



ROANOKE COUNTY

Purchasing Division

5204 Bernard Drive, Suite 300-F, P.O. Box 29800
Roanoke, Virginia 24018-0798
TEL: (540) 772-2061 FAX: (540) 772-2074

July 26, 2024

ADDENDUM NO. 1 TO ALL BIDDERS:

Reference – IFB 2025-012

Description: Glade Creek Greenway Vinyard Park West

Issue Date: July 23, 2024

Proposal Due: September 3, 2024

The above Project is hereby changed as addressed below:

1. Project Plans: approved plan set provided as an attachment to this Addendum 1 to IFB 2025-012 (18 pages). These plans shall be the basis for the project scope and specifications, and should be referenced by prospective Bidders when preparing their bid submission.

Note: A signed acknowledgment of this addendum must be received at the location indicated on the original solicitation either prior to the proposal due date or attached to your proposal. Signature on this addendum does not substitute for your signature on the original proposal/bid document. The original proposal/bid document must be signed.

Thank you,

Kate Hoyt

Phone: (540) 283-8149

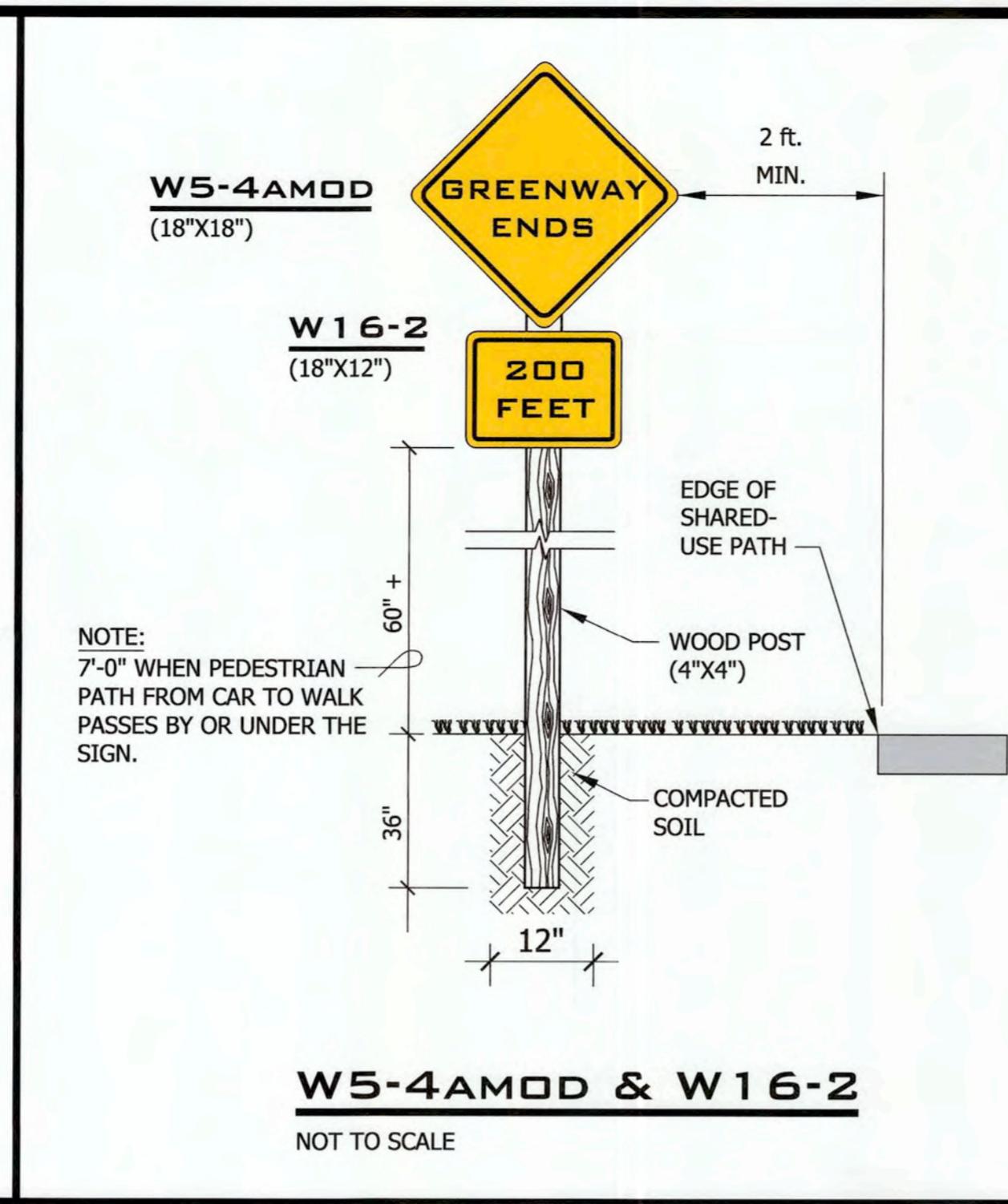
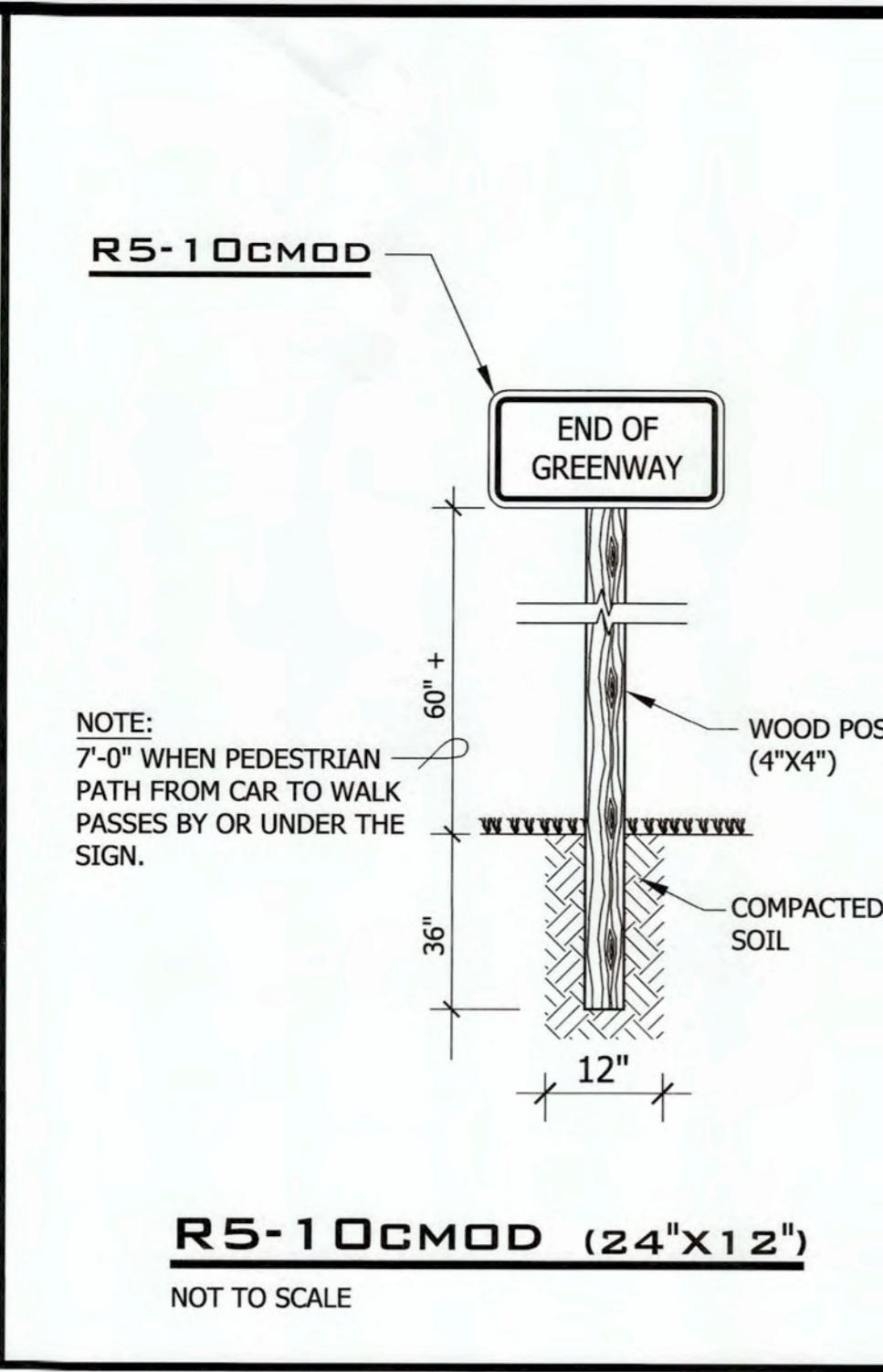
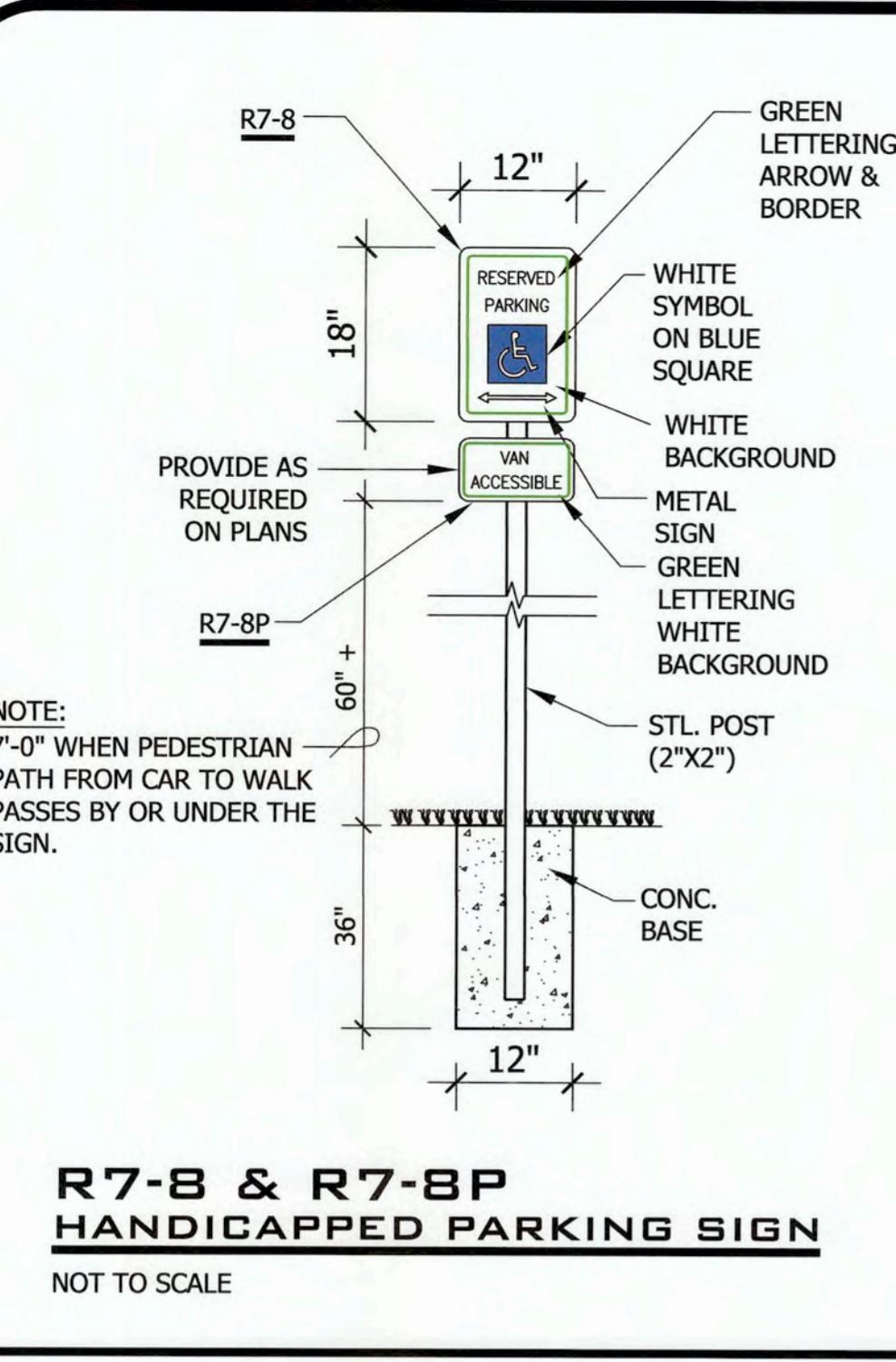
KHoyt@roanokecountyva.gov

Sign Name:

Print Name:

Name of Firm:

Date:

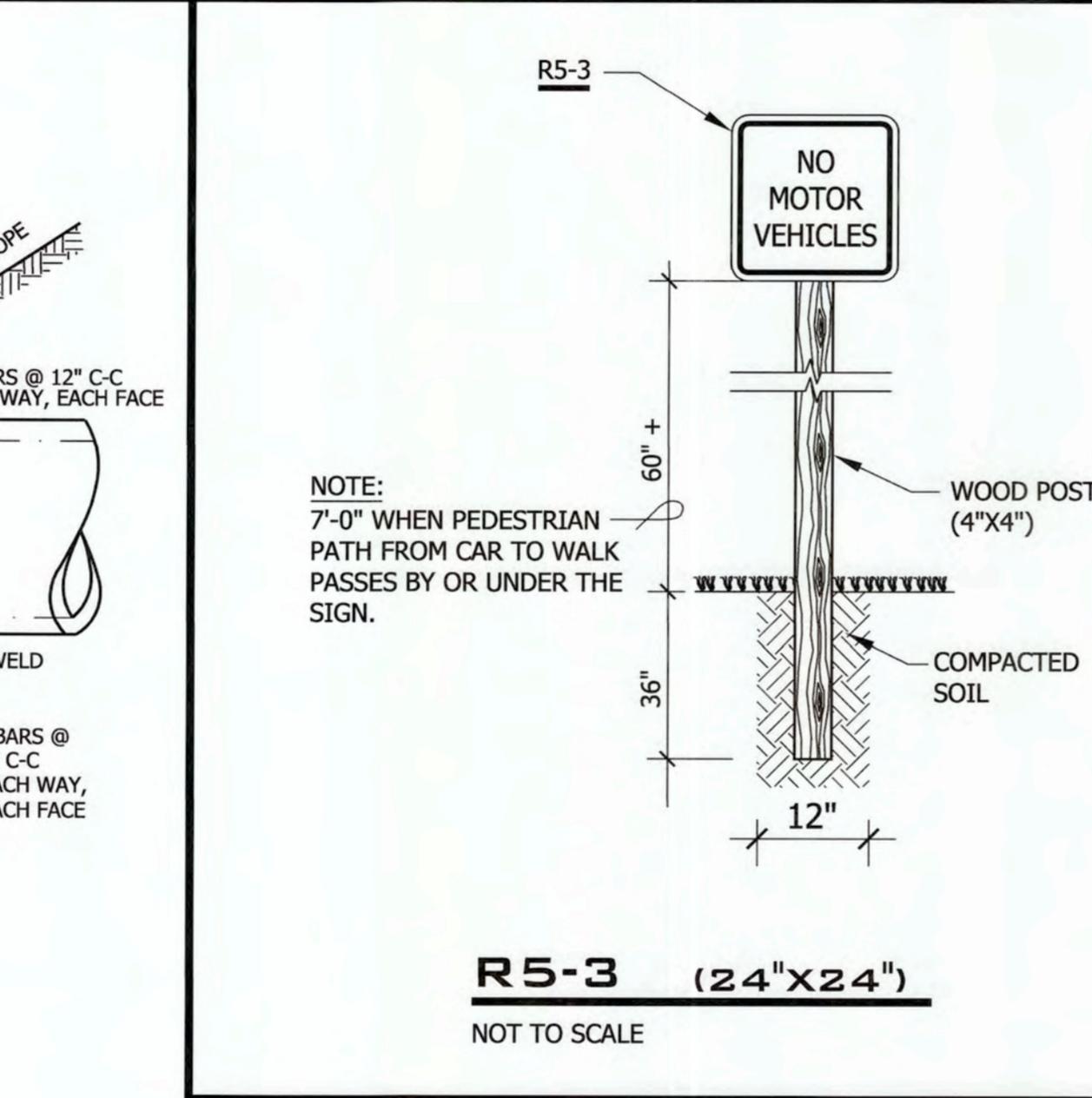
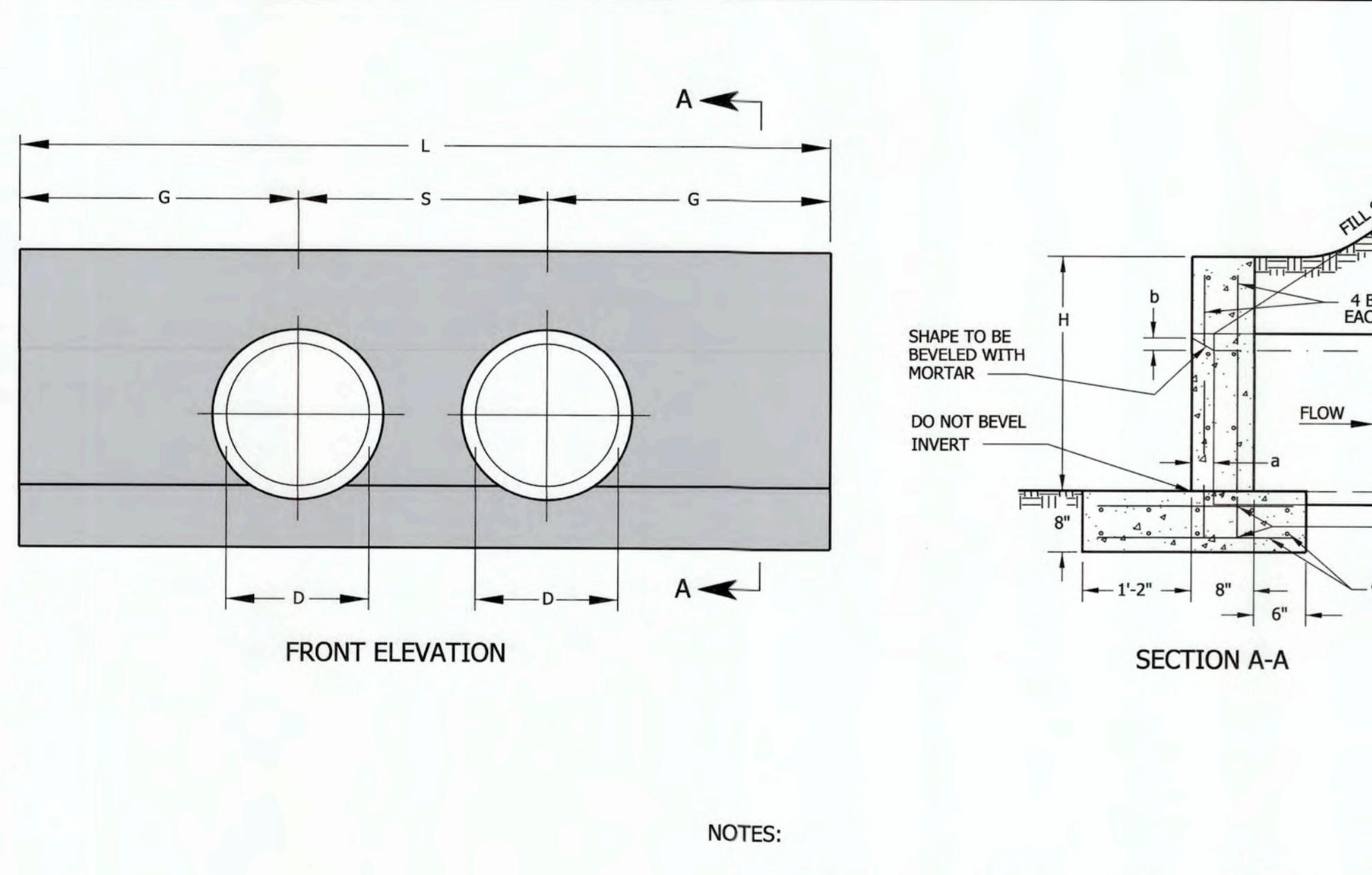


CONSTRUCTION NOTES :

- THE CONTRACTOR IS REQUIRED TO NOTIFY THE COUNTY OF ROANOKE ENGINEERING DIVISION IN WRITING AT LEAST THREE (3) DAYS PRIOR TO ANY CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - installation of approved erosion control devices
 - clearing and grubbing
 - subgrade excavation
 - installing storm sewers or culverts
 - setting curb and gutter forms
 - placing curb and gutter
 - placing other concrete
 - placing gravel base
 - placing any roadway surface
 - installing water lines (western virginia water authority)
 - installing sanitary sewer lines (western virginia water authority)
- PLAN APPROVAL DOES NOT GUARANTEE ISSUANCE OF ANY PERMITS BY V.D.O.T.
- AN APPROVED SET OF PLANS AND ALL PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY COUNTY OF ROANOKE AND /OR V.D.O.T. INSPECTORS.
- ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION LIMITS OF THE PROJECT.
- ALL SPRINGS SHALL BE CAPPED AND PIPED TO THE NEAREST STORM SEWER OR NATURAL WATERCOURSES. THE PIPE SHALL BE 6 INCH MINIMUM DIAMETER AND CONFORM TO V.D.O.T. STANDARD SB-1.
- CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT. NO LESS THAN ONE LITTER RECEPTACLE SHALL BE PROVIDED ON SITE.
- THE CONTRACTOR SHALL SUPPLY ALL UTILITY COMPANIES WITH COPIES OF APPROVED PLANS, ADVISING THEM THAT ALL GRADING AND INSTALLATION SHALL CONFORM TO APPROVED PLANS.
- FILL MATERIALS CONTAINING ROCKS LARGER THAN SIX (6) INCHES (15.2 CM) SHALL NOT BE USED. THE UPPERMOST TWO (2) FEET (61 CM) SHALL NOT HAVE ANY ROCK LARGER THAN TWO (2) INCHES (5.1 CM) IN DIAMETER.



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SURVEY NOTES:

- FIELD SURVEY MAPPING SHOWN ON THESE DRAWINGS WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF NICKIE D. MILLS, LS, FROM AN ACTUAL GROUND SURVEY. THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- ALL SURVEY DATA'S GENERAL ACCURACY IS AS FOLLOWS:
- HORIZONTAL ACCURACY: WITHIN 0.2' WITH EXCEPTIONS.
- VERTICAL ACCURACY: WITHIN 0.5' WHERE INFORMATION IS PROVIDED ON PLAN.
- CONTOUR DATA ON THIS PLAN IS GENERALLY ACCURATE TO WITHIN +/- 0.5'. WHERE CONTOUR DATA IS PROVIDED, LEAF MULCH IS VERY HEAVY ON PORTIONS OF THIS PROJECT AREA NEAR GLADE CREEK.
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND THEREFORE, THERE MAY EXIST ENCUMBRANCES NOT SHOWN HEREIN.
- WITH OCCASIONAL EXCEPTION, EDGE OF PAVEMENT, GRAVEL, CONCRETE, & BRICK ARE SHOWN BASED ON GEOREFERENCED AERIAL IMAGERY AND ARE TYPICALLY ACCURATE WITHIN 1.0'.
- WITH OCCASIONAL EXCEPTIONS, EXISTING BUILDINGS SHOWN ARE BASED ON MUNICIPAL GIS DATA AND GEOREFERENCED AERIAL IMAGERY AND ARE TYPICALLY ACCURATE TO WITHIN 3.0'.
- THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, LOCATION, SIZE, MATERIAL OR TYPE OF ANY UNDERGROUND UTILITIES. ALL UNDERGROUND UTILITIES & STRUCTURES SHOWN ON THIS PLAN ARE SHOWN BASED ON SURVEYED ABOVE GROUND STRUCTURES, AVAILABLE PUBLIC RECORDS AND BY UTILITY LOCATION MARKINGS.
- ALL UNDERGROUND UTILITY & STRUCTURE LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO THE START OF ANY CONSTRUCTION.

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF:

- INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- INSTALL 4" UNDERDRAIN PARALLEL TO GREENWAY TO PROVIDE ADEQUATE DRAINAGE, TO BE CONNECTED TO EXISTING STORM DRAIN.
- REMOVE 8" OF SOIL AND COMPACT SUBBASE TO 95% BEFORE INSTALLING A 8" 21-B STONE BASE. SHALL BE PERFORMED ON SUBGRADE.
- CONSTRUCT 2,595 L.F. OF 2" SM-9.5A ASPHALT GREENWAY, TO BE 10' WIDE.
- CONSTRUCT CIRCULAR TURNAROUND WITH A 10' RADIUS AT THE PROJECT TERMINUS.
- INSTALL 250 L.F. OF TIMBER GAURDRAIL (FENCE) AT SHOWN LOCATIONS.
- CONSTRUCT WALKWAY TO CONNECT TO EXISTING PARKING LOT.
- SEED AND STRAW ALL DISTURBED AREAS WHEN CONSTRUCTION IS COMPLETE.

TRAFFIC CONTROL:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL AND/OR AS REQUIRED BY V.D.O.T. PERMIT. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, UNLESS OTHERWISE APPROVED. THE PERMIT CAN BE REVOKED AT ANY TIME FOR UNSATISFACTORY WORK OR FAILURE TO COMPLY WITH THE REQUIREMENTS OF THE PERMIT.

LEGEND

	IPF	IRON PIN FOUND
EXISTING ROAD SURFACE	— · · —	NATURAL WATER COURSE
PROPOSED GREENWAY	— X — X —	FENCE
EXISTING ASPHALT SURFACE	LIMITS OF FIELD SURVEY
EXISTING STONE SURFACE	— · · — —	CLEARING LIMITS
RIP RAP	...	FIELD LIGHTS
HAUL ROAD	-----	UNDERDRAIN
EXISTING REINFORCED CONCRETE PIPE	— ■ — ■ —	TIMBER GAURDRAIL
PROPOSED REINFORCED CONCRETE PIPE	— ■ — ■ —	CONSTRUCTION SAFETY FENCE
EXISTING STORM DRAIN DEMOLISHED/ABANDONED	— ■ — ■ —	TREES TO BE REMOVED
WATER METER	— LOD — LOD —	LIMITS OF DISTURBANCE

UTILITY CONTACTS FOR IN PLACE PERMITS	
APPALACHIAN POWER COMPANY	SEGRA Barry Burnett 80 RIVER ROAD, FIELDALE, VA. BLBURNETTE@AEP.COM PH: 276-627-1225
COX COMMUNICATIONS	Greg Smith 5400 Fallowell Ln. Roanoke, Va. 24018 Gregory.smith@cox.com PH: 540-777-4235 Cell: 540-293-2662 Fax: 540-777-1043
TOWN OF VINTON	William Herndon 804 3rd St. Vinton, Va. 24119 WHERNDON@vinton.org PH: 540-983-0646 Fax: 540-985-4582
NTELLOS	Bryan Hunley P.O. Box 174 Daleville, Va. 24083 hunley@ntellos.com PH: 540-591-5438 Fax: 540-992-1000
VERIZON VIRGINIA, LLC	R. Allen Asbury 4843 Oakland Blvd. Roanoke, Va. 24012 Roscoe.a.asbury@verizon.com PH: 540-265-7574
WVWA	Aaron Shearer 601 S. Jefferson St. Suite 300 Roanoke, Va. 24011 Aaron.Shearer@westernvirginiawater.org PH: 540-283-2941 Fax: 540-537-3873
ROANOKE GAS CO.	Hal Bailey PH: 540-777-3801

FOR CIRCULAR CONCRETE OR CORRUGATED METAL PIPE						
FOR MULTIPLE PIPE ENDWALL						
D	H	L	S	G	a	b
12"	2'-0"	5'-10"	2'-0"	1'-11"	0'-1 1/4"	0'-1"
15"	2'-3"	7'-3"	2'-3"	2'-6"	0'-3 1/4"	0'-1 1/2"
18"	2'-6"	8'-8"	2'-8"	3'-0"	0'-2"	0'-1 1/2"
21" OR 24"	3'-2"	11'-6"	3'-6"	4'-0"	0'-2 1/2"	0'-2"
27" OR 30"	3'-10"	14'-4"	4'-4"	5'-0"	0'-3 3/4"	0'-2 1/2"
33" OR 36"	4'-4"	17'-2"	5'-2"	6'-0"	0'-3 3/4"	0'-3"

EW-6PC

NOT TO SCALE

(PRECAST ENDWALL FOR MULTIPLE PIPE CULVERTS)
12"-36" PIPE CULVERTS

DEPARTMENT OF
DEVELOPMENT
SERVICES

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GLADE CREEK GREENWAY
VINYARD PARK - WEST

DATE: 3/18/2024
SCALE: 1" = 20'
DRAWING BY: BWE
DESIGNED BY: NDM
APPROVED BY: DMH



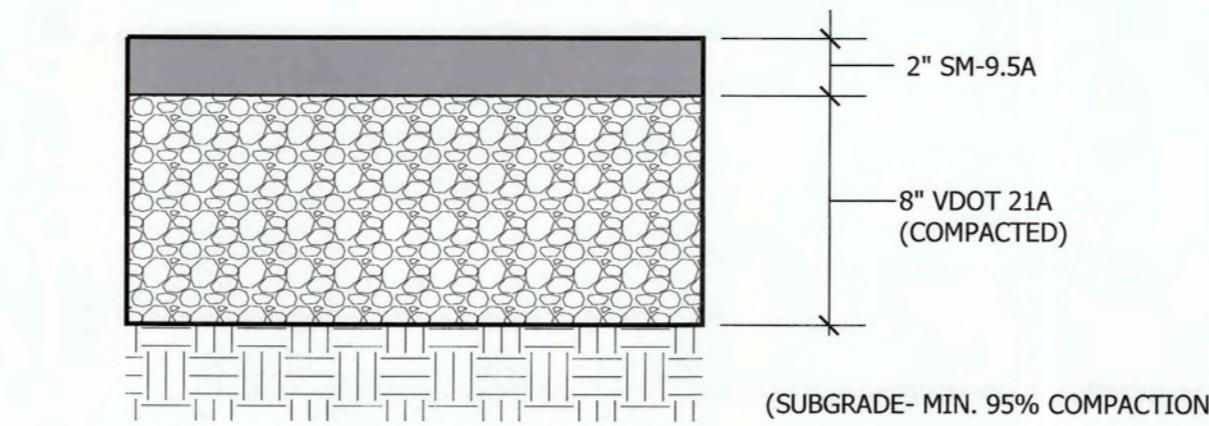
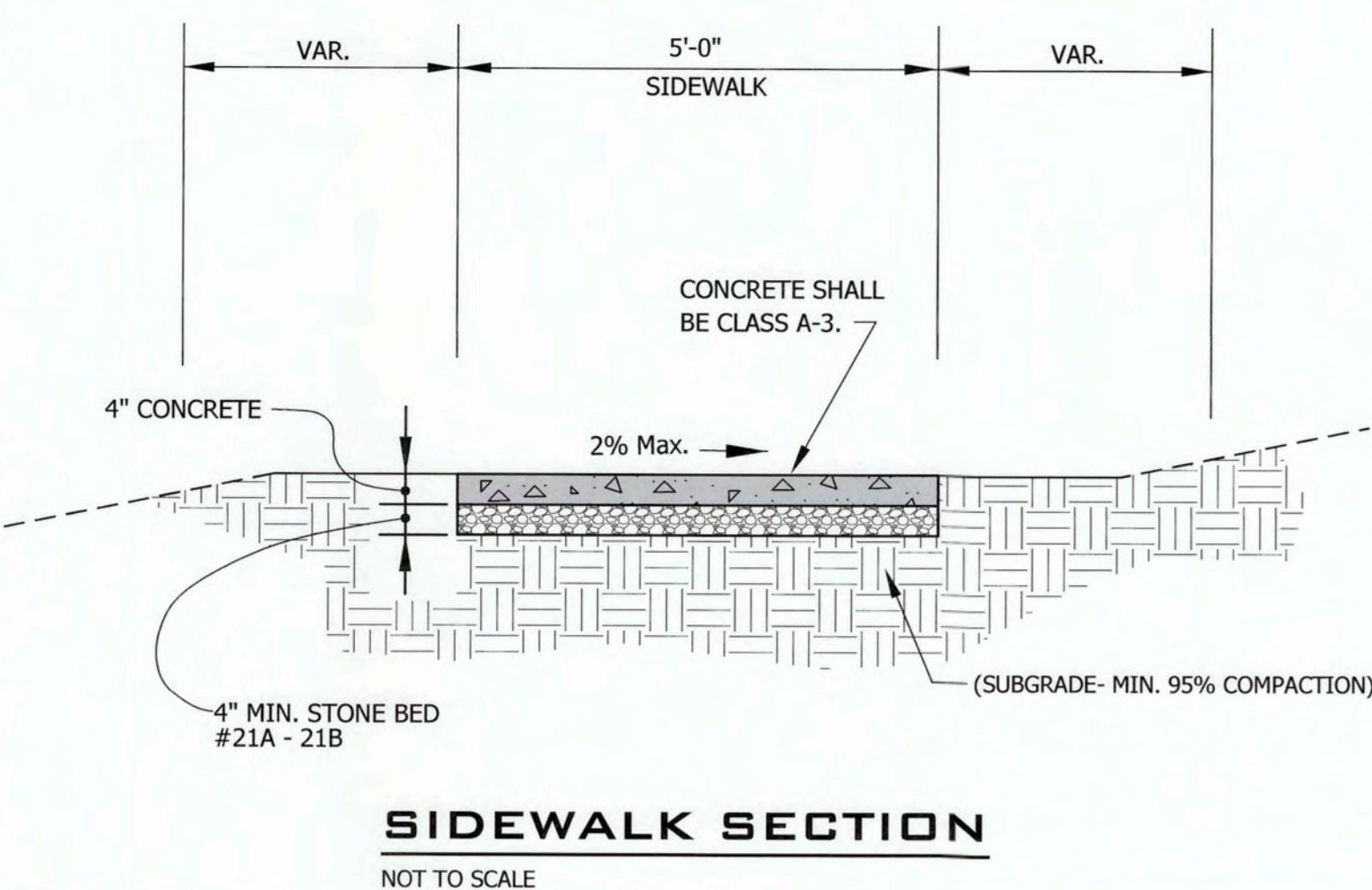
NOTES
&
DETAILS

SHEET
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OF
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PROFESSIONAL ENGINEER
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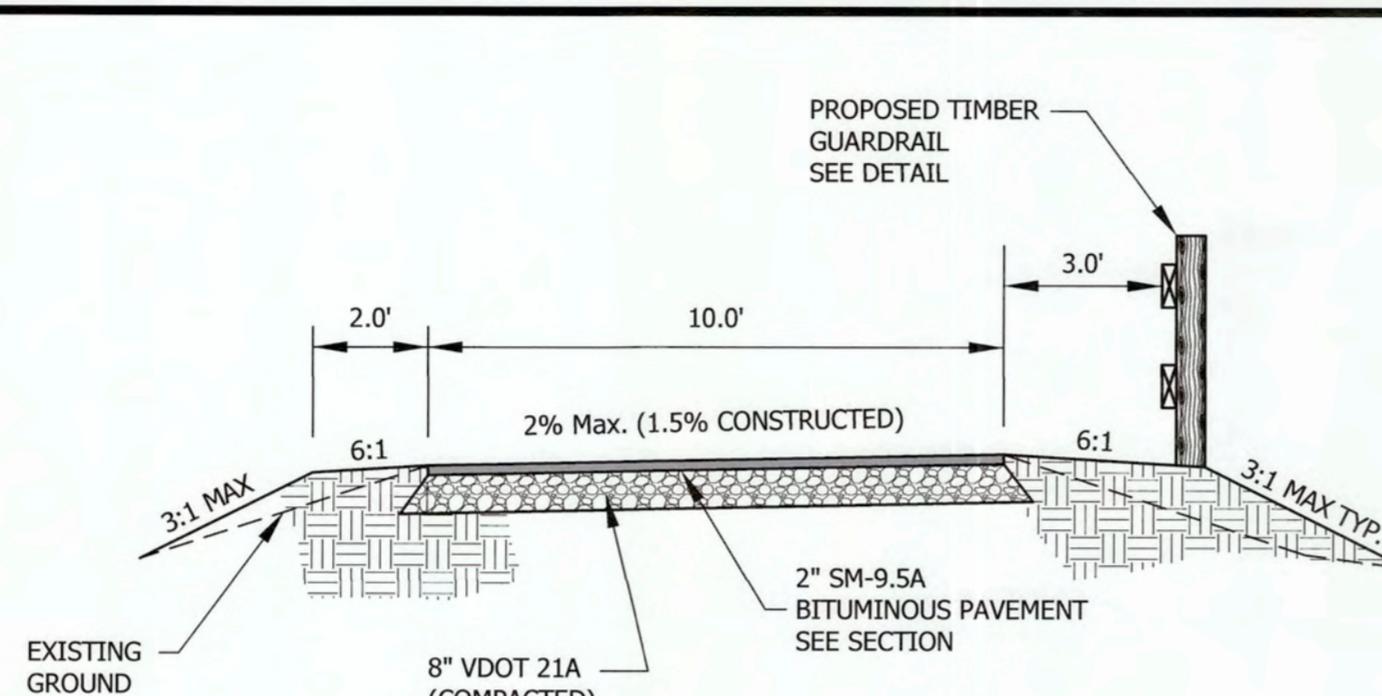
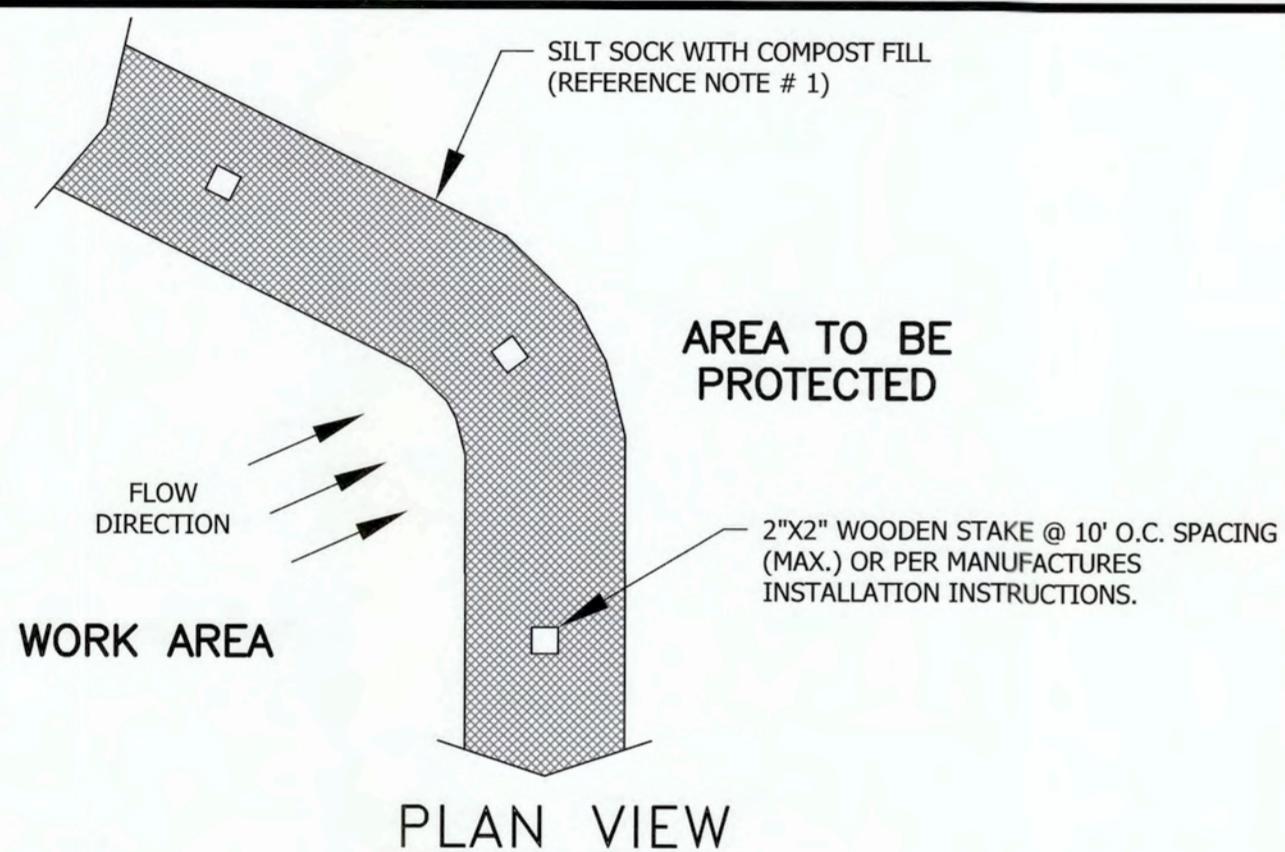


NOTES:

1. STONE BASE MUST BE PLACED IN LIFTS OF NO MORE THAN 4" EACH.
2. A TACK COAT SHALL BE APPLIED BETWEEN STONE BASE & ASPHALT PAVEMENT LAYER.
3. G.C. TO INSURE A MINIMUM OF 95% COMPACTION OF THE SUBGRADE PRIOR TO STONE/ASPHALT PLACEMENT.
4. SUBGRADE SHALL BE EXCAVATED AS NECESSARY SUCH THAT THE TOP OF ASPHALT AND THE TOP OF GRAVEL PAVEMENT SECTIONS ARE FLUSH.
5. ALL PAVING AND STONE BASE SHALL BE CONSTRUCTED IN ACCORDANCE W/ VDOT ROAD & BRIDGE STANDARDS.

PAVEMENT SECTION

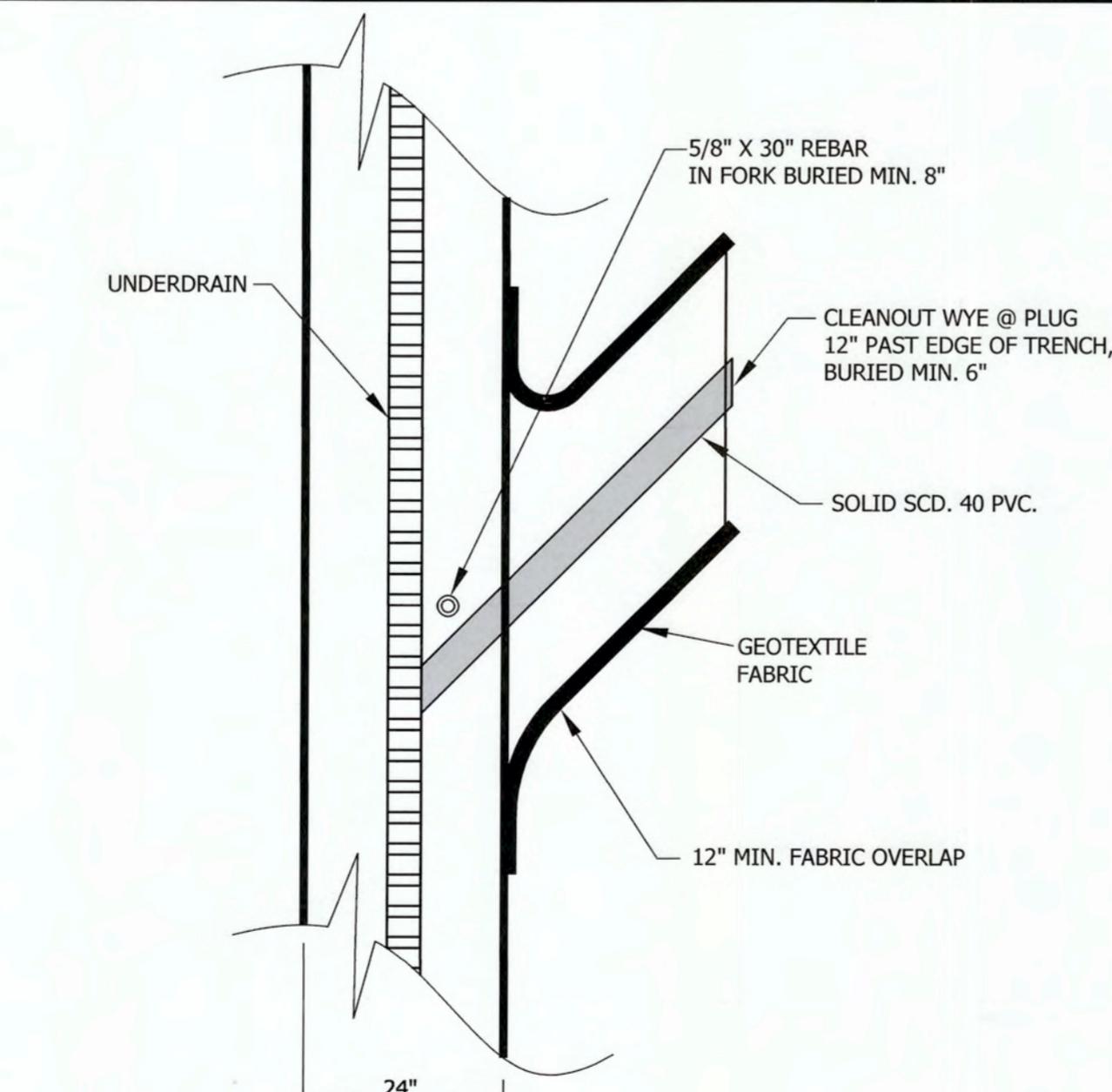
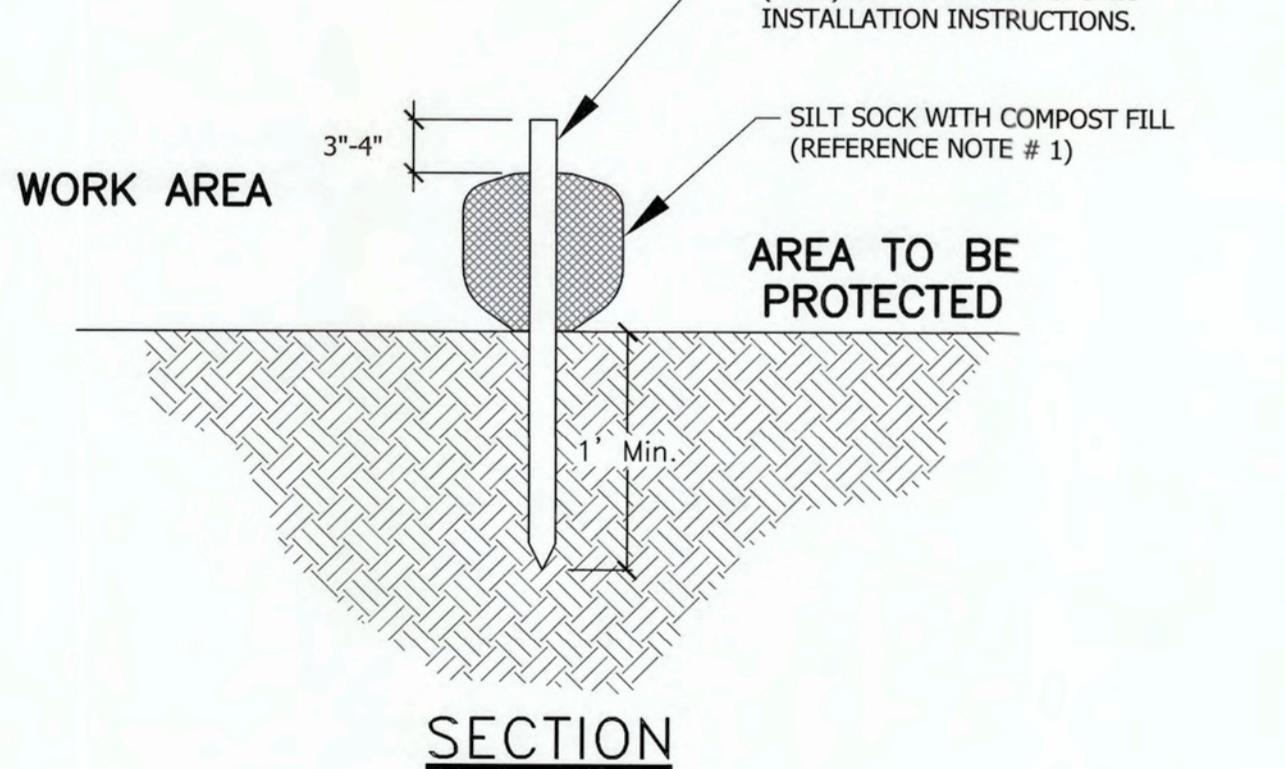
NOT TO SCALE



TYPICAL GREENWAY SECTION

- CROSS SLOPE LEFT

NOT TO SCALE (DESIGN SPEED = 15 MPH)

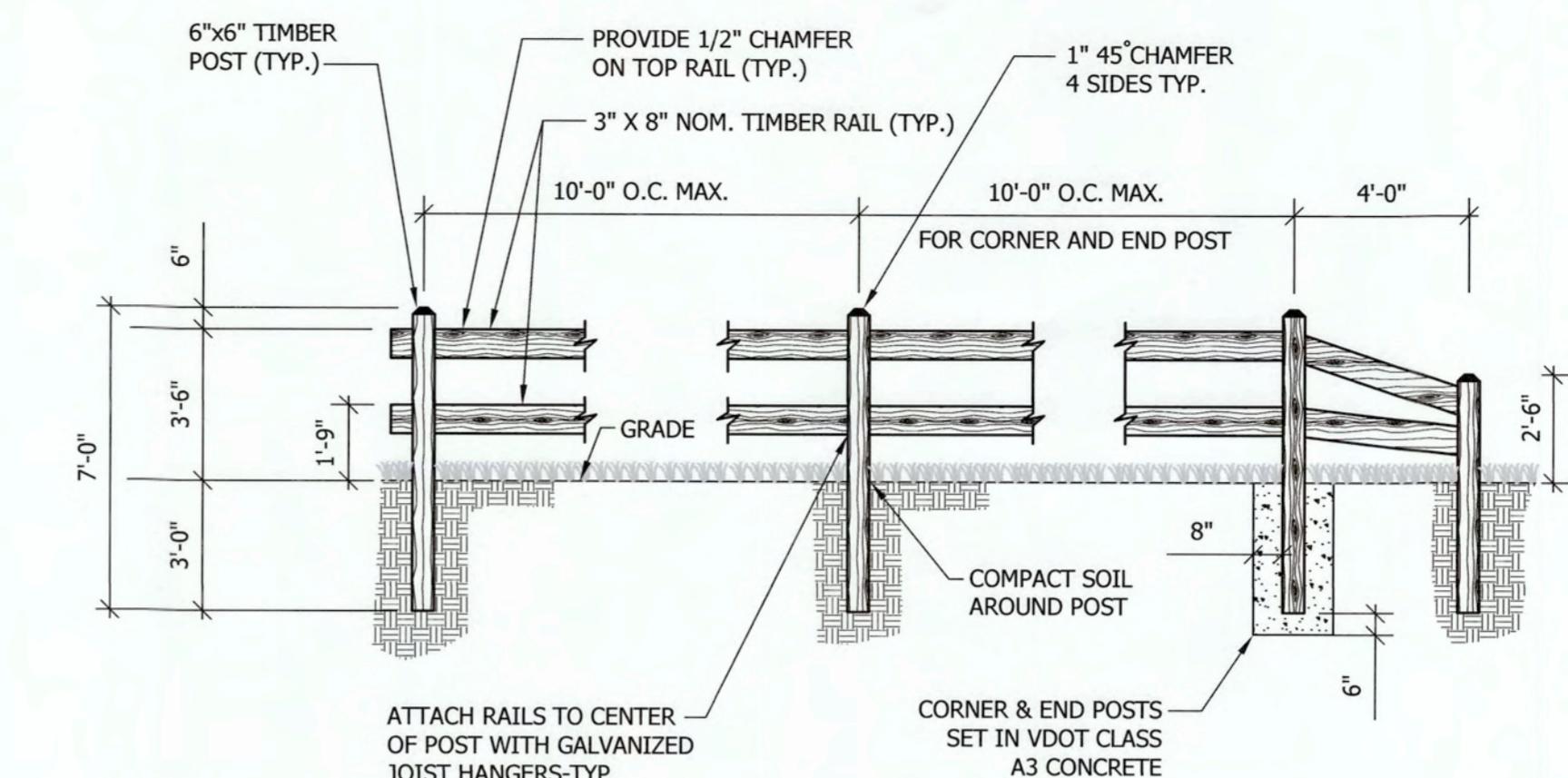


SILT SOCK DETAIL

NOT TO SCALE

UNDERDRAIN CLEANOUT DETAIL

NOT TO SCALE

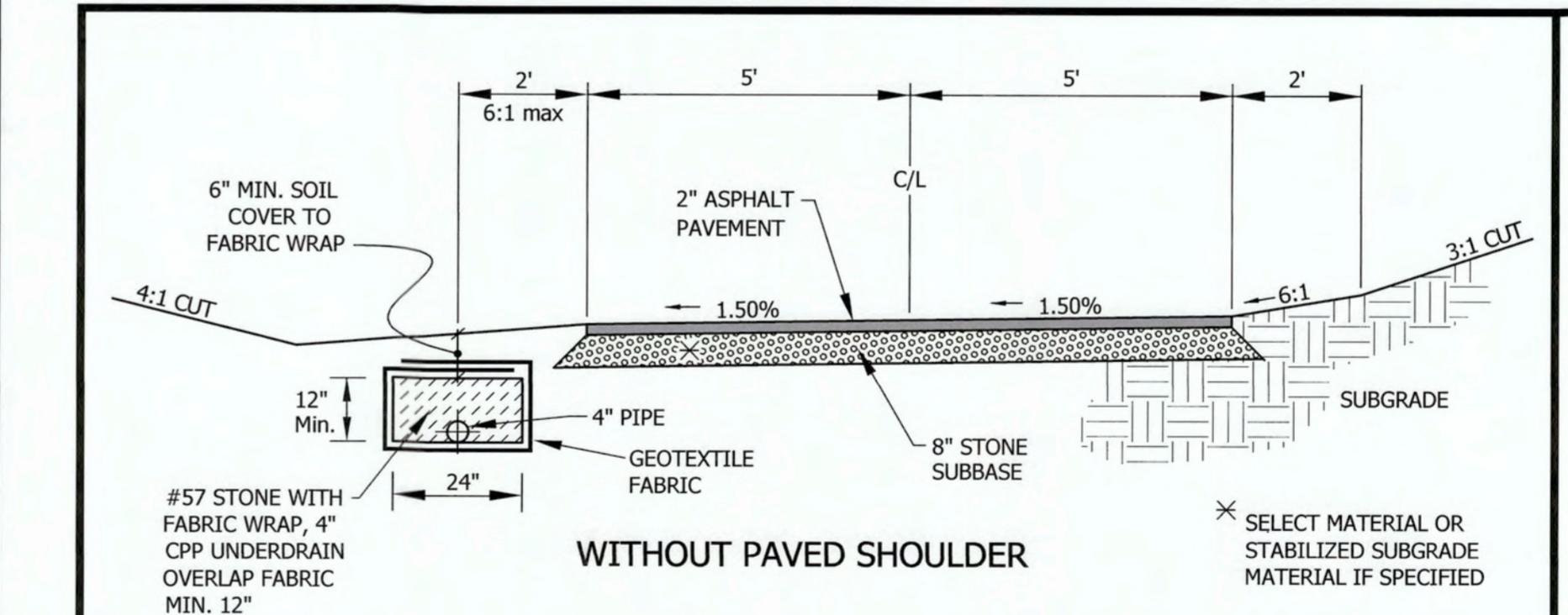


NOTES:

1. TIMBER POSTS SHALL BE 6"X 6" #1 SYP. (SOUTHERN YELLOW PINE), S4S (SURFACE FOUR SIDES), GM (GRADE MARKED), ACQ PRESERVATIVE TO 0.40 LB./CU. FT., PET (PRECISION END TRIM), 1" CH4TE (1" CHAMFER AROUND TOP FOUR EDGES).
2. TIMBER RAILS SHALL BE #1 SYP. (SOUTHERN YELLOW PINE) S4S (SURFACE FOUR SIDES), GM (GRADE MARKED), ACQ PRESERVATIVE TO 0.40 LB./CU. FT., DET (DOUBLE END TRIM), 1/2" CHAMFER ON BOTH EDGES OF TOP RAIL, DOH (DEPARTMENT OF HIGHWAYS), RAILS SHALL BE ATTACHED TO POST WITH GALVANIZED CONCEALED FLANGE JOIST HANGERS AND GALVANIZED SCREWS.
3. ALL CUT ENDS SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA STANDARDS.
4. THE CONTRACTOR SHALL TAPER THE TIMBER GUARDRAIL AT THE END TO PROVIDE A MINIMUM 2' HORIZONTAL CLEARANCE FROM THE FACE OF TIMBER GUARDRAIL TO THE EDGE OF THE GREENWAY TRAIL PAVEMENT.
5. THE QUANTITY TO BE PAID FOR UNDER THIS ITEM SHALL BE THE TOTAL LINEAR FEET, MEASURED TO THE NEAREST FOOT OF TIMBER GUARDRAIL FURNISHED AND INSTALLED IN ACCORDANCE WITH THESE PLANS.
6. THE PRICE PER LINEAR FOOT SHALL INCLUDE COST OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS REQUIRED TO FURNISH AND INSTALL TIMBER GUARDRAIL IN ACCORDANCE WITH THIS DETAIL SHOWN AND AS DIRECTED ELSEWHERE IN THE PLANS, TO INCLUDE, BUT NOT LIMITED TO, POST, RAILS, FOOTINGS, HARDWARE AND OTHER INCIDENTALS REQUIRED FOR THE CONSTRUCTION OF THE TIMBER GUARDRAIL.

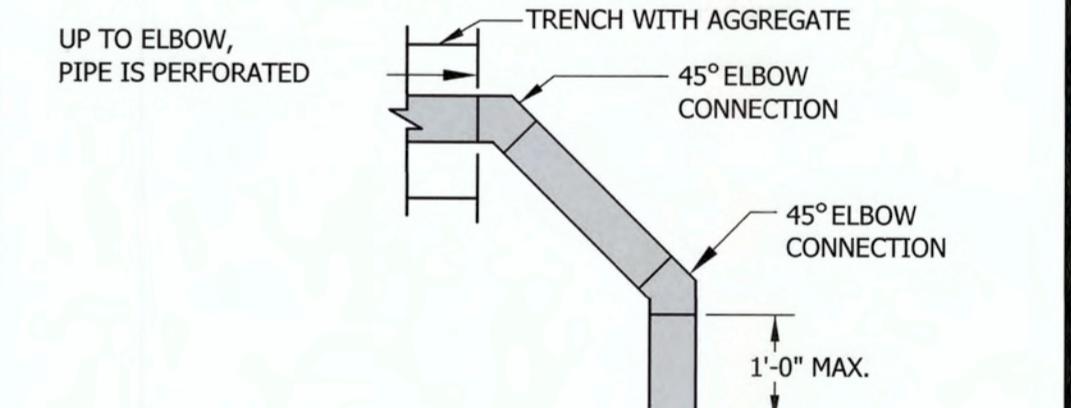
TYPICAL TIMBER GUARDRAIL

NOT TO SCALE



LONGITUDINAL PERFORATED PIPE

TYPE OF PIPE	CRUSHING STRENGTH
4" NOMINAL DIAMETER	
CORRUGATED PE	AASHTO M-252



PLAN VIEW OF OUTLET PIPE AT FILL

NOTES:

1. WHEN THE LONGITUDINAL PIPE CONNECTS DIRECTLY INTO A DRAINAGE STRUCTURE (DROP INLET, MANHOLE, ETC.), NON-PERFORATED OUTLET PIPES ARE NOT REQUIRED.
2. INVERT ELEVATION AT OUTLET END OF OUTLET PIPE TO BE A MINIMUM OF 1'-0" ABOVE INVERT ELEVATION OF RECEIVING DRAINAGE DITCH OR STRUCTURE.
3. ALL CONNECTIONS (ELBOWS, WYES, ETC.) WITHIN PAY LIMITS FOR OUTLET PIPE ARE TO BE OF THE SAME CRUSHING STRENGTH AS THE OUTLET PIPE.
4. OUTLET PIPES ARE TO BE INSTALLED PER PROFILE DRAWINGS AND SHALL BE SCHEDULE 40 PVC.

STANDARD GROUNDWATER UNDERDRAIN

NOT TO SCALE



DEPARTMENT OF
DEVELOPMENT
SERVICES

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NO.
REVISIONS
DATE

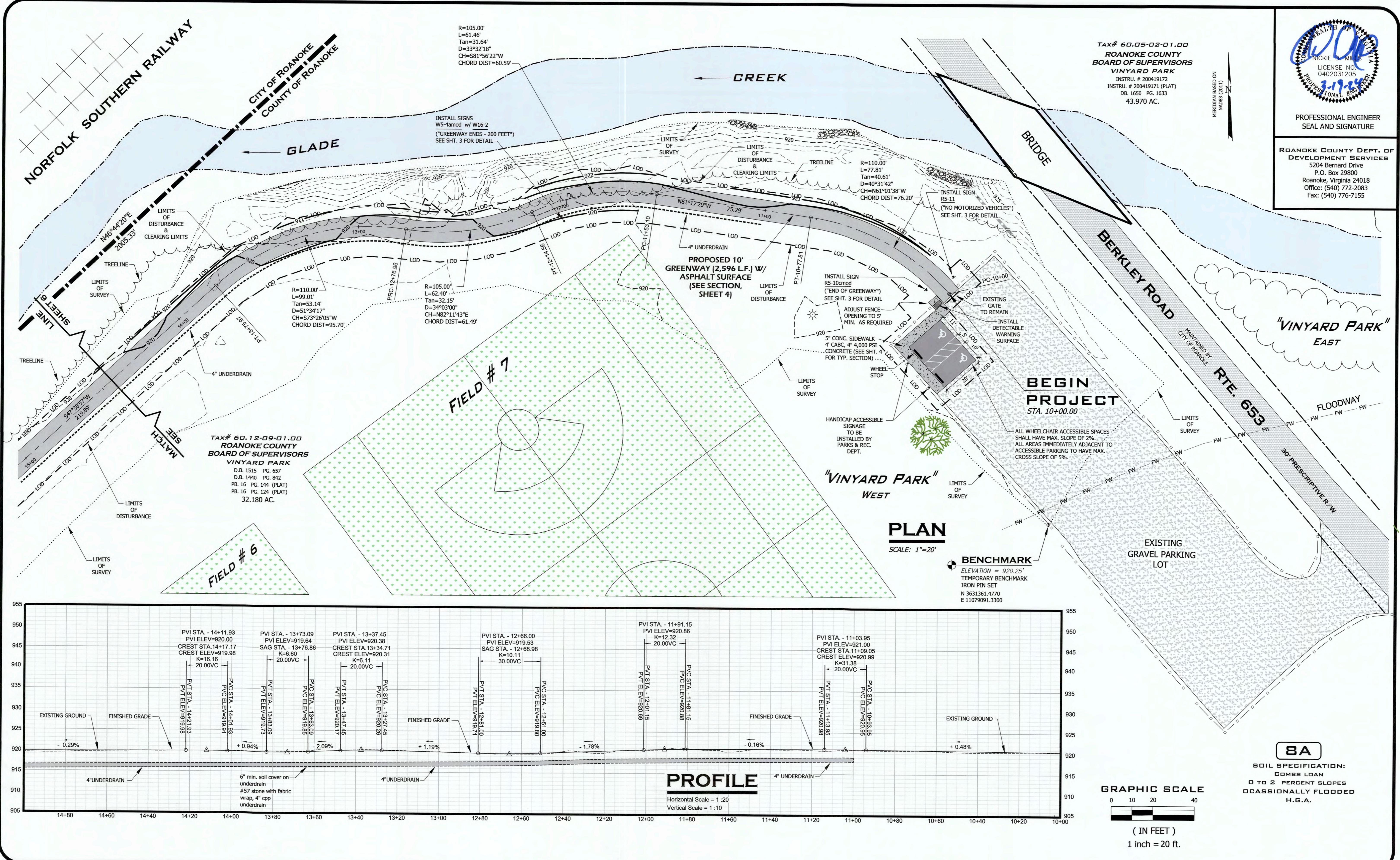
**GLADE CREEK GREENWAY
VINYARD PARK - WEST**

DATE: 3/18/2024
SCALE: 1" = 20'
DRAWING BY: BWE
DESIGNED BY: NDM
APPROVED BY: DMH



**TYPICAL
SECTIONS**

**SHEET
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OF
18**



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SERVICES

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NO.	REVISIONS	DATE			

**GLADE CREEK GREENWAY
VINYARD PARK - WEST**



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TAX# 60.05-02-01.00
ROANOKE COUNTY
BOARD OF SUPERVISORS
VINYARD PARK
INSTRU. # 200419172
INSTRU. # 200419171 (PLAT)
DB. 1650 PG. 1633
43.970 AC.

MERIDIAN BASED ON
NAD83 (2011)

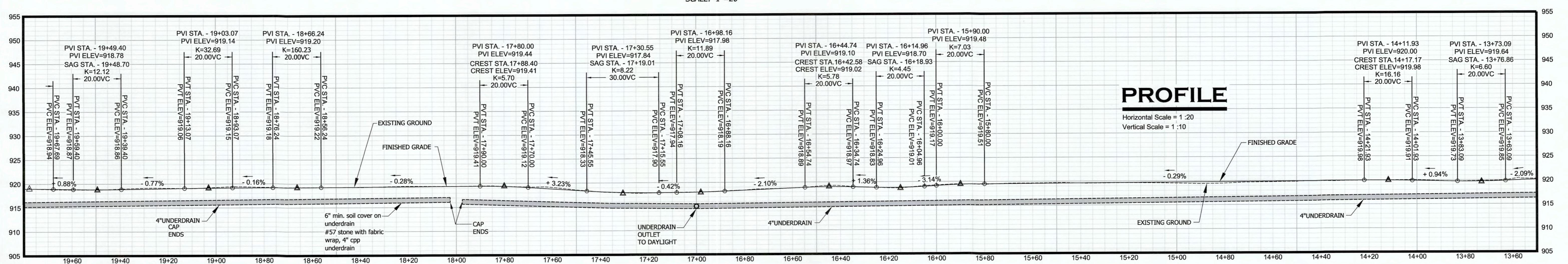
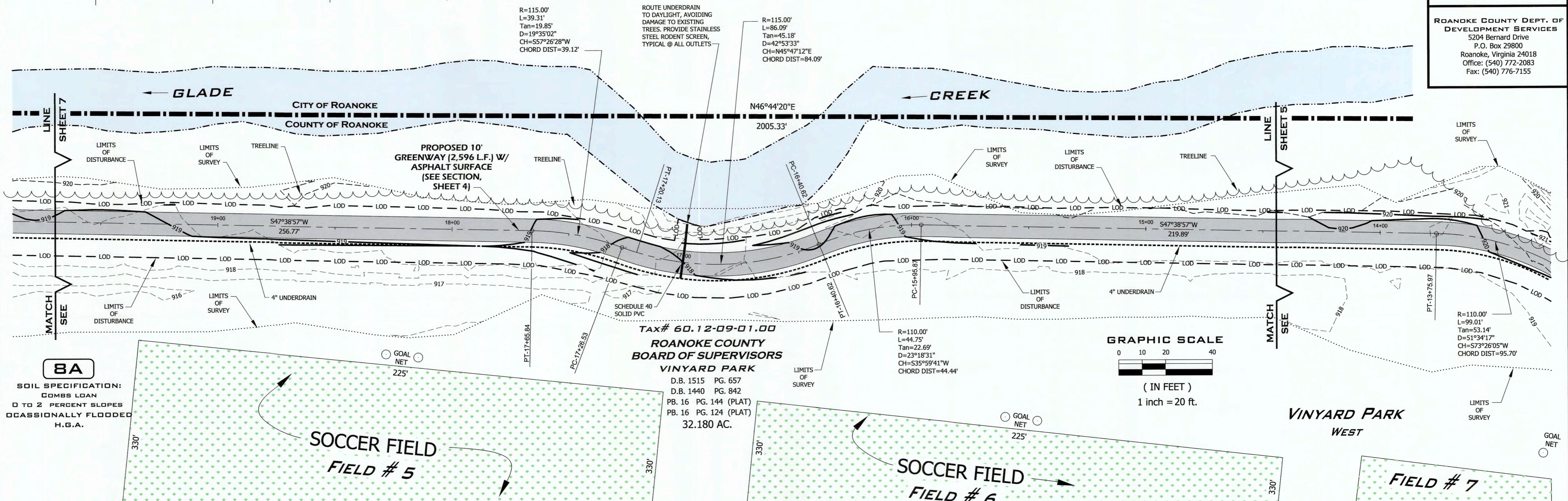
NORFOLK SOUTHERN RAILWAY

3/13/2024
MERIDIAN BASED ON
NAD83 (2011)



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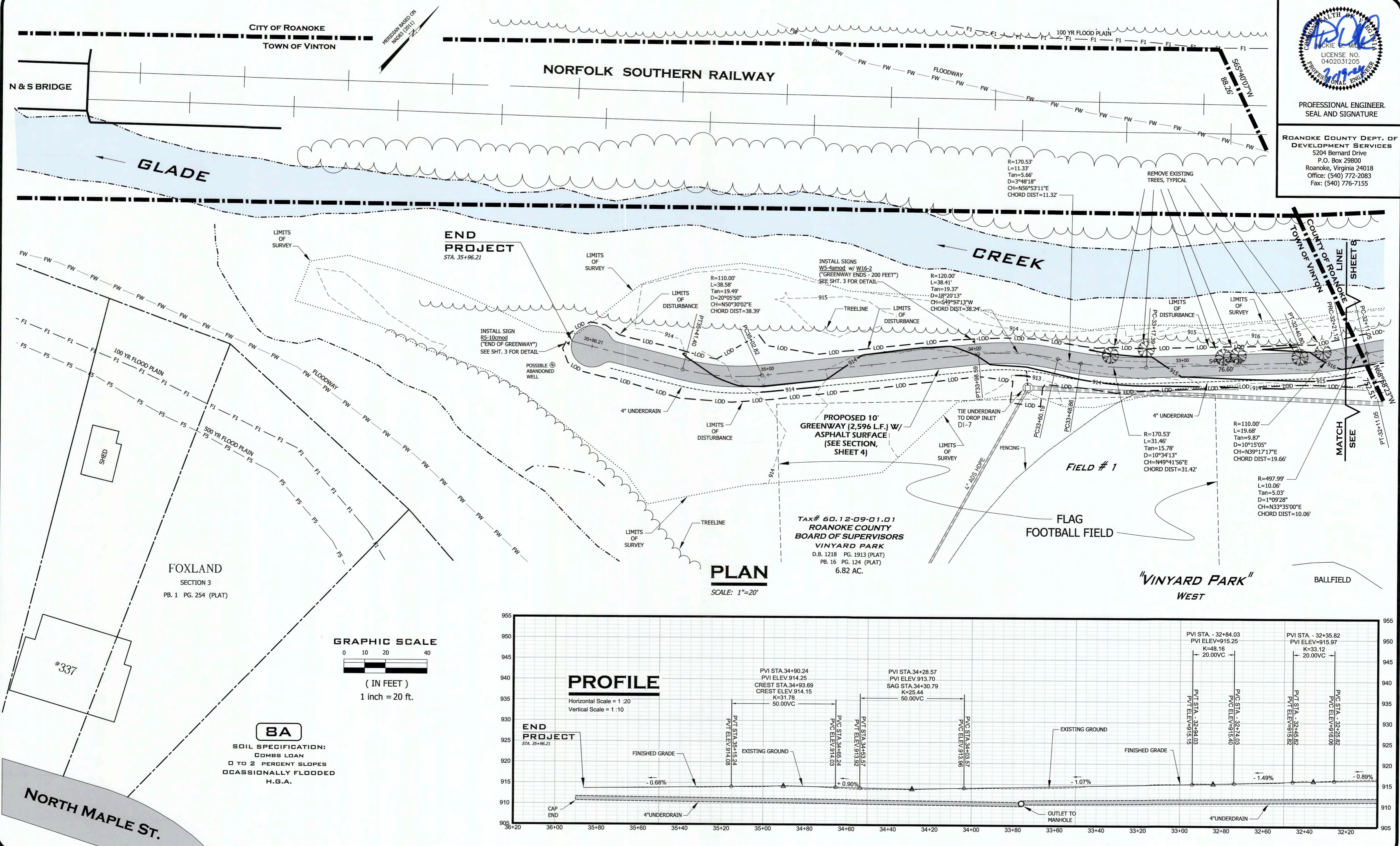
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DEPARTMENT OF DEVELOPMENT SERVICES

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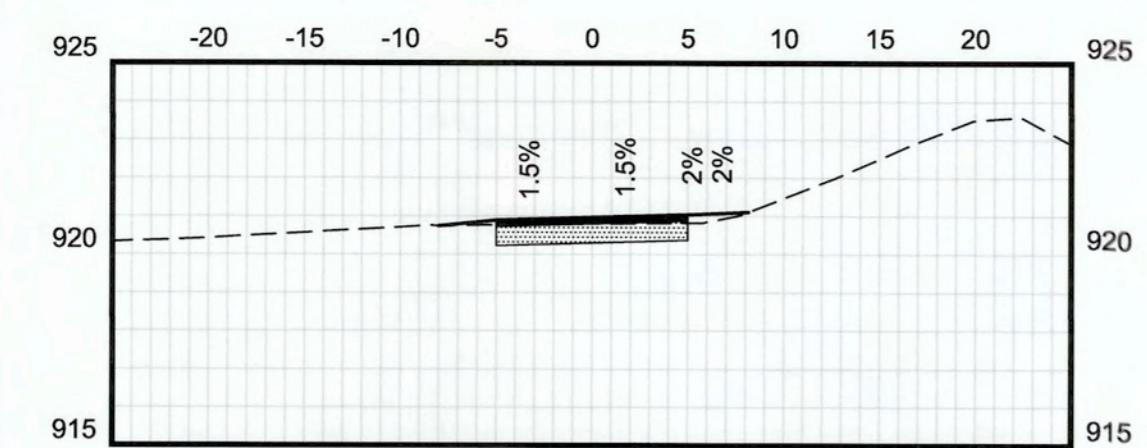
GLADE CREEK GREENWAY VINYARD PARK - WEST

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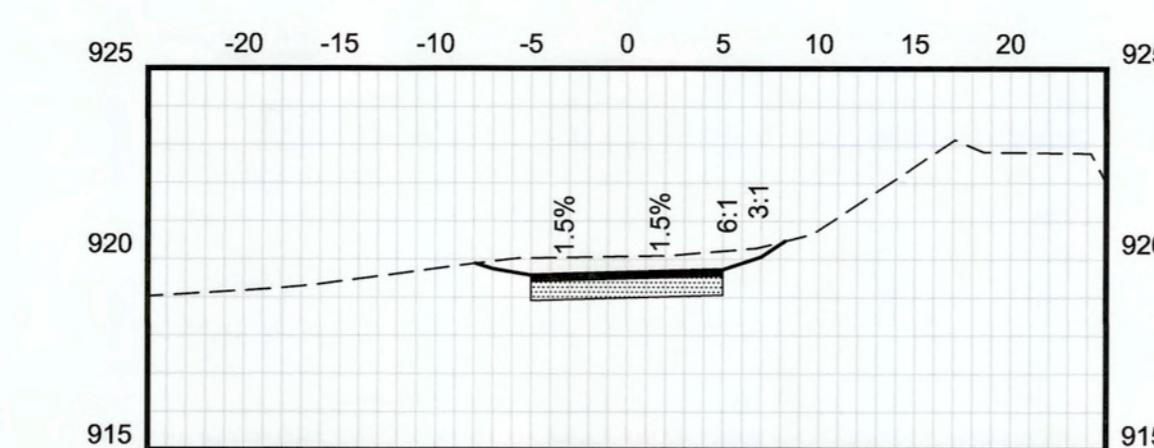


**PLAN
& PROFILE
STA. 32+20 - 35+96)**

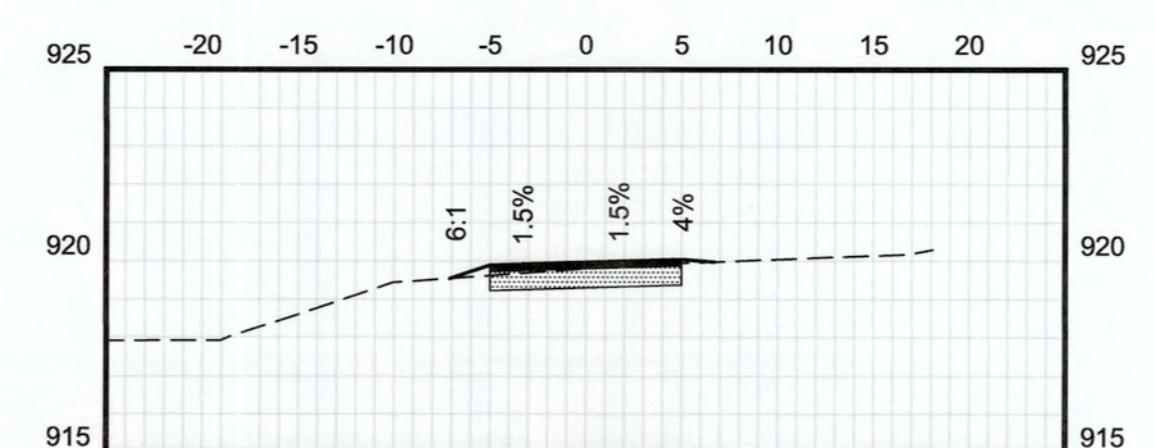
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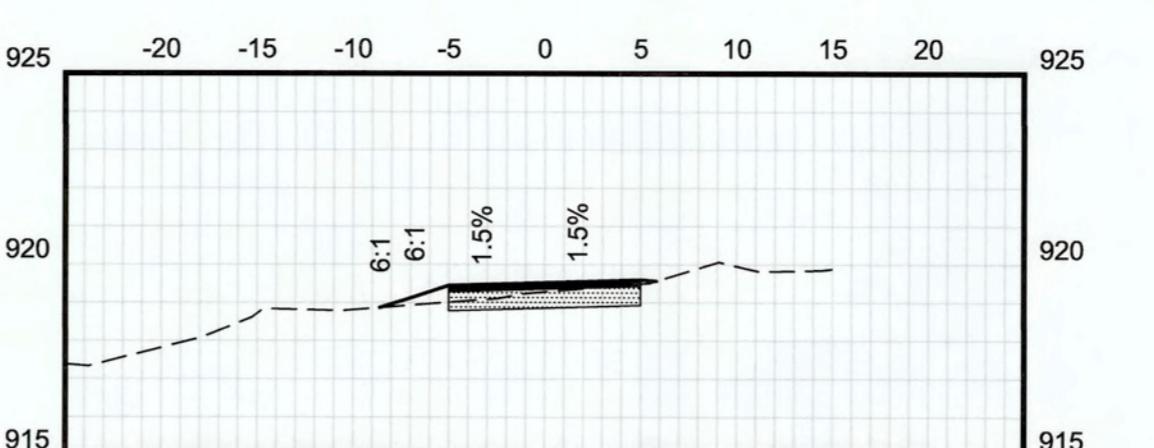
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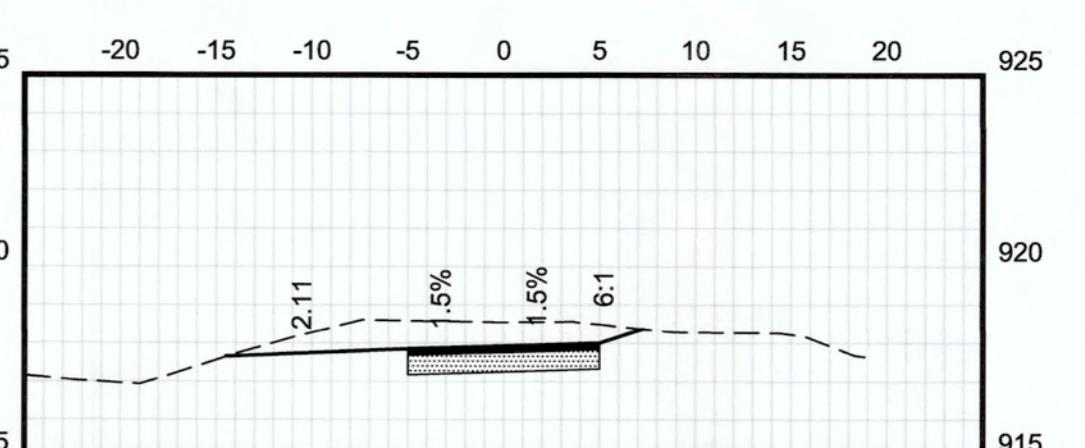
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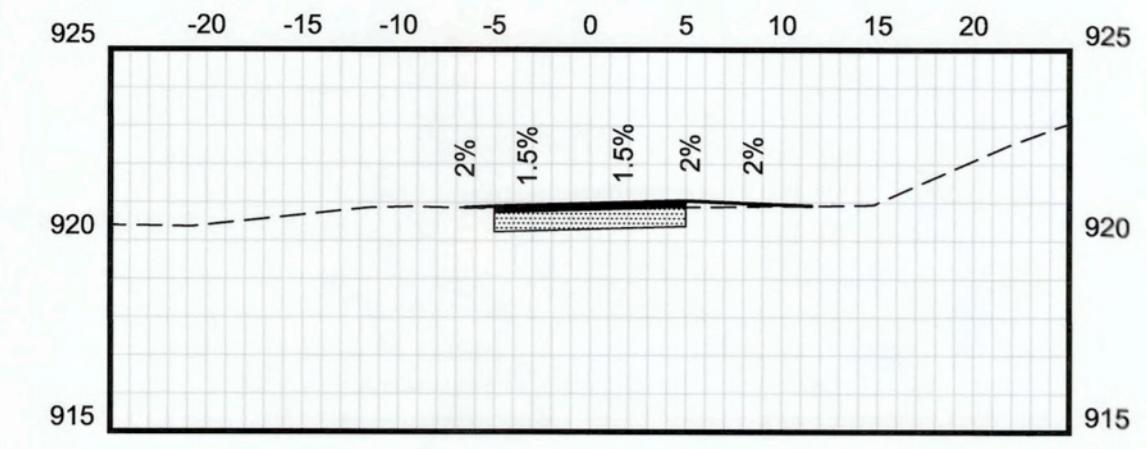
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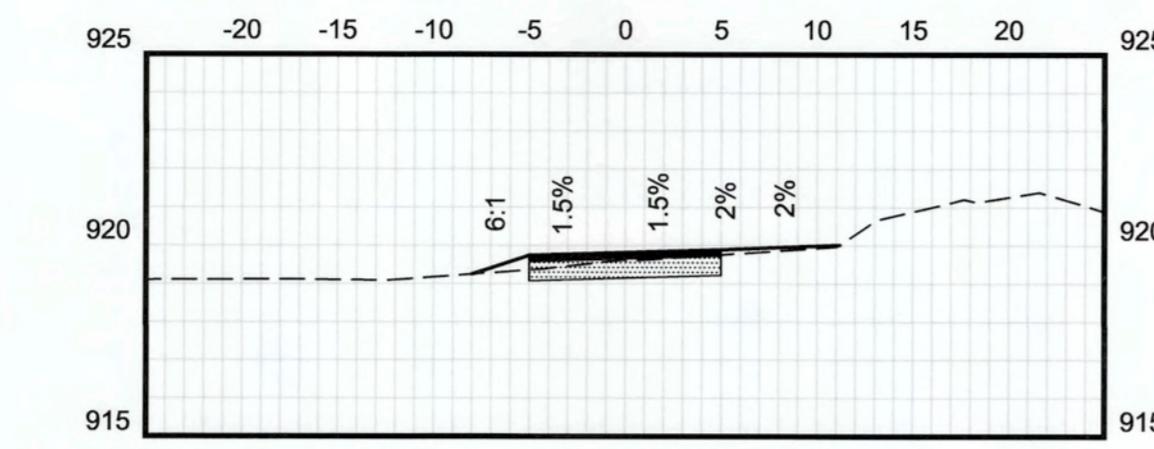
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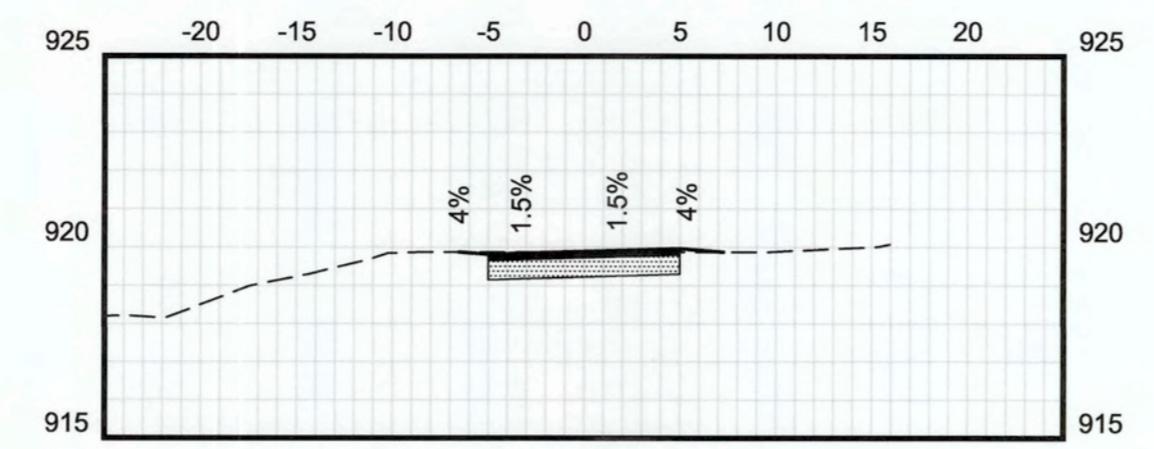
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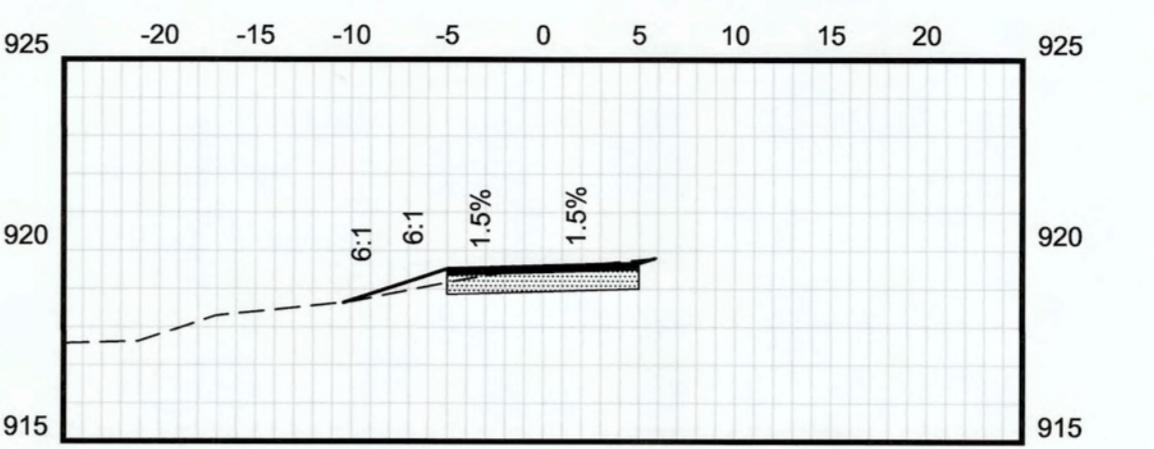
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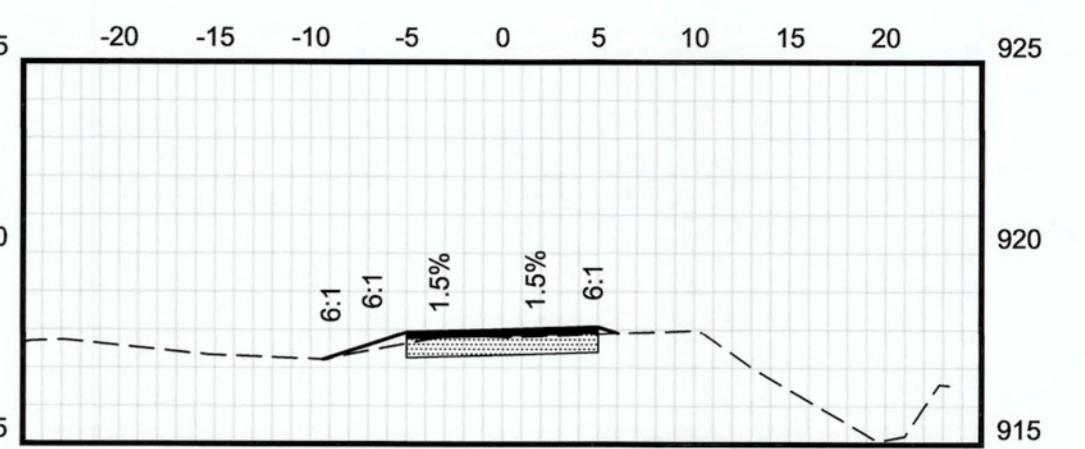
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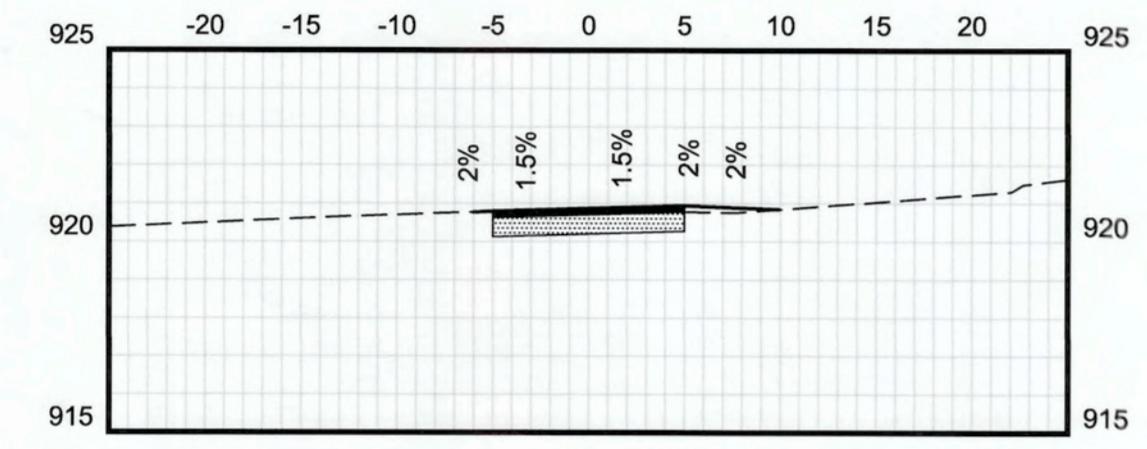
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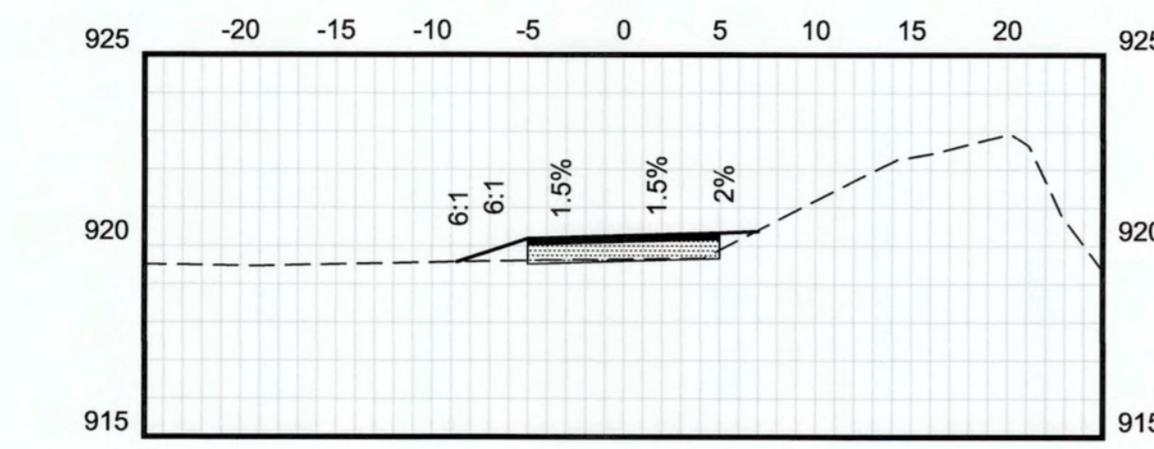
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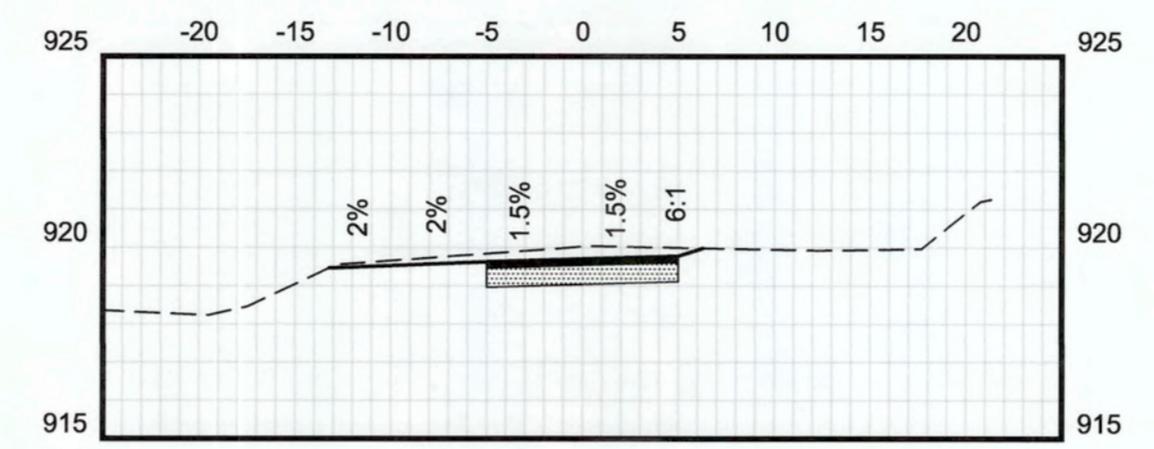
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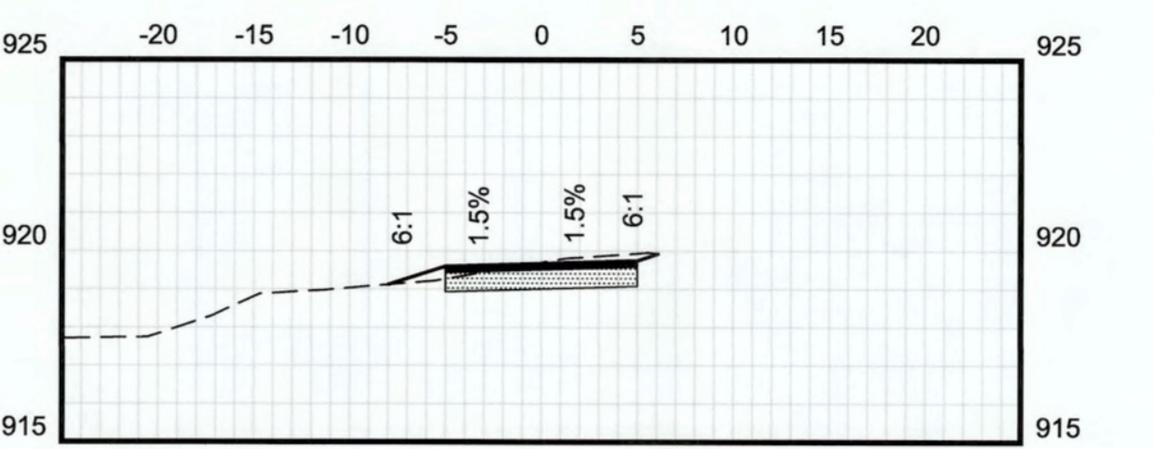
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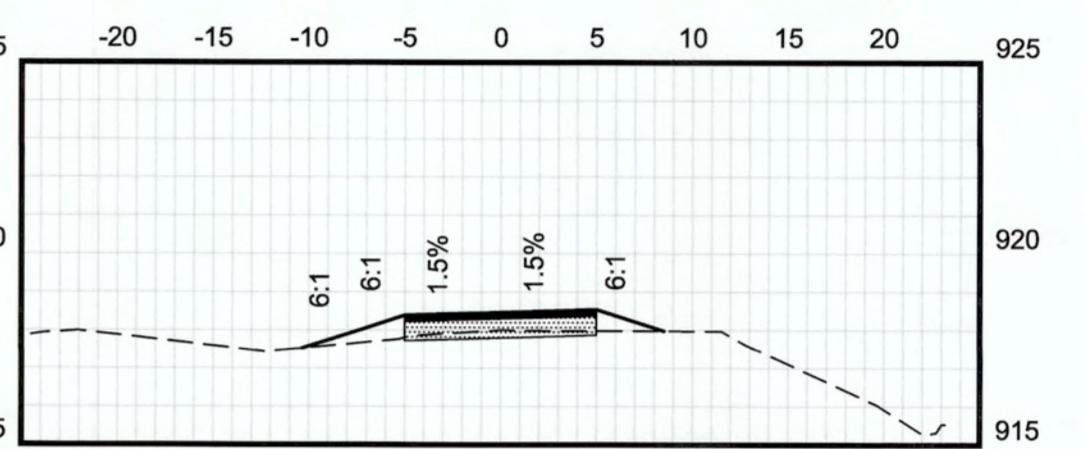
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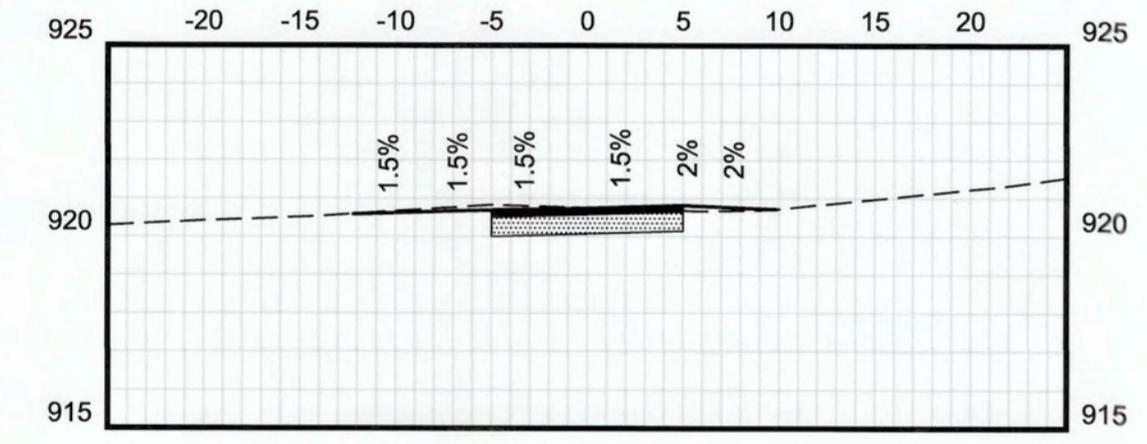
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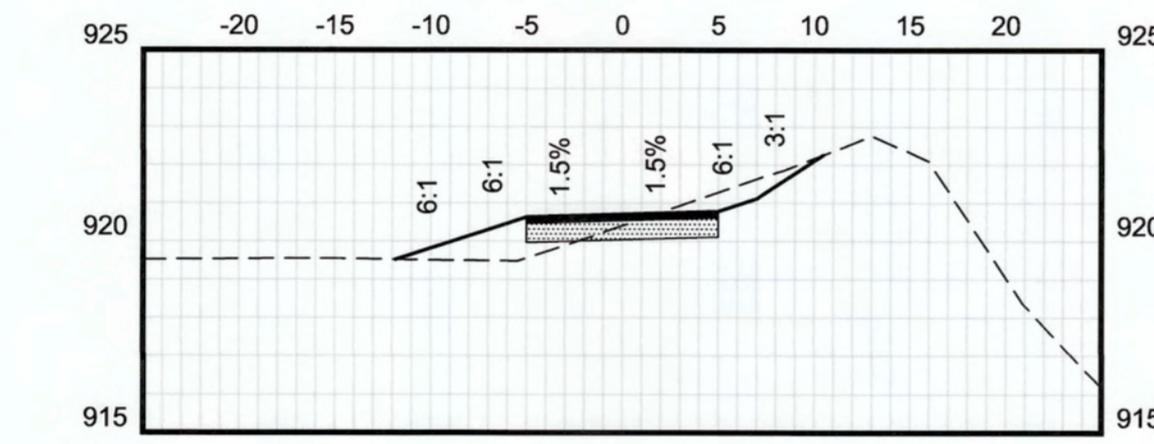
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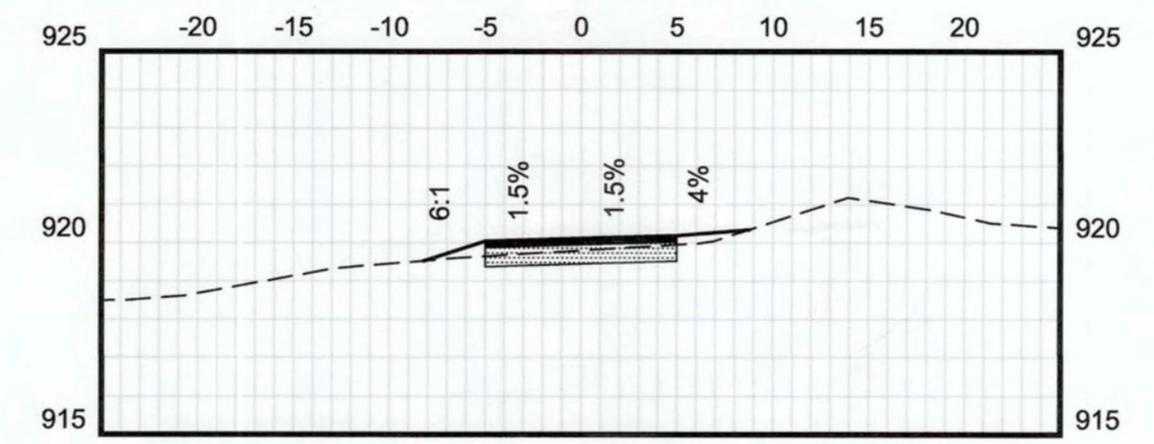
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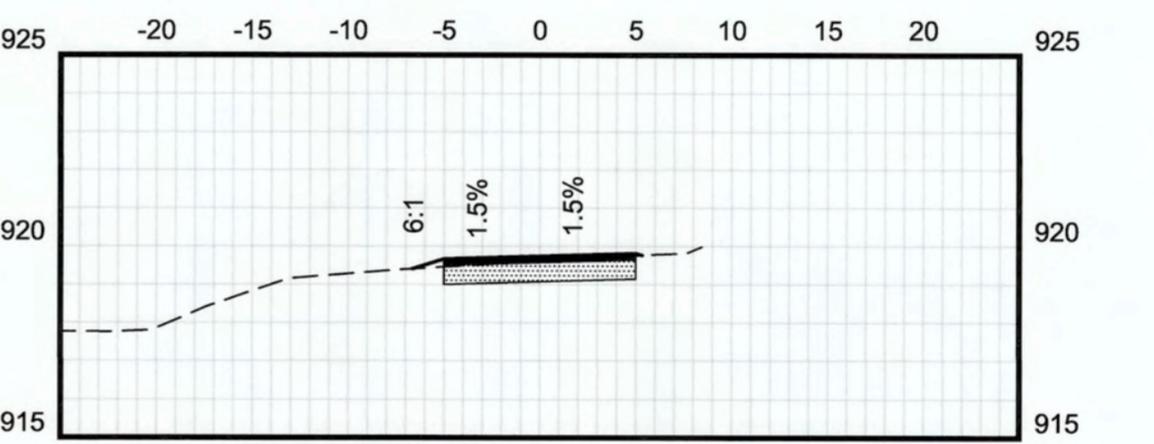
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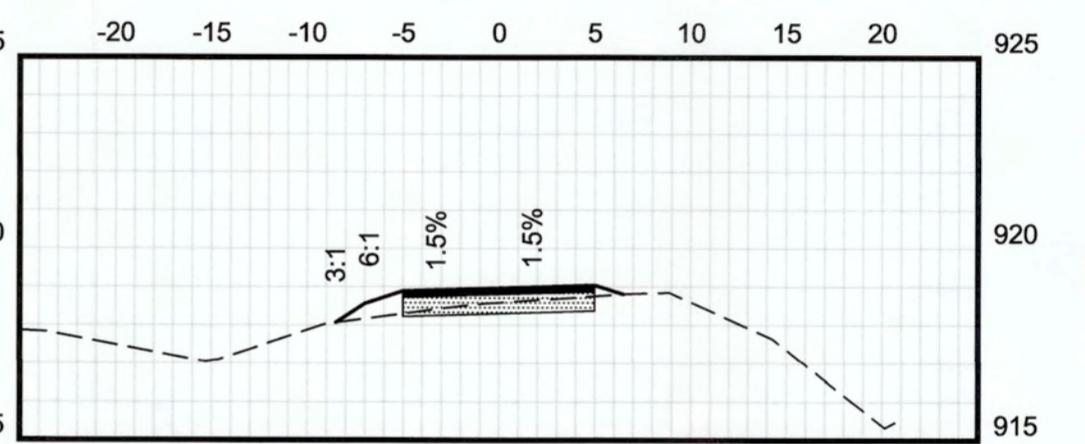
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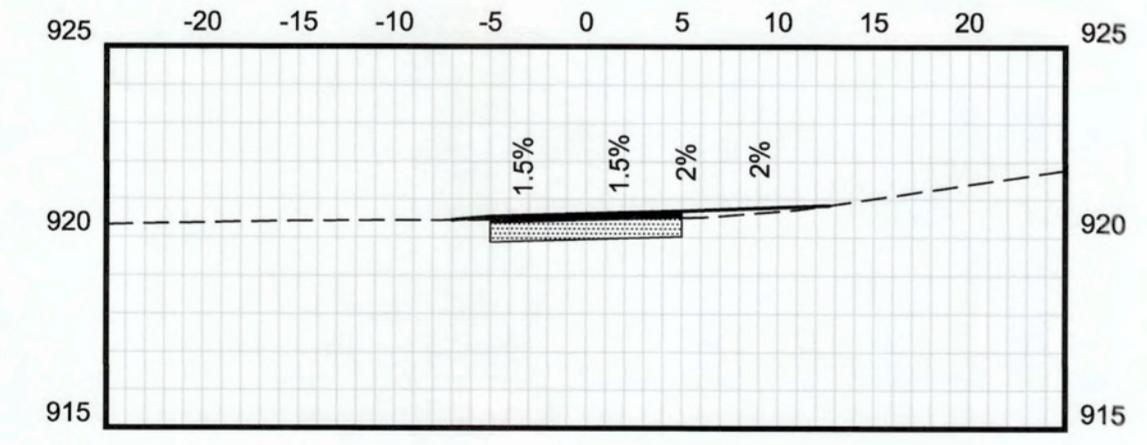
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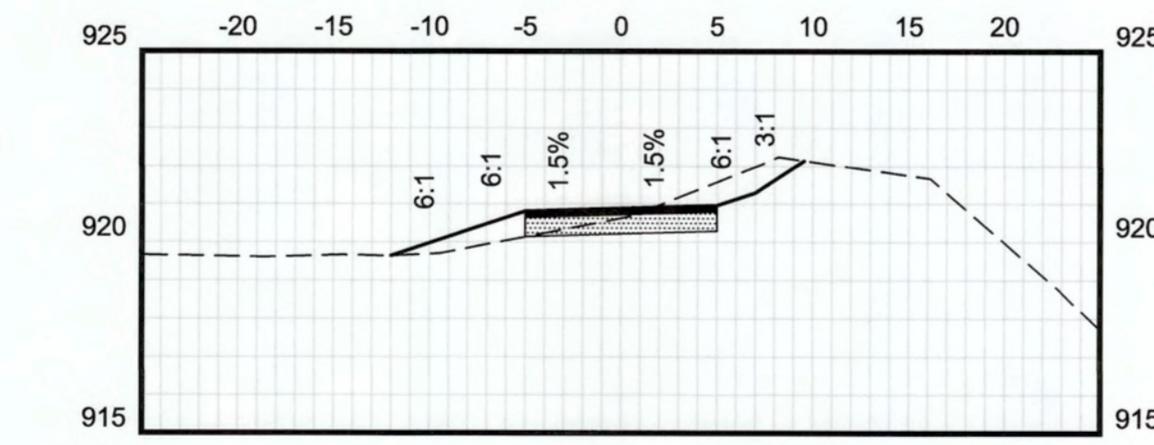
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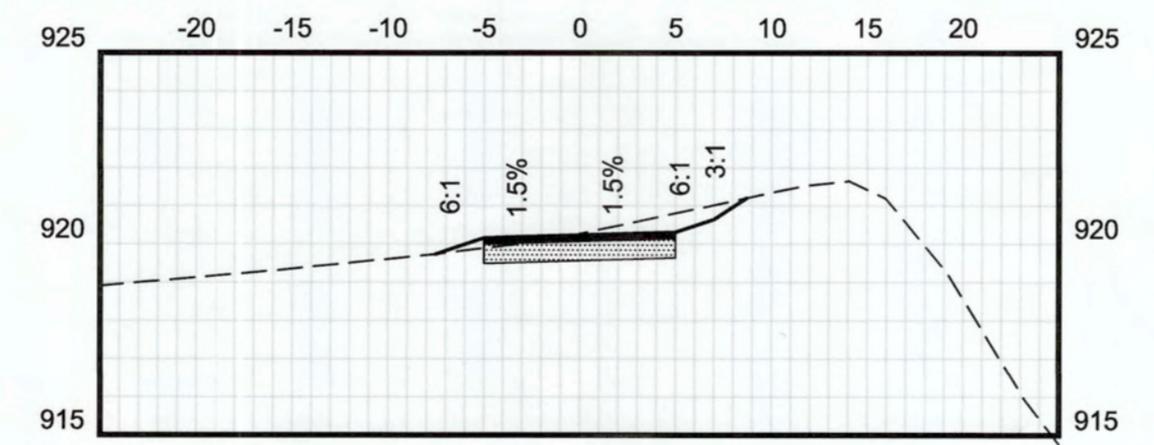
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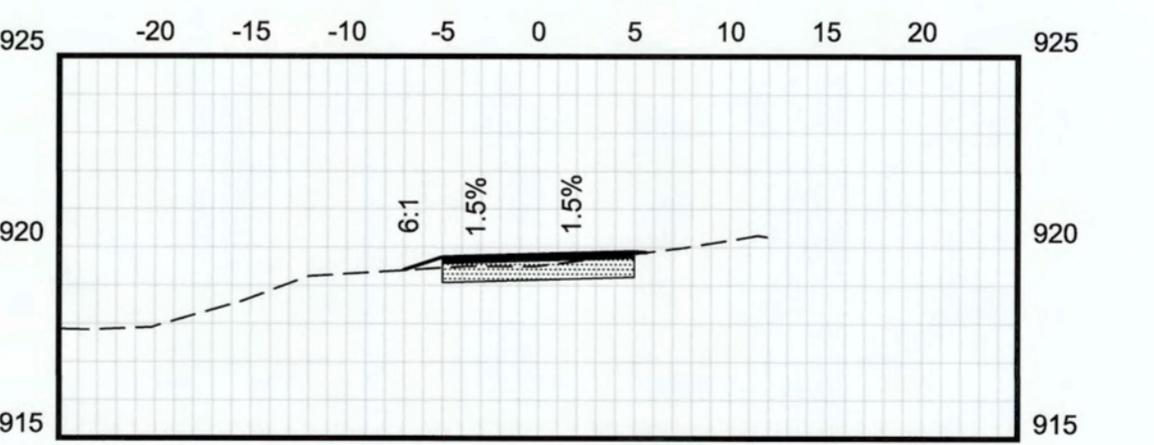
10+25



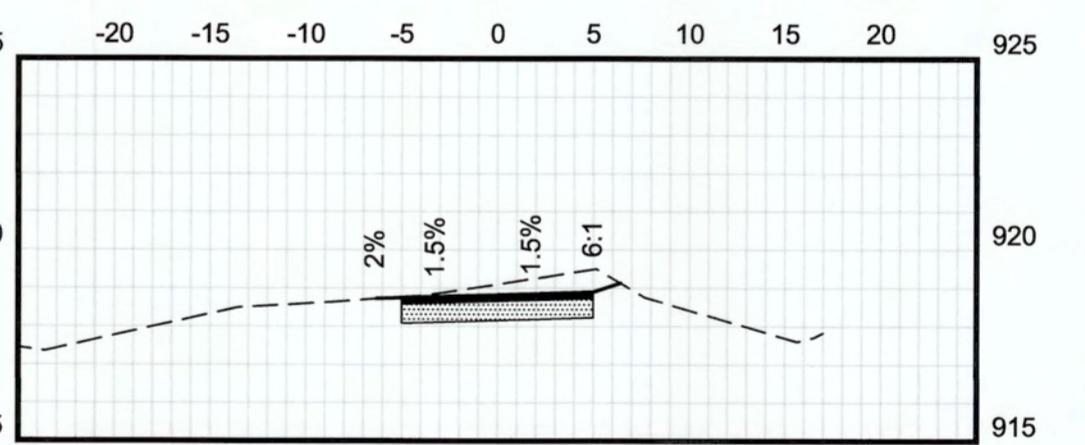
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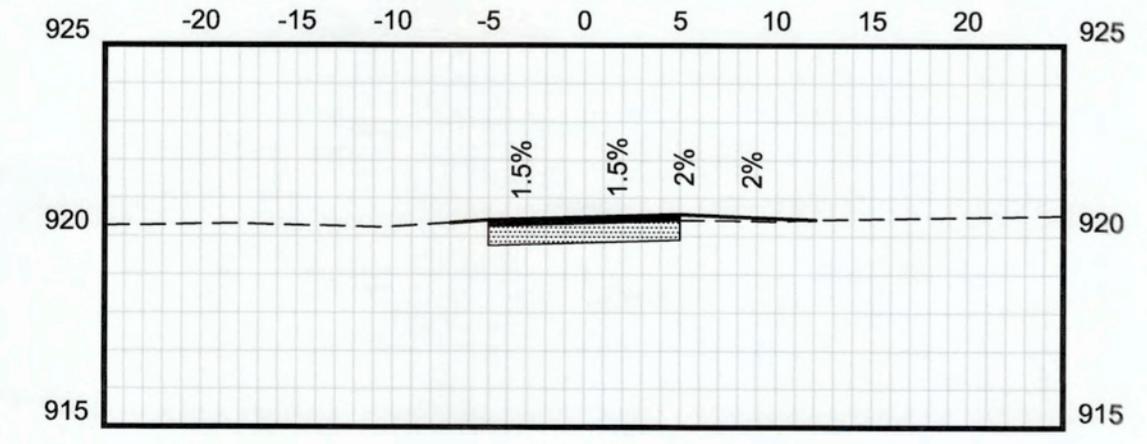
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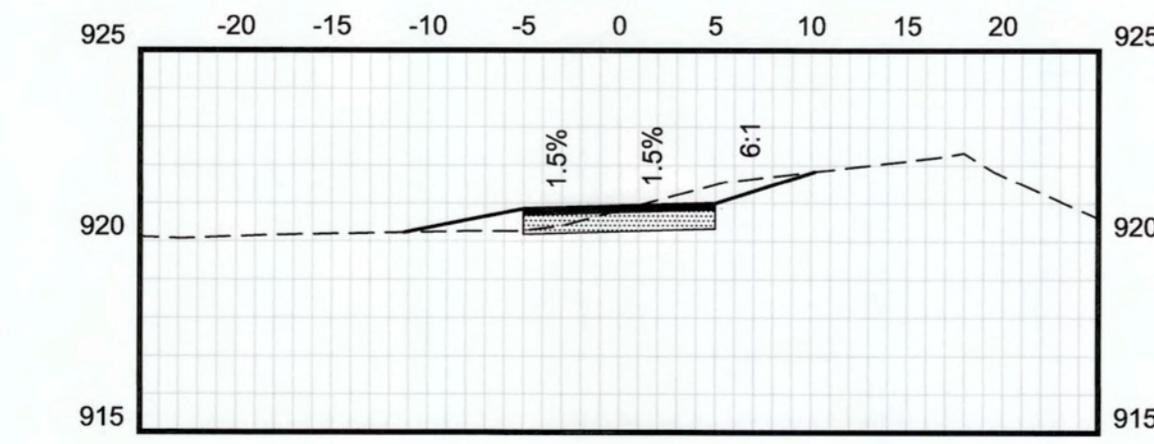
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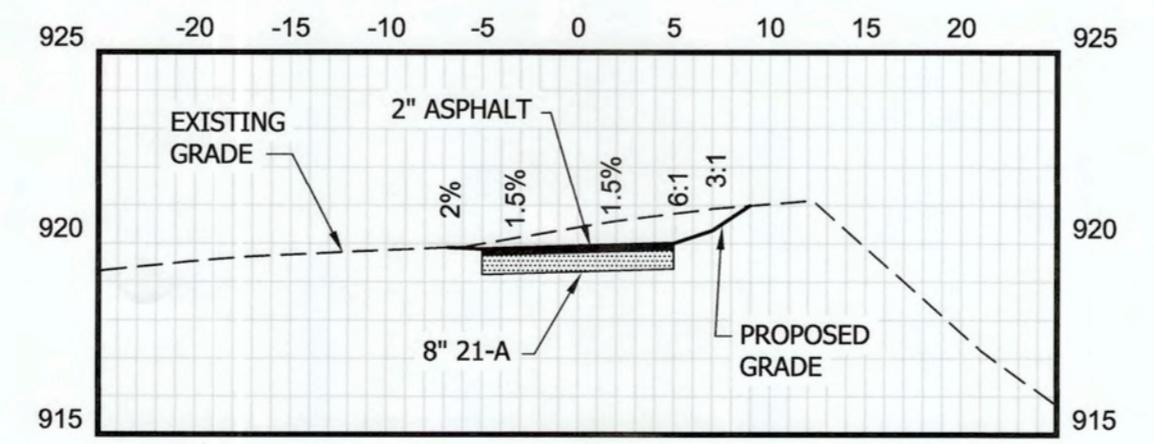
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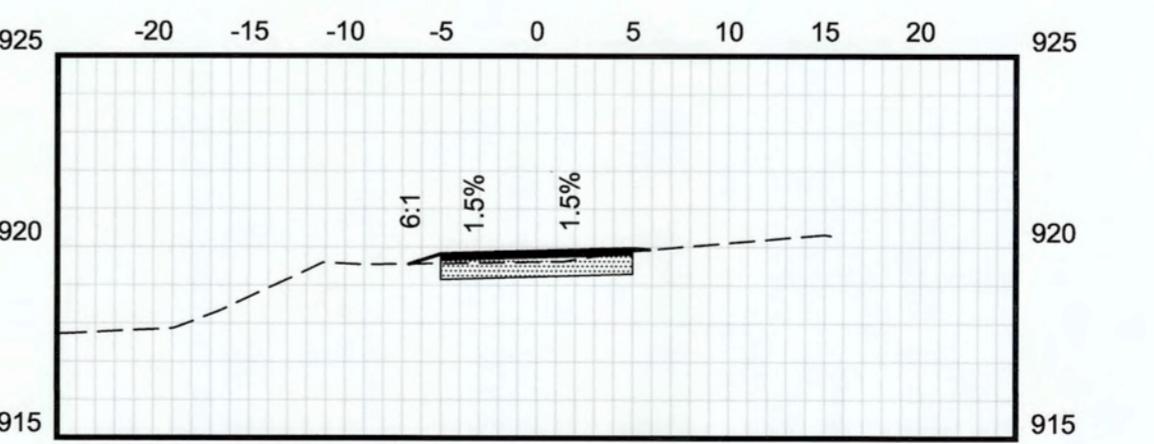
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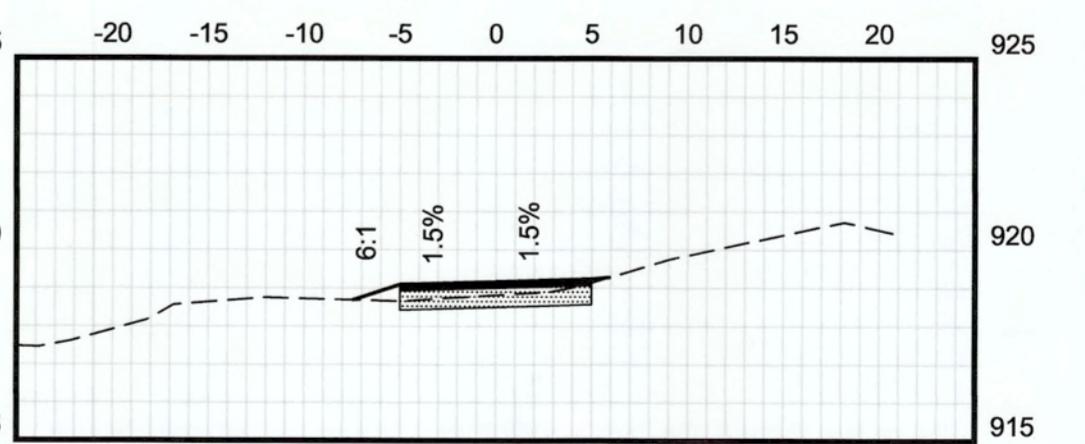
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13+00



14+50

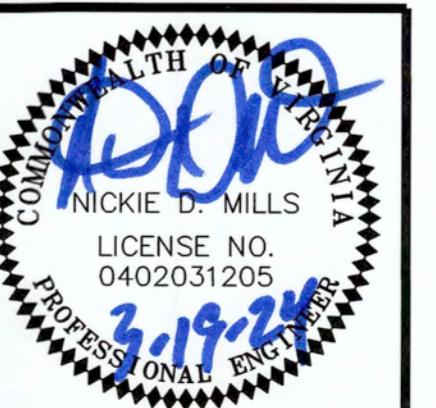


16+00

CROSS SECTIONS

SCALE: HORIZ. 1"= 10' VERT.- 1"= 5'

Roanoke County Dept. of
Development Services
520 Belvoir Drive
P.O. Box 20800
Roanoke, Virginia 24018
Office: (540) 772-2083
Fax: (540) 776-7155



DEPARTMENT OF
DEVELOPMENT
SERVICES

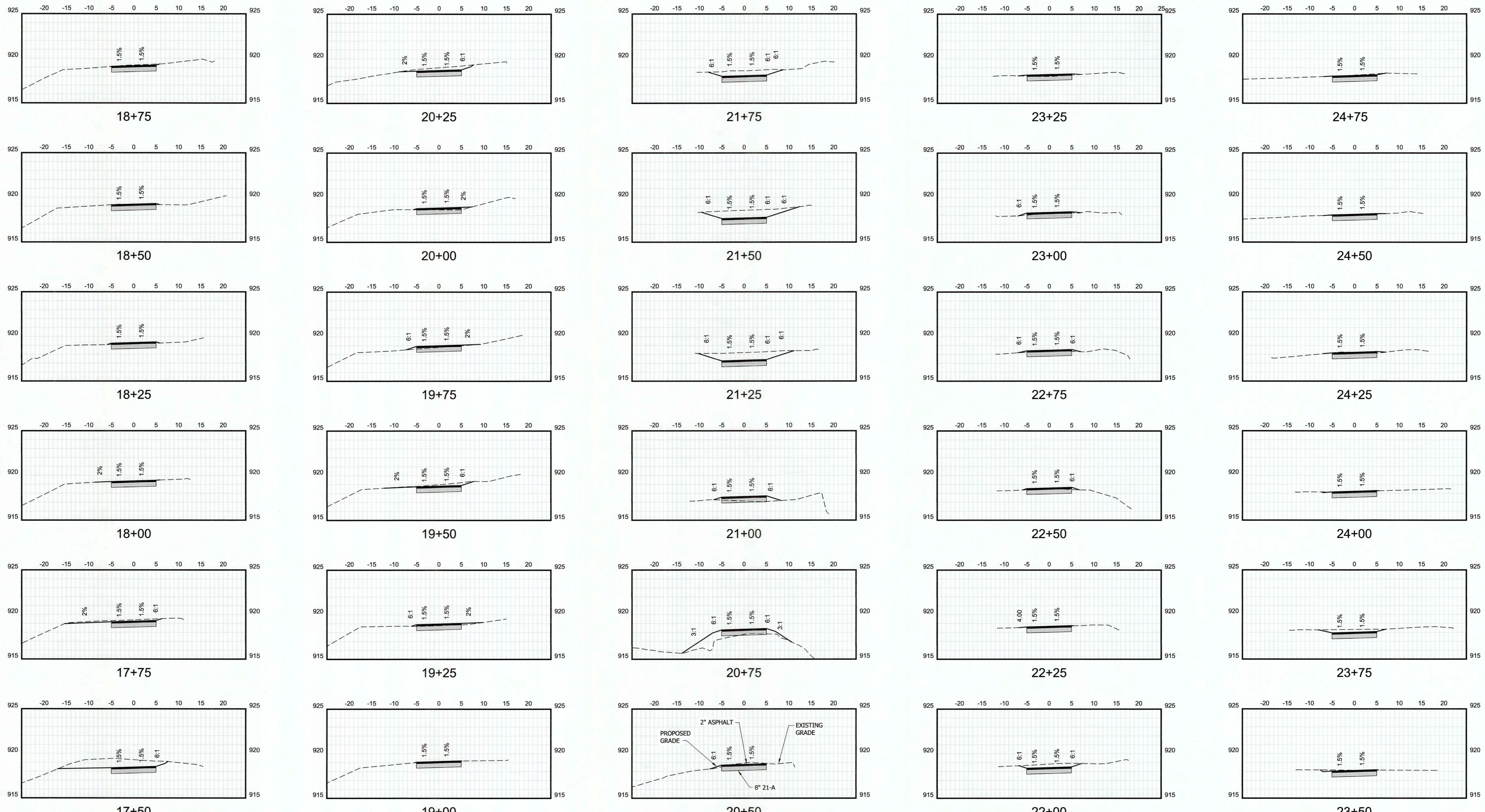
NO.	REVISIONS	DATE
1		
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4		
5		
6		

GLADE CREEK GREENWAY
VINYARD PARK - WEST

DATE: 3/18/2024
SCALE: H- 1"=10' V- 1"=5'
DRAWING BY: BWE
DESIGNED BY: NDM
APPROVED BY: DMH

CROSS
SECTIONS
(STA. 10+00 - 17+25)

SHEET
10
OF
18



CROSS SECTIONS

SCALE: HORIZ. 1"= 10' VERT.- 1"= 5'

ROANOKE COUNTY DEPT. OF
DEVELOPMENT SERVICES
5204 Bernard Drive
P.O. Box 29800
Roanoke, Virginia 24018
Office: (540) 772-2083
Fax: (540) 776-2155



DEPARTMENT OF
DEVELOPMENT
SERVICES

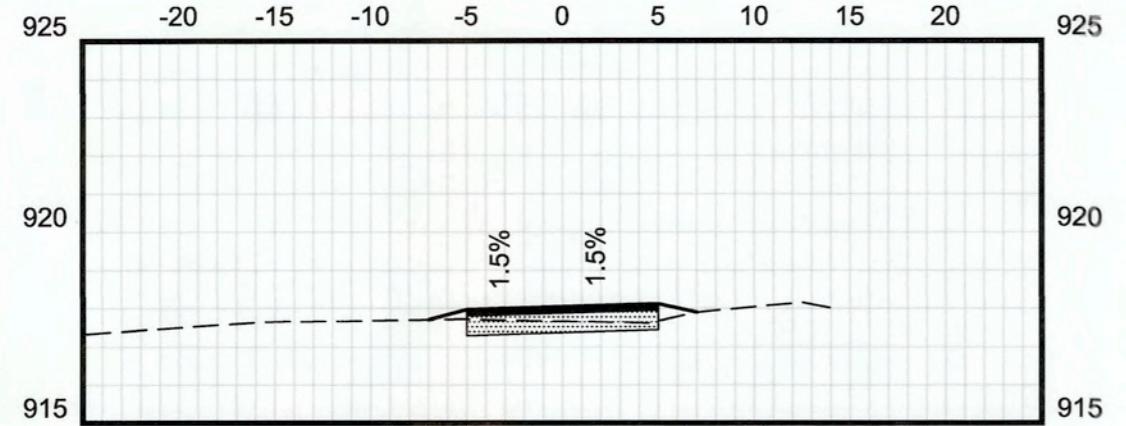
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NO.	REVISIONS	DATE			

GLADE CREEK GREENWAY
VINYARD PARK - WEST

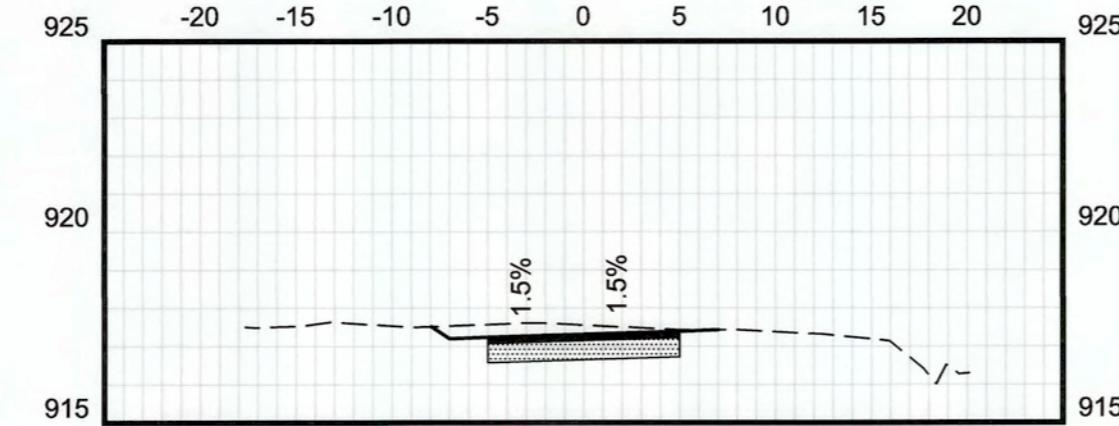
DATE:	3/18/2024
SCALE:	H- 1"= 10' V- 1"= 5'
DRAWING BY:	BWE
DESIGNED BY:	NDM
APPROVED BY:	DMH

CROSS
SECTIONS
(STA. 17+50 - 24+75)

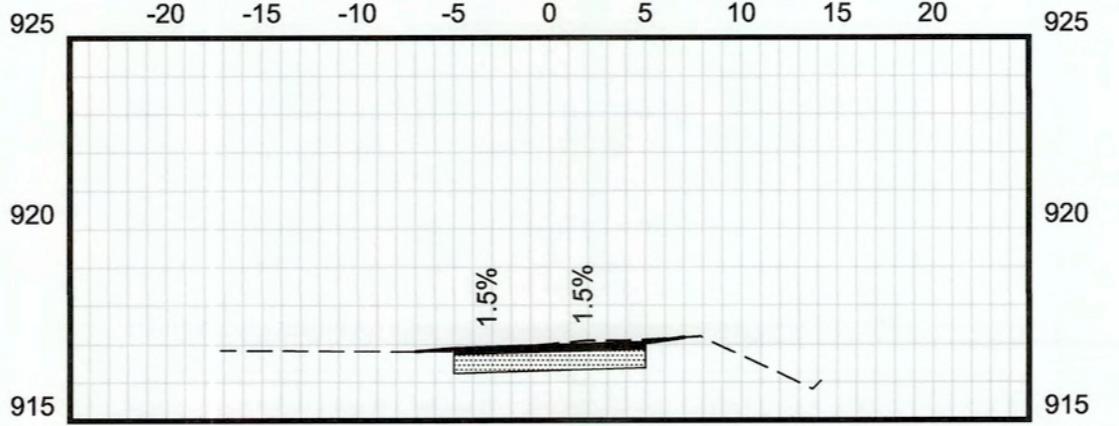
SHEET
11
OF
18



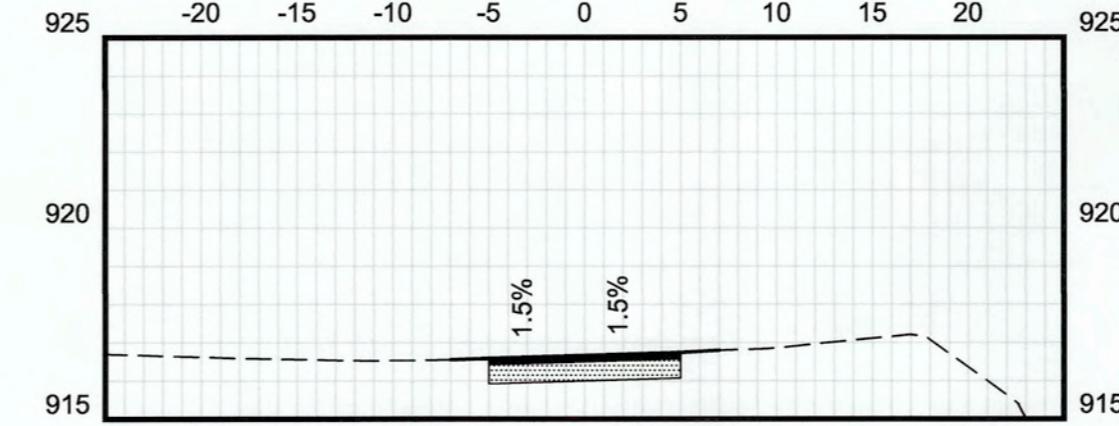
26+25



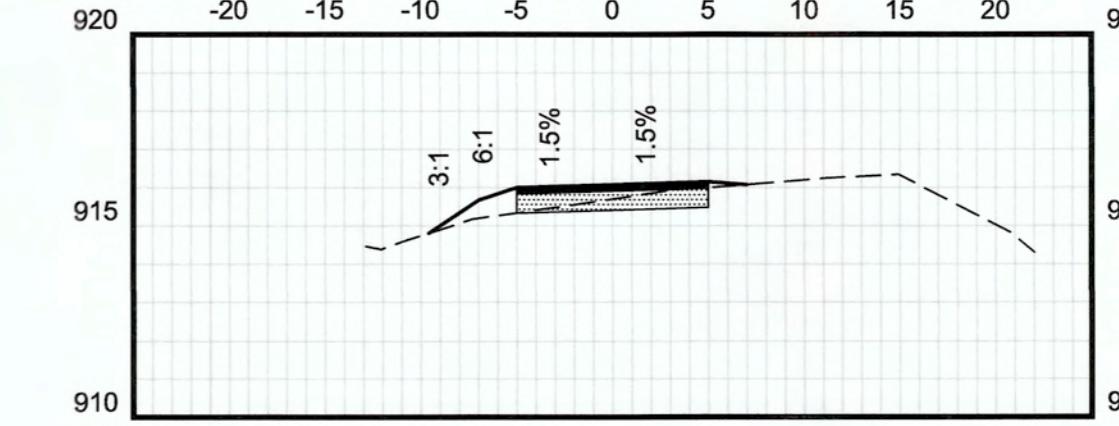
27+75



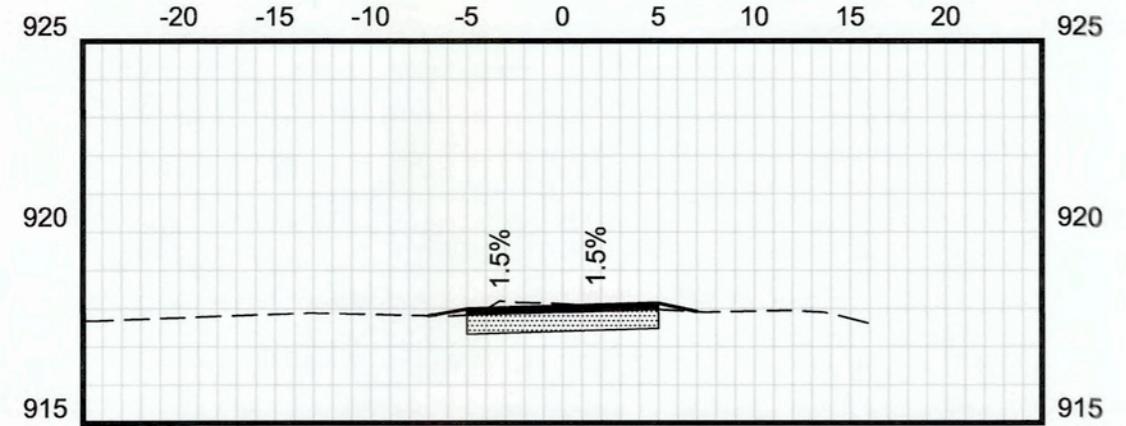
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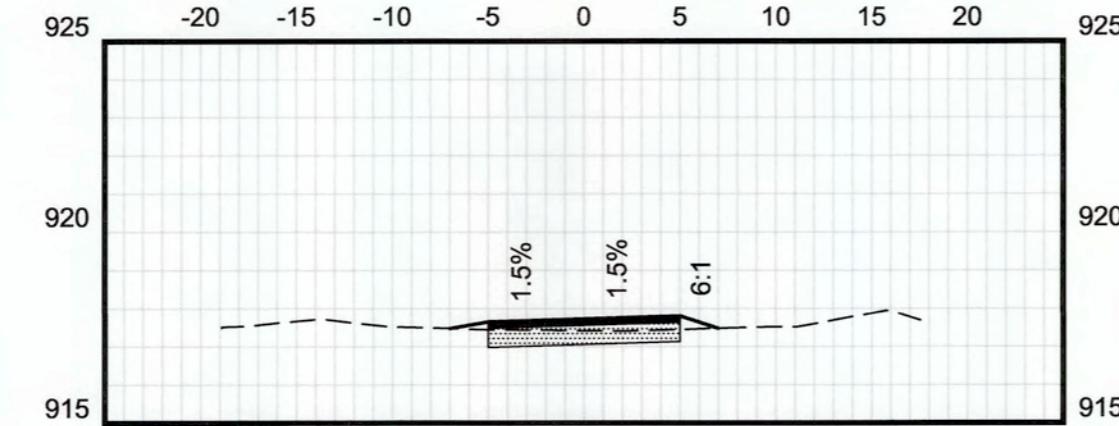
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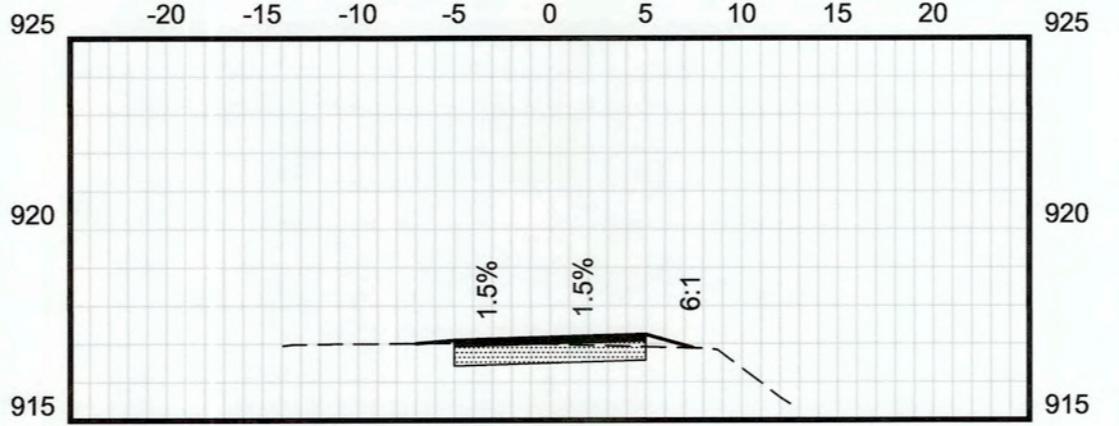
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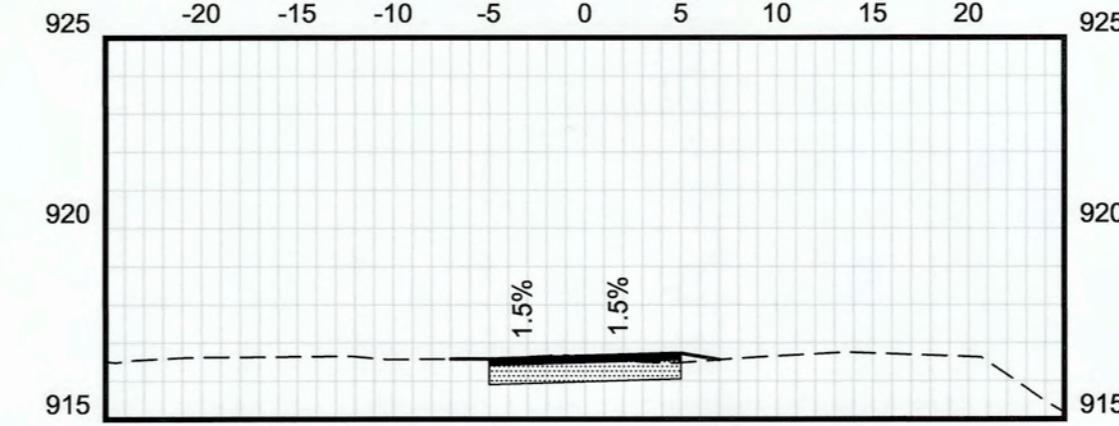
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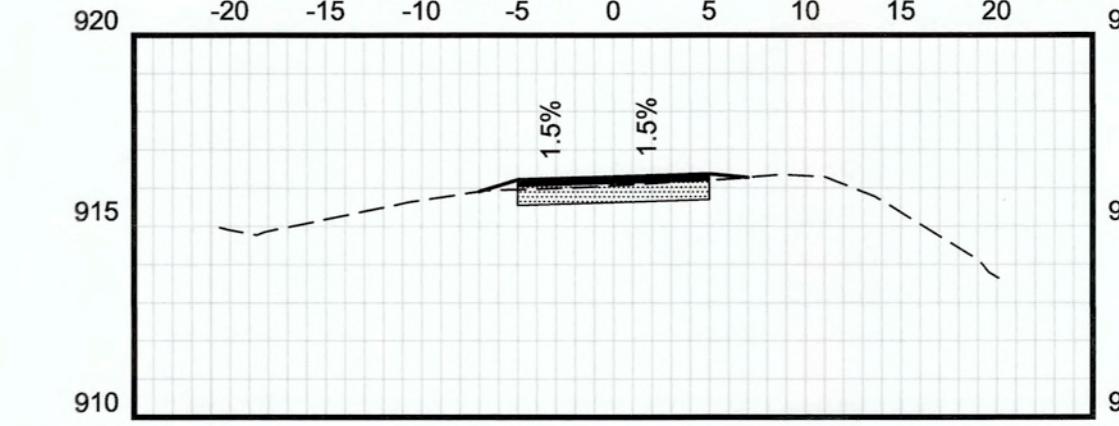
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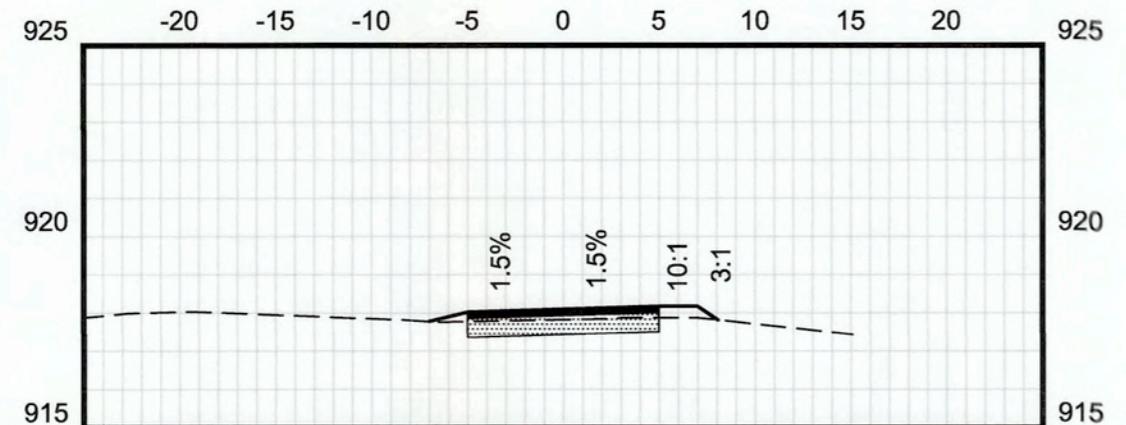
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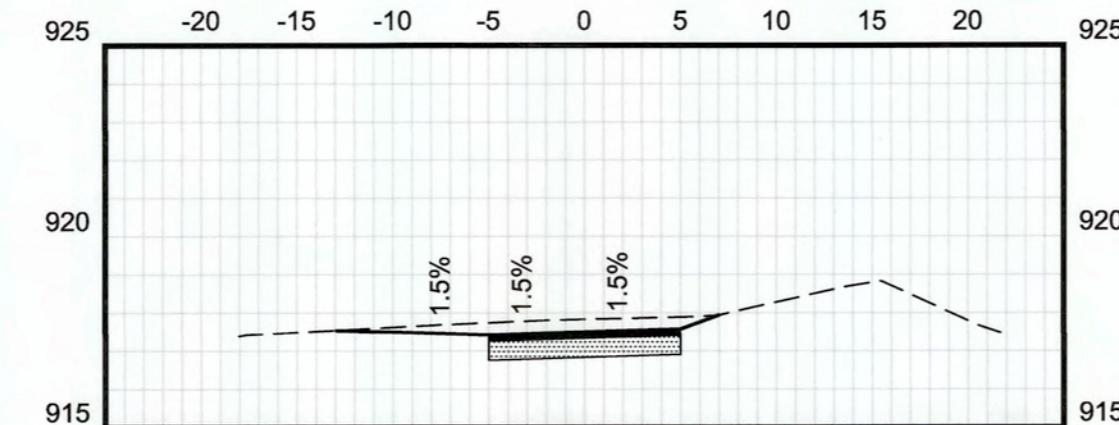
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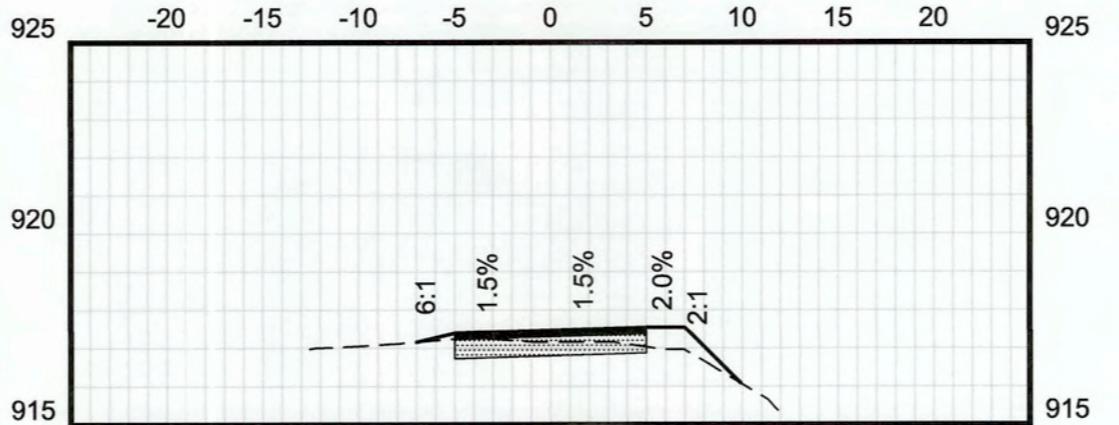
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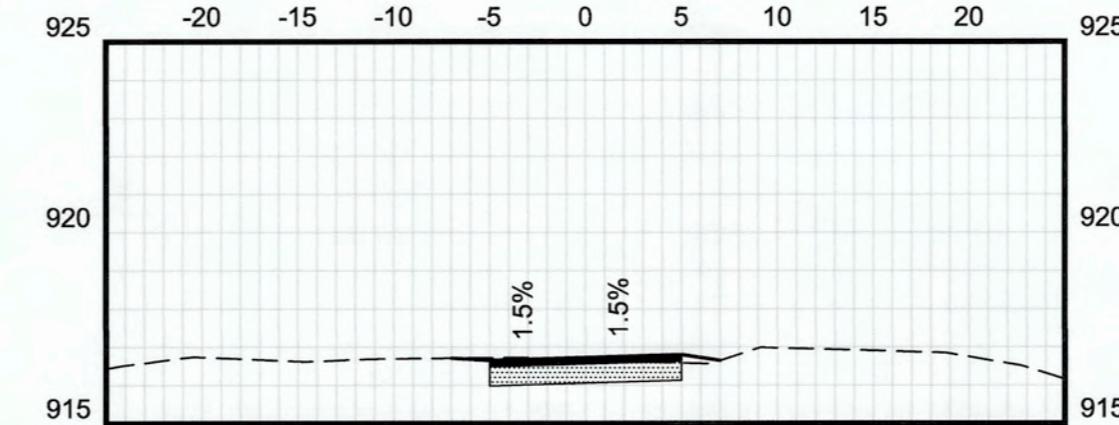
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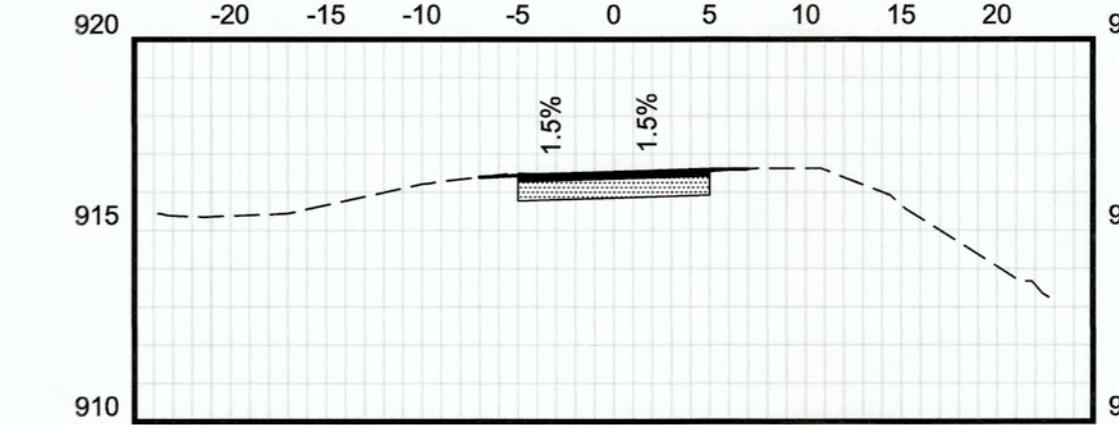
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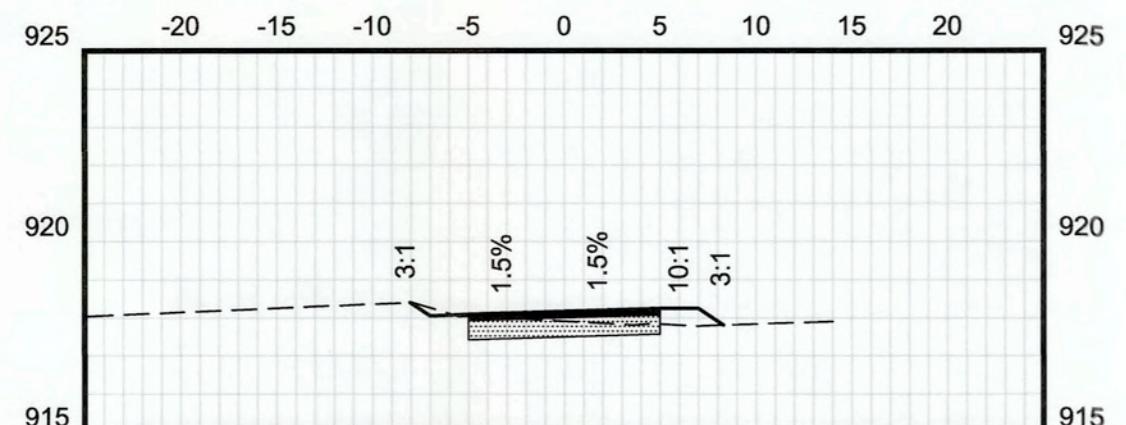
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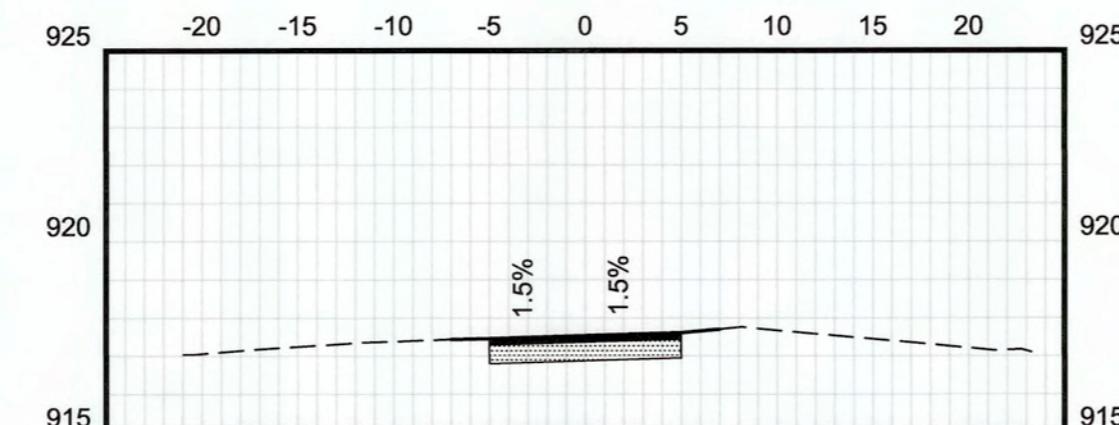
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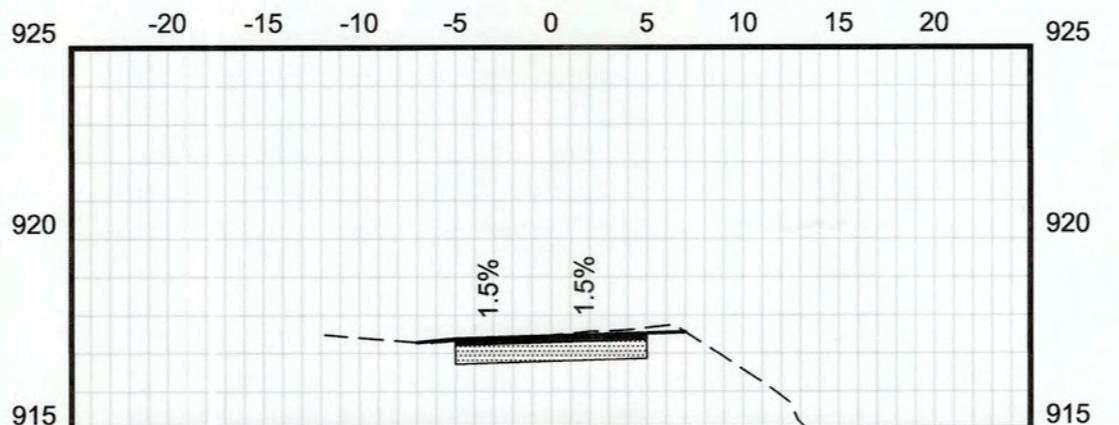
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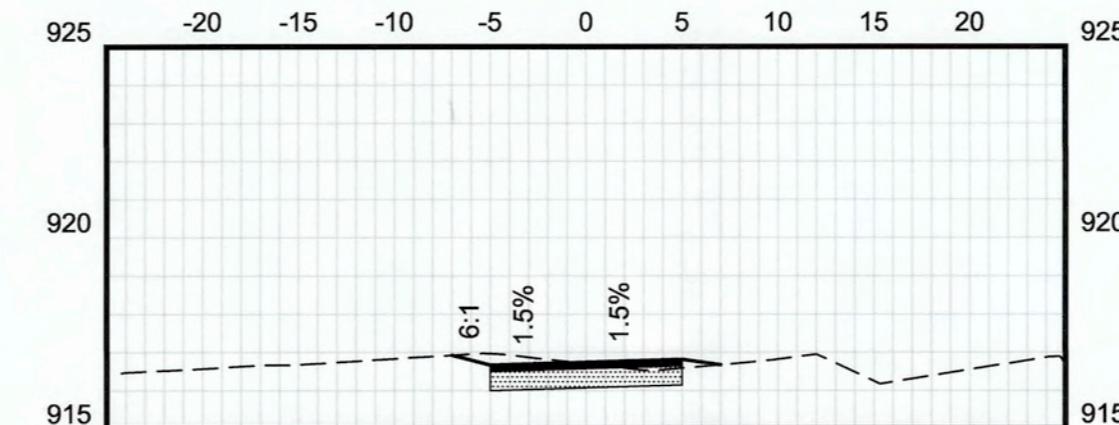
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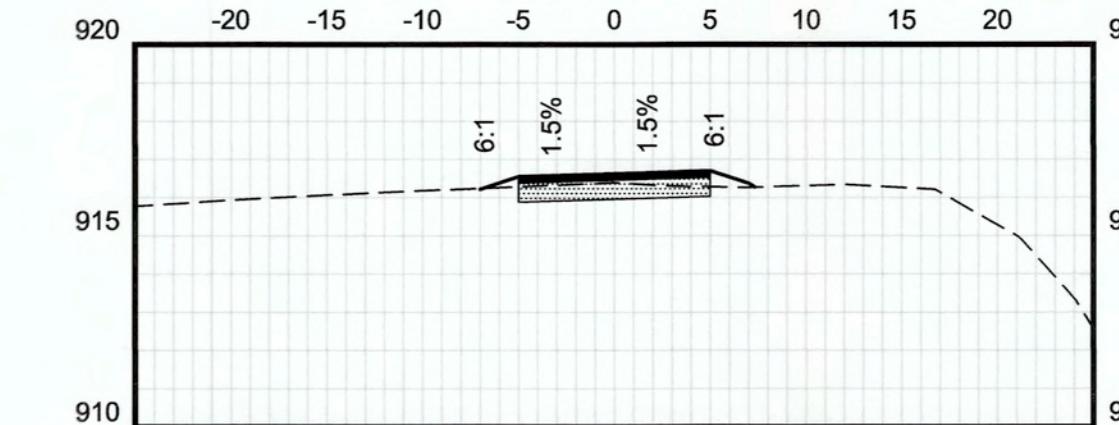
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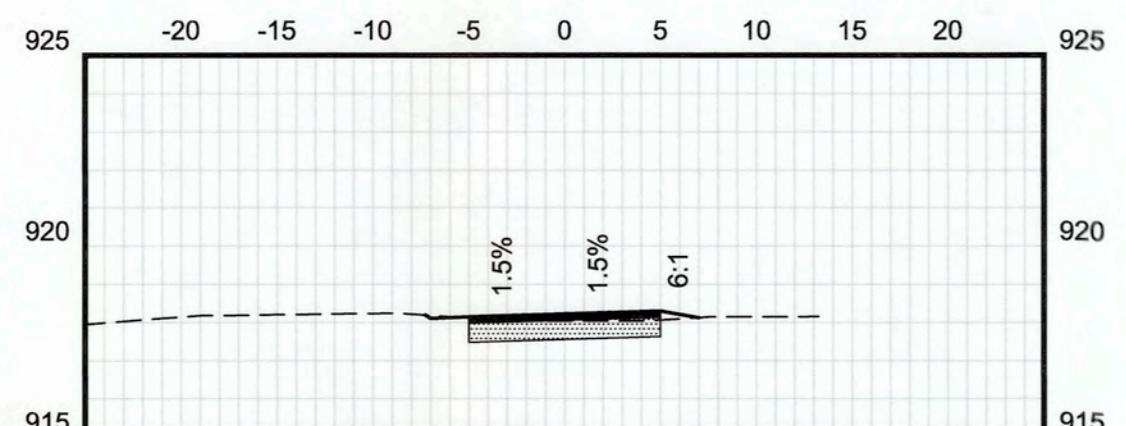
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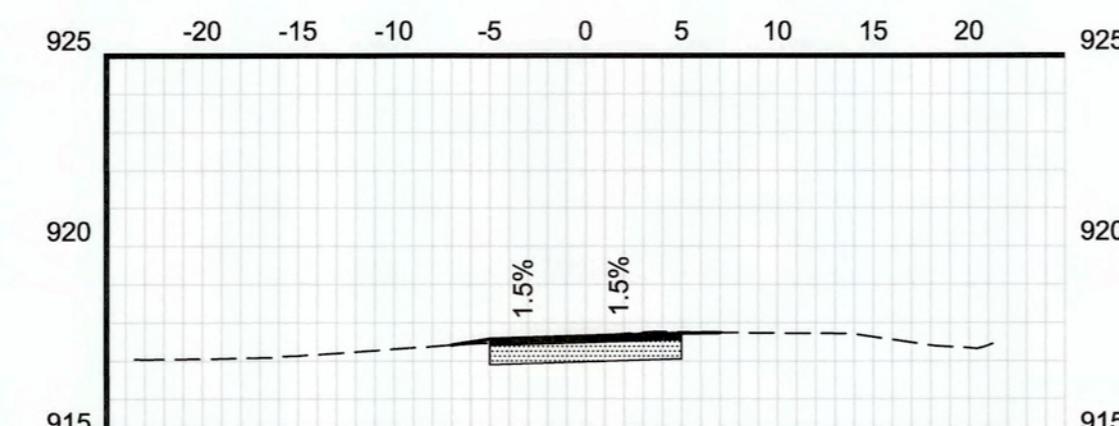
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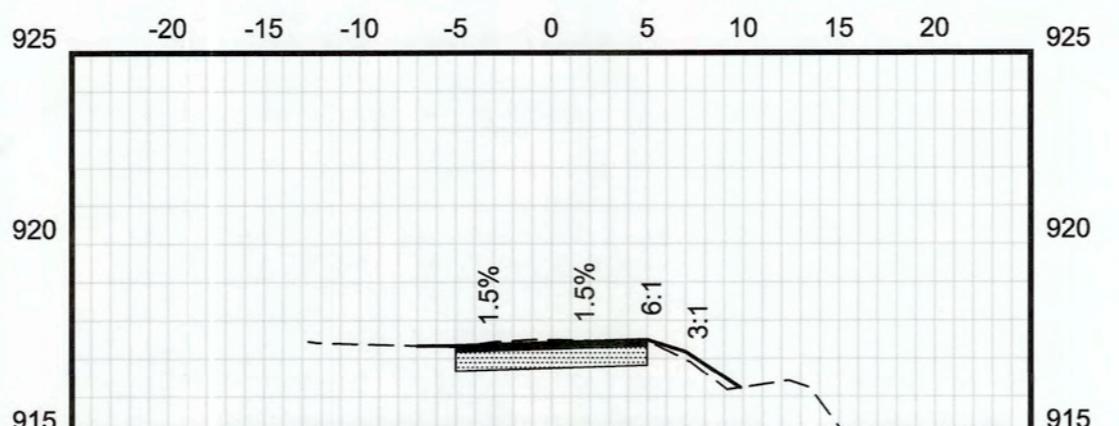
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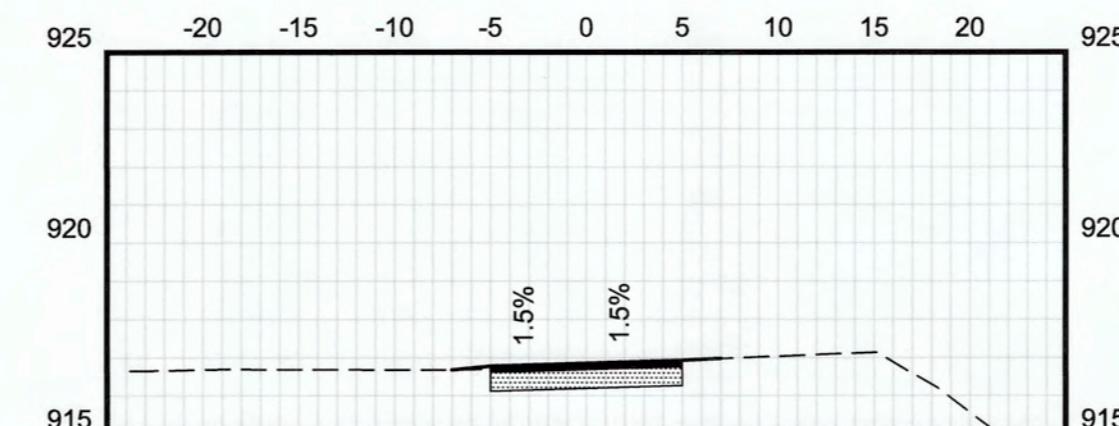
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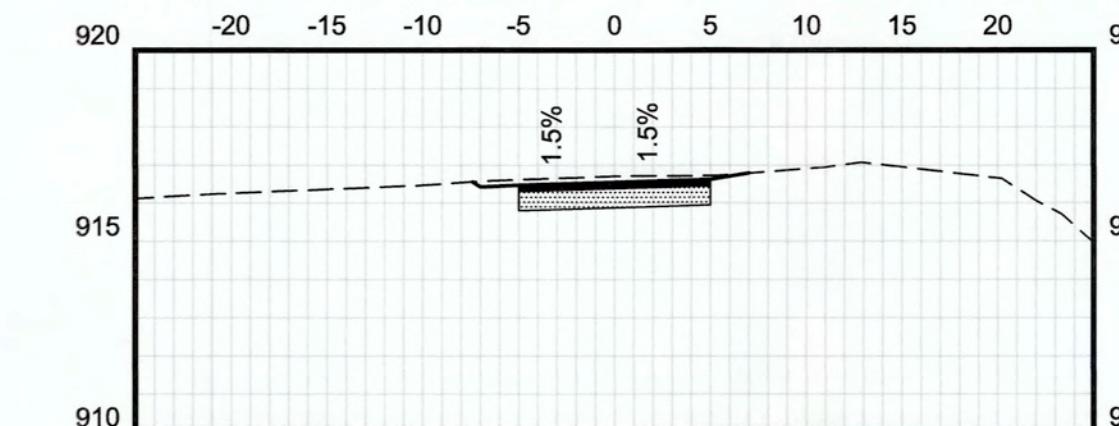
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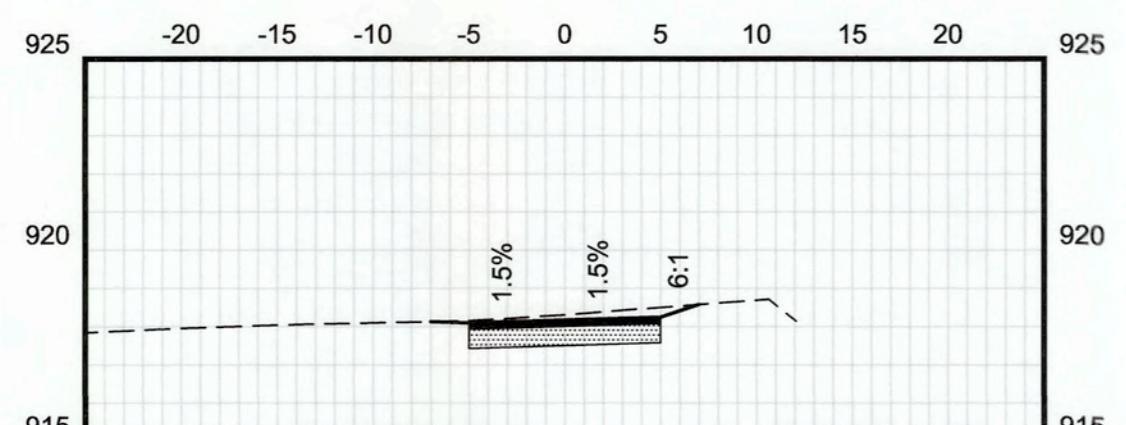
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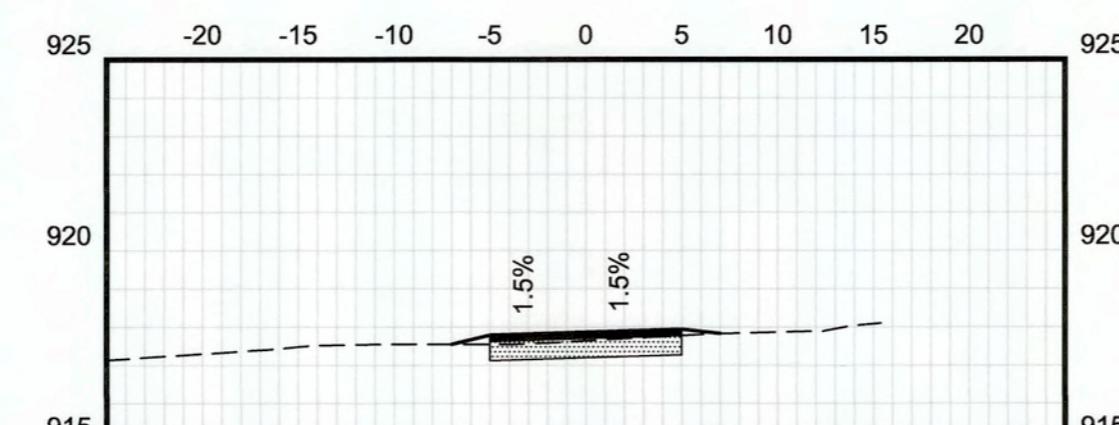
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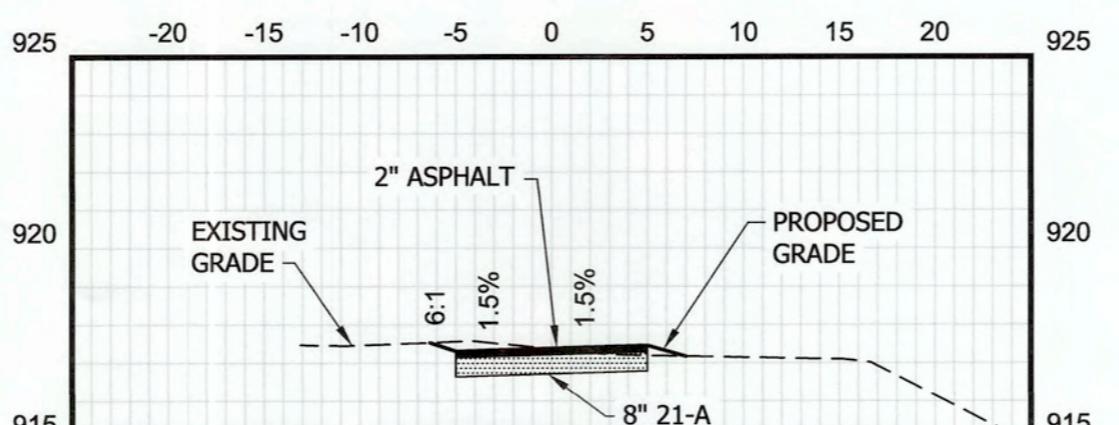
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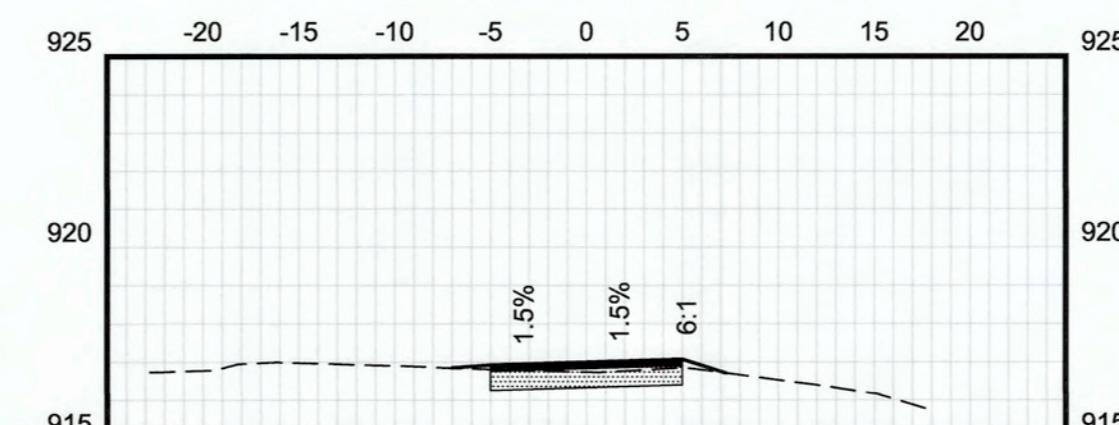
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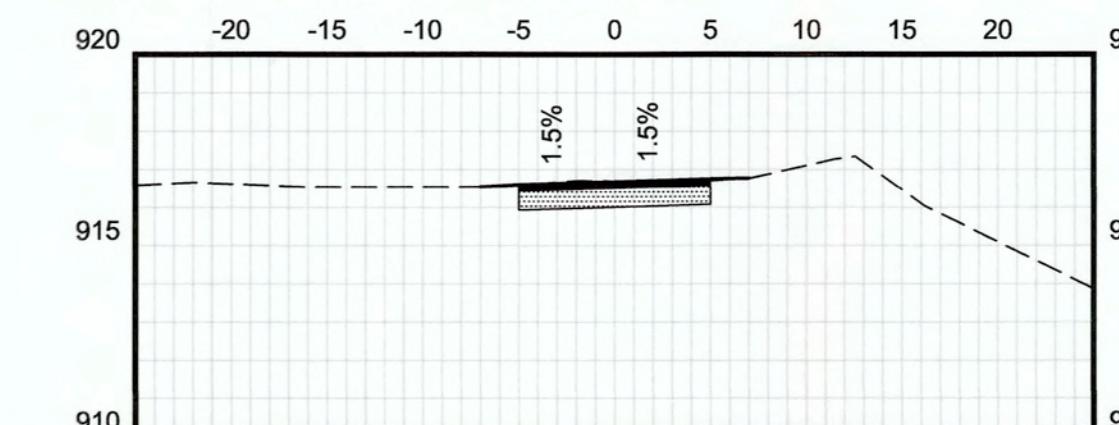
26+50



28+00



29+50



31+00

CROSS SECTIONS

SCALE: H- 1"= 10' V- 1"= 5'

DEPARTMENT OF
DEVELOPMENT
SERVICES

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

GLADE CREEK GREENWAY VINYARD PARK - WEST

DATE: 3/18/2024
SCALE: H- 1"= 10' V- 1"= 5'
DRAWING BY: BWE
DESIGNED BY: NDM
APPROVED BY: DMH



ROANOKE COUNTY, VIRGINIA
1858



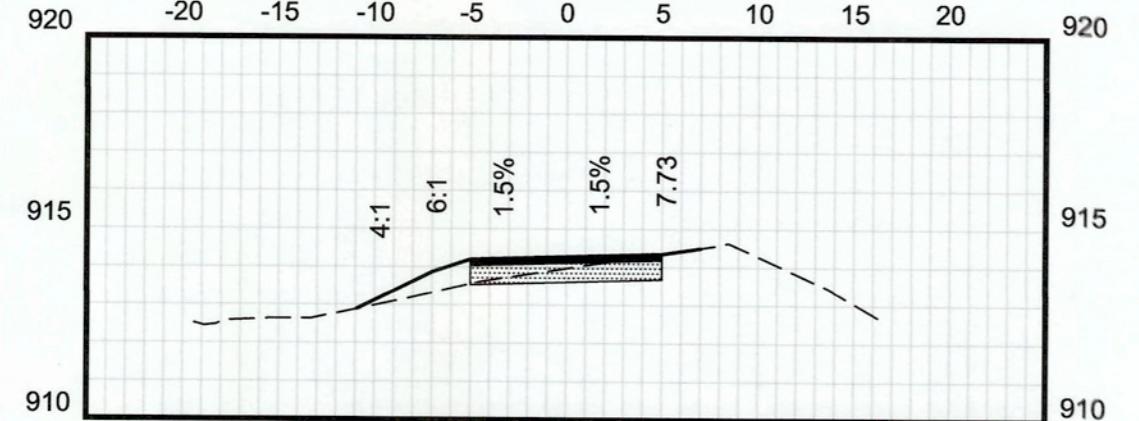
NICKIE D. MILLS
PROFESSIONAL ENGINEER
3-18-24

Drawing name: C:\Brian Drawings\Glade Creek Greenway 2023 Plan Sheets\Cross Sections.dwg

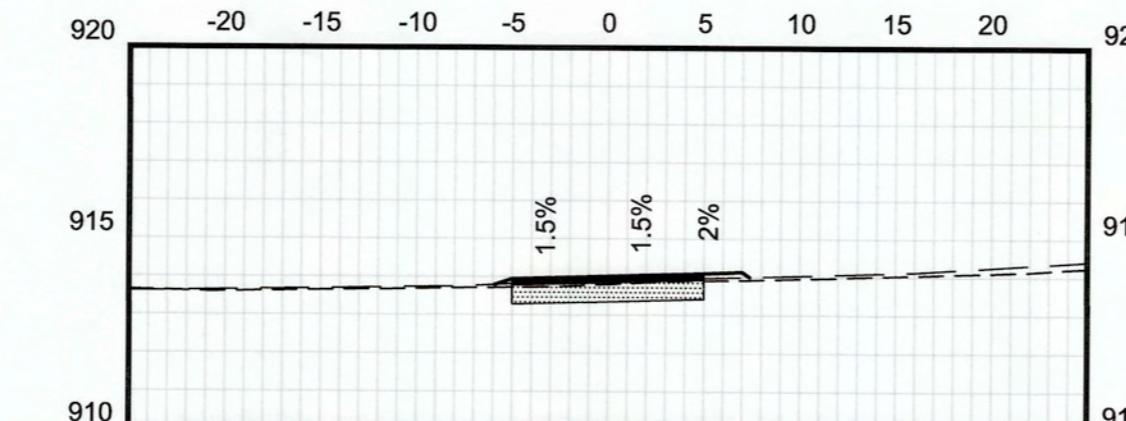
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SHEET
12
OF
18

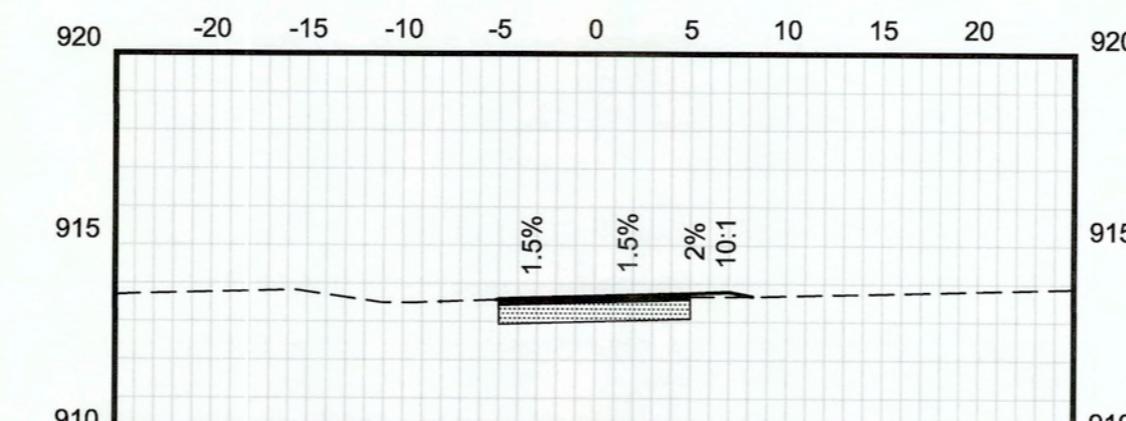
APPROVED: 5/1/2024



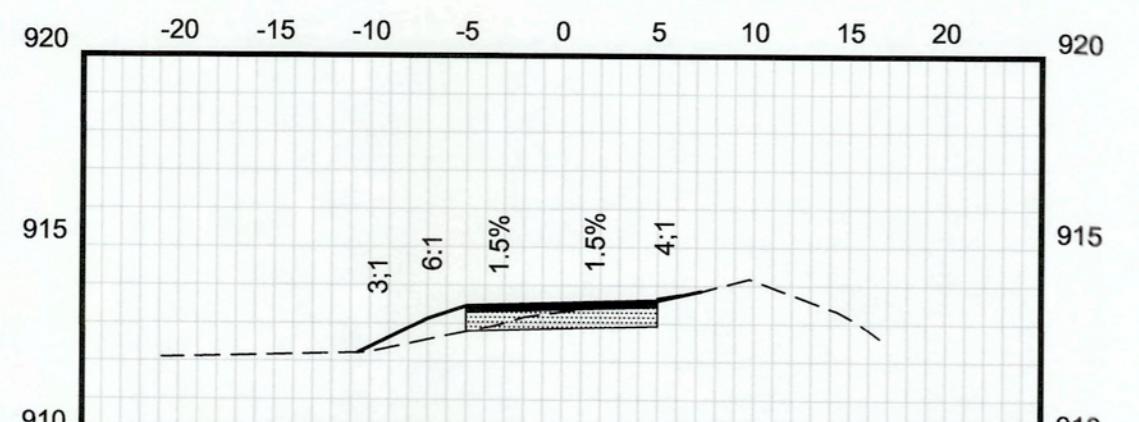
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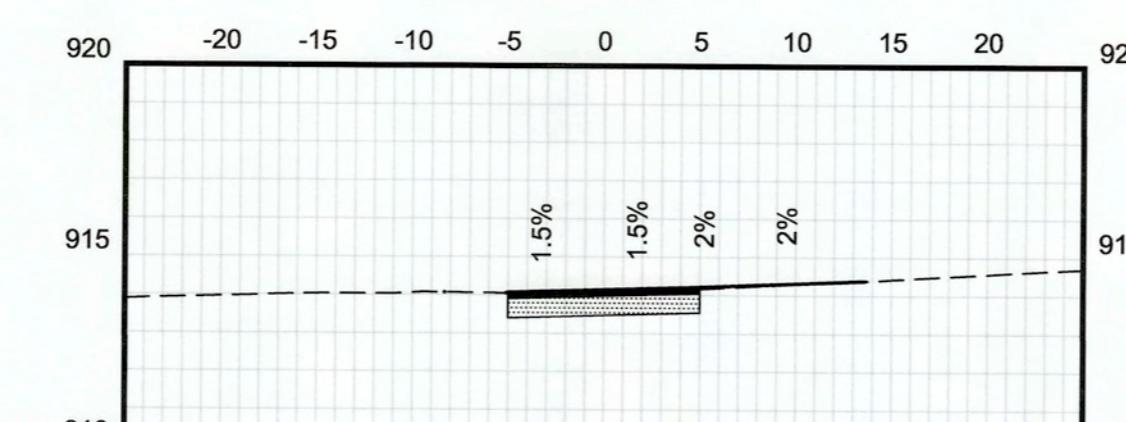
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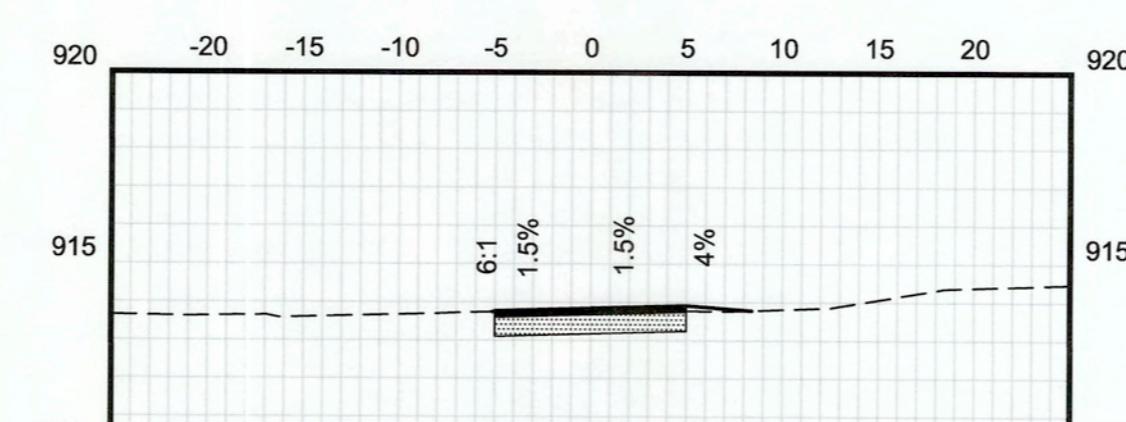
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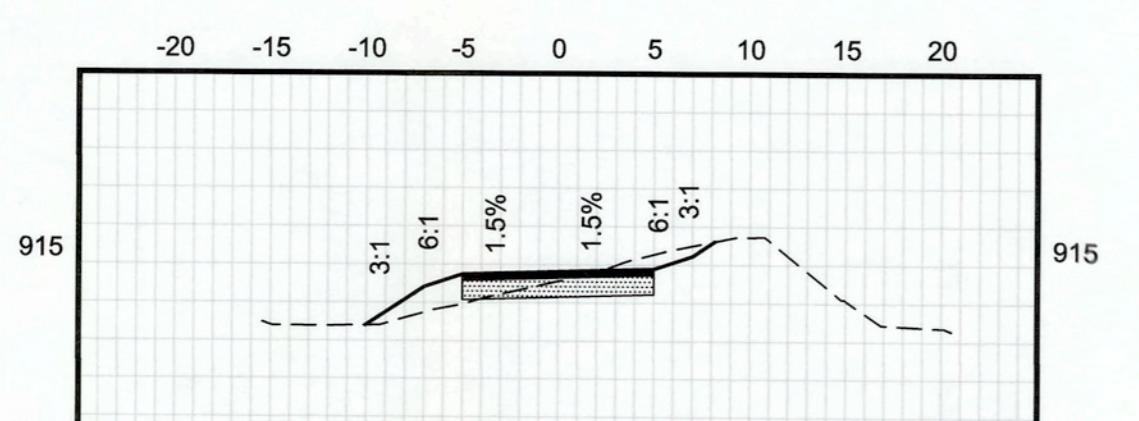
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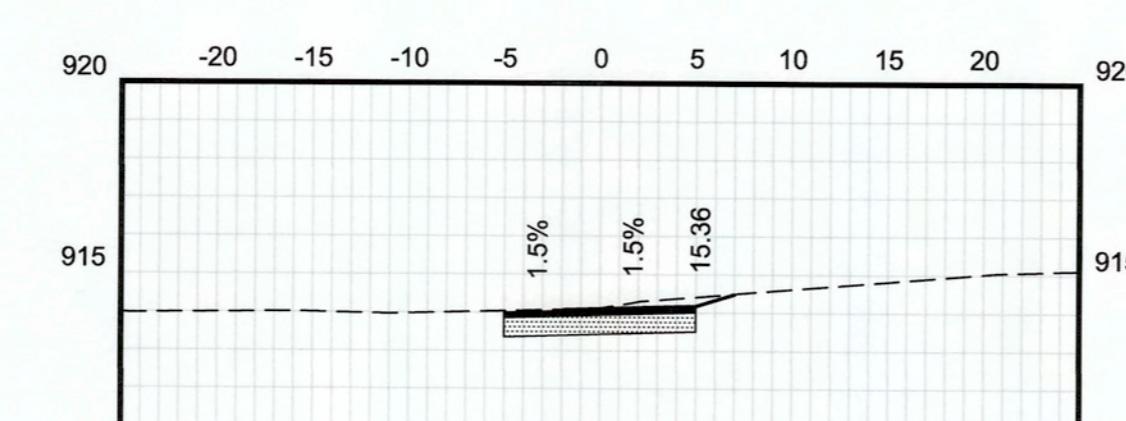
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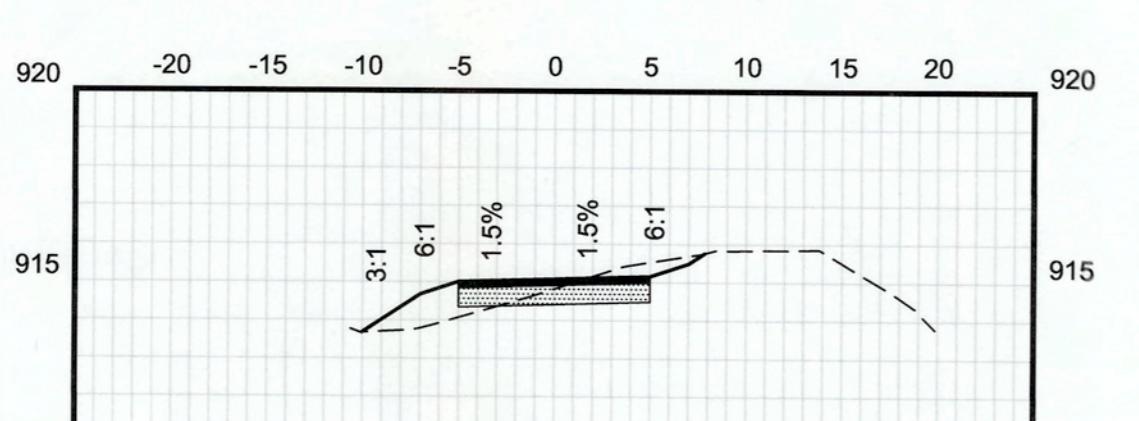
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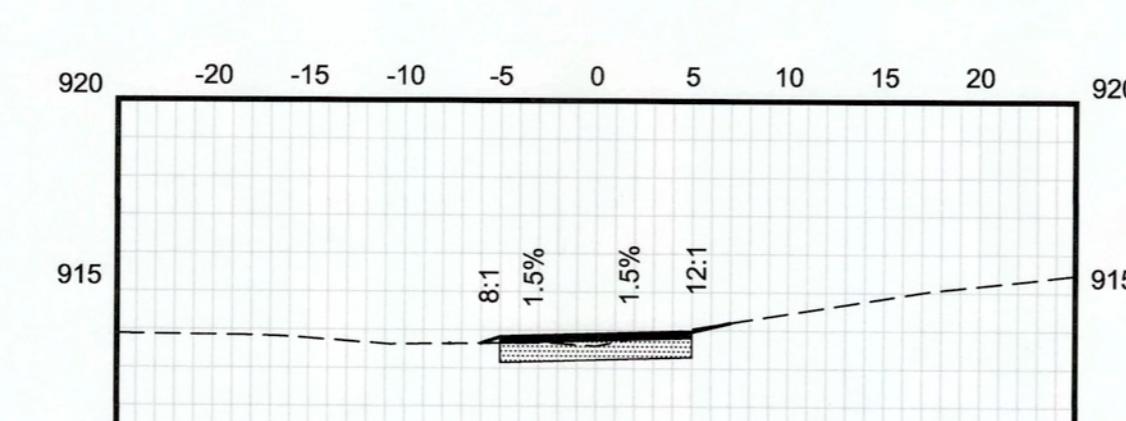
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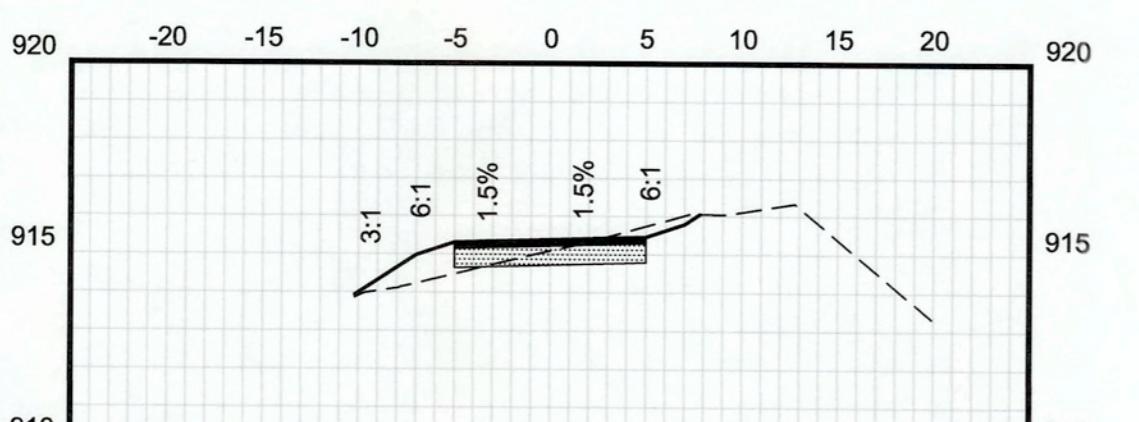
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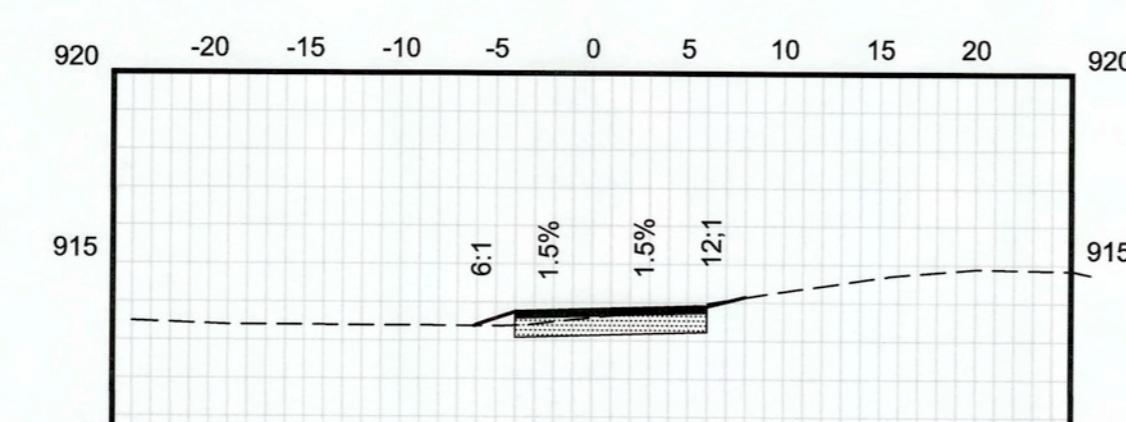
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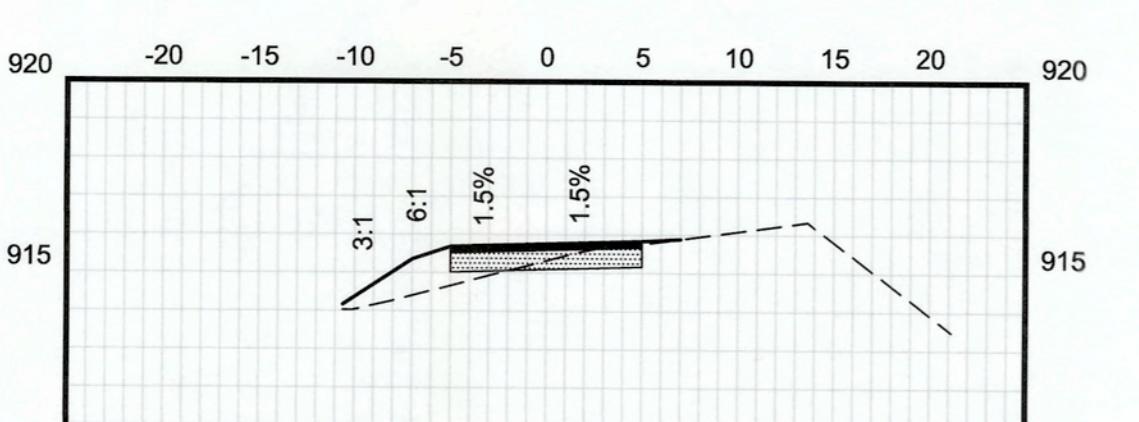
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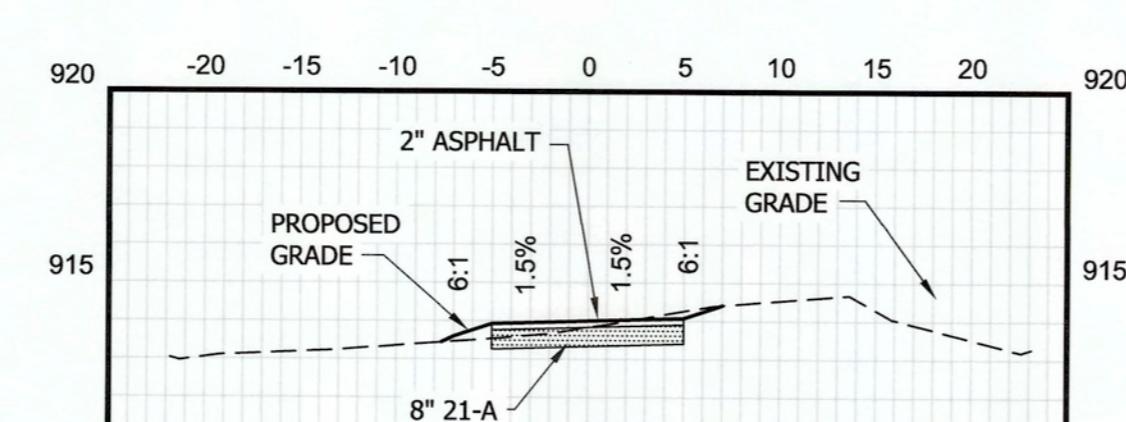
32+75



34+25



32+50



34+00

CROSS SECTIONS

SCALE: HORIZ. 1"= 10' VERT.- 1"= 5'



DEPARTMENT OF
DEVELOPMENT
SERVICES

1	
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NO. REVISIONS DATE

GLADE CREEK GREENWAY
VINYARD PARK - WEST

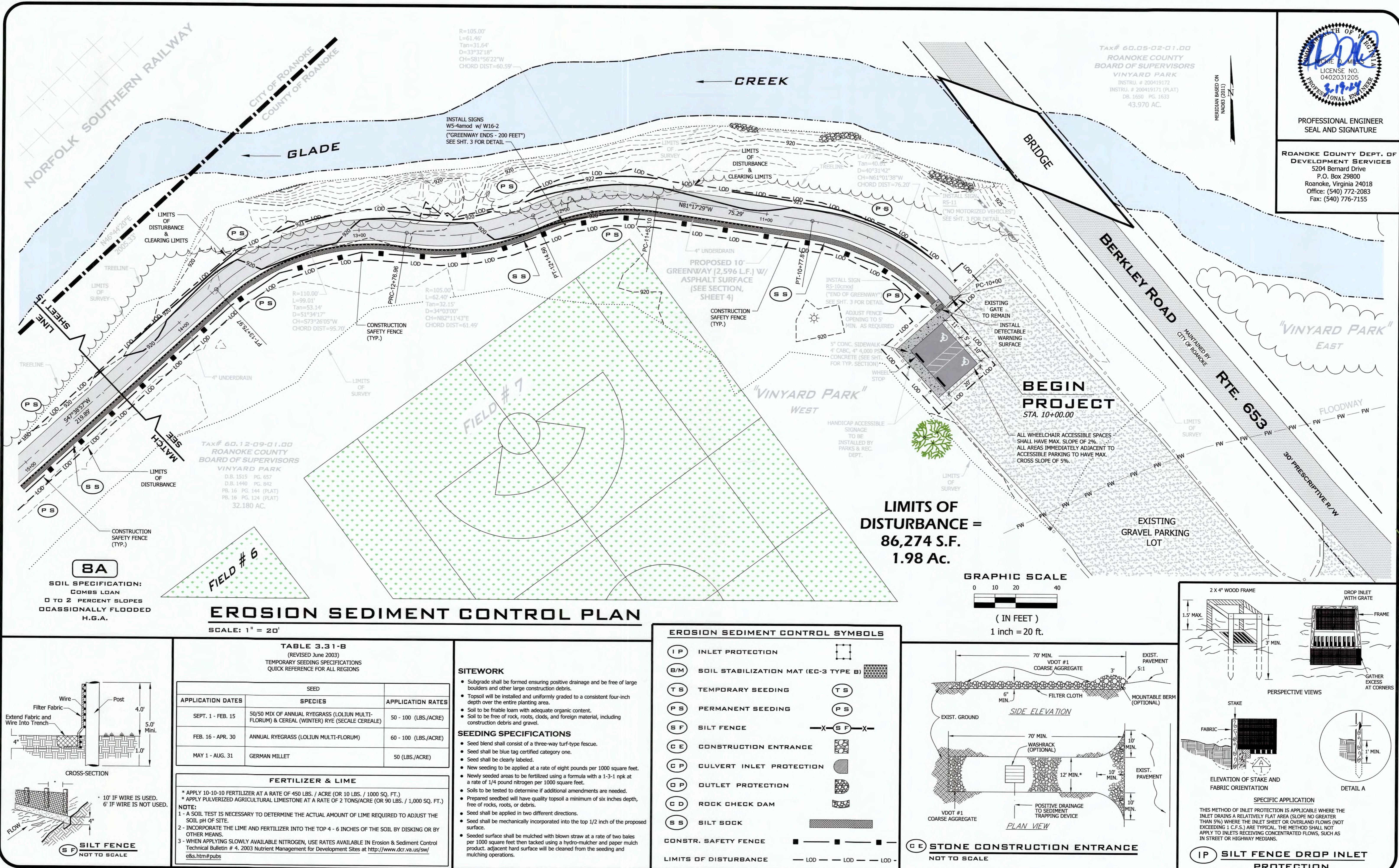
DATE: 3/18/2024
SCALE: H- 1"=10' V- 1"=5'
DRAWING BY: BWE
DESIGNED BY: NDM
APPROVED BY: DMH

CROSS
SECTIONS
(STA. 32+50 - 35+75)

SHEET
13
OF
18



ROANOKE COUNTY DEPT. OF
DEVELOPMENT SERVICES
5204 Bernard Drive
P.O. Box 20900
Roanoke, Virginia 24018
Office: (540) 772-2083
Fax: (540) 776-7155



DEPARTMENT OF
DEVELOPMENT
SERVICES

1	
2	
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GLADE CREEK GREENWAY
VINYARD PARK - WEST

DATE:	3/18/2024
SCALE:	1" = 20'
DRAWING BY:	BWE
DESIGNED BY:	NDM
APPROVED BY:	DMH



EROSION & SEDIMENT
CONTROL PLAN
(STA. 10+00 - 15+00)

SHEET
14
OF
18



ROANOKE COUNTY DEPT. OF
DEVELOPMENT SERVICES
5204 Bernard Drive
P.O. Box 29800
Roanoke, Virginia 24018
Office: (540) 776-2083
Fax: (540) 776-7155

MERIDIAN BASED ON
NAVD 2011

3.19.24

PROFESSIONAL ENGINEER

SEAL AND SIGNATURE

APPROVED, 5/1/2024

BY: BWE

ON: 3/18/2024

FOR: Glade Creek Greenway

Project

Sheet 14 of 18

Page 14 of 18

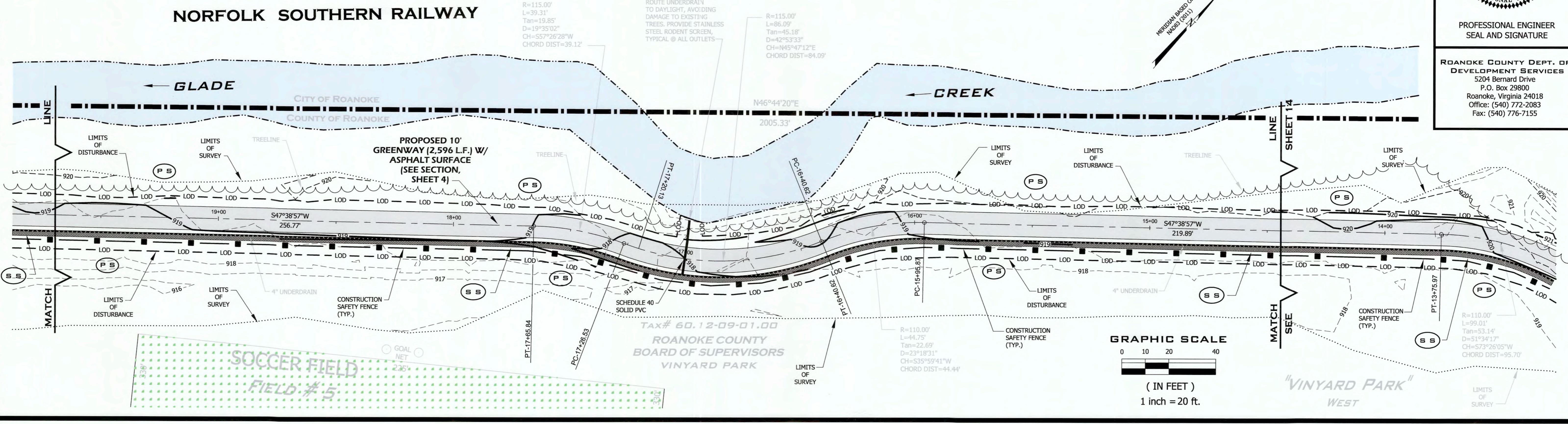
Version 1.0

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PROFESSIONAL ENGINEER
SEAL AND SIGNATURE

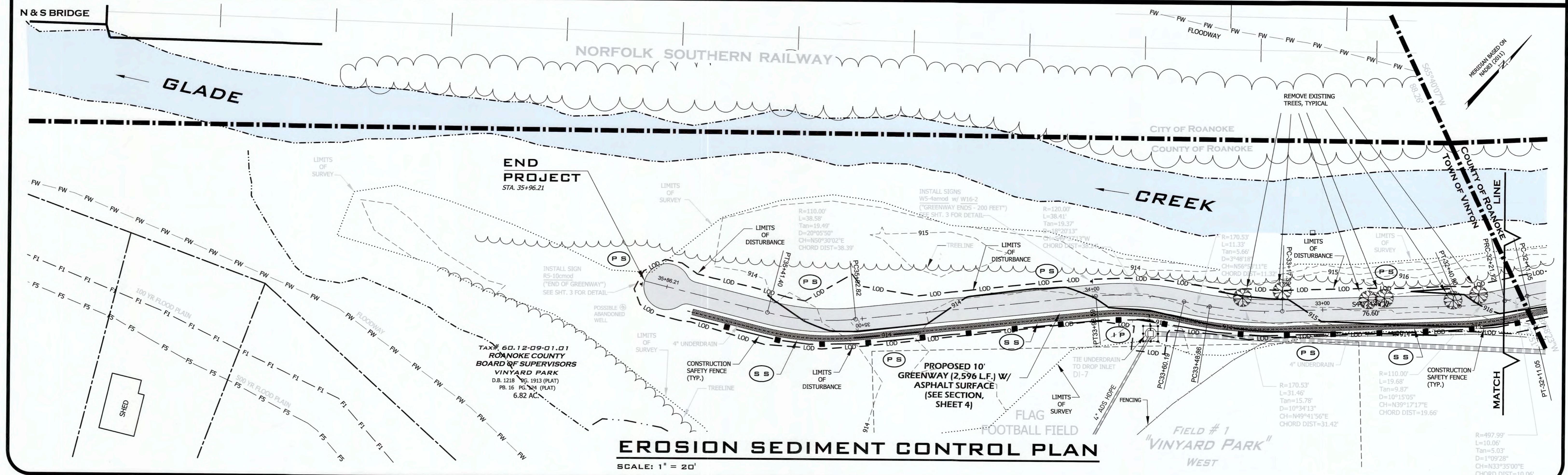
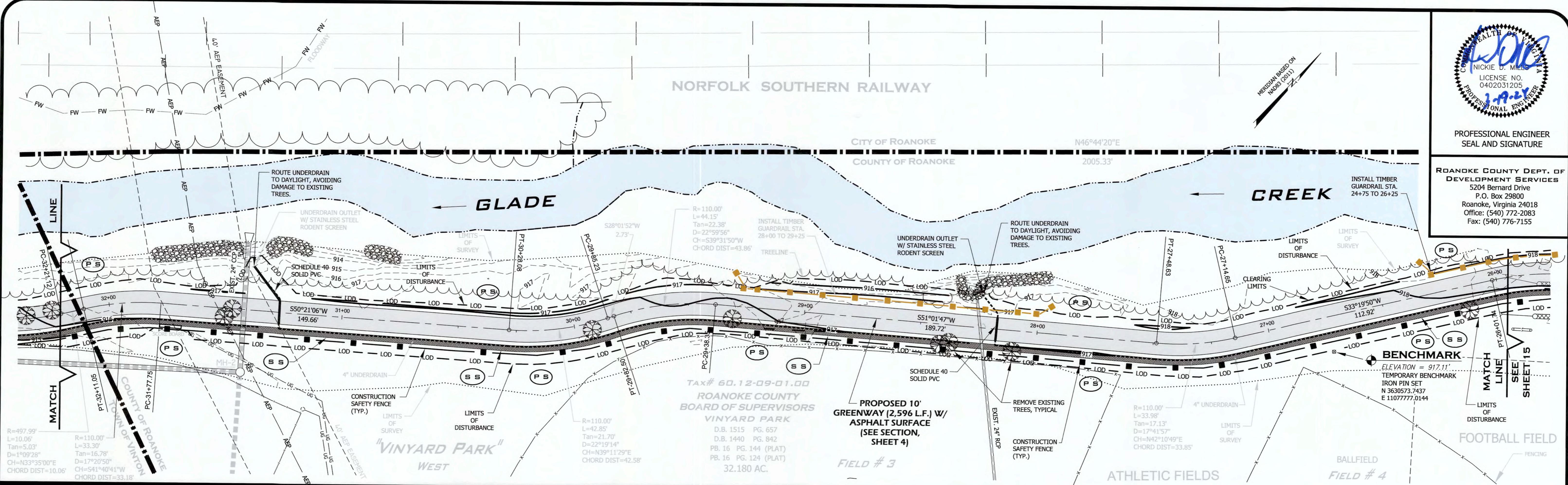
ROANOKE COUNTY DEPT. OF
DEVELOPMENT SERVICES
5204 Bernard Drive
P.O. Box 29800
Roanoke, Virginia 24018
Office: (540) 772-2083
Fax: (540) 776-7155





PROFESSIONAL ENGINEER
SEAL AND SIGNATURE

**ROANOKE COUNTY DEPT. OF
DEVELOPMENT SERVICES**
5204 Bernard Drive
P.O. Box 29800
Roanoke, Virginia 24018
Office: (540) 772-2083
Fax: (540) 776-7155

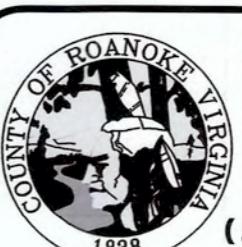


DEPARTMENT OF DEVELOPMENT SERVICES

1		
2		
3		
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NO.	REVISIONS	DATE

GLADE CREEK GREENWAY VINYARD PARK - WEST

DATE:	3/18/2024
SCALE:	1" = 20'
DRAWING BY:	BWE
DESIGNED BY:	NDM
APPROVED BY:	DMH



**EROSION & SEDIMENT
CONTROL PLAN
STA. 26+00 - 39+96.21)**

SHEET
16
OF
18



PROFESSIONAL ENGINEER
SEAL AND SIGNATURE

**ROANOKE COUNTY DEPT. OF
COMMUNITY DEVELOPMENT**
5204 Bernard Drive
P.O. Box 29800
Roanoke, Virginia 24018
Office: (540) 772-2083
Fax: (540) 776-7155

MERIDIAN BASED ON
NAD83 (2011)

8A

SOIL SPECIFICATION:
COMBS LOAM
0 TO 2 PERCENT SLOPES
OCCASIONALLY FLOODS

TAX# 60.12-09-01.00
ROANOKE COUNTY
BOARD OF SUPERVISORS
VINYARD PARK
D.B. 1515 PG. 657
D.B. 1440 PG. 842
PB. 16 PG. 144 (PLAT)
PB. 16 PG. 124 (PLAT)
32.180 AC.

NOTE:
*ALL WORK, INCLUDING STAGING AND STORAGE
AREAS SHALL REMAIN WITHIN INDICATED
LIMITS OF DISTURBANCE*

ACTIVITY FIELD
BOUNDARY
(KEEP OFF) —

The diagram illustrates a safety fence configuration. A central vertical column of squares is labeled 'SF' (Safety Fence) at each level. This column is flanked by horizontal lines of squares, also labeled 'SF'. The entire structure is enclosed within a dashed rectangular boundary labeled 'LOD' (Load) at the top and bottom. A gate is located in the center of the vertical column of squares. A line points from the text 'GATE IN SAFETY FENCE (CAN BE REMOVABLE)' to the gate. Another line points from the text 'PIN BACK SILT FENCE WHEN OPEN TO PEDESTRIANS' to the central vertical column. A third line points from the text 'PLACE 21A STONE ACROSS HAUL ROAD 10' WIDE' to the horizontal line of squares. The background features a grid pattern in the central area.

PEDESTRIAN CROSSING DETAIL

EROSION SEDIMENT CONTROL PLAN

SCALE: 1" = 20'

The seal of Roanoke County, Virginia, is circular. The outer ring contains the text "COUNTY OF ROANOKE" at the top and "VIRGINIA" at the bottom. The inner circle features a landscape illustration with a prominent mountain peak, a winding river, and a forested area.

DEPARTMENT OF DEVELOPMENT SERVICES

1		
2		
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6		
NO.	REVISIONS	DATE

GLADE CREEK GREENWAY VINYARD PARK - WEST

DATE: 3/18/2024
SCALE: 1" = 20'
DRAWING BY: BWE
DESIGNED BY: NDM
APPROVED BY: DMH



EROSION & SEDIMENT CONTROL PLAN STAGING AREA

SHEET
17
OF
18

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
- IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
- FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO ROANOKE COUNTY.
- THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY DEPARTMENT OF DEVELOPMENT SERVICES. AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.
- THIS SHEET MAY NOT BE MODIFIED EXCEPT FOR TABLES.

TOTAL DISTURBED AREA = **1.9806** AC. = **86,274** SQ. FT.

BMP INFORMATION TABLE

BMP TYPE	BMP #1
NAME OF AUTHORIZED NUTRIENT BANK	INFILTRATION TRENCH
REQUIRED PHOSPHORUS TO BE REMOVED (LB/YR)	N/A
AMOUNT OF PHOSPHORUS CREDIT PURCHASED (LB/YR)	0.96 LBS
TECHNICAL REQUIREMENT MET (PART 11B OR 11C)	N/A
TOTAL AREA TREATED (AC)	1.98
IMPERVIOUS AREA TREATED BY BMP (AC)	0.60
MANAGED TURF AREA TREATED BY BMP (AC)	1.38
OPEN SPACE/FORESTED AREA TREATED BY BMP (AC)	N/A
SURFACE AREA OF BMP (AC)	0.11
STORAGE VOLUME OF BMP (AC)	N/A
QUALITY, QUANTITY, OR BOTH?	QUANTITY
TMDS ADDRESSED? (PHOSPHORUS, BACTERIA, SEDIMENT, ETC)	N/A
NAME OF RECEIVING WATER (PROJECT SITE)	GLADE CREEK
HYDROLOGIC UNIT CODE FOR PROJECT SITE (ALPHANUMERIC CODE RU14, ETC)	RU13
MAXIMUM AVERAGE DEPTH (FT)	1.0
LATITUDE (DECIMAL DEGREES XX.XXXX)	37° 17' 13"
LONGITUDE (DECIMAL DEGREES XX.XXXX)	79° 53' 29"

STORMWATER SITE STATISTICS

	EXISTING	PROPOSED
TOTAL DISTURBED AREA (AC)	--	1.98
TOTAL SITE (AC)	--	40.6
IMPERVIOUS AREA (AC)	--	0.60
MANAGED TURF AREA (AC)	--	--
OPEN SPACE/FOREST (AC)	--	--
PUBLIC RIGHT OF WAY DISTURBANCE (SF)	--	N/A
KARST PRESENT (Y/N)	--	UNKNOWN

MODIFIED VIRGINIA CODING SYSTEM FOR EROSION & SEDIMENT CONTROL PRACTICES

REFER TO SHEET 8 FOR DETAILS OF IMPLEMENTED MEASURES

NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF		3.21	LEVEL SPREADER	LS	
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE		3.22	VEGETATIVE STREAMBANK STABILIZATION	VSS	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS		3.23	STRUCTURAL STREAMBANK STABILIZATION	SSS	
3.04	STRAW BALE BARRIER	STB		3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	
3.05	SILT FENCE	SF		3.25	UTILITY STREAM CROSSING	USC	
3.06	BRUSH BARRIER	BB		3.26	DEWATERING STRUCTURE	DS	
3.07	STORM DRAIN INLET PROTECTION	IP		3.27	TURBIDITY CURTAIN	TC	
3.08	CULVERT INLET PROTECTION	CIP		3.28	SUBSURFACE DRAIN	SD	
3.09	TEMPORARY DIVERSION DIKE	DD		3.29	SURFACE ROUGHENING	SR	
3.10	TEMPORARY FILL DIVERSION	FD		3.30	TOPSOILING	TO	
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD		3.31	TEMPORARY SEEDING	TS	
3.12	DIVERSION	DV		3.32	PERMANENT SEEDING	PS	
3.13	TEMPORARY SEDIMENT TRAP	ST		3.33	SODDING	SO	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.34	BERMUDA GRASS AND ZOYSIA GRASS ESTABLISHMENT	BZM	
3.15	TEMPORARY SLOPE DRAIN	TSD		3.35	MULCHING	MU	
3.16	PAVED FLUME	PF		3.36	SOIL STABILIZATION BLANKETS AND MATTING	SEZ	
3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	
3.18	OUTLET PROTECTION	OP		3.38	TREE PRESERVATION AND PROTECTION	TP	
3.19	RIPRAP	RR		3.39	DUST CONTROL	DC	
3.20	ROCK CHECK DAMS	CD		3.06	SILT SOCK	SS	

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A GREENWAY ADJACENT TO GLADE CREEK IN VINEYARD PARK. THE PROJECT IS LOCATED ON BERKLEY ROAD IN ROANOKE COUNTY, VIRGINIA. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 1.9806 AC.

EXISTING SITE CONDITIONS: THE LIMITS OF DISTURBANCE IS LOCATED WITHIN THE SUBJECT PROPERTY, IDENTIFIED AS ROANOKE COUNTY TAX PARCEL #06012-09-01-00. THE SITE IS CURRENTLY A PUBLIC PARK WITH A MIX OF BALL FIELDS, PAVED PARKING LOTS AND GRASSED AREA. THE ENTIRE SITE DRAINS TO EXISTING DITCHES WHICH DISCHARGES INTO GLADE CREEK ADJACENT TO THE PARK. THERE ARE CURRENTLY NO KNOWN CHANNEL EROSION PROBLEMS RELATED TO THE PROJECT AREA.

ADJACENT PROPERTY: THE PROJECT AREA IS BOUNDED BY GLADE CREEK TO THE NORTH, BERKLEY ROAD TO THE EAST, BERKLEY ROAD TO THE SOUTH, TOWN OF VINTON CORPORATION LINE TO THE WEST.

OFFSITE AREAS: THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, TO THE COUNTY OF ROANOKE:

A. THE LOCATION OF ANY OFFSITE BORROW AREAS.

B. THE LOCATION OF ANY OFFSITE AREAS WHERE EXCESS EXCAVATED MATERIAL WILL BE DISPOSED.

SOILS: THE "WEB SOIL SURVEY" AS PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE IDENTIFIES THE SOILS ON SITE AS 8A COMBS LOAM, 0 TO 2 PERCENT SLOPE, FLOODES OCCASIONALLY, WHICH IS HYDRAULIC SOIL GROUP A.

CRITICAL AREAS: CRITICAL AREAS FOR THIS PROJECT INCLUDE ALL AREAS WITH SLOPES GREATER THAN 3H TO 1V AND EXISTING CHANNELS IN PROJECT WORK AREA SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT THESE AREAS HAVE ADEQUATE EROSION CONTROL AND THAT SEDIMENT TRANSPORT FROM THE PROPERTY IS MINIMIZED.

EROSION AND SEDIMENT CONTROL MEASURES: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION (VESH).

THE MINIMUM STANDARDS OF THE VESH SHALL BE ADHERED TO UNLESS DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

STRUCTURAL

SILT SOCK-Std. 3.06-1 temporary sediment barrier constructed at the perimeter of a disturbed area from the residue materials available from clearing and grubbing the site. To intercept and retain sediment from disturbed areas of limited extent, preventing sediment from leaving the site.

TEMPORARY STONE CONSTR. ENTR. -Std. 3.02 a stabilized stone pad with a filter fabric underliner located at points of vehicular ingress and egress on a construction site.

SILT FENCE. 3.05 a temporary sediment barrier consisting of a synthetic filter fabric stretched across and attached to supporting posts and entranced to intercept and detain small amounts of sediment from disturbed areas.

RIP RAP. 3.19 a permanent, erosion resistant ground cover of large, loose, angular stone with filter fabric or granular underlining, used to protect the soil from erosive forces of concentrated runoff, slow the velocity of concentrated runoff while enhancing the potential for infiltration; also utilized to stabilize slopes with seepage problems and/or non-cohesive soils.

VEGETATIVE

TEMPORARY SEEDING. 3.31 establishment of temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants to reduce erosion by stabilizing disturbed areas that will not be brought to final grade for a period of more than 14 days.

PERMANENT SEEDING. 3.32 establishment of perennial vegetative cover on disturbed areas by planting seed to reduce erosion and decrease sediment yield from disturbed areas.

MULCHING. 3.35 application of plant residues or other suitable materials to the soil surface. Mulching will prevent erosion by protecting the soil surface from raindrop impact and reducing the velocity of overland flow. After seeding, mulching will foster the growth of vegetation by increasing available moisture and providing insulation against extreme heat and cold.

SOIL STABILIZATION BLANKETS & MATTING. 3.36 the installation of a protective covering or a soil stabilization mat on a prepared planting area of a steep slope or channel. In particular, the use of soil mats in channelized areas will raise the maximum permissible velocity of turf grass, by reinforcing, to resist the forces of erosion during storm events.

DUST CONTROL. 3.39 the application of measures to prevent surface and air movement of dust from exposed soil surfaces and reduce the presence of airborne substances which may present health hazards, traffic safety problems or harm animal or plant life.

SEDIMENT RETENTION ROLL the installation of an intermittent barrier on step slopes to interrupt and back up water flowing down a steep slope.

MANAGEMENT STRATEGIES:

A.) CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

B.) SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING.

C.) THE LOCAL PROGRAM ADMINISTRATOR RESERVES THE RIGHT TO ADD TO, DELETE OR OTHERWISE CHANGE THE EROSION CONTROL MEASURES AS DEEMED NECESSARY DUE TO ACTUAL FIELD CONDITIONS BY WRITTEN NOTIFICATION TO THE CONTRACTOR.

D.) ALL FILL AND CUT SLOPES SHALL BE SEADED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE.

E.) ONLY AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR, EROSION AND SEDIMENT CONTROL DEVICES MAY BE REMOVED FOLLOWING THE STABILIZATION OF THE CONTRIBUTING AREAS.

THE GENERAL CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE END OF A STORM EVENT PRODUCING 1/2" OR GREATER OF PRECIPITATION. WHERE AREAS HAVE BEEN FINALLY OR TEMPORARY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (SITE IS COVERED WITH ICE, OR FROZEN GROUND EXISTS) SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

A.) INSPECT DISTURBED AREAS AND AREAS OF MATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDENCE OF, OR THE POTENTIAL FOR SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT E&S CONTROLS IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECT POINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEDIMENTATION. CORRECT SITE CONTROLS AS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINED, CULVERTS, AND RECEIVING CHANNELS.

B.) IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATION TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FILE REVISIONS TO THESE PLANS. IN THE EVENT THAT ADDITIONAL CONTROLS ARE FOUND TO BE REQUIRED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE CONTROLS BEFORE THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICAL, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.

C.) A REPORT SUMMARIZING THE SCOPE OF INSPECTIONS, NAME OF INSPECTOR, INSPECTOR'S QUALIFICATIONS, DATES OF INSPECTIONS, MAJOR OBSERVATIONS PERTAINING TO THE IMPLEMENTATION OF THESE EROSION CONTROL PLANS, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS A PART OF THESE PLANS. MAJOR OBSERVATIONS OF THESE REPORTS SHALL INCLUDE: THE LOCATIONS OF EXCESSIVE SEDIMENTATION FROM THE SITE; LOCATIONS OF CONTROLS IN NEED OF REPAIR; LOCATION OF FAILED OR INADEQUATE CONTROLS; AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED.

STORMWATER MANAGEMENT:

STORMWATER QUANTITY REQUIREMENTS WILL BE MET BY **INFILTRATION**

STORMWATER QUALITY REQUIREMENTS WILL BE MET THROUGH **FORESTED OPEN SPACE RESERVE AREA**

MINIMUM STANDARDS

THE FOLLOWING STANDARDS ARE TO BE PROVIDED OR ADDRESSED ON EVERY DEVELOPMENT PROJECT EXCEEDING 10,000 S.F. IN AREA OF DISTURBANCE. THESE STANDARDS ARE CONSIDERED A MINIMUM AND MAY REQUIRE ADDITIONAL MEASURES AS DEEMED NECESSARY BY THE LOCAL PROGRAM AUTHORITY OR THE CONSULTING ENGINEER.

NO.	CRITERIA, TECHNIQUE OR METHOD	PRACTICES PROVIDED
1	PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT	