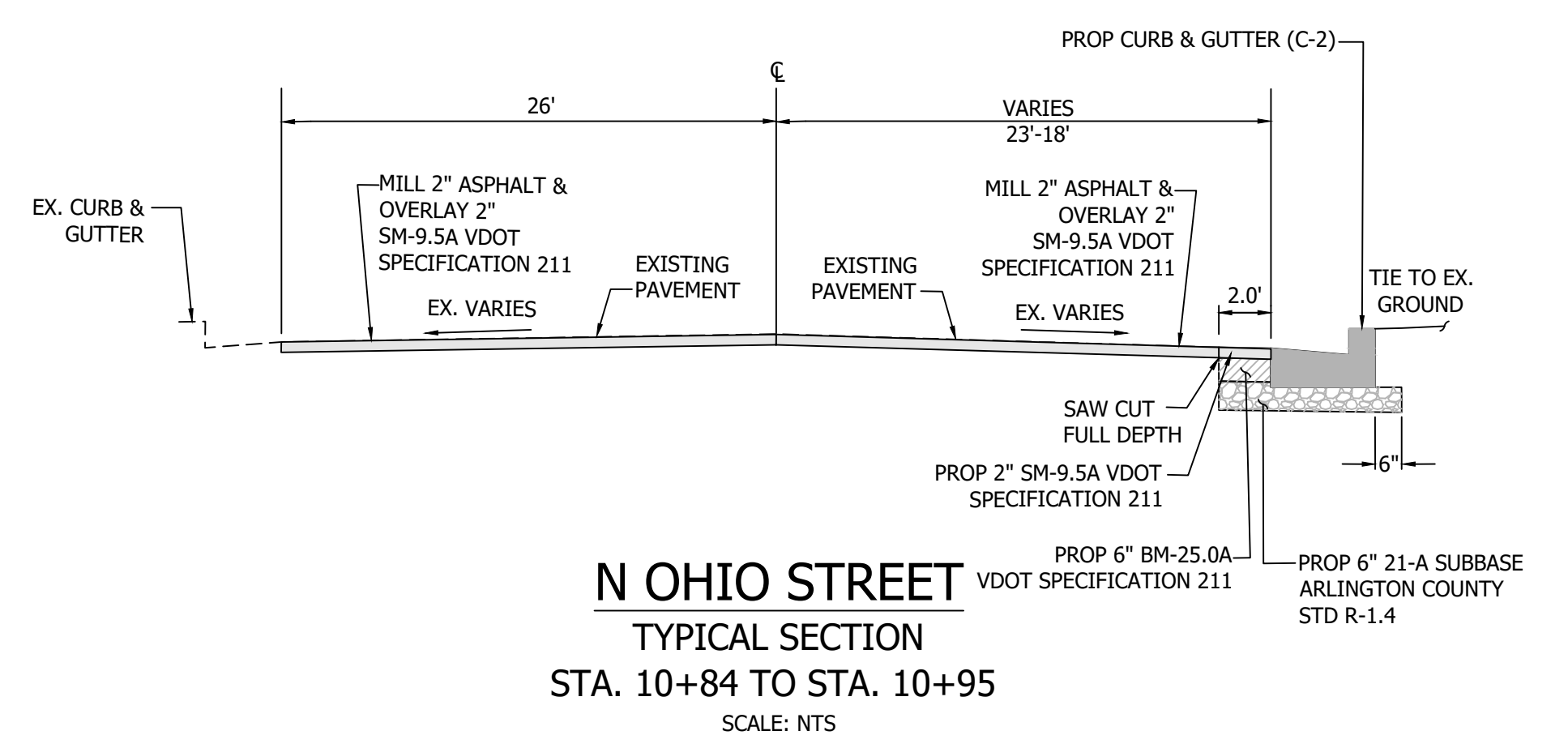
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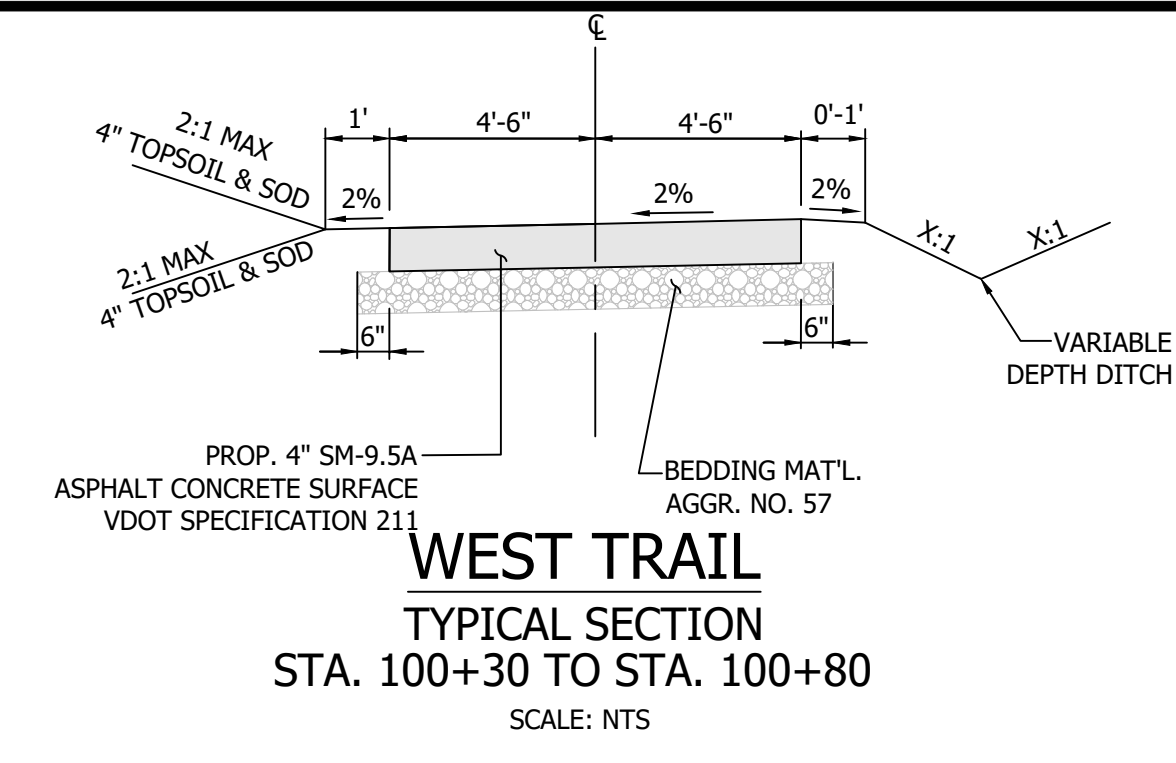
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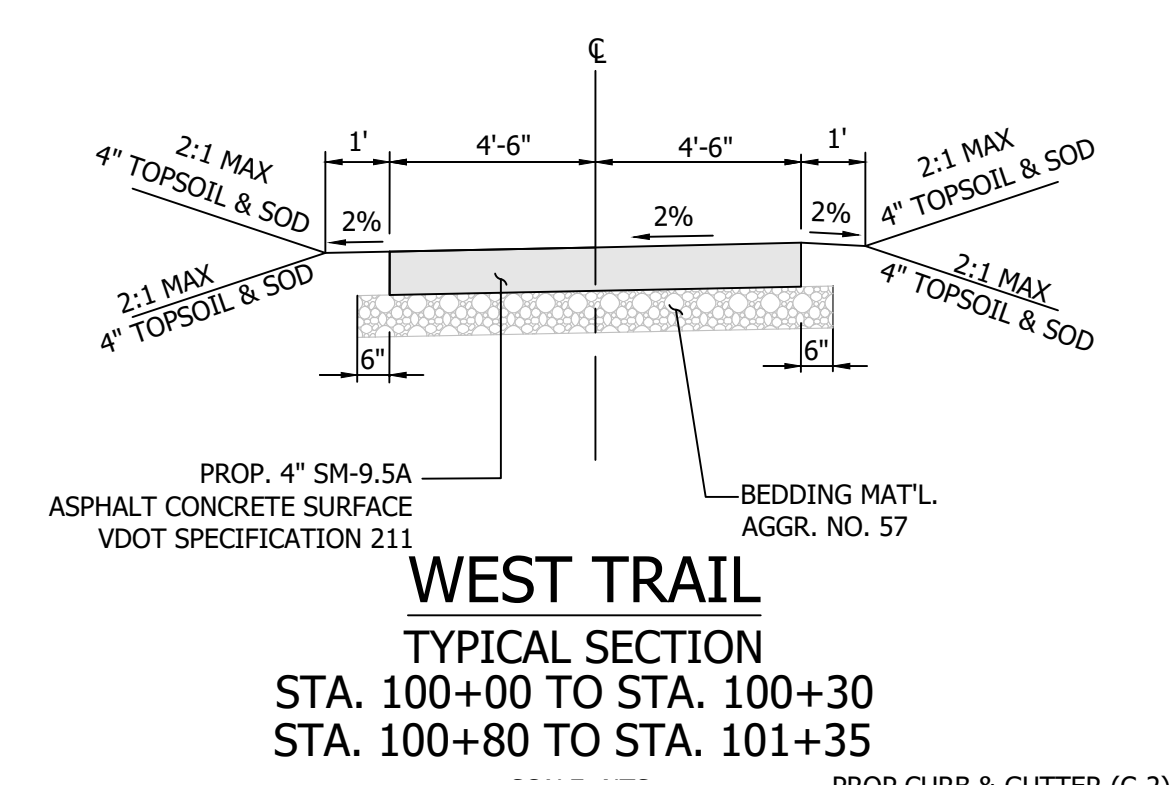
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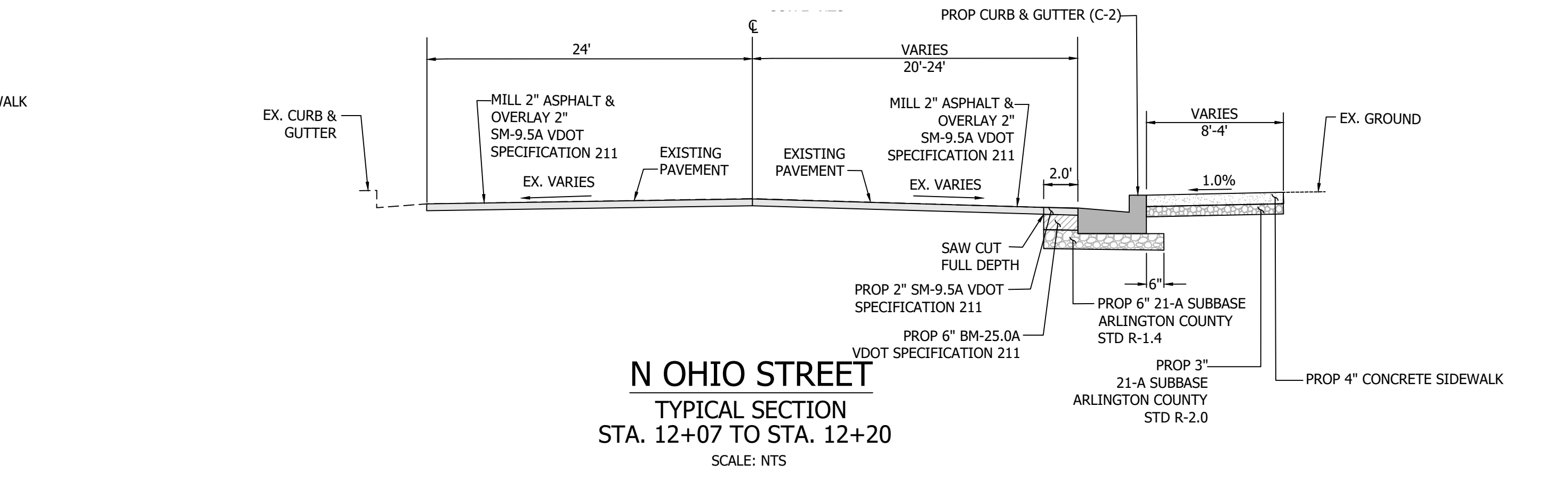
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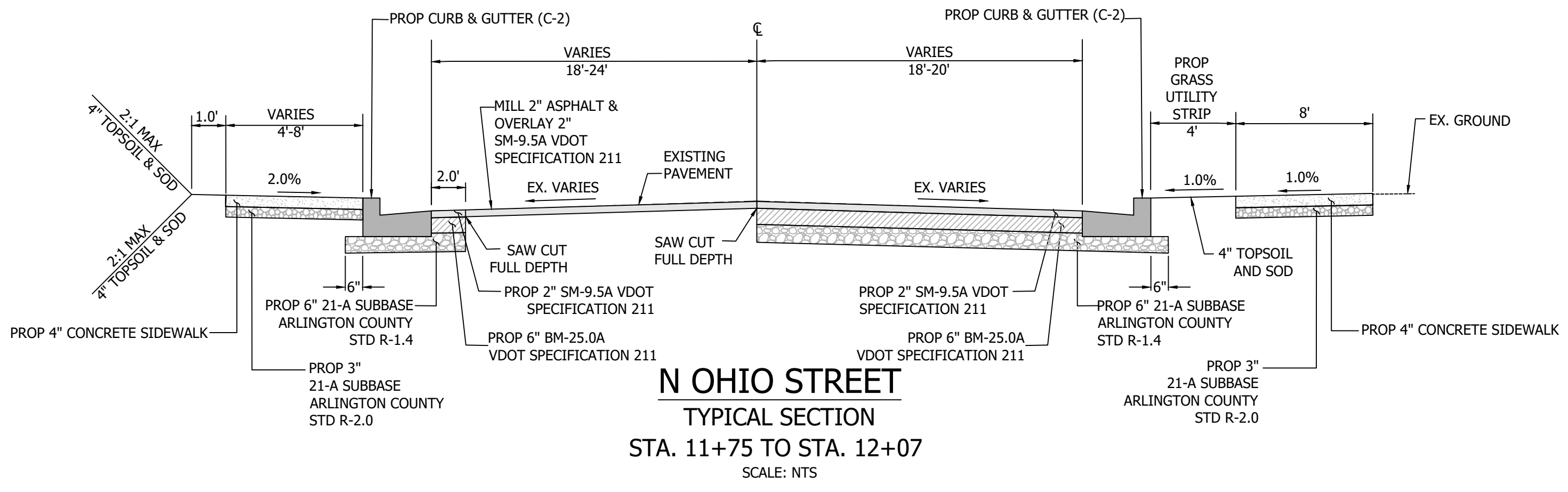
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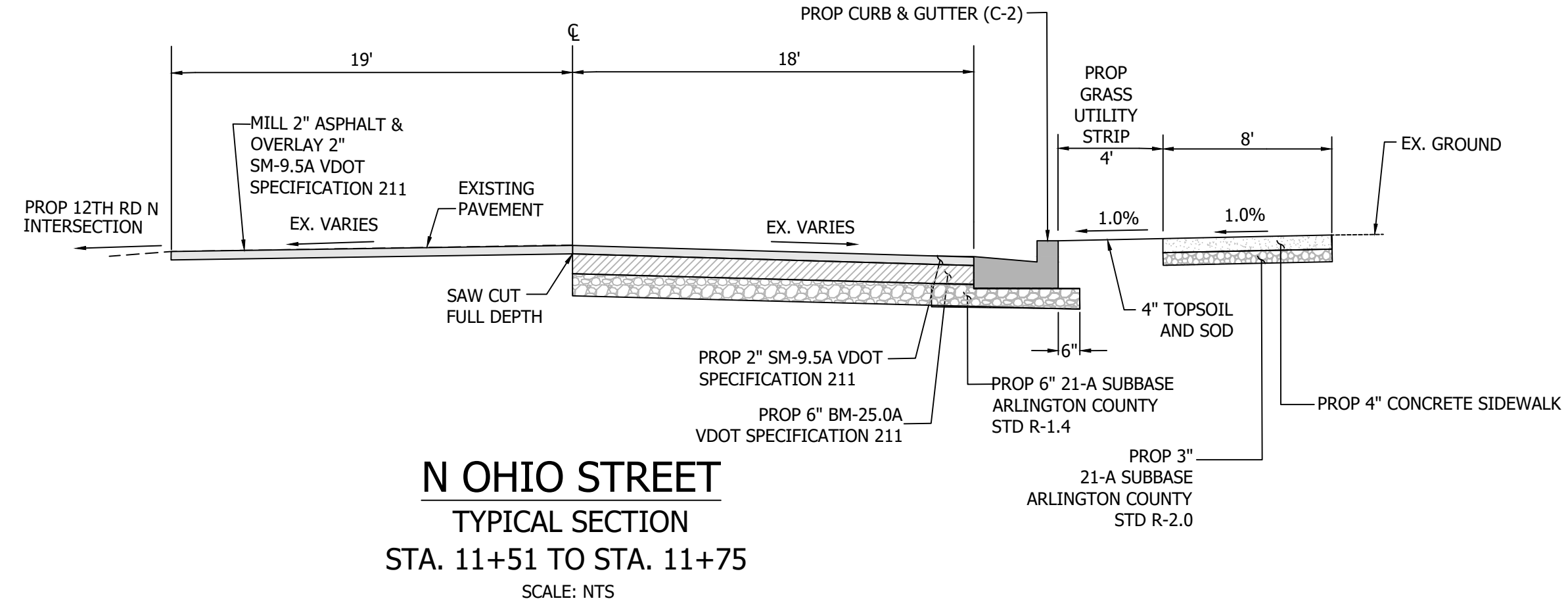
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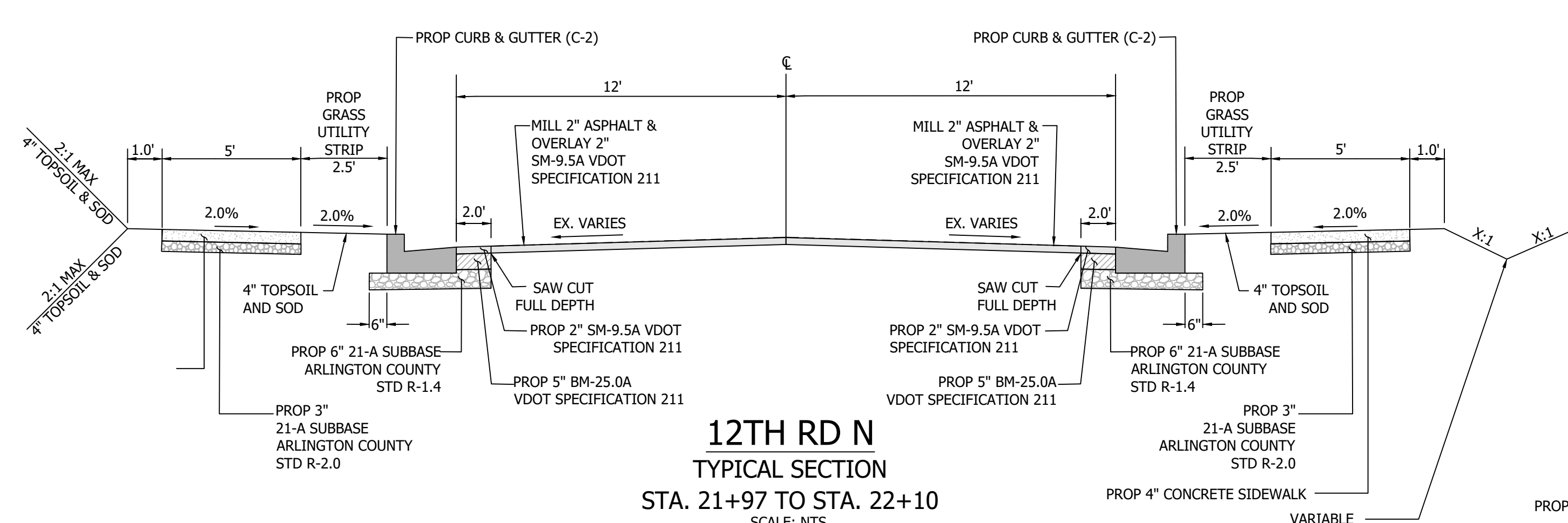
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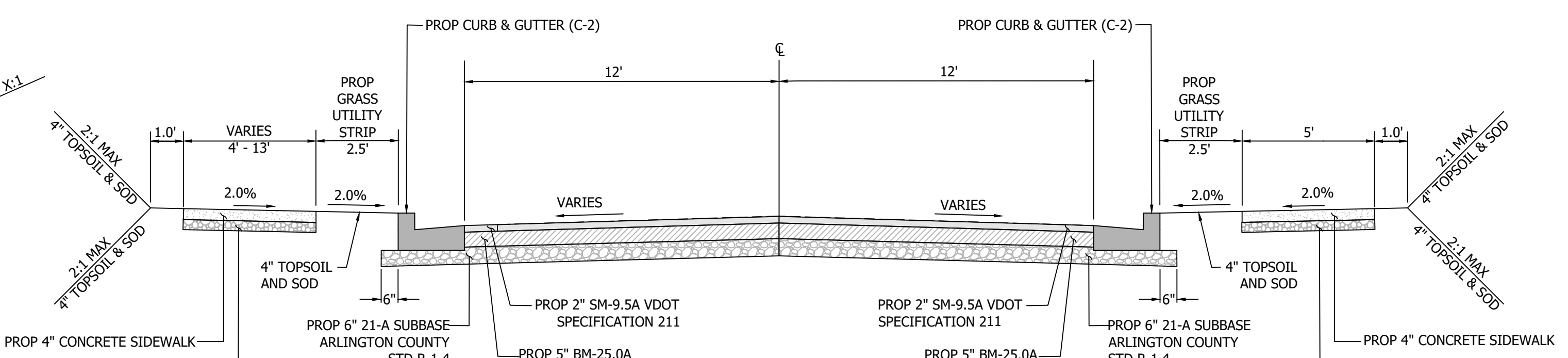
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 D485
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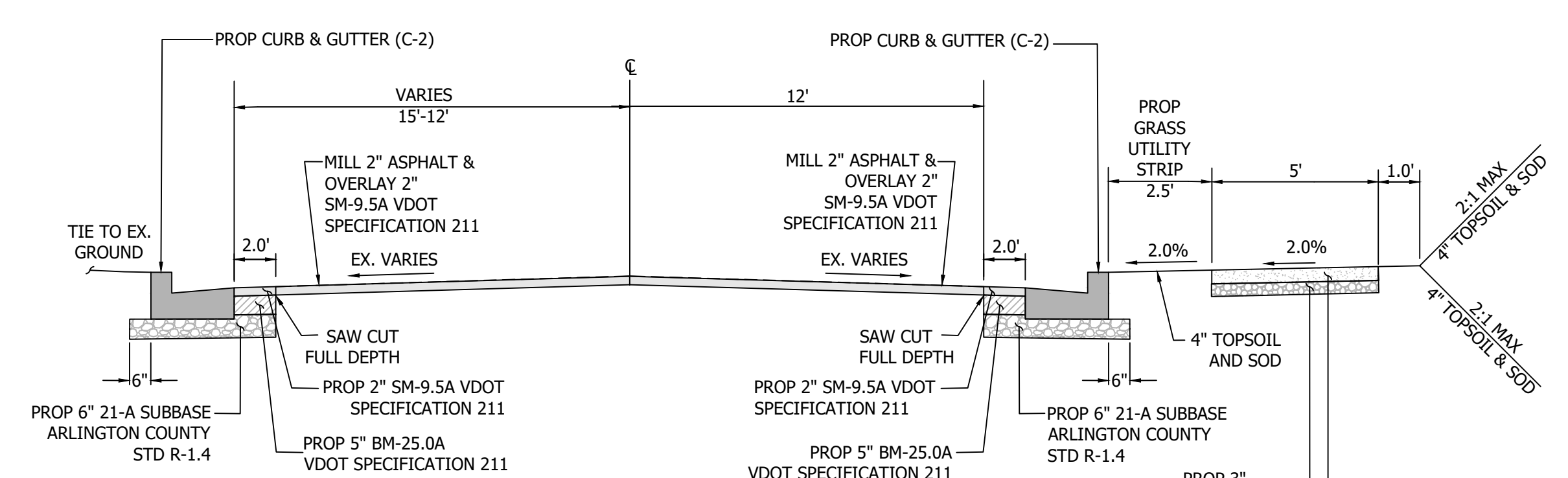
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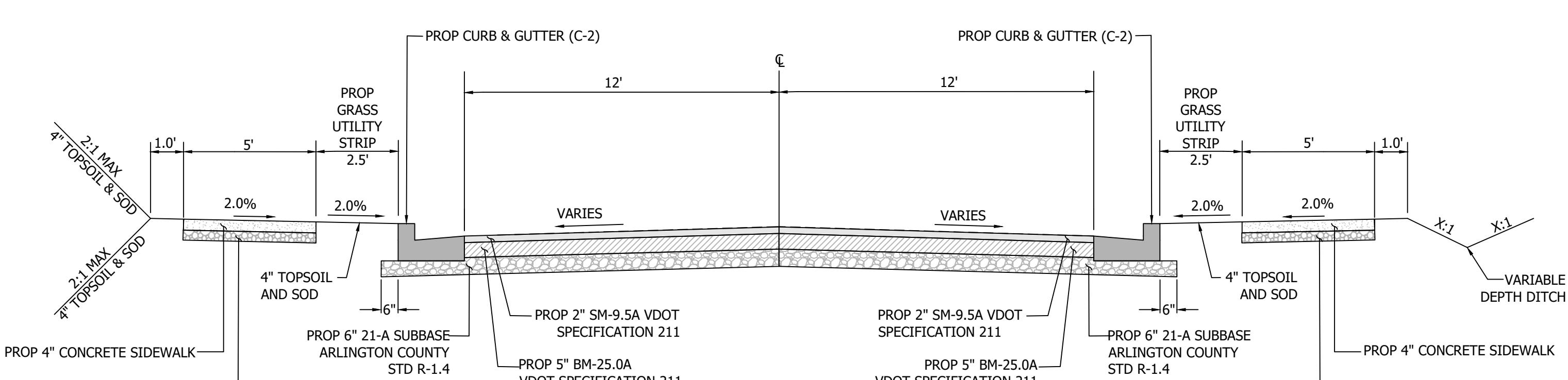
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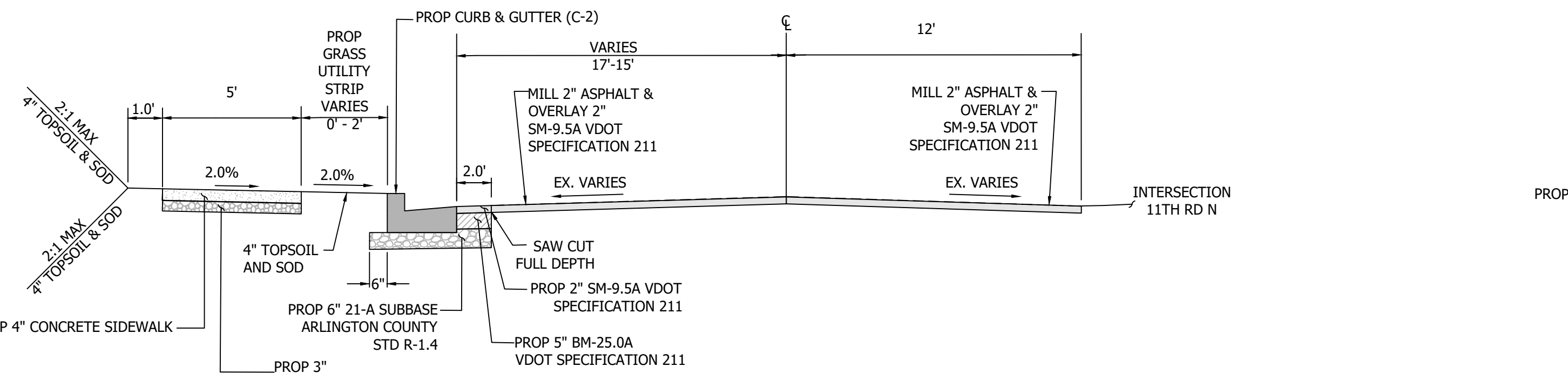
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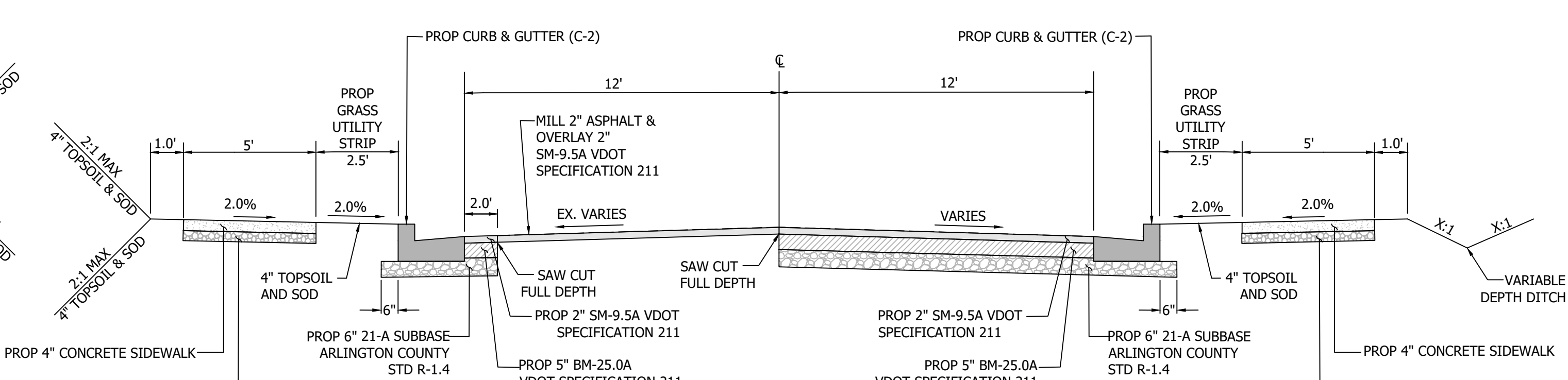
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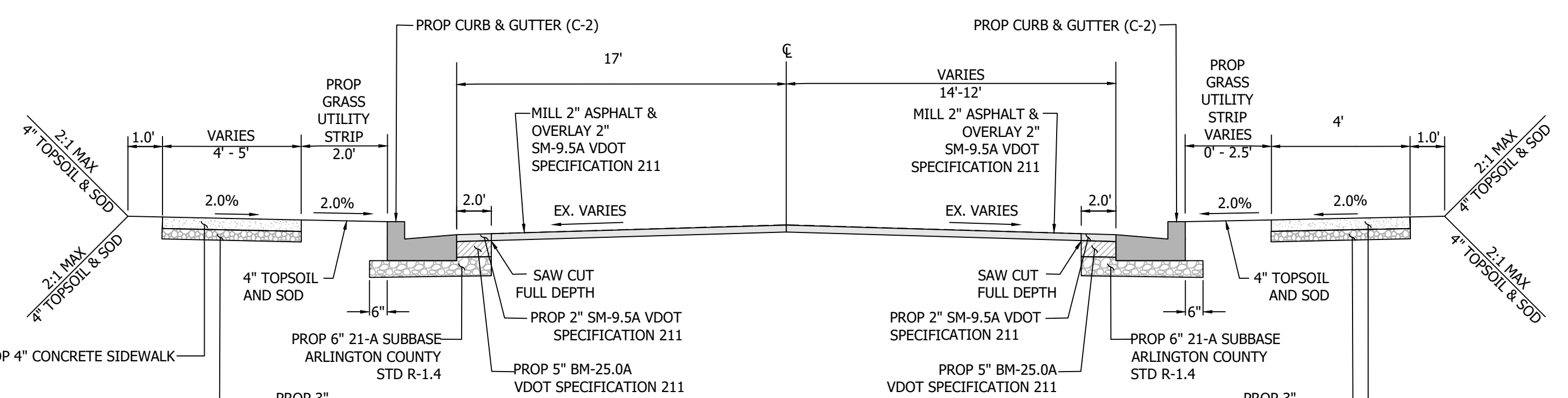
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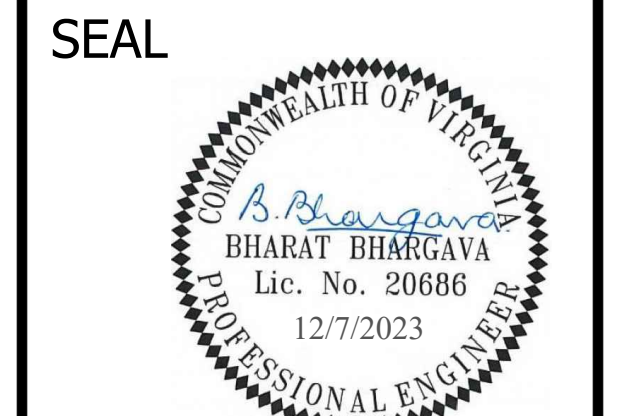
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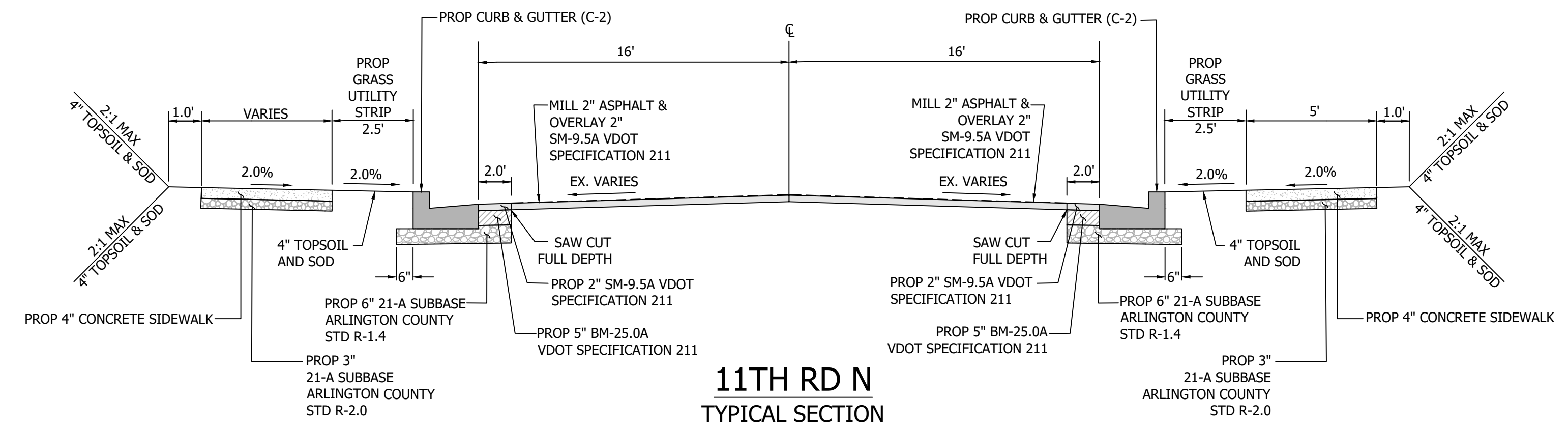


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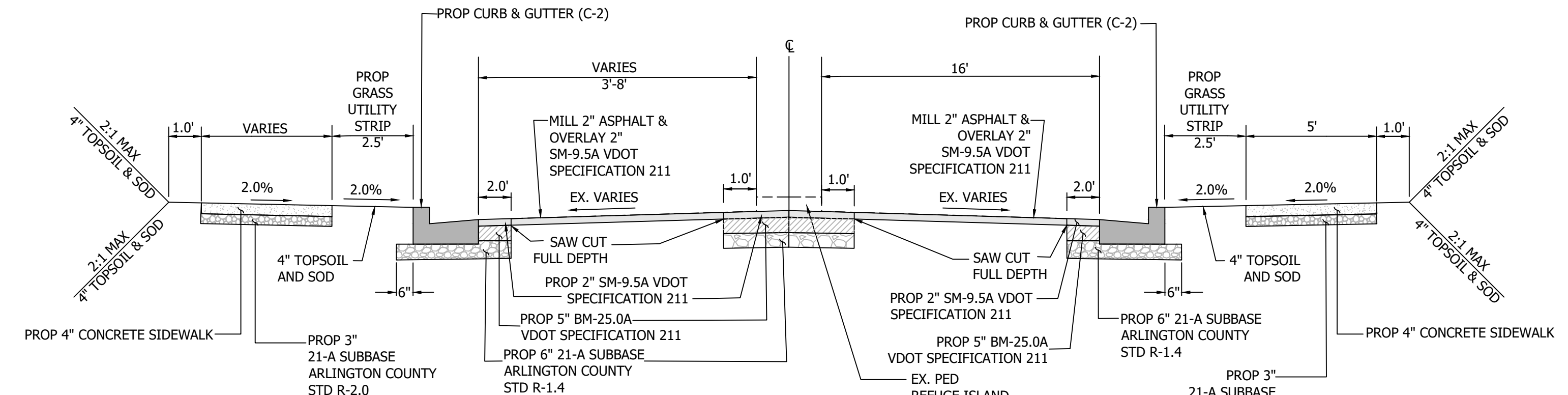
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N OHIO ST AND 12TH RD N INTERSECTION
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TYPICAL SECTIONS - 2

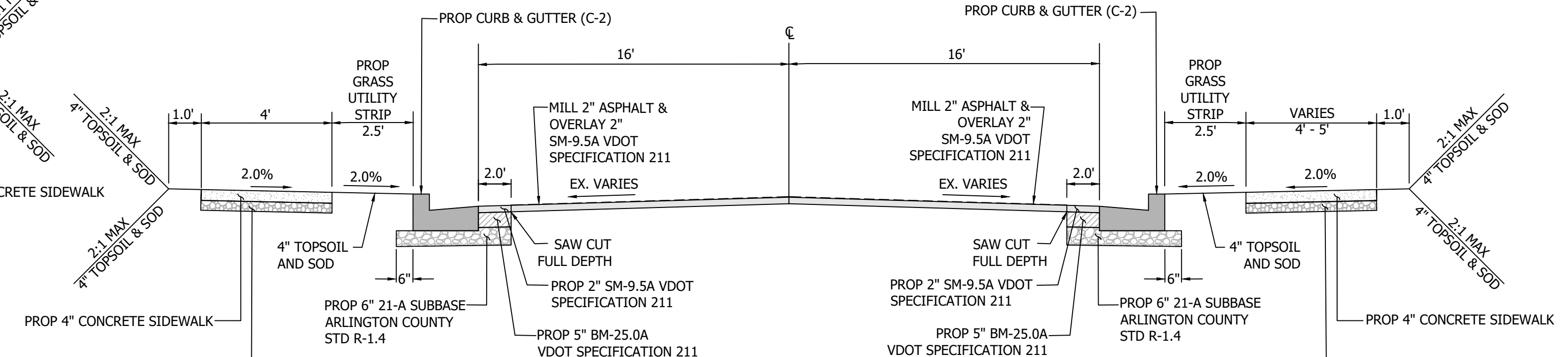
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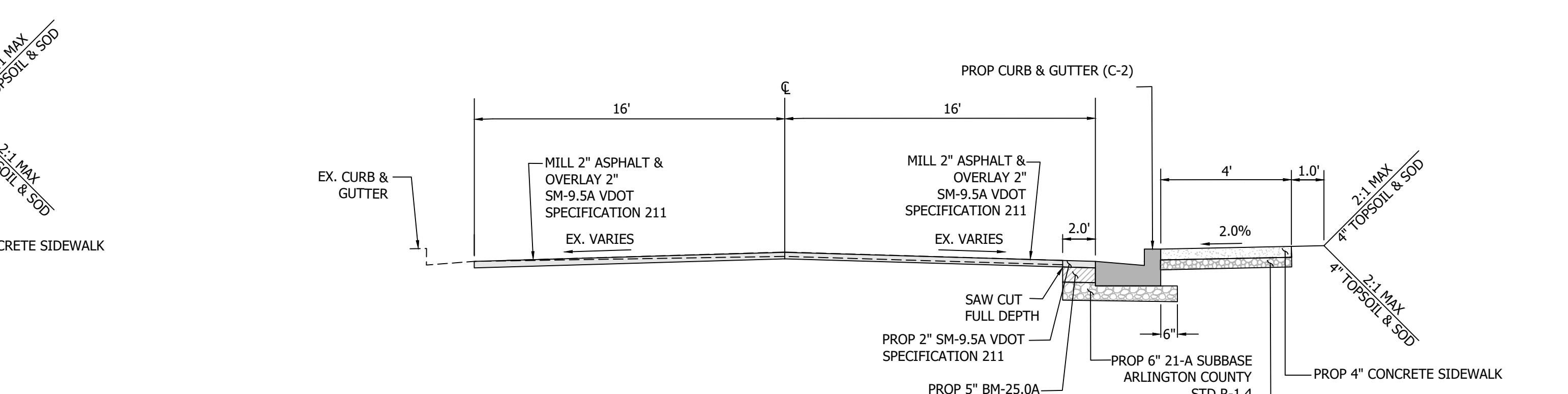
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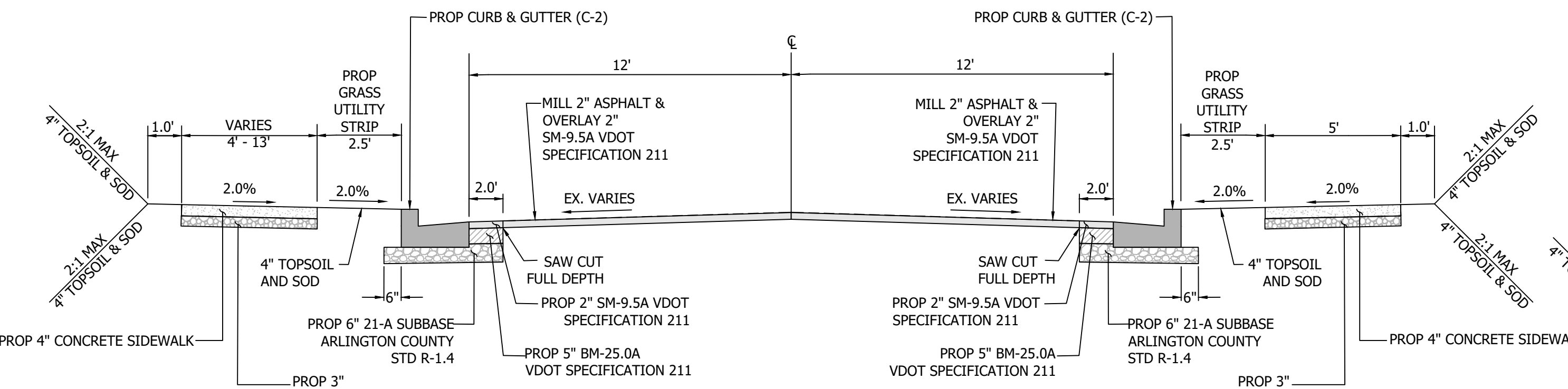
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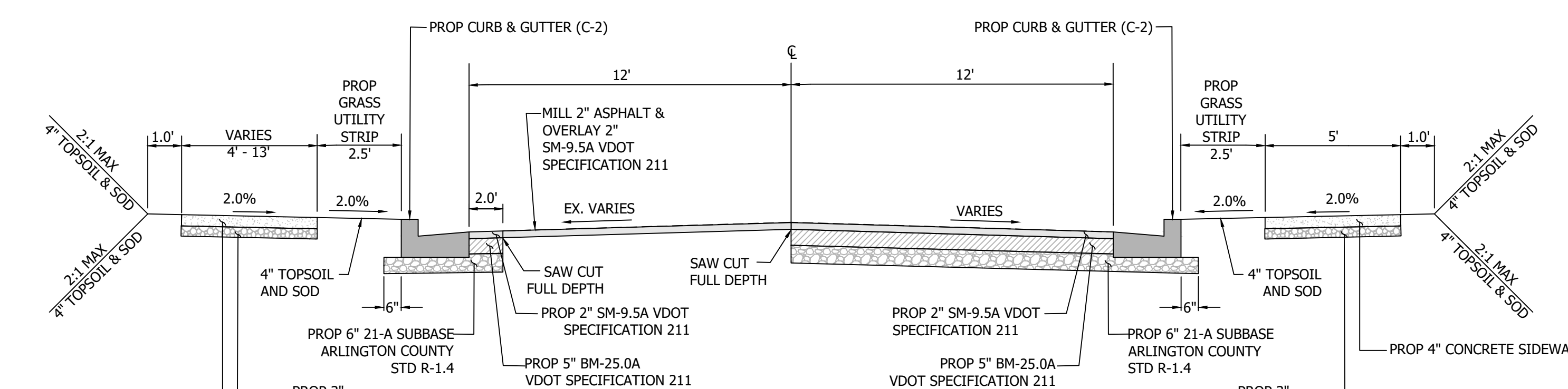
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11TH RD N
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12TH RD N
TYPICAL SECTION
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SCALE: NTS



12TH RD N
TYPICAL SECTION
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SCALE: NTS



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CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
 TYPICAL SECTIONS - 3

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG
 PLOTTED: DECEMBER 21, 2023

SCALE:
 NOT TO SCALE

LINETYPE LEGEND

Table with columns: FEATURE, EXISTING, PROPOSED. Lists various features like BUILDING, CENTERLINE / BASELINE, COMMUNICATIONS CABLE, etc., with their corresponding line styles for existing and proposed states.

SYMBOL LEGEND

Table with columns: EXISTING FEATURE, PROPOSED FEATURE. Lists features like EX CABLE PEDESTAL, EX ELECTRIC BOX, EX FIRE HYDRANT, etc., with their corresponding symbols.

LABEL LEGEND

Table with columns: EXISTING, PROPOSED. Lists labels for EXISTING SANITARY STRUCTURE NUMBER and EXISTING STORM SEWER STRUCTURE NUMBER with their corresponding label symbols.

HATCH LEGEND

Table with columns: EXISTING, PROPOSED. Lists hatching patterns for features like PROP MILL & OVERLAY, PROP FULL DEPTH ASPHALT, PROP CONCRETE, etc.



Table with columns: APPROVALS, DATE. Lists signatures and dates for Design Team Engineer Supervisor, Construction Management Supervisor, Water, Sewer, Streets Bureau Chief, and Engineering Bureau Chief.

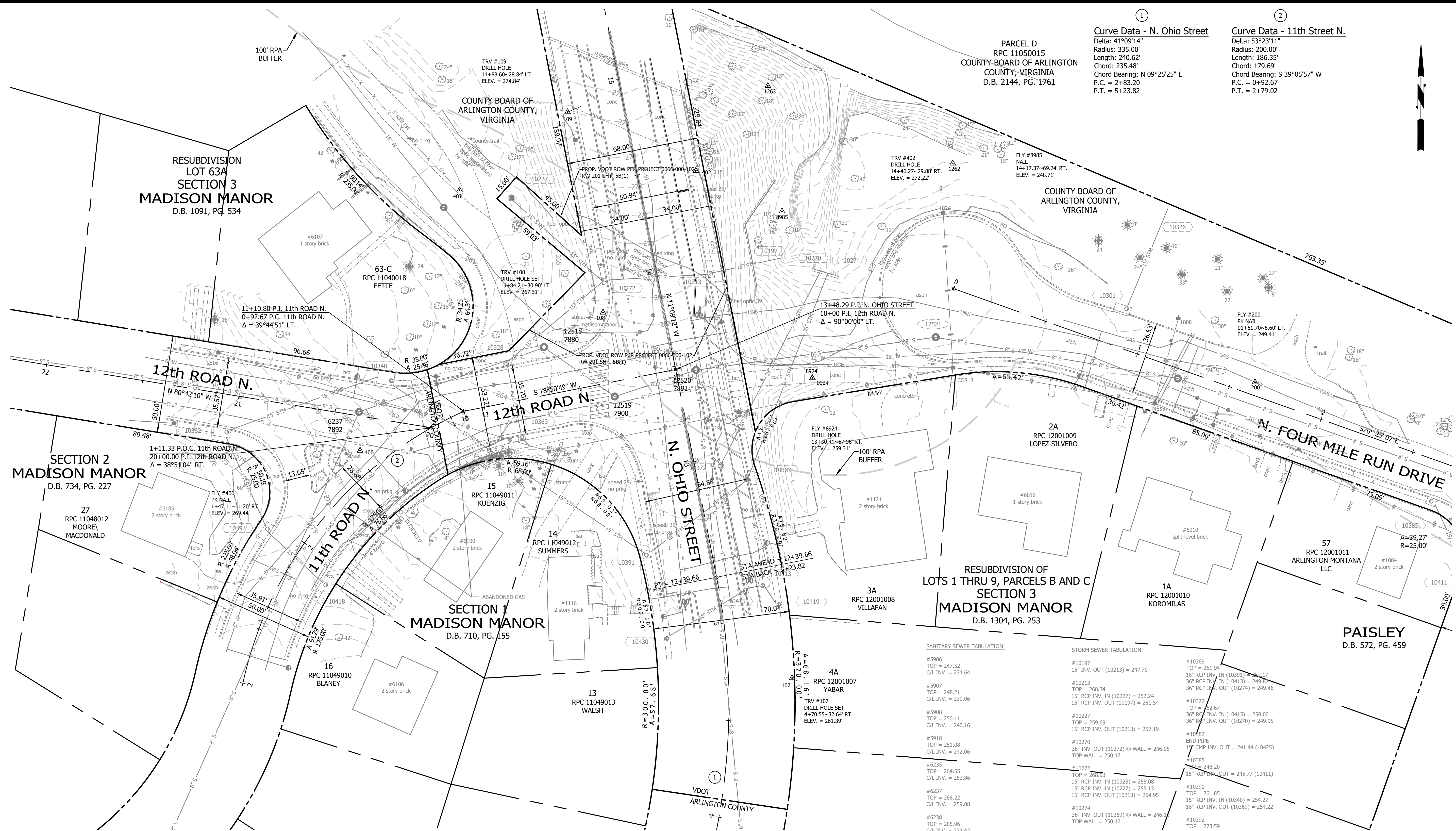
Table with columns: REVISIONS, DATE. A table for tracking design revisions.

Vertical text block containing 'N OHIO ST AND 12TH RD N INTERSECTION D485' and 'LEGEND'.

DESIGNED: BB
DRAWN: MS
CHECKED: BG
PLOTTED: DECEMBER 21, 2023

SCALE: N/A
C006.1

REVISED ON 1/24/2022
 FILENAME: D485-214-EXISTING_CONDITIONS-12TH_RD.DWG PATH: T:\1177200 - MASTER\ARLINGTON COUNTY (CONT)\1177203 - D485 - N OHIO ST AT 12TH RD N07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS SMITH



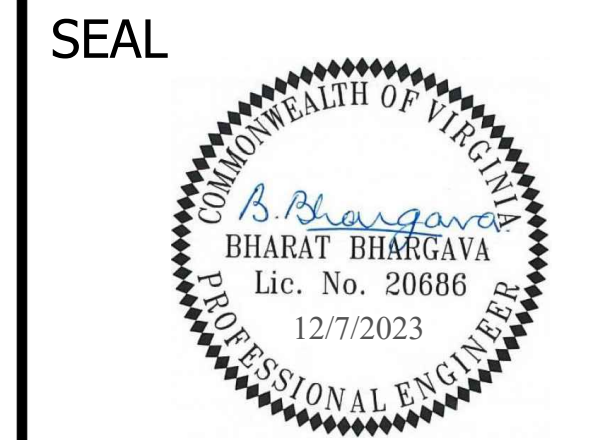
SURVEY CONTROL				
PT	NORTHING	EASTING	ELEVATION	DESCRIPTION
107	7006685.94	11868439.16	261.39	Drill Hole Set
108	7006873.48	11868342.14	267.31	Drill Hole Set
109	7006976.23	11868323.99	274.84	Drill Hole Set
200	7006837.71	11868676.65	249.41	Nail
400	7006802.62	11868217.5	269.44	Nail
401	7006936.18	11868268.57	260.33	Nail
402	7006946.13	11868389.77	272.22	Drill Hole Set
1320	7006784.28	11868824.67	247.52	Nail
8924	7006839.83	11868449.55	259.31	Drill Hole Set
8985	7006925.39	11868433.98	248.71	Nail

GENERAL SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF THE COUNTY SURVEY SECTION FROM AN ACTUAL GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 09/2020 TO 04/2022; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983.
- VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
- CONTOUR INTERVAL: 1'
- BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

SANITARY SEWER TABULATION:		STORM SEWER TABULATION:	
#5906	TOP = 247.52 C/L INV. = 234.64	#10197	15' INV. OUT (10213) = 247.70
#5907	TOP = 248.21 C/L INV. = 239.06	#10213	TOP = 268.34 15' RCP INV. IN (10227) = 252.24 15' RCP INV. OUT (10197) = 251.54
#5908	TOP = 250.11 C/L INV. = 240.16	#10227	TOP = 259.69 15' RCP INV. OUT (10213) = 257.19
#5918	TOP = 251.08 C/L INV. = 242.06	#10270	36" INV. OUT (10372) @ WALL = 246.05 TOP WALL = 250.47
#6235	TOP = 264.55 C/L INV. = 253.86	#10272	TOP = 248.20 15' RCP INV. OUT = 245.77 (10411)
#6237	TOP = 268.22 C/L INV. = 259.08	#10391	TOP = 261.85 15' RCP INV. IN (10340) = 254.27 18' RCP INV. OUT (10369) = 254.22
#6238	TOP = 285.96 C/L INV. = 274.42	#10392	TOP = 273.59 15' RCP INV. IN (10418) = 269.09 15' RCP INV. OUT (10362) = 268.33
#6244	TOP = 284.37 C/L INV. = 237.92	#10411	TOP = 249.53 15' RCP INV. IN = 245.33 (10385) 15' RCP INV. OUT = 245.13 (10425)
#12521	TOP = 252.02 C/L INV. = 242.42	#10413	TOP = 261.01 36" RCP INV. OUT (10369) = 251.35 18" RCP INV. IN (10419) = 251.41 27" RCP INV. IN (10415) = 252.32
#12518	TOP = 264.44 C/L INV. = 250.45	#10415	TOP = 261.35 30" RCP INV. IN (10453) = 251.99 18" RCP INV. IN (10430) = 252.05 27" RCP INV. OUT (10413) = 252.60 36" RCP INV. OUT (10372) NOT ACCESSIBLE INVERT PER PLAN = 250.70
#12519	TOP = 264.58 C/L INV. = 247.52	#10418	TOP = 274.04 15' RCP INV. OUT (10392) = 269.76
#12520	TOP = 265.16 C/L INV. = 245.78	#10419	TOP = 261.16 18" RCP INV. IN (10434) = 252.93 18" RCP INV. OUT (10413) = 252.81
		#10425	TOP = 249.47 15' RCP INV. IN = 244.78 (10411) 15' RCP INV. OUT = 244.50 (10382)
		#10430	TOP = 261.21 18" RCP INV. OUT (10415) = 255.06

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
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 PHONE: 703.228.3629
 FAX: 703.228.3606
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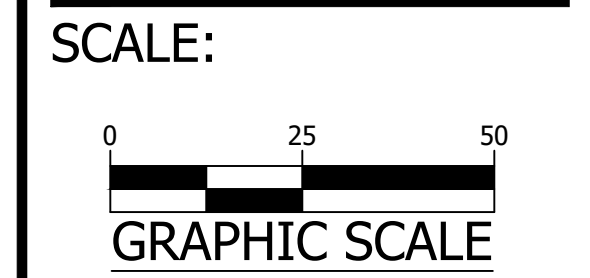
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	1/12/2024
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	1/11/2024
<i>[Signature]</i>	1/12/2024
WATER, SEWER, STREETS BUREAU CHIEF	1/12/2024
<i>[Signature]</i>	12/18/2023
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

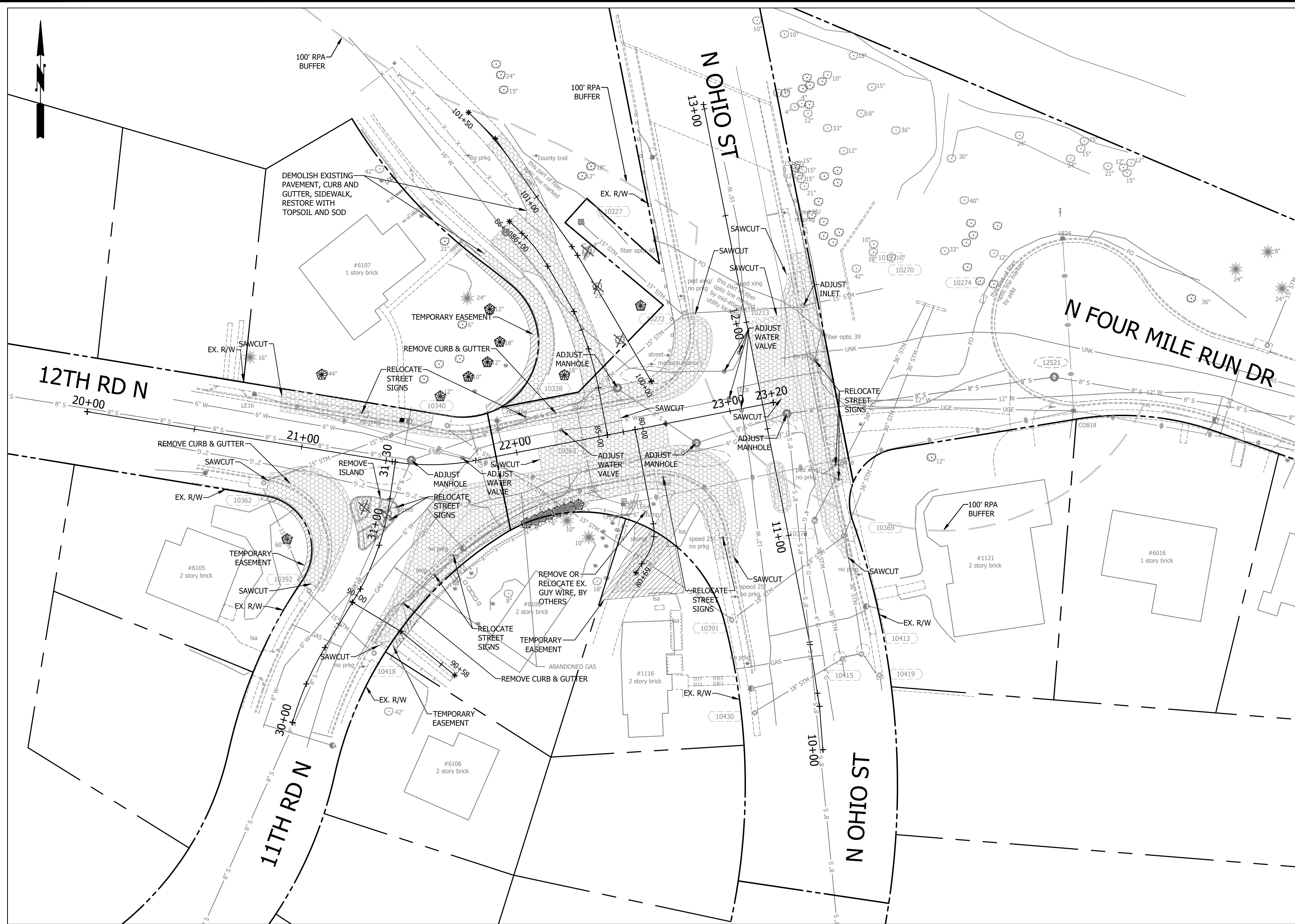
N OHIO ST AND 12TH RD N INTERSECTION
 D485
 EXISTING CONDITIONS PLAN

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023



C011.1



NOTES:

1. CONTRACTOR SHALL PROTECT EXISTING POLES, UTILITIES, AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION.
2. EXISTING UNDERGROUND UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL ADJUST ALL STRUCTURE TOPS TO THE PROPOSED GRADE PER ARLINGTON COUNTY DETAILS & SPECIFICATIONS AND IN COORDINATION WITH UTILITY OWNERS.
3. EXISTING TRAFFIC SIGNALS SHALL BE PROTECTED DURING PROJECT CONSTRUCTION. CONTRACTOR TO FOLLOW SIGNAL PLANS FOR REMOVAL OF SIGNS, SIGNAL HEADS, FOUNDATIONS, POLES, ETC.
4. EXISTING STREET LIGHTS TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED. REMOVED ARLINGTON COUNTY STREET LIGHT POLES AND FIXTURES SHALL BE RETURNED TO THE COUNTY. CONTACT ARLINGTON COUNTY DIVISION OF TRANSPORTATION AT 703-228-6570. REFER TO STREET LIGHTING PLAN SHEETS.
5. SIDEWALK/BRICK HARDSCAPE AND LANDSCAPING WITHIN THE PROPOSED PROJECT AREA SHALL BE RESTORED TO THE EXISTING CONDITION EQUAL OR BETTER.
6. EXISTING STREET SIGNS REMOVAL. PAVEMENT MARKING ERADICATION AND RESTORATION SHALL BE PERFORMED PER SIGNING AND PAVEMENT MARKING PLAN.
7. ALL CONSTRUCTION AND DEMOLITION DEBRIS WITHIN THE SHOWN LIMITS INCLUDING ASPHALT MILLING AND TRAFFIC SIGNAL RENOVATION SHALL BE REMOVED AND HAULED TO WASTE UNLESS OTHERWISE NOTED.
8. WHERE EXISTING PAVEMENT IS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONE OF A TREE, LEAVE PAVEMENT IN PLACE AS LONG AS POSSIBLE DURING CONSTRUCTION. REMOVE PAVEMENT WITH THE ROLLBACK TECHNIQUE, KEEP EQUIPMENT ON PAVING, AND LIMIT OVERDIG. ONCE PAVEMENT HAS BEEN REMOVED, VEHICULAR TRAFFIC IS STRICTLY PROHIBITED UNTIL PAVING IS REPLACED. REPLACED PAVING SHOULD HAVE NO COMPACTION BEYOND 85%. COORDINATE WITH THE URBAN FORESTER WHEN PROCESS OR CONSTRUCTION DETAILS CAN'T FOLLOW THIS SPECIFICATION. THIS NOTE DOES NOT APPLY TO ROADWAYS UNLESS SPECIFICALLY CALLED OUT ON PLAN.

DEMOLITION KEY NOTES:

CAUTION: POTENTIAL UNDERGROUND UTILITY CONFLICT. THE PROVIDED TEST HOLE/PIT DATA IS APPROXIMATE. THE CONTRACTOR, IF NECESSARY, SHALL FIELD VERIFY (TEST PIT) EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITY.

1. THE DEMOLITION AREAS SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING/ABANDONING ALL FEATURES WITHIN THE THE LOD IN ORDER TO COMPLETED THE PROPOSED IMPROVEMENTS.
2. DEMOLITION IS INCIDENTAL TO THE WORK PROPOSED WITHIN THESE PLANS.
3. IF CONCRETE PAVEMENT IS FOUND UNDER THE EXISTING ROADWAY, ITS REMOVAL IS CONSIDERED INCIDENTAL TO THE PROPOSED WORK.

USE OF LARGE EQUIPMENT (HOE RAMS, VIBRATORY ROLLERS, ETC.) SHALL NOT BE PERMITTED WITHIN 5 FEET OF UNDERGROUND STRUCTURES.

LEGEND

- TREE PROTECTION (SEE SHEET C092.1 FOR LOCATION OF FENCING)
- EXISTING TREE TO BE REMOVED
- DEMOLITION AREA
- TEMPORARY CONSTRUCTION EASEMENT

ARLINGTON VIRGINIA
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SEAL



APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS

REVISIONS	DATE

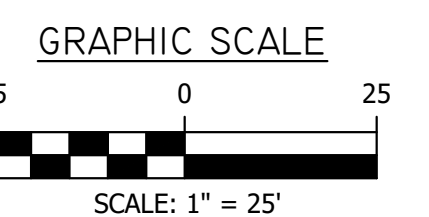
N OHIO ST AND 12TH RD N INTERSECTION
D485

DEMOLITION PLAN

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

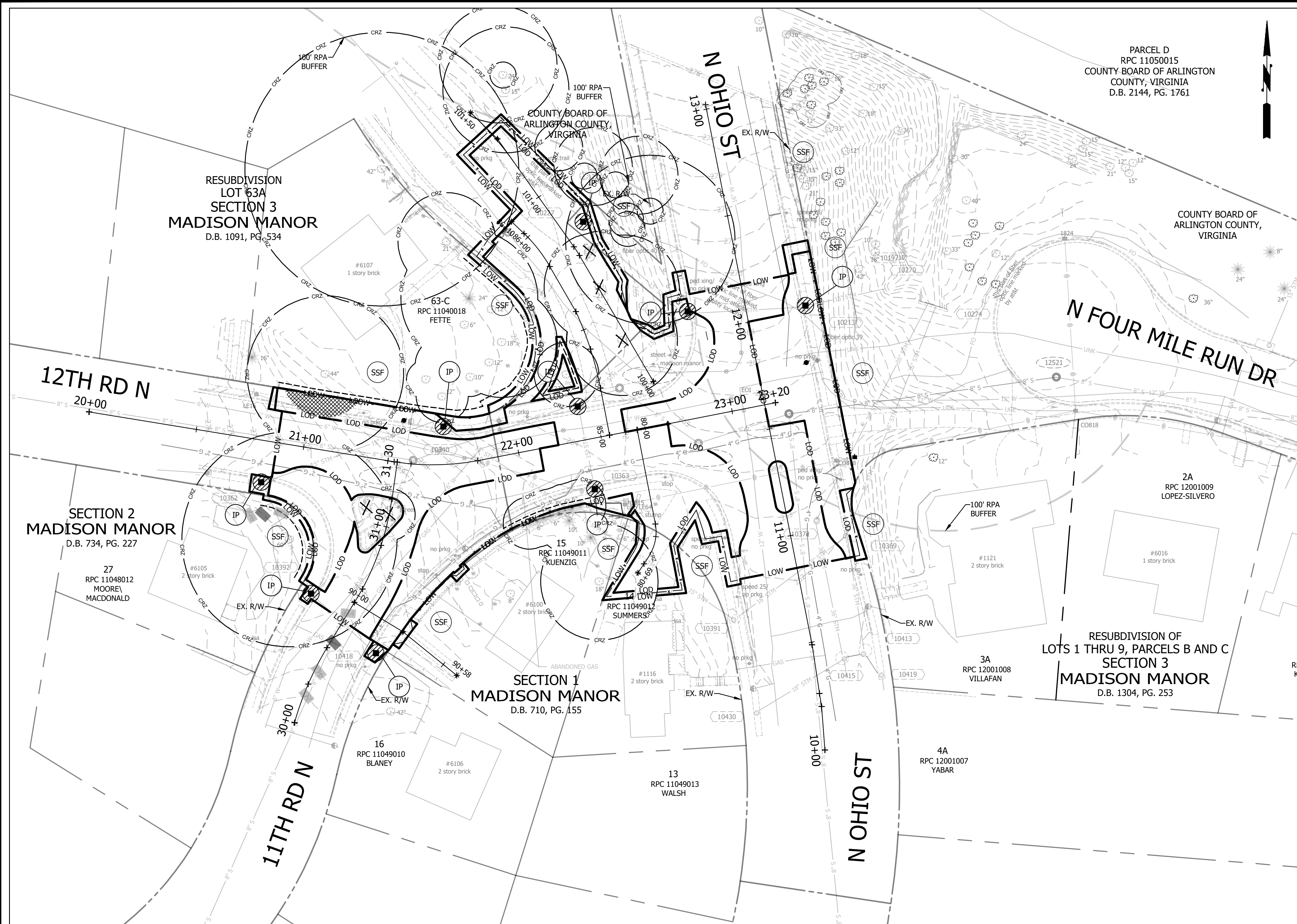
PLOTTED: DECEMBER 21, 2023

SCALE:



REVISED ON 1/24/2022

FILENAME: D485-224-E_AND_S_PLAN.DWG PATH: T:\1177200 - MASTER-ARLINGTON COUNTY (CONT)\1177200 - D485 - N OHIO ST AT 12TH RD N\07 DESIGN\DWG\DESIGN\ACTIVE PLOTTED BY: MORRIS.SMITH



PARCEL D
RPC 11050015
COUNTY BOARD OF ARLINGTON
COUNTY, VIRGINIA
D.B. 2144, PG. 1761

COUNTY BOARD OF
ARLINGTON COUNTY,
VIRGINIA

RESUBDIVISION OF
LOTS 1 THRU 9, PARCELS B AND C
SECTION 3
MADISON MANOR
D.B. 1304, PG. 253

RESUBDIVISION
LOT 63A
SECTION 3
MADISON MANOR
D.B. 1091, PG. 534

SECTION 2
MADISON MANOR
D.B. 734, PG. 227

SECTION 1
MADISON MANOR
D.B. 710, PG. 155

EROSION AND SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL USE THE APPROPRIATE COVERS FOR THE STOCKPILED MATERIALS STORED OVERNIGHT ON THE CONSTRUCTION SITE TO PREVENT SOIL AND/OR DEBRIS FROM BEING WASHED OR BLOWN AWAY.
- CONTRACTOR SHALL INSTALL CONTROL DEVICES, SUCH AS DRIP PADS/SPILL PANS, TO CAPTURE EQUIPMENT LEAKS AND PREVENT VEHICLE FLUID FROM GETTING ONTO UNDERLYING PAVEMENT.
- CONTRACTOR SHALL HAVE DESIGNATED CONCRETE WASHOUT AREA AND A CONCRETE WASHOUT PLAN IN PLACE PRIOR TO THE BEGIN OF CONCRETE WORK.
- CONTRACTOR SHALL USE A WET VACUUM TO COLLECT LIQUID WASTE SUCH AS SAW CUT SLURRY. INLET PROTECTIONS SHALL BE USED TEMPORARILY DURING SAW CUTTING OPERATIONS AND REMOVED AT THE END OF EACH WORKDAY AT ALL INLETS WITHIN THE RIGHT OF WAY.
- CONTRACTOR SHALL CONDUCT GOOD HOUSEKEEPING EFFORTS TO KEEP SEDIMENT, TRASH, AND OTHER POLLUTANTS FROM ENTERING STORM DRAINS.
- FOR TREE PROTECTION FENCE, SEE SHEET C092.1

EROSION AND SEDIMENT CONTROL LEGEND

3.05	TEMPORARY SILT FENCE (WITH WIRE SUPPORT)	SSF	— x —
3.07	STORM DRAIN INLET PROTECTION	IP	⊕
	SUPESONIC AIRTOOL EXCAVATION AREA (SEE SHEET C092.1)		▨
	TREE PROTECTION FENCE (SEE DETAIL 311300.1)		---
	CRITICAL ROOT ZONE		— CRZ —
	LIMITS OF DISTURBANCE		— LOD —
	LIMITS OF WORK		— LOW —

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APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

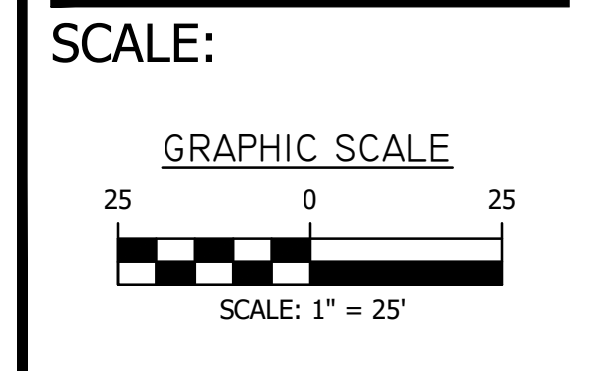
REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D-485

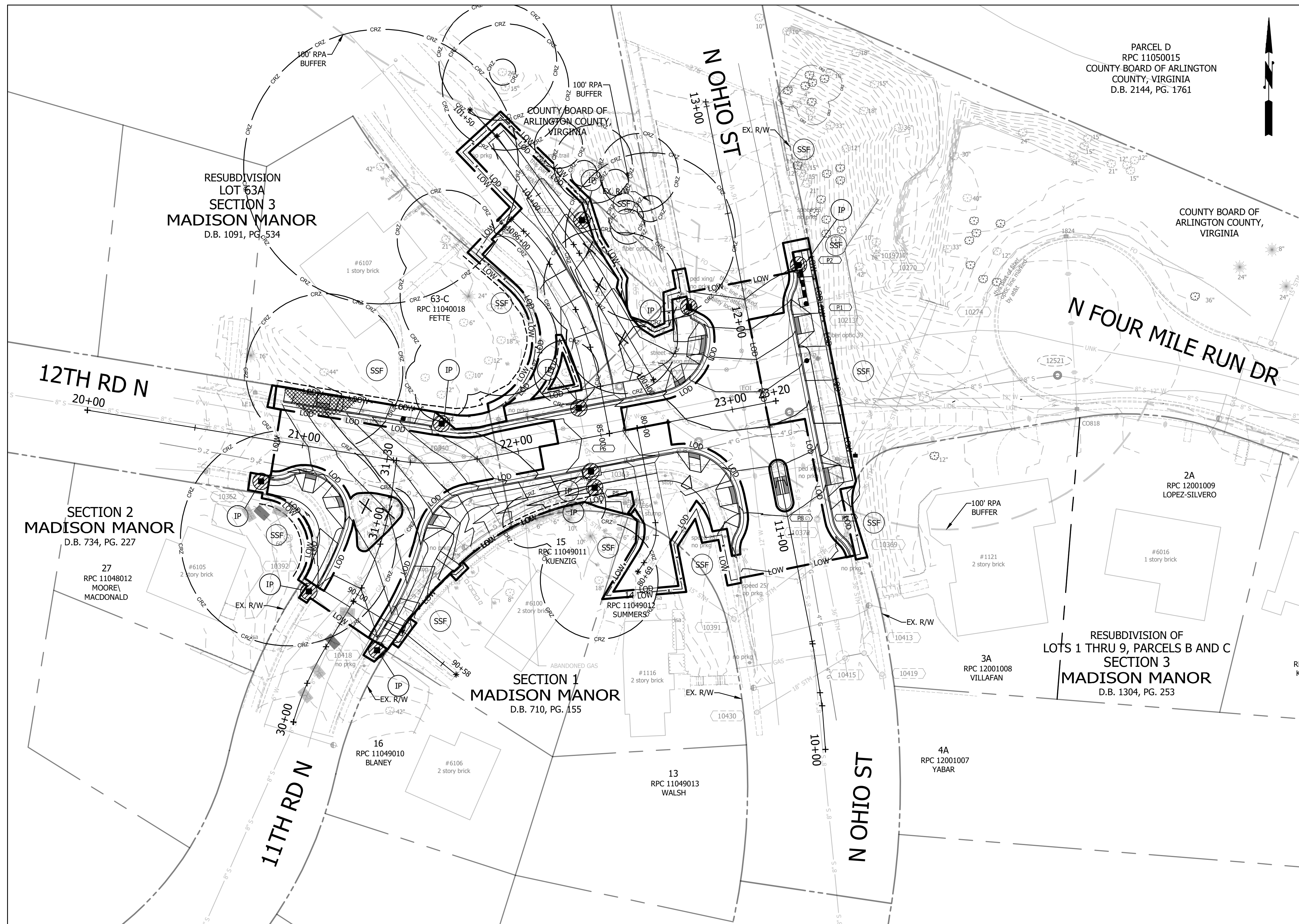
**EROSION AND SEDIMENT CONTROL PLAN
PHASE 1**

DESIGNED: BB
DRAWN: MS
CHECKED: BG

PLOTTED: DECEMBER 29, 2023



C031.1



EROSION AND SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL USE THE APPROPRIATE COVERS FOR THE STOCKPILED MATERIALS STORED OVERNIGHT ON THE CONSTRUCTION SITE TO PREVENT SOIL AND/OR DEBRIS FROM BEING WASHED OR BLOWN AWAY.
- CONTRACTOR SHALL INSTALL CONTROL DEVICES, SUCH AS DRIP PADS/SPILL PANS, TO CAPTURE EQUIPMENT LEAKS AND PREVENT VEHICLE FLUID FROM GETTING ONTO UNDERLYING PAVEMENT.
- CONTRACTOR SHALL HAVE DESIGNATED CONCRETE WASHOUT AREA AND A CONCRETE WASHOUT PLAN IN PLACE PRIOR TO THE BEGIN OF CONCRETE WORK.
- CONTRACTOR SHALL USE A WET VACUUM TO COLLECT LIQUID WASTE SUCH AS SAW CUT SLURRY.
- INLET PROTECTIONS SHALL BE USED TEMPORARILY DURING SAW CUTTING OPERATIONS AND REMOVED AT THE END OF EACH WORKDAY AT ALL INLETS WITHIN THE RIGHT OF WAY.
- CONTRACTOR SHALL CONDUCT GOOD HOUSEKEEPING EFFORTS TO KEEP SEDIMENT, TRASH, AND OTHER POLLUTANTS FROM ENTERING STORM DRAINS.

EROSION AND SEDIMENT CONTROL LEGEND

3.05	TEMPORARY SILT FENCE (WITH WIRE SUPPORT)	SSF	
3.07	STORM DRAIN INLET PROTECTION	IP	
	SUPersonic AIRTOOL EXCAVATION AREA (SEE SHEET C092.1)		
	TREE PROTECTION FENCE (SEE DETAIL 311300.1)		
	CRITICAL ROOT ZONE	CRZ	
	LIMITS OF DISTURBANCE	LOD	
	LIMITS OF WORK	LOW	



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APPROVALS DATE

	1/11/2024
	1/12/2024
	1/11/2024
	1/12/2024
	12/18/2023

REVISIONS DATE

N OHIO ST AND 12TH RD N INTERSECTION

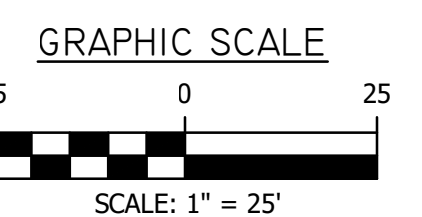
D-485

EROSION AND SEDIMENT CONTROL PLAN
PHASE 2

DESIGNED: BB
DRAWN: MS
CHECKED: BG

PLOTTED: DECEMBER 29, 2023

SCALE:



EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THE OHIO STREET AND 12TH ROAD N INTERSECTION IMPROVEMENTS PROJECT CONSISTS OF INTERSECTION IMPROVEMENTS AT THE INTERSECTIONS OF N OHIO ST/12TH ROAD N AND 12TH ROAD N/11TH ROAD N AND TRAIL REALIGNMENTS AT THE NORTHWEST CORNER OF N OHIO ST/12TH ROAD N AND ON THE EAST SIDE OF N OHIO ST LOCATED IN ARLINGTON COUNTY, VIRGINIA. THE PROPOSED INTERSECTION AND TRAIL IMPROVEMENTS PROJECT WILL HELP IMPROVE PEDESTRIAN ACCESSIBILITY. THE TOTAL PROJECT WORK AREA IS 30,953 SF (0.7106 AC), WITH 17,291 SF (0.3969 AC) SUBJECT TO LAND DISTURBING ACTIVITY. THE IMPERVIOUS AREA WILL BE INCREASED BY THE PROPOSED IMPROVEMENT.

PROJECT WORK INCLUDES:

- INTERSECTION IMPROVEMENTS
- TRAIL REALIGNMENTS AND ADA COMPLIANT RAMPS
- REMOVING AND INSTALLING OF STORMWATER DRAINAGE SYSTEMS
- REMOVING AND INSTALLING OF NEW CURB & GUTTER
- SIGNING AND PAVEMENT MARKINGS

EXISTING SITE CONDITIONS:

THE PROJECT IS LOCATED AT THE INTERSECTION OF N OHIO ST AND 12TH ROAD N. THE ROADWAY IS A LOCAL ROAD WITH THE CLASSIFICATION OF ARTERIAL RESIDENTIAL. THE SITE IS LOCATED WITH IN POTOMAC RIVER-FOUR MILE RUN SUB- WATERSHED WITH THE 8 DIGIT HYDROLOGIC UNIT CODE (HUC) OF 02070010 AND IT HAS HYDROLOGY SOIL GROUP OF MAINLY D. THE SOIL TYPE IS "URBAN LAND-GLENELG COMPLEX." THE SITE HAS SLOPES UP TO APPROX. 15%.

ADJACENT PROPERTIES:

THERE ARE NUMEROUS RESIDENTIAL PROPERTIES SURROUNDING THE PROJECT SITE. WHERE ADJACENT AREAS ARE AT A LOWER ELEVATION, SILT FENCE IS PROPOSED TO BE USED AS A PERIMETER CONTROL.

OFF-SITE AREAS:

A MINIMAL AMOUNT OF OFFSITE BORROW MAY BE REQUIRED FOR TOPSOIL IN PROJECT SITE. THE LOCATION AND ENSURING MAINTENANCE OF THE BORROW AREAS IS THE CONTRACTOR'S RESPONSIBILITY.

CRITICAL AREAS:

THERE IS DELINEATED FLOODPLAIN AND RESOURCE PROTECTION AREA WITHIN THE PROJECT LIMIT. DISTURBED AREAS SHALL BE MONITORED ROUTINELY FOR SIGNS OF EROSION, AND TEMPORARY STABILIZATION SHALL BE PUT IN PLACE AS NEEDED. PERIMETER CONTROLS, PARTICULARLY INLET PROTECTION, SHALL BE MONITORED FREQUENTLY AND CLEARED AS NEEDED. THE PROJECT AREA IS HIGHLY DEVELOPED AND WELL GRADED AND THE PROPOSED IMPROVEMENT WILL NOT INCREASE THE EXISTING IMPERVIOUS FOOT PRINT.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA SHALL INCLUDE PERIMETER CONTROLS SUCH AS SILT FENCE TO PREVENT SILTY WATER FROM LEAVING THE SITE, DIVERSION DIKES TO PREVENT RUNOFF FROM ENTERING THE SITE, INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING THE EXISTING STORM SEWER SYSTEM, ROCK CHECK DAMS TO TRAP SEDIMENT AND REGULATE FLOW, AND STABILIZATION WITH SOD, MULCH, OR SEEDING AND STRAW OR HAY. TURBIDITY CURTAIN IS PROPOSED AT THE OUTFALL TO FOUR MILE RUN. FOR SPECIFICS REGARDING INSTALLATION, MAINTENANCE, INSPECTION, AND REMOVAL, REFER TO OTHER SECTIONS OF THIS NARRATIVE AND THE PLANS.

PERMANENT STABILIZATION:

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, MULCH OR SOD. SEE THE PROPOSED PLANS FOR ADDITIONAL INFORMATION.

STORMWATER RUNOFF CONSIDERATIONS:

THERE WILL BE A MINOR INCREASE IN IMPERVIOUS AREA TO THIS PROJECT.

TOTAL LAND DISTURBANCE.....= 17,291 SF (0.3969 AC)
 PRE-IMPROVEMENT IMPERVIOUS AREA.....= 13,083 SF (0.3003 AC)
 PRE-IMPROVEMENT PERVIOUS AREA.....= 4,208 SF (0.0966 AC)
 POST-IMPROVEMENT IMPERVIOUS AREA....= 12,082 SF (0.2773 AC)
 POST-IMPROVEMENT PERVIOUS AREA.....= 5,209 SF (0.1196 AC)
 INCREASED IMPERVIOUS AREA.....= -1,001 SF (-0.0230 AC)

SOILS INFORMATION:

THE FOLLOWING SOIL INFORMATION IS LISTED BELOW

SOIL #:	SOIL NAME:	HYDROLOGIC GROUP:	ERODABILITY:
10D	URBAN LAND-GLENELG COMPLEX	VARIABLES	N/A

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

THERE ARE FLOODPLAIN OR RESOURCE PROTECTION AREAS LOCATED WITHIN THIS PROJECT SITE

EROSION & SEDIMENT CONTROL PROJECT PHASING

1. EXISTING CONDITION:

- PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, URBAN FORESTER, AND COUNTY INSPECTOR.
- INSTALL INLET PROTECTION (IP) AT STORM DRAIN INLETS.
- PERFORM INITIAL PERIMETER CLEARING TO INSTALL REMAINDER OF PERIMETER CONTROLS SUCH AS SILT FENCE (SF) AND DIVERSION DIKES (DD) WITH CHECK DAMS (CD) PER THE PHASE I PLAN.
- SEED AND MULCH ALL EARTHEN CONTROLS.
- CONTACT ARLINGTON COUNTY PROJECT OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE REMAINDER OF THE SITE IN ORDER TO OBTAIN PHASE II GRADING PERMIT. SEE SHEET C0121.1 FOR SEQUENCE OF CONSTRUCTION PRIOR TO CLEARING SITE.
- REMOVE EXISTING VEGETATION AS REQUIRED WITHIN THE LIMITS OF WORK SHOWN IN THE PLANS. TREE REMOVAL, OTHER THAN WHAT IS SHOWN IN THE PLANS, WILL NOT BE PERMITTED WITHOUT APPROVAL FROM THE URBAN FORESTER & EROSION CONTROL INSPECTOR.

2. PROPOSED CONDITION:

- INLET PROTECTION (IP) SHALL BE PROVIDED AT STORM DRAIN INLETS AFTER INLET MODIFICATIONS ARE COMPLETED.
- ONCE THE SITE IS BROUGHT TO NEAR FINAL GRADE, COMMENCE CONSTRUCTION OF CURB & GUTTER, SIDEWALKS, TRAIL, AND OTHER IMPROVEMENTS.
- THE CONTROL MEASURES MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR.

RUNOFF SHALL BE TREATED WITH SILT FENCE AND INLET PROTECTION PRIOR TO ENTERING MAJOR STORM SEWER SYSTEMS.

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE ARLINGTON COUNTY EROSION AND SEDIMENT CONTROL ORDINANCE. THE MINIMUM STANDARDS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

1. STRUCTURAL PRACTICES

- SILT FENCE - VESCH 3.05
 - SILT FENCE WILL BE INSTALLED WITH THE E&S PLAN TO FILTER RUNOFF FROM DISTURBED AREAS. RUNOFF SHALL NOT BE DIRECTED PARALLEL TO THE INSTALLATION OF SILT FENCE.
 - SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING.
 - SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
 - SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, THEN PREPARED AND SEEDDED.
- STORM DRAIN INLET PROTECTION - VESCH 3.07
 - ALL EXISTING & PROPOSED STORM SEWER INLETS IN AND AROUND THE PROJECT LIMITS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS.
 - THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- TURBIDITY CURTAIN-VESCH 3.27
 - TURBIDITY CURTAIN WILL BE INSTALLED WITH THE E&S PLAN TO PROVIDE SEDIMENTATION PROTECTION FOR A WATERCOURSE FROM

- UP-SLOPE LAND DISTURBANCE OR FROM DREDGING OR FILLING WITHIN THE WATERCOURSE.
- SHOULD REPAIRS TO THE GEOTEXTILE FABRIC BECOME NECESSARY, MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED TO ENSURE THE ADEQUACY OF THE REPAIR.
- WHEN THE CURTAIN IS NO LONGER REQUIRED AS DETERMINED BY THE INSPECTOR, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED IN SUCH A MANNER AS TO MINIMIZE TURBIDITY.

2. VEGETATIVE PRACTICES

- TOPSOILING (STOCKPILE) - VESCH 3.30
 - TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS MAY HAVE TO BE LOCATED OFF-SITE AND ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY E&S PLAN (IF THE STOCKPILE IS LOCATED OFF-SITE). THIS SUPPLEMENTAL PLAN WOULD HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY OFF-SITE ACTIVITY COMMENCES.
- TEMPORARY SEEDING - VESCH 3.31
 - ALL DENUDED AREAS, WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
 - USE TEMPORARY SEEDING SPECIFICATIONS OF THE DEQ EROSION & SEDIMENT CONTROL TECHNICAL BULLETIN NO. 4- TABLE 3.31-B SEE FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES.

TABLE 3.31-B
 (Revised June 2003)
 TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS

SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sep. 1-Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50-100 (lbs/acre)
Feb. 16-Apr.30	Annual Ryegrass (lolium multi-florum)	60-100 (lbs/acre)
May 1 Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME		
. Apply 10-10-10 fertilizer at a rate of 450 lbs./acre (or 10 lbs/ , 1,000 sq.ft.)		
. Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs./ , 1,000 sq. ft)		

NOTE:
 1- A soil test is necessary to detmine the actual amount of lime required to adjust the soil pH of site.
 2. Incorporate the lime and fertizer into the top 4-6 inches of the soil by diskng or by other means.
 3. When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient management for Development Sites at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

- EROSION CONTROL BLANKET AND MULCHING - VESCH 3.36 AND 3.35
 - EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND TO ALLOW SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS AND WILL BE APPLIED AS A SECOND STEP IN SEEDING OPERATION.
- DUST CONTROL - VESCH 3.39
 - DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS SUCH AS VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE BARRIERS, AND CALCIUM CHLORIDE. THE IMPLEMENTATION OF THE DUST CONTROL METHODS SHALL BE INSTALLED PER SECTION 3.39 OF VESCH
- PERMANENT SEEDING - VESCH 3.32
 - SINCE THE SUBJECT SITE IS LOCATED WITHIN THE RESOURCE PROTECTED AREA (RPA), A NATIVE SEED MIX SPECIFIED IN THE TABLE SHOWN AT THE END OF SHEET C032.2 SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.
 - SODDING - VESCH 3.33
 - SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. PRIOR TO LAYING SOD, SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS AND LARGE OBJECTS. QUALITY OF SOD SHALL BE STATE CERTIFIED TO ENSURE GENETIC PURITY AND HIGH QUALITY. SOD SHALL NOT BE LAID ON FROZEN SOIL SURFACE, OR IN EXCESSIVELY WET OR DRY WEATHER. SOD SHALL BE DELIVERED AND INSTALLED WITHIN 36 HOURS, AND SHALL BE INSTALLED PER PAGE III-339 OF VESCH.

THE EROSION AND SEDIMENT CONTROL INSPECTOR SHALL HAVE THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS AS NEEDED IN THE FIELD. IN ADDITION, NO SEDIMENT TRAPS OR BASINS MAY BE REMOVED WITHOUT PRIOR APPROVAL OF THE INSPECTOR.

EROSION AND SEDIMENT CONTROL MANAGEMENT MEASURES

LANDSCAPE / TREE PRESERVATION NOTES

PRIOR TO ANY LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL CONTACT THE ARLINGTON COUNTY ARBORIST TO SCHEDULE AN INSPECTION.

LAND CONSERVATION NOTES:

- NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 100 FEET ARE TO BE OPEN AT ANY ONE TIME.
- ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDDED AND MULCHED WITHIN 5 DAYS AFTER BACKFILLING.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION.
- ANY DISTURBED AREA NOT COVERED BY NOTE 1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOV. 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE AND OVER-SEEDDED BY APRIL 15.
- AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.

EROSION & SEDIMENT CONTROL PROGRAM:

- THE EROSION CONTROL PLAN IS INTENDED TO ESTABLISH ENTRANCES AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF), INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.
- WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL SHALL BE PLACED IN STREAMBEDS. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 7 DAYS SHALL BE SEEDDED AND MULCHED. WHEN SPOIL IS PLACED ON THE DOWNHILL SIDE OF TRENCH, IT SHALL BE BACKSLOPED TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE SHALL OUTLET IN A STABILIZED AREA OR A SEDIMENT TRAPPING DEVICE.
- ALL PRACTICES AND CONTROL DEVICES DESCRIBED HEREIN SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:
 - CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS, AND SHALL WORK THOSE AREAS TO MINIMIZE THE USE OF HEAVY EQUIPMENT. CONTRACTOR SHALL BRING DISTURBED AREAS TO GRADE (ROUGH OR FINISHED) AND STABILIZE THOSE AREAS WITH TEMPORARY OR PERMANENT VEGETATION. THESE DISTURBED AREAS SHALL BE STABILIZED PRIOR TO BEGINNING WORK IN ANOTHER AREA.
 - FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE KEPT ROUGH TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL RE-DIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTURBED AREAS TO STABILIZED OUTLETS.
 - CUT SLOPES SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS (ABOVE THE SLOPE) AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.
- MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. THE INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND/OR THE APPROVAL OF THE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA AND CHAPTER 57 OF THE ARLINGTON COUNTY CODE.
- ALL AREAS, ON OR OFF-SITE, THAT ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS SEED MIXTURE OR SOD THAT IS INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL SLOPES 3:1 AND GREATER SHALL BE RECEIVED SOIL STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS.
- WHERE STREAM CROSSINGS ARE REQUIRED FOR EQUIPMENT, TEMPORARY CULVERTS SHALL BE PROVIDED.
- FOR FURTHER REQUIREMENTS AND DETAILS OF TREE PRESERVATION, PLANTING, EROSION AND SEDIMENT CONTROL, SEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS AND/OR THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
- THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN THE AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ALL BIOFILTERS SHALL BE KEPT OFF-LINE UNTIL CONSTRUCTION IS COMPLETED AND ALL AREAS HAVE BEEN PROPERLY STABILIZED. THIS SHALL BE ACHIEVED BY USING INLET PROTECTION AT THE CURB CUTS AND STORMWATER CATCH BASINS LEADING DIRECTLY INTO THE BIOFILTERS.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

PRE-STORM EROSION & SEDIMENTATION CHECKLIST:

PER GENERAL EROSION AND SEDIMENT CONTROL NOTE 6, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL (ESC) MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE COUNTY. THESE SUPPLEMENTARY PRACTICES ARE IN ADDITION TO THOSE SHOWN IN AN EROSION AND SEDIMENT CONTROL PLAN. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MODIFIED AS NEEDED TO ENSURE ONLY CLEAR WATER IS DISCHARGED FROM THE SITE.

THE FOLLOWING ACTIONS SHALL BE TAKEN PRIOR TO STORM EVENTS WITH PREDICTED HEAVY AND/OR LARGE VOLUME RAINFALL TO PREVENT SEDIMENT DISCHARGES FROM A CONSTRUCTION SITE. A TYPICAL SUMMER THUNDERSTORM IS AN EXAMPLE OF A STORM EVENT WITH PREDICTED HEAVY AND/OR LARGE VOLUME RAINFALL.

- PERIMETER CONTROLS
 - SILT FENCE SHALL BE CHECKED FOR UNDERMINING, HOLES, OR DETERIORATION OF THE FABRIC. FENCING SHALL BE REPLACED IMMEDIATELY IF THE FABRIC IS DAMAGED OR WON. SILT FENCE MUST BE TRENCHED INTO THE GROUND PER STATE SPECIFICATIONS (VESCH STD & SPEC 3.09).
 - WOODEN STAKES OR STEEL POSTS SHALL BE PROPERLY SECURED UPRIGHT INTO THE GROUND. DAMAGED POSTS OR STAKES MUST BE REPLACED.
 - SEDIMENT THAT HAS ACCUMULATED AGAINST THE SILT FENCE SHALL BE REMOVED. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING.
 - HAY BALES OR A STONE BERM SHALL BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
- EXPOSED SLOPES AND SOIL
 - EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH TARPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE PROPERLY SECURED/ANCHORED.
 - CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE. BERMS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT/EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA.
 - EXPOSED SLOPES AT THE FINAL STABILIZATION PHASE SHALL BE STABILIZED USING SLOPE STABILIZATION PRACTICES SUCH AS SOIL STABILIZATION BLANKETS OR MATTING AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH STD & SPEC 3.36). BLANKETS OR MATS MUST BE PROPERLY SECURED AND ANCHORED TO THE SLOPE USING STAPLES, PINS, OR STAKES.
 - SEEDDED AREAS SHALL BE CHECKED AND RESEEDDED AS NECESSARY TO COVER EXPOSED SOIL. RECENTLY SEEDDED AREAS SHALL BE PROTECTED BY STRAW OR SOIL STABILIZATION BLANKETS TO PREVENT SEEDING FROM BEING WASHED AWAY.
- STOCKPILES
 - STOCKPILED SOIL AND OTHER LOOSE MATERIALS THAT CAN BE WASHED AWAY SHALL BE COVERED WITH A TARP, PLASTIC SHEETING, OR OTHER STABILIZATION MATTING. THE COVER MUST BE PROPERLY SECURED/ANCHORED DOWN TO PREVENT IT FROM BEING BLOWN OFF AND EXPOSING MATERIALS TO RAIN. CONTROLS SUCH AS HAY BALES OR BOOMS SHALL BE PLACED ALONG THE PERIMETER OF THE STOCKPILE (DOWNHILL SIDE).
- INLET PROTECTION
 - INLET PROTECTION CONTROLS SHALL BE INSPECTED TO ENSURE THEY ARE FUNCTIONING PROPERLY AND FLOODING WILL NOT OCCUR. CLOGGED OR DAMAGED CONTROLS MUST BE REPLACED IMMEDIATELY. ENSURE CONTROLS ALLOW FOR OVERFLOW/BYPASS OF STORMWATER RUNOFF DURING SIGNIFICANT STORM EVENTS.

IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

POLLUTION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4)

- ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S M54 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:
 - WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIREFIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
 - APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S M54 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
 - PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

UTILITY INSTALLATION:

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

- NO MORE THAN 100 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDDED NO LATER THAN MAY 15TH.
- AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

MAINTENANCE PROGRAM:

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

- THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREA (I.E. SEEDDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO ENSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.
- ALL SEDIMENT TRAPPING DEVICES SHALL BE CLEARED OUT AT 50% TRAP CAPACITY AND THE SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE BUMP SITE.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT MUD AND/OR OTHER DEBRIS FROM BEING ENTERED ONTO EXISTING SWM/BMP FACILITIES OR DOWNSTREAM WATER WAYS. SHOULD OFF-SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE AFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.
- AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ANY REMAINING DENUDED AREAS SHALL BE STABILIZED. CERTAIN DEVICES MAY BE REMOVED PRIOR TO CONSTRUCTION COMPLETION BUT ONLY WITH THE APPROVAL OF THE COUNTY INSPECTOR.
- AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS SHALL BE STABILIZED. UPON APPROVAL OF THE COUNTY INSPECTOR, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION WITHIN 30 DAYS.

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 DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
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SEAL

COMMONWEALTH OF VIRGINIA
 BHARAT BHARGAVA
 Lic. No. 20686
 12/7/2023
 PROFESSIONAL ENGINEER

APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

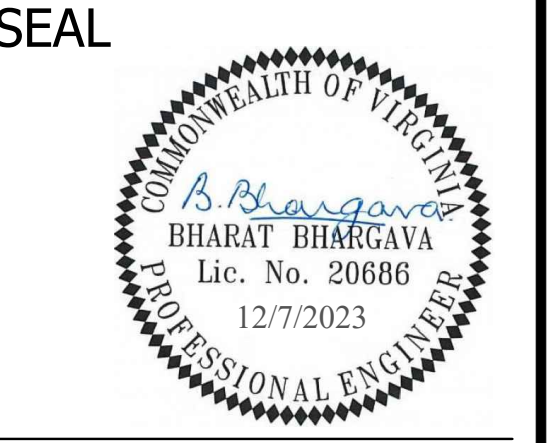
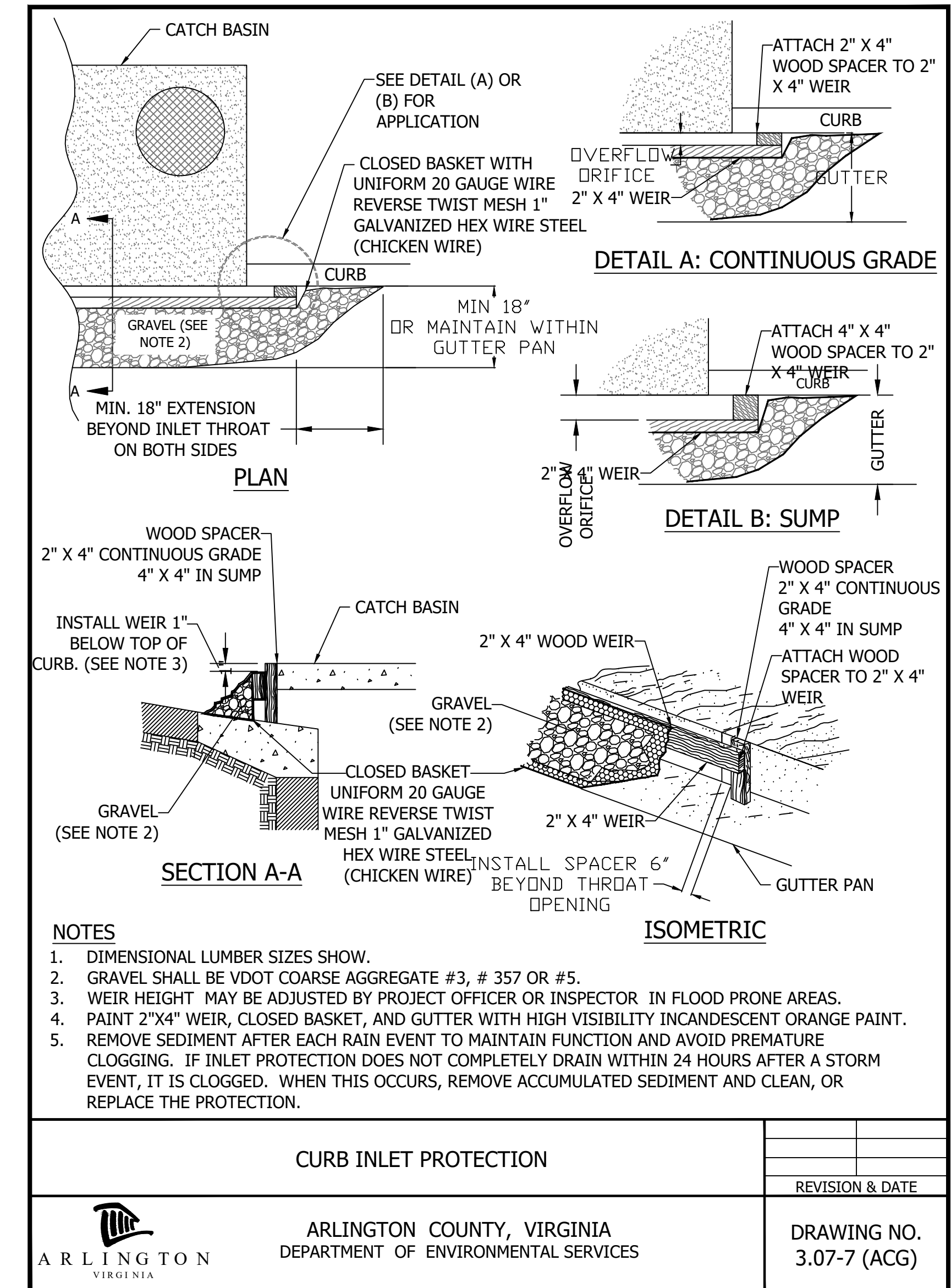
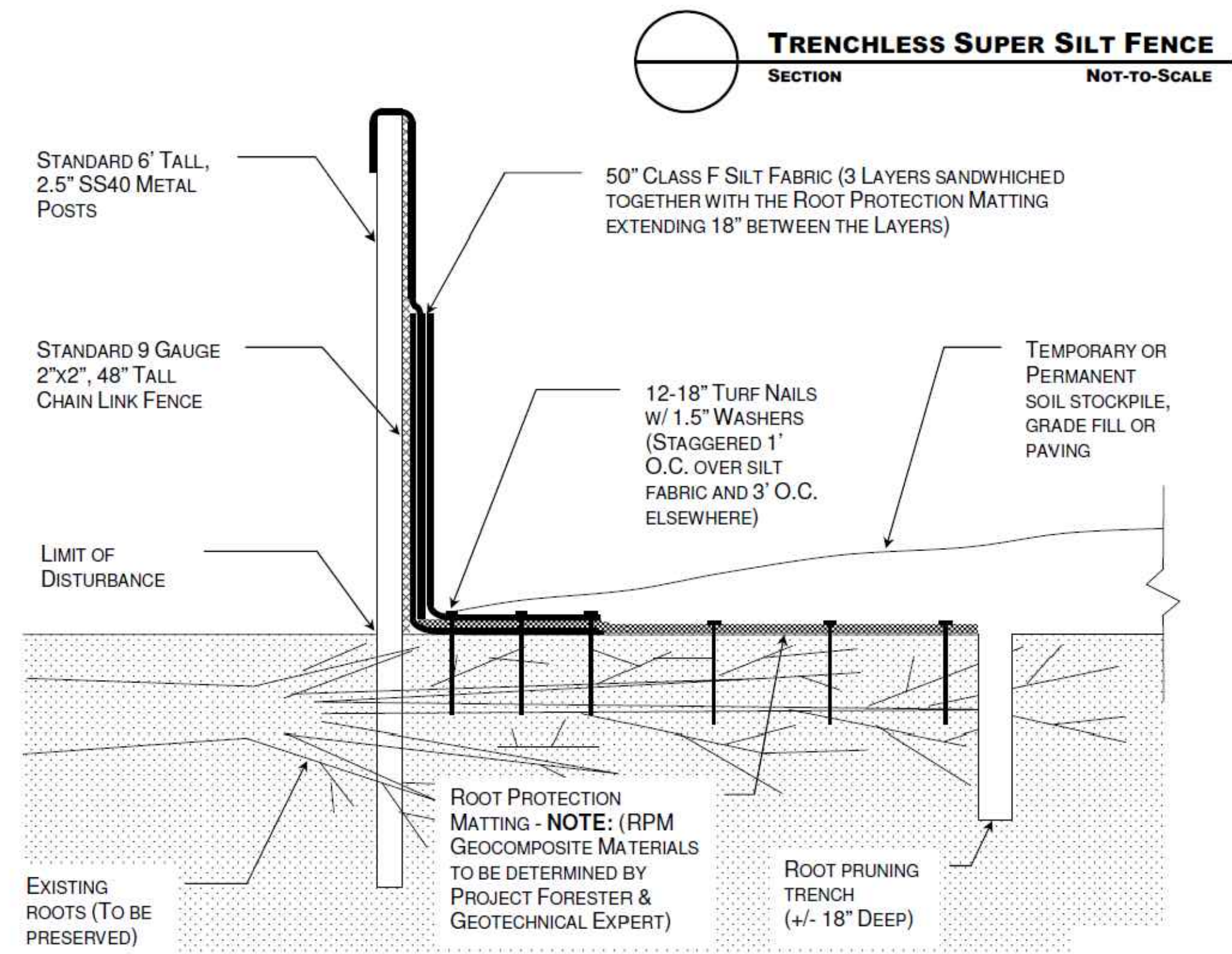
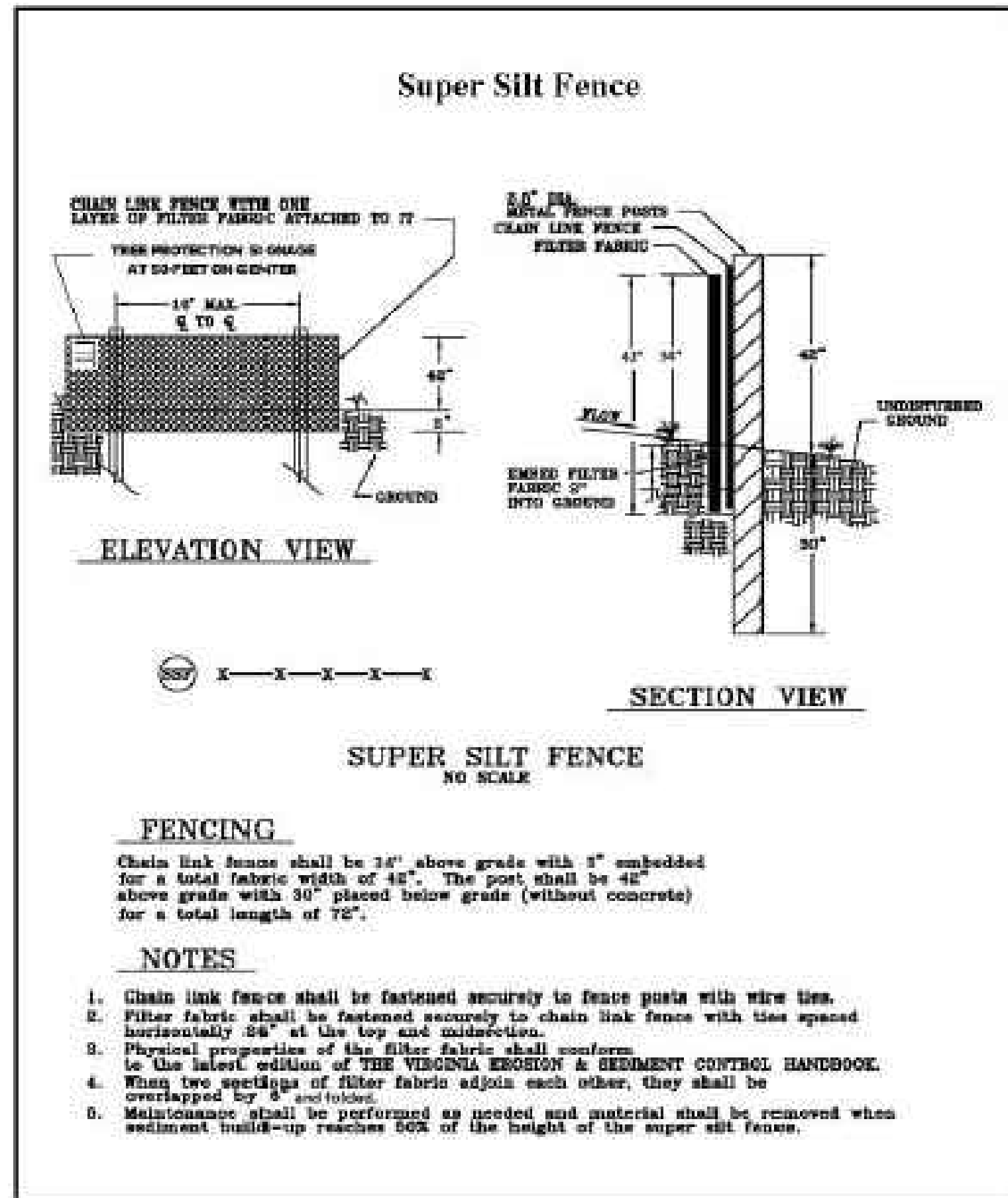
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PLOTTED: DECEMBER 21 2023

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APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D485

EROSION AND SEDIMENT CONTROL
DETAILS

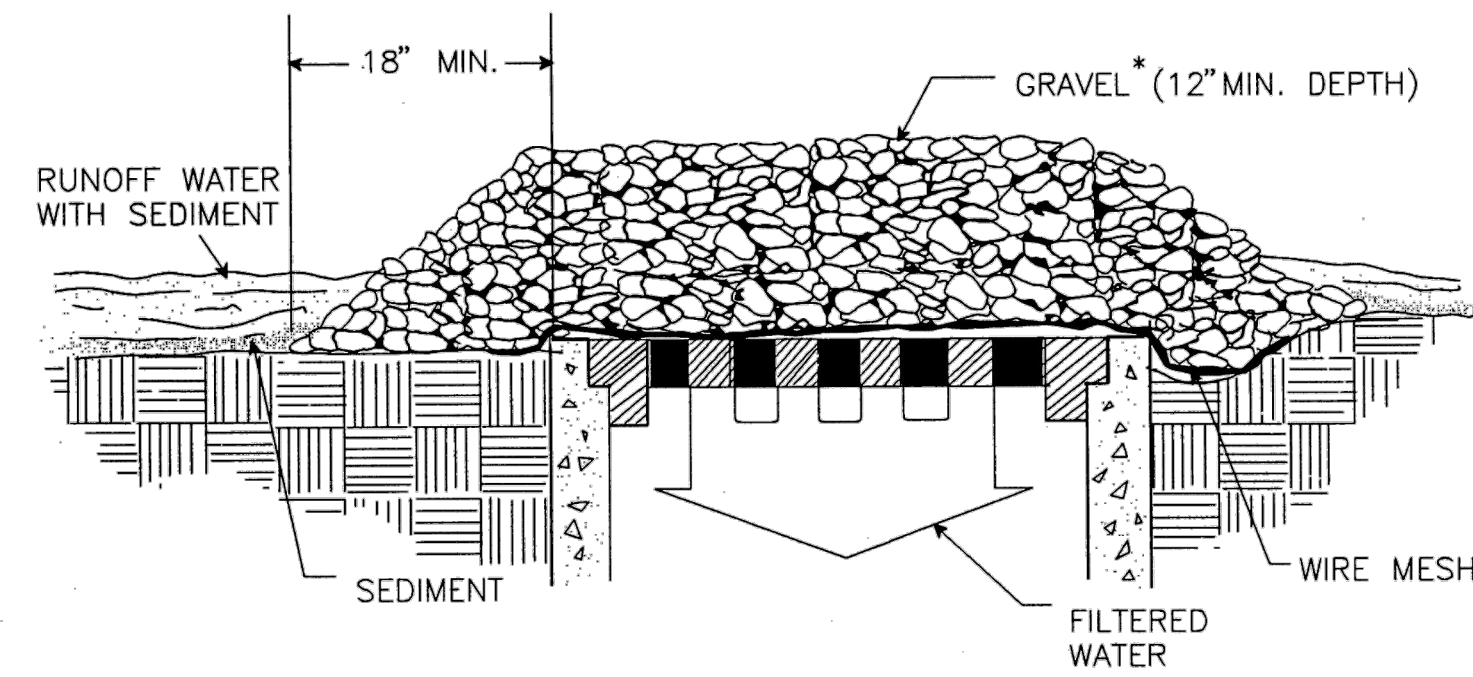
DESIGNED: BB
DRAWN: MS
CHECKED: BG

PLOTTED: DECEMBER 21, 2023

SCALE:
NOT TO SCALE

1992 3.07

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

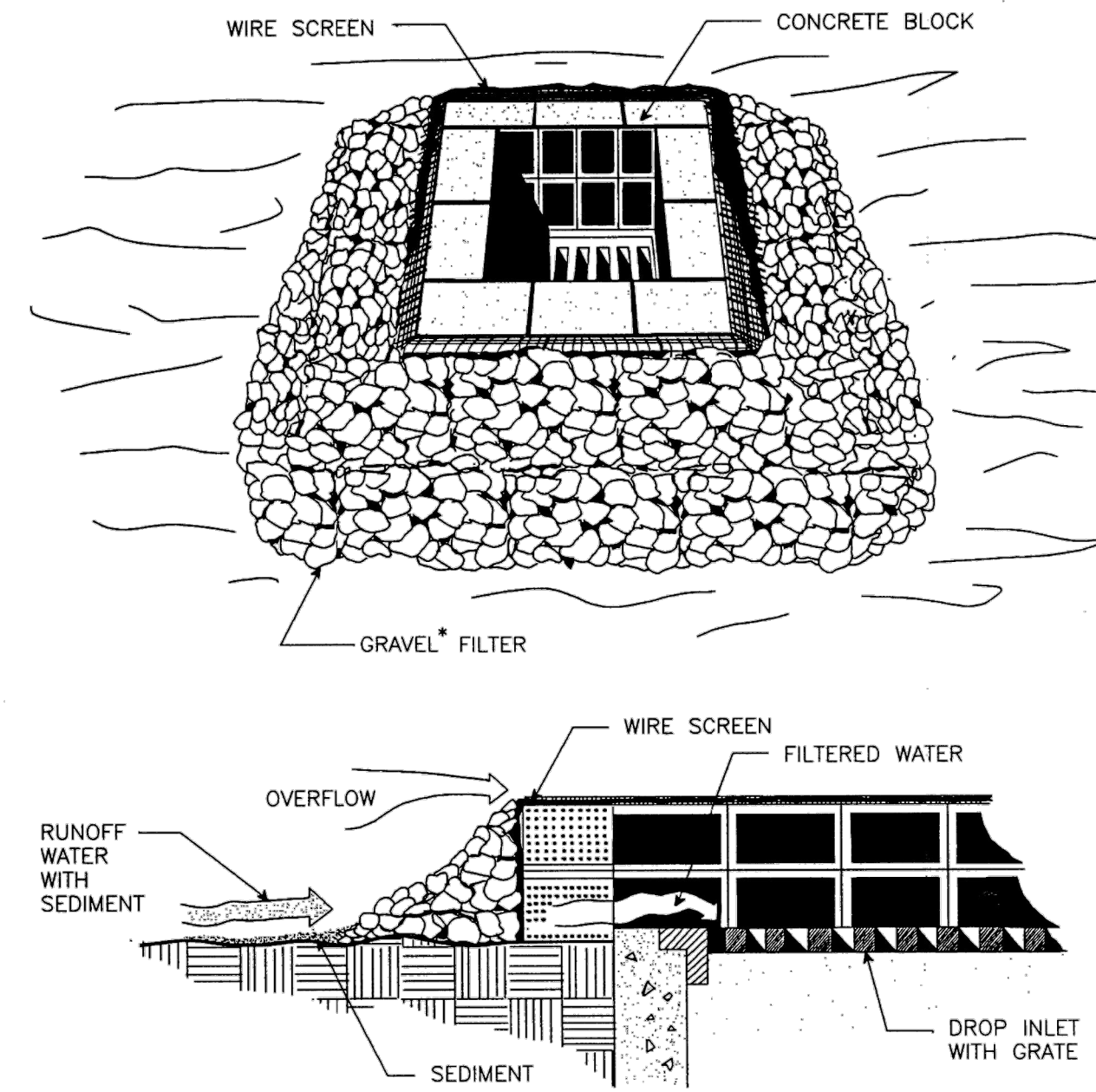
Source: Va. DSWC

Plate 3.07-2

III - 36

1992 3.07

BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

Source: Va. DSWC

Plate 3.07-3

III - 38

SEAL



APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

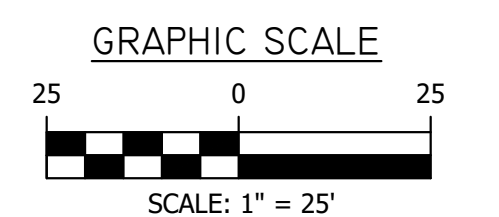
REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
 EROSION AND SEDIMENT CONTROL
 DETAILS

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

SCALE:



C031.5

STORMWATER POLLUTION PREVENTION PLAN
Ohio Street and 12th Road N Intersection Improvements

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) COVER PAGE

For Construction Activities At:
Ohio Street and 12th Road N Intersection Improvements
Arlington, VA 22206

Latitude: 38.8814 N (decimal degrees)
Longitude: -77.1459 W (decimal degrees)

Construction Activity Operator:
Insert Company/Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Email Address
Insert 24-hour Emergency Contact

SWPPP Preparation Date:
May 22, 2023

CERTIFICATION

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator Name: _____
Title: _____
Signature: _____
Date: _____

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Ohio Street and 12th Road N Intersection Improvements

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type	Located Onsite & Available for Review?	
Registration Statement	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Notice of Coverage Letter	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Construction General Permit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Pollution Prevention Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Erosion & Sediment Control Plan (or agreement in lieu of)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Stormwater Management Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated foundation or footing drains	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Uncontaminated excavation dewatering	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Landscape irrigation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Others [describe]	<input type="checkbox"/> Yes	<input type="checkbox"/> No

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
<input checked="" type="checkbox"/>	Construction Entrance (Std. & Spec. 3.02)			Construction Activity Operator (See Cover Page of this SWPPP)
<input checked="" type="checkbox"/>	Silt Fence (Std. & Spec. 3.05)			
<input type="checkbox"/>	Culvert Inlet Protection (Std. & Spec. 3.08)		NA	
<input type="checkbox"/>	Outlet Protection (Std. & Spec. 3.18)		NA	
<input checked="" type="checkbox"/>	Temporary Seeding (Std. & Spec. 3.31)	As required by 3.31	NA	
<input checked="" type="checkbox"/>	Permanent Seeding (Std. & Spec. 3.32)		NA	
<input type="checkbox"/>	Sodding (Std. & Spec. 3.33)		NA	
<input type="checkbox"/>	Mulching (Std. & Spec. 3.35)		NA	
<input type="checkbox"/>	Safety Fence (Std. & Spec. 3.01)			

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Ohio Street and 12th Road N Intersection Improvements

<input checked="" type="checkbox"/>	Storm Drain Inlet Protection (Std. & Spec 3.08)		
<input type="checkbox"/>	Dewatering (Std. & Spec 3.26)		
<input checked="" type="checkbox"/>	Turbidity Curtain (Std. & Spec 3.27)		
<input checked="" type="checkbox"/>	Tree Protection (Arlington County Std. & Spec.)		
<input type="checkbox"/>	Others [describe]		

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Arlington Ridge Road

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants										Pollution Prevention Practice	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals			
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X								X		(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X							X	X		(2)	
Concrete washout and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X					X		(3)	
Structure construction, stucco, painting, and cleaning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X					X	X	(4)	
Dewatering operations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X							X		(5)	
Material delivery and storage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X	X	X	X	X	(6)	
Material use during building process	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		X	X	X		X	X	X	X	X	(7)	
Solid waste disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									X	X	(8)	
Sanitary waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		X	X					X			(9)	
Landscaping operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X		X			X	X	X	X	(10)	
Others [describe]	<input type="checkbox"/> Yes <input type="checkbox"/> No	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	(11)	

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Arlington Ridge Road

Pollution Prevention Practices:

- Clearing, grading, excavating and un-stabilized areas** – Utilize erosion and sediment controls to prevent sediment laden or turbid runoff from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities.
- Paving operations** – Cover storm drain inlets during paving operations and utilize pollution prevention materials such as drip pans and absorbent oil dry for all paving machines to limit leaks and spills of paving materials and fluids.
- Concrete washout and cement waste** – Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- Structure construction, stucco, painting and cleaning** – Enclose, cover or berm building material storage areas if susceptible to contaminated stormwater runoff. Conduct painting operations consistent with local air quality and OSHA regulations. Mix paint indoors, in a containment area or in a flat unpaved area. Prevent the discharge of soaps, solvents, detergents and wash water from construction materials, including the clean-up of stucco paint, form release oils and curing compounds.
- Dewatering operations** – Construction site dewatering from building footings or other sources may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.
- Material delivery and storage** – Designate areas of the construction site for material delivery and storage. Place near construction entrances, away from waterways, and avoid transport near drainage paths or waterways.
- Material use during building process** – Use materials only where and when needed to complete the construction activity. Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability and mixing of chemicals.
- Solid waste disposal** – Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible. Schedule waste collection to prevent the containers from overflowing.
- Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities. Locate sanitary facilities in a convenient location away from waterways.
- Landscaping operations** – Maintain as much existing vegetation as practicable. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Apply nutrients in accordance with manufacturer's recommendations and not during rainfall events.
- Others** – If applicable, describe your Pollution Prevention Practices.

6.0 Stormwater Management Controls

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
<input type="checkbox"/>	Post-development Stormwater Management Controls provided by a Larger Common Plan of Development or Sale	NA	Common Plan Construction Activity Operator
<input type="checkbox"/>	Rooftop Disconnection		Construction Activity Operator (See Cover Page of this SWPPP)
<input type="checkbox"/>	Sheet flow to Vegetated Filter (1 or 2)		
<input type="checkbox"/>	Grass Channel		
<input type="checkbox"/>	Rainwater Harvesting		
<input type="checkbox"/>	Permeable Pavement (1 or 2)		

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Arlington Ridge Road

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
<input type="checkbox"/>	Infiltration (1 or 2)		Construction Activity Operator (See Cover Page of this SWPPP)
<input type="checkbox"/>	Bioretention (1 or 2)		
<input type="checkbox"/>	Others [describe]		
<input type="checkbox"/>	Exempted	NA	NA

7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

1st Priority: Protect all people
2nd Priority: Protect equipment and property
3rd Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
- Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from entering drains (use absorbent or other material as necessary).
- Stop spill from spreading (use absorbent or other material).
- If spilled material has entered a storm sewer, contact locality's storm water department.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Normal Working Hours
DEQ Northern Regional Office 703-583-3800

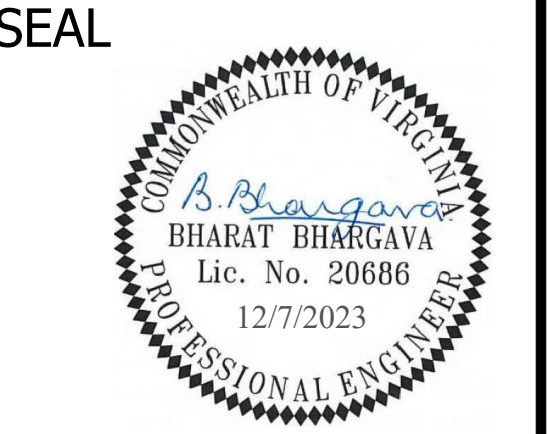
Nights, Holidays & Weekends
VA Dept. of Emergency Management 804-674-2400
24 Hour Reporting Service

Local Contacts
Arlington County Fire & Police 703-558-2222
DES Water, Sewer, Streets 24-Hour Emergency 703-228-6555
Washington Gas Emergency 703-750-1400

Arlington County – SWPPP 9/2016



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APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D48S
STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: BB
DRAWN: AB
CHECKED: BG

PLOTTED: DECEMBER 21, 2023

SCALE:

NOT TO SCALE

STORMWATER POLLUTION PREVENTION PLAN
Arlington Ridge Road

8.0 Self Inspections Report & Corrective Action Log (make additional copies as necessary)

Qualified Inspector

Company/Organization:
Name:
Telephone Number:
Qualifications:

Inspection Schedule

Discharges to impaired waters, surface waters within a TMDL watershed, or exceptional waters:

Once every 4 business days.

Inspection Date:

Type of Inspection: Regular Pre-storm event During storm event Post-storm event

Phase of construction: Pre-Con DEMO Clearing Building Grading Final Stabilization

Is a copy of the SWPPP available on site? Yes No Is the SWPPP complete? Yes No

Are there any discharges at the time of this inspection? Yes No If yes, describe:

Have any discharge occurred since the last inspection? Yes No If yes, describe:

Table with 4 columns: Best Management Practices (BMPs), In Compliance with SWPPP?, Corrective Action Needed: Responsible Party & Notes, Date Corrective Action Taken. Rows include: Are all construction exits preventing sediment from being tracked onto the adjacent streets? Are perimeter controls and sediment barriers adequately installed and maintained? Are storm drain inlets properly protected? (on-site and adjacent) Are discharge points and receiving waters free of any sediment deposits?

Arlington County - SWPPP 9/2016

INSTRUCTIONS FOR COMPLETING the SINGLE FAMILY RESIDENCE, COMMON PLAN of DEVELOPMENT or SALE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

General

A Stormwater Pollution Prevention Plan (SWPPP) must be developed prior to obtaining locality (e.g., City, County, Town) authorization to commence land disturbance.

SWPPP Cover Page

For a construction activity, enter the project/site name and physical address (if available), including city (or town), state and zip code. Enter the latitude and longitude in decimal degrees of the construction activity.

Enter the Construction Activity Operator's company/organization name, the Operator's name and mailing address, including city (or town), state, and zip code, telephone number, email address (if available), and a 24-hour emergency contact.

Enter the SWPPP preparation date.

The Construction Activity Operator identified on the cover page of the SWPPP is responsible for certifying the information contained therein. Please sign the certification in INK. Please note that state statutes require the SWPPP to be signed as follows:

- (1) For a corporation: by a responsible corporate officer;
(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
(3) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

Section 1.0 SWPPP Documents Located Onsite & Available for Review

Utilize the provided checklist to ensure that the required SWPPP documents are located onsite and are available for review, if applicable.

Section 2.0 Authorized Non-Stormwater Discharges

Identify the authorized non-stormwater discharges likely to be present at the project site. If an unlisted authorized non-stormwater discharge is likely to be present at the project site, provide it here.

Section 3.0 Pollution Prevention Awareness

Provide employees with a "walk through" of the project site and identify areas of possible pollution, erosion and sediment controls, and pollution prevention practices which are applicable to their assigned job duties. Conduct refresher meetings and perform additional "walk throughs" on an as needed basis.

Section 4.0 Erosion & Sediment Controls

Identify the erosion and sediment controls to be implemented at the project site. For each erosion and sediment control, enter the estimated installation date and estimated removal date. If an unlisted erosion and sediment control will be implemented at the project site, provide the applicable information here.

Section 5.0 Potential Sources of Pollution & Pollution Prevention Practices

Identify the pollutant-generating activities likely to be present at the project site, implement and maintain the corresponding pollution prevention practices. If an unlisted pollutant-generating activity is likely to be present at the project site, describe it, identify the associated pollutant(s), and provide the corresponding pollution prevention practice(s) to be implemented and maintained.

Section 6.0 Stormwater Management Controls

Identify the stormwater management controls to be implemented at the project site, if applicable. For each stormwater management control, enter the estimated installation date. If an unlisted stormwater management control will be implemented at the project site, provide the applicable information here.

Section 7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. The priority should be to protect all people, equipment, property, and the environment. Enter the telephone number of your local fire and police departments.

Section 8.0 Inspections & Corrective Action Log

Enter the qualified inspector's company/organization name, the inspector's name, telephone number, and qualifications. Select the applicable inspection type, enter the construction activity inspection date, and enter the date and rainfall amount of the last measurable storm event (if applicable). Identify if the implemented best management practices are in compliance with the SWPPP. Enter corrective actions needed; the party responsible for implementing the corrective actions, and the date corrective actions were taken, if applicable. Make additional copies of the inspection and corrective action log as necessary.

Section 9.0 Grading & Stabilization Activities Log

Enter the date grading activities were initiated, a description of the grading activities including location, the date grading activities ceased, the date stabilization measures were initiated, and a description of the stabilization measures including location.

Section 10.0 SWPPP Modification & Update Log

Enter the SWPPP modification date, description of the SWPPP modification/update, and the name and title of the SWPPP modification preparer, if applicable.

Arlington County - SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Arlington Ridge Road

Table with 4 columns: Best Management Practices (BMPs), In Compliance with SWPPP?, Corrective Action Needed: Responsible Party & Notes, Date Corrective Action Taken. Rows include: Are all slopes and disturbed areas not actively being worked properly stabilized? Are washout facilities (e.g., concrete, paint, stucco) available, clearly marked and maintained? Is trash/litter from work areas collected and contained in dumpsters? Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled? Are natural resources (e.g., streams, wetlands, mature trees) area protected with barriers or similar BMPs? Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks, or other deleterious material? Are materials that are potential stormwater contaminants stored inside or under cover? Are disturbed areas stabilized within 7 days, if areas denuded will remain undisturbed for 14 days?

Non - Compliance

Describe any incidents of non-compliance not described above (use another page is necessary)

Certification

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator or Assigned Qualified Personnel Name: _____

Signature: _____

Date: _____

Arlington County - SWPPP 9/2016

11/27/23
date

Qianqian Li, P.E.
ESC Program Administrator
Department of Environmental Services
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

12th Road N

street address

11th Road N to N Ohio Street

lot, block, section subdivision

LDAP23-00096

permit number

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

- 1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
4. Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
5. Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
6. Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
7. Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at 703-228-0784 with questions about this plan or my execution of the duties of

Responsible Land Disturber.

Sincerely,

[Signature]

signed

Jiong Lin

name printed

VA-PE 0402051875

professional registration (type and number)

Arlington County - SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN
Arlington Ridge Road

9.0 Grading & Stabilization Activities Log

Table with 5 columns: Date Grading Activity Initiated, Description of the Grading Activity (including location), Date Grading Activity Ceased, Date Stabilization Measures Initiated, Description of the Stabilization Measure (including location)

10.0 SWPPP Modification & Update Log

Table with 3 columns: Modification Date, Description of the Modification / Update (name & title that request the modification), Modification Prepared By (name & title)

Arlington County - SWPPP 9/2016



DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL



APPROVALS

DATE

[Signature] 1/11/2024

DESIGN TEAM ENGINEER SUPERVISOR

[Signature] 1/12/2024

CONSTRUCTION MANAGEMENT SUPERVISOR

[Signature] 1/11/2024

WATER, SEWER, STREETS BUREAU CHIEF

[Signature] 1/12/2024

ENGINEERING BUREAU CHIEF

Kyle Kling 12/18/2023

PROJECT MANAGER

REVISIONS

DATE

N OHIO ST AND 12TH RD N INTERSECTION
D485
STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: BB
DRAWN: AB
CHECKED: BG

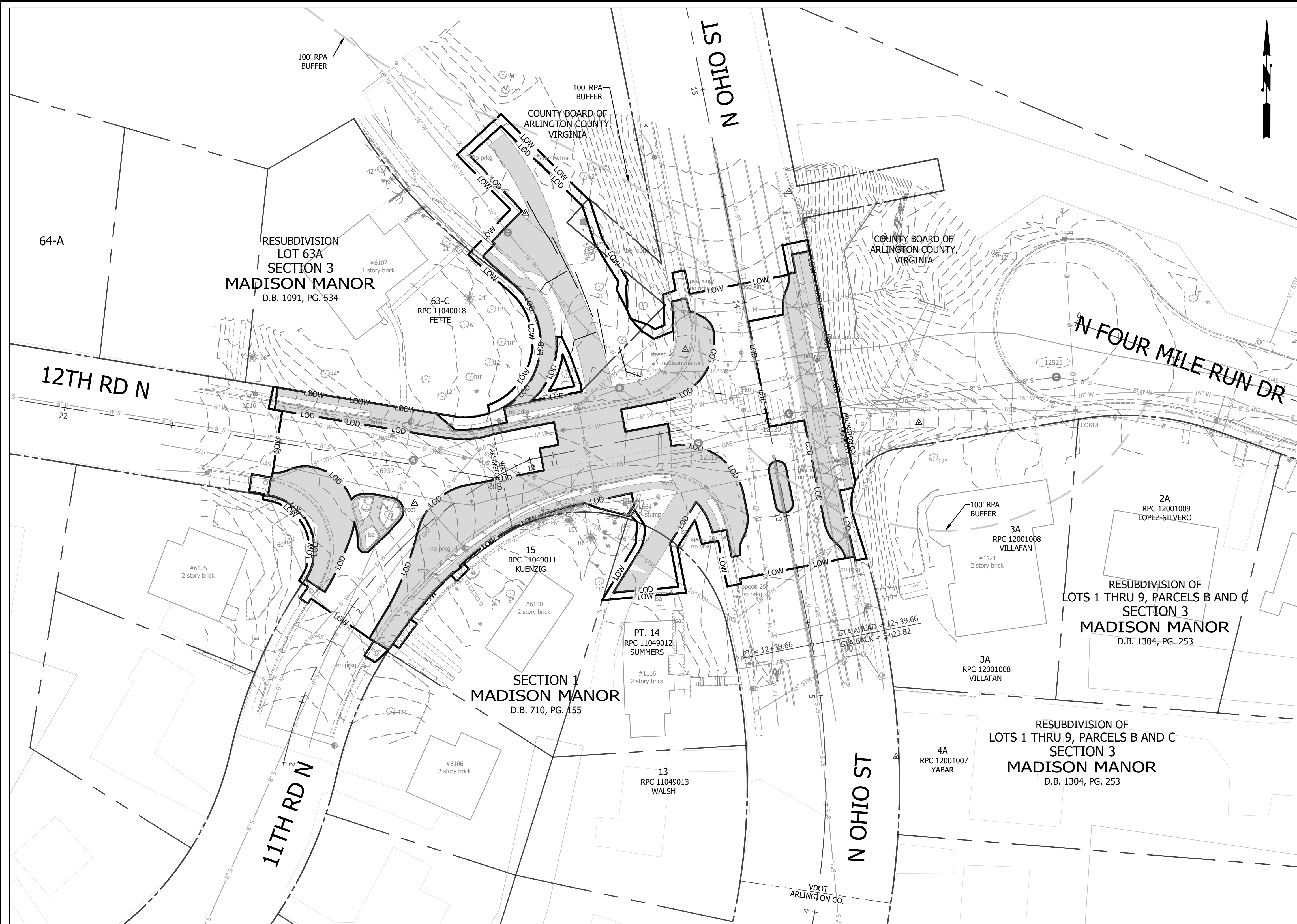
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SCALE:

NOT TO SCALE

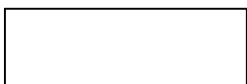




REVISED ON 1/24/2022

FILENAME: D48S-XXX-PRD-AND_POST-12TH_RD.DWG PATH: T:\1177200 - MASTER-ARLINGTON COUNTY (CONT)\1177203 - D48S - N OHIO ST AT 12TH RD N\07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS.SMITH



PRE-DEVELOPMENT CONDITIONS

LEGEND

-  PRE-DEVELOPMENT GRASS AREA
-  PRE-DEVELOPMENT FORESTED AREA
-  PRE-DEVELOPMENT IMPERVIOUS AREA
-  LIMIT OF DISTURBANCE
-  LIMIT OF WORK

TOTAL PROJECT AREA WITHIN LOD

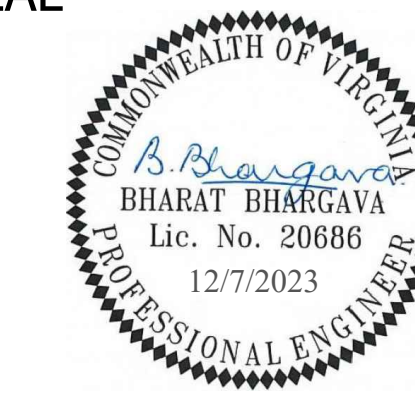
	PRE-DEV.		POST-DEV.	
	SF	AC	SF	AC
PERVIOUS AREA	4,208	0.0966	5,209	0.1196
IMPERVIOUS AREA	13,083	0.3003	12,082	0.2773
FORESTED AREA	0	0.00	0	0.00
PERVIOUS AREA (WITHIN RPA)	0	0.00	0	0.00
IMPERVIOUS AREA (WITHIN RPA)	1,657	0.0380	1,665	0.0382
FORESTED AREA (WITHIN RPA)	0	0.00	0	0.00
TOTAL LIMIT OF DISTURBANCE			17,291 SF (0.3969 AC)	
TOTAL LIMIT OF DISTURBANCE WITHIN RPA			1,665 SF (0.0382 AC)	
CHANGE IN IMPERVIOUS WITHIN LOD			-1,001 SF (-0.0230 AC)	
CHANGE IN IMPERVIOUS WITHIN LOD IN RPA			8 SF (0.0002 AC)	



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
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APPROVALS DATE

[Signature] 1/11/2024
 DESIGN TEAM ENGINEER SUPERVISOR
[Signature] 1/12/2024
 CONSTRUCTION MANAGEMENT SUPERVISOR
[Signature] 1/11/2024
 WATER, SEWER, STREETS BUREAU CHIEF
[Signature] 1/12/2024
 ENGINEERING BUREAU CHIEF
 Kyle Kling 12/18/2023
 PROJECT MANAGER

REVISIONS DATE

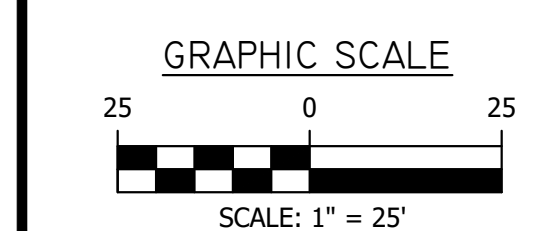
NO.	DESCRIPTION	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D48S
 PRE-DEVELOPMENT MAP

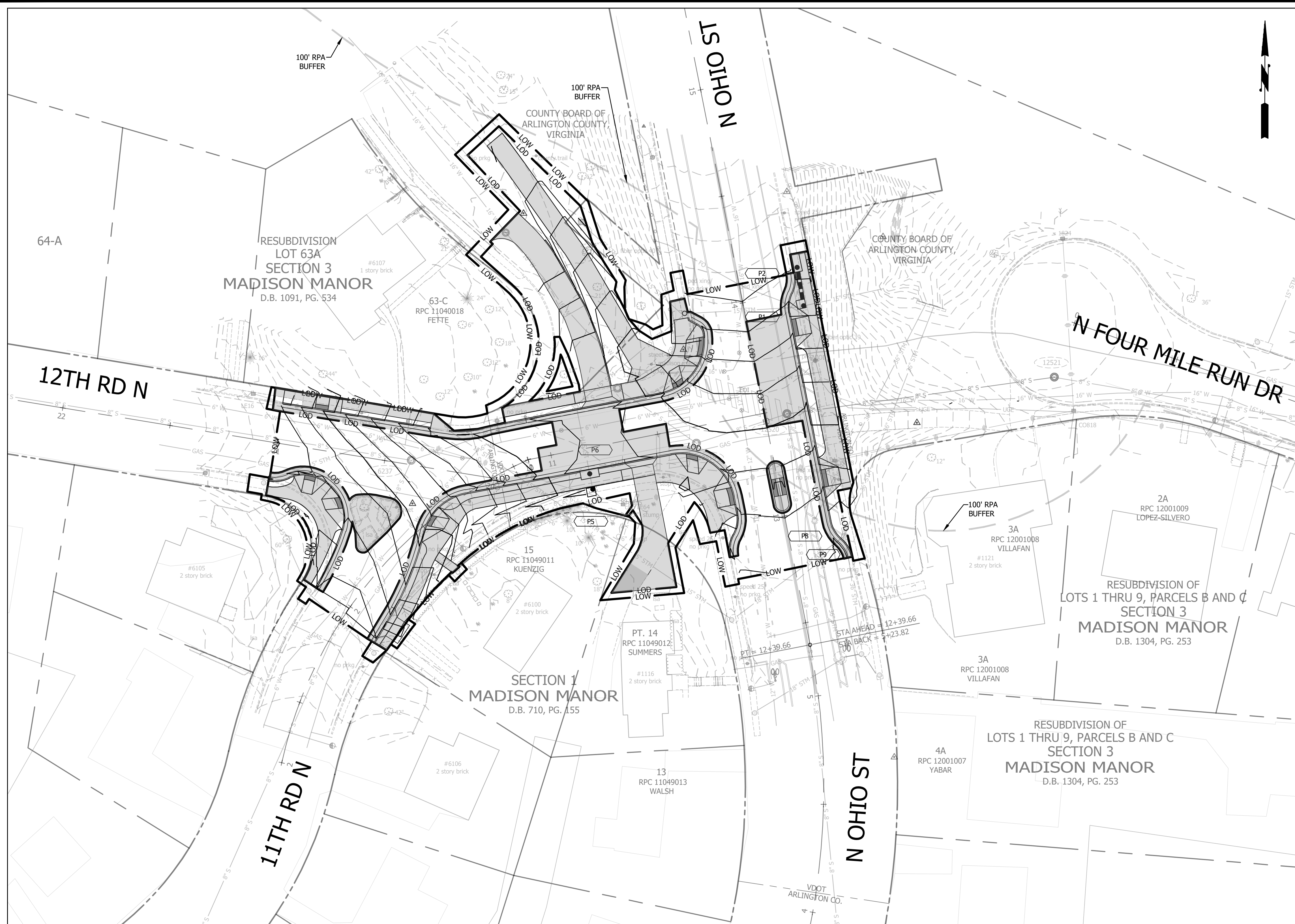
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 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

SCALE:




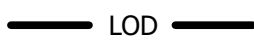
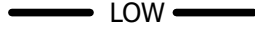


C032.3



POST-DEVELOPMENT CONDITIONS

LEGEND

-  POST-DEVELOPMENT GRASS AREA
-  POST-DEVELOPMENT FORESTED AREA
-  POST-DEVELOPMENT IMPERVIOUS AREA
-  LOD LIMIT OF DISTURBANCE
-  LOW LIMIT OF WORK

TOTAL PROJECT AREA WITHIN LOD

	PRE-DEV.		POST-DEV.	
	SF	AC	SF	AC
PERVIOUS AREA	4,208	0.0966	5,209	0.1196
IMPERVIOUS AREA	13,083	0.3003	12,082	0.2773
FORESTED AREA	0	0.00	0	0.00
PERVIOUS AREA (WITHIN RPA)	0	0.00	0	0.00
IMPERVIOUS AREA (WITHIN RPA)	1,657	0.0380	1,665	0.0382
FORESTED AREA (WITHIN RPA)	0	0.00	0	0.00
TOTAL LIMIT OF DISTURBANCE			17,291 SF (0.3969 AC)	
TOTAL LIMIT OF DISTURBANCE WITHIN RPA			1,665 SF (0.0382 AC)	
CHANGE IN IMPERVIOUS WITHIN LOD			-1,001 SF (-0.0230 AC)	
CHANGE IN IMPERVIOUS WITHIN LOD IN RPA			8 SF (0.0002 AC)	



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
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 Kyle Kling 12/18/2023
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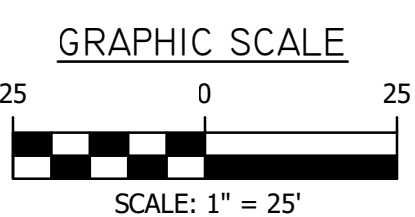
N OHIO ST AND 12TH RD N INTERSECTION
D-48S

POST-DEVELOPMENT GRADING AND
STORM DRAIN LAYOUT

DESIGNED: BB
 DRAWN: AB
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

SCALE:



DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0									
2011 BMP Standards and Specifications					2013 Draft BMP Standards and Specifications				
Project Name:		N Ohio St at 12th Rd N			CLEAR ALL		data input cells		
Date:		12/5/2023					constant values		
Site Information		Linear Development Project? Yes					calculation cells		
							final results		
Post-Development Project (Treatment Volume and Loads)									
Enter Total Disturbed Area (acres) →					0.3969				
					Check: 2013 Draft Stds & Specs				
					BMP Design Specifications List: Linear project? Yes				
					The site's net increase in impervious cover (acres) is: 0.0000 Land cover areas entered correctly? ✓				
					Post-Development TP Load Reduction for Site (lb/yr): 0.1044 Total disturbed area entered? ✓				
Pre-ReDevelopment Land Cover (acres)									
		A Soils	B Soils	C Soils	D Soils	Totals			
Forest/Open Space (acres) -- undisturbed forest/open space						0.0000			
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed					0.0966	0.0966			
Impervious Cover (acres)					0.3003	0.3003			
						0.3969			
Post-Development Land Cover (acres)									
		A Soils	B Soils	C Soils	D Soils	Totals			
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested land						0.0000			
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed					0.1196	0.1196			
Impervious Cover (acres)					0.2773	0.2773			
						0.3969			
Area Check		OK.	OK.	OK.	OK.				
Constants									
Annual Rainfall (inches)		43			Runoff Coefficients (Rv)				
Target Rainfall Event (inches)		1.00			A Soils	B Soils	C Soils	D Soils	
Total Phosphorus (TP) EMC (mg/L)		0.26			Forest/Open Space	0.02	0.03	0.04	0.05
Total Nitrogen (TN) EMC (mg/L)		1.86			Managed Turf	0.15	0.20	0.22	0.25
Target TP Load (lb/acre/yr)		0.41			Impervious Cover	0.95	0.95	0.95	0.95
Pj (unitless correction factor)		0.90							
LAND COVER SUMMARY -- PRE-REDEVELOPMENT					LAND COVER SUMMARY -- POST DEVELOPMENT				
<i>Land Cover Summary-Pre</i>					<i>Land Cover Summary-Post (Final)</i>				
Pre-Development		Listed	Adjusted ¹	Post ReDev. & New Impervious		Post-Development		Land Cover Summary-Post	
Forest/Open Space Cover (acres)		0.0000	0.0000	Forest/Open Space Cover (acres)		Forest/Open Space Cover (acres)		Post-Development New Impervious	
Weighted Rv(forest)		0.0000	0.0000	Weighted Rv(forest)		Weighted Rv(forest)			
% Forest		0%	0%	% Forest		% Forest			
Managed Turf Cover (acres)		0.0966	0.0966	Managed Turf Cover (acres)		Managed Turf Cover (acres)			
Weighted Rv(turf)		0.2500	0.2500	Weighted Rv (turf)		Weighted Rv (turf)			
% Managed Turf		24%	24%	% Managed Turf		% Managed Turf			
Impervious Cover (acres)		0.3003	0.3003	Impervious Cover (acres)		ReDev. Impervious Cover (acres)		New Impervious Cover (acres)	
Rv(impervious)		0.9500	0.9500	Rv(impervious)		Rv(impervious)		Rv(impervious)	
% Impervious		76%	76%	% Impervious		% Impervious			
Total Site Area (acres)		0.3969	0.3969	Final Site Area (acres)		Total ReDev. Site Area (acres)			
Site Rv		0.7796	0.7796	Final Post Dev Site Rv		ReDev Site Rv			
Treatment Volume and Nutrient Load					Treatment Volume and Nutrient Load				
Pre-Development Treatment Volume (acre-ft)		0.0258	0.0258	Final Post-Development Treatment Volume (acre-ft)		Post-ReDevelopment Treatment Volume (acre-ft)		Post-Development Treatment Volume (acre-ft)	
Pre-Development Treatment Volume (cubic feet)		1,123,249.1	1,123,249.1	Final Post-Development Treatment Volume (cubic feet)		Post-ReDevelopment Treatment Volume (cubic feet)		Post-Development Treatment Volume (cubic feet)	
Pre-Development TP Load (lb/yr)		0.7057	0.7057	Final Post-Development TP Load (lb/yr)		Post-ReDevelopment TP Load (lb/yr)*		Post-Development TP Load (lb/yr)	
Pre-Development TP Load per acre (lb/acre/yr)		1.7800	1.7800	Final Post-Development TP Load per acre (lb/acre/yr)		Post-ReDevelopment TP Load per acre (lb/acre/yr)			
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		0.1627				Max. Reduction Required (Below Pre-Development Load)		20%	
						TP Load Reduction Required for Redeveloped Area (lb/yr)		0.1044	
								TP Load Reduction Required for New Impervious Area (lb/yr)	
								0	
Post-Development Requirement for Site Area									
TP Load Reduction Required (lb/yr)		0.1044							
Linear Project TP Load Reduction Required (lb/yr):		0.1044							
Nitrogen Loads (Informational Purposes Only)									
Pre-Development TN Load (lb/yr)		5.0487		Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)		4.7860			

PROJECT DESCRIPTION

The N Ohio St at 12th Rd N project proposes intersection improvements at the intersections of N Ohio St/12th Road N and 12th Road N/11th Road N where ADA compliant ramps are proposed. Trail connection realignments are proposed at the northwest corner of N Ohio St/12th Road N intersection and on the east side of N Ohio St. The cul-de-sac on N Four Mile Run Drive will be reconstructed. Incidental work to this project includes stormwater system improvements, utility relocation, and existing tree removal/replacement.

STORMWATER AND RUNOFF

Per the Virginia Stormwater Management Program (VSMP) criteria set forth in 9VAC25-870-66, the Part IIB Technical Criteria are applicable to any re-development or new-development projects with Regulated Land Disturbance Area of one acre or greater, or 2,500 square feet or greater in designated Chesapeake Bay Preservation Areas (CBPA), including Resource Protection Areas (RPA). The proposed improvement is partially located within the Resource Protected Area as shown on the plan set. The regulated land disturbance is 17,291 SF (0.3969 AC); therefore, the project is required to comply with both VSMP and the Virginia Erosion and Sediment Control Regulations.

Based on the Part IIB Technical Criteria, the Total Phosphorus generated by the proposed improvement and that needs to be treated was calculated using the VRRM spreadsheet. The total phosphorus load reduction required is 0.1044 lb/yr for a land disturbance of 17,291 square feet (0.3969 acres).

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 COMMONWEALTH OF VIRGINIA
 BHARAT BHARGAVA
 Lic. No. 20686
 12/7/2023
 PROFESSIONAL ENGINEER

APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
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CONSTRUCTION MANAGEMENT SUPERVISOR	
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WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D48S
 VRRM CALCULATIONS

DESIGNED: BB
 DRAWN: AB
 CHECKED: BG
 PLOTTED: DECEMBER 21, 2023

SCALE:
 NOT TO SCALE

Appendix C. Water Quality Impact Assessment Data Sheet

Project Address: N Ohio Street at 12 th Road N	Date: December 5 th , 2023
Applicant Name/Affiliation: DES	Applicant Contact Information (phone and email): Jiong Lin, P.E., 703-228-0784, jilin@arlingtonva.us
Owner/Client Name: DES	Owner/Client Contact Information (phone and email): Jiong Lin, P.E., 703-228-0784, jilin@arlingtonva.us

Section 1: Type of activity proposed

Activity type (check all that apply):	<input type="checkbox"/> Deck, patio, or retaining wall <input type="checkbox"/> Landscaping (includes tree removal) <input type="checkbox"/> Utility work <input type="checkbox"/> Fence <input checked="" type="checkbox"/> Other (please describe): Intersection Improvements
<input type="checkbox"/> New construction (residential, commercial, public, etc.) <input type="checkbox"/> Alteration of non-residential structure <input type="checkbox"/> Residential addition <input type="checkbox"/> Detached residential structure	

Section 2: Key details of the proposed activity

Complete all that apply	Explanation
Total area of disturbance on parcel (sf)	17,291 SF Includes building footprint plus a 10-foot buffer. Also includes all soil disturbance, ingress/egress areas, stockpiling areas, etc.
Area of disturbance within RPA (sf)	1,665 SF Includes removal of trees ≥ 3" in diameter
Area of disturbance on slopes greater than or equal to 15 percent located adjacent to landward RPA boundary (sf)	0 SF Does not apply to RPA parcels along Chain Bridge Road (15 percent and greater slopes are included as part of RPA)

Complete all fields	Existing condition	Proposed condition	Explanation	
RPA encroachment (ft)	Left third of parcel or site	0	0	The distance (in feet) from the existing or proposed structure to the designated RPA feature (edge of stream or open channel, wetland, etc.). Encroachments of zero (0) indicate the project will impact the stream or other RPA feature.
	Middle third of parcel or site	N/A	N/A	
	Right third of parcel or site	0	0	
Total development footprint in RPA (sf)	1,657 SF	1,665 SF	The existing footprint includes the area of any existing structures, patios, decks, walkways, etc. Proposed footprint is the anticipated post-project area of all structures, additions, decks, walkways, regraded area behind a retaining wall, etc.	
Impervious footprint in RPA (sf)	1,657 SF	1,665 SF	Total area of impervious surfaces within the RPA (rooftops, pavement, etc.)	

(OVER)

STAFF USE ONLY

Building/demolition/LDA/Fence permit number(s):

Major WQIA required? Yes No

Date WQIA/Exception request information complete:

Date Chesapeake Bay Preservation Ordinance and E/S ordinance (if applicable) approvals issued in Permits Plus:

Section 3: Plan and Narrative

Provide a plan showing the location of the proposed activity, along with the RPA boundary. Briefly describe the proposed project, including any potential water quality impacts and mitigation measures proposed. The narrative must address three impact categories 1. Tree/vegetation impacts, 2. Stormwater and runoff 3. Erosion and sediment control. Please refer to the WQIA plan/narrative checklist for additional information.

PROJECT DESCRIPTION

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MAJOR WATER QUALITY IMPACT ASSESSMENT

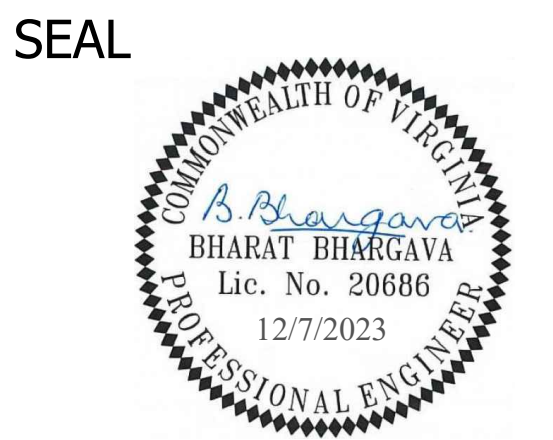
Because the land disturbance includes 1,665 SF (0.0382 AC) within the RPA, the project does not require the major water quality impact assessment per Arlington County regulations for disturbance within the RPA greater than 5,000 SF. The impervious area within the limits of disturbance will decrease by 1,001 SF (0.0230 AC), and the impervious area within the disturbed area within the RPA will decrease by 8 SF (0.0002 AC) in proposed conditions. There will be full depth paving within the RPA due to the lowering of the curb along the east side of N. Ohio St, in order to remove the need for grading behind the existing guardrail in that location.

Tree/vegetation impacts of the proposed improvements include the removal of 5 trees as listed in the Tree Inventory Plan. Most trees on site are proposed to be preserved and are to be protected with tree protection fence. The mitigation/re-vegetation plan includes the replacement of removed trees with 12 native trees and groundcover.

The soil on site consists of primarily "Urban Land-Glenelg Complex" soil with a hydrologic soil group of D, which is considered soil with high runoff potential. Erosion and sediment control measures are proposed to mitigate erosion on site. Silt fence and tree protection is proposed around trees designated as to be preserved. Temporary and permanent seeding are proposed to stabilize and prevent erosion of the soil on site.

Additional Water Quality Impact Assessment Information

The information supplied on this form satisfies the minimum requirements for a Minor Water Quality Impact Assessment. For projects that disturb over 2500 square feet, elements of a Major Water Quality Impact Assessment may also be required, depending on the nature and extent of the proposed RPA encroachment, as outlined in Section 61-12 of the ordinance.



APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
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Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D485
WATER QUALITY IMPACT ASSESSMENT

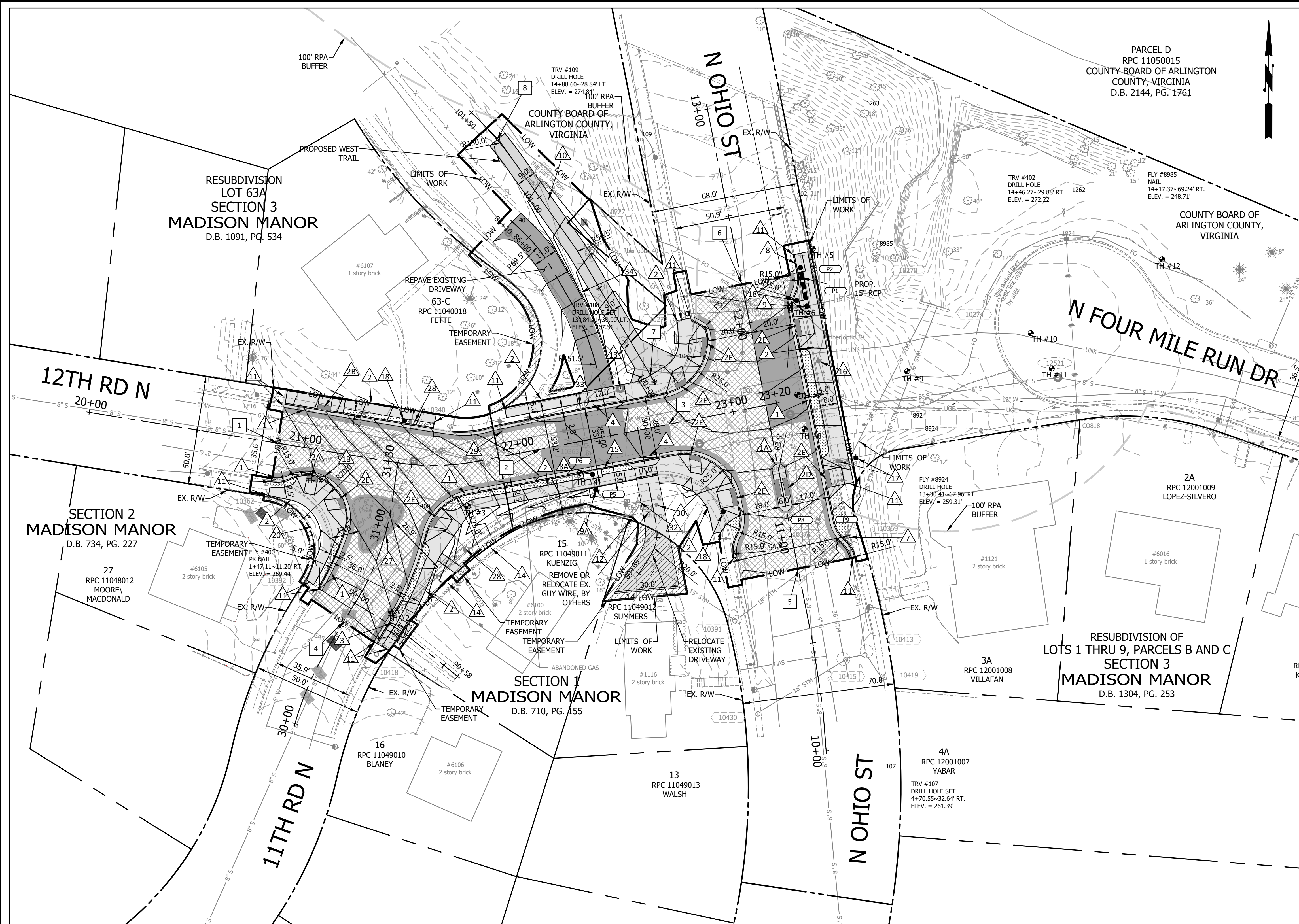
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PLOTTED: DECEMBER 27 2023

SCALE:
NOT TO SCALE

C032.6

REVISED ON 1/24/2022

FILENAME: D485-230-PLAN_PROFILE-12TH_RD.DWG PATH: T:\1177200 - MASTER-ARLINGTON COUNTY (CONT)\1177203 - D485 - N OHIO ST AT 12TH RD N\07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS.SMITH



CONSTRUCTION NOTES

- 1 PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)
- 1A PROP CONCRETE MEDIAN, VDOT STD MS-1A
- 1B PROP CURB AND GUTTER (C-2R) ARL STD (R-2.0)
- 2 PROP SIDEWALK ARL STD (R-2.0)
- 2A PROP RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02) SEE SHEETS C042.1 TO C042.5 FOR CURB RAMP DETAILS
- 2B PROP RAMP (CG-12, TYPE B - MODIFIED) VDOT ROAD & BRIDGE STANDARDS (204.03), SEE SHEETS C042.1 TO C042.5 FOR CURB RAMP DETAILS
- 2D PROP RAMP (CG-12, TYPE M2) VDOT ROAD & BRIDGE STANDARDS (204.05), SEE SHEETS C042.1 TO C042.5 FOR CURB RAMP DETAILS
- 2E PROP RAMP (CG-12A - MODIFIED) VDOT ROAD & BRIDGE STANDARDS (204.02) SEE SHEETS C042.1 TO C042.5 FOR CURB RAMP DETAILS
- 3 PROP RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE (STANDARD) ARL STD (R-2.4A)
- 4 PROP RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE (DEPRESSED) ARL STD (R-2.4B)
- 7 ADJUST EXISTING STORM DRAIN MANHOLE TO PROPOSED GRADE PER ARL STD S-2.5
- 8 PROP STANDARD CATCH BASIN, CB-2 PER ARL STD (D-1.2)
- 8A PROP STANDARD CATCH BASIN CB-2A PER ARL STD (D-1.3)
- 9 CONVERT CATCH BASIN TO MANHOLE
- 9A CONVERT CATCH BASIN TO GRATE INLET
- 10 PROP ASPHALT TRAIL, SEE SHEET C004.1 FOR TYPICAL SECTION
- 11 MATCH EXISTING CURB & GUTTER AND/OR SIDEWALK
- 12 EXISTING FENCE TO REMAIN
- 13 ADJUST SANITARY MANHOLE TO PROPOSED GRADE
- 14 DO NOT DISTURB EXISTING SHRUB
- 15 RELOCATE EXISTING GAS MAIN BY OTHERS (PROP CURB & GUTTER OVER EXISTING GAS MAIN)
- 16 REMOVE EXISTING STREETLIGHT
- 17 RELOCATE EXISTING UTILITY POLE BY OTHERS
- 18 INSTALL PROPOSED STREETLIGHT BY OTHERS
- 20 DO NOT DISTURB EXISTING WALL AND FOUNDATION
- 27 REMOVE EXISTING MEDIAN
- 28 ADJUST EXISTING WATER METER TO PROPOSED GRADE
- 29 ADJUST EXISTING FIRE HYDRANT VALVE TO PROPOSED GRADE
- 30 EXISTING SHRUB TO BE RELOCATED WITH COORDINATION FROM PROPERTY OWNER
- 32 REMOVE EXISTING WALL STRUCTURE
- 33 ADJUST EXISTING CATCH BASIN TO PROPOSED GRADE. REPLACE CATCH BASIN TOP SLAB.
- 34 PROPOSED 4" ASPHALT CURB

ARLINGTON VIRGINIA
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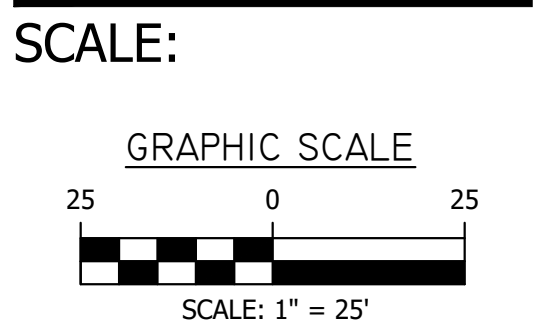
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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D-485
 PLAN

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023



C041.1

CONSTRUCTION NOTES

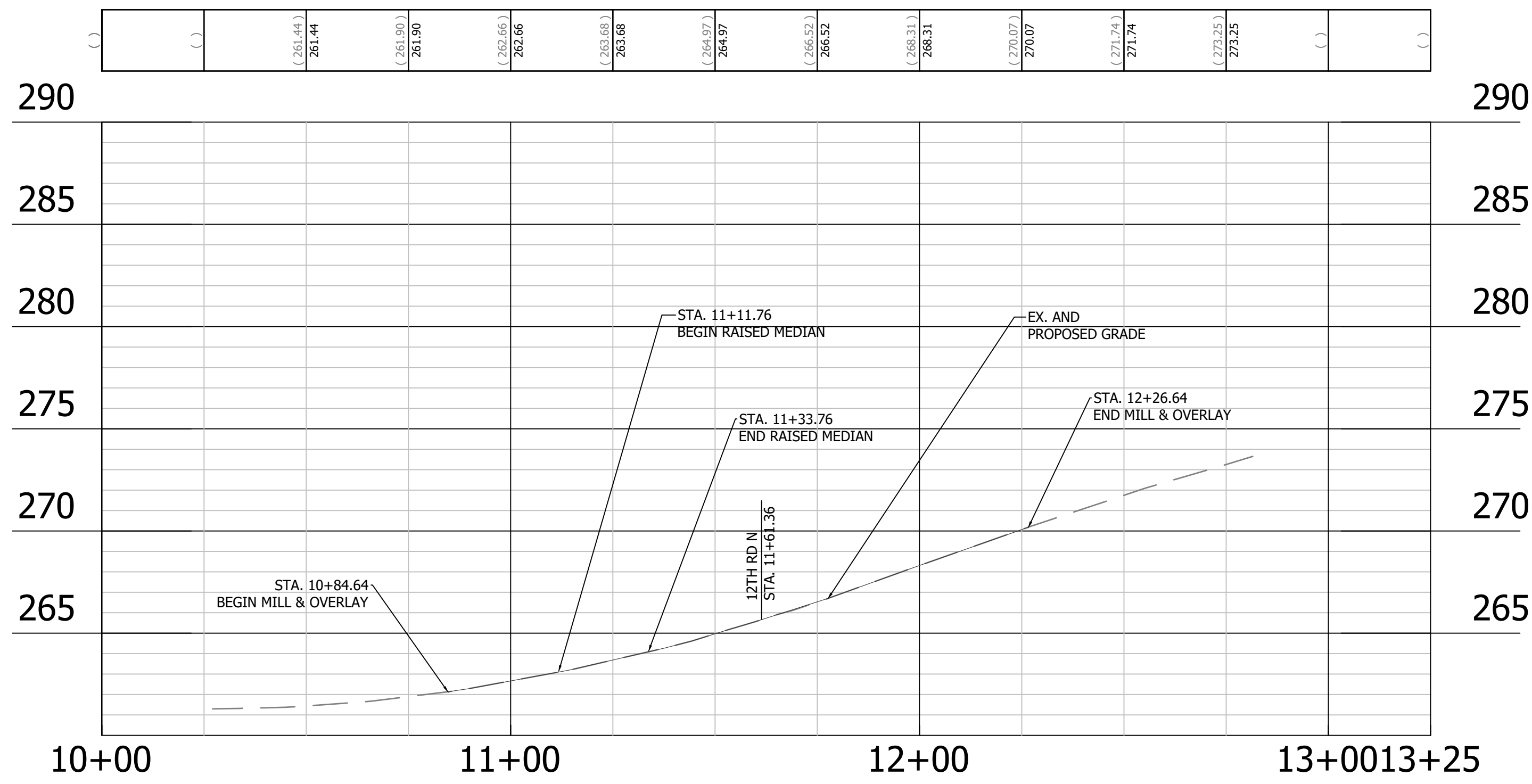
- 1 STA. 20+87.69, 12TH RD N BEGIN MILL & OVERLAY
- 2 STA. 22+09.90 RT, 12TH RD N BEGIN FULL DEPTH
- 3 STA. 22+69.93 RT, 12TH RD N END FULL DEPTH
- 4 STA. 30+52.44, 11TH RD N BEGIN MILL & OVERLAY
- 5 STA. 10+84.77, N OHIO ST BEGIN MILL & OVERLAY
- 6 STA. 12+20.00, N OHIO ST END MILL & OVERLAY
- 7 STA. 100+03.51, BEGIN WEST TRAIL
- 8 STA. 101+32.84, WEST TRAIL TIE-IN

NOTES:

- THERE SHALL BE NO STAGING OR STORAGE OF VEHICLES/MATERIALS ON PARK LANDS WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF PARKS AND RECREATION.
- WORK WITHIN THE LIMITS OF THE TEMPORARY EASEMENT AT 1116 N OHIO STREET WILL BE LIMITED ON MONDAY THROUGH FRIDAY FROM 8AM TO 8PM AND ON SATURDAY THROUGH SUNDAY FROM 10AM TO 9PM.
- THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND PROPERTY OWNER ON SHRUB RELOCATION ACTIVITIES.

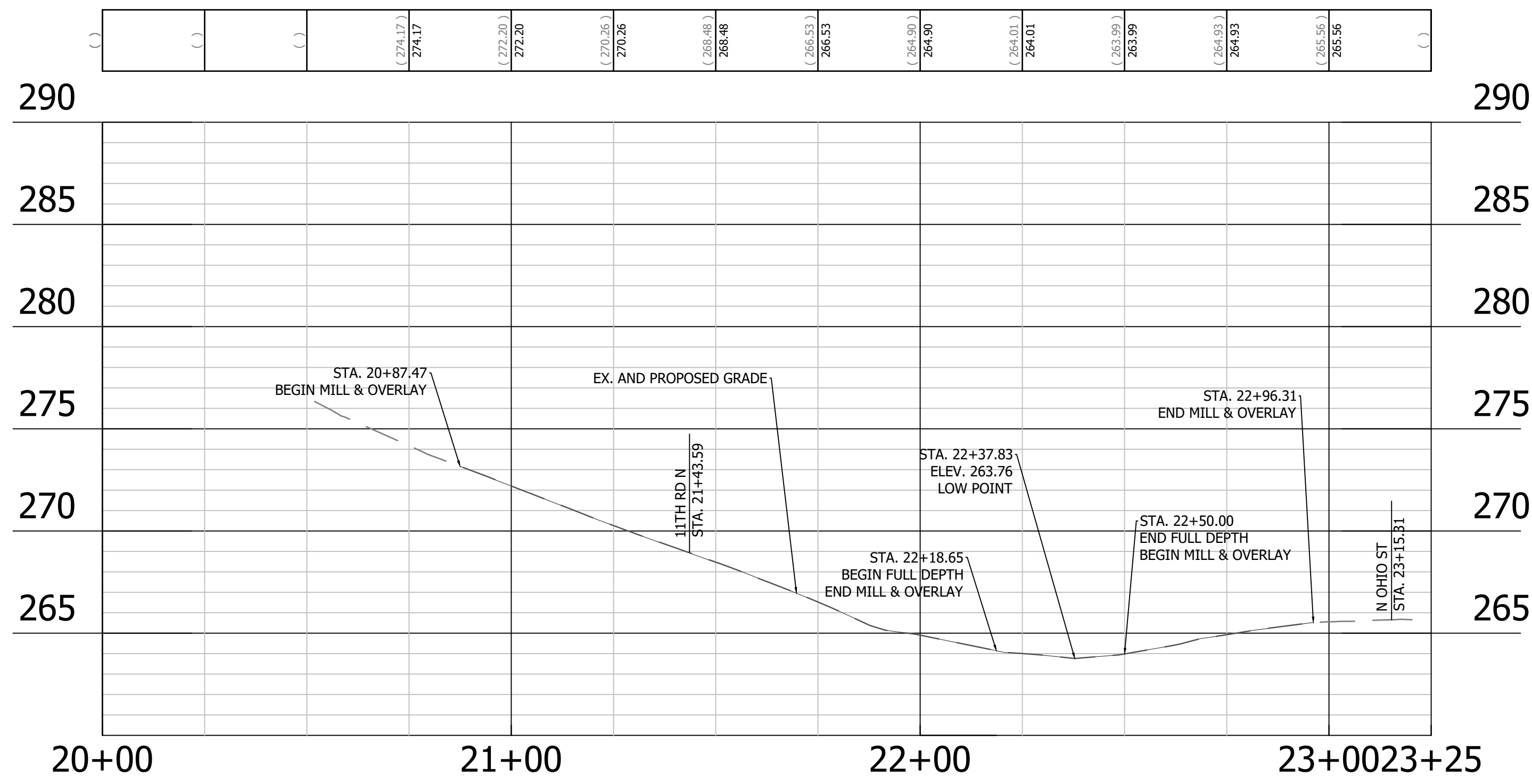
LEGEND

- PROP MILL & OVERLAY
SEE TYPICAL SECTION FOR DETAILS
- PROP FULL DEPTH ASPHALT
SEE TYPICAL SECTION FOR DETAILS
- PROP CONCRETE
SEE TYPICAL SECTION FOR DETAILS
- TEMPORARY CONSTRUCTION EASEMENT
- GRASS BUFFER



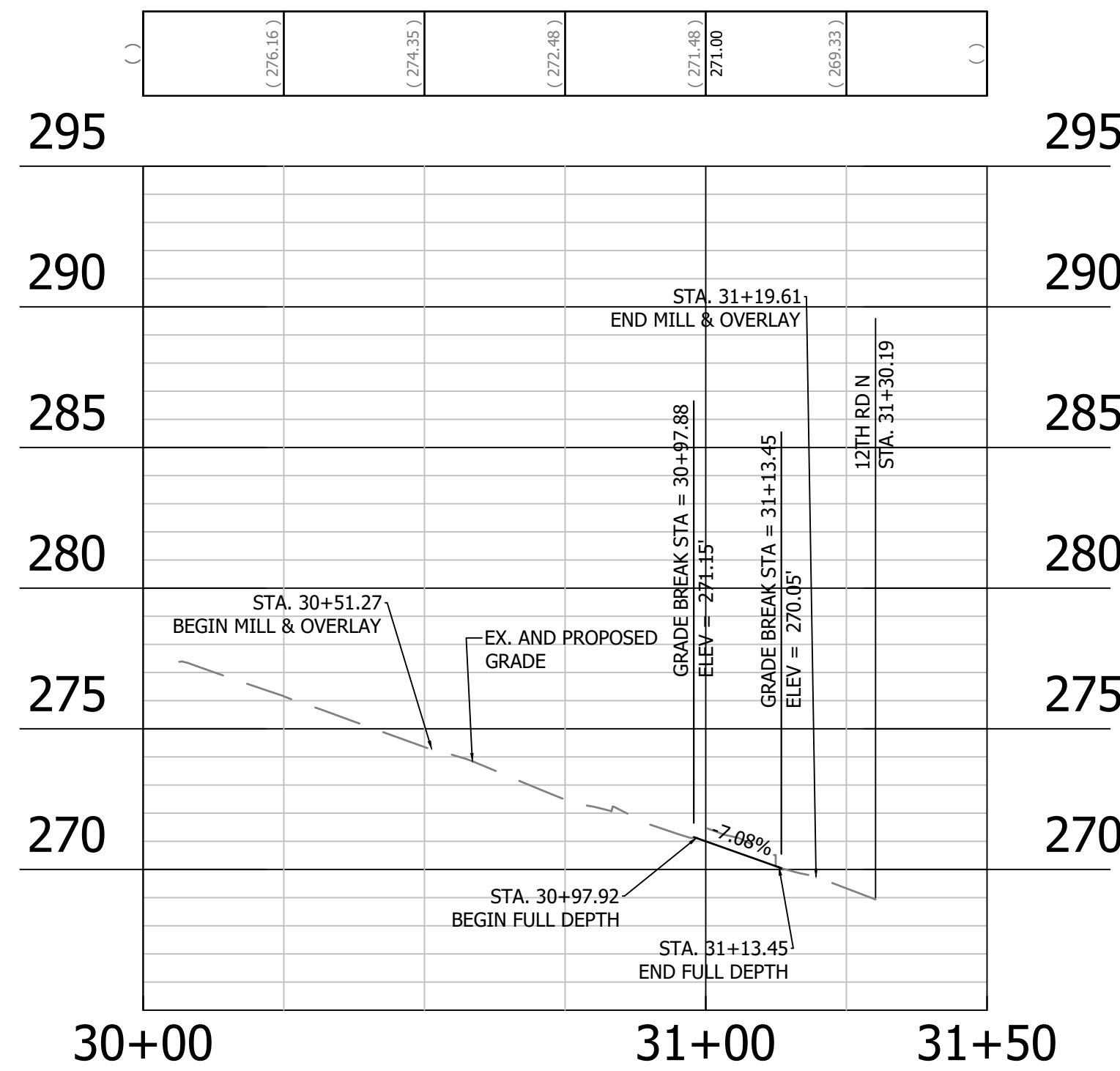
N OHIO ST PROFILE

HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



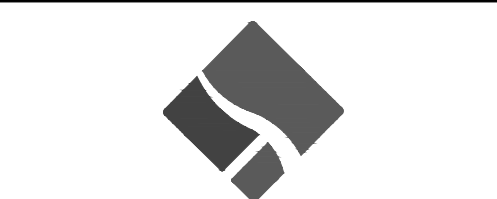
12TH RD N PROFILE

HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



11TH RD N PROFILE

HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



ARLINGTON VIRGINIA

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DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS DATE

REVISIONS	DATE

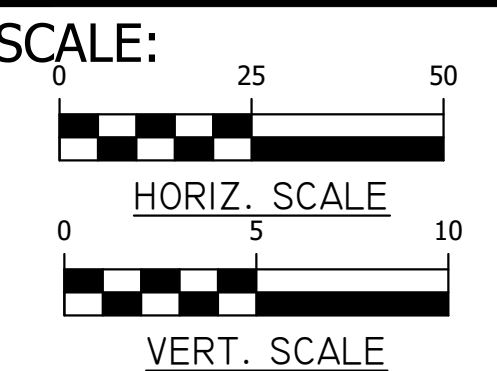
N OHIO ST AND 12TH RD N INTERSECTION

D485

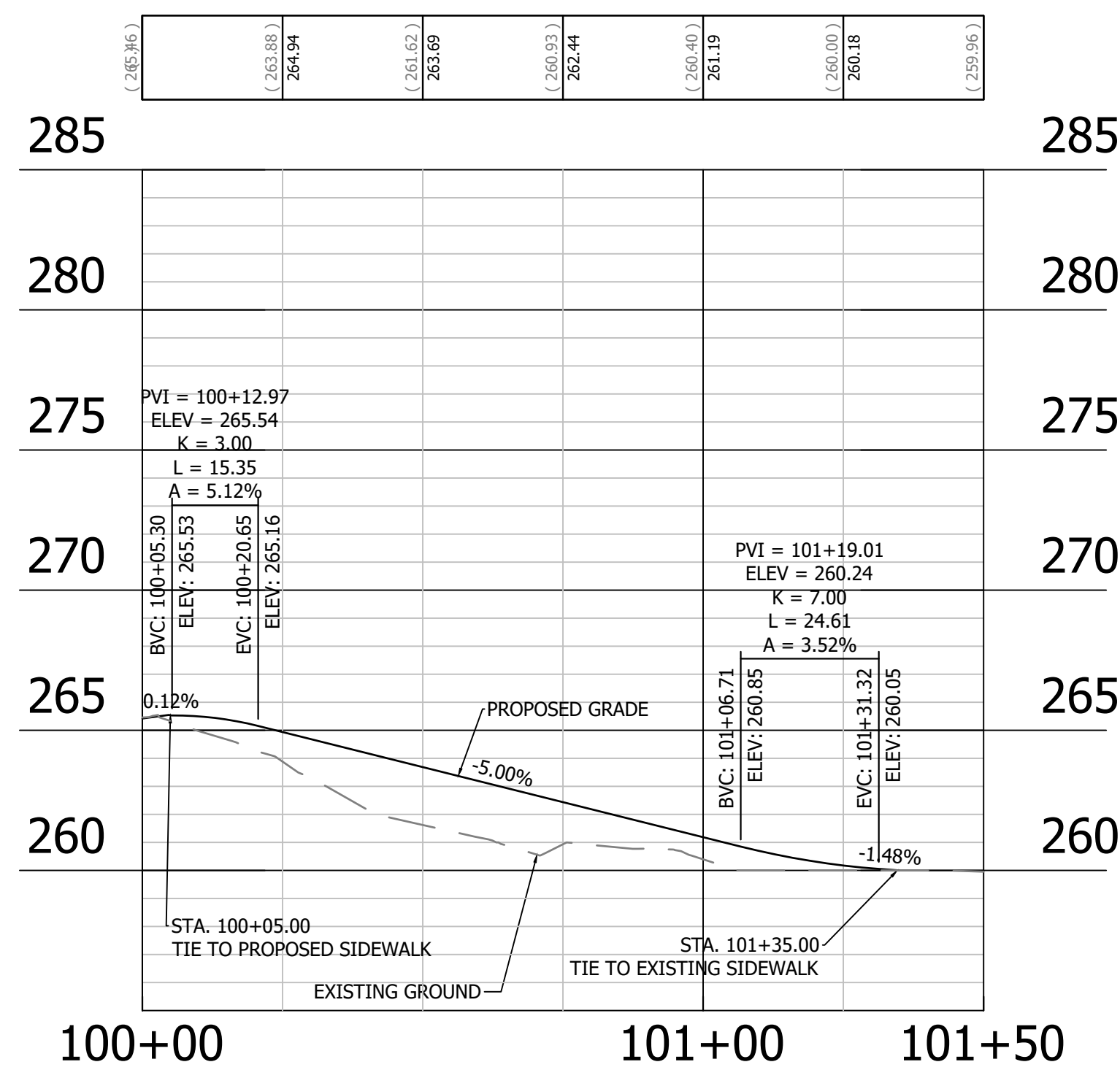
ROADWAY PROFILES

DESIGNED: BB
DRAWN: MS
CHECKED: BG

PLOTTED: DECEMBER 21 2023

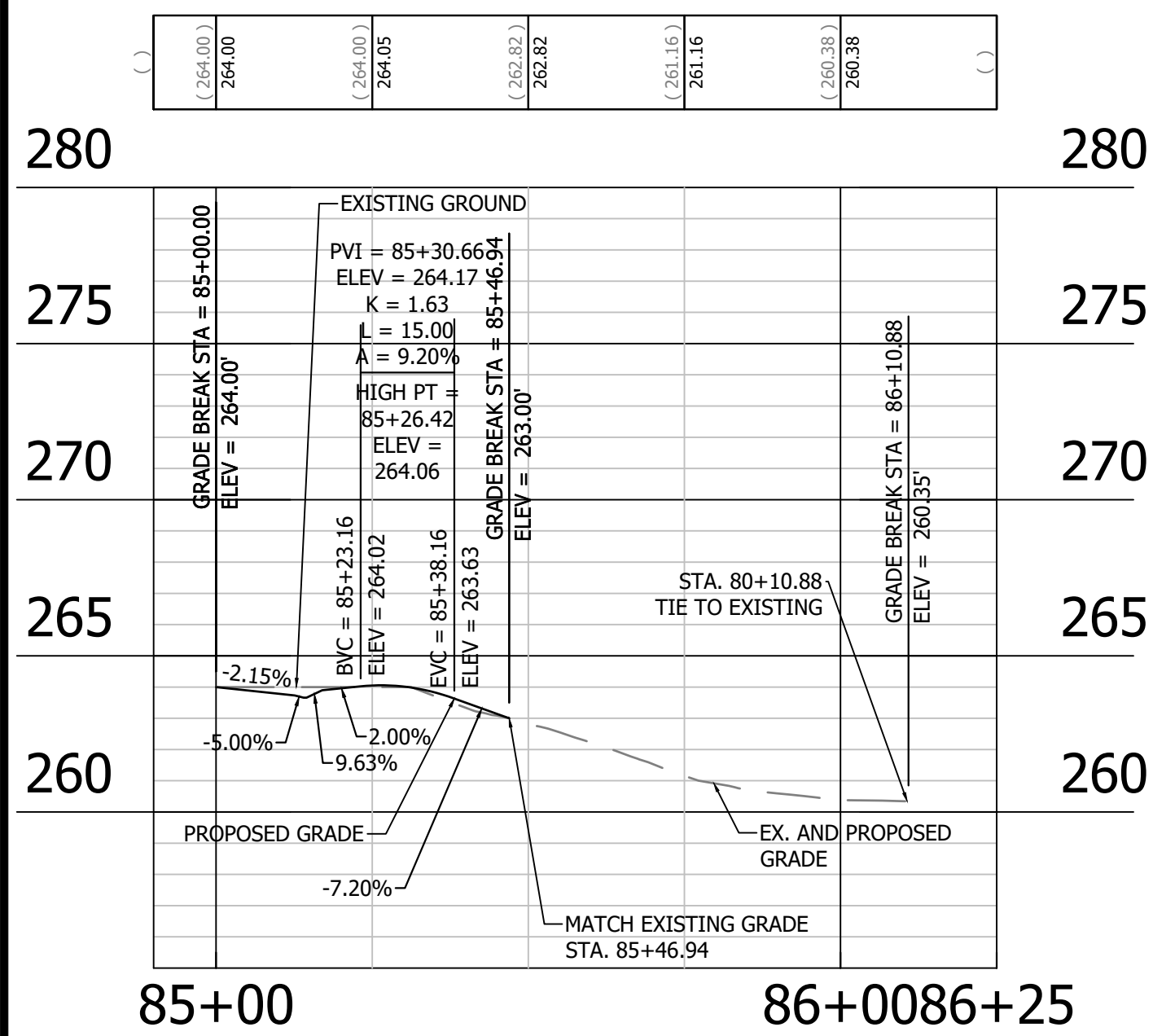


C041.2



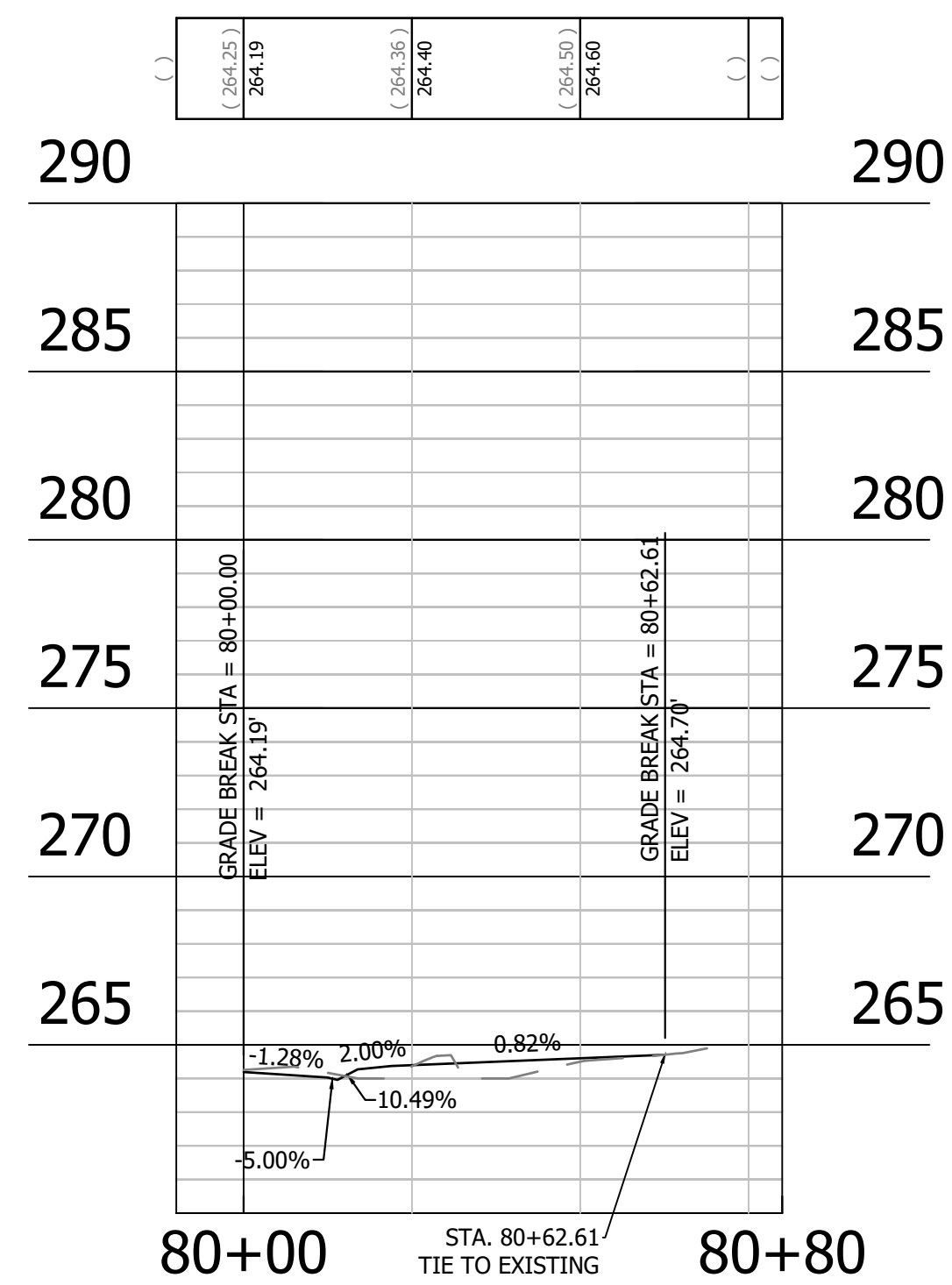
WEST TRAIL PROFILE

HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



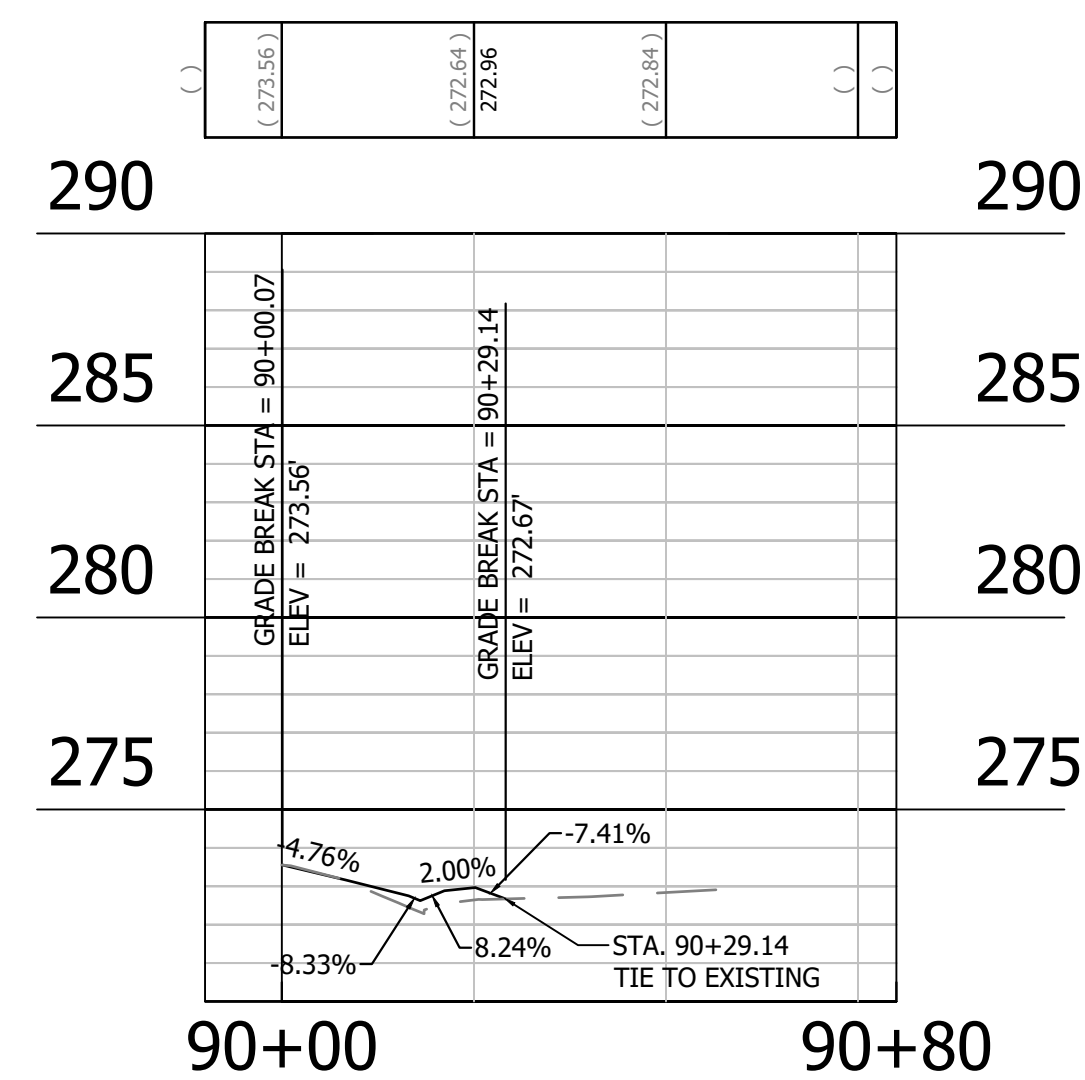
DRIVEWAY PROFILE

12TH RD N STA. 22+42.55 LT
HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



DRIVEWAY PROFILE

12TH RD N STA. 22+55.54 RT
HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



DRIVEWAY PROFILE

11TH RD N STA. 30+62.02 RT
HOR. SCALE: 1" = 25'
VER. SCALE: 1" = 5'



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APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
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<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
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Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS DATE

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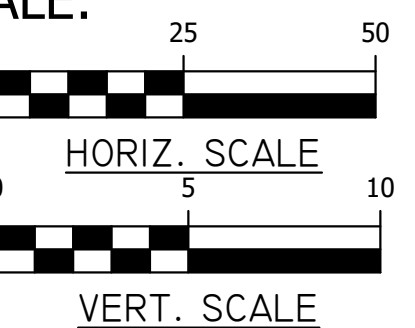
N OHIO ST AND 12TH RD N INTERSECTION
D485

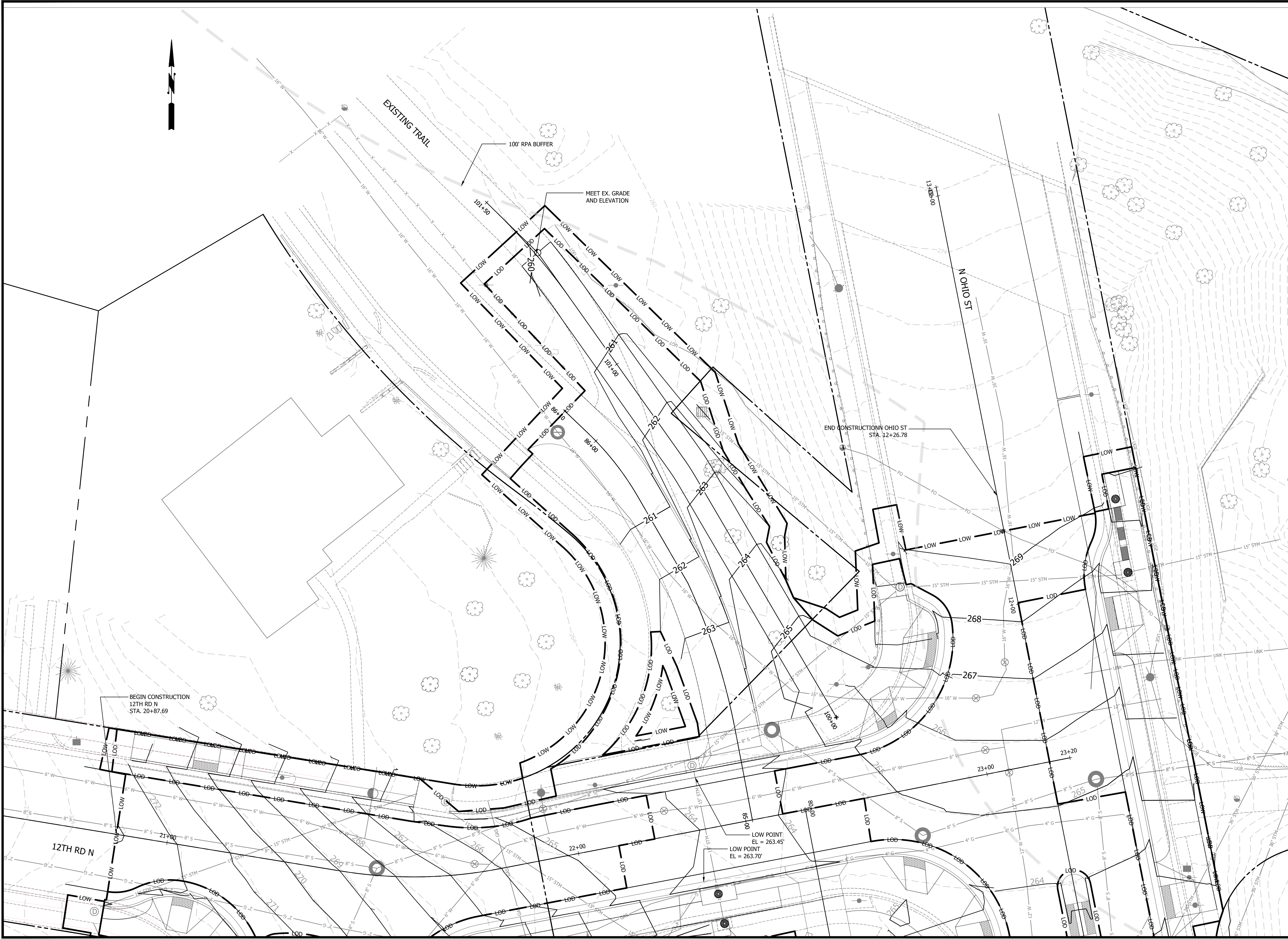
TRAIL AND DRIVEWAY PROFILES

DESIGNED: BB
DRAWN: MS
CHECKED: BG

PLOTTED: DECEMBER 21, 2023

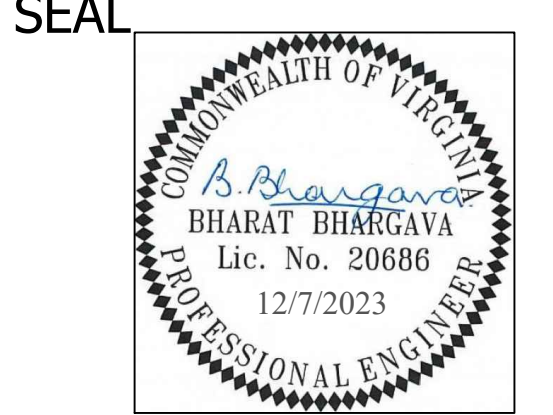
SCALE:





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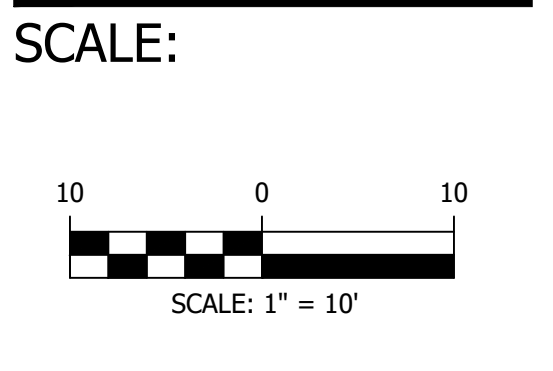


APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
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<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

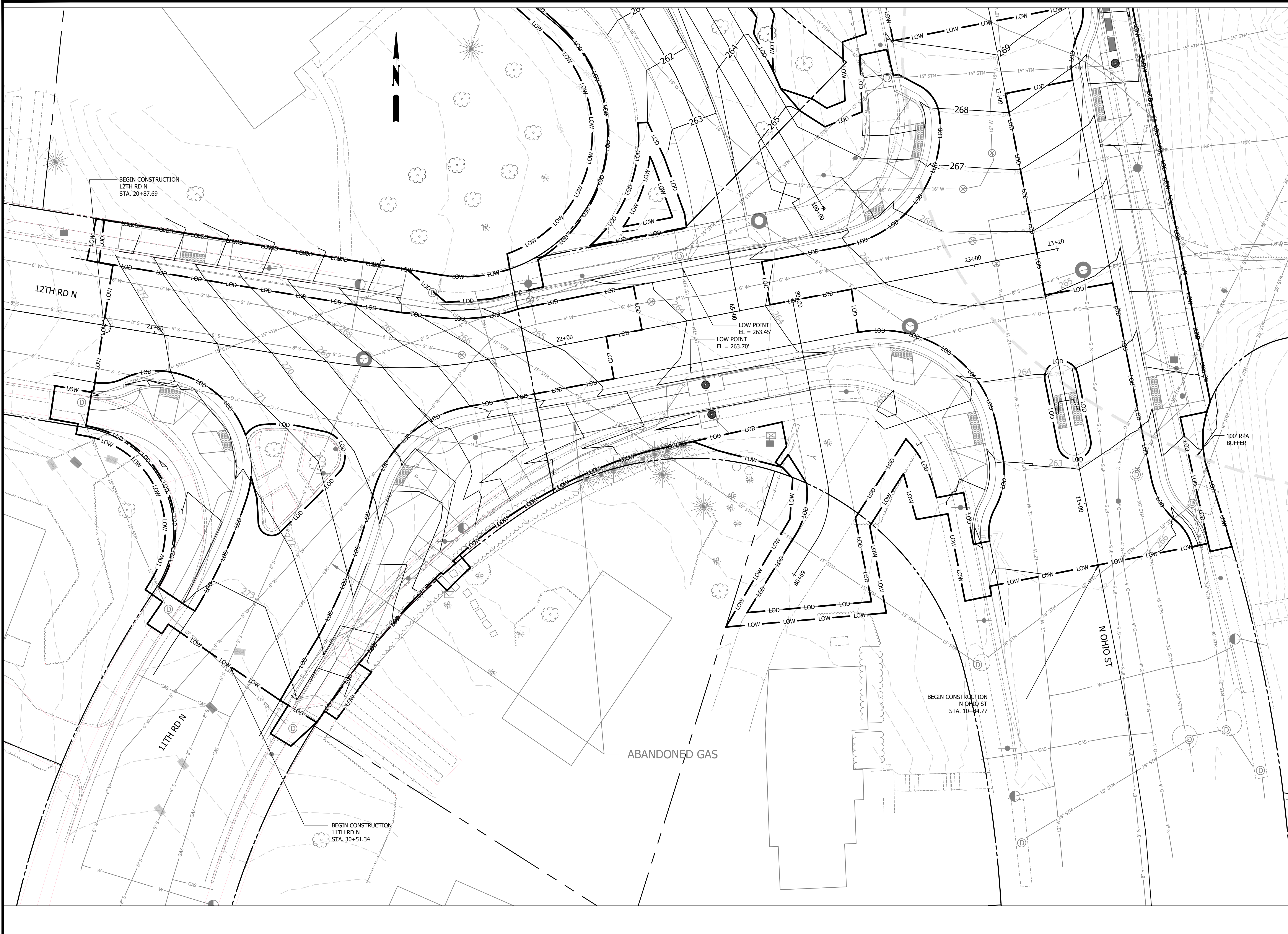
REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
PROPOSED GRADING PLAN - WEST TRAIL

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG
 PLOTTED: DECEMBER 21, 2023



C041.4



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APPROVALS	DATE
<i>[Signature]</i> DESIGN TEAM ENGINEER SUPERVISOR	1/11/2024
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/12/2024
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/11/2024
<i>[Signature]</i> ENGINEERING BUREAU CHIEF	1/12/2024
Kyle Kling PROJECT MANAGER	12/18/2023

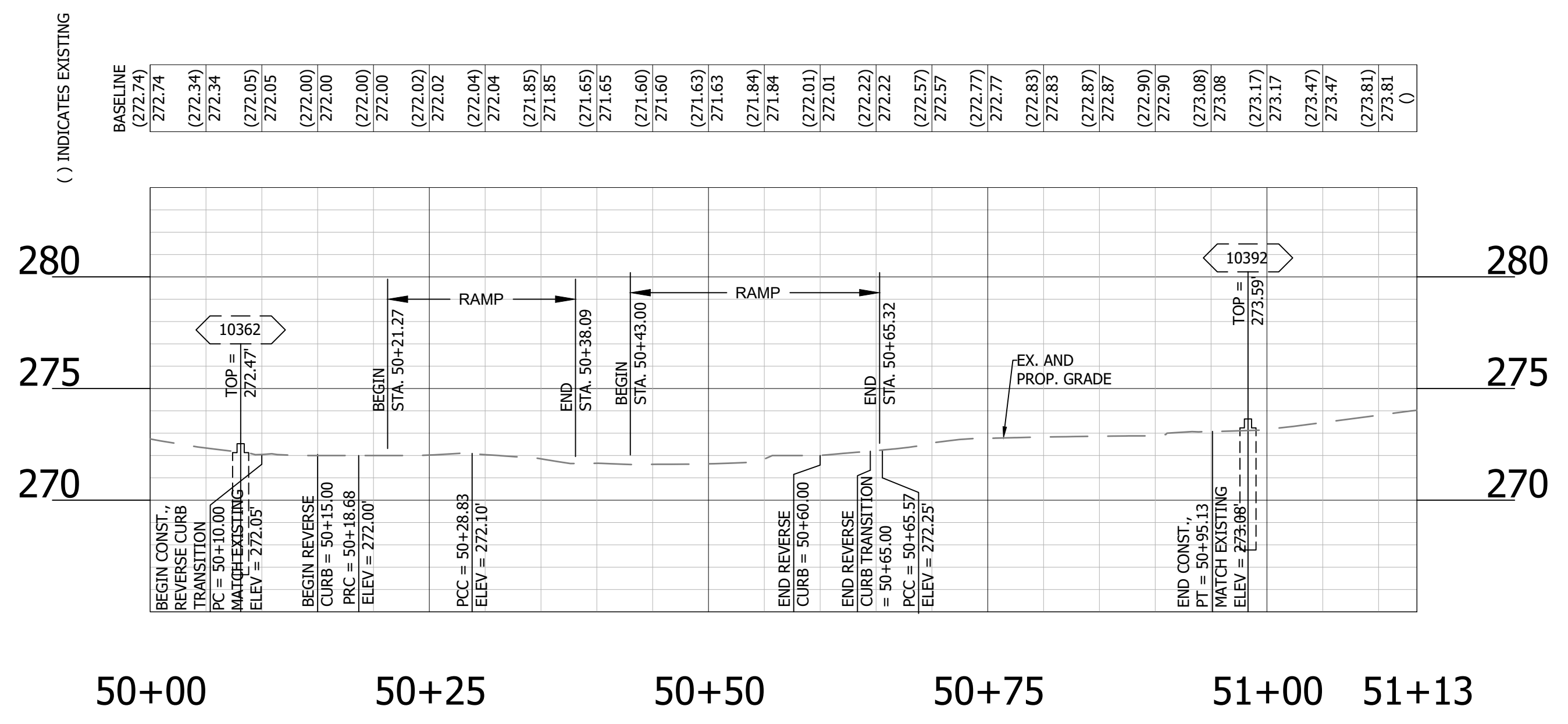
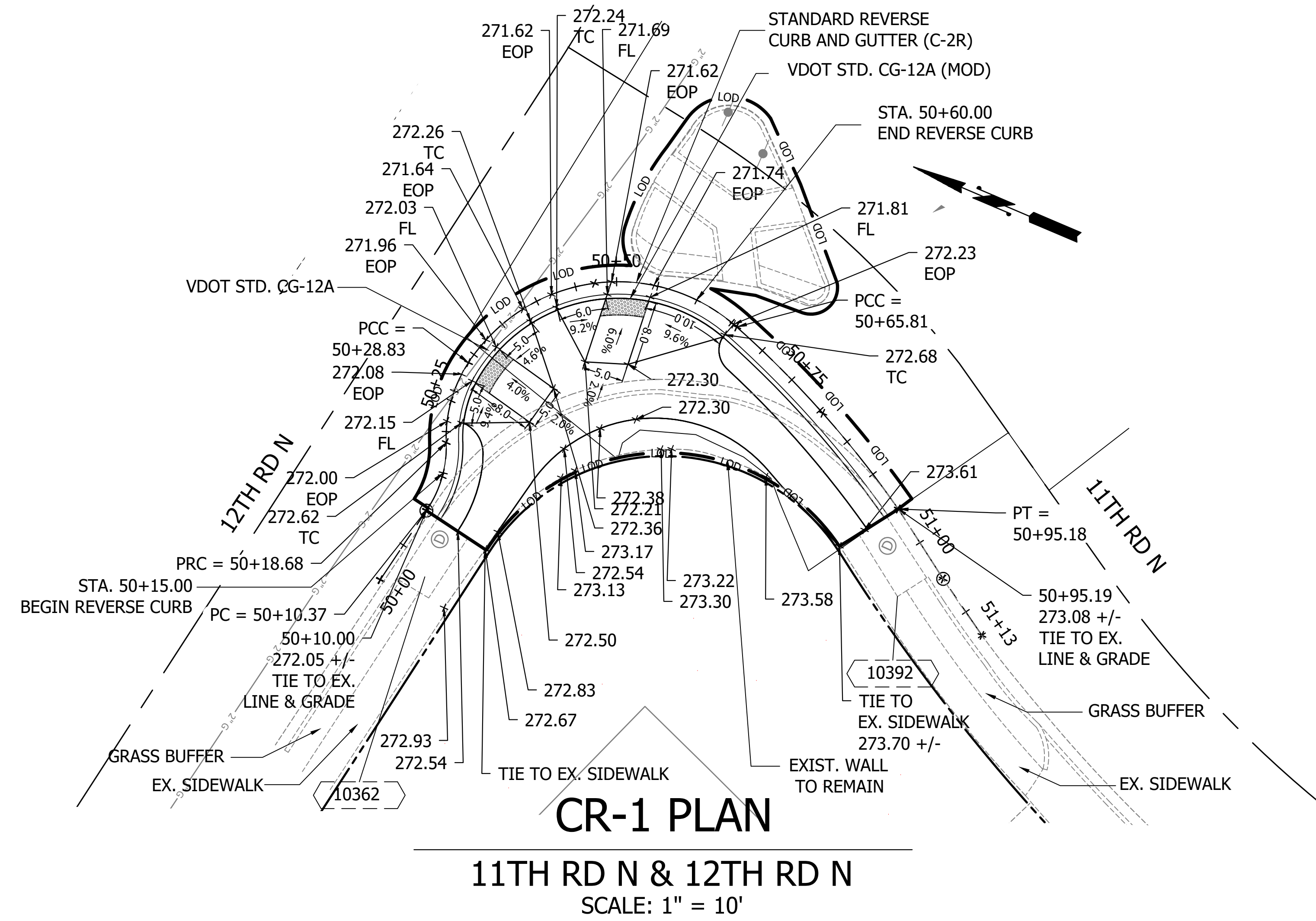
REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
PROPOSED GRADING PLAN - 11TH & 12TH ROAD

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG
 PLOTTED: DECEMBER 21, 2023

SCALE:

C041.5



CR-1 PROFILE
 11TH RD N & 12TH RD N
 HOR. SCALE: 1" = 10'
 VER. SCALE: 1" = 5'

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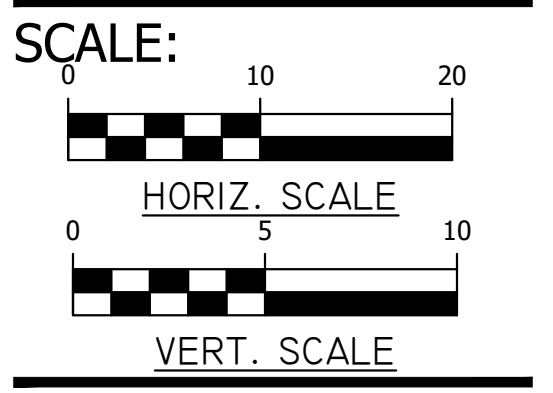
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

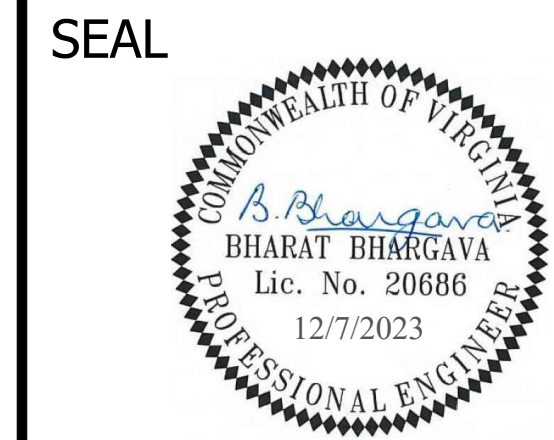
REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
CURB RAMP DETAILS - CR-1

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

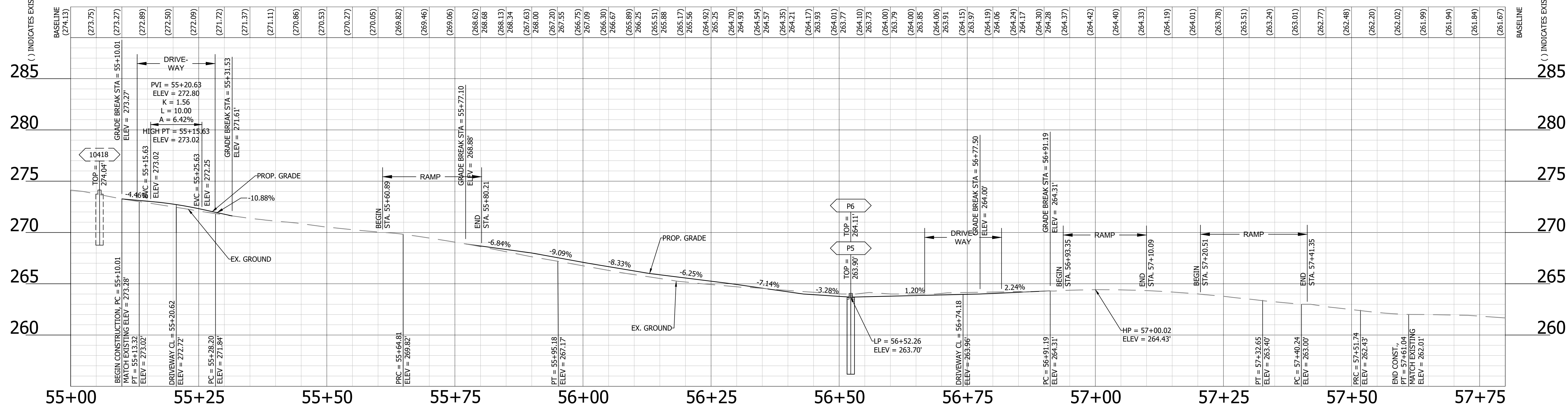
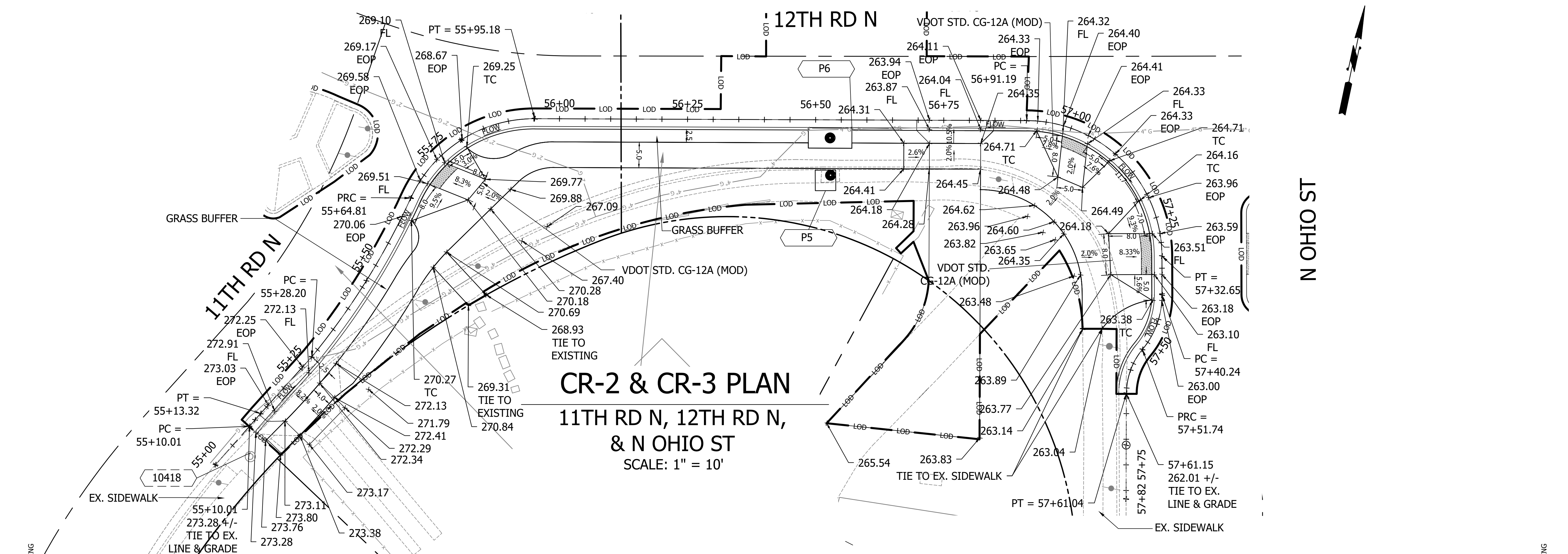
PLOTTED: DECEMBER 21, 2023





APPROVALS	DATE
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<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

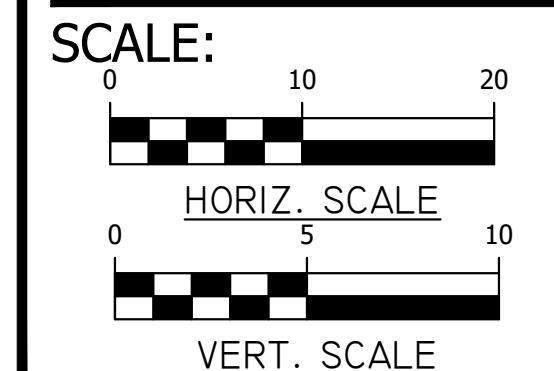
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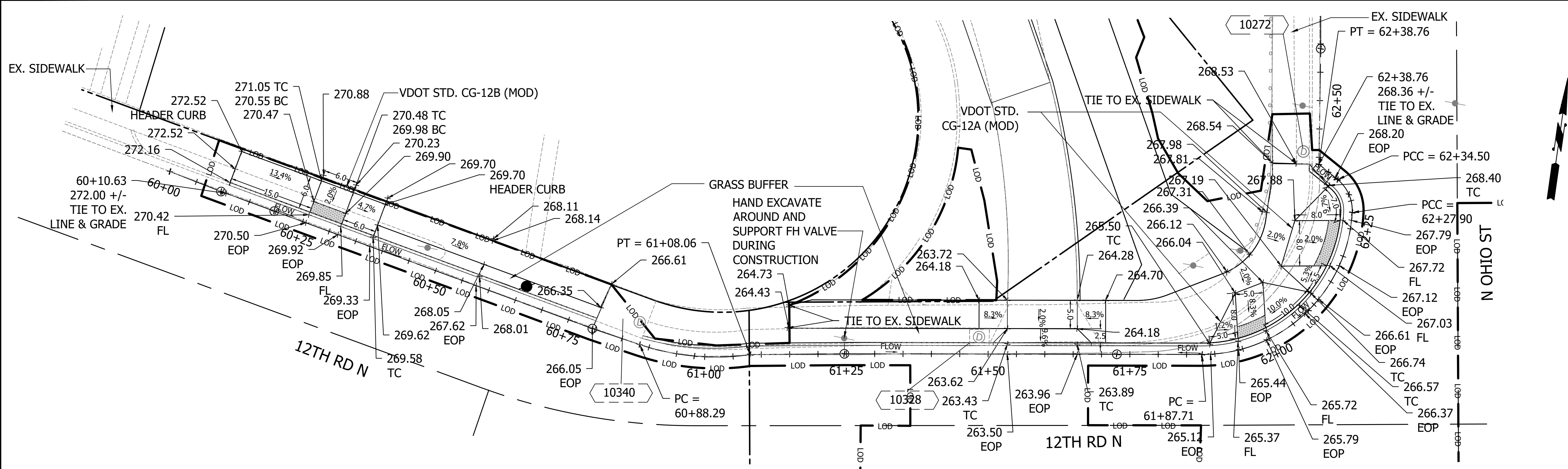


N OHIO ST AND 12TH RD N INTERSECTION
 D485
 CURB RAMP DETAILS - CR-2 & CR-3

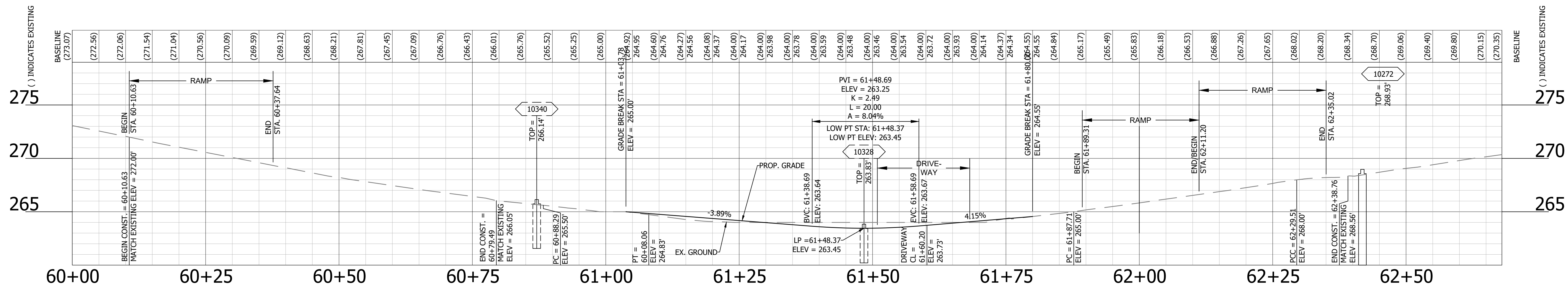
DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023





CR-4 & CR-5 PLAN
 12TH RD N & N OHIO ST
 SCALE: 1" = 10'



CR-4 & CR-5 PROFILE
 12TH RD N & N OHIO ST
 HOR. SCALE: 1" = 10'
 VER. SCALE: 1" = 5'



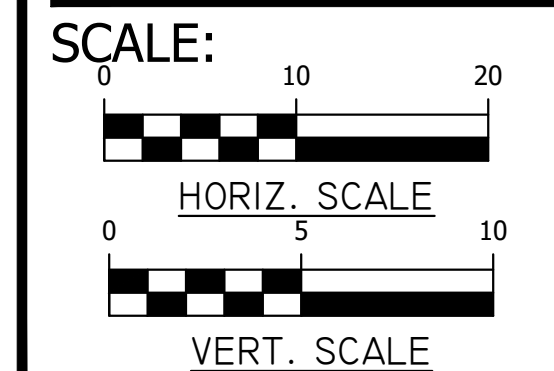
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
 CURB RAMP DETAILS - CR-4 & CR-5

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023





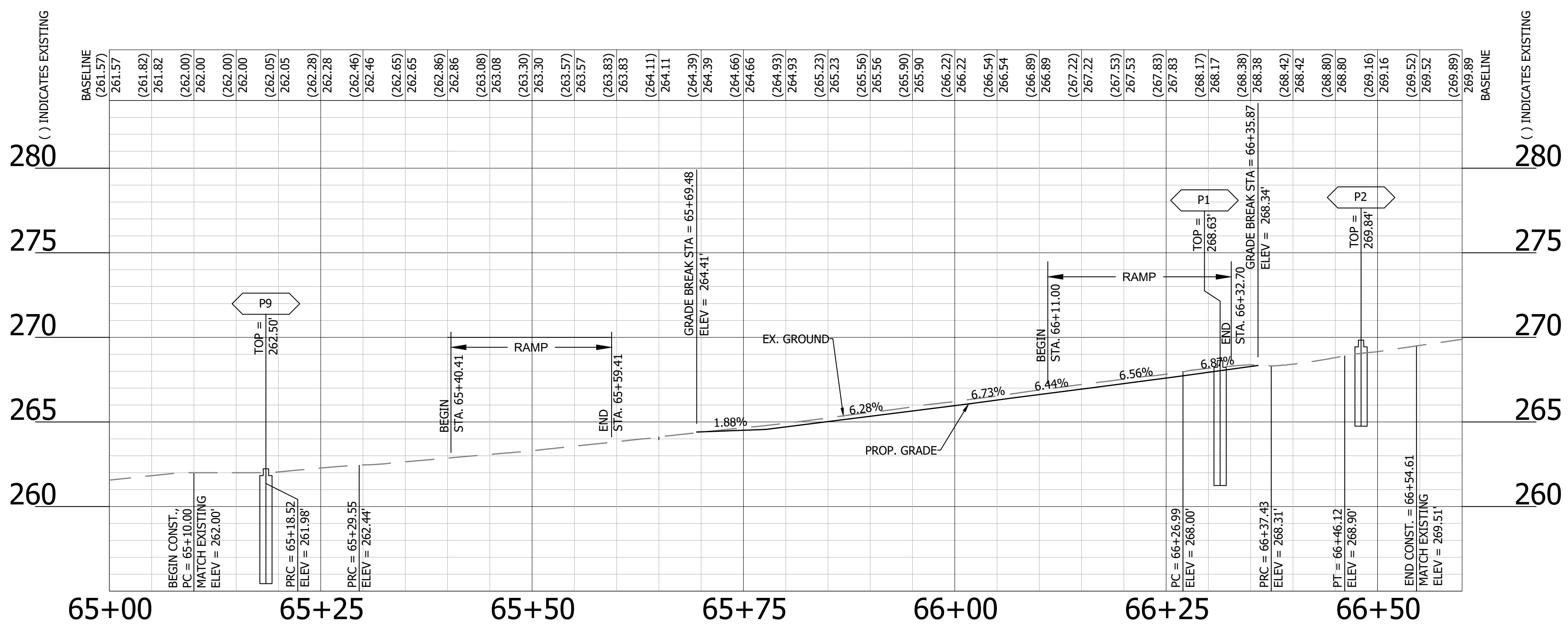
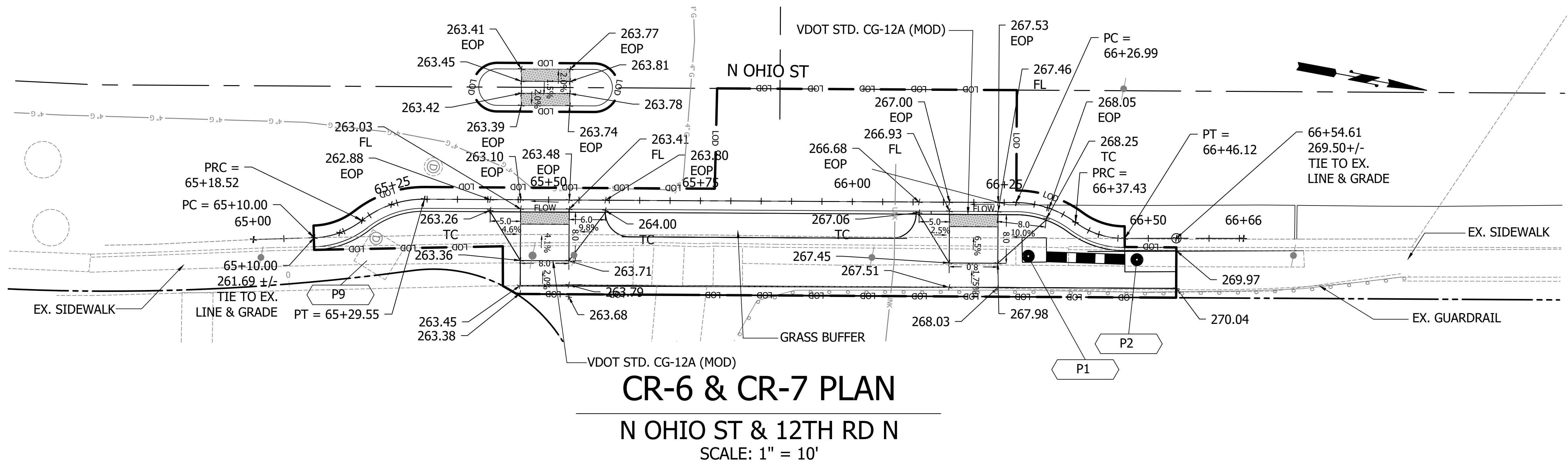
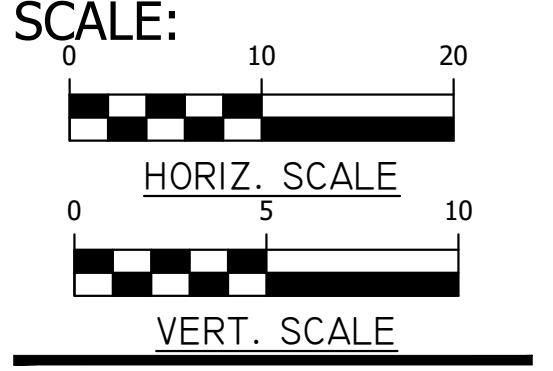
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
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CONSTRUCTION MANAGEMENT SUPERVISOR	
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<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

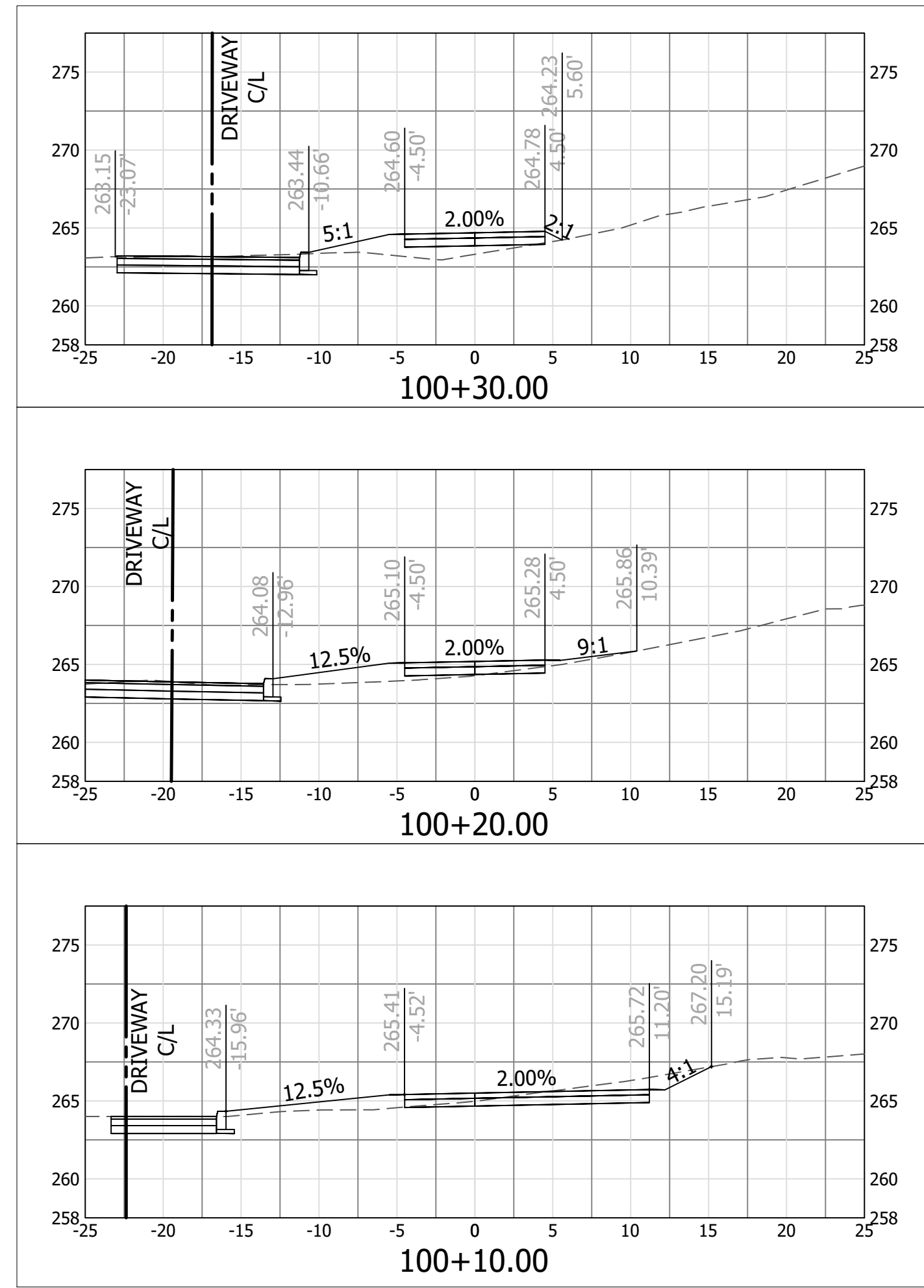
N OHIO ST AND 12TH RD N INTERSECTION
 D485
 CURB RAMP DETAILS - CR-6 & CR-7

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

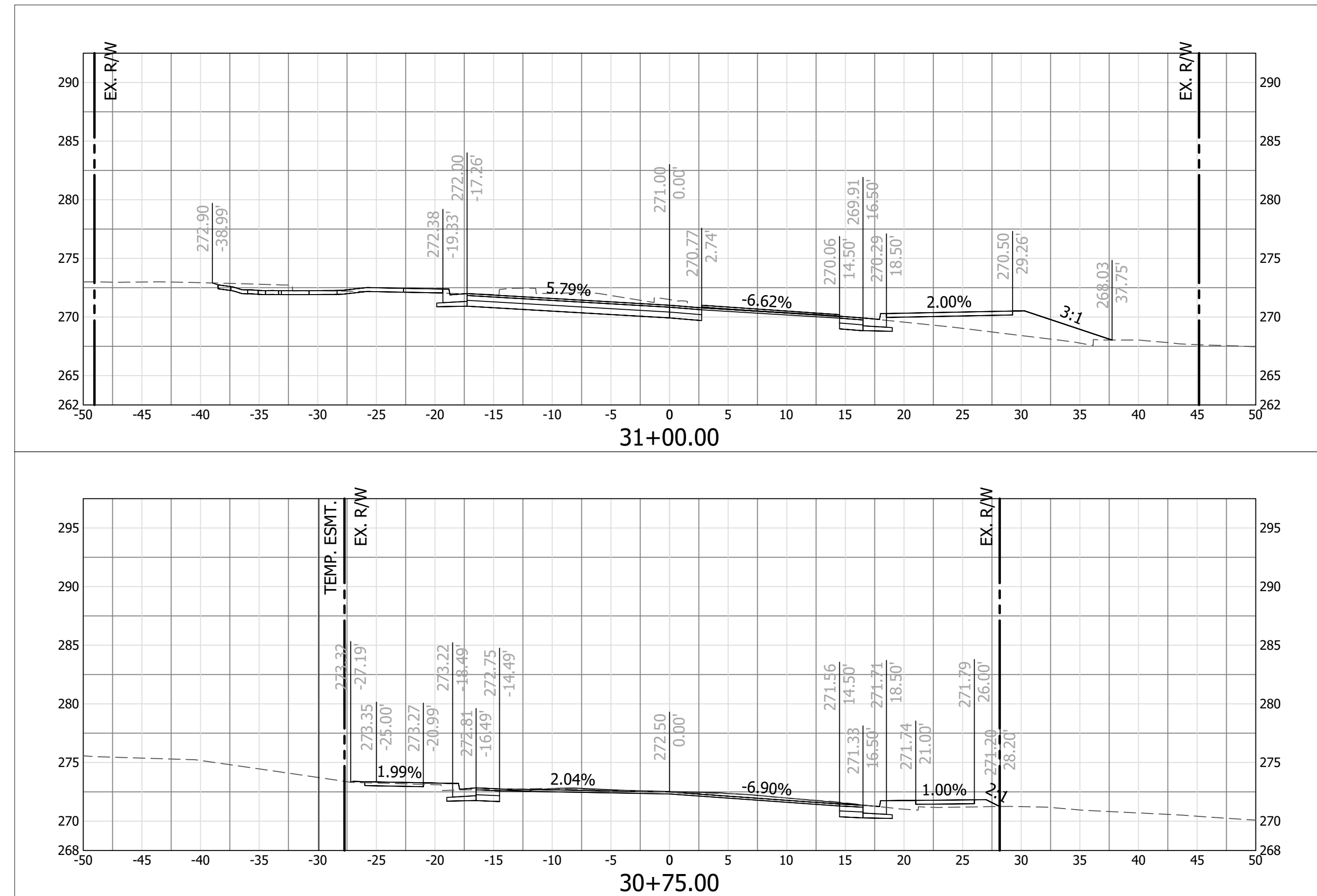
PLOTTED: DECEMBER 21, 2023



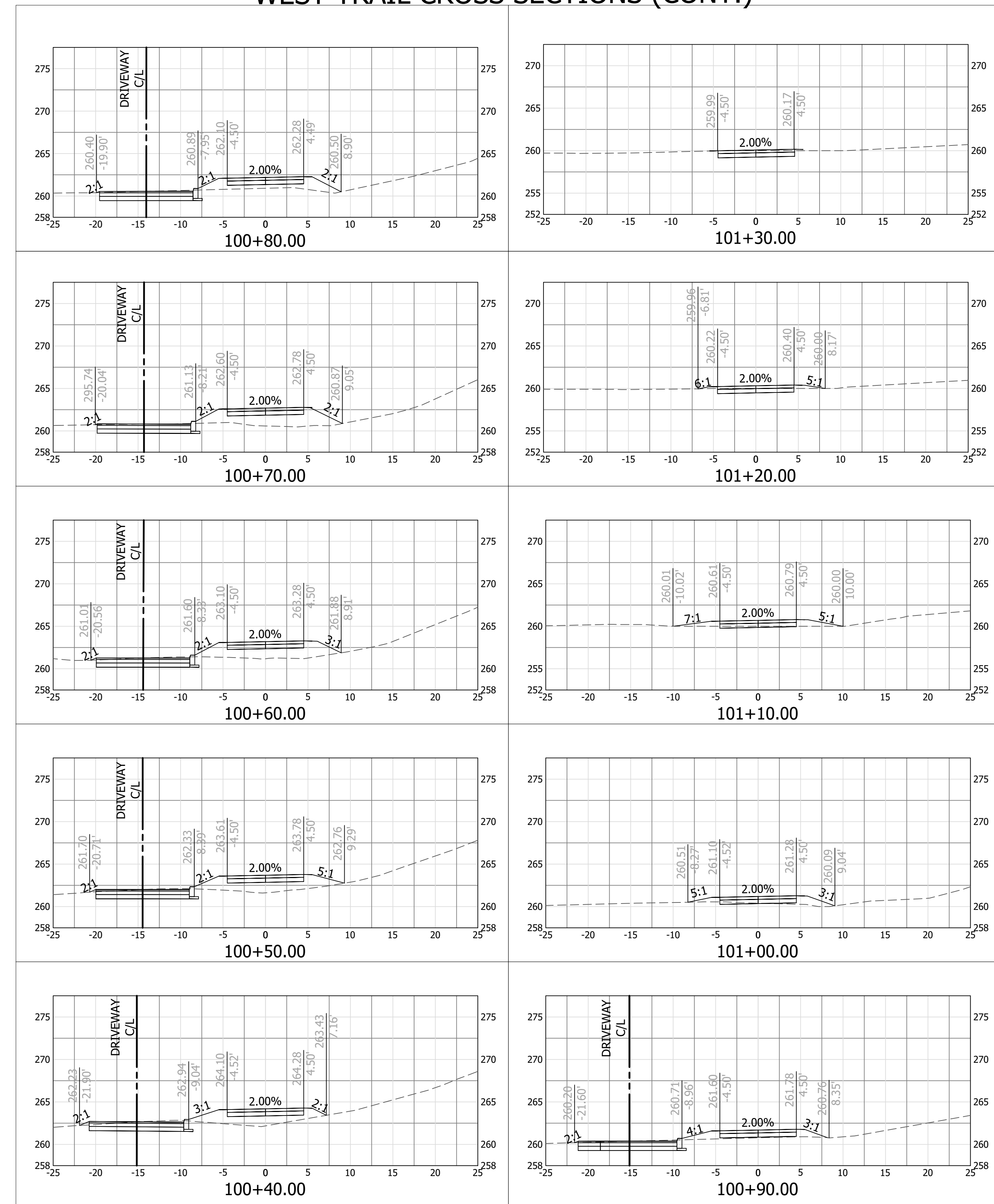
WEST TRAIL CROSS SECTIONS



11TH RD N CROSS SECTIONS



WEST TRAIL CROSS SECTIONS (CONT.)



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<i>[Signature]</i>	1/11/2024
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<i>[Signature]</i>	1/12/2024
CONSTRUCTION SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

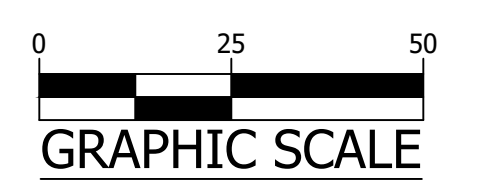
N OHIO ST AND 12TH RD N INTERSECTION
D485

11TH RD AND WEST TRAIL CROSS SECTIONS

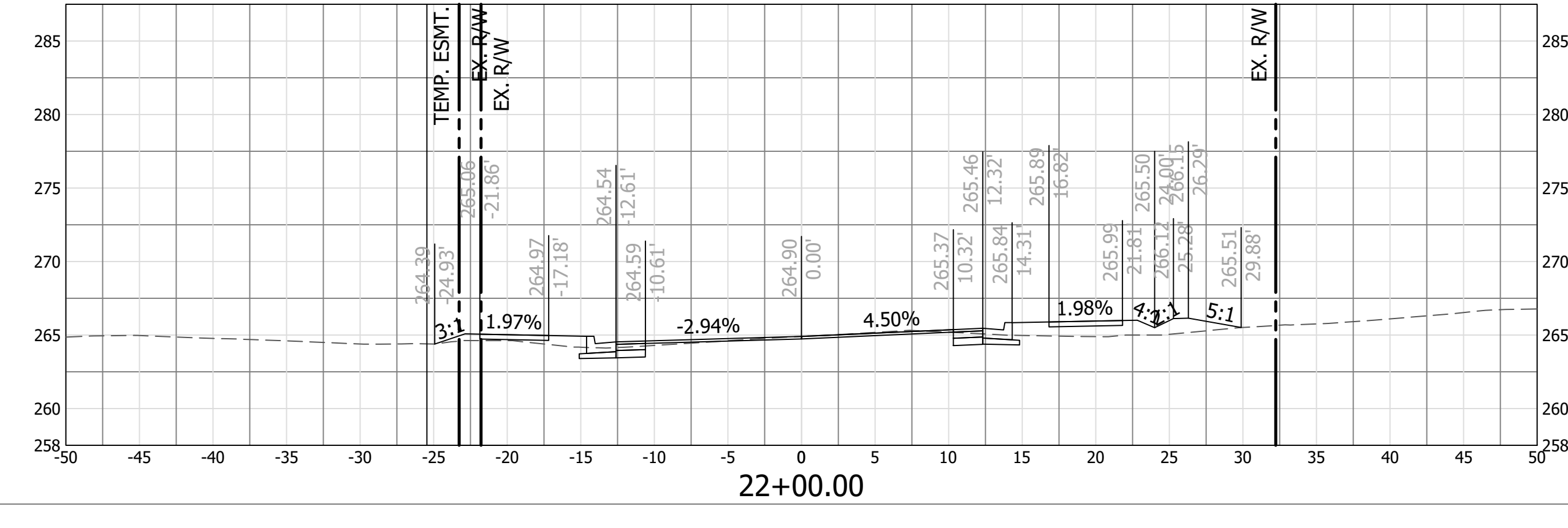
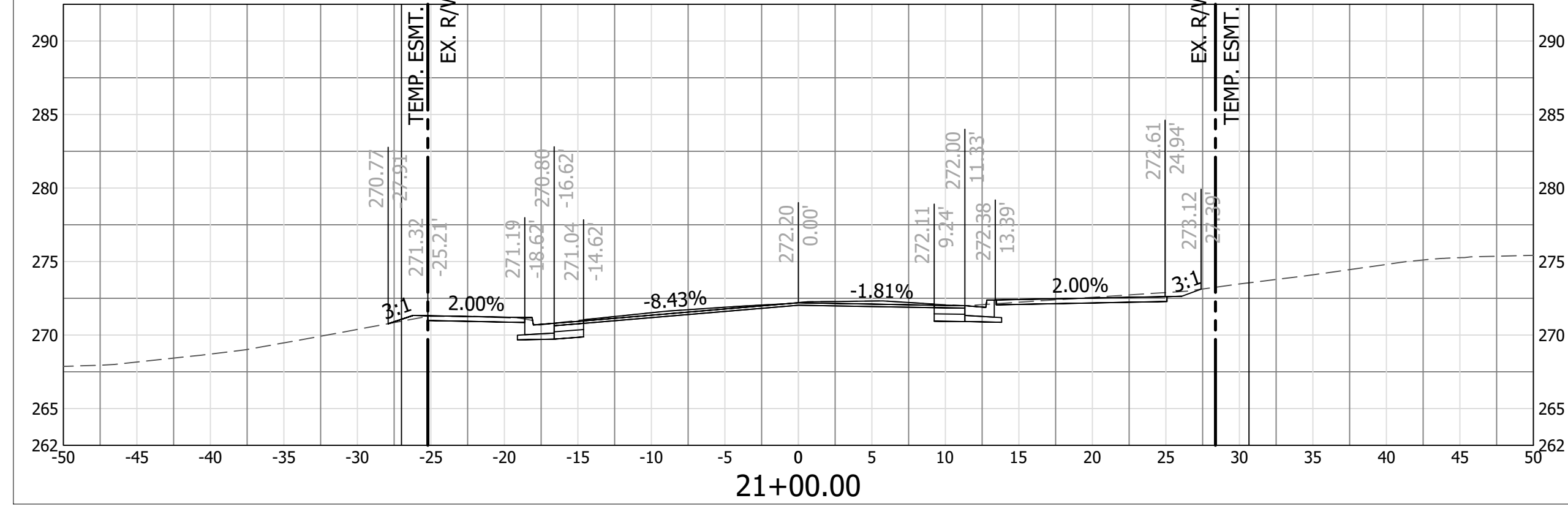
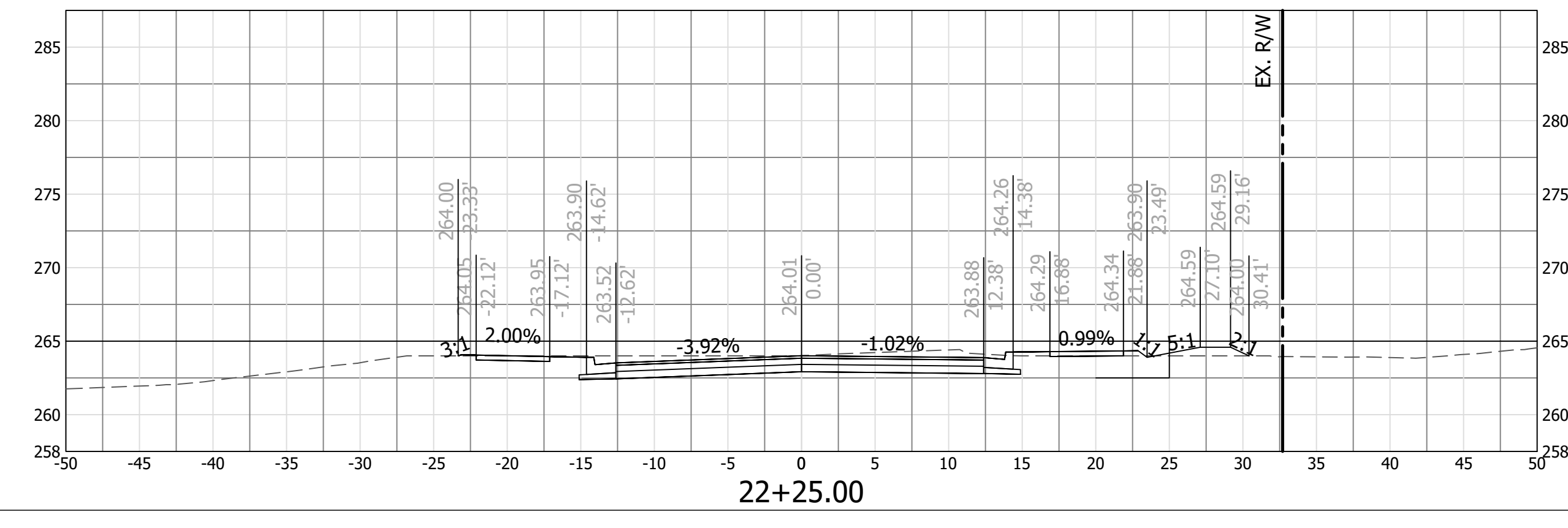
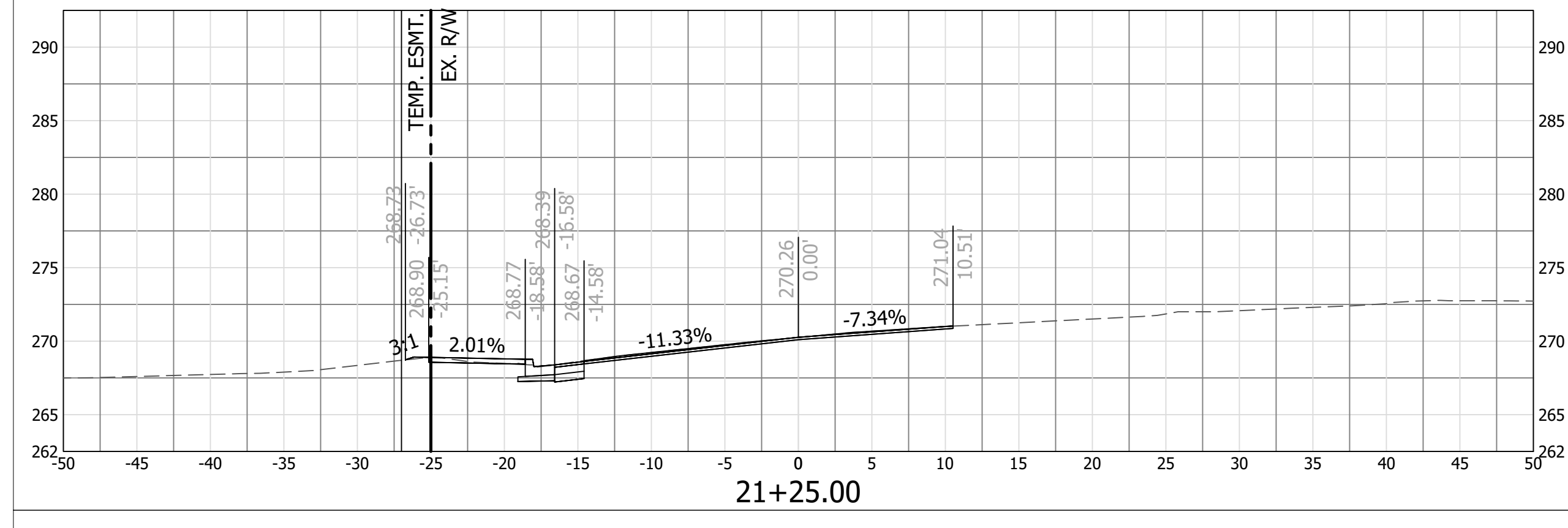
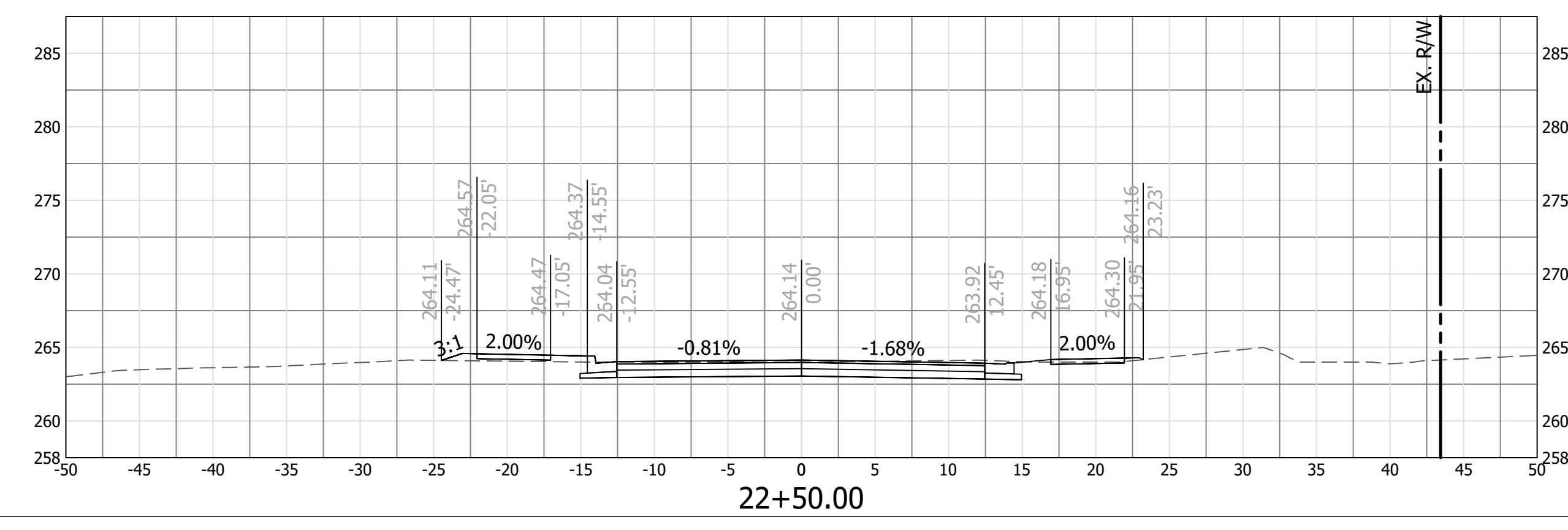
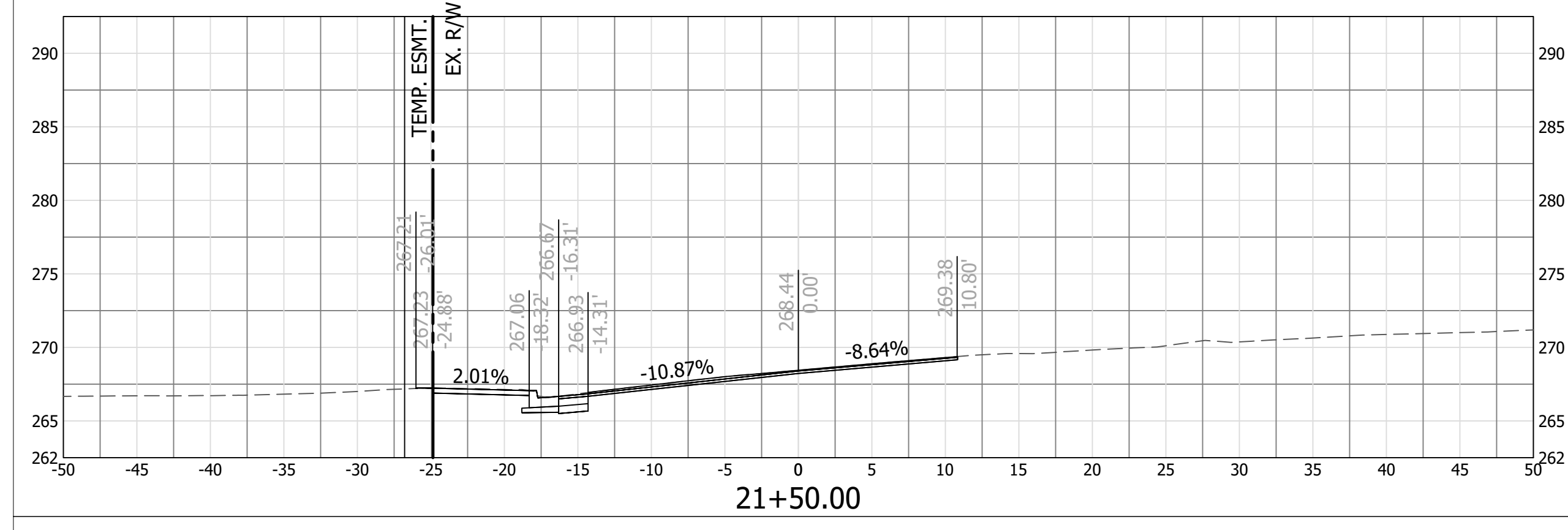
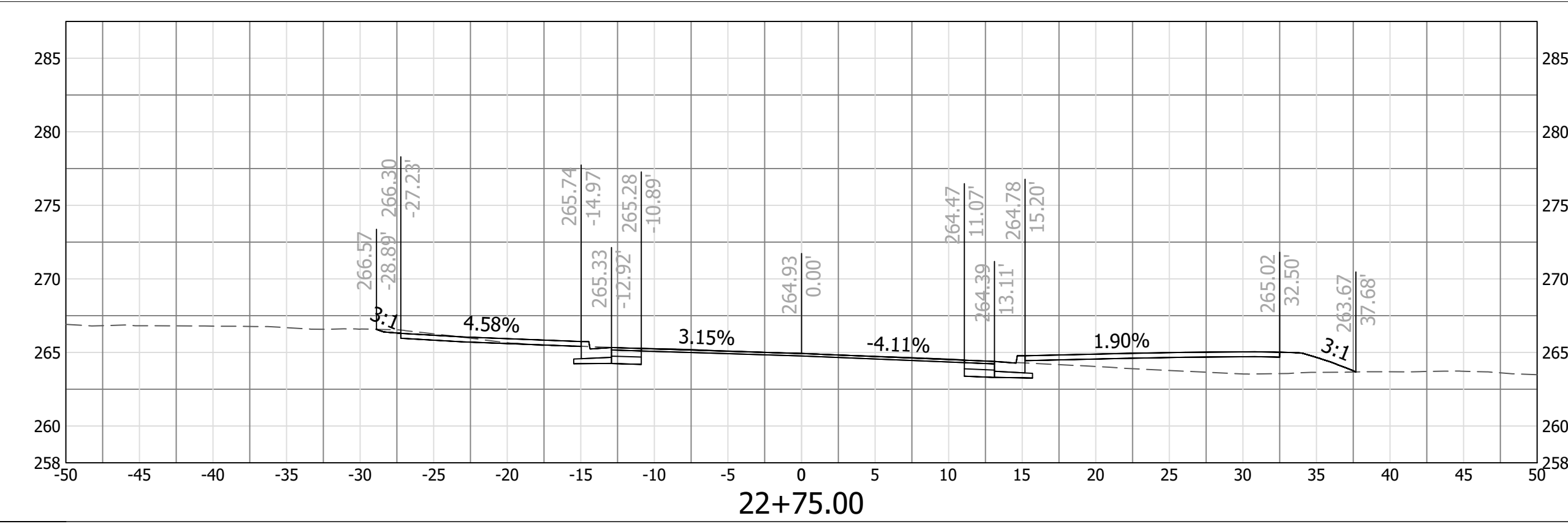
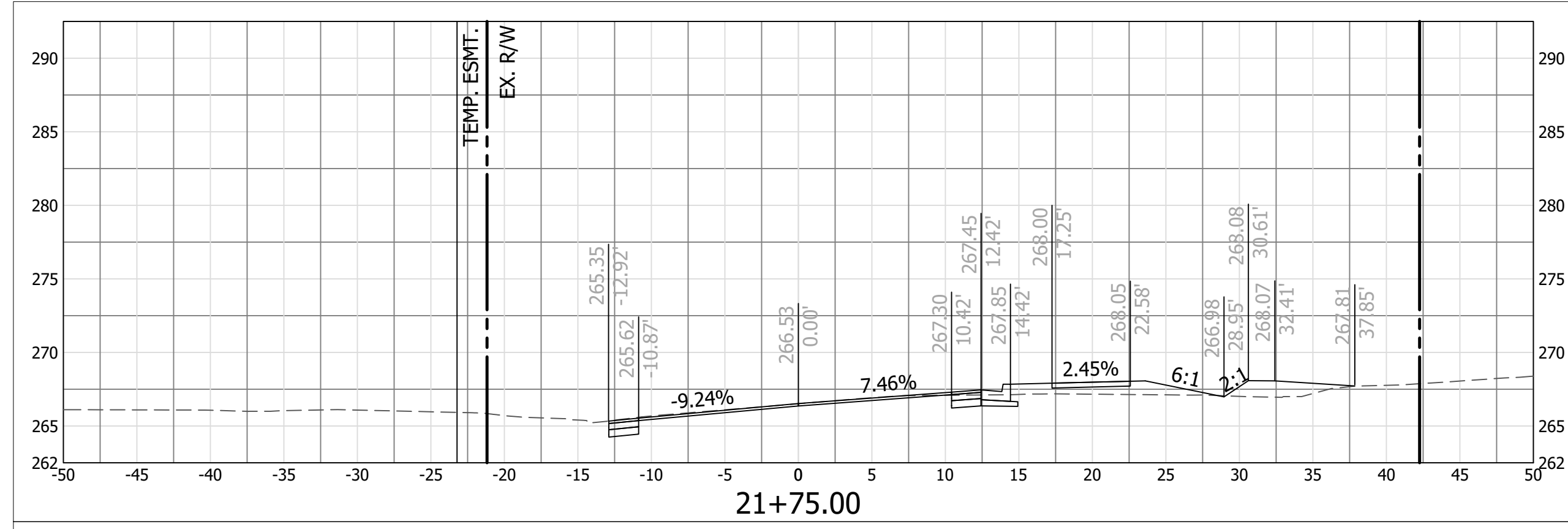
DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

SCALE:



12TH RD N CROSS SECTIONS



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 COMMONWEALTH OF VIRGINIA
 BHARAT BHARGAVA
 Lic. No. 20686
 12/7/2023
 PROFESSIONAL ENGINEER

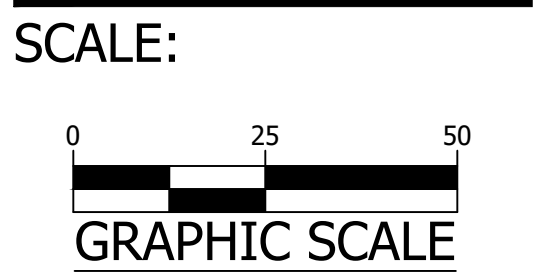
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
 12TH RD CROSS SECTIONS

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21 2023



N OHIO STREET CROSS SECTIONS



APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
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<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
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<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

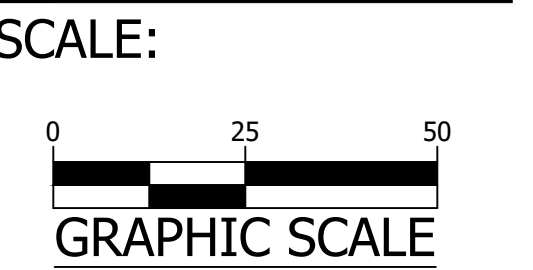
REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D48S

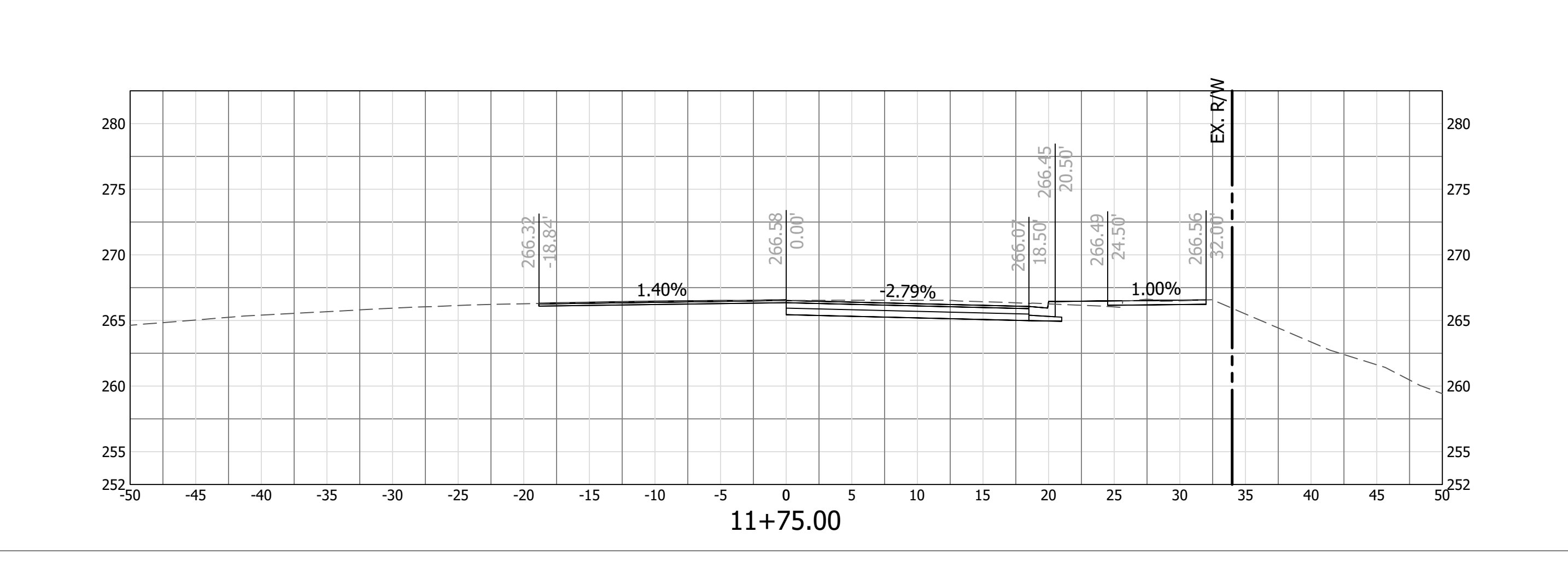
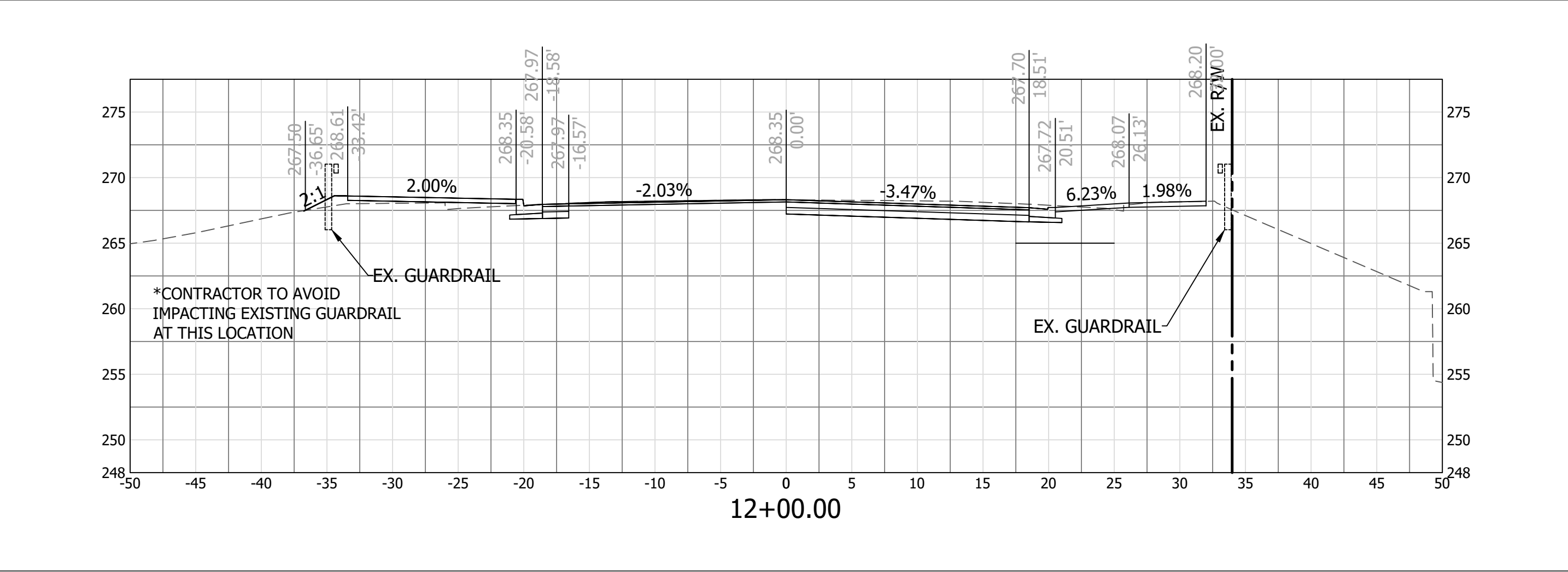
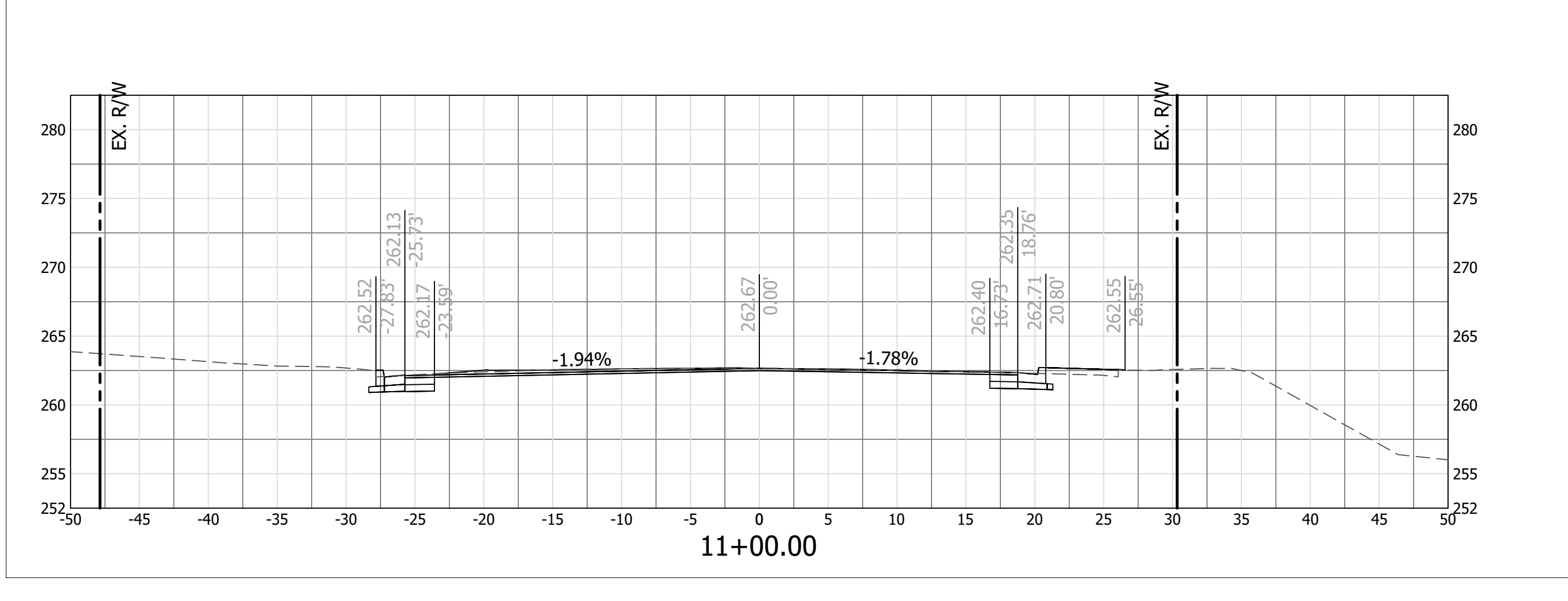
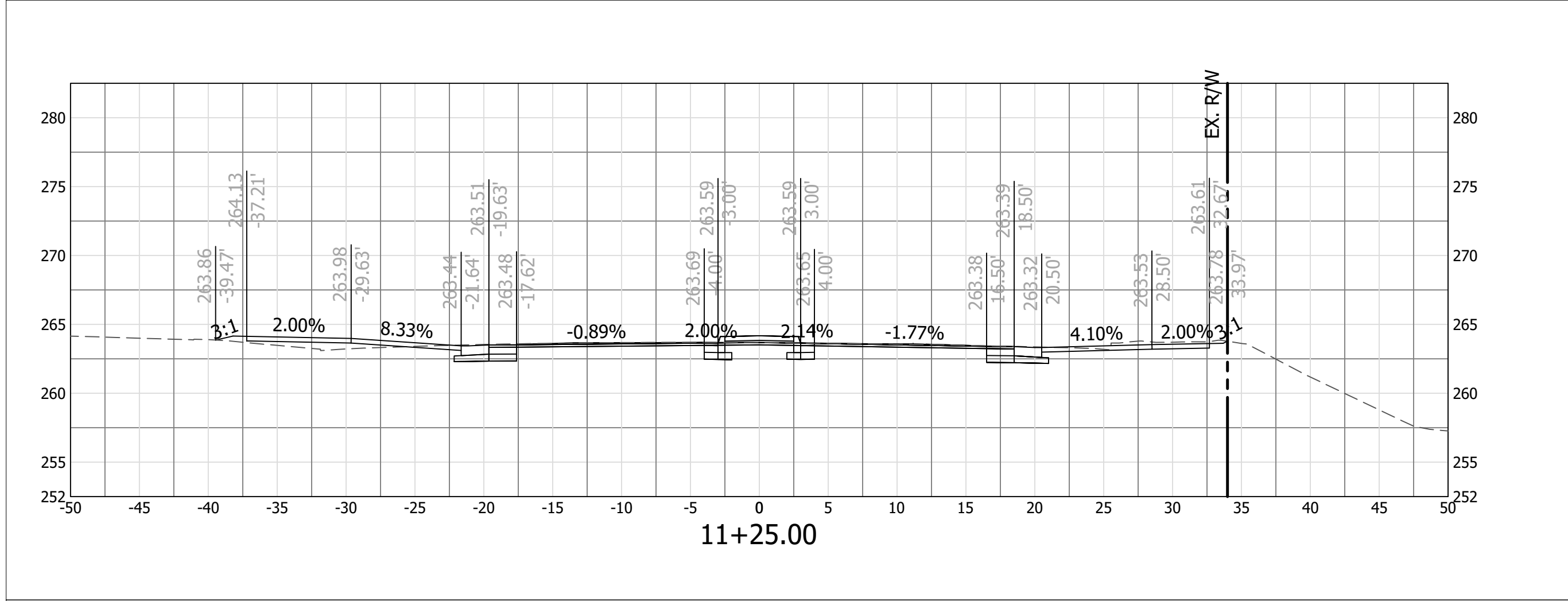
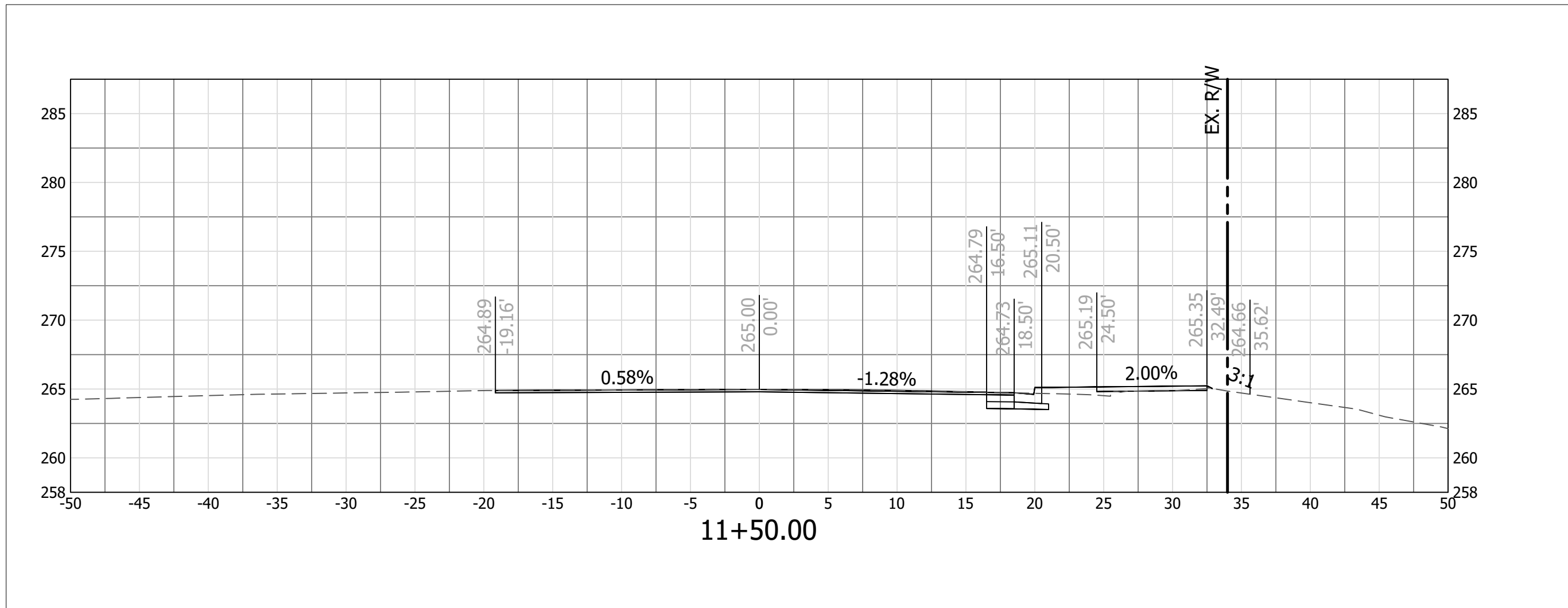
N OHIO ST CROSS SECTIONS

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

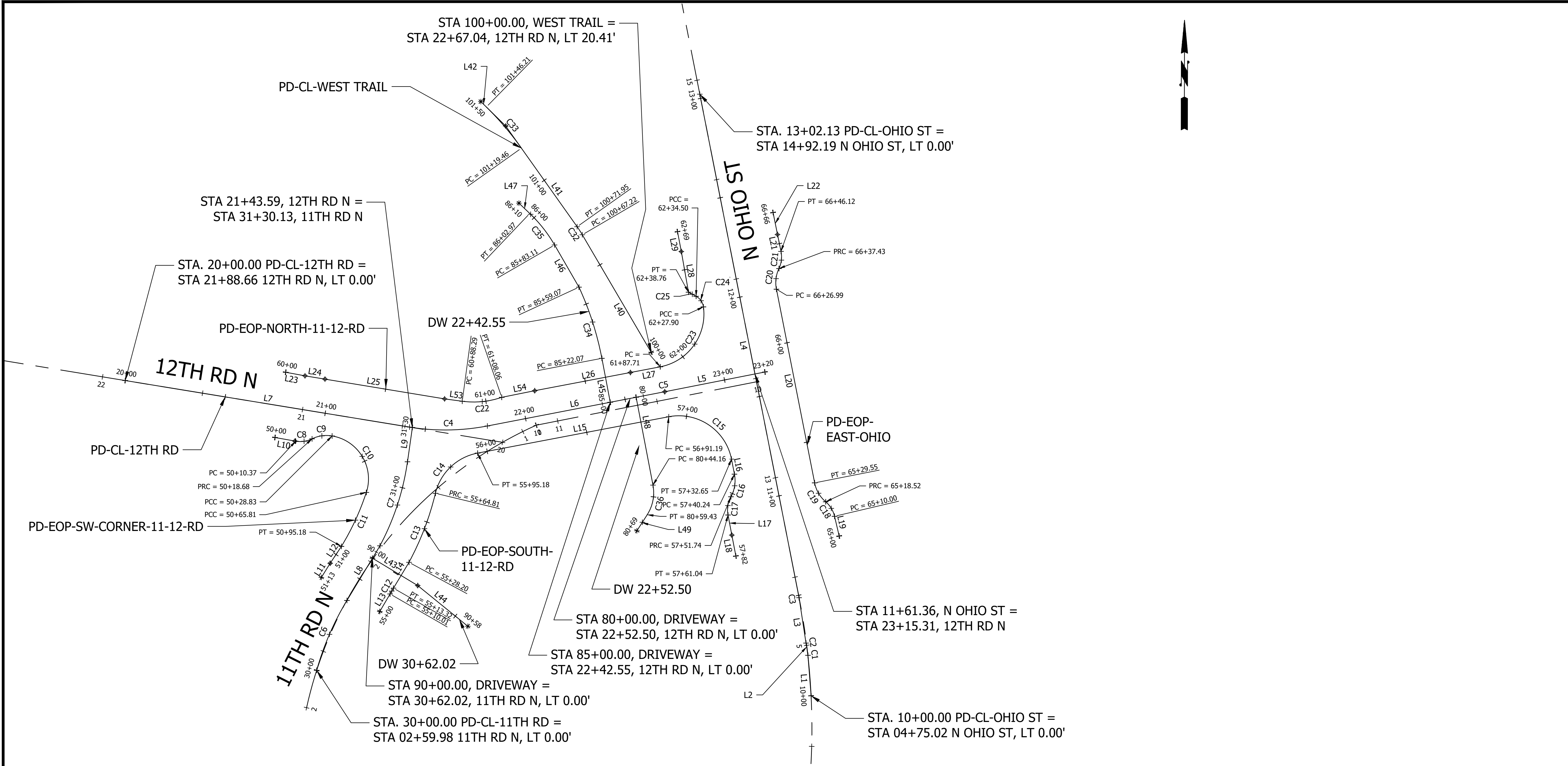


C044.3



REVISION ON 1/24/2022
 FILENAME: D48S-234-CROSS_SECTIONS-12TH_RD.DWG PATH: T:\117200 - MASTER-ARLINGTON COUNTY (CONT)\117203 - D48S - N OHIO ST AT 12TH RD N07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS SMITH

REVISED ON 1/24/2022
FILENAME: D485-216-GEOMETRIC CONTROL PLAN.DWG PATH: T:\1177200 - MASTER-ARLINGTON COUNTY (CONT)\1177203 - D485 - N OHIO ST AT 12TH RD N07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS.SMITH



ROADWAY ALIGNMENTS

PD-CL-OhioSt										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L1	17.583		N4° 27' 27.71"W			N4° 27' 28"W	10+00.00	10+17.58	7006689.2499, 11868406.3440	7006706.7799, 11868404.9773
C1	4.881	62.400	N6° 41' 55.13"W	4.88	4° 28' 55"	2.44	10+17.58	10+22.46	7006706.7799, 11868404.9773	7006711.6265, 11868404.4081
L2	3.522		N8° 56' 22.55"W			N8° 56' 23"W	10+22.46	10+25.99	7006711.6265, 11868404.4081	7006715.1061, 11868403.8608
C2	0.281	62.400	N8° 48' 38.32"W	0.28	0° 15' 28"	0.14	10+25.99	10+26.27	7006715.1061, 11868403.8608	7006715.3836, 11868403.8178
L3	21.170		N8° 40' 54.09"W			N8° 40' 54"W	10+26.27	10+47.44	7006715.3836, 11868403.8178	7006736.3114, 11868400.6222
C3	2.692	62.400	N9° 55' 02.86"W	2.69	2° 28' 18"	1.35	10+47.44	10+50.13	7006736.3114, 11868400.6222	7006738.9626, 11868400.1586
L4	251.999		N11° 09' 11.63"W			N11° 09' 12"W	10+50.13	13+02.13	7006738.9626, 11868400.1586	7006986.2027, 11868351.4135

PD-CL-11thRd										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
C6	37.680	140.000	N23° 24' 38.12"E	37.57	15° 25' 15"	18.95	30+00.00	30+37.68	7006701.8108, 11868162.3661	7006736.2846, 11868177.2918
L8	31.518		N31° 07' 15.39"E			N31° 07' 15"E	30+37.68	30+69.20	7006736.2846, 11868177.2918	7006763.2668, 11868193.5820
C7	43.839	125.000	N18° 09' 04.38"E	43.61	20° 05' 40"	22.15	30+69.20	31+13.04	7006763.2668, 11868193.5820	7006804.7112, 11868207.1691
L9	17.153		N8° 06' 14.49"E			N8° 06' 14"E	31+13.04	31+30.19	7006804.7112, 11868207.1691	7006821.6928, 11868209.5872

PD-CL-12thRd										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L7	142.187		S80° 42' 09.87"E			S80° 42' 10"E	20+00.00	21+42.19	7006844.8316, 11868067.8773	7006821.8604, 11868208.1966
C4	38.585	109.301	N89° 11' 02.65"E	38.38	20° 13' 35"	19.50	21+42.19	21+80.77	7006821.8604, 11868208.1966	7006822.4070, 11868246.5777
L6	88.776		N79° 04' 15.18"E			N79° 04' 15"E	21+80.77	22+69.55	7006822.4070, 11868246.5777	7006839.2384, 11868333.7434
C5	0.782	200.000	N78° 57' 31.78"E	0.78	0° 13' 27"	0.39	22+69.55	22+70.33	7006839.2384, 11868333.7434	7006839.3882, 11868334.5112
L5	49.982		N78° 50' 48.37"E			N78° 50' 48"E	22+70.33	23+20.31	7006839.3882, 11868334.5112	7006849.0564, 11868383.5491

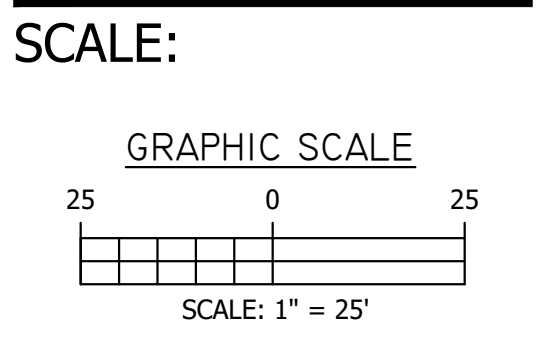


APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
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WATER, SEWER, STREETS BUREAU CHIEF	
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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D485
GEOMETRIC CONTROL PLAN

DESIGNED: BB
DRAWN: MS
CHECKED: BG
PLOTTED: DECEMBER 21, 2023



EOP ALIGNMENTS

PD-EOP-SW-corner-11-12-Rd										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L10	10.000		S79° 54' 40.58"E			S79° 54' 41"E	50+00.00	50+10.00	7006816.7185, 11868141.7814	7006814.9668, 11868151.6268
C8	8.305	13.500	N81° 54' 24.57"E	8.17	35° 14' 51"	4.29	50+10.37	50+18.68	7006814.9052, 11868151.9934	7006816.0561, 11868160.0867
C9	10.154	16.500	N81° 54' 48.31"E	9.99	35° 15' 38"	5.24	50+18.68	50+28.83	7006816.0561, 11868160.0867	7006817.4621, 11868169.9821
C10	36.978	21.500	S31° 11' 06.38"E	32.59	98° 32' 32"	24.97	50+28.83	50+65.81	7006817.4621, 11868169.9821	7006789.5851, 11868186.8551
C11	29.373	125.742	S24° 46' 42.62"W	29.31	13° 23' 03"	14.75	50+65.81	50+95.18	7006789.5851, 11868186.8551	7006762.9772, 11868174.5727
L12	10.000		S33° 39' 28.30"W			S33° 39' 28"W	50+95.18	51+05.18	7006762.9772, 11868174.5727	7006754.6535, 11868169.0303
L11	8.248		S31° 55' 45.03"W			S31° 55' 45"W	51+05.18	51+13.43	7006754.6535, 11868169.0303	7006747.6536, 11868164.6683

PD-EOP-South-11-12-Rd										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L13	10.007		N30° 27' 54.03"E			N30° 27' 54"E	55+00.00	55+10.01	7006730.8521, 11868193.5047	7006739.4776, 11868198.5784
C12	3.310	703.303	N29° 51' 48.03"E	3.31	0° 16' 11"	1.65	55+10.01	55+13.32	7006739.4776, 11868198.5784	7006742.3478, 11868200.2263
L14	14.882		N31° 07' 15.39"E			N31° 07' 15"E	55+13.32	55+28.20	7006742.3478, 11868200.2263	7006755.0880, 11868207.9181
C13	36.611	141.500	N20° 57' 42.68"E	36.51	14° 49' 28"	18.41	55+28.20	55+64.81	7006755.0880, 11868207.9181	7006789.1810, 11868220.9791
C14	30.373	26.500	N46° 23' 03.14"E	28.74	65° 40' 09"	17.10	55+64.81	55+95.18	7006789.1810, 11868220.9791	7006809.0046, 11868241.7845
L15	96.009		N79° 13' 07.76"E			N79° 13' 08"E	55+95.18	56+91.19	7006809.0046, 11868241.7845	7006826.9639, 11868336.0984
C15	41.454	26.500	S55° 58' 01.94"E	37.35	89° 37' 41"	26.33	56+91.19	57+32.65	7006826.9639, 11868336.0984	7006806.0576, 11868367.0550
L16	7.590		S11° 09' 11.63"E			S11° 09' 12"E	57+32.65	57+40.24	7006806.0576, 11868367.0550	7006798.6109, 11868368.5232
C16	11.503	16.500	S8° 49' 08.48"W	11.27	39° 56' 40"	6.00	57+40.24	57+51.74	7006798.6109, 11868368.5232	7006787.4725, 11868366.7951
C17	9.299	13.500	S9° 03' 30.39"W	9.12	39° 27' 56"	4.84	57+51.74	57+61.04	7006787.4725, 11868366.7951	7006778.4701, 11868365.3598
L17	10.113		S10° 40' 37.43"E			S10° 40' 37"E	57+61.04	57+71.15	7006778.4701, 11868365.3598	7006768.5323, 11868367.2335
L18	10.501		S10° 57' 15.48"E			S10° 57' 15"E	57+71.15	57+81.65	7006768.5323, 11868367.2335	7006758.2222, 11868369.2290

PD-EOP-North-11-12-Rd										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L23	9.681		S79° 27' 52.09"E			S79° 27' 52"E	60+00.00	60+09.68	7006848.9261, 11868147.0824	7006847.1560, 11868156.5999
L24	10.000		S80° 39' 13.34"E			S80° 39' 13"E	60+09.68	60+19.68	7006847.1560, 11868156.5999	7006845.5320, 11868166.4672
L25	59.810		S80° 37' 27.66"E			S80° 37' 28"E	60+19.68	60+79.49	7006845.5320, 11868166.4672	7006835.7886, 11868225.4780
L53	8.803		S82° 17' 47.07"E			S82° 17' 47"E	60+79.49	60+88.29	7006835.7886, 11868225.4780	7006834.6085, 11868234.2015
C22	19.762	42.346	N84° 20' 02.43"E	19.58	26° 44' 21"	10.06	60+88.29	61+08.06	7006834.6085, 11868234.2015	7006836.5420, 11868253.6892
L54	16.598		N78° 36' 45.57"E			N78° 36' 46"E	61+08.06	61+24.65	7006836.5420, 11868253.6892	7006839.8191, 11868269.9606
L26	48.059		N79° 13' 07.76"E			N79° 13' 08"E	61+24.65	61+72.71	7006839.8191, 11868269.9606	7006848.8090, 11868317.1716
L27	15.000		N79° 13' 07.76"E			N79° 13' 08"E	61+72.71	61+87.71	7006848.8090, 11868317.1716	7006851.6149, 11868331.9068
C23	40.191	26.500	N35° 46' 13.01"E	36.45	86° 53' 49"	25.10	61+87.71	62+27.90	7006851.6149, 11868331.9068	7006881.1878, 11868353.2121
C24	6.599	7.000	N34° 41' 07.23"W	6.36	54° 00' 51"	3.57	62+27.90	62+34.50	7006881.1878, 11868353.2121	7006886.4155, 11868349.5943
C25	4.262	251.053	N61° 41' 32.73"W	4.26	0° 58' 21"	2.13	62+34.50	62+38.76	7006886.4155, 11868349.5943	7006888.4363, 11868345.8424
L28	20.387		N9° 59' 19.84"W			N9° 59' 20"W	62+38.76	62+59.15	7006888.4363, 11868345.8424	7006908.5138, 11868342.3062
L29	10.000		N10° 56' 26.22"W			N10° 56' 26"W	62+59.15	62+69.15	7006908.5138, 11868342.3062	7006918.3321, 11868340.4083

PD-EOP-East-Ohio										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L19	9.996		N13° 13' 54.68"W			N13° 13' 55"W	65+00.00	65+10.00	7006768.0888, 11868420.2052	7006777.8199, 11868417.9171
C18	8.528	13.500	N31° 19' 46.10"W	8.39	36° 11' 43"	4.41	65+10.00	65+18.52	7006777.8199, 11868417.9171	7006784.9841, 11868413.5561
C19	11.022	16.500	N30° 17' 24.57"W	10.82	38° 16' 26"	5.73	65+18.52	65+29.55	7006784.9841, 11868413.5561	7006794.3255, 11868408.0996
L20	97.445		N11° 09' 11.63"W			N11° 09' 12"W	65+29.55	66+26.99	7006794.3255, 11868408.0996	7006889.9302, 11868389.2504
C20	10.441	16.500	N6° 58' 28.58"E	10.27	36° 15' 20"	5.40	66+26.99	66+37.43	7006889.9302, 11868389.2504	7006900.1218, 11868390.4972
C21	8.683	13.500	N6° 40' 38.60"E	8.53	36° 51' 00"	4.50	66+37.43	66+46.12	7006900.1218, 11868390.4972	7006908.5976, 11868391.4895
L21	8.502		N11° 44' 51.61"W			N11° 44' 52"W	66+46.12	66+54.62	7006908.5976, 11868391.4895	7006916.9219, 11868389.7584
L22	11.071		N11° 19' 18.47"W			N11° 19' 18"W	66+54.62	66+65.69	7006916.9219, 11868389.7584	7006927.7775, 11868387.5849

TRAIL AND DRIVEWAY ALIGNMENTS

PD-CL-West Trail										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L40	67.217		N30° 21' 26.70"W			N30° 21' 27"W	100+00.00	100+67.22	7006858.7989, 11868327.4168	7006916.7997, 11868293.4459
C32	4.728	54.500	N32° 50' 34.48"W	4.73	4° 58' 16"	2.37	100+67.22	100+71.95	7006916.7997, 11868293.4459	7006920.7711, 11868290.8823
L41	47.516		N35° 19' 42.27"W			N35° 19' 42"W	100+71.95	101+19.46	7006920.7711, 11868290.8823	7006959.5368, 11868263.4058
C33	26.750	150.000	N40° 26' 13.98"W	26.71	10° 13' 03"	13.41	101+19.46	101+46.21	7006959.5368, 11868263.4058	7006979.8695, 11868246.0786
L42	3.790		N45° 32' 45.70"W			N45° 32' 46"W	101+46.21	101+50.00	7006979.8695, 11868246.0786	7006982.5240, 11868243.3730

DW 30+62.02										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L43	26.098		S58° 52' 13.56"E			S58° 52' 14"E	90+00.00	90+26.10	7006757.1262, 11868189.8747	7006743.6344, 11868212.2142
L44	31.883		S50° 55' 07.08"E			S50° 55' 07"E	90+26.10	90+57.98	7006743.6344, 11868212.2142	7006723.5349, 11868236.9630

DW 22+42.55										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L45	22.071		N10° 48' 00.45"W			N10° 48' 00"W	85+00.00	85+22.07	7006834.1193, 11868307.2330	7006855.7997, 11868303.0972
C34	36.995	151.502	N17° 49' 44.23"W	36.90	13° 59' 27"	18.59	85+22.07	85+59.07	7006855.7997, 11868303.0972	7006890.9302, 11868291.7984
L46	24.044		N30° 01' 47.15"W			N30° 01' 47"W	85+59.07	85+83.11	7006890.9302, 11868291.7984	7006911.7468, 11868279.7655
C35	19.860	69.500	N38° 12' 58.42"W	19.79	16° 22' 23"	10.00	85+83.11	86+02.97	7006911.7468, 11868279.7655	7006927.2978, 11868267.5210
L47	7.399		N46° 24' 09.69"W			N46° 24' 10"W	86+02.97	86+10.37	7006927.2978, 11868267.5210	7006932.3997, 11868262.1630

DW 22+52.50										
Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L48	44.165		S10° 51' 52.83"E			S10° 51' 53"E	80+00.00	80+44.16	7006836.5831, 11868319.9922	7006793.2101, 11868328.3168
C36	15.266	20.000	S11° 00' 06.61"W	14.90	43° 43' 59"	8.03	80+44.16	80+59.43	7006793.2101, 11868328.3168	7006778.5861, 11868325.4737
L49	9.409		S32° 52' 06.05"W			S32° 52' 06"W	80+59.43	80+68.84	7006778.5861, 11868325.4737	7006770.6837, 11868320.3676



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 Kyle Kling 12/18/2023
 PROJECT MANAGER

REVISIONS DATE

REVISIONS	DATE

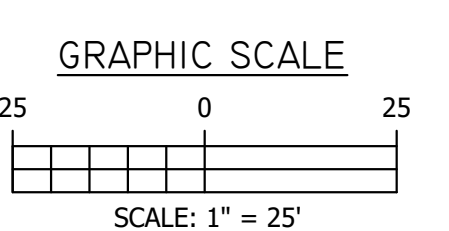
N OHIO ST AND 12TH RD N INTERSECTION
 D485

GEOMETRIC CONTROL PLAN

DESIGNED: BB
 DRAWN: MS
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

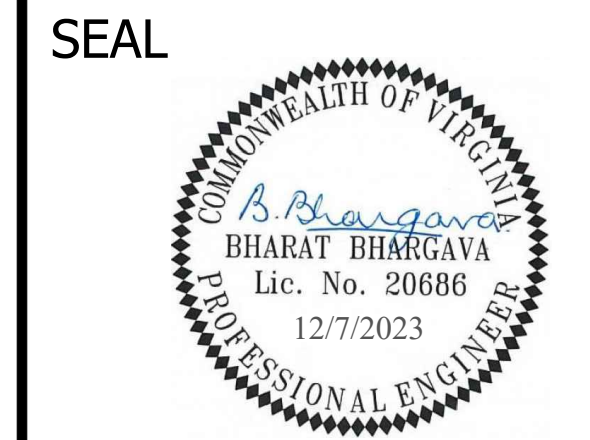
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MATCHLINE SHEET C071.2

MATCHLINE SHEET C071.3

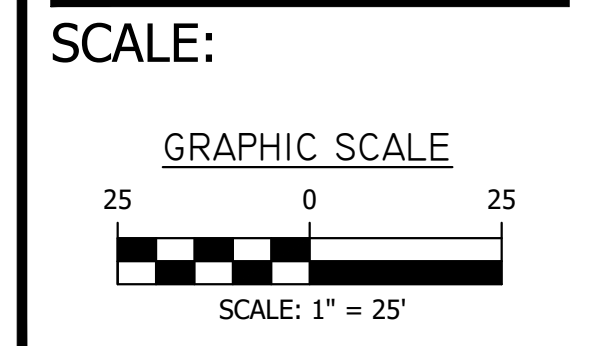


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N OHIO ST AND 12TH RD N INTERSECTION
 D485
 STORM SEWER DRAINAGE DIVIDES

DESIGNED: BB
 DRAWN: AB
 CHECKED: BG
 PLOTTED: DECEMBER 21, 2023



C071.1

REVISED ON 1/24/2022

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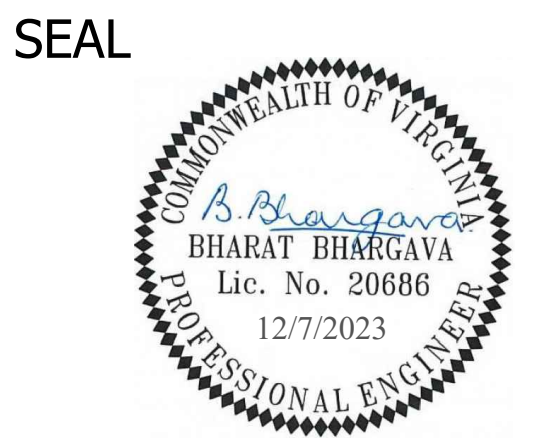
MATCHLINE SHEET C071.1

MATCHLINE SHEET C071.2



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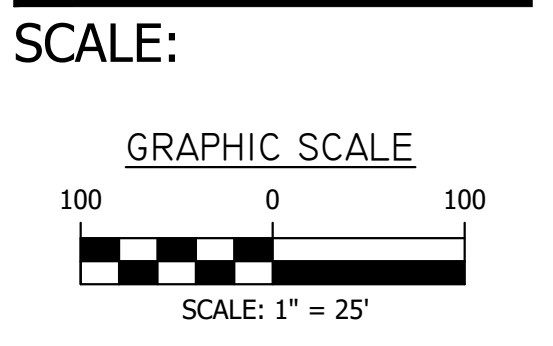


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N OHIO ST AND 12TH RD N INTERSECTION
 D485
 STORM SEWER DRAINAGE DIVIDES

DESIGNED: BB
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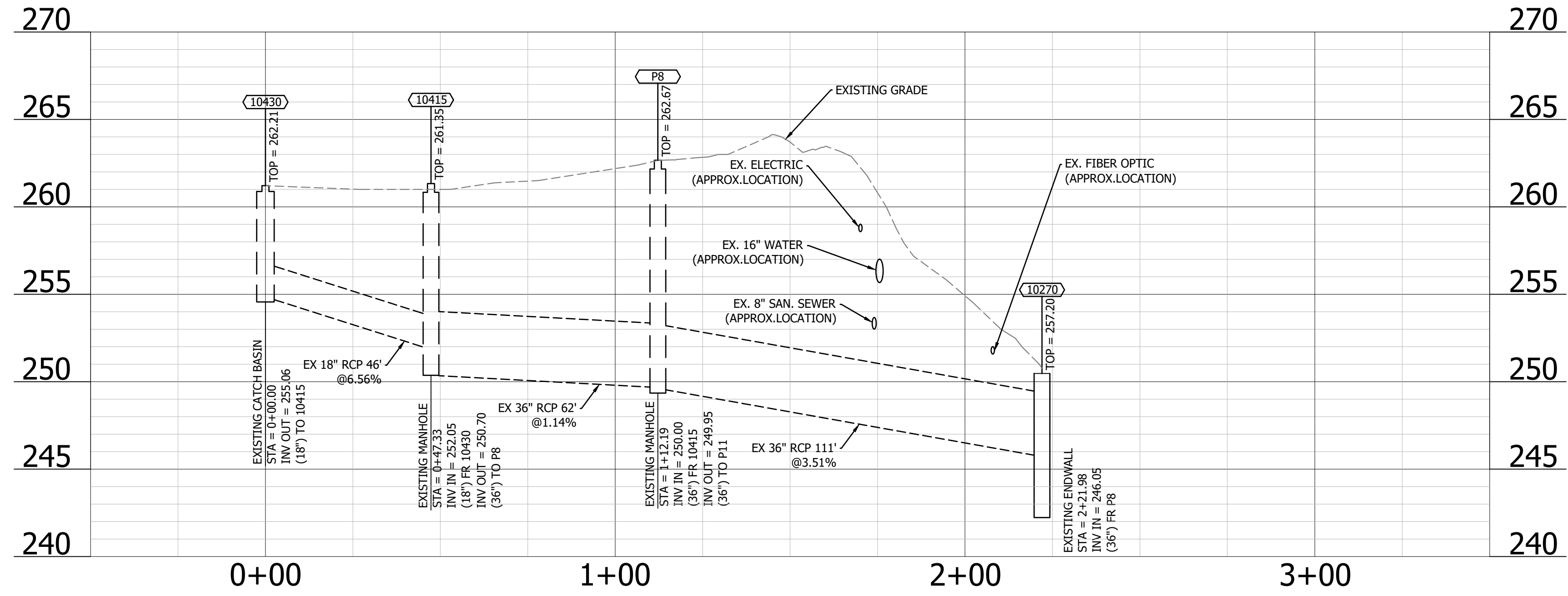


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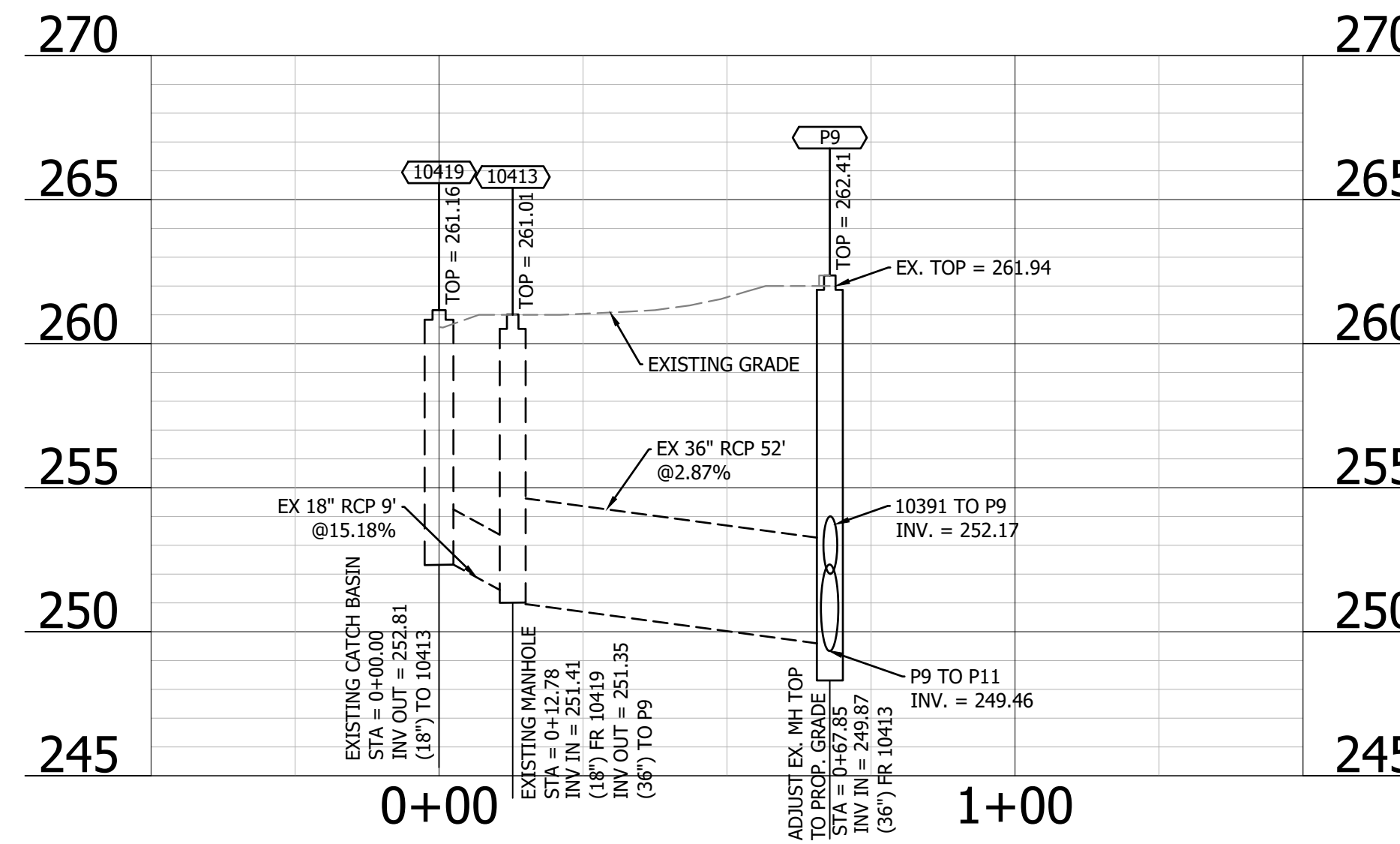
DRAINAGE DESCRIPTIONS

- P1 Convert Catch Basin to Manhole
1 St'd. MH-1 Per Arl. St'd. (D-3.0)
Top = 268.34' Inv. = 251.54'
- P2 1 St'd. CB-2 Per Arl. St'd. (D-1.2)
H = 4.34', Top = 269.84' Inv. = 265.50'
- P2 P1 18" - 15" RCP Class III Pipe Req'd. (2' Cover)
Inv. In = 265.50' Inv. Out = 264.70'
- P5 Convert Catch Basin to Manhole
1 St'd. MH-1 Per Arl. St'd. (D-3.0)
Top = 264.27' Inv. = 256.59'
- P6 1 St'd. CB-2A Per Arl. St'd. (D-1.3)
H = 7.61', Top = 264.11' Inv. = 256.50'
- P9 Adjust Ex. Storm Drain Manhole to Proposed Grade
Top = 262.41' Inv. = 249.46'

10430 TO 10270



10419 TO P9



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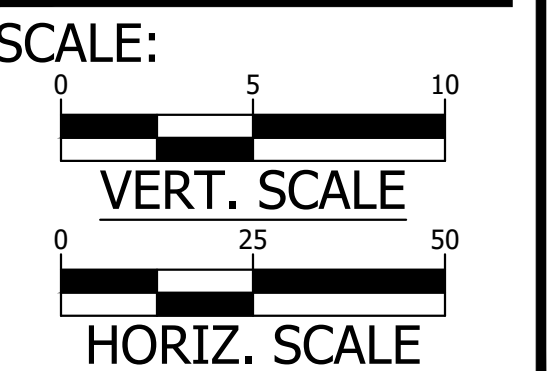
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N OHIO ST AND 12TH RD N INTERSECTION

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STORM SEWER PROFILES

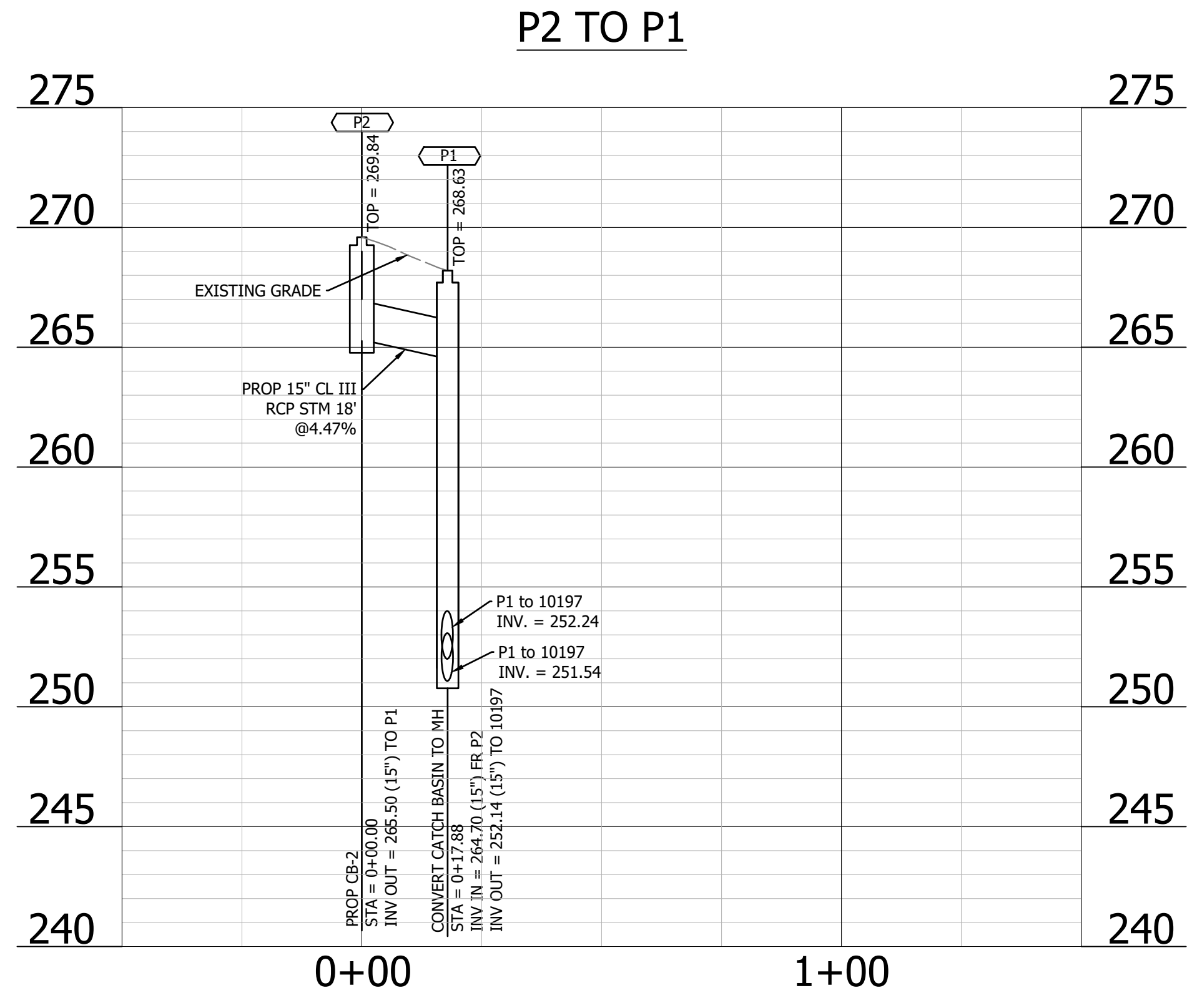
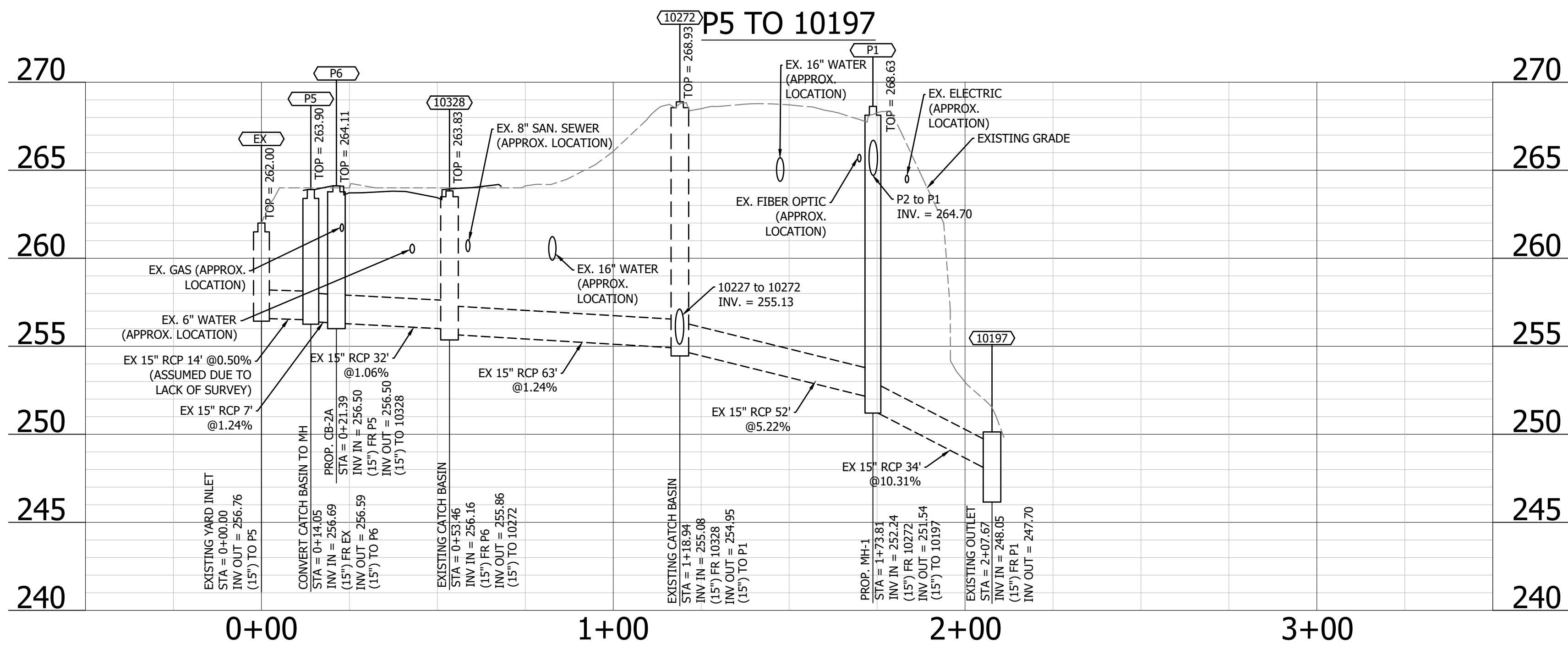
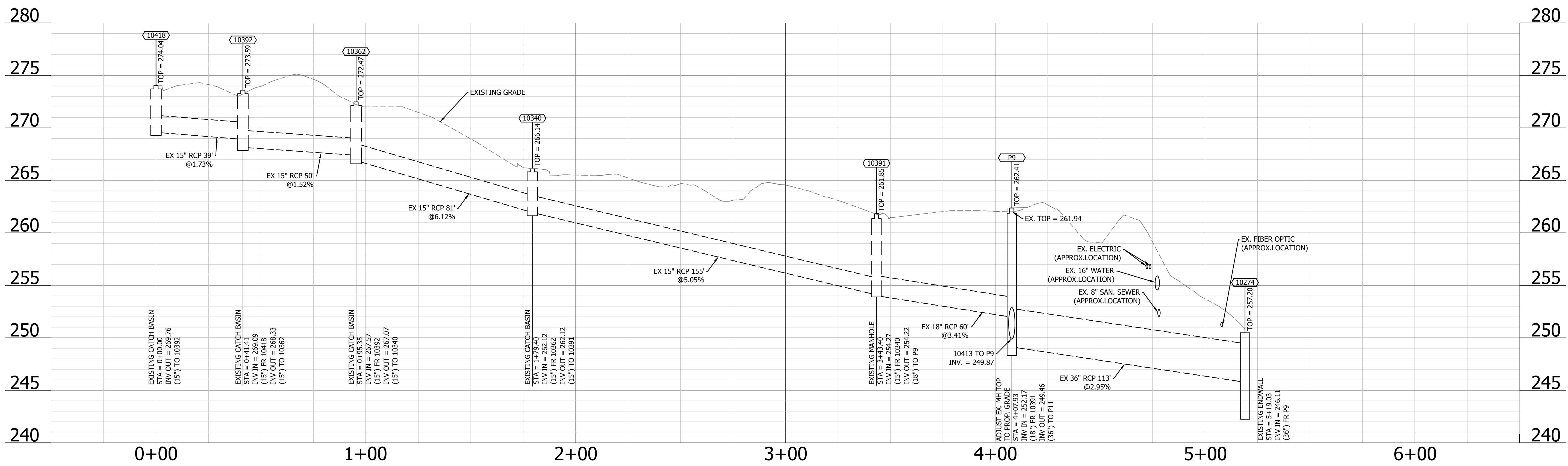
DESIGNED: BB
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 PLOTTED: DECEMBER 21, 2023



C073.1

FILENAME: D485-252-STORM SEWER PROFILES-12TH_RD.DWG PATH: T:\1177200 - MASTER-ARLINGTON COUNTY (CONT)\1177203 - D485 - N OHIO ST AT 12TH RD N\07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS, SMITH
 REVISED ON: 1/24/2022

10418 TO 10274



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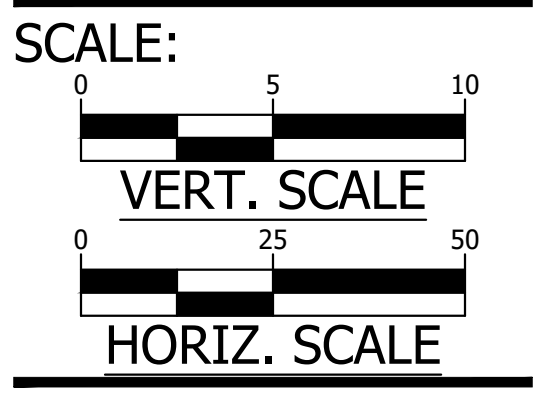
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
STORM SEWER PROFILES

DESIGNED: BB
 DRAWN: AB
 CHECKED: BG

PLOTTED: DECEMBER 21, 2023

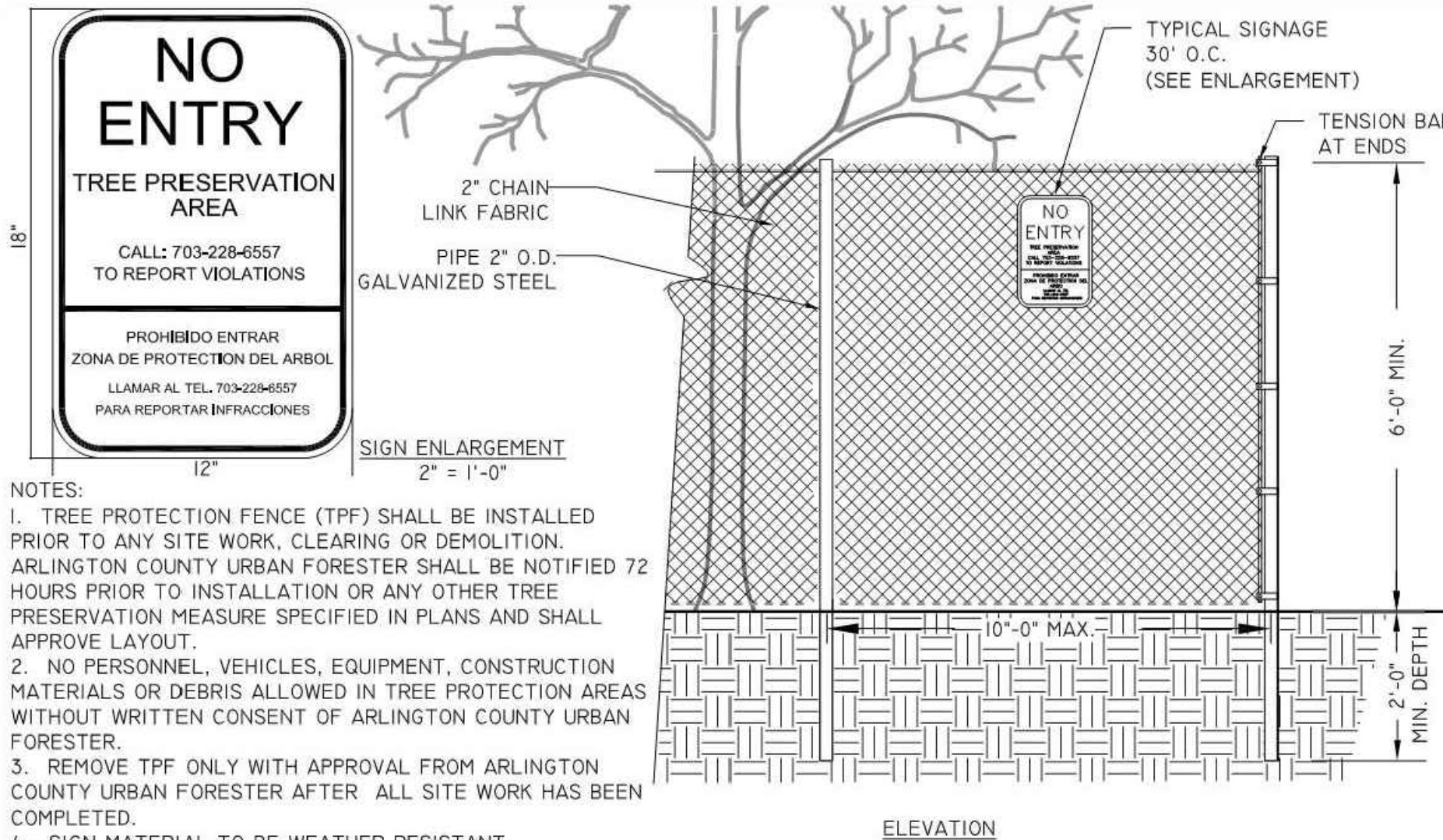


C073.2

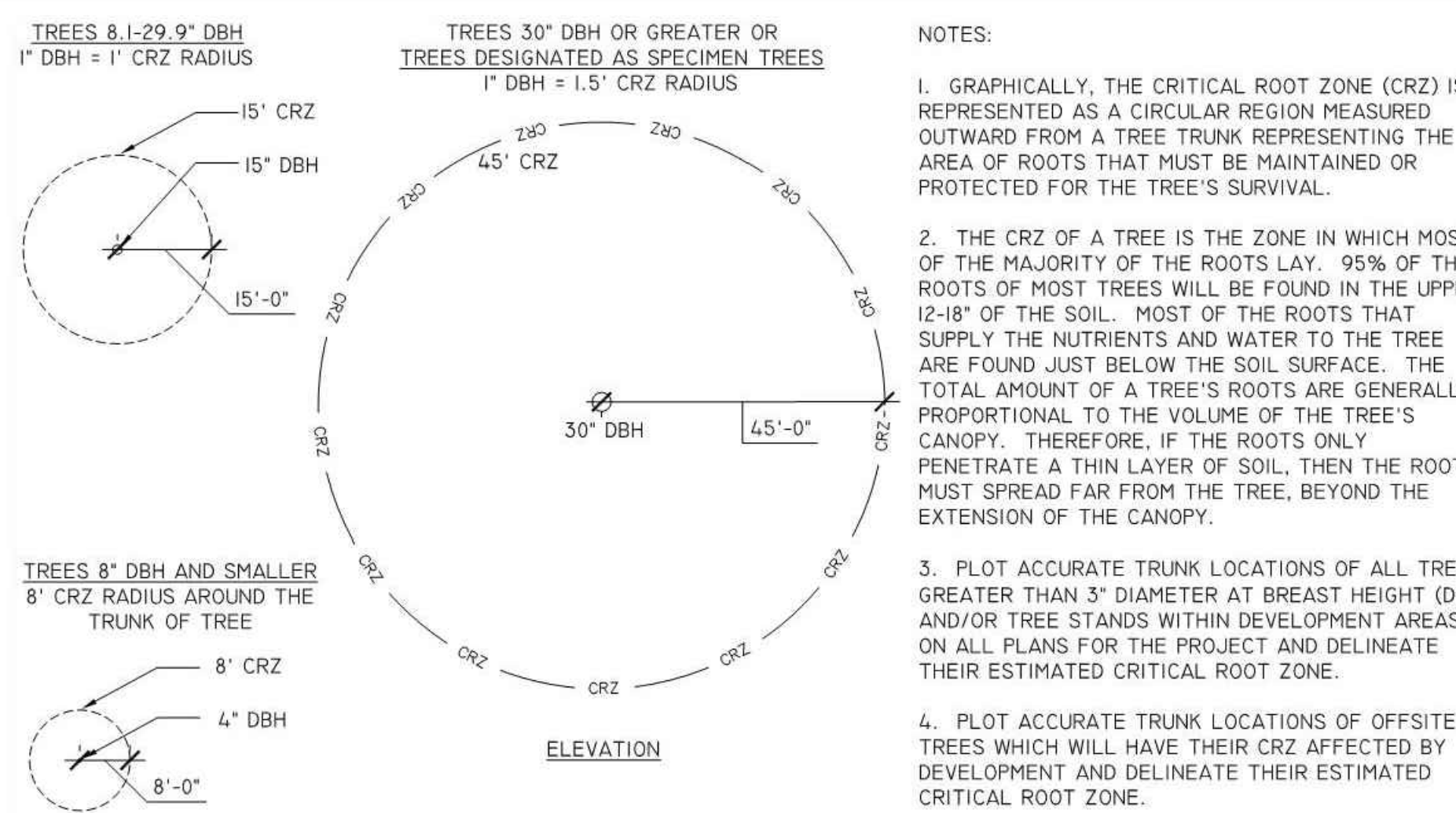
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TREE PROTECTION NOTES

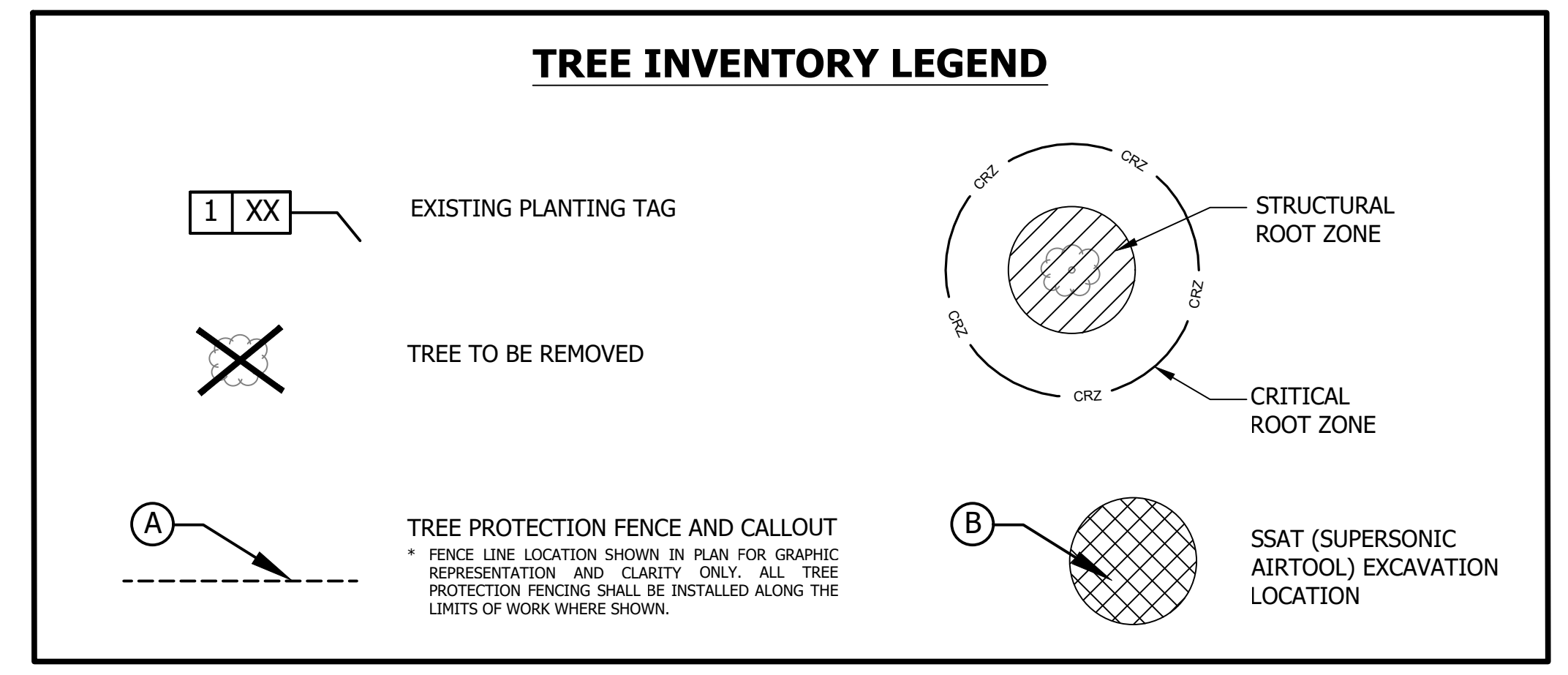
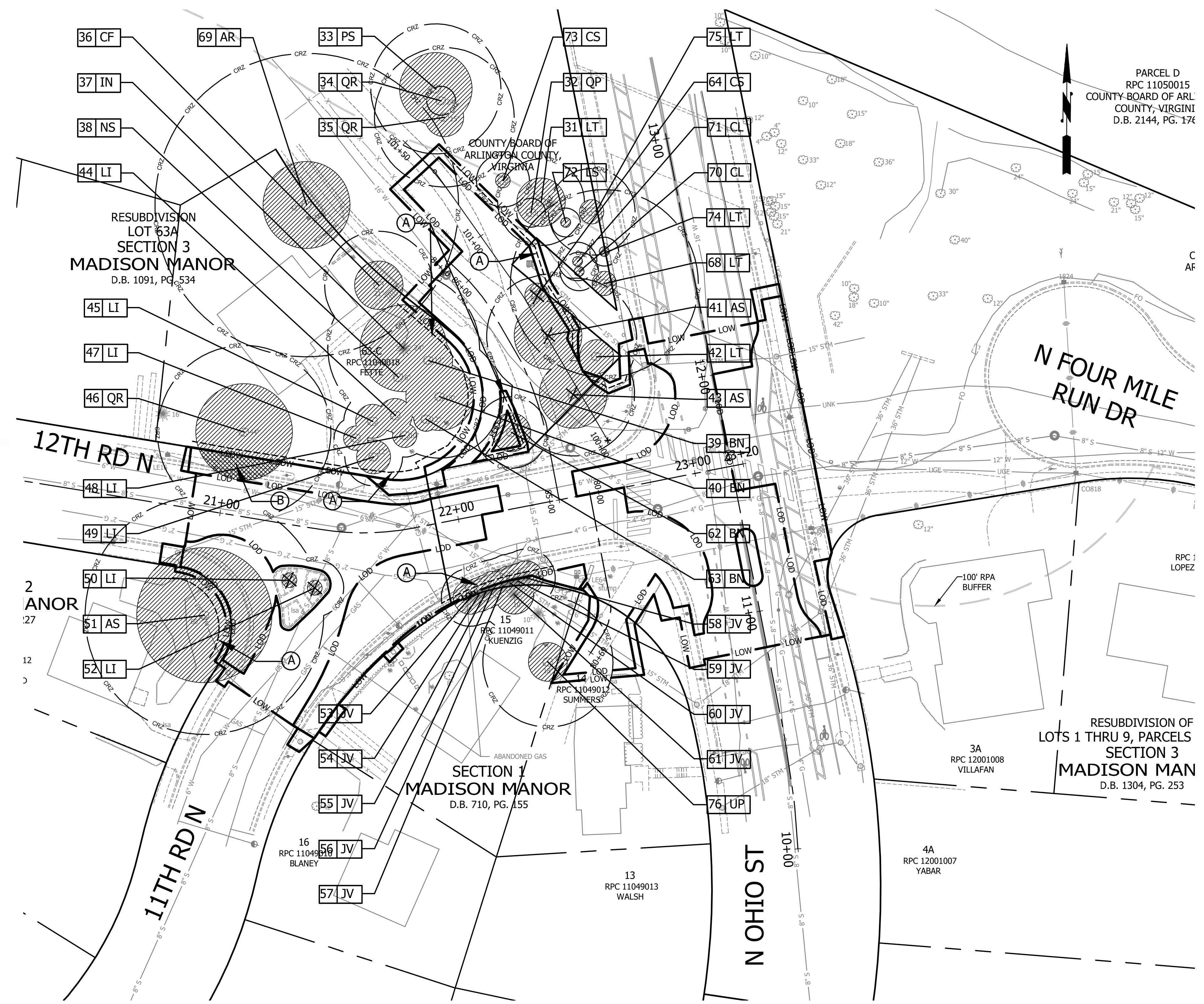
- TREE PROTECTION FENCING SHALL BE ERECTED AT THE CRITICAL ROOT ZONE OR BEYOND PRIOR TO START OF ANY CLEARING, GRADING OR OTHER CONSTRUCTION ACTIVITY. CONTRACTOR SHALL WALK THE SITE WITH THE COUNTY URBAN FORESTRY TO DETERMINE EXACT LOCATION OF TREE PROTECTION FENCING TO PRIOR EXCAVATION. CONTRACTOR SHALL FLAG THE LOCATION OF THE PROPOSED TRAIL FOOTPRINT TO HELP DETERMINE DISTURBANCE IN THE FIELD. SIGNS STATING "NO ENTRY, TREE PROTECTION AREA" ARE TO BE POSTED IN BOTH ENGLISH AND SPANISH.
- TREE PROTECTION SHALL BE A MINIMUM OF 6 FOOT HIGH CHAIN LINK FENCE MOUNTED ON VERTICAL PIPES DRIVEN 2 FT. INTO THE GROUND WITH NO GATES. SEE THE 6 FT. CHAIN LINK TREE PROTECTION FENCE DETAIL (311300.1).
- SUBMIT PHOTOGRAPHIC RECORD TO THE ASSIGNED URBAN FORESTER TO SHOW PROPER INSTALLATION OF STRUCTURAL SUPPORT FOR UNCOMPACTED SOILS, SUCH AS CONTINUOUS SOIL PANELS, STRUCTURAL CELLS, OR STRUCTURAL SOIL PRIOR TO TREE PLANTING.
- NO PERSON, MATERIALS OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION AREA. ANY VIOLATION OF THIS REQUIREMENT MAY RESULT IN A FINE OF \$500 PER DAY.
- ANY DAMAGE TO A TREE BEING PRESERVED SHALL RESULT IN A PAYMENT BY THE OWNER/DEVELOPER TO THE COUNTY FOR THE AMOUNT OF DAMAGE BASED ON THE LATEST EDITION OF "THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS GUIDE FOR PLANT APPRAISALS" PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). ALL TREES ARE TO BE VALUED AS LANDSCAPE TREES. FOR FURTHER GUIDANCE, SEE ARLINGTON COUNTY TREE APPRAISAL POLICY, ADOPTED BY THE COUNTY BOARD IN OCTOBER 2004.
- TREE PROTECTION SHALL NOT BE REMOVED UNTIL COMPLETION OF ALL CONSTRUCTION ACTIVITY.
- WHEN EXCAVATION IS TO TAKE PLACE WITHIN THE CRITICAL ROOT ZONE, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL ARBORIST TO ROOT PRUNE IMMEDIATELY BEYOND THE LIMITS OF EXCAVATION TO A DEPTH OF 18 IN., PRIOR TO EXCAVATION.
- USE A SSAT (SUPERSONIC AIRTOOL) FOR EXCAVATION FOR WORK WITHIN A TREE CRZ WHERE SPECIFIED IN THE DRAWINGS, IN ORDER TO MINIMIZE DAMAGE TO TREE ROOTS. ALL WORK TO BE PERFORMED BY A QUALIFIED ARBORIST CREW EXPERIENCED IN ROOT EXCAVATION. COORDINATE DATE OF WORK WITH THE COUNTY URBAN FORESTER AND ASSESS ROOTS TO BE PRUNED JOINTLY. THIS WORK WILL BE DONE IN THE SEQUENCE REQUIRED BY THE PROJECT, AND WITH PROTECTIONS FOR PEOPLE AND PROPERTY. THIS WORK MUST BE PERFORMED WHEN SOIL IS AT 50% OF FIELD CAPACITY. PROVIDE SUPPLEMENTAL MOISTURE IF NECESSARY. COVER EXPOSED ROOTS WITH PLASTIC DURING CONSTRUCTION. SUPPLEMENTAL WATERING POST-CONSTRUCTION IS RECOMMENDED WHEN FEASIBLE.
- CONTRACTOR SHALL CONTACT ARLINGTON COUNTY FORESTER TO SCHEDULE A PRE-CONSTRUCTION INSPECTION OF TREE PROTECTION MEASURES BEFORE ANY WORK NEAR THE CRITICAL ROOT ZONES OF TREES. TO SCHEDULE THE PRE-CONSTRUCTION MEETING CALL 703-228-7980



1 6' CHAIN LINK TREE PROTECTION FENCE
 C092.1 311300.1 (2016) (02231.1) 1/2" = 1'-0"
 ARLINGTON DPR



2 TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE
 C092.1 311300.3 (2016) (02231.3) N.T.S.
 ARLINGTON DPR



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 COMMONWEALTH OF VIRGINIA
 OLIVER BOEHM
 No. 1168
 12/7/2023
 LANDSCAPE ARCHITECT

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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
 EXISTING TREE INVENTORY PLAN

DESIGNED: WA
 DRAWN: DB
 CHECKED: OB
 PLOTTED: DECEMBER 29 2023
SCALE:
 0 25 50
GRAPHIC SCALE

EXISTING TREE INVENTORY AND TREE REPLACEMENT REQUIREMENTS

Table with columns: Tree #, Preserve or Remove, DBH, Key, Common Name, Botanical Name, Condition Rating %, Condition Rating, Dead Tree (Y/N), Number of Stems, SCRZ, CRZ, Priority (1-4), Species Rating, Replacement Value, Replacements, Located Within Resource Protection Area?, CRZ % Disturbance, Additional Notes, Condition Notes. Includes rows 1-76 and a summary row for total replacement trees required.

TOTAL REPLACEMENT TREES REQUIRED: 12

* Trees fully disturbed



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APPROVALS DATE

Approval signatures and dates for Design Team Engineer Supervisor, Construction Management Supervisor, Water, Sewer, Streets Bureau Chief, and Engineering Bureau Chief.

REVISIONS DATE

Table for revisions with columns for revision number and date.

N OHIO ST AND 12TH RD N INTERSECTION D48S

EXISTING TREE INVENTORY

DESIGNED: WA DRAWN: DB CHECKED: OB

PLOTTED: DECEMBER 21, 2023

SCALE:

N/A

PLANTING NOTES

- TREES SHALL BE NURSERY GROWN SPECIMENS THAT MEET THE LATEST EDITION OF THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60). BALLED AND BURLAPPED TREES SHALL BE SECURELY HELD IN PLACE BY UNTREATED BURLAP AND STOUT ROPE (NYLON ROPE IS NOT ACCEPTABLE). LOOSE, BROKEN OR MANUFACTURED BALLS ARE UNACCEPTABLE.
- CALL MISS UTILITY AT (800) 552-7001 FOR UTILITY LOCATIONS PRIOR TO EXCAVATION.
- AT TIME OF PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
- TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.
- MULCH SHALL BE CLEAN, SCREENED, DOUBLE-HAMMERED HARDWOOD BARK MULCH, UNIFORM IN SIZE AND FREE OF STONES, CLOUDS, NON-ORGANIC DEBRIS AND OTHER FOREIGN MATERIAL.
- ALL PLANTS SHALL BE WATERED : ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION. EACH WATERING WILL CONSIST OF 20 GALLONS PER TREE. CONTINUE WATERING 1 INCH PER WEEK FOR EVERY TREE UNLESS WEATHER CONDITIONS PROVIDE SIMILAR WATERING RATE.
- CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.
- THE CONTRACTOR MUST CONTACT THE URBAN FORESTER OR THEIR REPRESENTATIVE AT LEAST 72 HOURS IN ADVANCE TO ARRANGE A MUTUALLY AGREEABLE TIME FOR INSPECTION OF TREES AND PITS. THE COUNTY RESERVES THE RIGHT TO REJECT ANY TREES FOUND UNACCEPTABLE BY THE URBAN FORESTER OR THEIR REPRESENTATIVE.
- ALL AREAS TO RECEIVE PLANTINGS OR GRASS SEEDING SHALL CONFORM WITH ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. THIS SHALL INCLUDE PREPARING THE SOIL TO REMAIN AND PROVIDING NEW SOIL FOR THE HEALTHY GROWTH OF PLANTINGS AND LAWNS, WHICH SHALL INCLUDE (BUT IS NOT LIMITED TO) THE FOLLOWING:
 - PRIOR TO USE FOR LAWN AREAS OR IN PLANTING SOIL MIX, CONTRACTOR SHALL REMOVE ALL STONES, ROOTS, PLANTS, SOD, CLOUDS, AND CLAY LUMPS LARGER THAN 1/2 INCH IN ANY DIRECTION, POCKETS OF COARSE SAND, CONCRETE SLURRY, CONCRETE LAYERS OR CHUNKS, CEMENT, PLASTER, BUILDING DEBRIS AND OTHER EXTRANEEOUS MATERIALS THAT ARE HARMFUL TO PLANT GROWTH.
 - AFTER REMOVAL OF DEBRIS AND EXTRANEEOUS MATERIALS NOTED ABOVE, THE CONTRACTOR SHALL OBTAIN SOIL TESTS FOR THE EXISTING SOIL PER THE REQUIREMENTS IN SECTION 1.04 "QUALITY ASSURANCE."

9. (CONTINUED)

- CONTRACTOR SHALL SUBMIT SOIL TEST RESULTS TO THE PROJECT OFFICER FOR APPROVAL WITH CONFIRMATION BY THE LANDSCAPE ARCHITECT OR URBAN FORESTER.
- CONTRACTOR SHALL SUPPLEMENT THE EXISTING SOIL AS RECOMMENDED IN SOIL TEST RESULTS TO ACHIEVE A VIABLE PLANTING SOIL FOR LAWNS AND/OR PLANTING BEDS. CONTRACTOR SHALL SUPPLEMENT WITH IMPORTED TOPSOIL PER THE SPECIFICATIONS FROM OFF-SITE SOURCES WHEN QUANTITIES OF APPROVED, EXISTING TOPSOIL ARE INSUFFICIENT FOR LAWNS AND PLANTING BEDS.
- CONTRACTOR SHALL SUBMIT A SAMPLE OF THE TOPSOIL THAT HAS BEEN AMENDED BASED ON SOIL TEST RESULTS FOR APPROVAL BY THE PROJECT OFFICER WITH CONFIRMATION BY LANDSCAPE ARCHITECT OR URBAN FORESTER PRIOR TO USE IN LAWN AREAS OR PLANTING BEDS OR PITS.
- TOPSOIL INSTALLED ON GRADE SHALL ATTEMPT TO MATCH EXISTING SOIL TEXTURE, EXCEPT FOR SITUATIONS WHERE CLAY SUBSOIL EXISTS. IN THE EVENT THAT CLAY SUBSOIL EXISTS, USE LOAM OR SILT LOAM TOPSOIL.
- UNCHANGED SUBGRADES: IF LAWNS ARE TO BE PLANTED IN AREAS UNALTERED OR UNDISTURBED BY EXCAVATING, GRADING, OR SURFACE SOIL STRIPPING OPERATIONS, PREPARE SURFACE SOIL AS FOLLOWS:
 - REMOVE STONES LARGER THAN 1/2 INCH IN ANY DIMENSION AND STICKS, ROOTS, TRASH, AND OTHER EXTRANEEOUS MATTER. LEGALLY DISPOSE THEM OFF ARLINGTON COUNTY PROPERTY. DO NOT MIX INTO SURFACE SOIL.
 - LOOSEN SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES, APPLY SOIL AMENDMENTS AND FERTILIZERS ACCORDING TO THE PLANTING SOIL MIX PROPORTION AND MIX THOROUGHLY INTO THE TOP 4 INCHES OF SOIL.
- FINISH GRADING: GRADE LANDSCAPE AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ADJUST FOR THE THICKNESS OF SOD, WHERE APPLICABLE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINE GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.

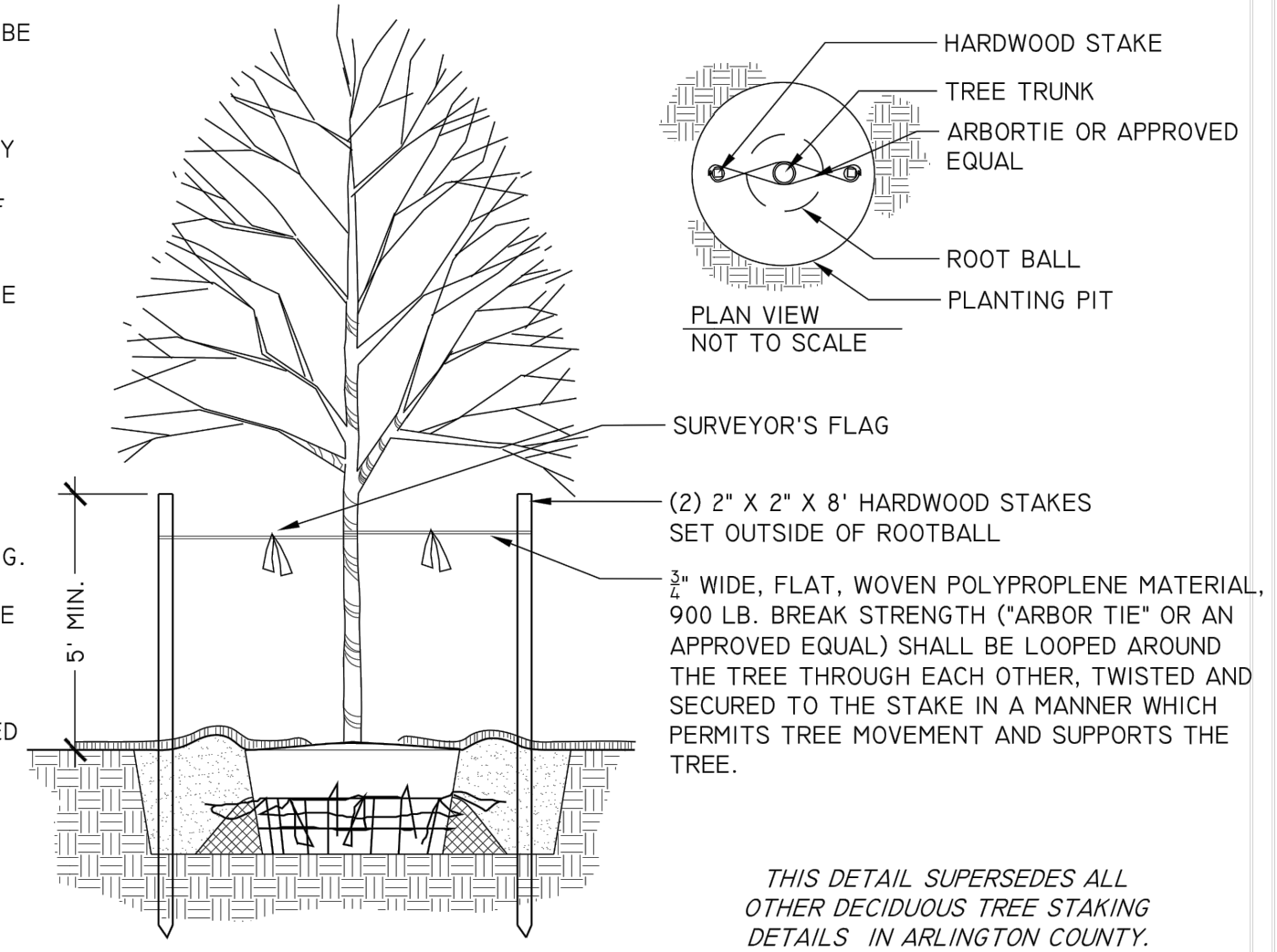
NOTES

1. STAKING AND GUYING MAY ONLY BE IMPLEMENTED WHERE SITE CONDITIONS WARRANT THEIR USE. PLANTED TREES WILL BE ASSESSED INDIVIDUALLY BY ARLINGTON COUNTY URBAN FORESTER. STAKING AND GUYING WILL BE INSTALLED ONLY IF REQUIRED BY ARLINGTON COUNTY URBAN FORESTER. CONDITIONS WHERE STAKING AND GUYING MAY BE NECESSARY TO ENSURE STABILITY INCLUDE: WINDY LOCATIONS, STEEP SLOPES, OR WHERE VANDALISM MAY BE A CONCERN.

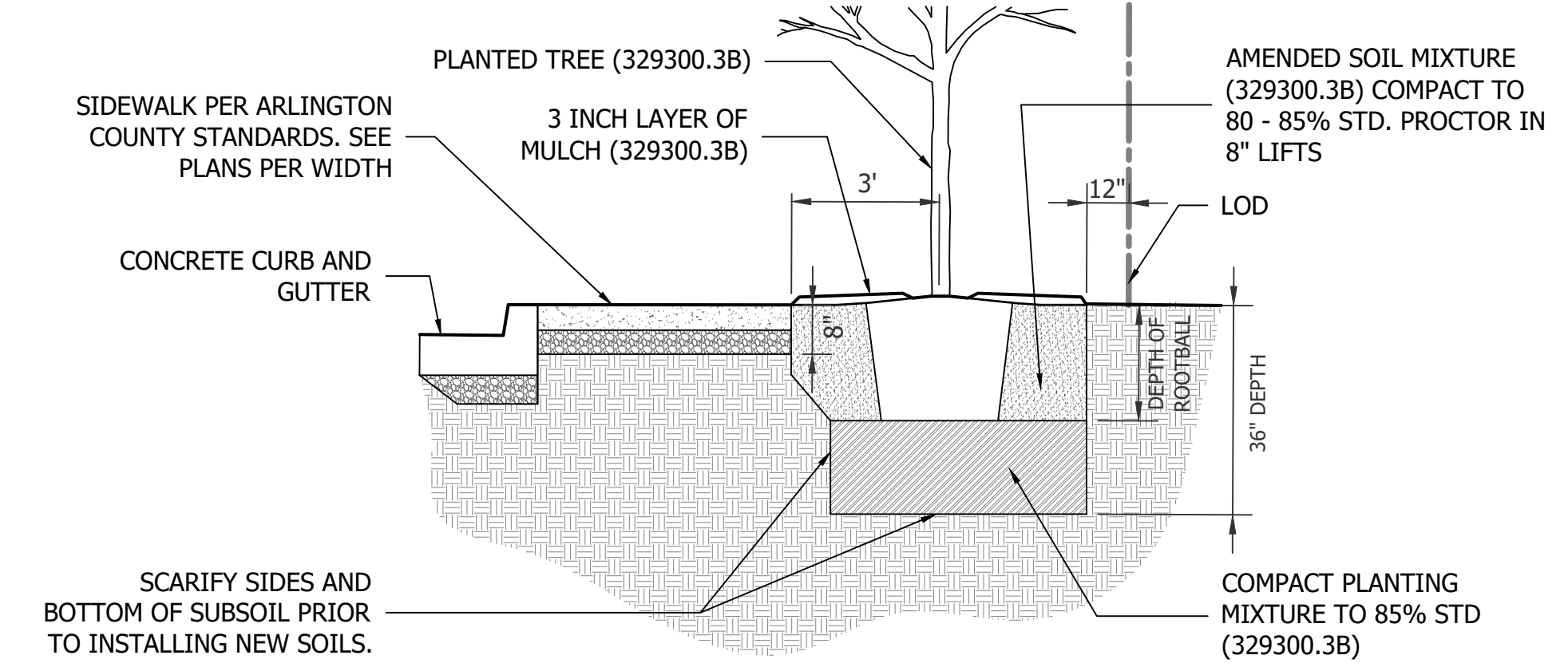
2. STAKES OR GUYS WILL BE INSTALLED USING ACCEPTED ARBORICULTURE PRACTICES. TREES SHALL STAND PLUMB AFTER STAKING.

3. INSTALLATION WILL INCLUDE THE REMOVAL OF ALL STAKING AND GUYING MATERIAL ONE YEAR AFTER INSTALLATION. ANY HOLES LEFT BY REMOVING STAKING SHALL BE FILLED WITH APPROVED TOPSOIL/BACKFILL MIXTURE.

4. REFER TO DETAILS FOR TREE PLANTING INFORMATION.



1 DECIDUOUS TREE STAKING NOT TO SCALE
 ELEVATION 329300.6 (2016) (02930.6)
 ARLINGTON COUNTY DPR



2 TREE PLANTING PIT
 FOR TREE PLANTING PITS IN RIGHT-OF-WAY ADJACENT TO SIDEWALK

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 OLIVER BOEHM
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Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION

D48S

TREE PLANTING NOTES AND DETAILS

DESIGNED: WA
 DRAWN: DB
 CHECKED: OB

PLOTTED: DECEMBER 21, 2023

SCALE:

NOT TO SCALE

C092.3

REVISED ON 1/24/2022
FILENAME: D485-260-LANDSCAPE_PLAN-12TH_RD.DWG PATH: T:\1177200 - MASTER-ARLINGTON COUNTY (CONT)\1177203 - D485 - N OHIO ST AT 12TH RD W07 DESIGN\DWG\DESIGN\CAD\ACTIVE PLOTTED BY: MORRIS SMITH

LANDSCAPE LEGEND

	SPECIES QUANTITY } PROPOSED PLANTING TAG		TREE PLANTING AREA WITH 3 FOOT DEEP PLANTING SOIL
	PROPOSED TREE		4 INCH MINIMUM TOP SOIL LAYER WITH UPLAND SEED MIX, SEE TABLE THIS SHEET
	EXISTING TREE AND CRITICAL ROOT ZONE		4 INCH MINIMUM TOP SOIL LAYER WITH LAWN SEED MIX, SEE TABLE THIS SHEET
			ENGINEERED SURFACE, SEE SHEET C041.1 FOR DETAILS

L1-A1 TREE PLANTING AREA

297 SF PLANTING AREA
891 CF SOIL VOLUME IN PLANTING AREA (WITH 3 FOOT MAX. SOIL DEPTH) PLUS AREA ADJACENT TO EXISTING GREENSPACE TO REMAIN FOR ADDITIONAL SOIL VOLUME SUPPORTS 1 SHADE TREE

TREE PLANTING (SEE PLANT SCHEDULE FOR SIZE):

- THORNLESS HONEY LOCUST - *GLEDITSIA TRIACANTHOS* VAR. *INERMIS*

L1-A2 TREE PLANTING AREA

472 SF PLANTING AREA
1,416 CF SOIL VOLUME IN PLANTING AREA (WITH 3 FOOT MAX. SOIL DEPTH) PLUS AREA ADJACENT TO EXISTING GREENSPACE TO REMAIN FOR ADDITIONAL SOIL VOLUME SUPPORTS 2 SHADE TREES

TREE PLANTING (SEE PLANT SCHEDULE FOR SIZE):

- SWAMP WHITE OAK - *QUERCUS BICOLOR*

L1-A3 TREE PLANTING AREA

670 SF PLANTING AREA
2,010 CF SOIL VOLUME IN PLANTING AREA (WITH 3 FOOT MAX. SOIL DEPTH) PLUS AREA ADJACENT TO EXISTING GREENSPACE TO REMAIN FOR ADDITIONAL SOIL VOLUME SUPPORTS 3 SHADE TREES

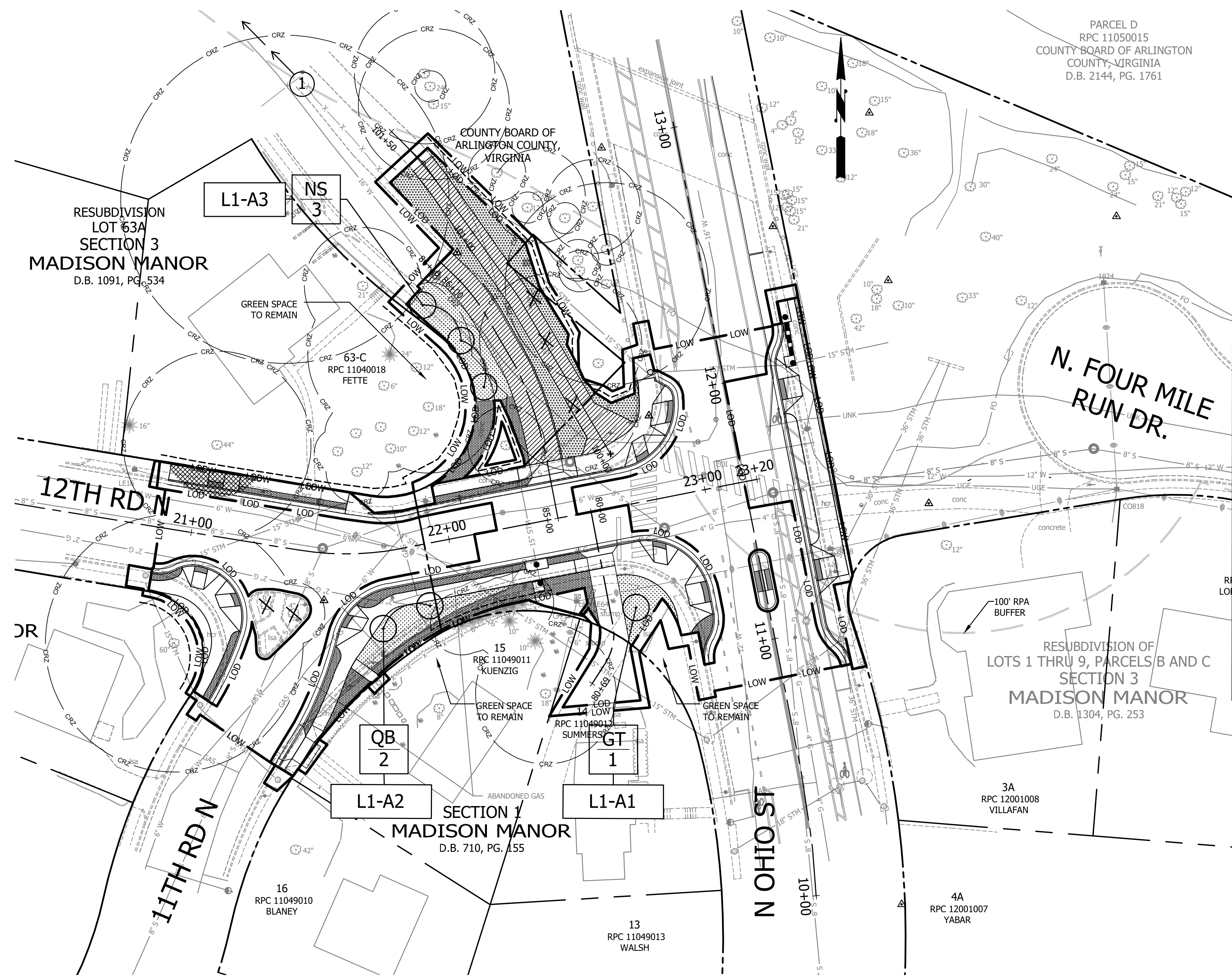
TREE PLANTING (SEE PLANT SCHEDULE FOR SIZE):

- BLACK GUM - *NYSSA SYLVATICA*

MINIMUM SOIL REQUIREMENTS
600 CF PER UNDERSTORY TREE
1,200 CF PER SHADE TREE

CODED NOTES:

1 CONTRACTOR SHALL INSTALL SIX (6) TREES OUTSIDE OF THE PROJECT LIMITS TO MEET TREE REPLACEMENT REQUIREMENTS. A GENERAL AREA HAS BEEN IDENTIFIED APPROXIMATELY 200 FT NORTH OF THE PROJECT LIMITS. SPECIFIC LOCATIONS TO BE DETERMINED IN THE FIELD BY COUNTY URBAN FORESTER. CONTRACTOR SHALL REMOVE INVASIVE PLANTS AND CUT BACK GRASSES IN AREAS TO RECEIVED EXTRA TREE PLANTINGS AS DIRECTED BY THE URBAN FORESTER.



GENERAL NOTES:

- LIMITED SPACE EXISTS WITHIN THE PROJECT LIMITS TO PLANT NEW TREES. AVAILABLE SOIL SPACE VOLUME FOR EACH PROPOSED TREE CAN BE FOUND IN THE **TREE PLANTING AREA** SUMMARIES SHOWN ON THIS SHEET ABOVE. **MINIMUM SOIL REQUIREMENTS**, SHOWN IN THE NOTE ABOVE, DICTATE THE VOLUME OF SOIL REQUIRED FOR EACH TYPE OF PROPOSED TREE WITHIN EACH TREE PLANTING AREA. PROPOSED TREES WHICH CAN BE PLANTED WITHOUT DISRUPTING EXISTING INFRASTRUCTURE OR HABITAT ARE SHOWN WITHIN THE **TREE PLANTING SCHEDULE** SHOWN ON THIS SHEET. IN ORDER TO MEET ARLINGTON COUNTY TREE REPLACEMENT REQUIREMENTS, TREES WHICH ARE UNABLE TO BE PLANTED WITHIN THE PROJECT LIMITS SHALL BE PLANTED IN THE IMMEDIATE PROXIMITY OF THE PROJECT LIMITS. FINAL LOCATION OF EACH TREE SHALL BE DETERMINED BY THE COUNTY URBAN FORESTER PRIOR TO THE ARRIVAL OF TREES. THE CONTRACTOR SHALL PROVIDE AND INSTALL TREE SPECIES AS SHOWN IN THE **SUPPLEMENTARY TREE PLANTING SCHEDULE**.
- PROTECT TREES AS NECESSARY IF TREES ARE NOT INSTALLED IMMEDIATELY UPON ARRIVAL.
- ALL SOIL AREAS MUST UNDERGO PERCOLATION TESTING (PERC TESTING) BEFORE BACKFILLING. PERC TESTING MAY INVOLVE FILLING THE AREAS WITH 2 INCHES OF WATER AFTER EXCAVATION, ENSURING COMPLETE DRAINAGE WITHIN 36 HOURS. SLOWER-DRAINING AREAS MAY NECESSITATE PUNCTURING THROUGH COMPACTED HARDPAN IN MULTIPLE LOCATIONS USING AN EXCAVATOR OR AUGER, OR INCORPORATING AN UNDERDRAIN.
- ALL AREAS NOT UNDER STRUCTURES SHOULD BE COMPACTED TO NO MORE THAN 85% DENSITY TO A DEPTH OF 36 INCHES UPON COMPLETION IN THE PARK, EXCEPT WITHIN 3 FEET OF THE TRAIL OR BETWEEN THE TRAIL AND DRIVEWAY. IN THESE AREAS, THE COMPACTION SHOULD ADHERE TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) SPECIFICATIONS.

UPLAND SEED MIX
SEED MIX TO BE PLANTED WITH A HARVEY CROP OF CEREAL GRAIN. ANNUAL OR PERENNIAL RYE SPECIES NOT PERMITTED.

SPECIES	% BY WT.
Blue Vervain	5.00%
Partridge Pea	5.00%
Early Goldenrod	10.00%
Grassleaf Goldenrod	10.00%
Deertongue	25.00%
Bottlebrush Grass	10.00%
Smooth Blue Aster	10.00%
Broomsedge	25.00%
TOTAL	100.00%

TREE PLANTING SCHEDULE

DECIDUOUS TREES											NEW TREE PLANTING CALCULATIONS		
QTY	KEY	GENUS	SPECIES	VARIETY	COMMON NAME	SIZE AT INSTALLATION	EXPECTED HEIGHT AT MATURITY	REMARKS	TYPE	NOTES	1:1 RATIO (FOR PROPOSED SHADE TREES)	1:3 RATIO (FOR PROPOSED UNDERSTORY TREES)	NEW TREE PLANTING REPLACEMENT VALUE
03	NS	<i>Nyssa</i>	<i>sylvatica</i>		BLACK GUM	2" Caliper	50'		Shade Tree		✓		03
01	GT	<i>Gleditsia</i>	<i>triacanthos</i>	"INERMIS"	THORNLESS HONEY LOCUST	2" Caliper	80'		Shade Tree		✓		01
02	QB	<i>Quercus</i>	<i>bicolor</i>		SWAMP WHITE OAK	2" Caliper	55'		Shade Tree		✓		02
06	TOTAL TREES										TOTAL TREE PLANTING REPLACEMENT VALUE		06

SUPPLEMENTARY TREE PLANTING SCHEDULE

DECIDUOUS TREES					
QTY	GENUS	SPECIES	VARIETY	COMMON NAME	SIZE AT INSTALLATION
03	<i>Quercus</i>	<i>rubra</i>		RED OAK	2" Caliper
03	<i>Liriodendron</i>	<i>tulipifera</i>		TULIP POPLARS	2" Caliper
06	TOTAL SUPPLEMENTARY TREE PLANTINGS				

TREE REPLACEMENT SUMMARY

REQUIRED NUMBER OF NEW TREE PLANTINGS <small>PER EXISTING TREE INVENTORY, SEE SHEET C092.2 - TREE INVENTORY PLAN - 2</small>	12
TOTAL TREE PLANTING REPLACEMENT VALUE	06
TOTAL SUPPLEMENTARY TREE PLANTINGS	06
TOTAL PROPOSED TREE PLANTINGS	12

LAWN SEED MIX
CULTIVARS CHOSEN TO BE SELECTED FROM THE CURRENT **VIRGINIA TURFGRASS VIRGINIA RECOMMENDATIONS LIST**
PER ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS SECTION 329200 - "SEEDING AND SODDING SUBSECTION 2.02 - "SEED"

TYPE	% BY WT.
Turf-type Tall Fescue	80.00%
Bluegrass	10.00%
Perennial Ryegrass	10.00%
TOTAL	100.00%

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N OHIO ST AND 12TH RD N INTERSECTION
D-485

LANDSCAPE PLAN

DESIGNED: WA
DRAWN: DB
CHECKED: OB

PLOTTED: DECEMBER 29 2023

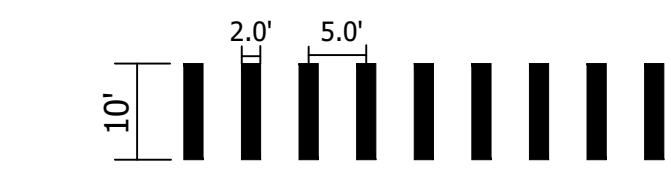
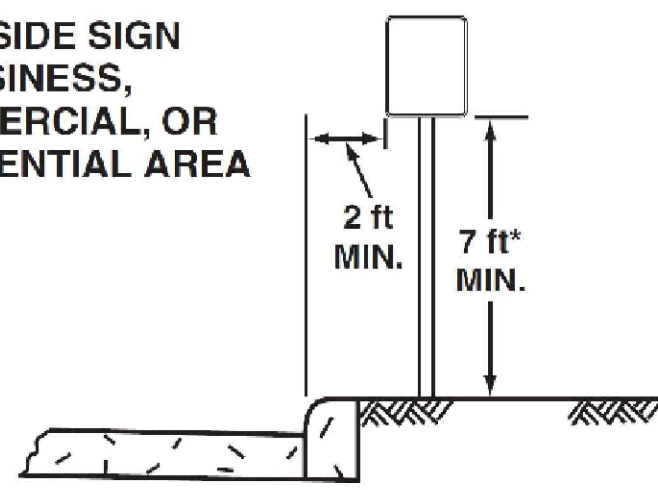
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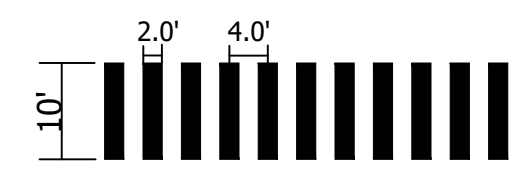
C092.4

REVISED ON 1/24/2022
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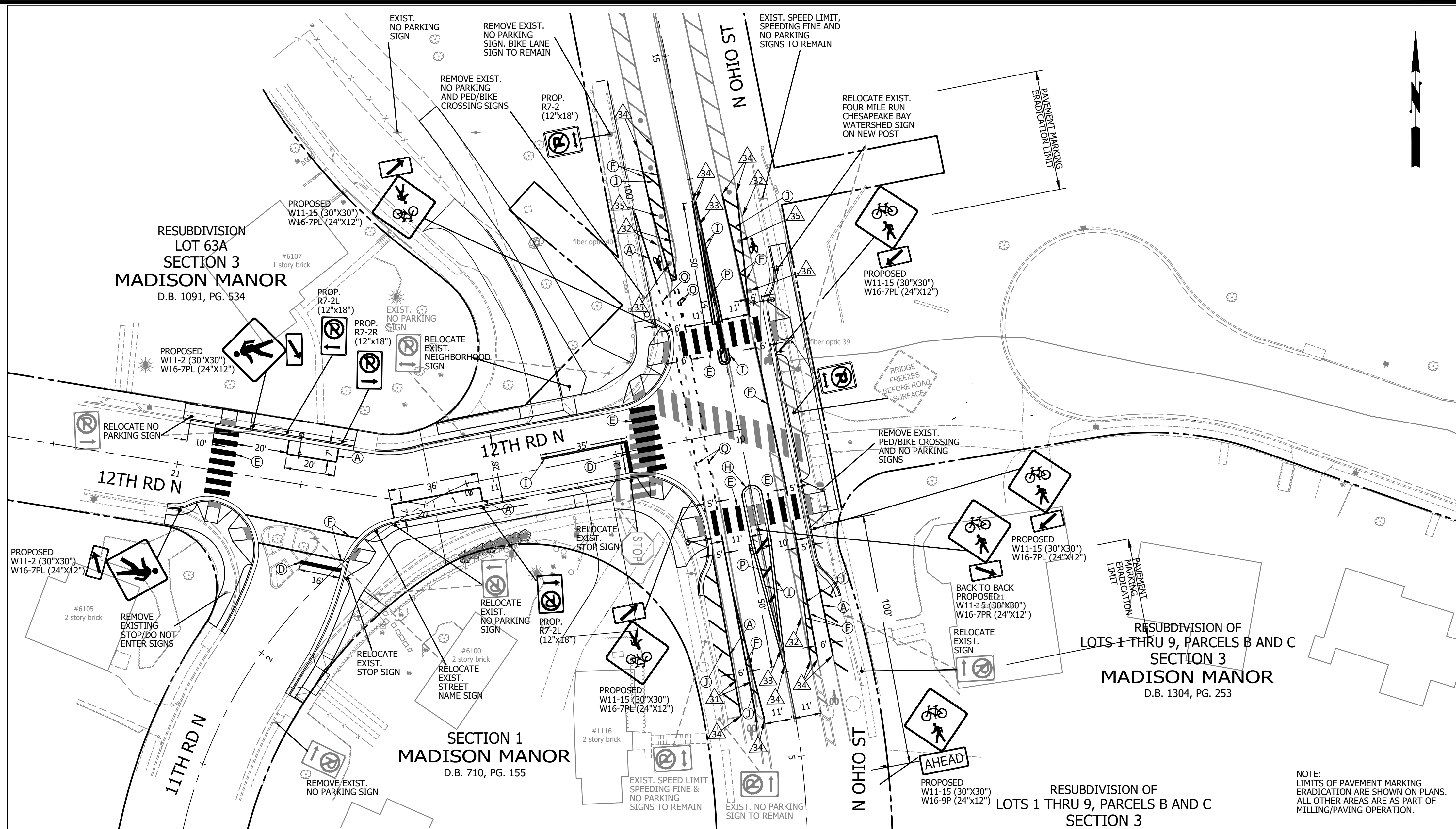
C - ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA



HIGH VISIBILITY CROSSWALK FOR TRAIL CROSSING
 NOT TO SCALE
 (FOR N OHIO ST)



HIGH VISIBILITY CROSSWALK
 NOT TO SCALE
 (FOR 12TH RD N)



NOTE: LIMITS OF PAVEMENT MARKING ERADICATION ARE SHOWN ON PLANS. ALL OTHER AREAS ARE AS PART OF MILLING/PAVING OPERATION.

PAVEMENT MARKING NOTES:

- STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.
- CONTACT DES-TRANSPORTATION ENGINEERING & OPERATIONS CONSTRUCTION MANAGEMENT SPECIALIST OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
- PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
 - THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - ARLINGTON COUNTY MARKING STANDARDS.
- ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
- STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
- CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
- LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
- ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
- SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
- BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.
- EDGE LINES ARE ONLY REQUIRED WHERE SHOWN ON THE PLANS.
- FOR DETAILS SEE ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATION, DETAILS MK-1 TO MK-12

SIGN NOTES:

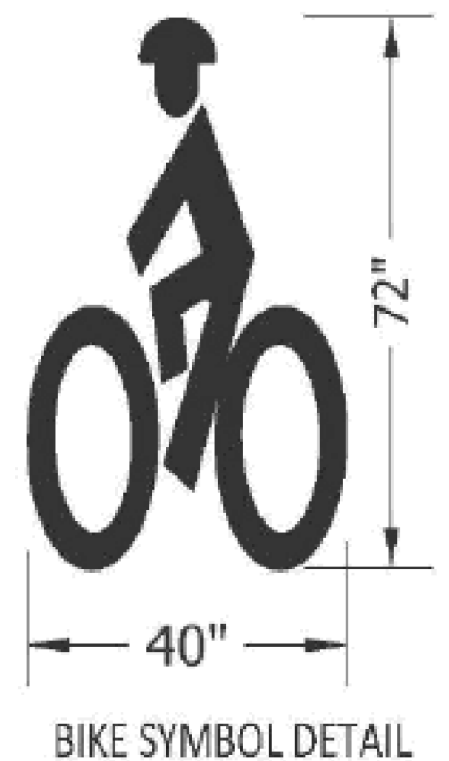
- FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"x2.50") WITH HARDWARE FOR 2" POST. USE 3/8" CORNER BOLT WITH FLANGED NUT AND 3/8" DRIVER RIVET WITH WASHER.
- CONTACT T80 CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.
- ALL EXISTING TO BE RELOCATED SIGNS SHALL BE INSTALLED WITH STP-1 (MOD) POST AND TYPE A FOUNDATION.

CONSTRUCTION NOTES

- 31 ERADICATE EXISTING LANE LINE MARKINGS
- 32 ERADICATE EXISTING HATCH LINE
- 33 ERADICATE EXISTING DOUBLE YELLOW CENTERLINE
- 34 TIE-IN TO EXISTING PAVEMENT MARKING(S)
- 35 RELOCATE EXISTING FLEXIBLE DELINEATOR TO CENTER OF GORE MARKINGS
- 36 REMOVE EXISTING FLEXIBLE DELINEATOR

STANDARD PAVEMENT MARKING LEGEND

(A) TYPE B CLASS 1	WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
(B) TYPE B CLASS 1	WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
(C) TYPE B CLASS 1	WHITE 4" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(D) TYPE B CLASS 1	WHITE 18" WIDTH	STOP BARS
(E) TYPE B CLASS 1	WHITE 24" WIDTH	CONTINENTAL CROSS WALKS, VDOT STOP BARS
(F) TYPE B CLASS 1	WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSS WALKS, BIKE LANES
(G) TYPE B CLASS 1	YELLOW 4" WIDTH, 10' LONG, 30' SPACING	DIVIDED TRAFFIC, TWO WAY TURN LANES
(H) TYPE B CLASS 1	YELLOW 4" WIDTH	EDGE LINES
(I) TYPE B CLASS 1	YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
(J) TYPE B CLASS 1	WHITE 6" WIDTH, 10' SPACING @45°	HATCH LINES, SAFETY ZONES
(K) TYPE B CLASS 1	WHITE SINGLE ARROW	TURN LANES
(L) TYPE B CLASS 1	WHITE COMBINATION ARROW	TURN LANES
(M) TYPE B CLASS 1	WHITE 8" LETTERS	PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY, etc.)
(N) TYPE B CLASS 1	WHITE 6" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(O) TYPE B CLASS 1	WHITE 12" WIDTH, 20' SPACING @45°	GORE MARKINGS
(P) TYPE B CLASS 1	YELLOW 12" WIDTH, 10' SPACING @45°	GORE MARKINGS
(Q) TYPE B CLASS 1	WHITE 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
(R) TYPE B CLASS 1	WHITE 4" WIDTH, DOUBLE LINE, 4' SPACING	CURB EXTENSIONS
(S) TYPE B CLASS 1	YELLOW 4" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
(T) TYPE B CLASS 1	YELLOW 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
(U) TYPE B CLASS 1	YELLOW 6" WIDTH, 10' SPACING @45°	HATCH LINES, SAFETY ZONES
(V) TYPE B CLASS 1	YELLOW 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS, DASHED CENTERLINES

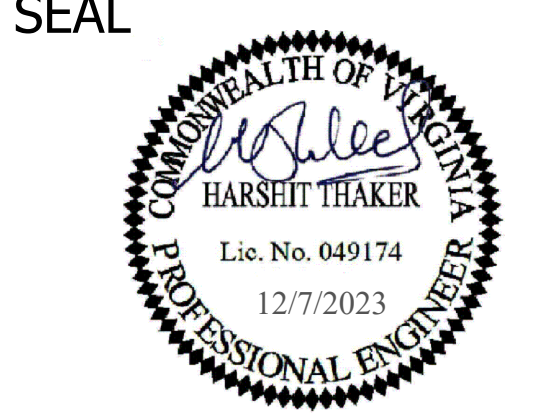
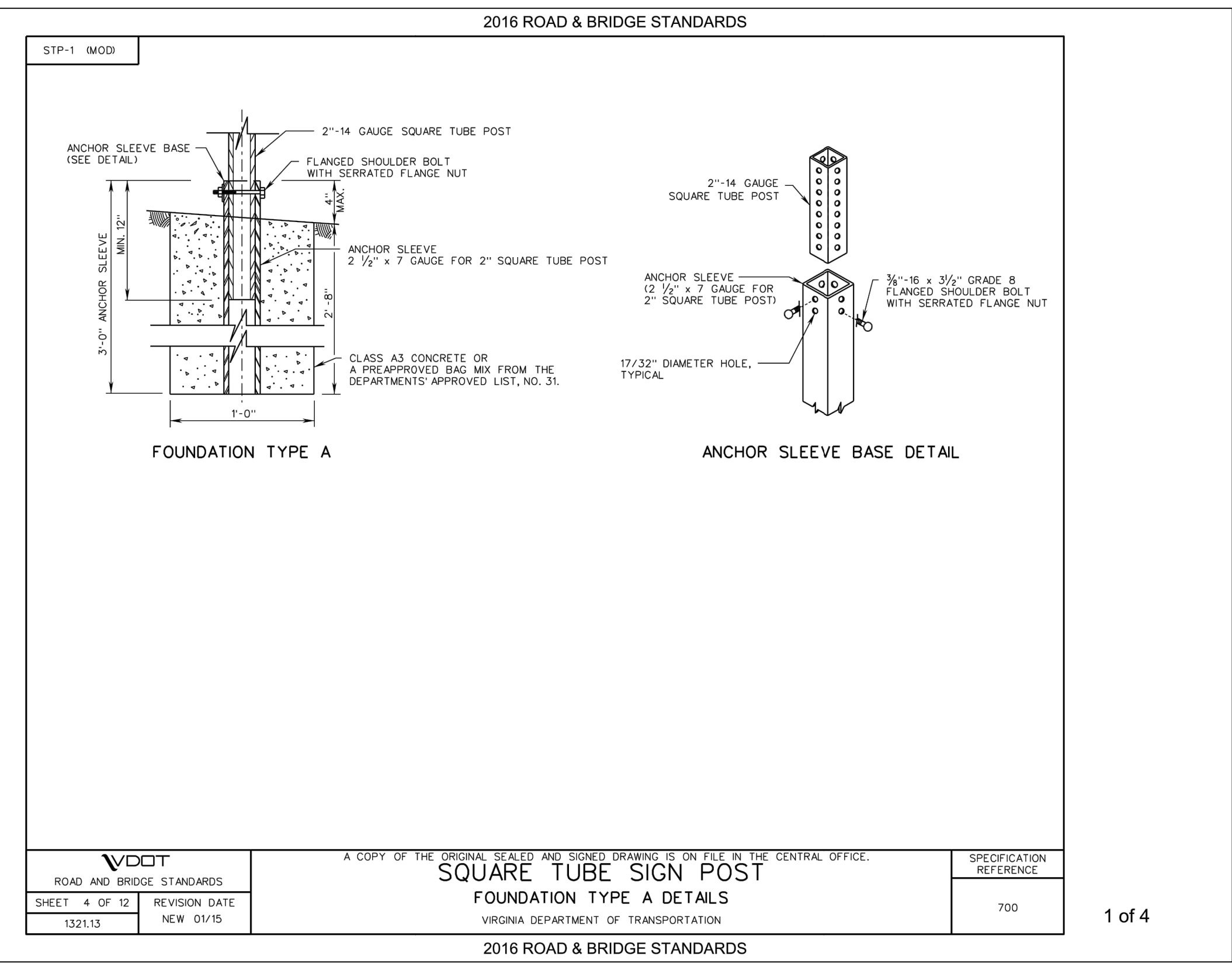


STRIPING LEGEND

- (A) EXISTING STRIPING
- (A) PROPOSED STRIPING

LEGEND

- EXISTING: BUS STOP, FIRE HYDRANT, PARKING METER, SIGN
- PROPOSED: BUS STOP, FIRE HYDRANT, PARKING METER, SIGN



APPROVALS

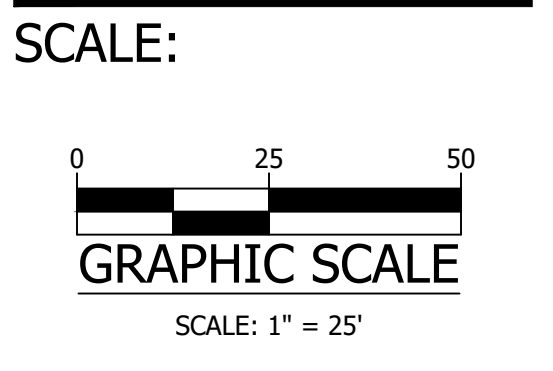
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CONSTRUCTION MANAGEMENT SUPERVISOR	1/12/2024
WATER, SEWER, STREETS BUREAU CHIEF	1/11/2024
ENGINEERING BUREAU CHIEF	1/12/2024
PROJECT MANAGER	12/18/2023

REVISIONS

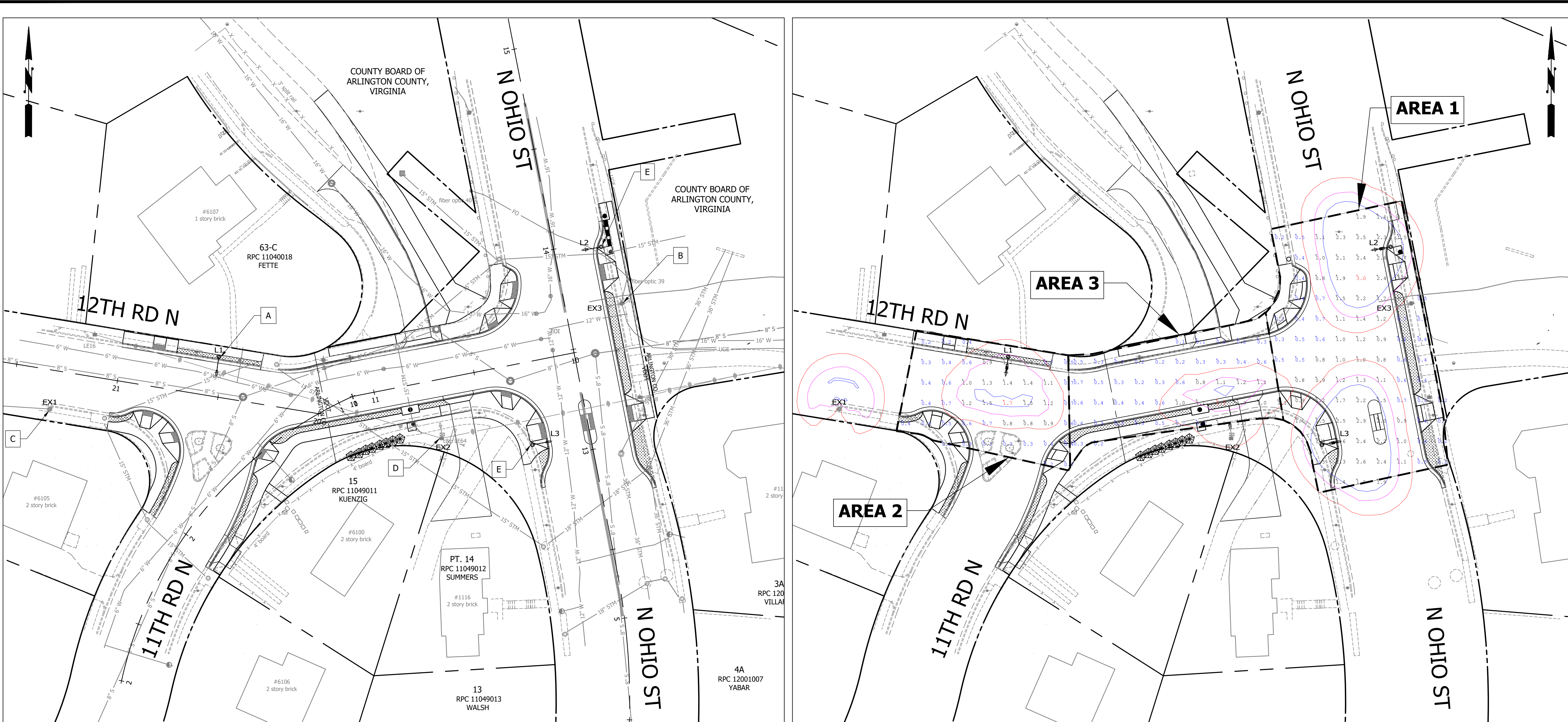
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N OHIO ST AND 12TH RD N INTERSECTION
 D485
 SIGNAGE AND STRIPING PLAN - 12TH RD N

DESIGNED: JCS
 DRAWN: JCS
 CHECKED: HT
 PLOTTED: DECEMBER 21, 2023

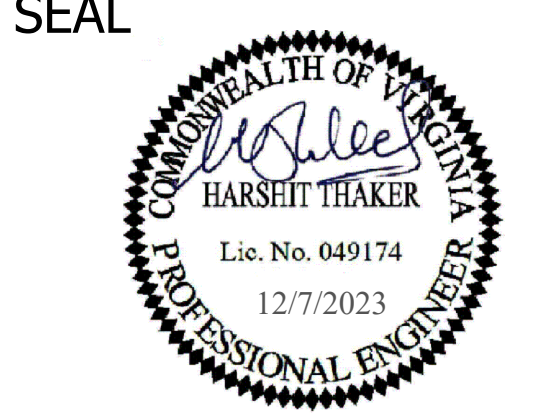


REVISED ON 1/24/2022
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ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

- STREETLIGHT KEY NOTES:**
- A** PROPOSED STREETLIGHT POLE WITH 6' UPSWEEP LUMINAIRE ARM AND 100W LED COBRA LUMINAIRE BY DEV.
 - B** EXISTING STREETLIGHT TO BE REMOVED BY OTHERS.
 - C** EXISTING ARLINGTON COUNTY 12' DECORATIVE POST-TOP STREETLIGHT POLE WITH 39W SINGLE POST-TOP LED LUMINAIRE TO REMAIN.
 - D** EXISTING UTILITY POLE WITH 100W DEV HPS COBRA AND 6' LUMINAIRE ARM TO REMAIN.
 - E** PROPOSED STREETLIGHT POLE WITH 6' UPSWEEP LUMINAIRE ARM AND 150W LED COBRA LUMINAIRE BY DEV.

Symbol	Qty	Label	Arrangement	LLF	Description
●	1	39W GX4 200mA Type III 3000K	SINGLE	0.900	RL34xAxxxSxxWx2xxxx 39W LED
⬆	1	42323680 LUMNR 3000K LED - 6ft	SINGLE	0.860	RSWS9029SP& (RSWS-A-HT-3ME-5L-30K7-UL-GY-N) 100W LED
⬆	1	Enclosed Flat Lens 100W HPS	SINGLE	0.650	OVH105XX3D 100W HPS
⬆	2	42323684 LUMNR 3000K LED COB-6ft	SINGLE	0.860	RSWM9019SP& (RSWM-A-HT-3ME-9L-30K7-UL-GY-N) 150W LED

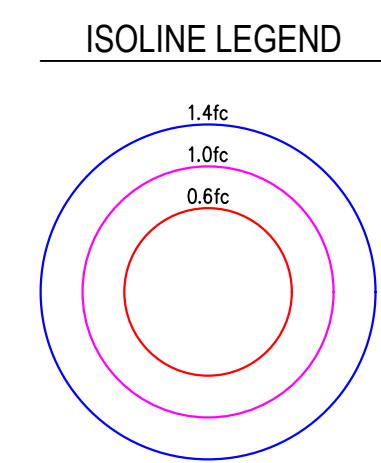
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Target
AREA 1	ILLUMINANCE	Fc	1.22	3.0	0.2	6.10	15.00	1.0
AREA 2	ILLUMINANCE	Fc	0.70	1.7	0.2	3.50	8.50	0.6
AREA 3	ILLUMINANCE	Fc	0.55	1.5	0.1	5.50	15.00	0.6

POLE TYPE	STANDARD # (COUNTY ONLY)	QUANTITY	MATERIAL	ARM MOUNTING HEIGHT	FINISH COLOR	FOUNDATION TYPE	STOCK NUMBER (DOMINION ONLY)
COBRA		3	COMPOSITE	23'	GRAY RAL-7038	DIRECT EMBED	50502000

ARM TYPE	STANDARD # (COUNTY ONLY)	QUANTITY	MATERIAL	ARM LENGTH	FINISH COLOR	STOCK NUMBER (DOMINION ONLY)
UPSWEEP		3	ALUMINUM	6'	NATURAL ALUMINUM	42021269

LUMINAIRE TYPE	STANDARD # (COUNTY ONLY)	DRAWING SYMBOL	QUANTITY	WATTAGE	CCT	FINISH COLOR	DISTRIBUTION TYPE	STOCK NUMBER (DOMINION ONLY)
LED COBRA		⬆	2	83W **	3000K	GRAY	TYPE III	42323684
LED COBRA		⬆	1	45W *	3000K	GRAY	TYPE III	42323680

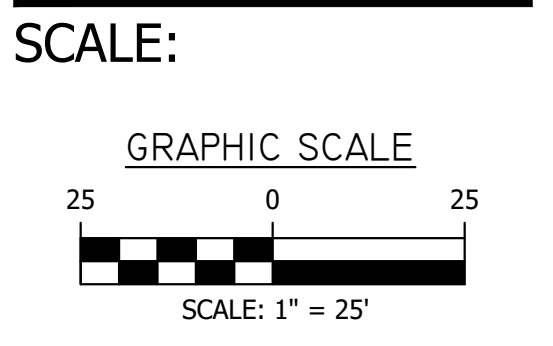
** 150W HID EQUIVALENT
* 100W HID EQUIVALENT
NOTE: POLES, ARMS AND LUMINAIRES TO BE PROVIDED AND INSTALLED BY DOMINION ENERGY.



- LEGEND**
- ⬆ PROPOSED DEV STREETLIGHT POLE WITH 6' LUMINAIRE ARM AND LED COBRA FIXTURE (L1, L2 AND L3)
 - ⬆ EXISTING ARLINGTON COUNTY STREETLIGHT POLE WITH 6' LUMINAIRE ARM AND LED COBRA FIXTURE (EX3)
 - ⬆ EXISTING ARLINGTON COUNTY 12' DECORATIVE POST-TOP STREETLIGHT POLE WITH SINGLE POST-TOP LED LUMINAIRE (EX1)
 - ⬆ EXISTING UTILITY POLE WITH 6' LUMINAIRE ARM AND HPS COBRA FIXTURE (EX2)

N OHIO ST AND 12TH RD N INTERSECTION
D485
STREETLIGHT AND LIGHTS
PHOTOMETRICS PLAN

DESIGNED: JCS
DRAWN: JCS
CHECKED: HT
PLOTTED: DECEMBER 21, 2023



C111.1

TRANSPORTATION MANAGEMENT PLAN (TMP) (TYPE A - CATEGORY I)

Temporary Traffic Control Plan Notes

GENERAL NOTES:

- TMP Type A Project Information:
 - Identify the project's TMP Type: This project's TMP plan has been designed in conformance with Type A TMP plan.
 - Identify the work zone location, length, and width: The project location and work zone areas have been delineated as shown on the MOT plan sheet C121.1. The work zone lengths and widths vary as shown on this sheet.
 - Note the hours Construction Areas will be active: Construction areas shall be considered active when any impact to traffic occurs, (1st cone in Road). Construction Areas hours have the following limitations:

Work Hours:

 - In Arlington right-of-way - neighborhood road: 9 AM to 4 PM arterial road: 9 AM to 3 PM
 - In VDOT right-of-way - 9:30 AM to 3 PM (Mon. - Thur) and 9:30 AM to 2 PM (Fri.)
 - All lanes shall be fully open to traffic outside the above hours unless specified otherwise in the maintenance of traffic plans.

No lane closures will be allowed from noon on the day before a holiday until noon on the workday following the holiday. Holidays include all State and Federal holidays.
- The TMP plan during construction shall be in accordance with Sections 512, 701,703, & 704 of the Virginia Department of Transportation Road and Bridge Specifications, dated 2020, the Virginia Work Area Protection Manual (VWAPM) dated 2020, the Manual on Uniform Traffic Control Devices (MUTCD), dated 2009 and the Virginia Supplement to the 2009 MUTCD, dated 2011.
- Note any existing entrances, existing intersection, or existing pedestrian access points that will be affected by the Construction Area or by the traffic control devices.

Existing Entrances:
There are existing driveway entrances to the residential properties at #1121 Ohio Street, #1116 Ohio Street, #6107 12th Road, and #6100 11th Road within the project limit. These driveway entrances will be impacted during construction and will be replaced according to Arlington County construction standards.

Existing Intersections:
The project is located at the intersections of N Ohio Street and 12th Rd N, and also 11th Rd N and 12th Rd N. All existing intersections are to remain open and functional during construction.

Existing Pedestrian And Bicyclist Access Points:
There are existing sidewalks, crosswalks and trail within the project limits.

Existing Bus Stops:
There are no existing bus stops on this project.
- Identify the major types of travelers: The traffic on the roadway consists of passenger vehicles and school buses. The adjacent areas are residences.
- The contractor, at no additional cost to the project and which shall be considered incidental to the cost of the project :
 - Designate a person assigned to the project who will have the primary responsibility, with sufficient authority, for implementing the TMP and other safety and mobility aspects of the permit work. This person shall coordinate with the Arlington County Construction Manager for the duration of construction.
 - Ensure that personnel assigned to the project are trained in traffic control to a level commensurate with their responsibilities in accordance with VDOT's work zone traffic control training guidelines.
 - Inform the Engineer of any work requiring lane shifts, lane closure, and/or phase changes a minimum of two weeks prior to implementing this activity.

Perform reviews of the Construction Area to ensure compliance with contract documents at regularly scheduled intervals at the direction of the Engineer. Contractors shall maintain a copy of the temporary traffic control plan at the work site at all times.

Coordinate with Arlington County Police Department and Arlington County Fire/Rescue Department for all lane closures and detours of any nature, at no additional cost to the project.

Schedule all phases of construction in such a manner that water, sanitary sewer, cable, fiber cable/optic cable; any overhanging utilities and any underground utilities services will not be interrupted.

This TMP/MOT/SOC plan is intended as a guide. It is not to enumerate every detail which must be considered in the construction of each phase, but only to show the general handling of existing traffic. If the contractor is to deviate from the approved TMP, a new or revised TMP must be submitted to the engineer for review and approval.

Maintenance of Traffic (MOT) plan which include the Sequence of Construction (SOC) was reviewed and approved by Arlington County Transportation Engineering and Operation (TE&O). The MOT plan contained types of signages and barricades used, and recommended phases and Sequences of Construction. For MOT & SOC, see plan sheet C121.1.

Each phase of construction shall be completed prior to the start of the next phase unless otherwise directed by the engineer.

Contractor shall maintain a single lane for each travel direction at all times with a minimum clear roadway width no less than existing width, unless approved by the Engineer.

All areas excavated below the existing pavement surface and within the clear zone at the conclusion of each workday, shall be backfilled up to existing pavement or newly constructed pavement surface for the safety and protection of vehicular traffic. All costs for placing, maintaining and removing backfilled materials shall be included in the price bid for related items in the contract and no additional compensation will be allowed.

Contractor shall ensure positive drainage for the duration of the project. Contractor shall add any additional temporary measures necessary to facilitate proper, positive drainage for the duration of construction.

Unless specified on the plans, all existing turn lanes shall be maintained at all times for the duration of the construction.

Where Group 2 Channelizing Devices are used to separate the Construction Area and traffic, a minimum clear zone areas as defined in the VWAPM is to be maintained.

IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN

During the first day of the new work zone traffic pattern, the project's Manager/Engineer and project's Construction Manager shall inspect the work zone to ensure compliance with the TMP. On the third to fifth day of implementation of the TMP's new work zone pattern, the Construction Manager shall conduct an on-site review of the work zone's performance in coordination with VDOT and recommend to the Contractor any required changes to the TMP to enhance the work zone's safety and mobility. All such changes shall be documented. An on-site review of the project's work zone traffic control by the County's Construction Manager and the Contractor shall be conducted (with coordination from VDOT) within 48 hours of any fatal incident/crash within the work zone.

PUBLIC COMMUNICATION PLAN

The Contractor shall be responsible for:

- Notifying the Project Construction Manager and VDOT Field Engineer two weeks in advance of any scheduled work plan that may cause traffic delays.
- Notifying the Project Construction Manager and VDOT Field Engineer of any unscheduled traffic delays that may occur.
- Installing Portable Changeable Message Sign (PCMS) with project start date information approximately 500' before and after the project site limit three (3) weeks in advance prior to start of any roadwork and lane closure.

TRANSPORTATION OPERATIONS

The contractor shall be responsible for implementing and providing the following:

- Notifying the VDOT Regional Transportation Operations Center (TOC) 48 hours in advance in order to place lane closure information on the 511 system and va-traffic.
- Post a list of local emergency response agencies inside the project's construction office/trailer or made readily available at the work site at all times.
- Immediately report any traffic incidents that may occur in the work zone.
- Notify the project's Construction Manager and corresponding VDOT Field Engineer of any incidents and expected traffic delays.
- Within 24 hours of any incidents within the construction work zone, a review of the traffic controls shall be implemented and necessary adjustments made to reduce the frequency and severity of any future accidents.

CONTACTS NUMBERS:

- Kamal Taktak - Construction Management Supervisor , DES - 703-228-7527
- Scott Sedwick - DES Operation Manager, TE&O - 703-228-0650
- Adil Chauhan - Assistant Bureau Chief, Engineering Bureau, DES - 703-228-7542
- DES R-O-W Permitting Section - 703-228-4798
- Arlington County Transit Bureau - 703-228-3049
- Arlington County Water, Sewer and Street Operation - 703-228-6555
- Arlington County Police - 703 -558-2222
- Emergency Call - 911
- VDOT Field Engineer - Mark Kaldma
- VDOT's NRO (Northern Regional Operations) TOC - 703-877-3449

GENERAL CONSTRUCTION NOTE

- The Contractor is to make any necessary adjustment during both working hours and non-working hours to ensure the protection and safety of the adjacent property owners, pedestrians, bicyclists, vehicular traffic and the general public from any construction related activity, construction equipment and the construction site itself.

VDOT OPERATIONS REQUIRES NOTIFICATION WHEN TRAFFIC CONTROL IMPACTS THE TRAVEL WAY.
PLEASE CONTACT CARLENE MCWHIRT 571-350-2078 FOR ADDITIONAL INFORMATION OF LCAM REQUIREMENTS.

GENERAL MAINTENANCE OF TRAFFIC NOTES:

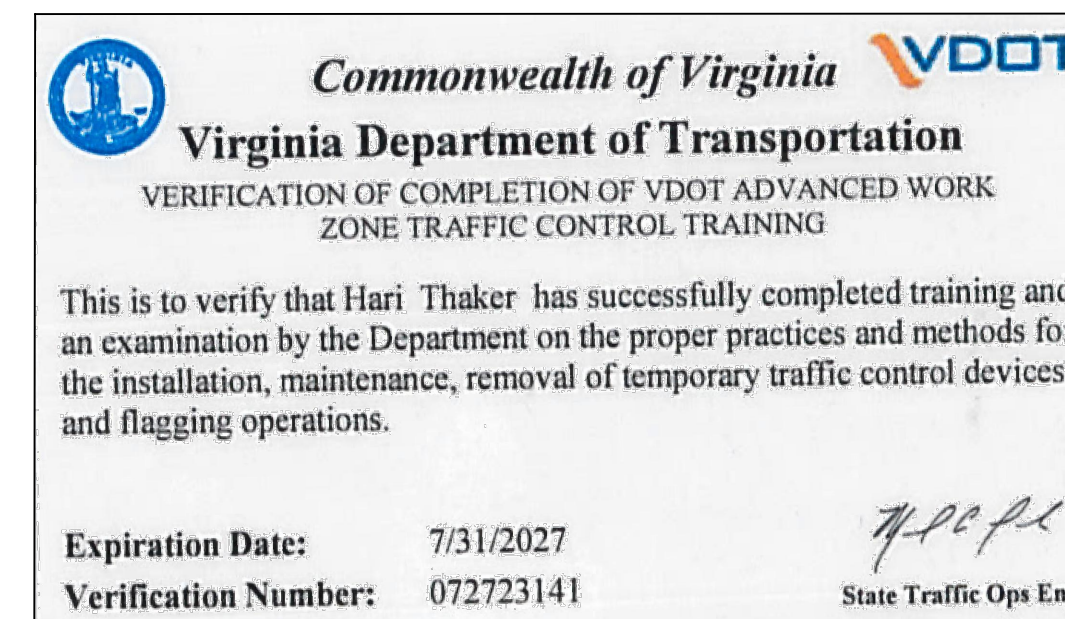
- TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, AND/OR AS DIRECTED BY THE PROJECT OFFICER.
- THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORK. THE SCHEDULE SHALL INDICATE THE DURATION OF ALL LANE OR SHOULDER CLOSURES. THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF PROCEEDING TO THE NEXT WORK SEGMENT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER OF PARKING RESTRICTION NEEDS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK FOR EACH SEGMENT. COUNTY PROJECT OFFICER SHALL RESTRICT PARKING BY CONTACTING DES - PERMITTING SECTION, 703-228-4798.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL EITHER MAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GUIDE TRAFFIC THROUGH WORK ZONES.
- THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF DRIVEWAY CLOSURE FOR APPROVAL BY THE PROJECT OFFICER. THE PROJECT OFFICER SHALL BE NOTIFIED A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF SUCH ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THE PROPERTY. THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY.
- ANY EXCAVATIONS WHICH ARE SPECIFICALLY APPROVED BY THE PROJECT OFFICER TO REMAIN OPEN PAST NORMAL WORKING HOURS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND AS APPROVED BY THE PROJECT OFFICER.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS, UNLESS OTHERWISE APPROVED IN THE PLANS.
- PEDESTRIAN TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH MUTCD.
- ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS.
- WHEN NECESSARY, PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDBLOCK WORK SITES.
- PEDESTRIANS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.
- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU, 703-228-3049, A MINIMUM OF 4 WEEKS PRIOR TO COMMENCEMENT OF WORK IF TRANSIT IS AFFECTED OR IF THERE ARE ANY IMPACTS TO THE TRANSIT STOPS OR ROUTES. NOTE: ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE A MINIMUM OF 11' WIDE.
- AT SIGNALIZED INTERSECTIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE DETECTION AT ALL TIMES DURING THE PROJECT. TRAFFIC SENSORS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION STATE PRIOR TO THE COMPLETION OF THIS PROJECT.
- CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH ARE NOT APPLICABLE OR ARE IN CONFLICT WITH THIS MOT PLAN.
- CONTRACTOR SHALL ERADICATE AND RE-STRIPE AS NECESSARY ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH OR DO NOT ALIGN WITH THE TEMPORARY PAVEMENT MARKINGS OR NEW TRAFFIC PATTERNS.
- CONTRACTOR SHALL ERADICATE ALL TEMPORARY PAVEMENT MARKING, INCLUDING TEMPORARY MARKED CROSSWALKS ONCE THE WORK AREA(S) ASSOCIATED WITH THE MARKINGS HAS BEEN COMPLETED.
- COORDINATE WITH DES-TRANSIT BUREAU AT 703-228-3049 AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK IF TRANSIT IS AFFECTED OR IF THERE ARE ANY IMPACTS TO TRANSIT STOPS OR ROUTES.
- ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11 FEET WIDE.
- TEO SIGNAL CONSTRUCTION MANAGER SHALL BE INFORMED 1 WEEK PRIOR TO CHANGING ZONES/PHASES OF MOT.

MOT RECOMMENDED TTC:			
MOT ZONE#	TTC#	COMMENTS	DURATION
ZONE# A1	TTC-5.2	CONSTRUCTION: SIDEWALKS, ADA RAMP, CURBS, GUTTERS	2 WEEKS
	TTC-35.1	MOT: SHOULDER CLOSURE, SIDEWALK CLOSURE, DRIVEWAY	
ZONE# A2	TTC-5.2	CONSTRUCTION: MEDIAN ISLAND REMOVAL, FULL DEPTH PAVING, SIDEWALKS,	2 WEEKS
	TTC-35.1	ADA RAMP, CURBS, GUTTERS	
ZONE# B	TTC-5.2	CONSTRUCTION: SIDEWALKS, ADA RAMP, ASPHALT TRAIL, CURBS, GUTTERS	2 WEEKS
	TTC-36.2	MOT: SHOULDER CLOSURE, SIDEWALK CLOSURE, CROSSWALK CLOSURE	
ZONE# C1	TTC-5.2	CONSTRUCTION: DRAINAGE STRUCTURES AND PIPES, SIDEWALKS, ADA RAMP,	3 WEEKS
	TTC-35.1	CURBS, GUTTERS	
ZONE# C2	TTC-36.2	MOT: SHOULDER CLOSURE, SIDEWALK CLOSURE, CROSSWALK CLOSURE	2 WEEKS
	TTC-5.2	CONSTRUCTION: RAISED MEDIAN NOSE	
ZONE# C3	TTC-5.2	CONSTRUCTION: DRAINAGE STRUCTURES, SIDEWALKS, ADA RAMP, CURBS,	2 WEEKS
	TTC-35.1	GUTTERS	
ZONE# D	TTC-36.2	MOT: SHOULDER CLOSURE, SIDEWALK CLOSURE, CROSSWALK CLOSURE	3 WEEKS
	TTC-23.2	CONSTRUCTION: FULL DEPTH RECONSTRUCTION	
ZONE# E	TTC-23.2	CONSTRUCTION: MILLING/OVERLAY	1 WEEK
	TTC-36.2	MOT: MOVING/MOBILE OPERATION, CROSSWALK CLOSURE, END OF THE DAY PAVING	
ZONE# F (SEE SIGN & MARKING PLAN)	TTC-13.2	CONSTRUCTION: PAVEMENT MARKING ERADICATION AND INSTALLATION	1 WEEK
	TTC-36.2	MOT: MOVING/MOBILE OPERATION, CROSSWALK CLOSURE	

NOTE: THE DURATIONS SHOWN WERE DEVELOPED FOR PLANNING AND ESTIMATION PURPOSES ONLY. THE DURATIONS IN NO WAY ALTER THE CONTRACT TIME FOR COMPLETION, OR INFRINGES ON THE CONTRACTORS MEANS AND METHODS. THE CONTRACTORS SUBMITTED SCHEDULE SUPERSEDES THE ESTIMATED DURATIONS SHOWN.

Additional Notes:

- Spacing of advance warning signs shall be minimum 100 ft for posted speed limit of 25 mph.
- The minimum lane width shall be 11'. This applies to both during construction work hours, and when the roadway is opened up to normal traffic flow for all phases of construction.
- Modifications to the maintenance of traffic plan or construction phasing may be made at the contractor's request with approval from the county projects officer, or at the direction of the county project officer.
- Contractors shall cover any existing signs which are not applicable or are in conflict with this MOT plan.
- Temporary signs and barriers should not be placed where they will obstruct passage on sidewalks, unless such signs or barriers are intended to close that section of sidewalk.



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SEAL



APPROVALS DATE

[Signature] 1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR

[Signature] 1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR

[Signature] 1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF

[Signature] 1/12/2024
ENGINEERING BUREAU CHIEF

Kyle Kling 12/18/2023
PROJECT MANAGER

REVISIONS DATE

NO.	DESCRIPTION	DATE

N OHIO ST AND 12TH RD N INTERSECTION

D-485

TRAFFIC MANAGEMENT PLAN - 1

DESIGNED: MS
DRAWN: MS
CHECKED: HT

PLOTTED: DECEMBER 21, 2023

SCALE:

N/A

ZONE A1

- SIDEWALKS CURB/GUTTER AND DRIVEWAY FOR 6107 12TH RD N CONSTRUCTION NORTH OF 12TH ROAD N**
- MAINTAIN A MINIMUM 10' TRAVEL LANE ON BOTH EB AND WB 12TH ROAD, AND USE TTC-5.2 FOR THE PROPOSED WORK.
 - PERFORM SIDEWALK CLOSURE PER TTC-35.1. SIDEWALK CLOSED (R9-9) SIGNS SHALL BE PLACED ON BOTH ENDS OF THE CLOSED 12TH ROAD SIDEWALK WHILE SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11L) SIGN SHALL BE PLACED AT THE NW QUADRANT OF N OHIO ST/12TH RD N INTERSECTION BEFORE THE WEST LEG CROSSWALK DURING THE SIDEWALK CLOSURE. ANOTHER SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11R) SHALL BE PLACED AT THE NE QUADRANT OF 12TH RD N/N POWHATAN ST INTERSECTION BEFORE THE EAST LEG CROSSING ADA WHEELCHAIR RAMP.
 - WORK AREA SHALL BE PROTECTED WITH 4' TYPE III BARRICADES AND/OR TRAFFIC DRUMS.

ZONE A2

- MEDIAN REFUGE ISLAND REMOVAL AND 11TH ROAD/12TH ROAD SOUTHWEST QUADRANT CURB RAMP CONSTRUCTION**
- CHANNELIZED RIGHT TURN LANE FROM 12TH ROAD TO 11TH ROAD SHALL BE CLOSED AND PROTECTED WITH TYPE III BARRICADES.
 - MAINTAIN A MINIMUM 10' TRAVEL LANE ON BOTH 11TH ROAD AND 12TH ROAD AND USE TTC-5.2 FOR THE PROPOSED WORK.
 - PERFORM SIDEWALK CLOSURE PER TTC-35.1. SIDEWALK CLOSED (R9-9) SIGNS SHALL BE PLACED ON BOTH ENDS OF THE CLOSED 12TH ROAD SIDEWALK, WHILE SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11L) SIGN SHALL BE PLACED AT THE SE QUADRANT OF 12TH RD N/N POWHATAN ST INTERSECTION BEFORE THE EAST LEG CROSSWALK DURING THE SIDEWALK CLOSURE. ANOTHER SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11R) SIGN SHALL BE PLACED AT THE SW QUADRANT OF 11TH RD N/12TH ST N INTERSECTION.
 - WORK AREA SHALL BE PROTECTED WITH TYPE III BARRICADES, TYPE B LIGHTS, AND TRAFFIC DRUMS.

ZONE B

- N OHIO STREET NORTHWEST QUADRANT AND WEST TRAIL CONSTRUCTION**
- CLOSE EXISTING BIKE LANE AT NW QUADRANT OF N OHIO ST/12TH RD N FOR CURB RAMP CONSTRUCTION.
 - PROVIDE TEMPORARY PAVEMENT MARKINGS AT THIS LOCATION TO DIVERT BIKE LANE PER THE FINAL CONFIGURATION.
 - MAINTAIN TRAFFIC AT ALL TIMES.
 - MAINTAIN A MINIMUM 10' TRAVEL LANE ALONG BOTH WB 12TH ROAD AND SB OHIO ST PER TTC-5.2 FOR THE PROPOSED WORK.
 - PERFORM SIDEWALK CLOSURE PER TTC-35.1. SIDEWALK CLOSED (R9-9) SIGNS SHALL BE PLACED ON EITHER END OF THE CLOSED SIDEWALK SEGMENT ALONG 12TH ROAD N AND N OHIO STREET. SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11L) SIGN SHALL BE PLACED AT THE SW QUADRANT OF N OHIO ST/14TH ST N INTERSECTION BEFORE THE SOUTH LEG CROSSWALK DURING THE SIDEWALK CLOSURE. ANOTHER SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11R) SHALL BE PLACED AT THE NE QUADRANT OF 12TH RD N/N POWHATAN ST INTERSECTION BEFORE THE EAST LEG CROSSING ADA WHEELCHAIR RAMP.
 - PERFORM CROSSWALK CLOSURE PER TTC-36.2 ON AS-NEEDED BASIS. CROSSWALK CLOSED - USE OTHER SIDE WITH LEFT AND/OR RIGHT ARROW(S) (R9-10(MOD)) SIGN SHALL BE USED TO DIVERT PEDESTRIANS/BICYCLISTS THROUGH ADJACENT CROSSWALKS. ONLY ONE CROSSWALK SHALL BE CLOSED AT A TIME.
 - SIDEWALK CLOSED (R9-9) SIGN SHALL BE PLACED AT W&OD TRAIL SPLIT NEAR N POWHATAN ST CUL-DE-SAC. PEDESTRIANS WILL BE RE-ROUTED ALONG W&OD TRAIL TO ENTRANCE AT N FOUR MILE RUN DR CUL-DE-SAC.
 - WORK AREA SHALL BE PROTECTED WITH 4' TYPE III BARRICADES AND/OR TRAFFIC DRUMS.

ZONE C1

- N OHIO STREET EAST SEGMENT CONSTRUCTION**
- MAINTAIN TEMPORARY PAVEMENT MARKINGS CONFIGURATION FROM ZONE B IN THIS AREA AND CLOSE NB BIKE LANE ON N OHIO ST
 - MAINTAIN TRAFFIC AT ALL TIMES.
 - CLOSE EXISTING TRAIL AND SIDEWALKS DURING CONSTRUCTION
 - PERFORM SIDEWALK CLOSURE PER TTC-35.1. SIDEWALK CLOSED (R9-9) SIGN SHALL BE PLACED ON THE SOUTH END OF THE CLOSED N OHIO ST SIDEWALK WHILE SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11L) SIGN SHALL BE PLACED AT THE NE QUADRANT OF N MCKINLEY RD/10TH RD N INTERSECTION BEFORE THE NORTH LEG CROSSING DURING THE SIDEWALK CLOSURE. ANOTHER SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11R) SHALL BE PLACED AT THE SE QUADRANT OF N OHIO ST/14TH RD N INTERSECTION BEFORE THE SOUTH LEG CROSSING ADA WHEELCHAIR RAMP.
 - PERFORM CROSSWALK CLOSURE PER TTC-36.2 ON AS-NEEDED BASIS. CROSSWALK CLOSED - USE OTHER SIDE WITH LEFT AND/OR RIGHT ARROW(S) (R9-10(MOD)) SIGN SHALL BE USED TO DIVERT PEDESTRIANS/BICYCLISTS THROUGH ADJACENT CROSSWALKS
 - WORK AREA SHALL BE PROTECTED WITH 4' TYPE III BARRICADES AND/OR TRAFFIC DRUMS.
 - THE CURB BUMP-OUT FOR THIS ZONE SHALL NOT BE CONSTRUCTED CONCURRENTLY WITH THE CURB BUMP-OUT FOR ZONE C3.

ZONE C2

- N OHIO STREET PEDESTRIAN ISLAND CONSTRUCTION**
- PERFORM LANE SHIFT ON NB AND SB OHIO ST UTILIZING TTC-5.2 DURING OFF-PEAK HOURS FOR THE PROPOSED WORK.
 - R4-11 (BIKE MAY USE FULL LANE) SIGN SHALL BE ATTACHED TO W9-3R, W9-2R, AND W4-2L SIGNS AS PART OF LEFT LANE CLOSURE DURING CONSTRUCTION TO DIVERT THE BICYCLIST TO MERGE ONTO THE OPEN LANE.
 - UPON COMPLETION, INSTALL R4-7 SIGN ON BOTH SIDES OF THE RAISED MEDIAN PRIOR TO LEAVING THE WORK SITE FOR THE DAY.
 - REMOVE EXISTING PARKING AND STRIPED-OFF AREA, AND REMOVE EXISTING PAVEMENT MARKINGS BETWEEN STA 11+11 TO STA 11+35.
 - PROVIDE 11' TRAVEL LANE AND DIVERT BIKE LANE THROUGH TEMPORARY PAVEMENT MARKINGS PRIOR TO STARTING THE RAISED MEDIAN CONSTRUCTION.
 - MAINTAIN TRAFFIC AND ACCESS TO BIKE LANE AT ALL TIMES.

ZONE C3

- 12TH ROAD SOUTH SEGMENT CONSTRUCTION**
- CLOSE THE SOUTH SEGMENT ON 12TH RD N BETWEEN N OHIO ST AND 11TH RD N USING TTC-5.2 FOR THE PROPOSED WORK.
 - CLOSE SB BIKE LANE ON N OHIO ST
 - MAINTAIN A MINIMUM 10' TRAVEL LANE FOR BOTH EB AND WB 12TH RD N DURING CONSTRUCTION.
 - PERFORM SIDEWALK CLOSURE PER TTC-35.1 ON AS NEEDED BASIS. SIDEWALK CLOSED (R9-9) SIGNS SHALL BE PLACED ON BOTH ENDS OF THE CLOSED 12TH ROAD SIDEWALK WHILE SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11L) SIGN SHALL BE PLACED AT THE SE CORNER OF THE 11TH RD N/12TH ST N INTERSECTION BEFORE THE SOUTH LEG CROSSING DURING THE SIDEWALK CLOSURE. ANOTHER SIDEWALK CLOSED AHEAD - CROSS HERE (R9-11R) SHALL BE PLACED AT THE SW QUADRANT OF N MCKINLEY RD/10TH RD N INTERSECTION BEFORE THE SOUTH LEG CROSSING ADA WHEELCHAIR RAMP
 - PERFORM CROSSWALK CLOSURE PER TTC-36.2 ON AS-NEEDED BASIS. CROSSWALK CLOSED - USE OTHER SIDE WITH LEFT AND/OR RIGHT ARROW(S) (R9-10(MOD)) SIGN SHALL BE USED TO DIVERT PEDESTRIANS/BICYCLISTS THROUGH ADJACENT CROSSWALKS.
 - WORK AREA SHALL BE PROTECTED WITH TYPE III BARRICADES AND/OR TRAFFIC DRUMS.
 - THE CURB BUMP-OUT FOR THIS ZONE SHALL NOT BE CONSTRUCTED CONCURRENTLY WITH THE CURB BUMP-OUT FOR ZONE C1.

ZONE D

- 12TH ROAD SOUTH SEGMENT FULL DEPTH RECONSTRUCTION**
- PERFORM FLAGGING OPERATION USING TTC -23.2 DURING OFF-PEAK HOURS TO CONSTRUCT THE FULL DEPTH PAVEMENT SEGMENT
 - FLAGGERS AND ADVANCE WARNING SIGNS SHALL BE PROVIDED FOR NB AND SB OHIO ST, 11TH RD N, AND 12TH RD N.
 - OPEN 12TH RD N BETWEEN N OHIO ST AND 11TH RD N AT THE END OF EACH WORK DAY.

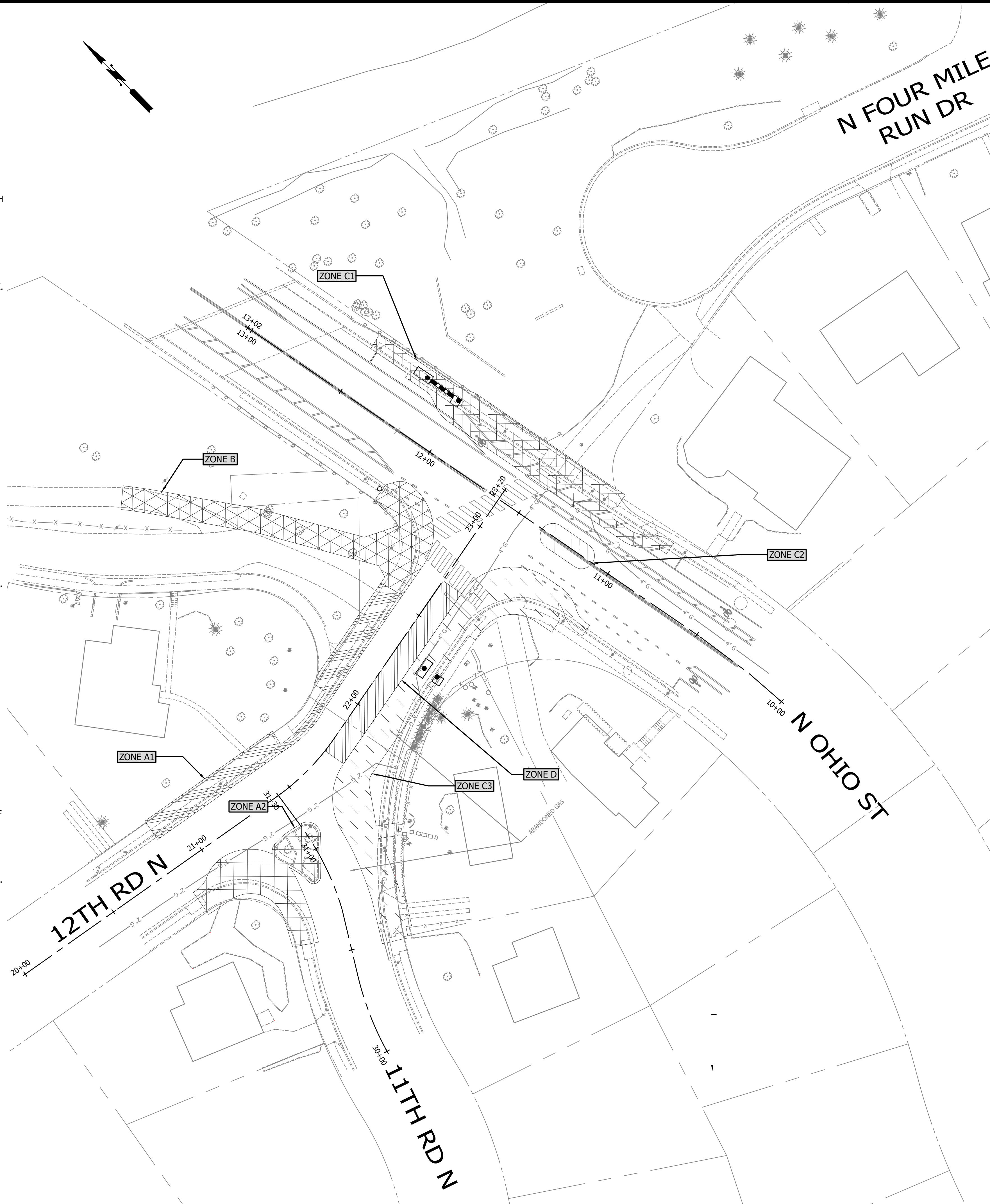
ZONE E

(NOT SHOWN)
SEE PLAN FOR MORE DETAILS

ZONE F

(NOT SHOWN)
SEE SIGN AND MARKING PLAN FOR MORE DETAILS

- PAVEMENT MILLING/OVERLAY OPERATION**
- PERFORM SINGLE LEFT- AND RIGHT-LANE MOVING OPERATION PER TTC-13.2 FOR THE PROPOSED WORK.
 - PERFORM CROSSWALK CLOSURE PER TTC-36.2 AND DIVERT PEDESTRIANS/BICYCLISTS THROUGH ADJACENT CROSSWALKS.
 - PERFORM MILLING/OVERLAY OPERATION PER TTC-57.2 AT THE END OF THE DAY.
- PAVEMENT MARKING ERADICATION AND INSTALLATION WORK PER SIGN AND MARKING PLAN**
- PERFORM SINGLE LEFT- AND RIGHT-LANE MOVING OPERATION PER TTC-13.2 FOR THE PROPOSED WORK.
 - PERFORM CROSSWALK CLOSURE PER TTC-36.2 AND DIVERT PEDESTRIANS/BICYCLISTS THROUGH ADJACENT CROSSWALKS.



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Professional Engineer Seal for Harshit Thaker, License No. 049174, dated 12/7/2023.

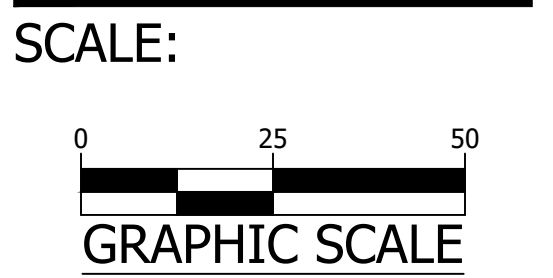
APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
 D485
 MAINTENANCE OF TRAFFIC - 01 MOT PLAN

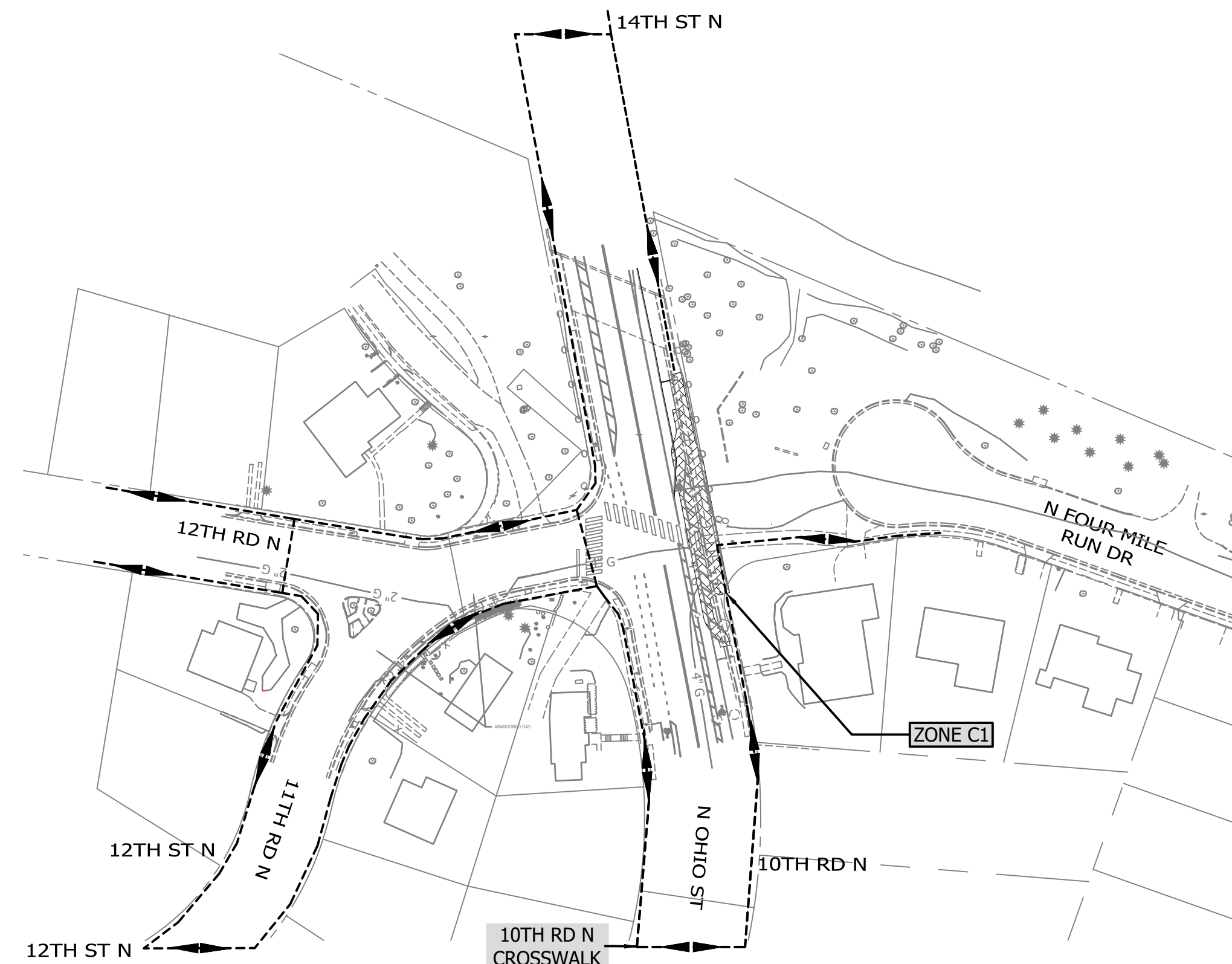
DESIGNED: MS
 DRAWN: MS
 CHECKED: HT

PLOTTED: DECEMBER 21, 2023

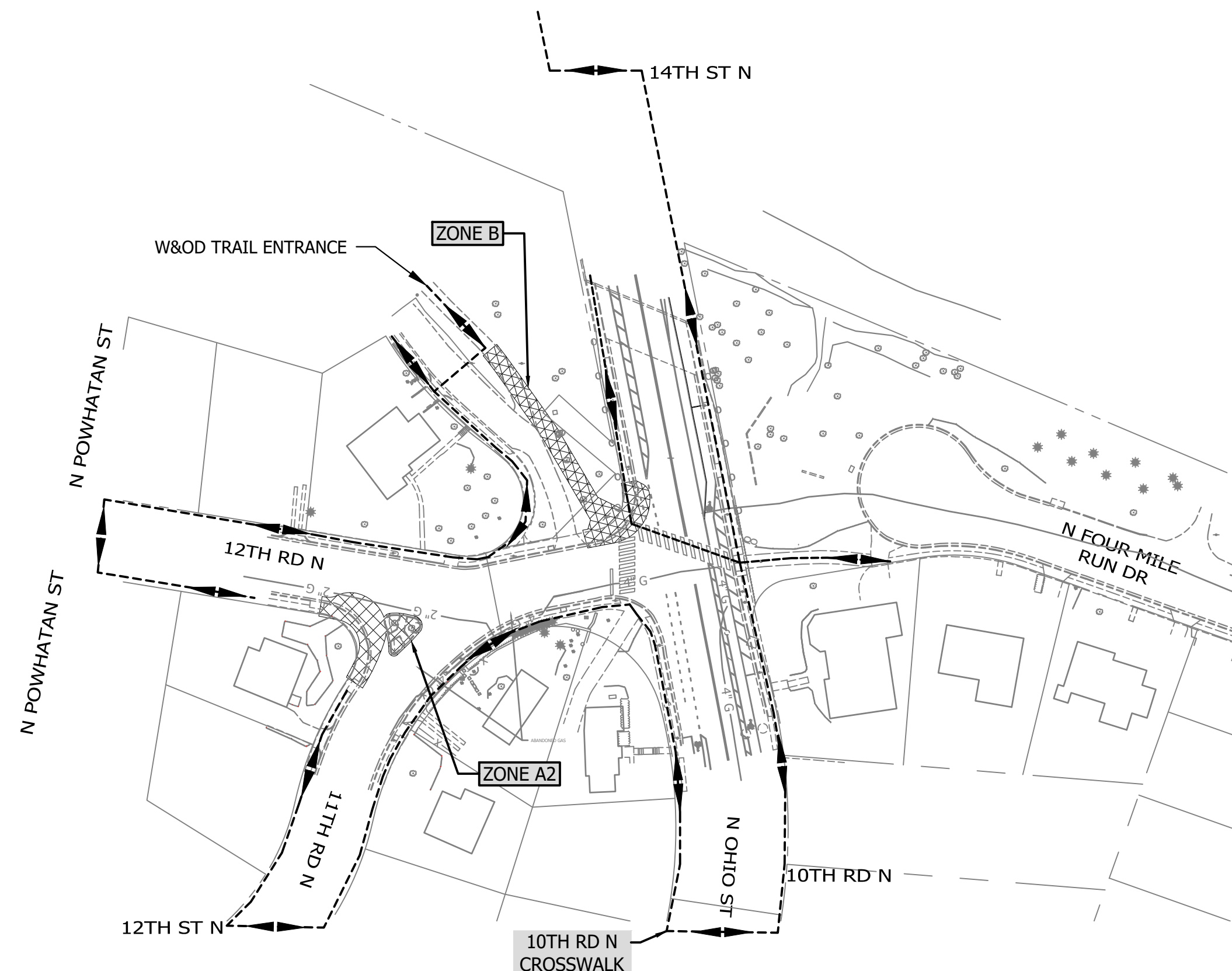




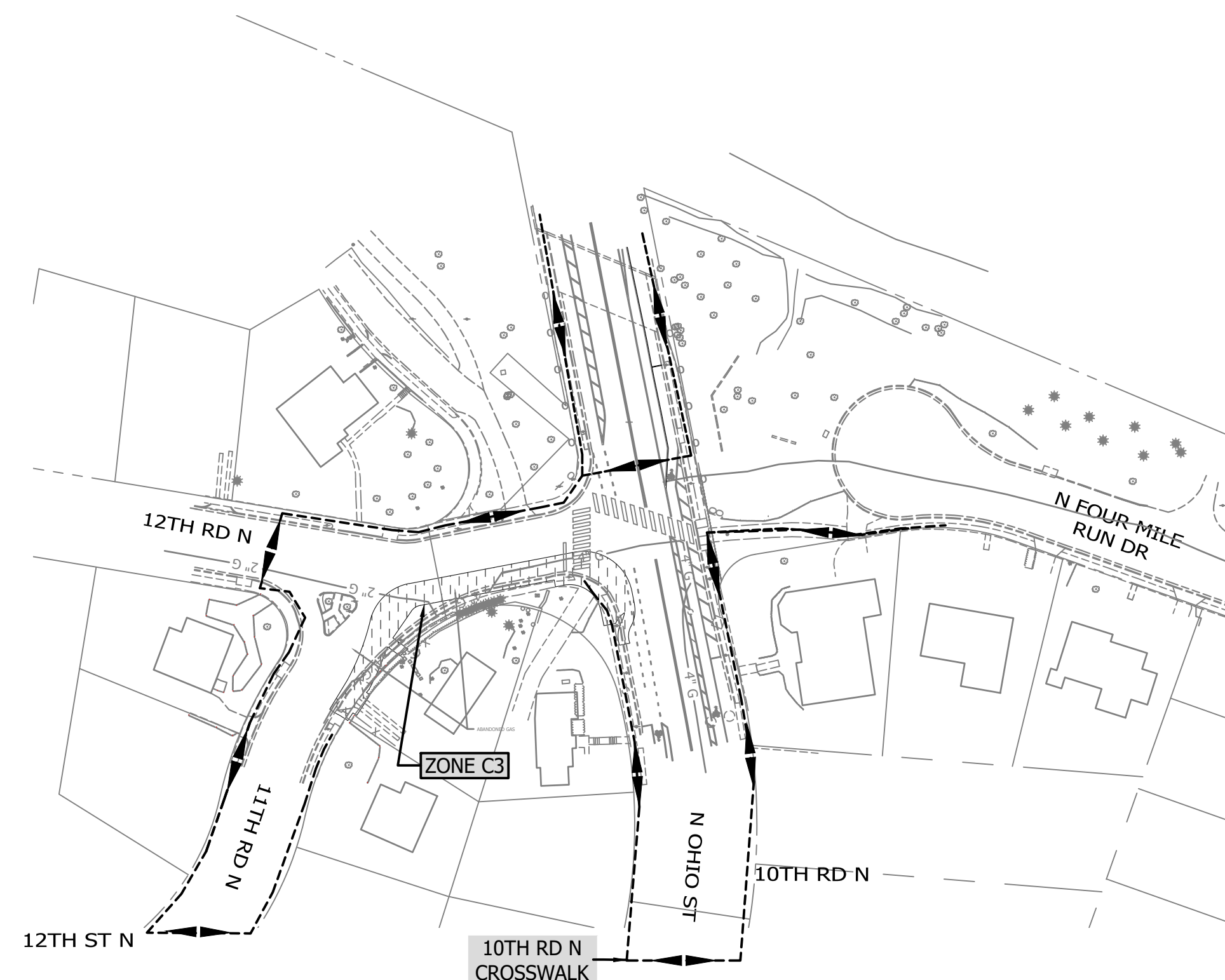
PEDESTRIAN DETOUR FOR ZONE A1



PEDESTRIAN DETOUR FOR ZONE C1



PEDESTRIAN DETOUR FOR ZONES A2 AND B



PEDESTRIAN DETOUR FOR ZONE C3

LEGEND

PEDESTRIAN PATH

SEAL



APPROVALS	DATE
<i>[Signature]</i>	1/11/2024
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/11/2024
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	1/12/2024
ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION

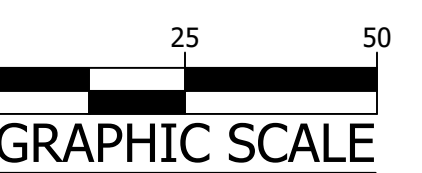
D485

MAINTENANCE OF TRAFFIC - 02 MOT PLAN

DESIGNED: MS
 DRAWN: MS
 CHECKED: HT

PLOTTED: DECEMBER 21, 2023

SCALE:



Page 6H-16 September 2019

Typical Traffic Control Shoulder Operation with Minor Encroachment (Figure TTC-5.2)

NOTES

Standard

- For required sign assemblies for multi-lane roadways see Note 1, TTC-4.1

Guidance

- Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
- When work takes up part of a lane on a high volume roadway; vehicular traffic volumes, vehicle mix, speed and capacity should be analyzed to determine whether the affected lane should be closed. Unless the lane encroachment analysis permits a remaining lane width of 10 feet, the lane should be closed. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet.

Option:

- The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

Standard:

- A shadow vehicle with either an arrow board operating in the caution mode, or at least one high-intensity amber rotating, flashing, or oscillating light shall be parked 80' - 120' in advance of the first work crew.
- Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating lights.
- Taper length (L) and channelizing device spacing shall be at the following:

Taper Length L					
Speed Limit (mph)	9	10	11	12	Remarks
25	85	105	115	125	L=S/W80
30	135	150	165	180	L=S/W80
35	185	205	225	245	L=S/W80
40	240	270	295	320	L=S/W80
45	495	450	495	540	L=S/W

Channelizing Device Spacing					
Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)
Transition	0-35	40'	36*	40'	80'
Travelway	40'	36*	40'	36*	80'

Limited Access highways shall use a 1000' merging taper regardless of the posted speed, a 750' shifting taper for posted speeds < 65 mph and a 1000' shifting taper for posted speeds ≥ 65 mph.²

Shoulder Taper = 1/4 L Minimum

8. Channelizing device spacing shall be at the following:

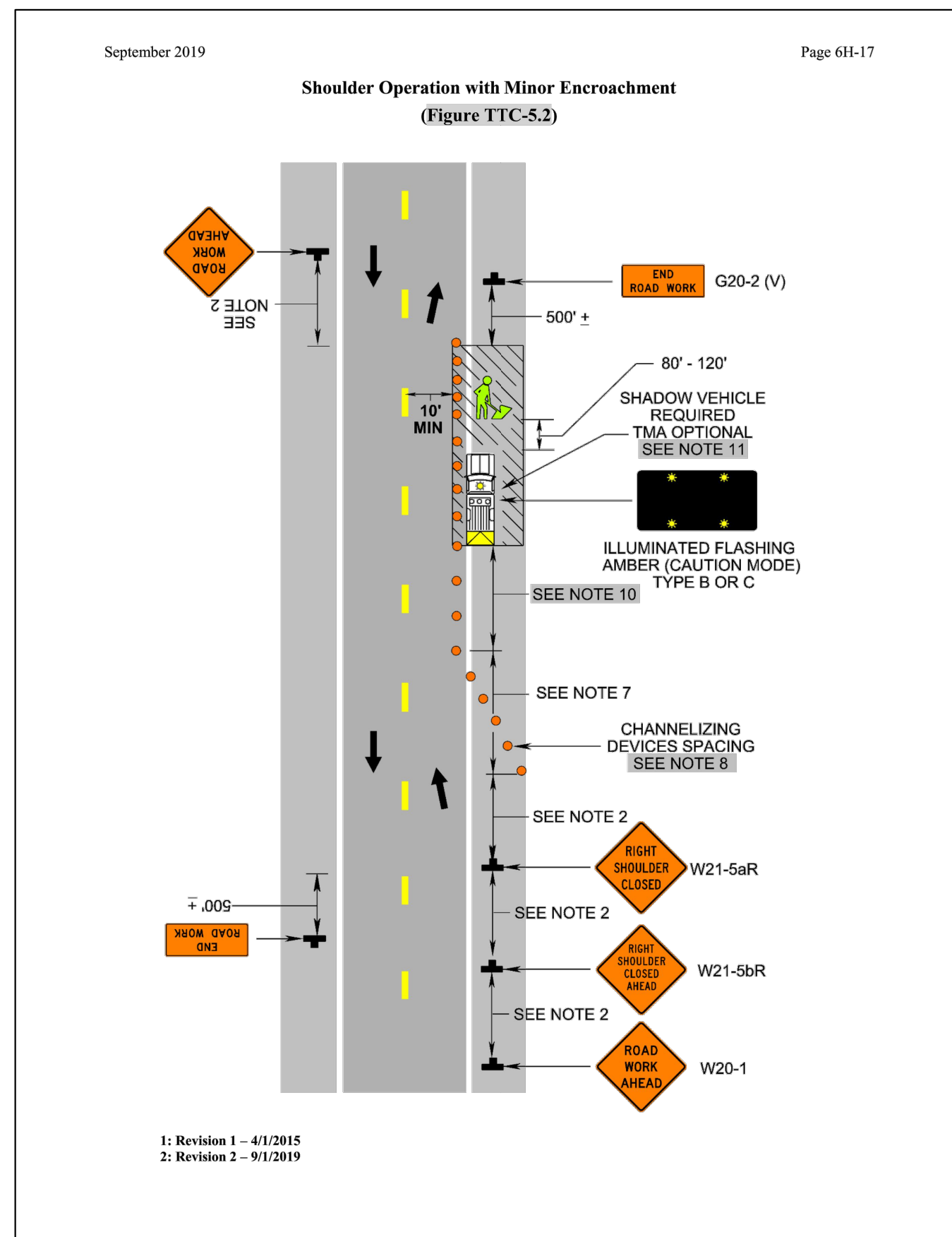
9. On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.¹

10. The buffer space length TMA shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.

11. A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.

12. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019



Page 6H-34 September 2019

Typical Traffic Control Moving/Mobile Operations on a Multi-Lane Roadway (Figure TTC-13.2)

NOTES

Standard:

- Each vehicle involved in the moving/mobile operation shall be equipped with at least one high-intensity amber rotating, flashing, or oscillating light. Illuminated flashing arrows on the shadow vehicles and work operations vehicle shall be a Type B (60" x 30") or Type C (96" x 48"). Vehicle hazard warning signals shall not be used instead of rotating, flashing, or oscillating lights, but as a supplement.
- Each vehicle involved in the moving operation shall have radio communications between vehicles.²

Option:

- If the work operations vehicle is a motorized piece of equipment, such as a motor grader, grade-all, etc., the illuminated flashing arrow will not be required.
- The static warning sign and arrow board may be replaced with a vehicle-mounted CMS with a minimum character height of 10".
- Arrow direction and designation may change as needed.

Guidance:

- Spacing between vehicles may vary, depending on the speed, sight distance, and type of moving operation. Whenever adequate stopping sight distance exists to the rear, the shadow vehicle should maintain the minimum distance and proceed at the same speed as the work operation vehicle. The shadow vehicle should slow down in advance of vertical or horizontal curves that restrict sight distance.
- Actual conditions could dictate more traffic control device needs in the operation. On high speed, high volume roads, a shadow vehicle on the shoulder with an arrow board and sign should be used. Also, in certain situations, appropriate stationary signing (SPRAYING NEXT 5 MILES (W21-15)) could be used to further enhance safety.

Standard:

- If Shadow Vehicle 1 cannot run completely on the shoulder and is partially in the travel lane, it shall be equipped with a truck-mounted attenuator (TMA).
- When the work operations vehicle is stationary, Shadow Vehicle 2 following the work operations vehicle shall be in a position 80'-120' in advance of the work operations vehicle to provide protection. When the work operations vehicle is moving, Shadow Vehicle 2 following the work operations vehicle shall follow at a distance of 240'.

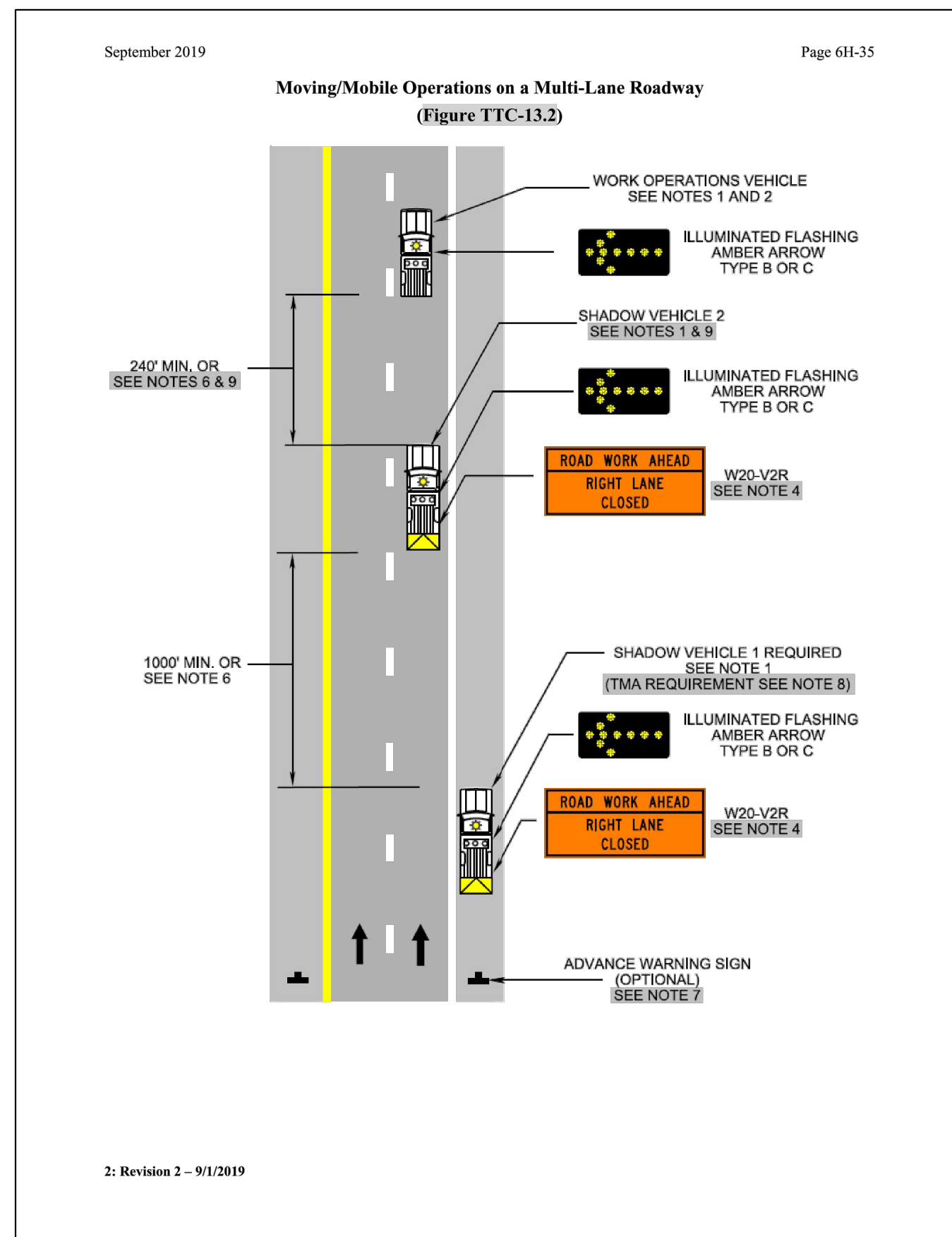
Option:

- For inside lane closure operations, Shadow Vehicle 1 may be positioned on the right shoulder without arrow designation but displaying the caution mode.
- When the operation is completely off the travelway, only one shadow vehicle will be required. A truck-mounted attenuator will not be required. The second line of the sign message shall be changed to "Right Shoulder" and the arrows shall be changed to the four corner caution mode.

Guidance:

- When using a vehicle-mounted CMS to replace the static sign and arrow board, each word message phase should be followed by the Type B arrow display.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019



Page 6H-54 September 2019

Typical Traffic Control Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)

NOTES

Guidance:

- Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.
- Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.
- To maintain efficient traffic flow in a flagging operation on a two-lane roadway, the maximum time motorists should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07.²

Standard:

- Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6F.99.
- Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).
- All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).
- Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.¹
- A shadow vehicle with at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew.

Option:

- A SLOW (W21-V10) sign³ may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

Guidance:

- If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the PTRS should be readjusted at greater distances.
- When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).

Standard:

- At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).

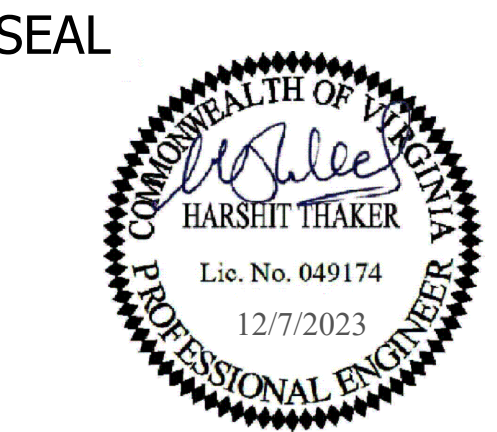
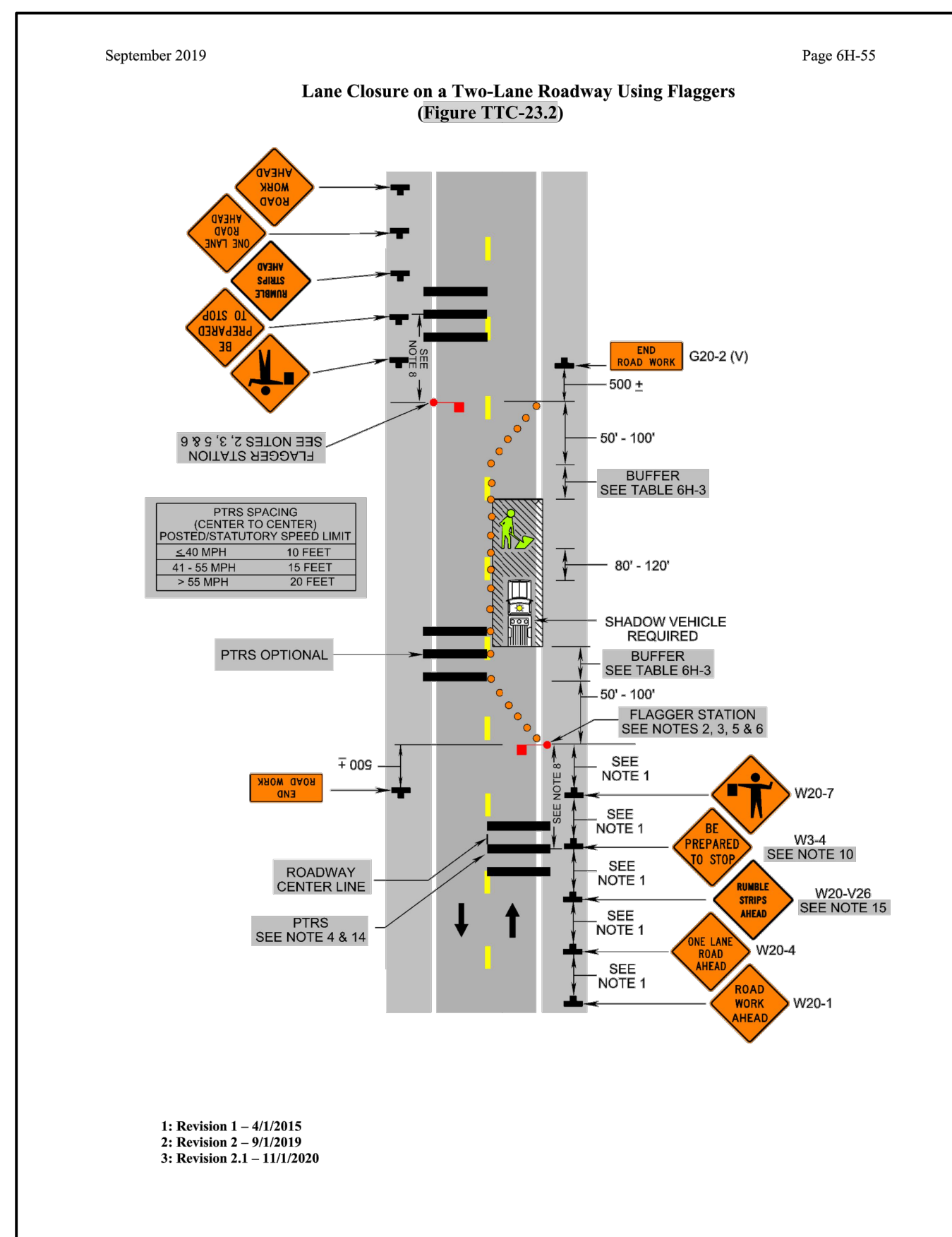
Option:

- Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
- For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

Standard:

- When used², three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019



APPROVALS	DATE
<i>[Signature]</i> DESIGN TEAM ENGINEER SUPERVISOR	1/11/2024
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/12/2024
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/11/2024
<i>[Signature]</i> ENGINEERING BUREAU CHIEF	1/12/2024
Kyle Kling PROJECT MANAGER	12/18/2023

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D485
MOT TTC DETAILS - 1

DESIGNED: MS
DRAWN: MS
CHECKED: HT
PLOTTED: DECEMBER 21, 2023

SCALE:
NOT TO SCALE

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Typical Traffic Control
Lane Closure Operation in an Intersection
(Figure TTC-28.2)
NOTES

Guidance:

- The control of traffic through the intersection in order of preference should be:
 - Obtain the services of law enforcement personnel.
 - Detour the effective routes to other roads and streets as approved and directed by the District Traffic Engineer.
 - Place a state certified flagger on each leg of the intersection controlling a single lane of traffic. Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34.
 - To maintain efficient traffic flow in a flagging operation on a two-lane roadway the maximum time a motorist should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 66.07.

Standard:

- Channelizing device spacing shall be on 20' centers or less.
- PTRS shall be used as noted in Section 6F.99.

Guidance:

- If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscillating light should be parked 80'-120' in advance of the first work crew.

Standard:

- For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.

Guidance:

- If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

Support:

- Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Page 611-78 September 2019

Typical Traffic Control
Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.1)
NOTES

Standard:

- When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

Guidance:

- Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
- Temporary markings should be considered for operations exceeding three days in duration.

Option:

- Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
- For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
- Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.

Standard:

- All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.

2: Revision 2 - 9/1/2019

Page 611-80 September 2019

Typical Traffic Control
Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.2)
NOTES

Standard:

- When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
- Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.

Guidance:

- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
- Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.
- Temporary markings should be considered for operations exceeding three days in duration.

Option:

- Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
- For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.

Standard:

- In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones.
- All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.

Support:

- Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD for crosswalk lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.

Standard:

- The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line.
- Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Page 611-122 July 2019

Typical Traffic Control
End of Day Signing for Partial Paving Operations on a Multi-Lane Roadway
(Figure TTC-57.2)
NOTES

Standard:

- On divided highways having a median wider than 8', right and left sign assemblies shall be used. Median barrier is considered to be part of the shoulder and its measurement shall be used to determine the total width of the shoulder.
- The maximum pavement edge drop-off between traffic lanes shall be 2 inches or less.
- Open travel lane(s) shall not be exposed to more than 2 to 3 mile sections of milled or uneven surface.
- A portable changeable message sign with "ROUGH ROAD AHEAD" and other appropriate messages shall be used.
- A BUMP (W8-1) sign shall be placed in advance of the end of the pavement drop-off.
- The District Traffic Engineer shall determine speed reductions.
- The UNEVEN LANES (W8-11), STAY IN LANE (R4-9), and BUMP signs shall be adjusted daily with the work operation and their sign stand shall be supported with a sand bag weighing approximately 25-pounds on each leg or two (2) drum collar weights positioned on the center of the sign stand. Additional UNEVEN LANES signs shall be installed every 2 miles and on entrance ramps.
- Where conditions warrant, ROUGH ROAD (W8-8) and BUMP signs shall be installed 500' ± in advance of unaffected roadway surface on exit ramps, and BUMP signs shall be installed 500' ± in advance of unaffected roadway surface on exit ramps.
- All signs shall be post-mounted at locations after 72 consecutive hours of non-work activities.

Guidance:

- Sign spacing distance should be 1300'-1500' for Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.

Option:

- Only traffic control signing for partial pavement resurfacing is shown. Other devices may be used for the control of traffic through the work area.
- Temporary pavement markers spaced at 10 foot centers for two-way traffic centerlines or three per skip line for lane division lines may be added as directed by the engineer.
- The LOW SHOULDER (W8-9) sign may be used to warn of a shoulder condition where there is an elevation difference of less than 2 inches between the shoulder and the travel lane.

Standard:

- If used, the LOW SHOULDER sign shall be repeated at 1 mile intervals if the condition extends over a distance in excess of 1 mile.
- The SHOULDER DROP OFF (W8-V5) sign shall be used when an unprotected shoulder drop-off, adjacent to the travel lane, exceeds 2 inches depth between the shoulder and the travel lane. Where the condition extends over a distance in excess of 1 mile, the sign shall be repeated at 1 mile intervals.

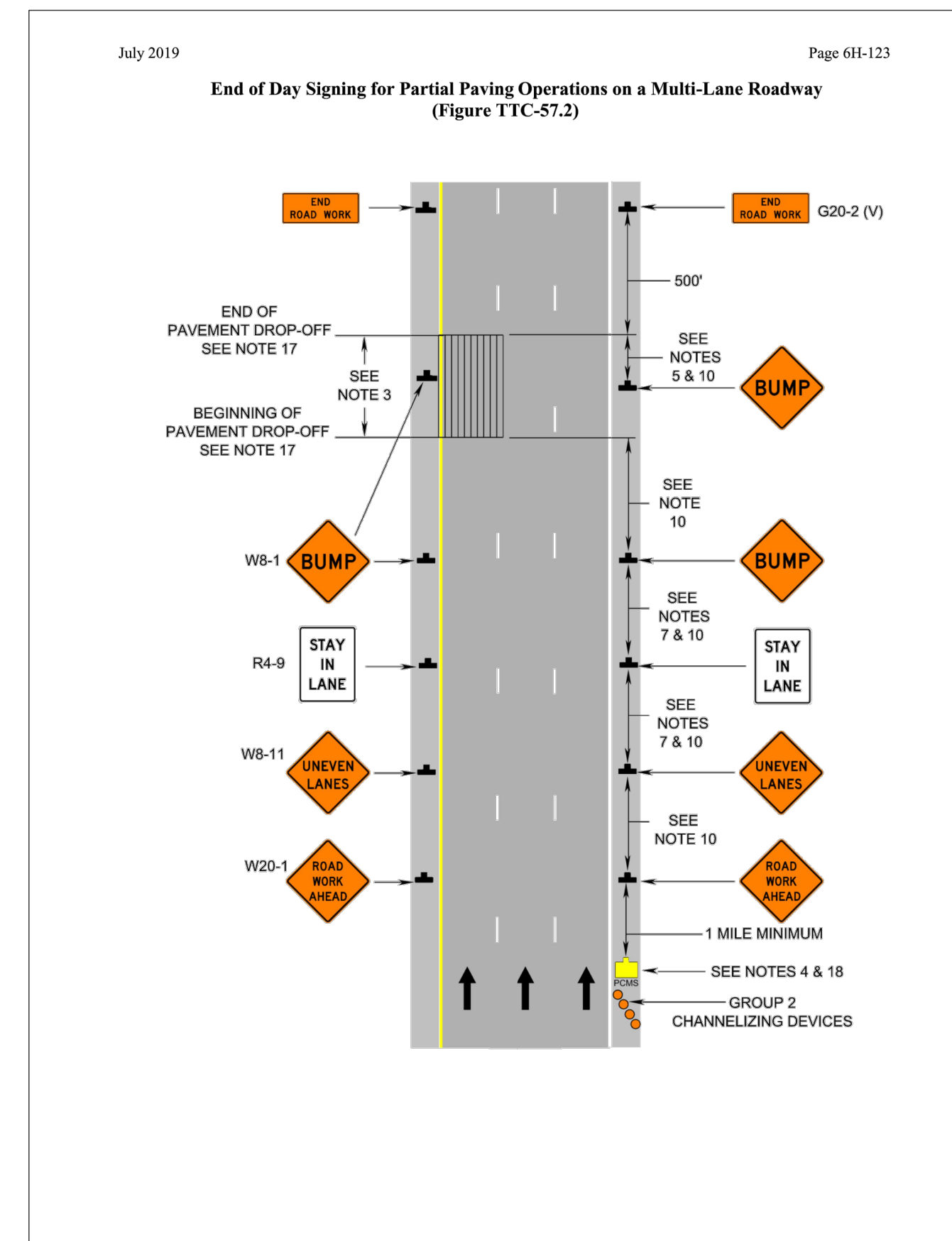
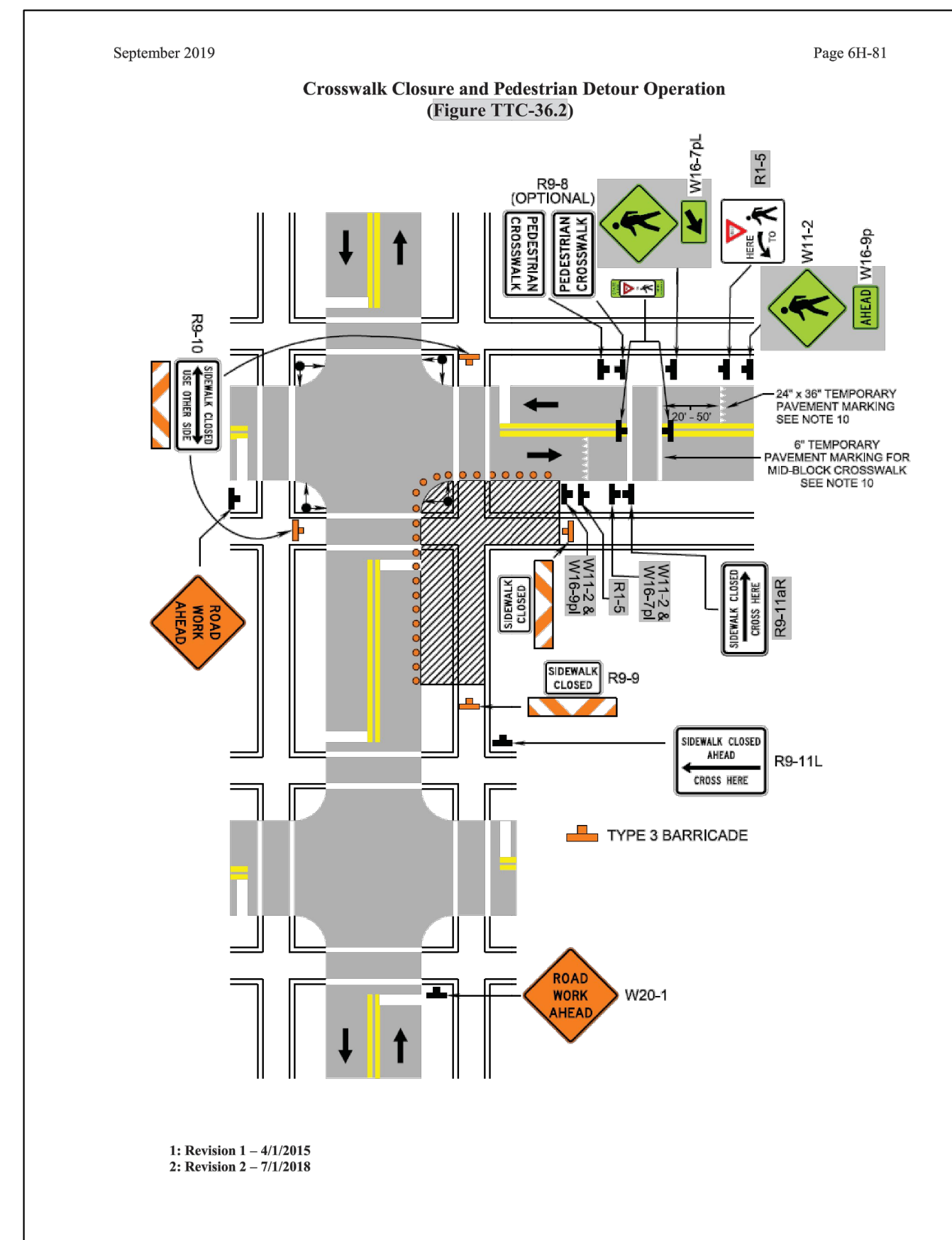
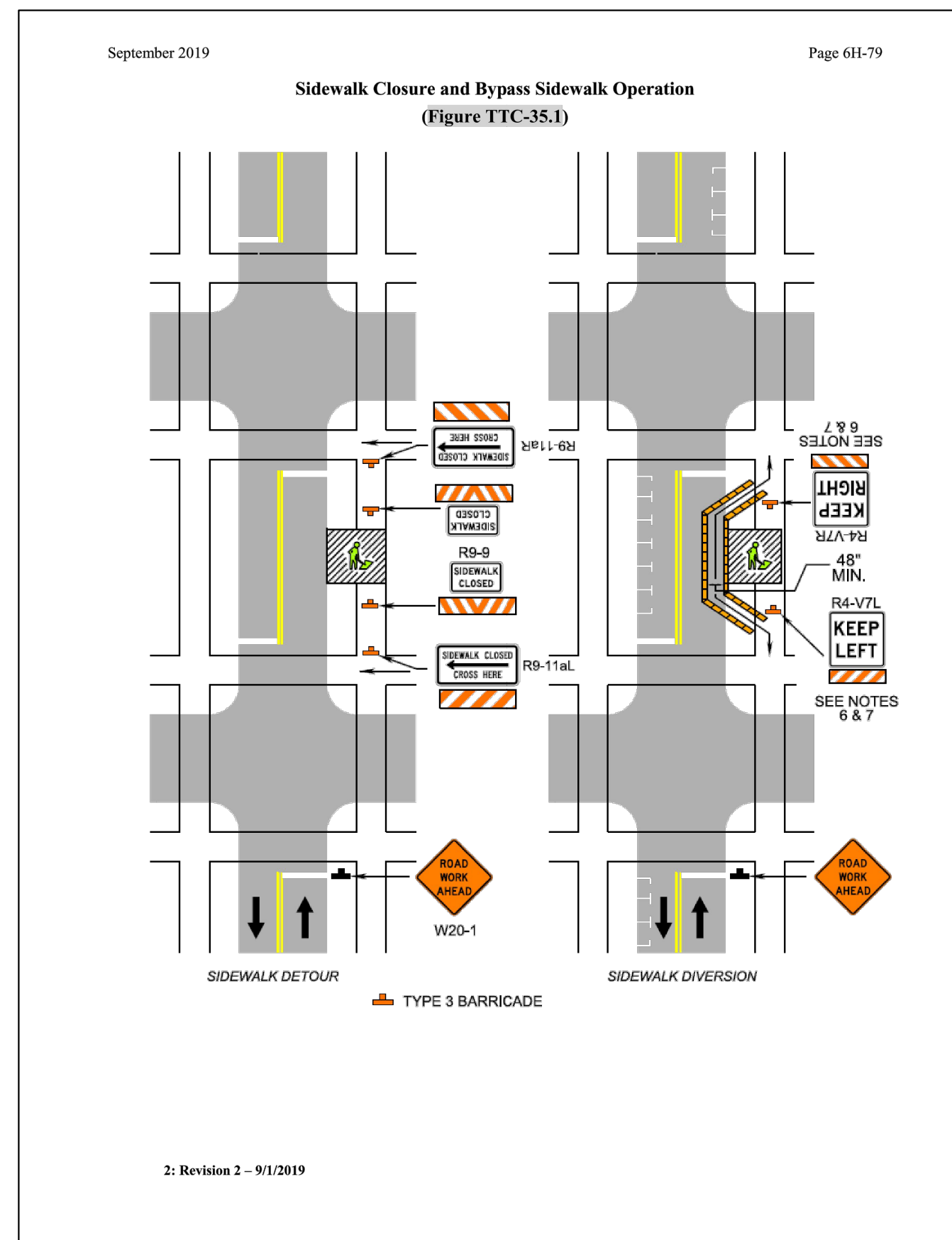
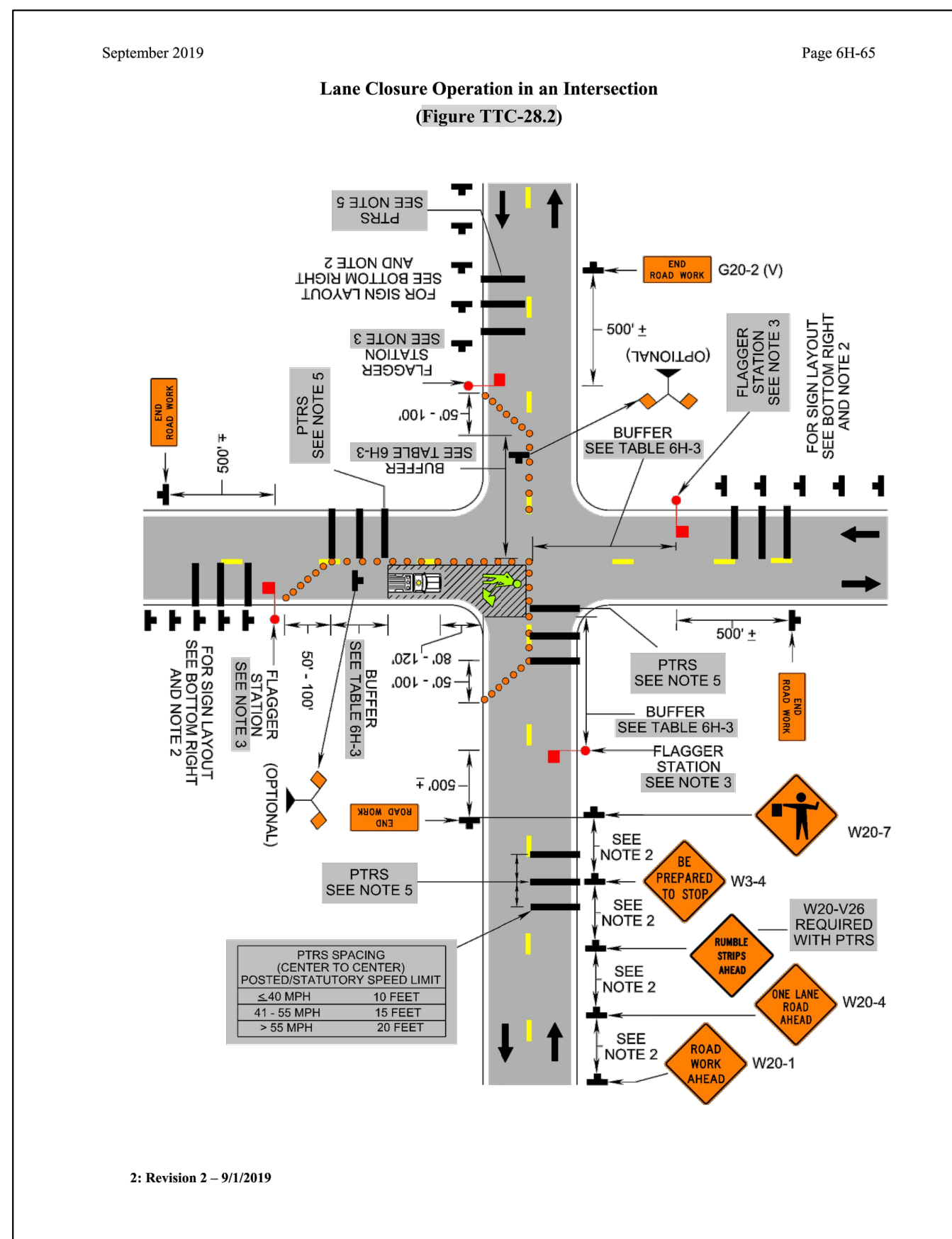
Option:

- The SHOULDER DROP OFF sign may be eliminated if a 6:1 (desirable) to 4:1 (minimum) wedge is used between the travel lane and the shoulder.

Standard:

- A temporary pavement wedge shall be constructed of surface mix asphalt a minimum of three (3) feet in length for every inch of depth of pavement milling on the approach and departure end of the milled travel lane(s). Refer to Standard ACOT-1 of the Road and Bridge Standards for details.
- A minimum of four (4) drum channelizing devices shall be placed on the shoulder in advance of the PCMS in a taper for delineation (see Figure 6F-6).

1: Revision 1 - 4/1/2015; 2: Revision 2 - 9/1/2019



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SEAL

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<i>[Signature]</i>	1/12/2024
CONSTRUCTION MANAGEMENT SUPERVISOR	
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WATER, SEWER, STREETS BUREAU CHIEF	
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ENGINEERING BUREAU CHIEF	
Kyle Kling	12/18/2023
PROJECT MANAGER	

REVISIONS	DATE

N OHIO ST AND 12TH RD N INTERSECTION
D48S

MOT TTC DETAILS - 2

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DRAWN: MS
CHECKED: HT
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