



## HISTORIC PRESERVATION COMMISSION

**Marc Elrich**  
*County Executive*

**Karen Burditt**  
*Chair*

November 13, 2025

### **MEMORANDUM**

TO: Rabbiah Sabbakhan  
Department of Permitting Services

FROM: Laura DiPasquale  
Historic Preservation Section  
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #1136655—Tree removal and associated grading

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The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached applications for a Historic Area Work Permit (HAWP). This application was approved at the November 12, 2025 HPC meeting.

The HPC staff has reviewed and stamped the attached submission materials.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: WSSC, c/o Walid Halboni; Amanda Gould, Agent  
Address: Various; vicinity of Beechbank Road and Capitol View Avenue, Silver Spring

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete, the applicant will contact Laura DiPasquale at 301-495-2167 or [laura.dipasquale@montgomeryplanning.org](mailto:laura.dipasquale@montgomeryplanning.org) to schedule a follow-up site visit.



Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Description of Work Proposed: Please give an overview of the work to be undertaken:

**REVIEWED**

By Laura DiPasquale at 2:29 pm, Nov 13, 2025



Attachment 1.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?)

- Project 2024-025 (WSSC Water Capitol View Sewer Rehabilitation)
- Project MR2025025 (Capitol View Sewer Rehab Project)

**REVIEWED**

By Laura DiPasquale at 2:29 pm, Nov 13, 2025

APPROVED

Montgomery County

Historic Preservation Commission



Attachment 2. Adjacent and confronting Property Owners

2804 Beechbank Rd
Silver Spring, MD, 20910
9723 Capitol View Ave
Silver Spring, MD, 20910
2802 Beechbank Rd
Silver Spring, MD, 20910
9715 Capitol View Ave
Silver Spring, MD, 20910
9717 Capitol View Ave
Silver Spring, MD, 20910
2905 Barker Street
Silver Spring, MD, 20910
10201 Menlo Ave
Silver Spring, MD, 20910
2801 Barker Street
Silver Spring, MD, 20910
CSX Transportation, Inc.
Tax account: 952561
Montgomery County
Tax account: 3629626

**REVIEWED**

By Laura DiPasquale at 2:29 pm, Nov 13, 2025

APPROVED  
Montgomery County  
Historic Preservation Commission



TREE ID	Common Name	Scientific Name	DBH
270	Black cherry	<i>Prunus serotina</i>	31.2
861	Tulip poplar	<i>Liriodendron tulipifera</i>	21
865	Tulip poplar	<i>Liriodendron tulipifera</i>	6.5
866	Black locust	<i>Robinia pseudoacacia</i>	12.5
867	Norway spruce	<i>Picea abies</i>	11
872	Boxelder	<i>Acer negundo</i>	7
882	Norway spruce	<i>Picea abies</i>	7
885	Tulip poplar	<i>Liriodendron tulipifera</i>	12.5
886	Tulip poplar	<i>Liriodendron tulipifera</i>	6
887	Tulip poplar	<i>Liriodendron tulipifera</i>	18
888	American holly	<i>Ilex opaca</i>	8
893	American holly	<i>Ilex opaca</i>	7
999	Black walnut	<i>Juglans nigra</i>	6
1068	Red maple	<i>Acer rubrum</i>	6
1080	American sycamore	<i>Platanus occidentalis</i>	30
1081	Elm sp.	<i>Ulmus sp.</i>	12
1082	Elm sp.	<i>Ulmus sp.</i>	7
1083	Tulip poplar	<i>Liriodendron tulipifera</i>	23
1084	Elm sp.	<i>Ulmus sp.</i>	11
1086	Tulip poplar	<i>Liriodendron tulipifera</i>	12
1103	American sycamore	<i>Platanus occidentalis</i>	13
1105	Elm sp.	<i>Ulmus sp.</i>	6
1106	American sycamore	<i>Platanus occidentalis</i>	13
1107	Elm sp.	<i>Ulmus sp.</i>	14
1118	Red maple	<i>Acer rubrum</i>	8
1122	Elm sp.	<i>Ulmus sp.</i>	8
1139	Sugar maple	<i>Acer saccharum</i>	16
1140	Red maple	<i>Acer rubrum</i>	20
1141	Boxelder	<i>Acer negundo</i>	11
1142	Elm sp.	<i>Ulmus sp.</i>	15
1143	Boxelder	<i>Acer negundo</i>	10
1144	Black walnut	<i>Juglans nigra</i>	17
1145	Boxelder	<i>Acer negundo</i>	6
1146	Boxelder	<i>Acer negundo</i>	10

**REVIEWED**

By Laura DiPasquale at 2:29 pm, Nov 13, 2025

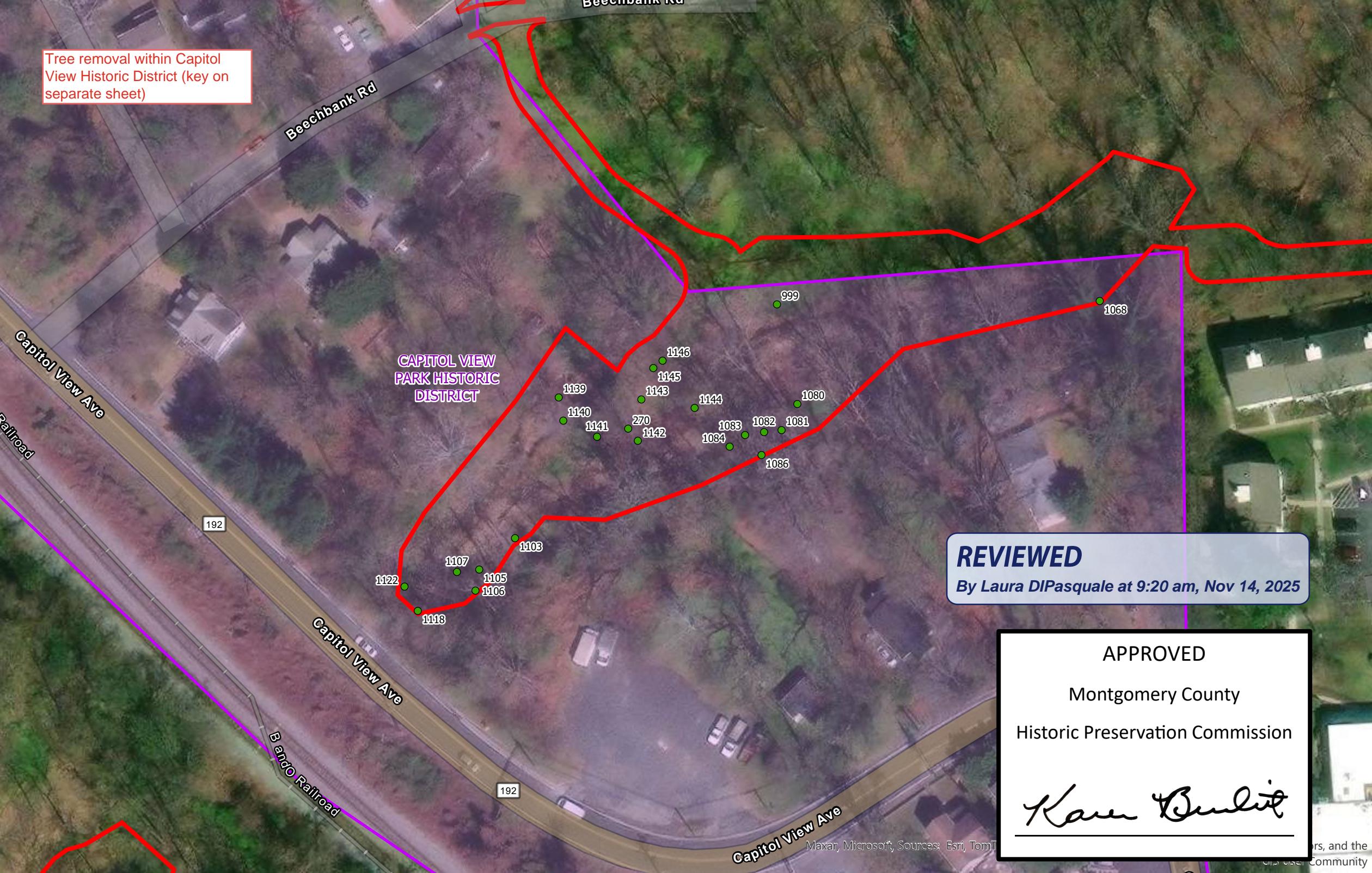
APPROVED

Montgomery County

Historic Preservation Commission

*Karen Bunkit*

Tree removal within Capitol View Historic District (key on separate sheet)



**REVIEWED**  
By Laura DiPasquale at 9:20 am, Nov 14, 2025

**APPROVED**  
Montgomery County  
Historic Preservation Commission

*Karen Buntin*

Tree removal within Capitol View Historic District (key on separate sheet)

Loma St

CAPITOL VIEW  
PARK HISTORIC  
DISTRICT

867  
866  
865  
861  
872  
862  
885  
886  
887  
888  
893

REVIEWED

By Laura DiPasquale at 9:20 am, Nov 14, 2025

APPROVED

Montgomery County

Historic Preservation Commission

*Karen Boulit*

# CONTRACT NO. CI7063A21

## CAPITOL VIEW - ESA SANITARY SEWER REHABILITATION

### MONTGOMERY COUNTY, MD.

TASK ORDER NO. 05-17 - JOB NO. CICKNCRMH7360A22

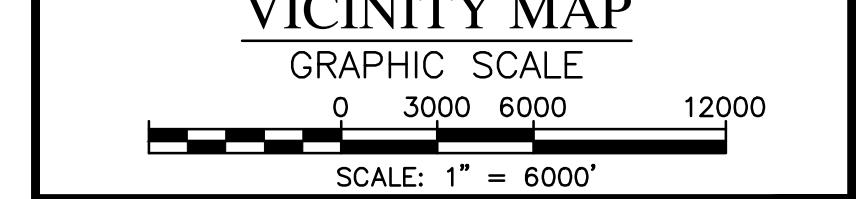
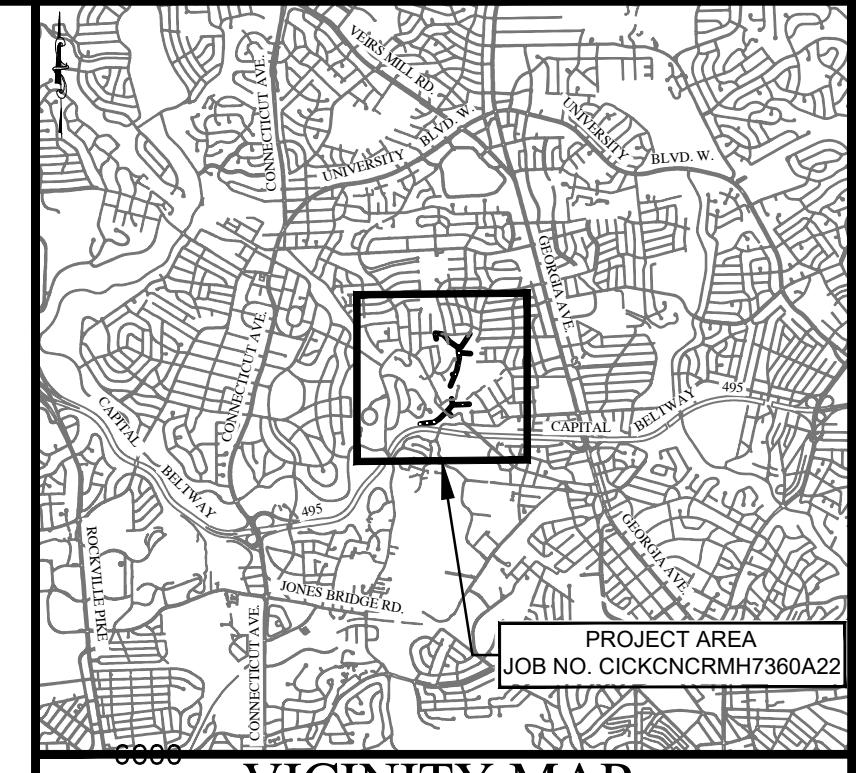
REVIEWED

By Laura DiPasquale at 2:30 pm, Nov 13, 2025

#### GENERAL NOTES:

- ALL WORK DETAILED IN THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WSSC WATER SPECIFICATIONS, STANDARD DETAILS AND DESIGN MANUAL REQUIREMENTS AND TO THE SATISFACTION OF WSSC WATER.
- THE LOCATION OF UTILITIES AND FEATURES SHOWN ON THE DRAWINGS ARE FROM THE BEST AVAILABLE INFORMATION AND PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. WSSC WATER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED AND THE INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL VERIFY, FIELD LOCATE AND COLLECT DIMENSIONS OF ALL EXISTING UTILITIES, SERVICE CONNECTIONS OR OTHER FEATURES ASSOCIATED WITH THEIR WORK PRIOR TO ORDERING MATERIALS OR COMMENCING WORK ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH EACH PROPERTY OR UTILITY OWNER TO ENSURE ALL EXISTING UTILITIES OR FEATURES ARE ADEQUATELY PROTECTED FROM DAMAGE AND WILL REMAIN IN SERVICE DURING CONSTRUCTION ACTIVITIES. ANY DAMAGE TO FEATURES OR UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE PROPERTY OR UTILITY OWNER AT NO ADDITIONAL EXPENSE TO WSSC WATER.
- UNDERGROUND OR OVERHEAD UTILITIES (ELECTRIC, WATER, GAS, CABLE, SPRINKLER SYSTEMS, ETC.) MAY OR MAY NOT EXIST ON PRIVATE PROPERTY OR OUTSIDE WSSC WATER'S R.O.W. THE LOCATION OF THESE UTILITIES IS TYPICALLY UNKNOWN. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGING ANY UTILITIES. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS ENCOURAGED TO MAKE AN ON-SITE INSPECTION OF THE AREAS WHERE WORK WILL BE PERFORMED AND IDENTIFY ANY RELATED WORK OR CONDITIONS THAT MAY IMPACT THEIR ACTIVITIES INCLUDING BY-PASS/FLOW CONTROL, SITE ACCESS AND WORK AREA REQUIREMENTS PRIOR TO STARTING WORK ON THE PROJECT. THE CONTRACTOR SHOULD NOTIFY WSSC WATER OF ANY ISSUES IDENTIFIED PRIOR TO INITIATING THEIR WORK. THE CONTRACTOR SHOULD ALSO REVIEW AND MAKE THEMSELVES FAMILIAR WITH PROJECT WORK AREAS AND THE ALIGNMENT, GRADES AND/OR CROSS-SLOPES OF ANY PROPOSED SITE ACCESS AND WORK AREAS. THE CONTRACTOR SHALL ONLY UTILIZE PROPER EQUIPMENT AND CONSTRUCTION TECHNIQUES THAT THEY DEEM APPROPRIATE TO PERFORM THE REQUIRED WORK WITHOUT DAMAGING EXISTING FACILITIES, UTILITIES OR ENVIRONMENTAL FEATURES.
- CONTACT WSSC WATER IMMEDIATELY UPON DISCOVERY OF ANY CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THESE PLANS.
- THE BASE MAPPING WAS DEVELOPED FOR THIS PROJECT UTILIZING GIS DATA. THE SANITARY SEWERS AND MANHOLES ASSOCIATED WITH THE WORK WERE DEVELOPED USING A COMBINATION OF GIS DATA, AS-BUILT DRAWINGS, FIELD COLLECTED SURVEY DATA AND VISUAL OBSERVATIONS. THIS DATA WAS ALSO UTILIZED TO DEVELOP PROJECT LODS SHOWN ON THE DRAWINGS. THE LODS ARE SHOWN FOR EROSION AND SEDIMENT CONTROL, PERMITTING, SITE ACCESS AND WORK AREAS AND TEMPORARY BY-PASS ROUTING REQUIREMENTS. THE CONTRACTOR SHALL UTILIZE THE LODS SHOWN AND AS DIRECTED IN THE FIELD FOR COMPLETION OF THE REQUIRED WORK. MODIFICATIONS OF THE LODS MAY BE REQUIRED BASED ON UPDATED SITE CONDITIONS OR TO BETTER PROTECT WORK AREA AND ENVIRONMENTAL FEATURES. MODIFICATIONS MUST BE APPROVED BY WSSC WATER.
- SEWER BYPASS PUMPING IS SHOWN ON THESE DRAWINGS FOR DIAGRAMMATICAL PURPOSES ONLY. CONTRACTOR SHALL PROVIDE TEMPORARY SEWER BYPASS PUMPING SERVICES DURING CONSTRUCTION FOR SEWER AND MANHOLE WORK ON ACTIVE PIPELINES IN ACCORDANCE WITH SPECIFICATION SECTION 02960.
- SEWER BYPASS PIPING THAT IS RUN THROUGH A BRIDGE OR OTHER EXISTING CULVERT SHALL BE ADEQUATELY SUPPORTED AT THE HIGHEST ELEVATION POSSIBLE. ANY PHYSICAL MODIFICATIONS TO BRIDGES, CULVERTS OR OTHER STRUCTURES SHALL BE MADE PER THE REQUIREMENTS OF THE OWNER OF THE AFFECTED STRUCTURE.
- IT IS THE INTENT OF THE CONTRACT TO UTILIZE EXISTING SEWER STRUCTURES FOR BY-PASS AND INSTALLATION OF THE CURED-IN-PLACE PIPE (CIPP) LINING. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY INTERNAL CONFIGURATIONS AND CONDITIONS OF EACH STRUCTURE AND PROVIDE APPROPRIATE MATERIALS, FLOW CONTROL, INSTALLATION REQUIREMENTS AND EQUIPMENT TO COMPLETE THE REQUIRED WORK. IT MAY BE NECESSARY FOR THE CONTRACTOR TO MODIFY EXISTING STRUCTURES TO ACCOMMODATE THE REQUIREMENTS OF THIS WORK. ANY NEWER STRUCTURES THAT WERE MODIFIED MUST BE RESTORED TO ORIGINAL OR BETTER CONDITIONS. ALL WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND COMPLETED IN ACCORDANCE WITH WSSC WATER'S STANDARDS.
- PRIOR TO INITIATING CONSTRUCTION, CONTRACTOR SHALL CONDUCT A FIELD WALK OVER ALL PROPOSED ACCESS ROAD AREAS WITH THE PIPELINE DESIGN DIVISION (PDD), PIPELINE CONSTRUCTION DIVISION (PCD) CONTRACT MANAGER, AND REPRESENTATIVE OF THE PROPERTY OWNER TO FINALIZE ACCESS ROAD ALIGNMENTS AND TYPES. CONTRACTOR SHALL ENSURE THAT ADEQUATE SUBGRADE CONDITIONS EXIST. CONTRACTOR, PDD, PCD AND REPRESENTATIVE OF THE PROPERTY OWNER SHALL COORDINATE ALL NECESSARY MODIFICATIONS TO THE ACCESS ROAD DESIGN IN THE FIELD. TREE REMOVAL WILL ALSO BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING.
- CALL MNCPPC REPRESENTATIVE AT 301-873-7702 SEVENTY- TWO (72) HOURS IN ADVANCE OF USING ANY PART OF THE TRAIL FOR SEWER MAIN OR MANHOLE ACCESS. PROVIDE TRAFFIC CONTROL AND WARNING SIGNAGE FOR USERS OF THE TRAIL. TEMPORARY DETOURS OF TRAIL WILL BE CONSTRUCTED BY THE CONTRACTOR AT THE REQUEST OF MNCPPC. IF MNCPPC DETERMINES THAT THE ACTIVITY REQUIRES TEMPORARY CLOSURE OF THE TRAIL, THE CONTRACTOR MUST PROVIDE WARNING SIGNS, SAFETY BARRIERS AND PROTECTIVE MATTING FOR EXISTING PAVEMENT AS DIRECTED BY MNCPPC. DO NOT PROCEED WITHOUT PRE-CONSTRUCTION MEETING WITH MNCPPC. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL PAVING DAMAGED AS A RESULT OF TRAIL USAGE AT NO COST TO THE OWNER. EXISTING DAMAGED PAVEMENT SHOULD BE DOCUMENTED PRIOR TO START OF WORK.
- CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777 AT LEAST 72 HOURS IN ADVANCE OF ANY WORK OR LOG ON TO WWW.CALL811.COM OR WWW.MISSUTILITY.SO APPROPRIATE MARKINGS CAN BE MADE IN THE VICINITY OF ALL CONSTRUCTION ACTIVITY.
- AREAS DESIGNATED AS TEMPORARY FOOTPATH WILL NOT BE USED FOR TRAVEL OF MECHANIZED EQUIPMENT. NO TREE CLEARING OR GROUND DISTURBANCES ARE ALLOWED IN AREAS DESIGNATED AS TEMPORARY FOOTPATHS.
- PARK TRAILS ARE SHOWN BASED ON AVAILABLE INFORMATION. CONTRACTOR SHOULD FAMILIARIZE HIMSELF WITH ALL TRAIL LOCATION, WIDTHS, CONDITION, MATERIALS, ETC PRIOR TO INITIATING WORK.
- PAVEMENT PROTECTION (ACCESS ROAD TYPES 1, 2 OR 3) SHALL BE USED OVER EXISTING PAVED TRAILS TO PROTECT THE TRAILS AND SUSTAIN CONTRACTOR EQUIPMENT LOADING IN ACCORDANCE WITH THE GENERAL NOTES 10 AND 11 ON THIS SHEET.
- DESPITE ANY CHANGE IN FIELD CONDITIONS, THE CONTRACTOR AT ALL TIMES SHALL ONLY WORK ON PROPERTIES WHICH HAVE GRANTED THE CONTRACTOR ACCESS THROUGH RIGHT OF ENTRY (ROE) AGREEMENTS. THESE AGREEMENTS ARE PROVIDED AS PART OF THE CONTRACT DOCUMENTS.
- ROE AGREEMENTS PROVIDED MAY HAVE SPECIAL CONDITIONS INCLUDED WITH THEM. IN SOME INSTANCES, THE ENGINEER HAS INCLUDED NOTES ON THE DESIGN DRAWINGS FOR INCORPORATION INTO THE CONTRACT. CONTRACTOR SHALL REVIEW THE ROE DOCUMENTS TO ENSURE ALL CONDITIONS FOR ENTRY ARE ADDRESSED.
- TRAFFIC CONTROL PERMITS ARE PROVIDED WITH CONTRACT DOCUMENTS. A PERMIT HAS BEEN OBTAINED AND TRAFFIC CONTROL MUST BE PROVIDED EACH TIME THE CONTRACTOR BEGINS NEW WORK AT A PARTICULAR ACCESS PATH WITH ENTRY FROM A LOCAL, COUNTY OR STATE HIGHWAY (I.E. CCTV, MANHOLE REHABILITATION, SEWER PIPE LINING)
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING STAGING AREAS. MOBILIZATION OF EQUIPMENT AND MATERIALS TO AND FROM WORK AREAS SHALL BE AT NO ADDITIONAL COST TO THE COMMISSION. ALL AREAS SHALL BE STABILIZED AND RESTORED TO EXISTING CONDITIONS.
- CONTRACTOR SHALL PROVIDE TREE TRUNK PROTECTION FOR ALL TREES WITHIN 15 FEET OF ANY WORK. SEE TREE PROTECTION FENCE DETAIL ON SANITARY SEWER REHABILITATION DETAIL SHEET. CONTRACTOR SHALL NOT STOCKPILE MATERIALS OR EQUIPMENT WITHIN THE DIPLINE OF ANY TREE.
- CONTRACTOR SHALL PERFORM CAMERA AND TV RECORD INSPECTIONS OF MANHOLES AND PIPES WITHIN LIMITS OF WORK FOR PRE AND POST CONSTRUCTION CONDITIONS.
- A COPY OF USACE AND MDE PERMITS MUST BE AVAILABLE AT THE WORK SITE AT ALL TIMES.
- POST-CONSTRUCTION GRADES AND ELEVATIONS SHALL BE THE SAME AS ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED WETLAND AREAS TO ENSURE THAT THERE IS NO PERMANENT LOSS IN WETLAND HYDROLOGY. IN UNDEVELOPED AREAS, CONTRACTOR SHALL INSTALL ALL NEW MANHOLES AND ADJUST EXISTING MANHOLES WITH PROPOSED REHABILITATION OF THE CONE AND/OR FRAME AND COVER SUCH THAT THE FINAL RIM ELEVATION IS A MINIMUM OF 12-INCHES AND A MAXIMUM OF 18-INCHES ABOVE ADJACENT GROUND ELEVATION.
- ACCEESS ROADS ARE CONSTRUCTED WITHIN LOD AS SHOWN ON THE PLANS & IN ACCORDANCE WITH ACCESS ROAD DETAILS.
- REDUNDANT SILT AND/OR SUPER-SILT FENCE IS NOT REQUIRED WHERE SHOWN WHEN PROVIDED AS PART OF ACCESS ROAD CONSTRUCTION (TYPES 3 AND 4). FOR ACCESS ROAD TYPES 1 AND 2, SILT FENCE MAY BE PROVIDED IN LIEU OF WOVEN WIRE CHICKEN FENCE IN AREAS WHERE SILT FENCE IS SHOWN ON THE PLANS.
- CONTRACTOR SHALL NOT CUT PAVEMENT ON ANY ROADS INCLUDED ON THE "MORATORIUM LIST" PROVIDED IN THE CONSTRUCTION TASK ORDER WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ROAD OWNER. THE CONTRACTOR SHOULD GET AN UPDATED MORATORIUM ROADS LIST FROM MONTGOMERY COUNTY AT THE TIME OF CONSTRUCTION.
- MAXIMUM BYPASS PUMP FLOWRATES PROVIDED ON THE DRAWINGS ARE ESTIMATED BASED ON HYDRAULIC MODELING RESULTS, THEORETICAL FULL PIPE FLOW OF CONNECTED PIPES, OR APPROXIMATE NUMBER OF SEWER HOUSE LATERAL CONNECTIONS. CONTRACTOR SHALL CONFIRM BYPASS PUMP RATE REQUIREMENTS FOR EACH SET-UP AND SELECT APPROPRIATE BYPASS EQUIPMENT.

APPROVED
Montgomery County
Historic Preservation Commission
<i>Karen Boulleit</i>



FOR LOCATION OF UTILITIES CALL 8-1-1 OR 1-800-257-7777 OR LOG ON TO [www.call811.com](http://www.call811.com) OR [www.missutility.net](http://www.missutility.net) 72 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY

DATE	REVISIONS

PERMIT REQUIREMENTS	
TREE	REQ'D
WETLANDS / WATERWAYS	REQ'D
M.N.C.P.&C.	REQ'D
STATE HWY. ADM.	REQ'D
STATE BD. HEALTH	NOT REQ'D
MONTGOMERY CO.	REQ'D
SED. CONTROL	REQ'D
P.G.C.O.D.P.W.&T.	NOT REQ'D
M.D. D.O.E. - WMA	NOT REQ'D

\*TO BE ACQUIRED BY APPLICANT

#### TOWN NOTIFICATION

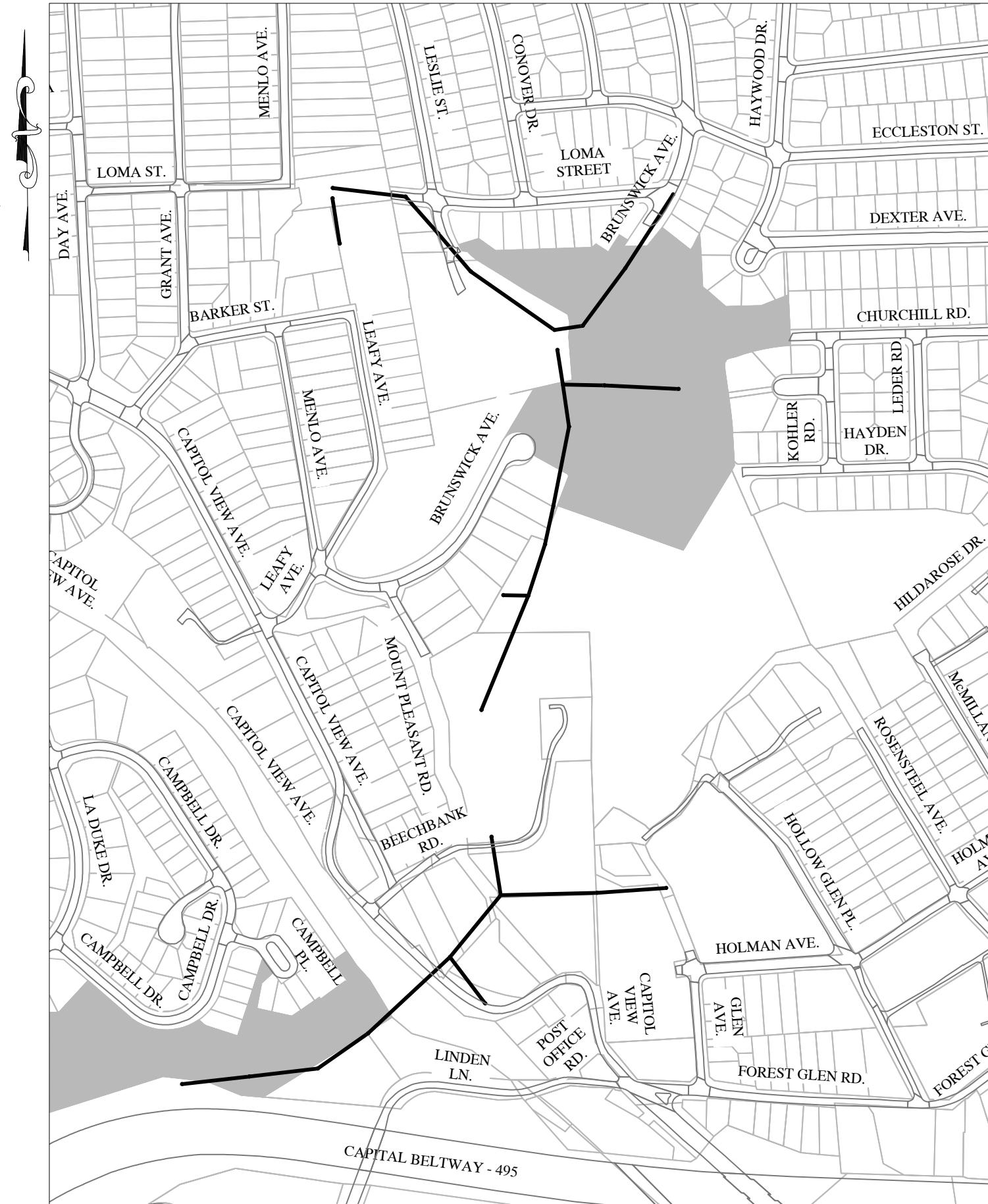
AS BUILT DATA	
CONTRACT MANAGER	
CONTRACTOR	
INSPECTOR	
L & G	
DATE STARTED	
DATE COMPLETED	
TYPE PIPE	W. S.
TYPE MANHOLES	
DATE FINALED	
FINALED BY	

DRAWING INDEX	
Drawing No.	Description
1 thru 44	Plans, Notes & Details
S.C.1	Sediment Control Details

PIPELINE DESIGN DIVISION	
DATE	DIVISION MANAGER

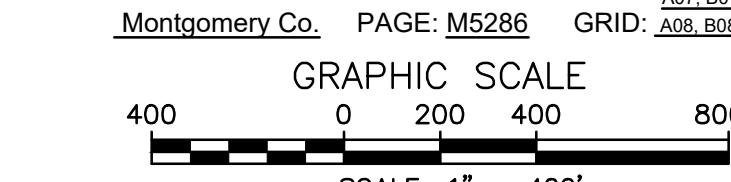
SEWER INFRASTRUCTURE SECTION	
DATE	SECTION MANAGER
DRAWN	ADEQUATE SURVEY
ON PROP. R/W	REQ'D
CHECK	OFF PROP. R/W
OTHER UTILITIES	

JOB NUMBER : CICKNCRMH7360A22	
VERIFY SCALE - BAR IS ONE INCH ON ORIGINAL DRAWING 0	
200'S 212NW03 & 213NW03	OF 44



#### TASK ORDER 05-17 LOCATION MAP

Montgomery Co. PAGE: M5286 GRID: A07\_B07 A07\_B07



WSSC Erosion and Sediment Control Approval Note	
This plan has been approved per requirements in the: Standard Procedures of the WSSC Regulations for Utility Erosion and Sediment Control, Section V, Paragraph A.	
Reviewed by: _____	
Date: _____ Plan No. CICKNCRMH7360A22	

PROFESSIONAL CERTIFICATION	
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.	
NAME: EVAN R. ANDREWS, P.E.	
LICENSE NO.: 29609	
EXPIRATION DATE: 11/19/2025	

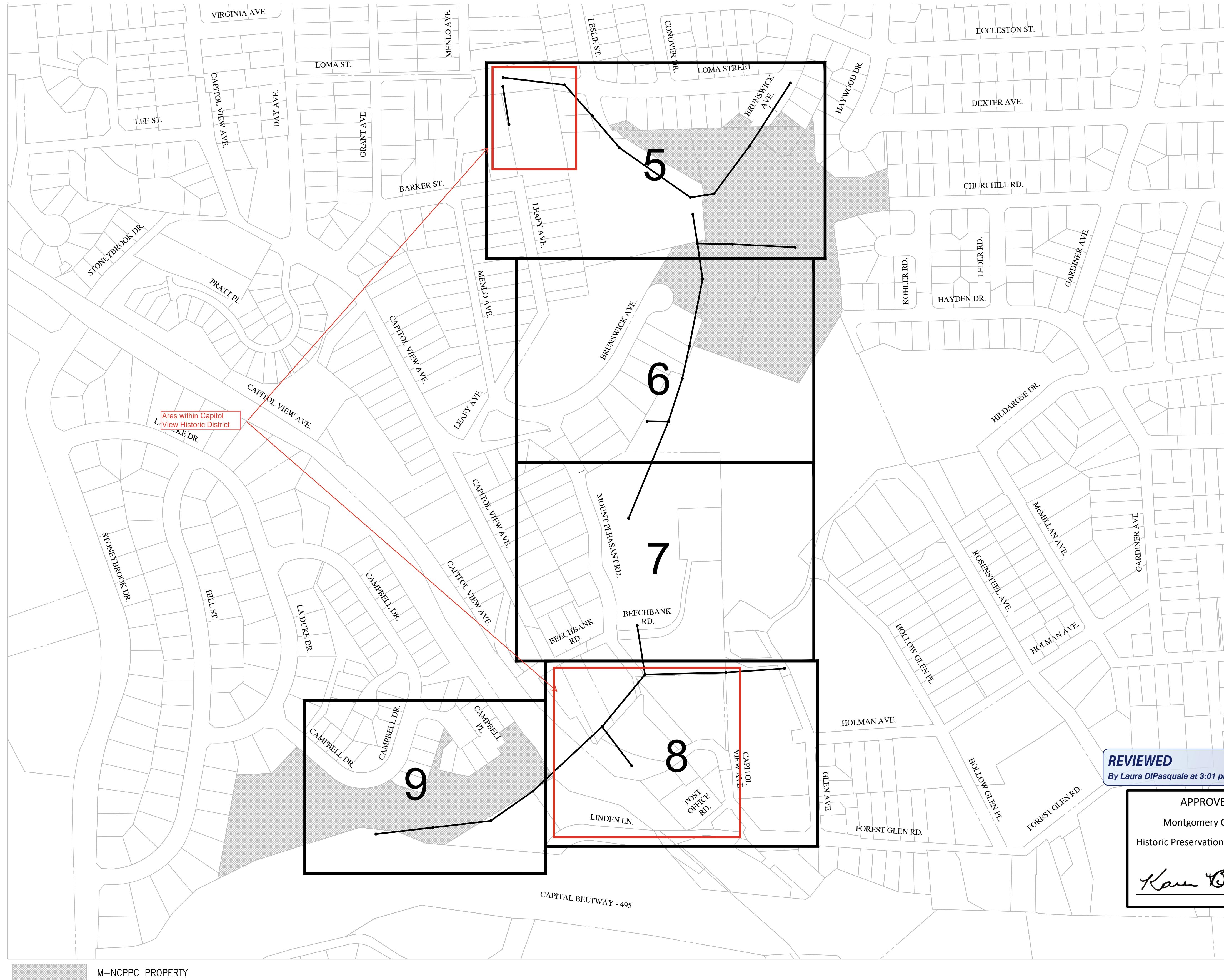
IDIQ - ESA - CI7063A21 - TASK ORDER NO. 05-17	
CAPITOL VIEW - ESA	
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT	
GEN-01 - COVER SHEET	

STRAUGHAN ENVIRONMENTAL  
10245 Old Columbia Road | Columbia, MD 21046  
301.362.9200 | [www.straughanenvironmental.com](http://www.straughanenvironmental.com)

MAY, 2025







## SHEET INDEX

SCALE: 1" = 200'

WASHINGTON SUBURBAN SANITARY COMMISSION



THESE DOCUMENTS CONTAIN  
PRIVILEGED AND CONFIDENTIAL  
INFORMATION WHICH SHALL NOT  
BE REDISTRIBUTED WITHOUT  
PRIOR WSSC APPROVAL

Michael Baker  
INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC.  
1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014  
Phone: (410) 689-3400

IDIQ - E&A - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - E&A  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
GEN-04 - SHEET INDEX

DRAWING INDEX		
SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1	GEN-01	COVER SHEET
2	GEN-02	SEWER FACILITIES REHABILITATION NOTES
3	GEN-03	EROSION AND SEDIMENT CONTROL NOTES
4	GEN-04	HEET INDEX
5	SWP-01	SEWER REHABILITATION PLAN
6	SWP-02	SEWER REHABILITATION PLAN
7	SWP-03	SEWER REHABILITATION PLAN
8	SWP-04	SEWER REHABILITATION PLAN
9	SWP-05	SEWER REHABILITATION PLAN
10	SWD-01	SEWER REHABILITATION DETAILS
11	MOT-01	STANDARD TRAFFIC CONTROL DETAILS
12	GN-01	WSSC CONSTRUCTION GUIDELINES FOR STREAM RESTORATION
13	PR-01	GRADING PLAN FOR STREAM RESTORATION
14	PR-02	GRADING PLAN FOR STREAM RESTORATION
15	PR-03	GRADING PLAN FOR STREAM RESTORATION
16	PR-04	GRADING PLAN FOR STREAM RESTORATION
17	PR-05	GRADING PLAN FOR STREAM RESTORATION
18	PR-06	GRADING PLAN FOR STREAM RESTORATION
19	PR-07	GRADING PLAN FOR STREAM RESTORATION
20	PR-08	GRADING PLAN FOR STREAM RESTORATION
21	PR-09	GRADING PLAN FOR STREAM RESTORATION
22	SPR-01	PROFILES FOR STREAM RESTORATION
23	SPR-02	PROFILES FOR STREAM RESTORATION
24	SPR-03	PROFILES FOR STREAM RESTORATION
25	SPR-04	PROFILES FOR STREAM RESTORATION
26	DE-01	STREAM CONSTRUCTION DETAILS
27	DE-02	STREAM CONSTRUCTION DETAILS
28	DE-03	STREAM CONSTRUCTION DETAILS
29	DE-04	STREAM CONSTRUCTION DETAILS
30	DE-05	STREAM CONSTRUCTION DETAILS
31	DE-06	STREAM CONSTRUCTION DETAILS
32	ES-01	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1
33	ES-02	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2
34	ES-03	EROSION AND SEDIMENT CONTROL PLAN - SHEET 3
35	ES-04	EROSION AND SEDIMENT CONTROL PLAN - SHEET 4
36	ES-05	EROSION AND SEDIMENT CONTROL PLAN - SHEET 5
37	ES-06	EROSION AND SEDIMENT CONTROL PLAN - SHEET 6
38	ES-07	EROSION AND SEDIMENT CONTROL PLAN - SHEET 7
39	ES-08	EROSION AND SEDIMENT CONTROL PLAN - SHEET 8
40	ES-09	EROSION AND SEDIMENT CONTROL PLAN - SHEET 9
41	HC-01	CONSTRUCTION CROSS SECTIONS
42	HC-02	CONSTRUCTION CROSS SECTIONS
43	HC-03	CONSTRUCTION CROSS SECTIONS
44	HC-04	CONSTRUCTION CROSS SECTIONS
45	SC-1	SEDIMENT CONTROL DETAILS FOR UTILITY CONSTRUCTION

## REVIEWED

By Laura DiPasquale at 3:01 pm, Nov 13, 2025

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Karen Bunting*

GRAPHIC SCALE  
HORZ: 200 0 100 200 400  
SCALE: 1 inch = 200 ft.

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE  
DOCUMENTS WERE PREPARED OR  
APPROVED BY ME, AND THAT I AM A  
DULY LICENSED PROFESSIONAL  
ENGINEER UNDER THE LAWS OF  
THE STATE OF MARYLAND.  
NAME: EVAN R. ANDREWS, P.E.  
LICENSE NO.: 29609  
EXPIRATION DATE: 11/19/2025

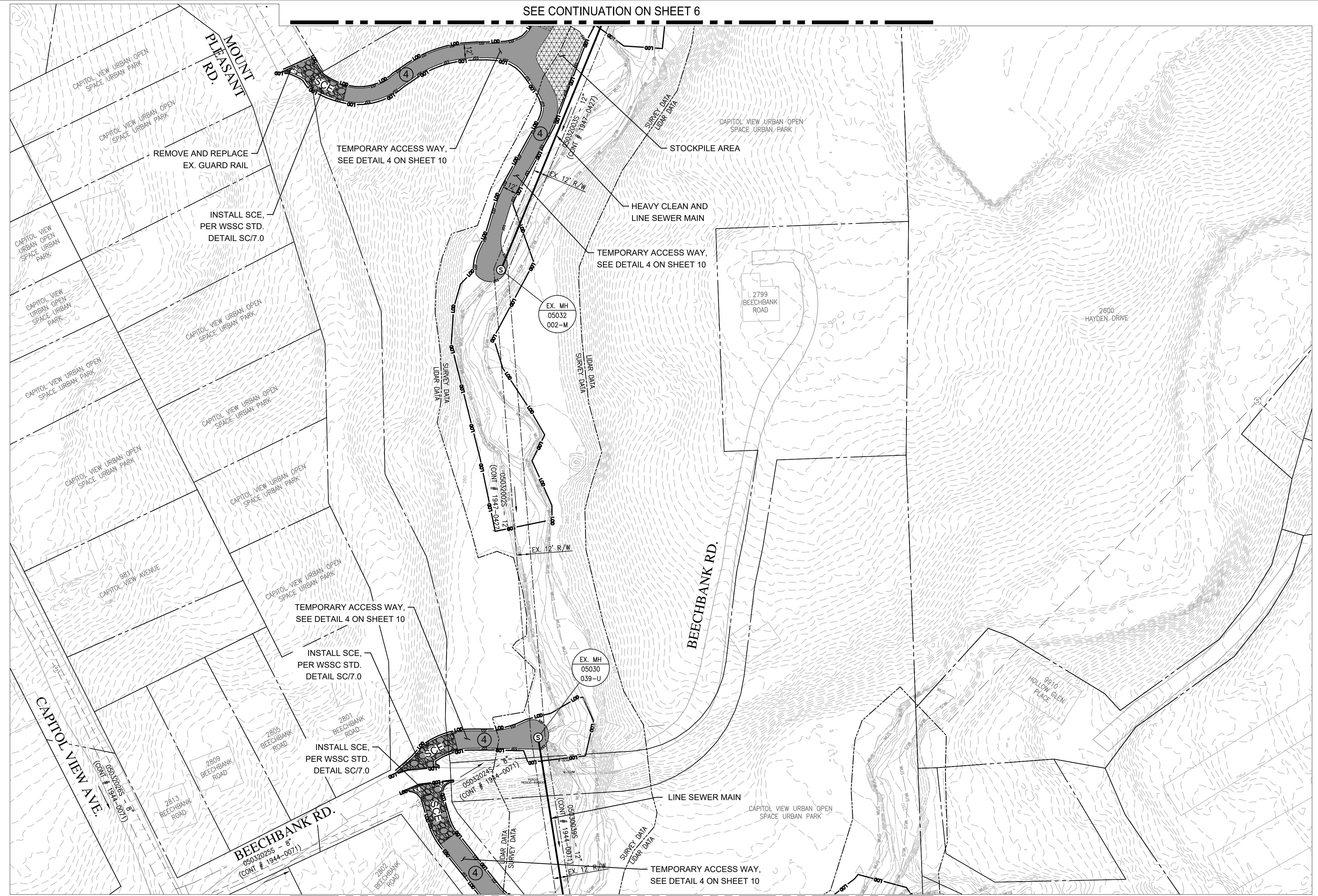


DATE REVISIONS

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE PDD PROJECT MANAGER

JOB NUMBER : CICKCNCRMH7360A22  
NO 4  
OF 44  
200'S 212NW03 & 213NW03



SEE CONTINUATION ON SHEET 8

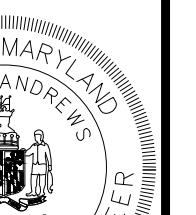
# PLAN CAPITOL VIEW - ESA

SCALE: 1" = 50'

MANHOLE INFORMATION												SCALE: 1:50
MANHOLE ID #	DEPTH (FT.)	DIAMETER (FT.)	MATERIAL	WDC #018	WDC #124	WDC #393	WDC #943	WDC #960	WDC #961	WDC #962	WDC #984	DESCRIPTION OF WORK
				INSTALL MH	LOCATE / ADJUST MH	ASSET ARMORING	MH LINING-EPOXY LINE	MH LINING - CEMENTITIOUS LINER	GRADE RING MH (EA.)	MISC. REPAIR MH (EA.)	INSTALL DROP CONNECTION MH (EA.)	
05030039U	9.3	4	BRICK			1		1				Cementitious Liner; Asset Armoring
05032002M	9	4	BRICK			1		1				Cementitious Liner; Asset Armoring

PIPELINE INFORMATION						
ASSET ID #	DIAMETER (IN.)	LENGTH (FT.)	MATERIAL	WDC #967	WDC #985	DESCRIPTION OF WORK
				PIPE LINING MAINLINE SEWER (LF.)	PIPE RELAY MAINLINE SEWER (LF.)	
05030039S	12	187	VCP	187		LINE
05032003S	12	392	CONC. PIPE	392		HEAVY CLEAN AND LINE

MAY 2025



PROFESSIONAL CERTIFICATION

REBY CERTIFY THAT THESE  
UMENTS WERE PREPARED OR  
ROVED BY ME, AND THAT I AM A  
LICENSED PROFESSIONAL  
EER UNDER THE LAWS OF  
TATE OF MARYLAND.

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

WASHINGTON SUBURBAN SANITARY COMMISSION



THESE DOCUMENTS CONTAIN  
PRIVILEGED AND CONFIDENTIAL  
INFORMATION WHICH SHALL NOT  
BE REDISTRIBUTED WITHOUT  
PRIOR WRITTEN APPROVAL

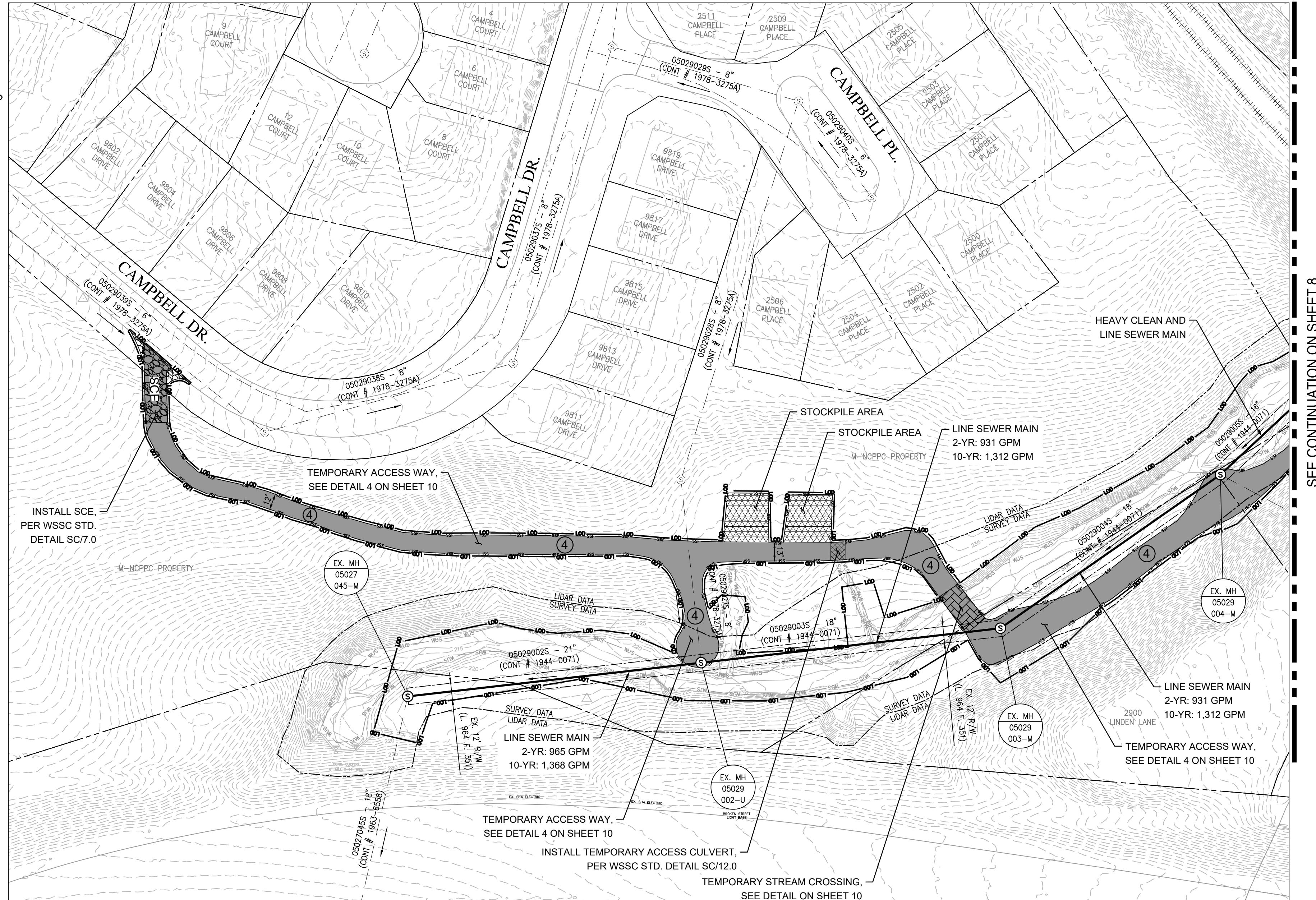
Michael Baker

MICHAEL BAKER INTERNATIONAL, LLC.  
1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014

IDIQ - ESA - CI7063A21 - TASK ORDER NO. 05-17  
**CAPITOL VIEW - ESA**  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
SWR 02 - SEWER REHABILITATION PLAN

JOB NUMBER : CICKCNCRMH7360A22





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## REVIEWED

*Laura DiPasquale at 3:01 pm, Nov 13, 2025*

APPROVED  
Montgomery County  
Historic Preservation Commission

Karen Bunt

MANHOLE INFORMATION												
MANHOLE ID #	DEPTH (FT.)	DIAMETER (FT.)	MATERIAL	WDC #018	WDC #124	WDC #393	WDC #943	WDC #960	WDC #961	WDC #962	WDC #984	COMMENTS
				INSTALL MH	LOCATE / ADJUST MH	ASSET ARMORING	MH LINING-EPOXY LINE	MH LINING - CEMENTITIOUS LINER	GRADE RING MH (EA.)	MISC. REPAIR MH (EA.)	INSTALL DROP CONNECTION MH (EA.)	
05027045M	5.8	4	BRICK					1				Cementitious Liner
05029002U	7.5	4	BRICK			1						Asset Armoring
05029003M	6.8	4	BRICK						1			Grade Ring MH - Raise to Grade
05029004M	6.9	4	BRICK			1						Asset Armoring

PIPELINE INFORMATION						
ASSET ID #	DIAMETER (IN.)	LENGTH (FT.)	MATERIAL	WDC #967	WDC #985	COMMENTS
				PIPE LINING MAINLINE SEWER (LF.)	PIPE RELAY MAINLINE SEWER (LF.)	
05029002S	21	214	VCP	214		LINE
05029003S	18	218	VCP	218		LINE
05029004S	18	196	VCP	196		LINE

GRAPHIC SCALE

HORZ: 50 0 25 50 100

SCALE: 1 inch = 50 ft

A graphic scale for horizontal measurements. The scale is marked from 0 to 100 in increments of 25. The 0 mark is at the left end. The 50 mark is at the center. The 100 mark is at the right end. Below the scale, the text "HORZ:" is followed by a series of black and white horizontal bars. The first bar is 50 units long, the second is 0 units long, the third is 25 units long, the fourth is 50 units long, and the fifth is 100 units long. Below these bars, the text "SCALE: 1 inch = 50 ft" is written.

<p style="text-align: center;"><b>PROFESSIONAL CERTIFICATION</b></p> <p>BY CERTIFY THAT THESE MENTS WERE PREPARED OR ED BY ME, AND THAT I AM A LICENCED PROFESSIONAL ER UNDER THE LAWS OF TE OF MARYLAND.</p>	
 <p style="text-align: center;">STATE OF MARYLAND EVAN R. ANDREWS</p>	

The image shows the official seal of the State of Maryland on the left, featuring a central shield with a plow, a sheaf of wheat, and a scroll, surrounded by a border with the state's name. To the right of the seal is a circular registration stamp for a professional engineer. The stamp has a decorative border and contains the text "PROFESSIONAL ENGINEER" at the top and "REGISTERED" in the center. At the bottom, it says "NO. 29609" and includes the Maryland state motto "Ense petit placidam sub libertate quietem".

ASK ORDER NO. 05-17

VSSC PIPELINE DESIGN DIVISION  
WATER INFRASTRUCTURE SECTION

---

DATE PDD PROJECT MANAGER

NUMBER : CICKCNCRMH7360A22

	NO	9
212NW03 & 213NW03	QE	44

VERIFY SCALE





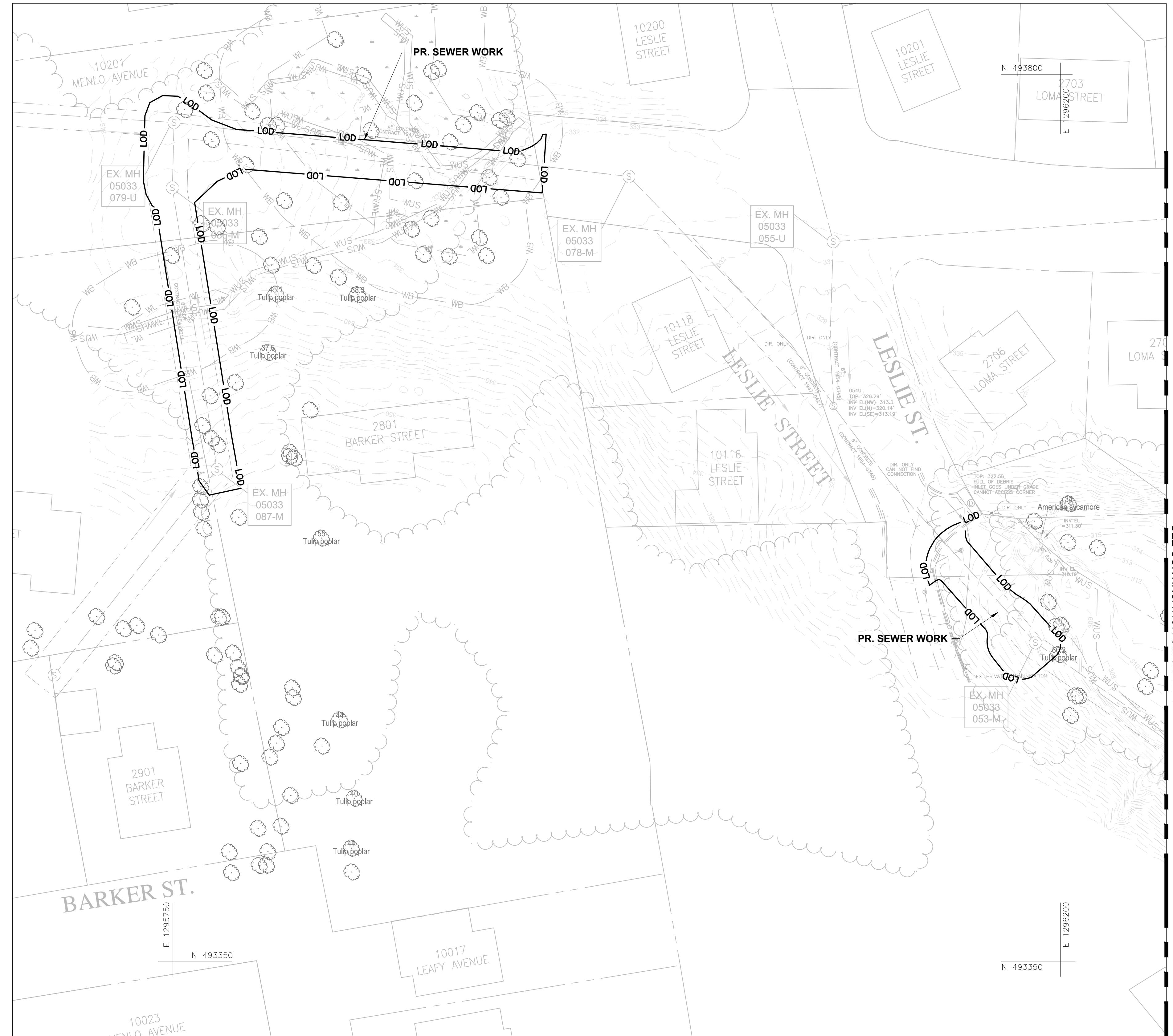
1. A PRE-CONSTRUCTION MEETING WITH THE WSSC CONSTRUCTION MANAGER, WSSC CONSTRUCTION INSPECTOR, LANDOWNER, URBAN FORESTER, CONTRACTOR'S SUPERINTENDENT, E&SC INSPECTOR, DESIGN ENGINEER, MDE, WSSC'S STREAM RESTORATION PROFESSIONAL (SRP), AND ALL APPLICABLE REGULATORY AGENCIES SHALL OCCUR TO ENSURE FULL UNDERSTANDING OF THE PROJECT GOALS, DESIGN INTENT, AND FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. ALL WORK ON M-NCPPC PARKLAND SHALL ALSO COMPLY WITH INDIVIDUAL PARK PERMIT CONDITIONS.
2. CONTRACTOR SHALL IMPLEMENT MDE WATERWAY CONSTRUCTION GUIDELINES AND MDE BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAIN THROUGHOUT CONSTRUCTION. ALL IN-CHANNEL CONSTRUCTION SHALL OCCUR "IN THE DRY" WITH CORRECTLY INSTALLED AND MAINTAINED STREAM DIVERSION PRACTICES TO MINIMIZE DOWNSTREAM SEDIMENT. CONTRACTOR IS RESPONSIBLE FOR CONTROL OF WATER THROUGHOUT CONSTRUCTION, INCLUDING STREAM FLOWS AND RUNOFF THROUGH DISTURBED AREAS. CONTRACTOR SHALL ALSO BE FAMILIAR WITH ALL DESIGN DETAILS AND THESE STREAM RESTORATION GUIDELINES.
3. IN-STREAM AREAS WHERE PUMP-AROUND/STREAM DIVERSION IS REMOVED AT THE END OF THE WORKDAY MUST BE COMPLETED AND STABILIZED DAILY. DISTURBED AREAS ABOVE BASEFLOW SHALL RECEIVE NATIVE RIPARIAN SEED AND WEED-FREE STRAW MULCH AT THE END OF EACH WORKDAY. ONCE STREAM FLOW IS RE-ESTABLISHED AT THE END OF THE WORKDAY, THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME TO INSPECT THE NEW FLOW PATTERN AND MAKE APPROPRIATE ADJUSTMENTS TO ENSURE NON-EROSIVE CONDITIONS BEFORE VACATING THE SITE.
4. THE SRP, AN INDIVIDUAL FAMILIAR WITH STREAM RESTORATION REVETMENT DESIGN FEATURES AND WATERWAY CONSTRUCTION TECHNIQUES, WILL OVERSEE AND COORDINATE CONSTRUCTION ACTIVITIES ON BEHALF OF WSSC TO ENSURE A STABLE STREAM CONDITION IS ESTABLISHED WITH THE PROTECTION OF NATURAL RESOURCES. THE SRP SHALL BE SEPARATE FROM THE ON-SITE CONSTRUCTION CREW. THE SRP SHALL BE EMPOWERED BY WSSC (AND WORK IN CONJUNCTION WITH WSSC) TO DIRECT THE CONTRACTOR'S WORK AS NEEDED TO ENSURE DESIGN INTENT IS ACHIEVED. THE SRP SHALL COORDINATE ADJUSTMENTS AND ACCEPTANCE OF STRUCTURES WITH WSSC CONSTRUCTION MANAGER AND THE LANDOWNER AS CONSTRUCTION PROGRESSES.
5. CONTRACTOR SHALL TAKE CARE TO PROTECT TREES (INCLUDING TRUNKS/ROOTS) DESIGNATED TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL TREE PROTECTION MEASURES AND TREE REMOVALS WITH CONSTRUCTION MANAGER AND LANDOWNER PRIOR TO CONSTRUCTION. PROTECTION MEASURES, SUCH AS HARDWOOD MATS, TREE PLANKING, ROOT AERATION MATTING, EQUIPMENT RESTRICTIONS, MULCH ROADS, TREE PROTECTION FENCING, ROOT PRUNING, ETC. MUST BE INSTALLED BEFORE EQUIPMENT ENTERS WORK AREAS. ADDITIONAL TREE PROTECTION MEASURES NOT INDICATED ON THE PLAN SET MAY BE REQUIRED AT THE DIRECTION OF THE LANDOWNER.
6. ACCESS ROUTES, LOD, TPF LOCATIONS, AND STAGING AREAS SHALL BE FIELD ADJUSTED WITH CONSTRUCTION MANAGER AND SRP TO MINIMIZE IMPACTS TO NATURAL RESOURCES. EQUIPMENT RESTRICTIONS (E.G., <8 PSI LOADED GROUND PRESSURE) MAY BE REQUIRED IN SENSITIVE AREAS. ACCESS ROUTES WILL BE LIMITED TO 12' WIDTH, UNLESS OTHERWISE APPROVED.
7. CONTRACTOR SHALL COORDINATE WITH SEDIMENT CONTROL INSPECTOR, SRP, CONSTRUCTION MANAGER, AND LANDOWNER TO UTILIZE TRENCHLESS SEDIMENT CONTROLS (I.E. COMPOST SOCKS, TRENCHLESS SILT FENCES, ETC.) AND/OR DAILY STABILIZATION WHERE APPROPRIATE TO AVOID CUTTING THROUGH MATURE TREE ROOT SYSTEMS. WHERE TRENCHING IS REQUIRED, CONTRACTOR SHALL ROOT PRUNE PRIOR TO EXCAVATION AT THE DIRECTION OF CONSTRUCTION MANAGER.
8. CONTRACTOR IS RESPONSIBLE FOR PROCURING AND INSTALLING FISH NETS AND FENCING AND COMPLETING FISH RESCUES ASSOCIATED WITH ALL PUMP-AROUNDS/STREAM DIVERSIONS. FISH RESCUE TEAMS SHOULD CONSIST OF PROPERLY TRAINED PERSONNEL, BASED ON MARYLAND BIOLOGICAL STREAM SURVEY (MBSS) STANDARDS, USING ELECTROFISHING EQUIPMENT. A LIST OF PERSONNEL CERTIFIED IN MBSS PROTOCOLS CAN BE FOUND AT <HTTP://DNR.MARYLAND.GOV/STREAMS/PAGES/MBSSFCERTIFIED.ASPX>. FISH RESCUES REQUIRE THREE (3) WORKING DAYS ADVANCE NOTIFICATION TO LANDOWNER. FISH NETS AND FENCES MUST BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE DURATION OF THE PUMP-AROUND/STREAM DIVERSION. CONTRACTOR SHALL COORDINATE WITH SRP AND CONSTRUCTION MANAGER IF A LARGE STORM IS FORECAST TO DETERMINE IF FISH NETS SHOULD BE TEMPORARILY REMOVED AND ALSO IF RE-FISHING IS NEEDED FOLLOWING STORM EVENT.
9. CONTRACTOR SHALL SURVEY EXISTING RIFFLES UPSTREAM/DOWNSTREAM OF THE PROJECT AREA AND LOCATE CRITICAL DESIGN POINTS (CENTERLINE STATION, OFFSETS, ELEVATIONS, STRUCTURES, ETC.) ALONG THE STREAM CHANNEL. ALL DIMENSIONS AND ELEVATIONS OF STRUCTURES SHALL BE FIELD ADJUSTED PRIOR TO INSTALLATION IN COORDINATION WITH THE SRP AND CONSTRUCTION MANAGER TO ENSURE ASSET COVERAGE AS WELL AS PROPER ORIENTATION, STABILITY, FISH PASSAGE, AND SMOOTH TIE-IN TO ADJACENT FEATURES. ADJUSTMENT SHALL ALSO BE MADE TO MINIMIZE DISTURBANCE TO TREES/TREE ROOTS AND ENSURE FUNCTIONALITY OF COMPLETED CONSTRUCTION. CONTRACTOR SHALL MAINTAIN PROPER EQUIPMENT ONSITE TO CHECK GRADES AS CONSTRUCTION PROGRESSES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING STAKEOUT DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE BY CONSTRUCTION MANAGER AND LANDOWNER.
10. CONSTRUCTION OF IN-STREAM REVETMENTS, INCLUDING GRADE CONTROL, BANK STABILIZATION AND HABITAT STRUCTURES, SHALL BE INSPECTED BY SRP, CONSTRUCTION MANAGER, AND LANDOWNER UNDER BASEFLOW (NOT PUMP-AROUND/DIVERSION) CONDITIONS TO DETERMINE ANY MODIFICATIONS REQUIRED PRIOR TO ACCEPTANCE. SUBSEQUENT INSPECTIONS FOLLOWING STORM EVENTS MAY RESULT IN ADDITIONAL MODIFICATIONS. CONTRACTOR IS ENCOURAGED TO UTILIZE CONSTRUCTION EQUIPMENT FOR COMPACTION OF COMPLETED STRUCTURES TO ENSURE STABILITY, AS WELL AS SMALL PUMPS TO WASH IN MATERIAL AFTER THE COMPLETION OF SINGLE STRUCTURES.
11. COMPLETED GRADE CONTROL STRUCTURES WILL HAVE FLOW OVER THE APEX DURING BASEFLOW CONDITIONS WITH CONSISTENT ARM SLOPES UP FROM THE APEX TO A STABLE SILL TIE-IN AT BANKFULL INTO EXISTING GROUND. RIFFLES SHALL HAVE SURFACE FLOW ALONG THE THALWEG THROUGHOUT THE ENTIRE RIFFLE LENGTH AND TIE-IN TO BANKFULL ON BOTH BANKS. CONTRACTOR IS RESPONSIBLE FOR ENSURING SMOOTH TRANSITIONS AT UPSTREAM AND DOWNSTREAM ENDS OF WORK AREAS AND BETWEEN THE STREAMBED AND ITS BANKS.
12. ALL EXPOSED STONE (INCLUDING STONE TOE, IMBRICATED ROCK WALLS, ROCK PACKS, ETC.) ABOVE BANKFULL DEPTH SHALL BE BACKFILLED WITH TOPSOIL/COMPOST TO WITHIN 2-INCHES OF ROCK SURFACE AND VEGETATED WITH NATIVE RIPARIAN SEED AND WEED-FREE STRAW MULCHED.
13. VOIDS SHOULD NOT BE LEFT IN ANY COMPLETED IN-STREAM STRUCTURES. STRUCTURES SHOULD BE BACKFILLED WITH BED STABILITY MIX AND/OR STREAM BED MIX TO FILL ALL VOIDS, INCLUDING HAND PLACEMENT OF STONE.
14. COMPLETED STREAMBED PROFILE SHALL NOT HAVE REVETMENT DROPS GREATER THAN 0.5' AND CONSTRUCTED RIFFLES SHALL NOT BE STEEPER THAN 3% TO ENSURE FISH PASSAGE, UNLESS OTHERWISE INDICATED ON THE PLANS OR APPROVED BY CONSTRUCTION MANAGER. CONTRACTOR WILL BE REQUIRED TO MODIFY/AUGMENT CONSTRUCTED REVETMENTS THAT CREATE FISH PASSAGE RESTRICTIONS AT BASEFLOW, AS DIRECTED BY SRP, CONSTRUCTION MANAGER, AND LANDOWNER.
15. ANY DISTURBED BANKS AND RIPARIAN AREAS SHALL BE SEEDED WITH NATIVE RIPARIAN SEED AND STABILIZED WITH WEED-FREE STRAW MULCH. EROSION CONTROL MATTING (DETAIL 617) SHALL BE INSTALLED TO STABILIZE UP TO TOP OF BANK.
16. STONE OF SERPENTINE ORIGIN, MATTING CONTAINING MONOFILAMENT/PLASTICS, AND METAL SOD STAPLES ARE NOT PERMITTED ON M-NCPPC PARKLAND.
17. CONTRACTOR MUST SUBMIT REDLINE AS-BUILTS TO WSSC AND LANDOWNER FOR REVIEW AND APPROVAL (PLAN AND PROFILE) THAT SHOW IN-STREAM STRUCTURES, CHANNEL DIMENSIONS, AND FEATURES WITH FIELD SURVEYED ELEVATIONS.
18. APPROVED SEED MIXES SHALL BE UTILIZED. ANY MODIFICATIONS TO THESE MIXES MUST BE APPROVED BY CONSTRUCTION MANAGER AND LANDOWNER.

1. A PRE-CONSTRUCTION MEETING WITH THE M-NCPPC (PARKS) CONSTRUCTION INSPECTOR, URBAN FORESTER, PARK MANAGER, ENGINEER, AND APPLICANT'S STREAM RESTORATION DESIGNER (SRD) SHALL OCCUR TO ENSURE FULL UNDERSTANDING OF THE PROJECT GOALS, DESIGN INTENT, AND FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. (THE APPLICANT IS RESPONSIBLE FOR COORDINATION WITH MDE AND OTHER REGULATORY AGENCIES AS REQUIRED BY PERMITS.) CONTACT PARKS REPRESENTATIVE 72 HOURS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL BE FAMILIAR WITH MDE WATERWAY CONSTRUCTION GUIDELINES AND MDE BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS, AND IMPLEMENT THEM THROUGHOUT THE PROJECT, INCLUDING DURING IN-CHANNEL REVETMENT INSTALLATION AND PUMP-AROUND PRACTICES.
3. THE APPLICANT SHALL ENGAGE AN SRD (AN INDIVIDUAL FAMILIAR WITH STREAM RESTORATION REVETMENT DESIGN AND WATERWAY CONSTRUCTION TECHNIQUES) THAT WILL OVERSEE CONSTRUCTION ACTIVITIES TO ENSURE A STABLE STREAM CONDITION IS ESTABLISHED WITH THE PROTECTION OF NATURAL RESOURCES. THIS PERSON SHALL COORDINATE ALL ADJUSTMENTS AND ACCEPTANCE OF STRUCTURES WITH M-NCPPC AS CONSTRUCTION PROGRESSES.
4. M-NCPPC, IN COORDINATION WITH THE SRD AND WSSC SYSTEMS INSPECTION GROUP (SIG), MAY ADJUST THE LIMITS OF THE IN-STREAM STRUCTURES, STREAM BANK STABILIZATION, AND GRADING TO MINIMIZE DISTURBANCE TO TREES/TREE ROOTS AND TO ENSURE FUNCTIONALITY OF DESIGN INTENT IS ACHIEVED. IN ADDITION, CARE SHALL BE TAKEN TO PROTECT TREE ROOTS DURING CONSTRUCTION.
5. CONTRACTOR SHALL SURVEY AND LOCATE CRITICAL DESIGN POINTS (CENTERLINE STATIONS, OFFSETS, ELEVATIONS, STRUCTURES, ETC.) ALONG THE STREAM CHANNEL IN ACCORDANCE WITH APPROVED MDE/COE PLANS. PRIOR TO CONSTRUCTION SRD MAY ADJUST/CONFIRM CONSTRUCTION STAKEOUT TO ENSURE STABILITY AND PROTECT RESOURCES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING STAKEOUT DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE BY M-NCPPC.
6. CONSTRUCTION OF IN-STREAM REVETMENTS, INCLUDING GRADE CONTROLS AND BANK STABILIZATION, SHALL BE INSPECTED AND ACCEPTED BY SIG. PARKS AND SRD SHALL COORDINATE WITH SIG FOR ACCEPTANCE.
7. ACCESS ROUTES (16' WIDE, TYP.) AND STAGING AREAS SHALL BE FIELD ADJUSTED IN COORDINATION WITH PARKS TO MINIMIZE IMPACTS TO NATURAL RESOURCES. EQUIPMENT SIZE RESTRICTIONS (E.G., <8 PSI LOADED GROUND PRESSURE) MAY BE REQUIRED BY M-NCPPC IN SENSITIVE AREAS.
8. CONTRACTOR SHALL COORDINATE TREE PROTECTION MEASURES AND TREE REMOVALS WITH SIG, SRD, AND M-NCPPC. THESE MEASURES (WHICH MAY INCLUDE HARDWOOD MATS, TREE PLANKING, ROOT AERATION MATTING, EQUIPMENT RESTRICTIONS, MULCH ROADS, TREE PROTECTION FENCE, ETC.) MUST BE INSTALLED BEFORE EQUIPMENT ACCESS OVER ROOTS.
9. THE CONTRACTOR SHALL COORDINATE WITH THE WSSC SEDIMENT CONTROL INSPECTOR AND M-NCPPC ON THE USE OF COMPOST SOCKS, TRENCHLESS SILT FENCES AND/OR DAILY STABILIZATION TO AVOID CUTTING THROUGH MATURE TREE ROOT SYSTEMS. WHERE TRENCHING IS REQUIRED, PRUNE ROOTS PRIOR TO TRENCH EXCAVATION AT THE DIRECTION OF M-NCPPC.
10. TREE ROOT SYSTEMS ARE NOT TO BE DISTURBED DURING PLACEMENT OF RIP RAP, VEGETATED ROCK PACKS, AND OTHER SIMILAR STRUCTURES, UNLESS OTHERWISE NOTED ON PLANS OR INSTRUCTED BY M-NCPPC. EXACT EXTENTS OF STONE PLACEMENT SHALL BE DETERMINED IN THE FIELD. WORK SHALL BE COMPLETED IN A MANNER THAT MINIMIZES IMPACTS TO NATURAL RESOURCES, INCLUDING TREES, AQUATIC HABITAT, AND TERRESTRIAL HABITAT.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROL OF WATER THROUGHOUT THE CONSTRUCTION SITE, INCLUDING RUNOFF THROUGH DISTURBED AREAS.
12. IN-STREAM AREAS WHERE PUMP-AROUNDS ARE REMOVED AT THE END OF EACH WORK DAY MUST BE COMPLETED AND STABILIZED DAILY. DISTURBED AREAS ABOVE THE WATERLINE SHALL BE STABILIZED AT THE END OF EACH WORKDAY. ONCE STREAM FLOW IS RE-ESTABLISHED AT THE END OF THE WORKDAY, THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME TO INSPECT THE NEW FLOW PATTERN AND MAKE ADJUSTMENTS AS NECESSARY TO ENSURE NON-EROSIVE CONDITION BEFORE VACATING THE SITE.
13. CONTRACTOR IS RESPONSIBLE FOR ENSURING SMOOTH TRANSITIONS AT UPSTREAM AND DOWNSTREAM ENDS OF WORK AREAS AND BETWEEN THE STREAMBED AND ITS BANKS.
14. THALWEG IS TO BE INSTALLED PER PLAN AND/OR AS DIRECTED BY THE SRD IN COORDINATION WITH M-NCPPC.
15. UPON THE COMPLETION OF STONE STRUCTURES (INCLUDING STONE TOE, ROCK PACK, AND RIP RAP, ETC.), COMPOST MIX SHOULD BE INTEGRATED INTO THE UPPER PORTIONS OF THE COMPLETED STRUCTURE (ABOVE THE BASEFLOW WATER SURFACE) TO ENCOURAGE VEGETATION ESTABLISHMENT.
16. VOIDS SHOULD NOT BE LEFT IN ANY COMPLETED IN-STREAM STRUCTURES. STRUCTURES SHOULD BE FILLED IN WITH STONE AND STREAM BED MIX TO FILL VOIDS.
17. CONSTRUCTED RIFFLES AND OTHER STREAMBED REVETMENTS WILL NOT BE ACCEPTED UNTIL SURFACE FLOW IS ESTABLISHED.
18. IN AREAS WHERE A FISH POOL HABITAT IS SPECIFIED FOR CONSTRUCTION OR PRESERVATION, THE FOLLOWING CONDITIONS ARE DESIRABLE:
  - ROOT-WATER INTERACTION
  - MAINTAINING VOID SPACE BETWEEN ROOTS AND UNDER BANKS
  - RESTORING FLOW PATTERNS AFTER CONSTRUCTION TO PROVIDE ADEQUATE SCOUR WHICH WILL NATURALLY WASH OUT POOLS AND MAINTAIN ADEQUATE HABITAT DEPTH
19. COMPLETED STREAMBED PROFILE WILL NOT HAVE DROPS GREATER THAN SIX INCHES IN ANY ONE LOCATION TO ENSURE FISH PASSAGE. AREAS WHERE THE FINAL GRADE DROP EXCEEDS A SIX-INCH CHANGE IN ELEVATION AT ANY ONE LOCATION SHALL BE ADJUSTED TO ALLOW FISH PASSAGE PRIOR TO FINAL ACCEPTANCE BY M-NCPPC.

## BEST MANAGEMENT PRACTICES FOR WORK IN NONTIDAL WETLANDS

1. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS.
2. USE PREVIOUS EXCAVATED MATERIAL AS BACKFILL UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. USE CLEAN BORROW MATERIAL WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL.
3. ALL EXCESS FILL, SPOIL MATERIAL, DEBRIS, AND CONSTRUCTION MATERIAL SHALL BE DISPOSED OF OUTSIDE THE NONTIDAL WETLAND, TWENTY-FIVE (25) FOOT BUFFER AREA, AND THE ONE HUNDRED (100) YEAR FLOODPLAIN, AND IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF THE NONTIDAL WETLANDS.
4. TEMPORARY CONSTRUCTION TRAILERS OR STRUCTURE, STAGING AREAS, AND STOCKPILES SHALL NOT BE LOCATED WITHIN THE NONTIDAL WETLANDS, BUFFER AREAS OR THE ONE HUNDRED (100) YEAR FLOODPLAIN UNLESS SPECIFICALLY APPROVED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, NONTIDAL WETLANDS, AND WATERWAYS DIVISION.
5. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.) AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
6. RECTIFY ANY TEMPORARILY IMPACTED AREAS BY RESTORING TO EXISTING GRADES AND ELEVATIONS, AND BY PERFORMING APPROPRIATE VEGETATIVE STABILIZATION. WETLANDS AND ADJOINING BUFFER AREAS SHALL NOT BE MOWED OR OTHERWISE MANAGED TO PREVENT THE RE-ESTABLISHMENT OF WOODY VEGETATION.
7. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED BY THE CLASSIFICATION OF THE STREAM. ADHERE TO TIME-OF-YEAR RESTRICTIONS AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.08.02.

<p><b>PROFESSIONAL CERTIFICATION</b></p> <p>I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.</p> <p>NAME: XXXXXXXXXXXX LICENSE NO.: XXXXX EXPIRATION DATE: XX/XX/XXXX</p>	<p><b>WSSC PIPELINE DESIGN DIVISION SEWER INFRASTRUCTURE SECTION</b></p> <p>DATE _____ PDD PROJECT MANAGER _____</p>
<p>I7063A21 - TASK ORDER NO. 05-17 CAPITAL VIEW - ESA CONSTRUCTION (SSR) MDE FUNDED PROJECT GUIDELINES FOR STREAM RESTORATION</p>	
<p>NO 12</p>	



PLAN  
CAPITOL VIEW ESA

SCALE: 1" = 30'

WASHINGTON SUBURBAN SANITARY COMMISSION



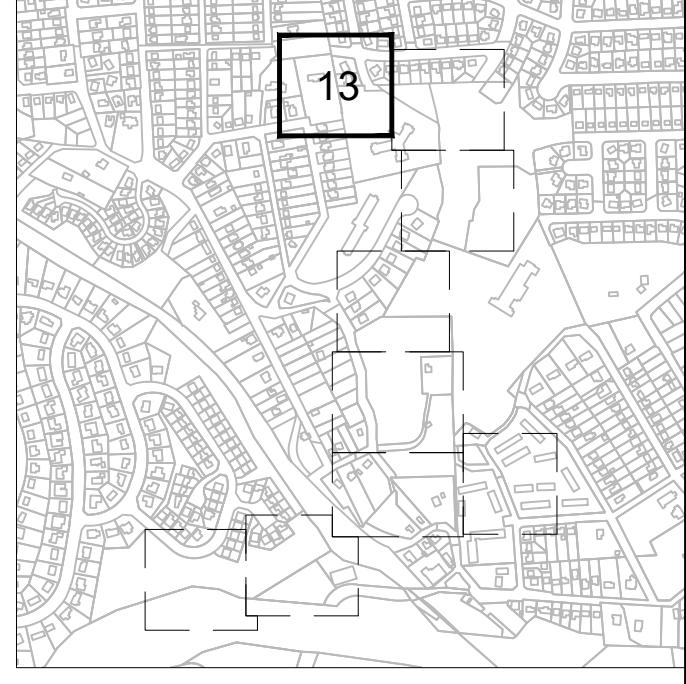
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PRIOR WSSC APPROVAL

**STRAUGHAN ENVIRONMENTAL**  
10245 Old Columbia Road | Columbia, MD 21046  
301.362.9200 | [www.straughanenvironmental.com](http://www.straughanenvironmental.com)

Michael Baker  
INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC.  
1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014  
Phone: (410) 689-3400

IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
PR-01 - GRADING PLAN FOR STREAM RESTORATION



## KEY MAP

SCALE: 1" = 1000'

## LEGEND

- PROPERTY LINE
- SANITARY SEWER PIPE
- SURVEYED STREAM
- WSSC EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DIRECTION OF FLOW
- SANITARY SEWER MANHOLE
- EX. TREE
- LOD
- DOT
- RIFLE GRADE CONTROL (RGC)
- ROCK SILL (RS)
- J-HOOK (JH)
- IMBRICATED RIPRAP WALL (IRW/IRWM)
- CROSS VANE (CV)
- RIPRAP SLOPE PROTECTION
- SIDE CHANNEL TRANSITION
- PRE-PROJECT 100-YR WSEL (HECRAS)
- POST-PROJECT 100-YR WSEL (HECRAS)

## REVIEWED

By Laura DiPasquale at 3:02 pm, Nov 13, 2025

## APPROVED

Montgomery County  
Historic Preservation Commission

DATE

REVISIONS

0 30 60 Feet

NOTE: CONTRACTOR SHALL SUBMIT A LIST OF  
CONSTRUCTION VEHICLES/EQUIPMENT TO BE USED WITHIN  
10 FT OF WSSC WATER/SEWER MAINS FOR GRADING AND  
STREAM RESTORATION WORK.

## PROFESSIONAL CERTIFICATION

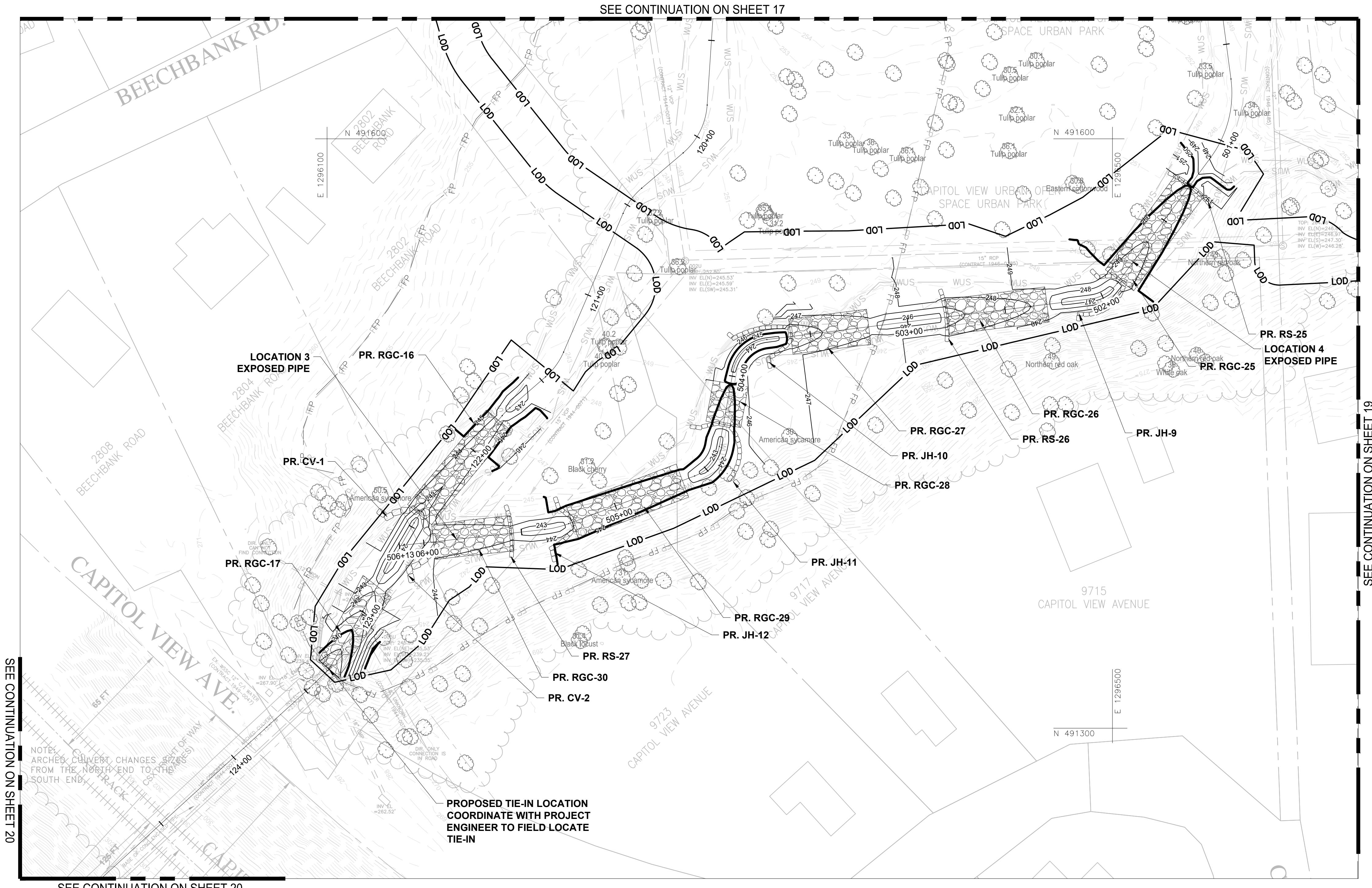
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LICENSE NO.: XXXXXX  
EXPIRATION DATE: XX/XX/XXXX

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE PDD PROJECT MANAGER

JOB NUMBER : CICKCNCRMH7360A22  
NO 13  
OF 44  
200'S 212NW03 & 213NW03



**REVIEWED**  
By Laura DiPasquale at 3:02 pm, Nov 13, 2025

**APPROVED**  
Montgomery County  
Historic Preservation Commission  
*Karen Boulit*

DATE	REVISIONS

NOTE: CONTRACTOR SHALL SUBMIT A LIST OF CONSTRUCTION VEHICLES/EQUIPMENT TO BE USED WITHIN 10 FT OF WSSC WATER/SEWER MAINS FOR GRADING AND STREAM RESTORATION WORK.

**PROFESSIONAL CERTIFICATION**  
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WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE	PDD PROJECT MANAGER

PLAN  
CAPITOL VIEW ESA

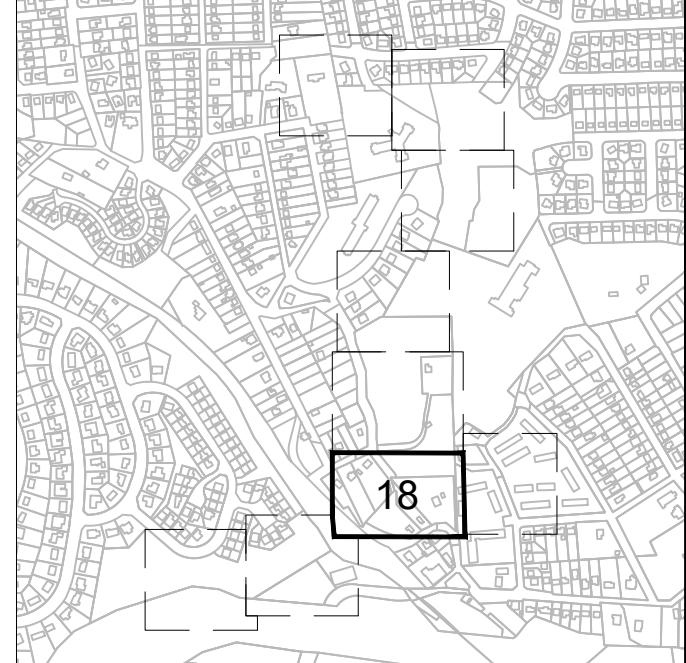
SCALE: 1" = 30'

**STRAUGHAN ENVIRONMENTAL**  
10245 Old Columbia Road | Columbia, MD 21046  
301.362.9200 | [www.straughanenvironmental.com](http://www.straughanenvironmental.com)

MAY, 2025

IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
PR-06 - GRADING PLAN FOR STREAM RESTORATION

JOB NUMBER : CICKCNCRMH7360A22	NO 18
200'S 212NW03 & 213NW03	OF 44



**KEY MAP**

SCALE: 1" = 1000'

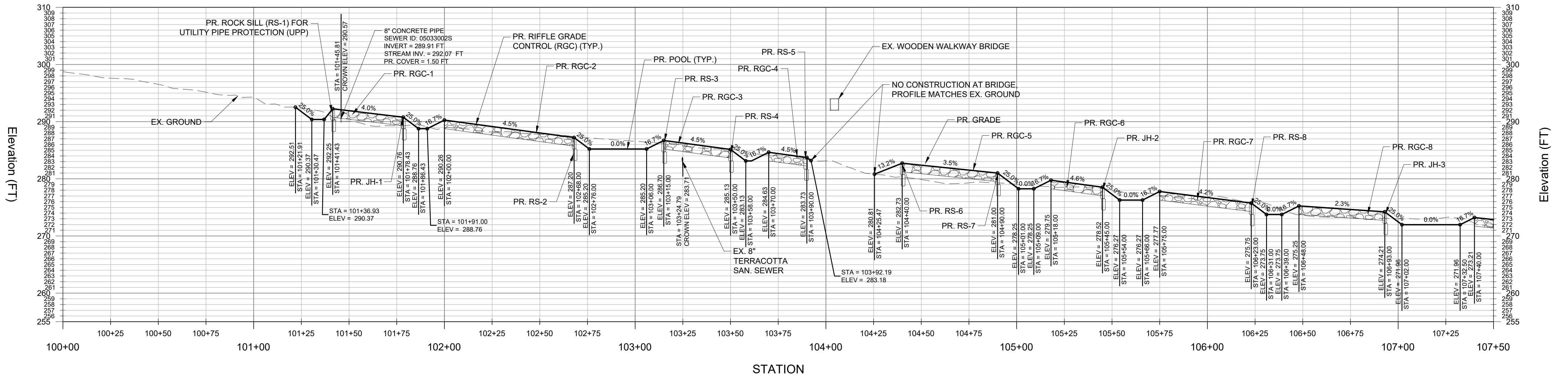
**LEGEND**

PROPERTY LINE
SANITARY SEWER PIPE
SURVEYED STREAM
WSSC EASEMENT
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
DIRECTION OF FLOW
SANITARY SEWER MANHOLE
EX. TREE
LOD
DOT
LOD
RIDGE GRADE CONTROL (RGC)
ROCK SILL (RS)
J-HOOK (JH)
IMBRICATED RIPRAP WALL (IRW/IRWM)
CROSS VANE (CV)
RIPRAP SLOPE PROTECTION
SIDE CHANNEL TRANSITION
FP
FP

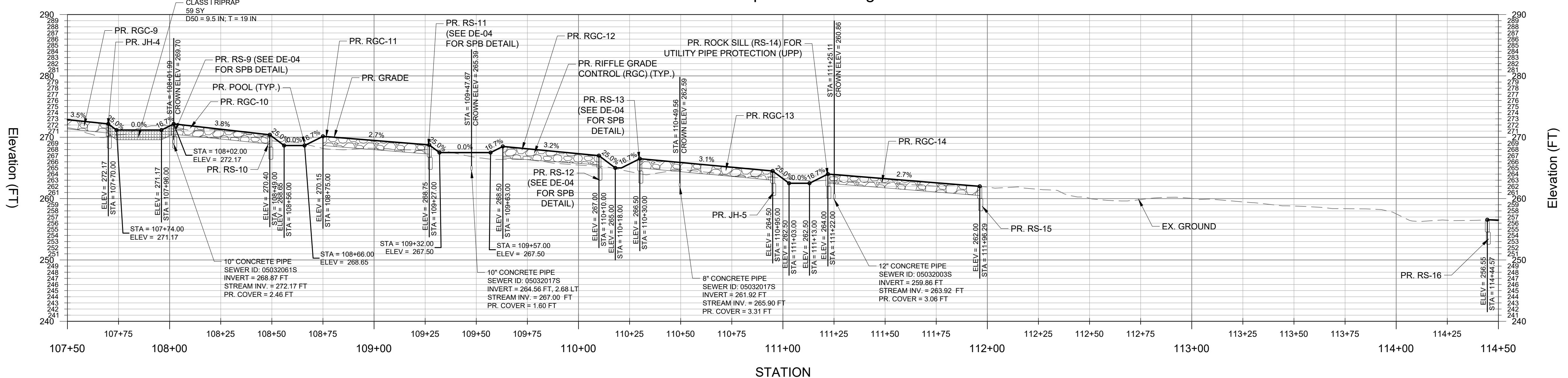
DATE

REVISIONS

# Profile View of Capitol View Design Channel



# Profile View of Capitol View Design Channel



**REVIEWED**  
By Laura DiPasquale at 3:28 pm, Nov 13, 2025

Page 10 of 10

APPROVED  
Montgomery County  
Historic Preservation Commission

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 10'

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WSSC PIPELINE DESIGN DIVISION  
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10.1007/s00332-010-9000-0

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301.362.9200 | [www.straughanenvironmental.com](http://www.straughanenvironmental.com)

**Michael Baker** MICHAEL BAKER INTERNATIONAL, LLC.  
1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014

MAY 2025 LICENSE NO.: XXXXX  
EXPIRATION DATE: XXXXX

EXPIRATION DATE: XX/XX/XXXX  
IDIQ - ESA - CI7063A21 - TASK ORDER NO. 05-17  
**CAPITOL VIEW - ESA**  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
SPP-01 - PROFILED STREAM RESTORATION

JOB NUMBER : CICKCNCRMH7360A22

	NO 22

# WASHINGTON SUBURBAN SANITARY COMMISSION

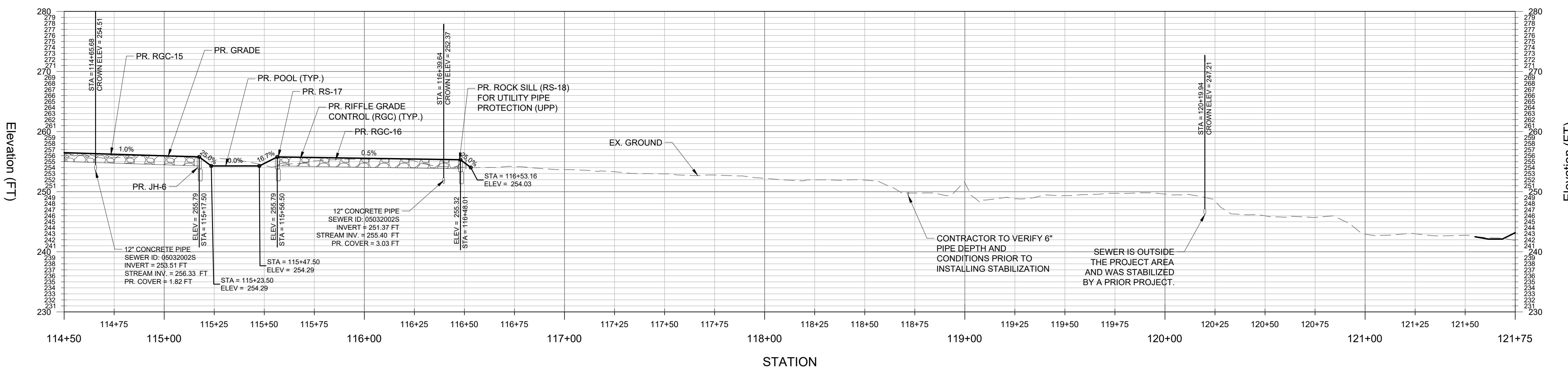


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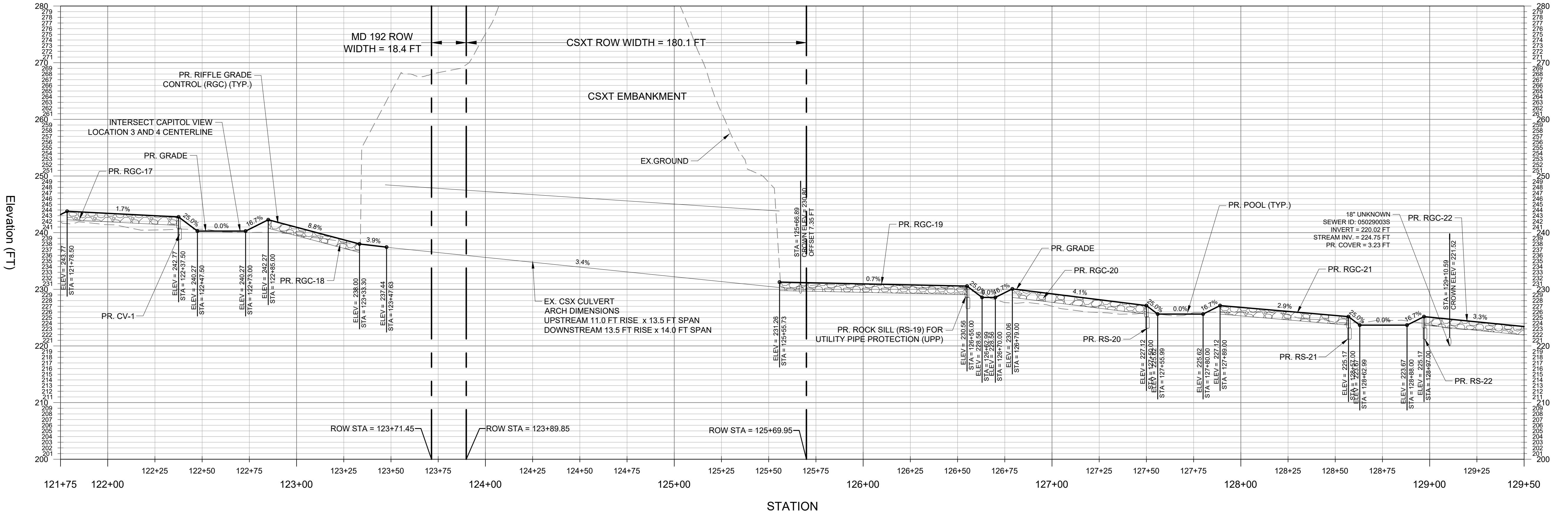
Michael Baker

MICHAEL BAKER INTERNATIONAL, LLC.  
1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014

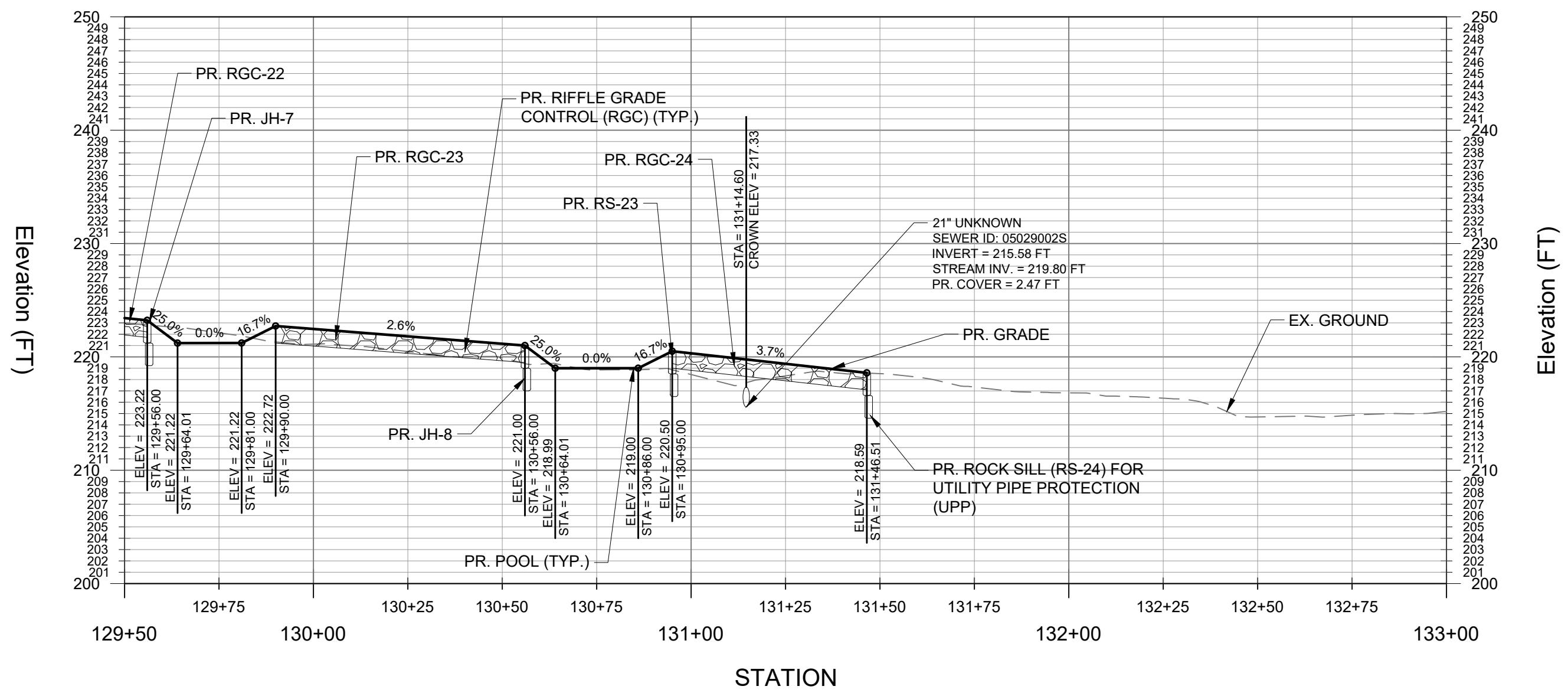
### Profile View of Capitol View Design Channel



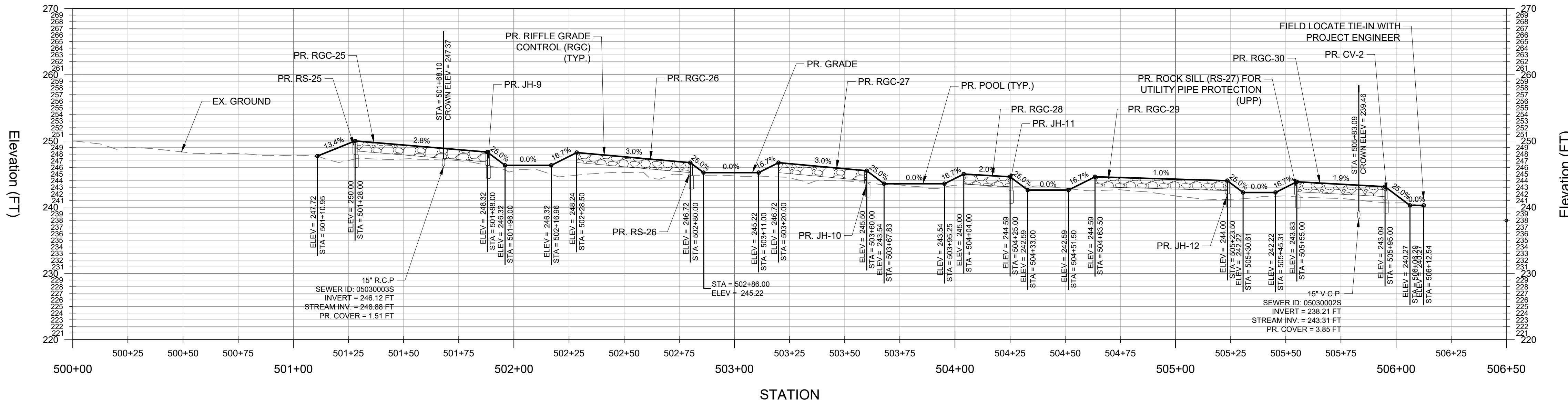
### Profile View of Capitol View Design Channel



### Profile View of Capitol View Design Channel



### Profile View of Capitol View Design Channel 3 & 4



0 30 60 Feet

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 10'

REVIEWED

By Laura DiPasquale at 3:28 pm, Nov 13, 2025

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Karen Bensel*

DATE	REVISIONS

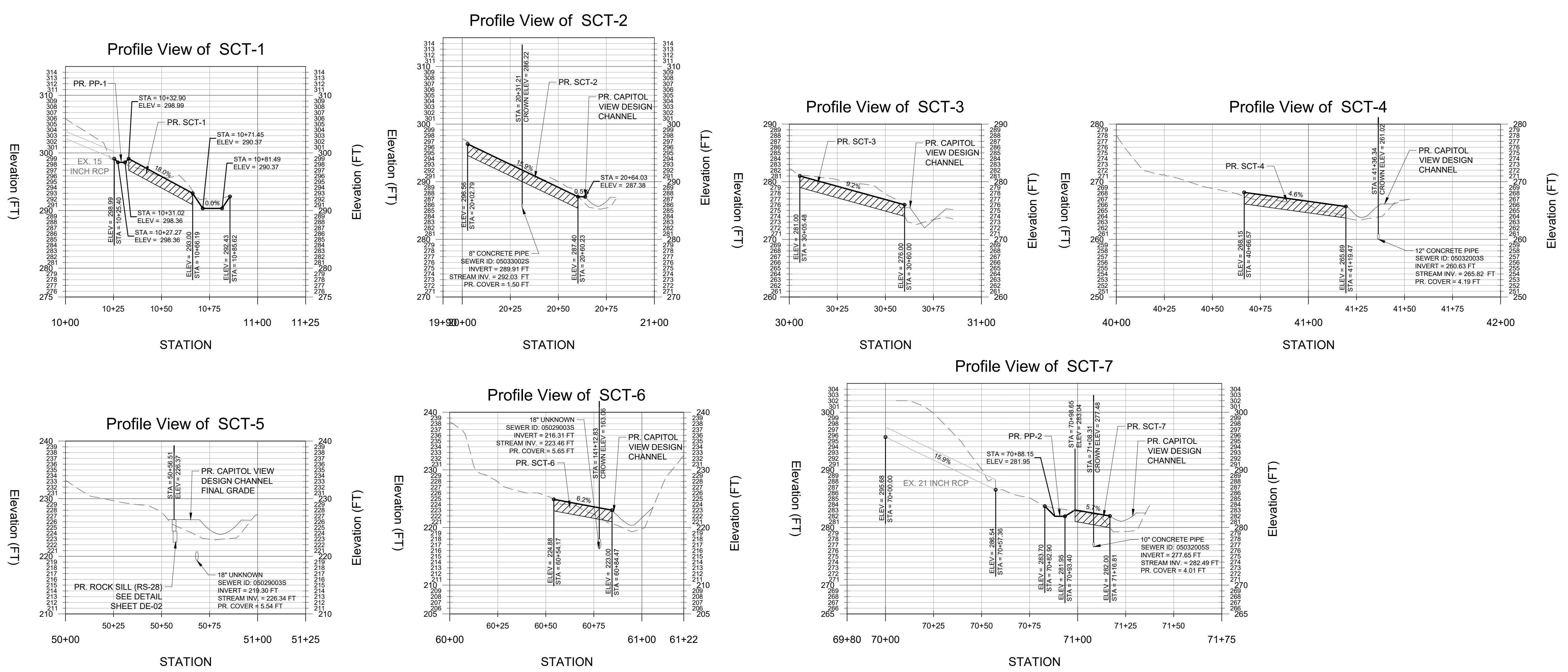
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WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE PDD PROJECT MANAGER



0 30 60 Feet

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 10'

**REVIEWED**  
By Laura DiPasquale at 3:28 pm, Nov 13, 2025

**APPROVED**  
Montgomery County  
Historic Preservation Commission

*Karen Bunting*

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WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE PDD PROJECT MANAGER

JOB NUMBER : CICKCNCRMH7360A22  
NO 25  
200'S 212NW03 & 213NW03  
OF 44

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MAY, 2025

IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
SPR-04 - PROFILES FOR STREAM RESTORATION

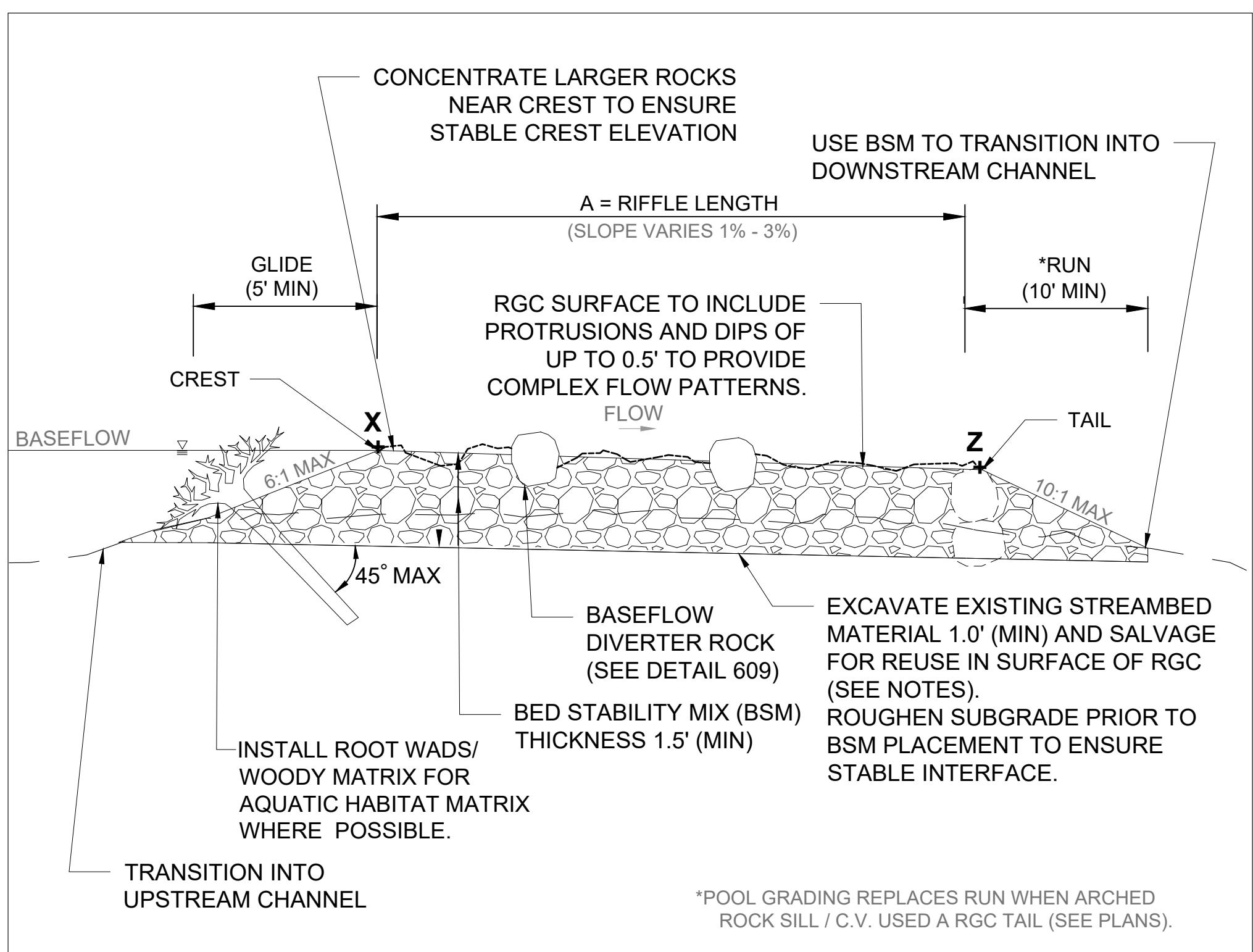
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**WSSC WATER**  
DELIVERING THE ESSENTIAL

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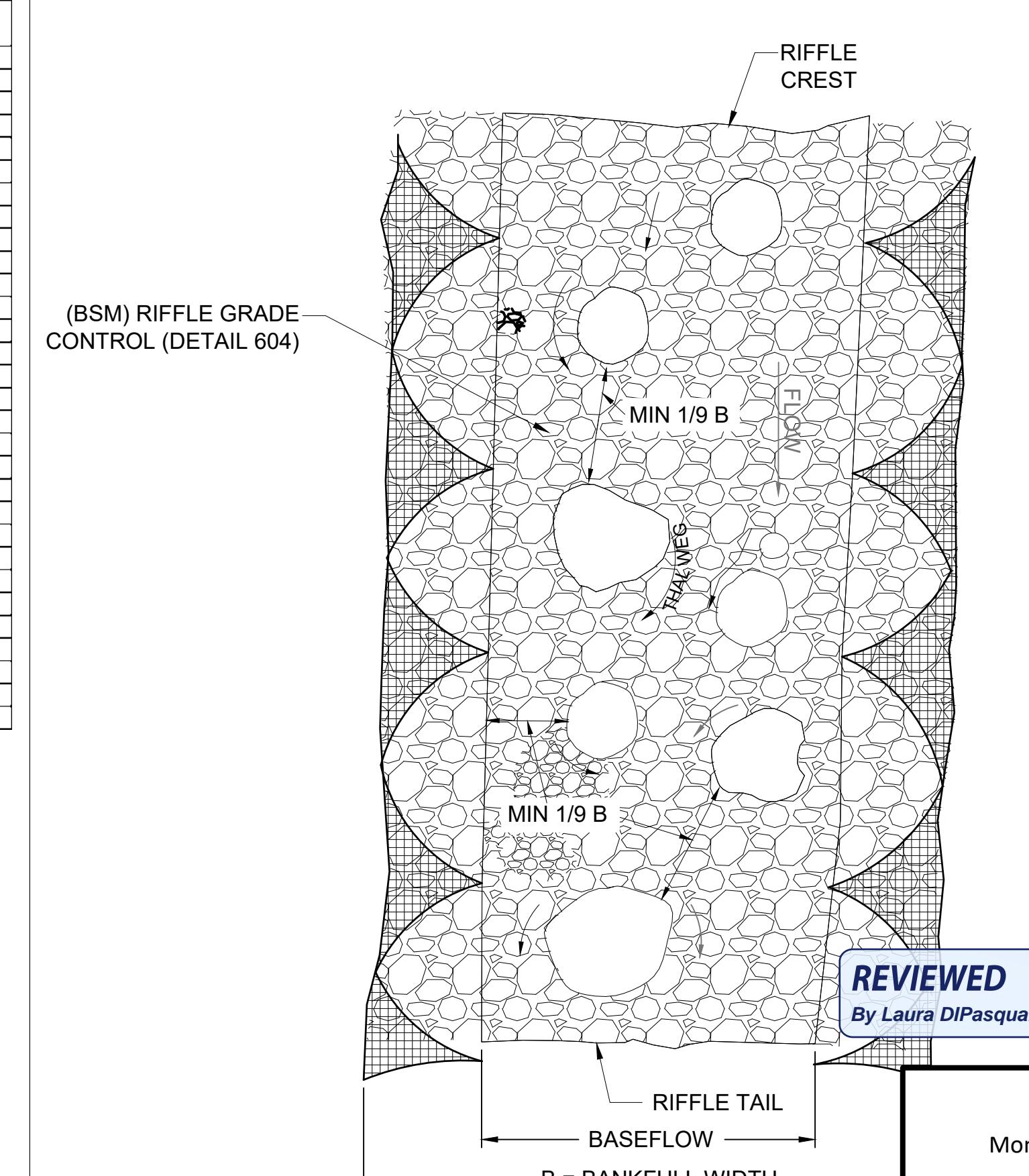
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1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014  
Phone: (410) 689-3400



RIFFLE GRADE CONTROL (RGC) GEOMETRY TABLE											
STR. #	CREST STA.	CREST ELEVATION	TAIL STATION	A (FT)	SLOPE	B (BANKFULL WIDTH) (FT)	D (FT)	E (BANKFULL DEPTH) (FT)	X (MSL)	Z (MSL)	BED STABILITY MIX TYPE
RGC-1	101+41.43	292.25	101+78.43	37.00	0.040	16.0	5.33	1.50	292.25	290.76	E
RGC-2	102+00.00	290.26	102+68.00	68.00	0.045	16.0	5.33	1.50	290.26	287.20	E
RGC-3	103+15.00	286.70	103+50.00	35.00	0.045	16.0	5.33	1.50	286.70	285.13	E
RGC-4	103+70.00	284.63	103+90.00	20.00	0.045	16.0	5.33	1.50	284.63	283.73	E
RGC-5	104+40.00	282.73	104+90.00	50.00	0.035	16.0	5.33	1.50	282.73	281.00	E
RGC-6	105+18.00	279.75	105+45.00	27.00	0.046	16.0	5.33	1.50	279.75	278.52	E
RGC-7	105+75.00	277.77	106+23.00	48.00	0.042	16.0	5.33	1.50	277.77	275.75	E
RGC-8	106+48.00	275.25	106+93.00	45.00	0.023	16.0	5.33	1.50	275.25	274.21	E
RGC-9	107+40.00	273.21	107+70.00	30.00	0.035	16.0	5.33	1.50	273.21	272.17	E
RGC-10	108+02.00	272.17	108+49.00	47.00	0.038	16.0	5.33	1.50	272.17	270.40	E
RGC-11	108+75.00	270.15	109+27.00	52.00	0.027	16.0	5.33	1.50	270.15	268.75	E
RGC-12	109+66.00	268.50	110+10.00	44.00	0.034	16.0	5.33	1.50	268.50	267.00	E
RGC-13	110+30.00	266.50	110+95.00	65.00	0.031	16.0	5.33	1.50	266.50	264.50	E
RGC-14	111+22.00	264.00	111+96.29	74.29	0.027	16.0	5.33	1.50	264.00	262.00	E
RGC-15	114+44.57	255.55	115+17.50	72.93	0.010	16.0	5.33	1.50	255.55	255.79	E
RGC-16	115+56.50	255.79	116+48.01	91.51	0.005	16.0	5.33	1.50	255.79	255.32	E
RGC-17	121+78.50	243.77	122+37.50	59.00	0.017	20.0	6.67	1.50	243.77	242.77	F
RGC-18	122+85.00	242.27	123+33.30	48.30	0.088	20.0	6.67	2.25	242.27	238.00	F
RGC-19	125+55.73	231.26	126+55.72	99.99	0.007	20.0	6.67	2.25	231.26	230.56	F
RGC-20	126+79.72	230.06	127+50.72	71.00	0.041	20.0	6.67	2.25	230.06	227.12	F
RGC-21	127+89.72	227.12	128+55.72	66.00	0.030	20.0	6.67	2.25	227.12	225.17	F
RGC-22	128+97.72	225.17	129+56.72	59.00	0.033	20.0	6.67	2.25	225.17	223.22	F
RGC-23	129+90.72	222.72	130+56.72	66.00	0.026	20.0	6.67	2.25	222.72	221.00	F
RGC-24	130+95.72	220.50	131+47.23	51.51	0.037	20.0	6.67	2.25	220.50	218.59	F
RGC-25	501+28.00	250.00	501+88.00	60.00	0.028	18.0	6.00	1.00	250.00	248.32	E
RGC-26	502+28.50	248.24	502+80.00	51.50	0.030	18.0	6.00	1.00	248.24	246.72	E
RGC-27	503+20.00	246.72	503+60.00	40.00	0.031	18.0	6.00	1.00	246.72	245.50	E
RGC-28	504+04.00	245.00	504+25.00	21.00	0.020	18.0	6.00	1.00	245.00	244.59	E
RGC-29	504+63.50	244.59	505+23.50	60.00	0.010	18.0	6.00	1.00	244.59	244.00	E
RGC-30	505+55.00	243.83	505+95.00	40.00	0.019	18.0	6.00	1.00	243.83	243.09	E

#### RGC NOTES:

1. CONTRACTOR SHALL LAY OUT CRITICAL POINTS OF STRUCTURE TO REVIEW WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. ALL DIMENSIONS AND ELEVATIONS SHALL BE FIELD ADJUSTED IN COORDINATION WITH THE CONSTRUCTION MANAGER TO ENSURE PROPER ORIENTATION, STABLE INSTALLATION, FISH PASSAGE, AND SMOOTH TIE-IN TO ADJACENT FEATURES.
2. WHERE EXISTING CHANNEL GRADES ARE BELOW THICKNESS OF RGC, BACKFILL WITH COMMON BORROW AND COMPACT UP TO 30" BELOW FINISHED GRADE. USE BSM AND/OR APPROVED SALVAGED MATERIAL FOR THE TOP 30" OF RGC.
3. SATISFACTORY SOIL TYPES FOR COMPACTED FILL INCLUDE ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP AND SM OR A COMBINATION OF THESE SOIL GROUPS. SOIL SHALL BE FREE DEBRIS, WASTE, FROZEN MATERIALS, AND OTHER DELETERIOUS MATTER.
4. INSTALL AND COMPACT BSM IN LIFTS NOT TO EXCEED 1'.
5. SET LARGEST (CLASS II/III, AS APPLICABLE) MATERIAL CONCENTRATED NEAR THE RIFFLE CREST AND TAIL TO HOLD GRADE.
6. SUCCESSFUL INSTALLATION ENTAILS:
  - a. SET LARGEST MATERIAL FIRST IN A CHECKERBOARD PATTERN. FINAL TOP ELEVATIONS OF LARGE BOULDERS SHALL BE 0.5' +/- FROM FINISHED THALWEG IN ORDER TO PROVIDE FLOW VARIETY THROUGHOUT THE RIFFLE. BOULDERS TO BE AT LEAST 2/3 BURIED - REFER TO BASEFLOW DIVERTER ROCK DETAIL 609 AS APPLICABLE (FOR BANKFULL WIDTHS >12' ONLY).
  - b. USE NEXT SIZE CLASS (CLASS I) STONE TO BACKFILL Voids BETWEEN LARGEST STONES
  - c. WASH STREAMBED MATERIAL AND/OR BANK-RUN GRAVEL INTO EACH LIFT TO FILL ROCK Voids AND ENSURE SURFACE FLOW. RESERVE SALVAGED NATIVE STREAMBED MATERIAL TO BE USED IN UPPERMOST LIFT.
7. ENSURE MATERIAL LOCKS TOGETHER AND CREATES STABLE TRANSITIONS INTO SURROUNDING FEATURES.
8. SHAPE CHANNEL BED TO FORM A BASEFLOW CHANNEL (APPROXIMATELY 1/3 BANKFULL WIDTH) AND THALWEG. USE BSM TO SLOPE SIDES UP TO MEET ADJACENT BANKS AT BANKFULL.
9. COMPLETED STRUCTURE WILL HAVE SURFACE FLOW DURING BASEFLOW CONDITIONS WITH STABLE SILL TIE-INS AT BANKFULL AND TO UPSTREAM AND DOWNSTREAM CHANNEL.
10. STONE OF SERPENTINE ORIGIN IS NOT PERMITTED.



REVIEWED

By Laura DiPasquale at 3:28 pm, Nov 13, 2025

APPROVED

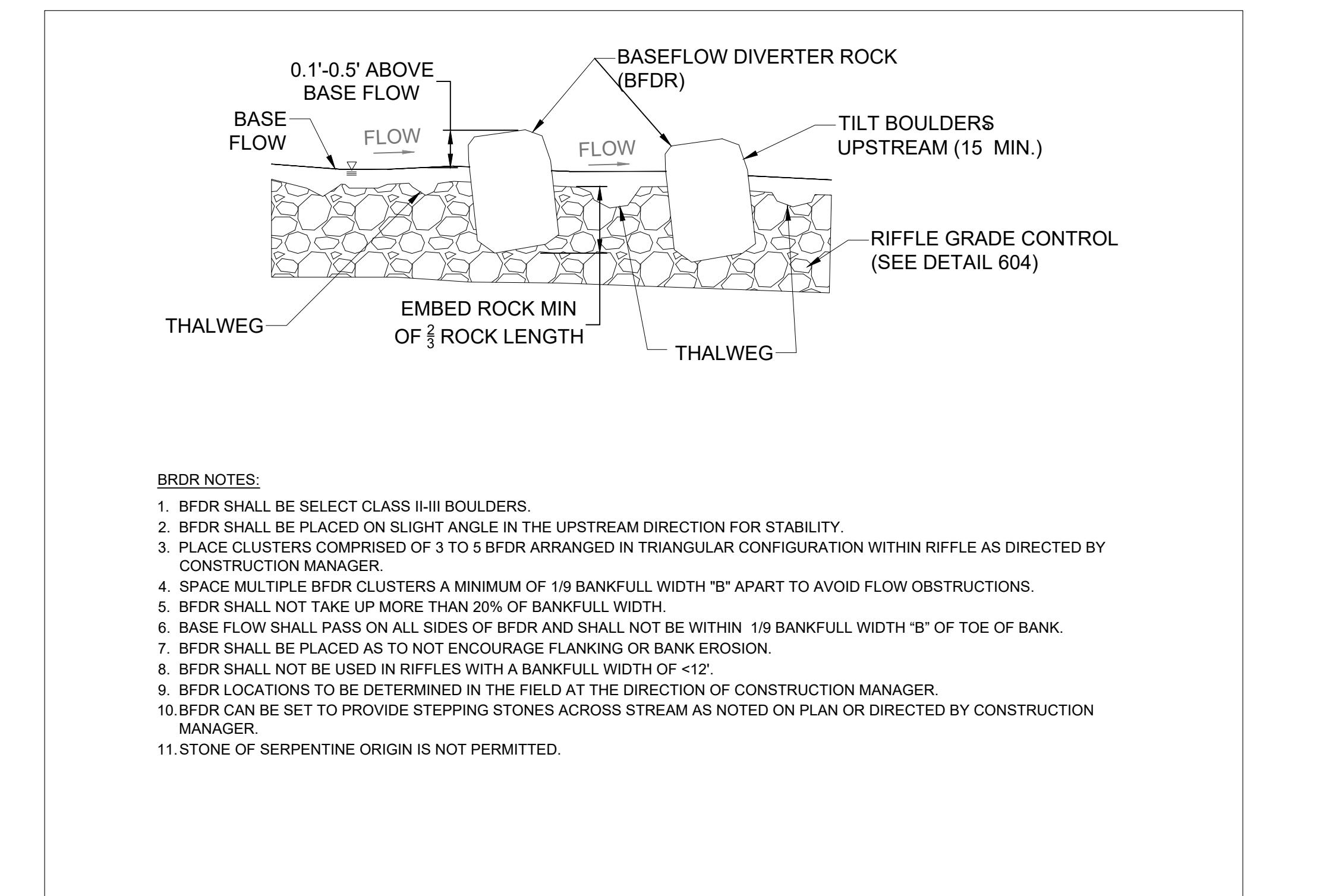
Montgomery County

Historic Preservation Commission

*Karen Boulit*

#### RIFFLE GRADE CONTROL (RGC) DETAIL (STRUCTURE TABLE AND NOTES)

PAGE 3 OF 3 (NTS)



#### BASEFLOW DIVERTER ROCK (BFDR) DETAIL (PROFILE AND NOTES)

PAGE 2 OF 2 (NTS)

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#### 609

#### BASEFLOW DIVERTER ROCK (BFDR) DETAIL (PLAN VIEW)

#### PAGE 1 OF 2 (NTS)

#### MONTGOMERY PARKS BED STABILITY MIX (BSM) TABLES

PURPOSE: BED STABILITY MIX (BSM) IS A MIXTURE OF SANDS, GRAVELS, COBBLES, AND ROCKS THAT ARE INSTALLED WITHIN STREAM CHANNELS TO STABILIZE AREAS OF HIGH STRESS, PROVIDE CHANNEL SHAPING, AND CREATE LONG-TERM STABILITY, SURFICIAL FLOW, AQUATIC HABITAT, AND FISH PASSAGE.

BSM TYPE: SELECTION OF BSM TYPE FOR A PARTICULAR PROJECT SHOULD BE MADE BASED ON CHANNEL SIZE, STREAM GRADIENT, ANTICIPATED WATER POWER, ETC.

#### TYPE E (BFw<24') MODERATE STRESSES

MATERIAL SIZE	PERCENTAGE OF BSM
BRG/NATIVE SBM	20%
CLASS 0	10%
CLASS I	30%
CLASS II	40%
TOTAL	100%

#### TYPE F (BFw<30') MODERATE STRESSES

MATERIAL SIZE	PERCENTAGE OF BSM
BRG/NATIVE SBM	20%
CLASS I	30%
CLASS II	30%
CLASS III	20%
TOTAL	100%

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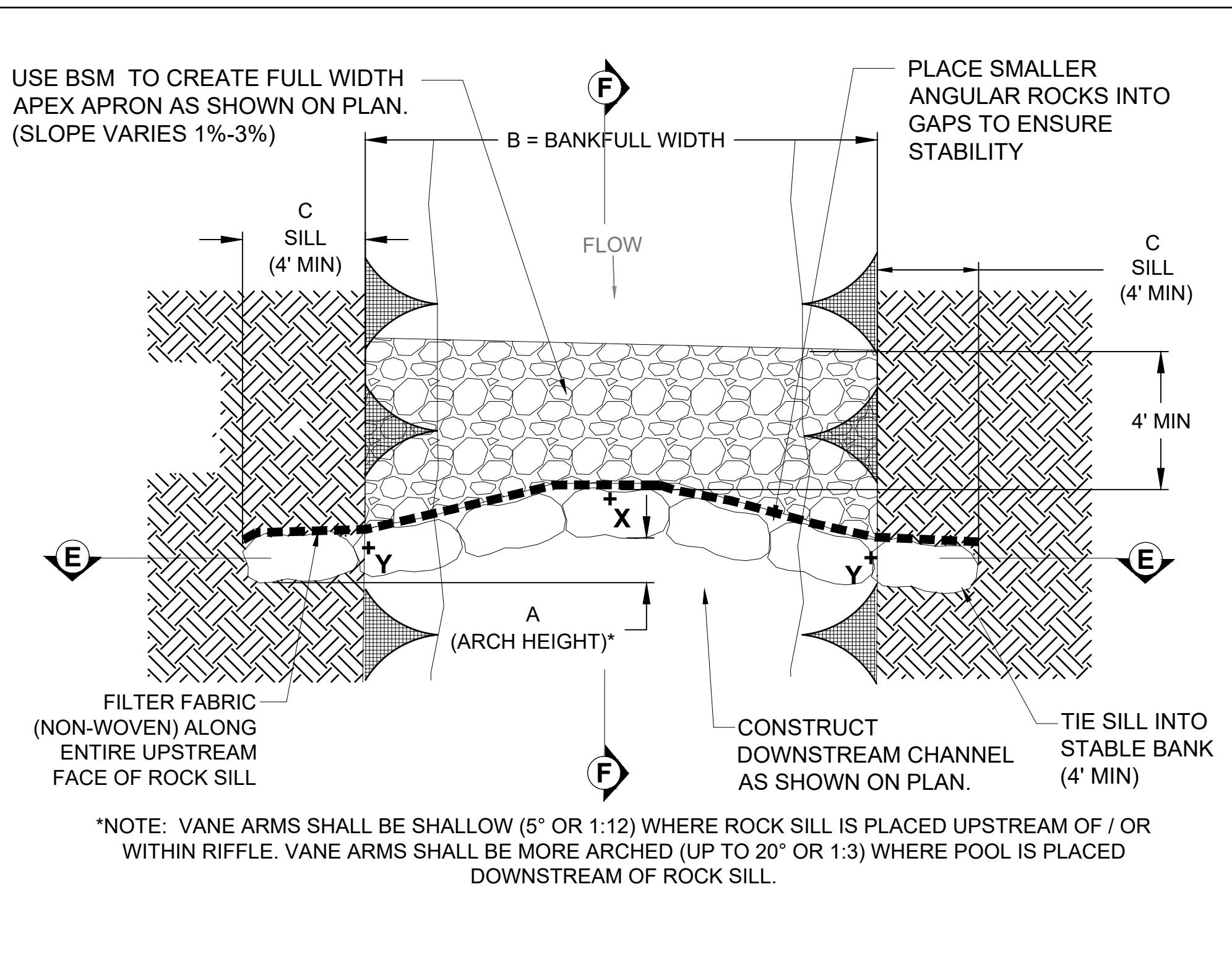
CAPITOL VIEW - ESA

SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT

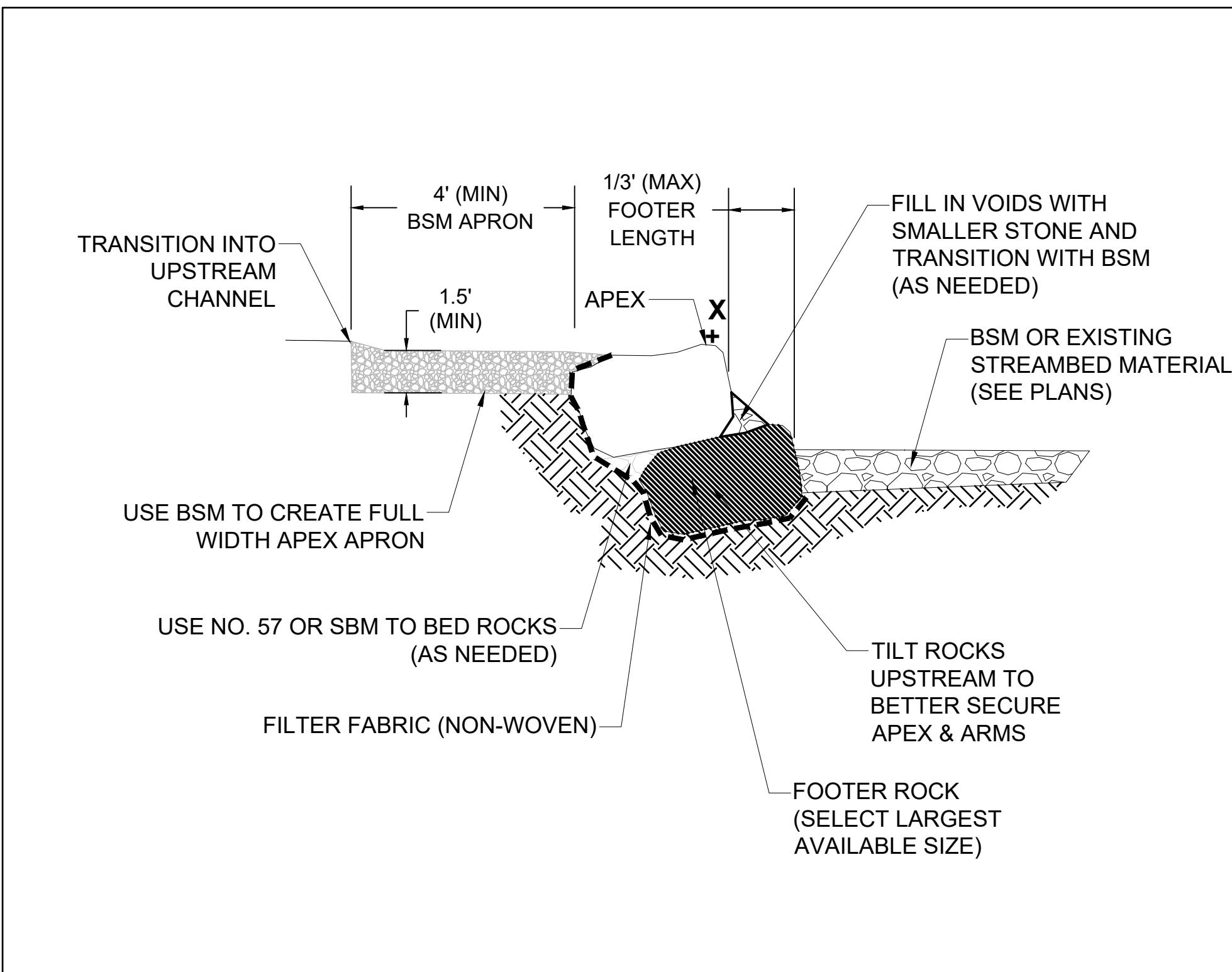
DE-01 - STREAM CONSTRUCTION DETAILS

WSSC PIPELINE DESIGN DIVISION

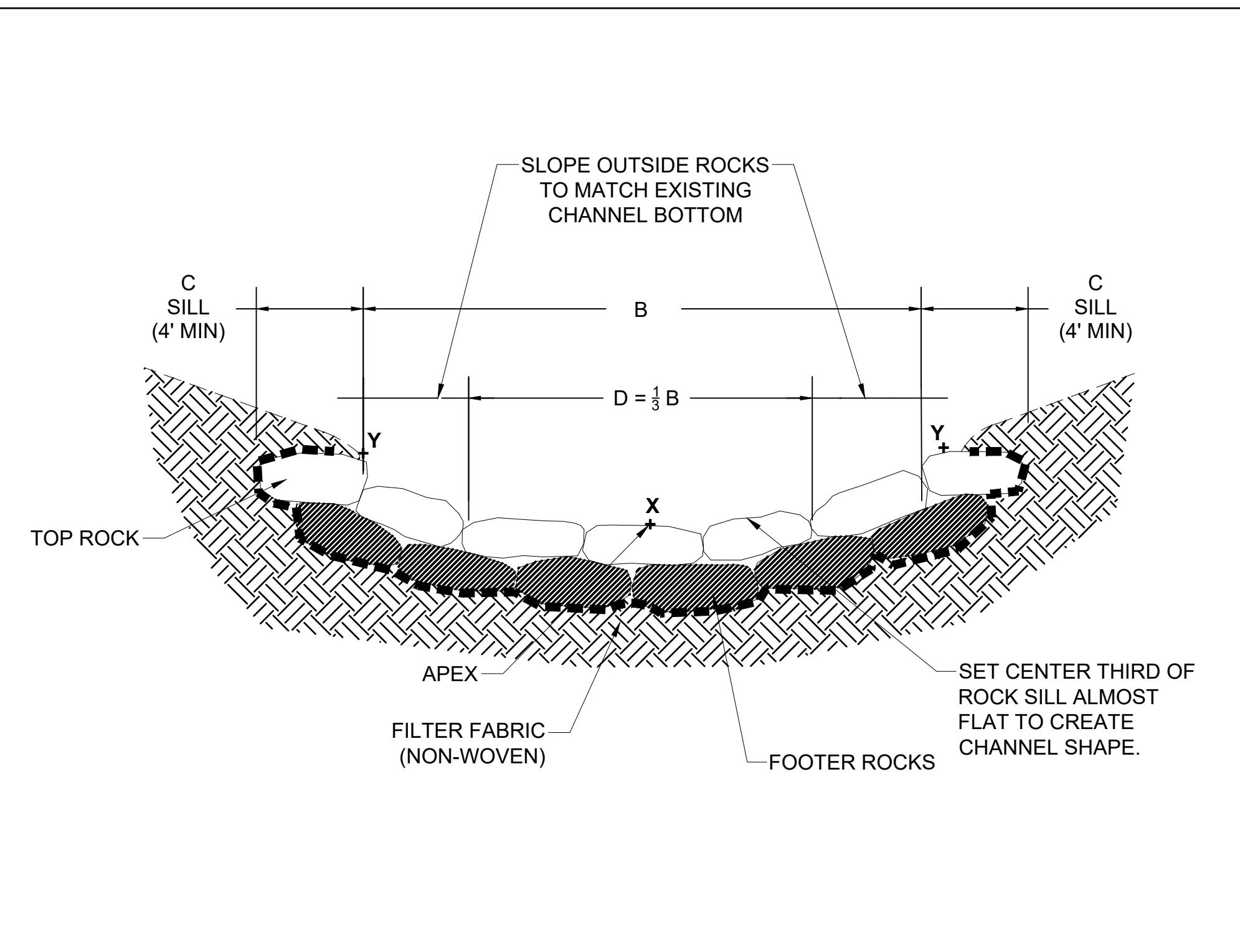
SEWER INFRASTRUCTURE SECTION



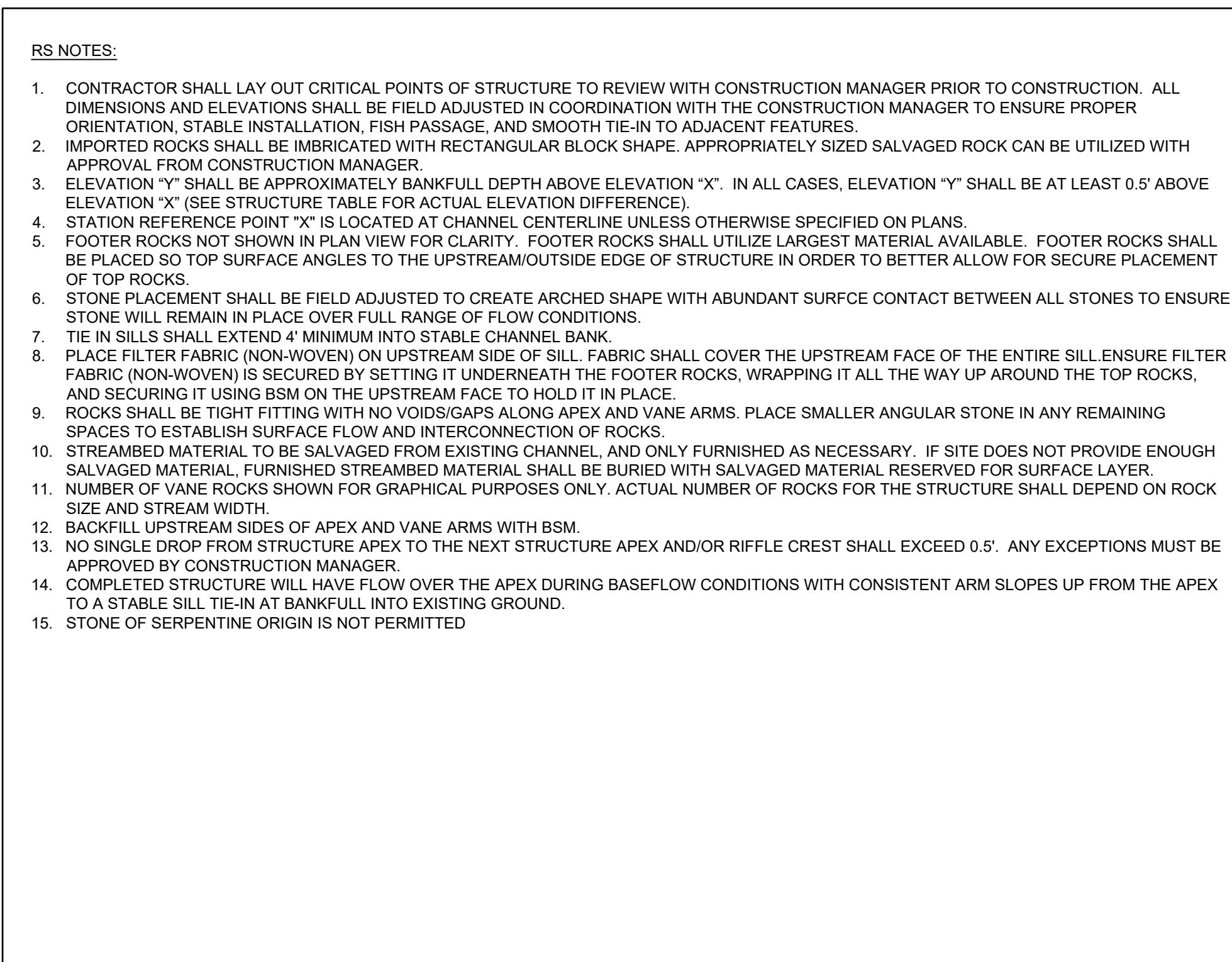
603  
1  
ROCK SILL (RS) DETAIL (PLAN VIEW)  
PAGE 1 OF 4 (NTS)



603  
3  
ROCK SILL (RS) DETAIL (SECTION F-F)  
PAGE 3 OF 4 (NTS)



603  
2  
ROCK SILL (RS) DETAIL (SECTION E-E)  
PAGE 2 OF 4 (NTS)



603  
4  
ROCK SILL (RS) DETAIL (STRUCTURE TABLE AND NOTES)  
PAGE 4 OF 4 (NTS)

MONTGOMERY PARKS IMBRICATED RIP RAP (IRR) TABLES  
PURPOSE: IMBRICATED RIP RAP (IRR) ARE INDIVIDUAL ROCKS WITH ANGULAR FACES THAT ARE USED TO CONSTRUCT IN-STREAM REVETMENTS (I.E. CROSS VENES, J-HOOKS, ROCK SILLS, STONE TOES, WALLS, ETC.) TO SHAPE THE CHANNEL, CONTROL CHANNEL ELEVATIONS, DIVERT FLOW PATHS, PROTECT INFRASTRUCTURE, AND SECURE BANKS WHILE MAINTAINING LONG-TERM STABILITY.  
IRR TYPES: SELECTION OF IRR TYPE FOR A PARTICULAR PROJECTS SHOULD BE MADE BASED ON CHANNEL SIZE, STREAM GRADIENT, ANTICIPATED WATER POWER, ETC. NOTE THAT INDIVIDUAL ROCK SIZES AND SHAPES VARY SIGNIFICANTLY, AND THESE TABLES REPRESENT TARGET WEIGHTS AND SIZES. STABLE INSTALLATION OF IN-STREAM REVETMENTS REQUIRES APPROPRIATE SELECTIONS OF INDIVIDUAL ROCKS AND SECURE PLACEMENT AGAINST OTHER ROCKS TO FORM INTENDED SHAPES AND SLOPES TO ENSURE OVERALL STRUCTURE PERFORMANCE.

NOTES:  
1. IRR MATERIALS SHALL CONSIST OF NATURAL HARD BLUESTONE (I.E. NO CONCRETE, WHITE ROCK, ASBESTOS FIBERS, ETC.).  
2. MANY STREAM CONTAIN EXISTING ROCKS THAT CAN BE HARVESTED AND REUSED FOR IN-STREAM REVETMENTS.  
3. INDIVIDUAL ROCKS SHOULD BE SELECTED AND PLACED BASED ON ANTICIPATED STRESS AND FIT AGAINST ADJOINING ROCKS.  
4. INSTALL FILTER FABRIC IN CONJUNCTION WITH STONE PLACEMENT TO MEET INTENT OF DESIGN DETAILS.  
5. USE OF LARGER ROCKS MAY REDUCE NEED FOR FOOTER ROCKS.  
6. USE OF OVERSIZED ROCKS MAY BE DEDIMENTAL TO DESIGN INTENT, AND PARKS MAY REQUIRE REMOVAL OF OVERSIZED OR MISFIT ROCKS.  
7. WHEN OVERSIZED ROCKS ARE ACCEPTABLE, BUT EXCEED THE DESIGN REQUIREMENTS, PARKS RESERVES THE RIGHT TO MODIFY PAY QUANTITIES ACCORDINGLY.

TYPE 3: MID-LARGE CHANNELS (BFw<30') WITH MODERATE STRESSES	
ITEM	AVE. MEASUREMENT
LENGTH, FT	3
WIDTH, FT	2
THICKNESS, FT	1.5
WEIGHT, LBS	1500

REVIEWED  
By Laura DiPasquale at 3:28 pm, Nov 13, 2025

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Karen Bensel*

STR. #	STA.	POINT "X" C/L OFFSET (FT)	A (ARCH HEIGHT) (FT)	B (BANKFULL WIDTH) (FT)	D (FT)	X (MSL)	Y (MSL)
RS-1	101+41 43	0.00	2.67	16.0	5.33	292.25	294.92
RS-2	102+68 00	0.00	2.67	16.0	5.33	287.20	289.87
RS-3	103+15 00	0.00	2.67	16.0	5.33	286.70	289.37
RS-4	103+50 00	0.00	2.67	16.0	5.33	285.13	287.80
RS-5	103+90 00	0.00	2.67	16.0	5.33	283.73	285.40
RS-6	104+40 00	0.00	2.67	16.0	5.33	282.73	285.40
RS-7	104+90 00	0.00	2.67	16.0	5.33	281.00	283.67
RS-8	108+02 00	0.00	2.67	16.0	5.33	272.17	274.84
RS-9	108+49 00	0.00	2.67	16.0	5.33	270.40	273.07
RS-10	108+75 00	0.00	2.67	16.0	5.33	270.15	272.82
RS-11	109+27 00	0.00	2.67	16.0	5.33	268.75	271.42
RS-12	110+10 00	0.00	2.67	16.0	5.33	267.00	269.67
RS-13	110+30 00	0.00	2.67	16.0	5.33	266.50	269.17
RS-14	111+22 00	0.00	2.67	16.0	5.33	264.00	266.67
RS-15	111+96 29	0.00	2.67	16.0	5.33	262.00	264.67
RS-16	114+44 57	0.00	2.67	16.0	5.33	256.55	259.22
RS-17	115+56 50	0.00	2.67	16.0	5.33	255.79	258.46
RS-18	116+48 01	0.00	2.67	16.0	5.33	255.32	257.99
RS-19	126+55 72	0.00	2.67	16.0	5.33	230.56	233.23
RS-20	127+50 72	0.00	3.33	20.0	6.67	227.12	230.45
RS-21	128+55 72	0.00	3.33	20.0	6.67	225.17	228.50
RS-22	128+97 72	0.00	3.33	20.0	6.67	225.17	228.50
RS-23	130+95 72	0.00	3.33	20.0	6.67	220.50	223.83
RS-24	131+47 23	0.00	3.33	20.0	6.67	218.59	221.92
RS-25	501+28 00	0.00	3.00	18.0	6.00	250.00	253.00
RS-26	502+80 00	0.00	3.00	18.0	6.00	246.72	249.72
RS-27	505+55 00	0.00	3.00	18.0	6.00	243.83	246.83
RS-28	50+56 51	0.00	0.33	2.0	0.67	226.37	226.70

DATE	REVISIONS

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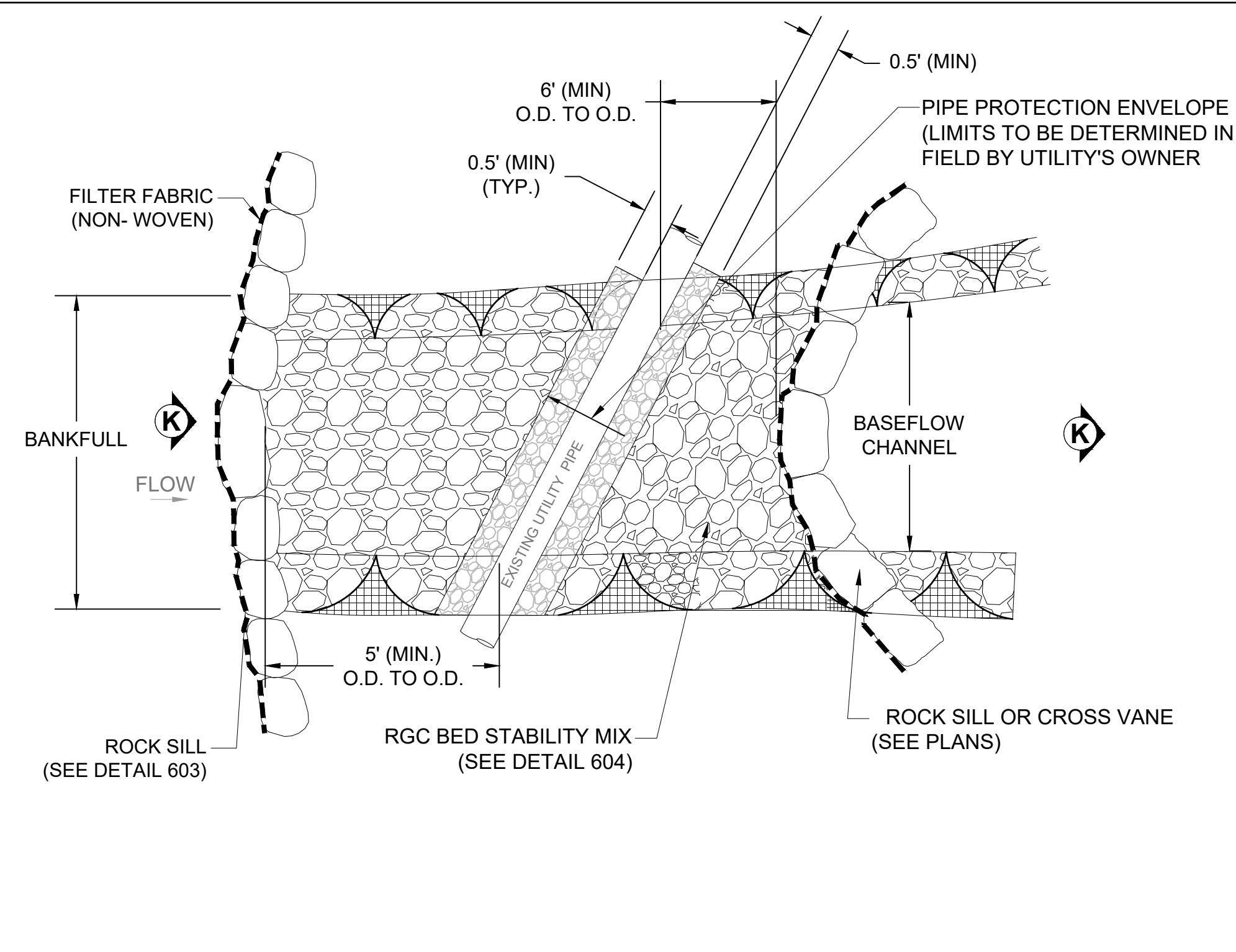
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SEWER INFRASTRUCTURE SECTION

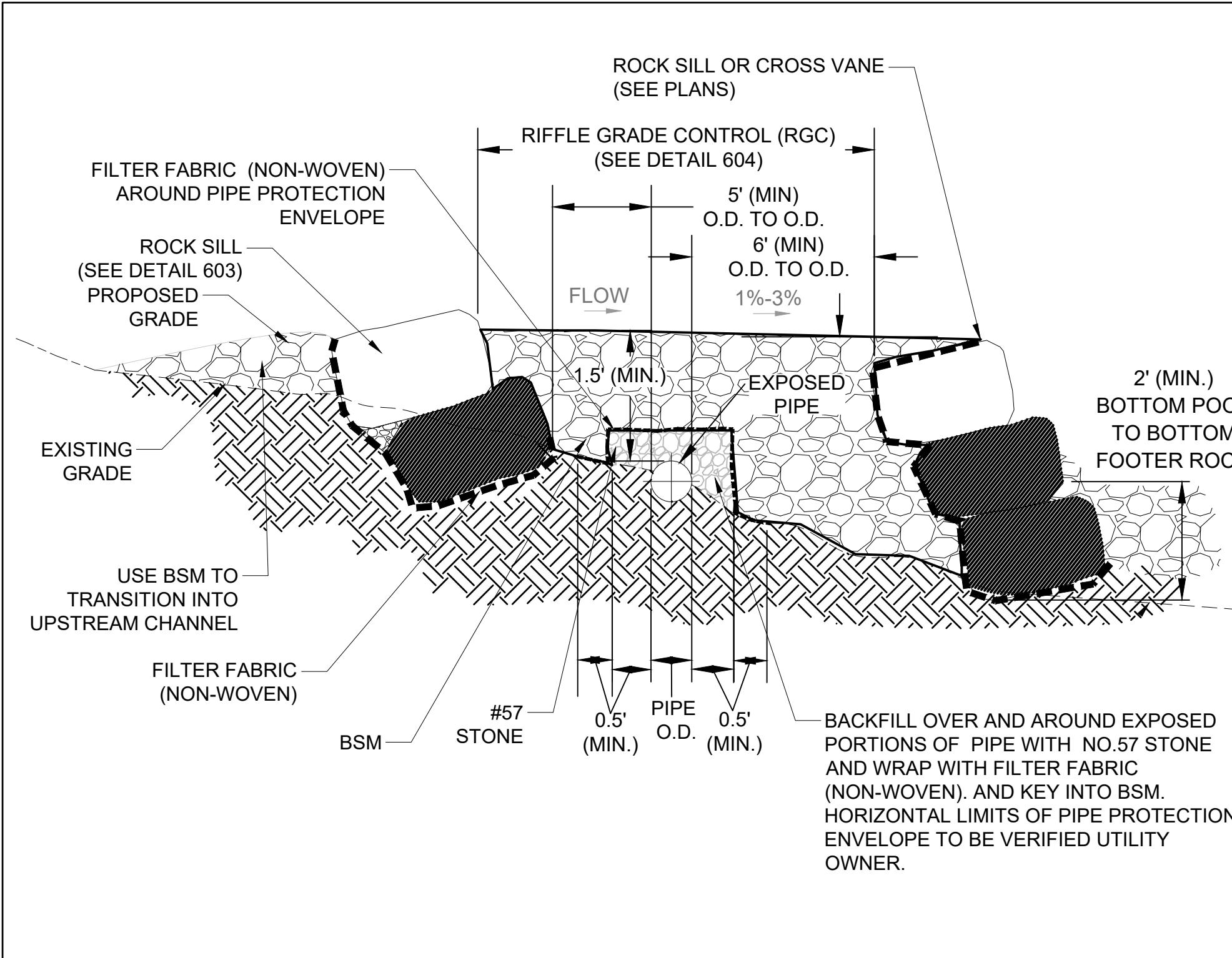
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IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
DE-02 - STREAM CONSTRUCTION DETAILS

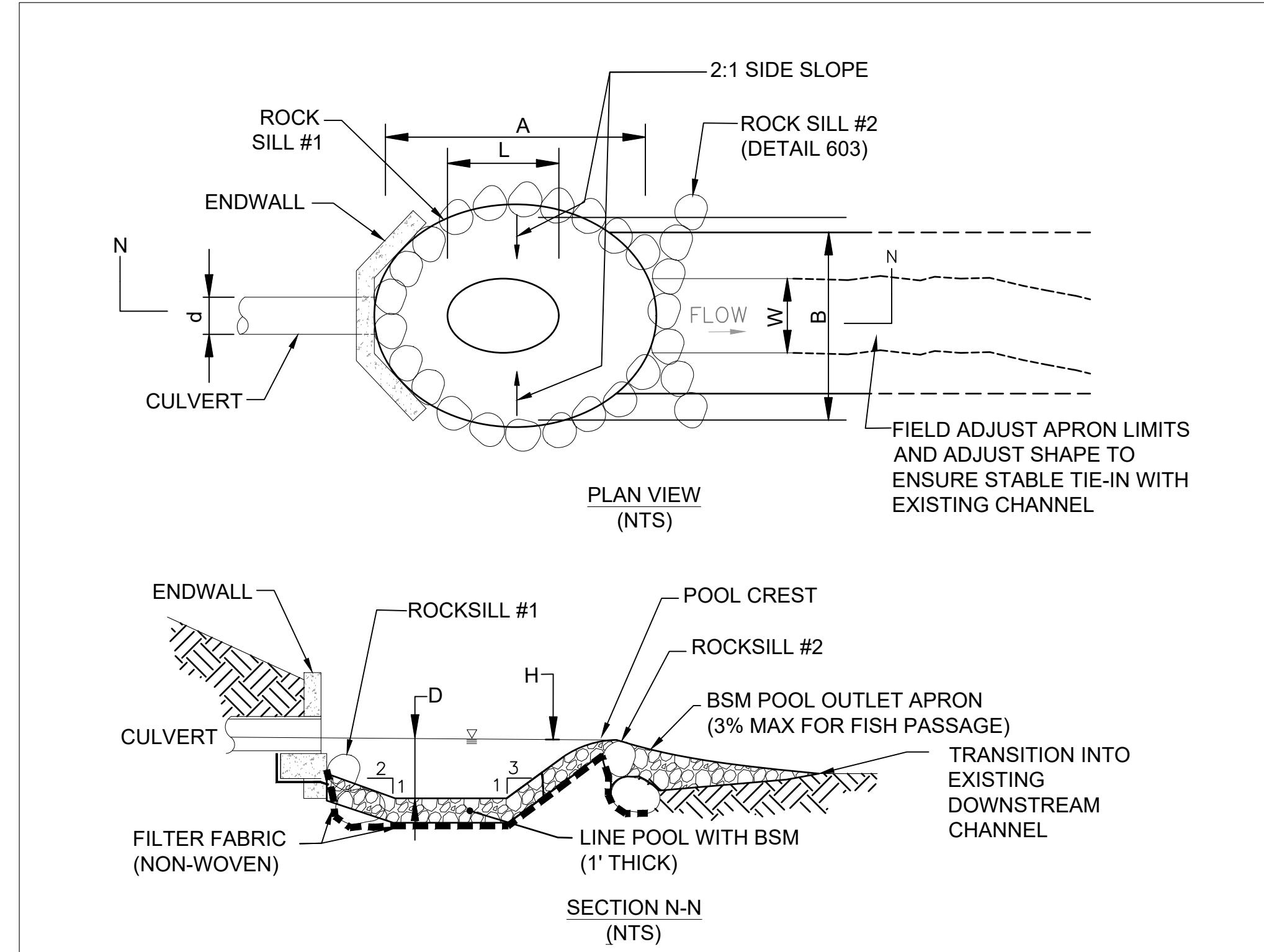
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NO 27  
200'S 212NW03 & 213NW03  
OF 44



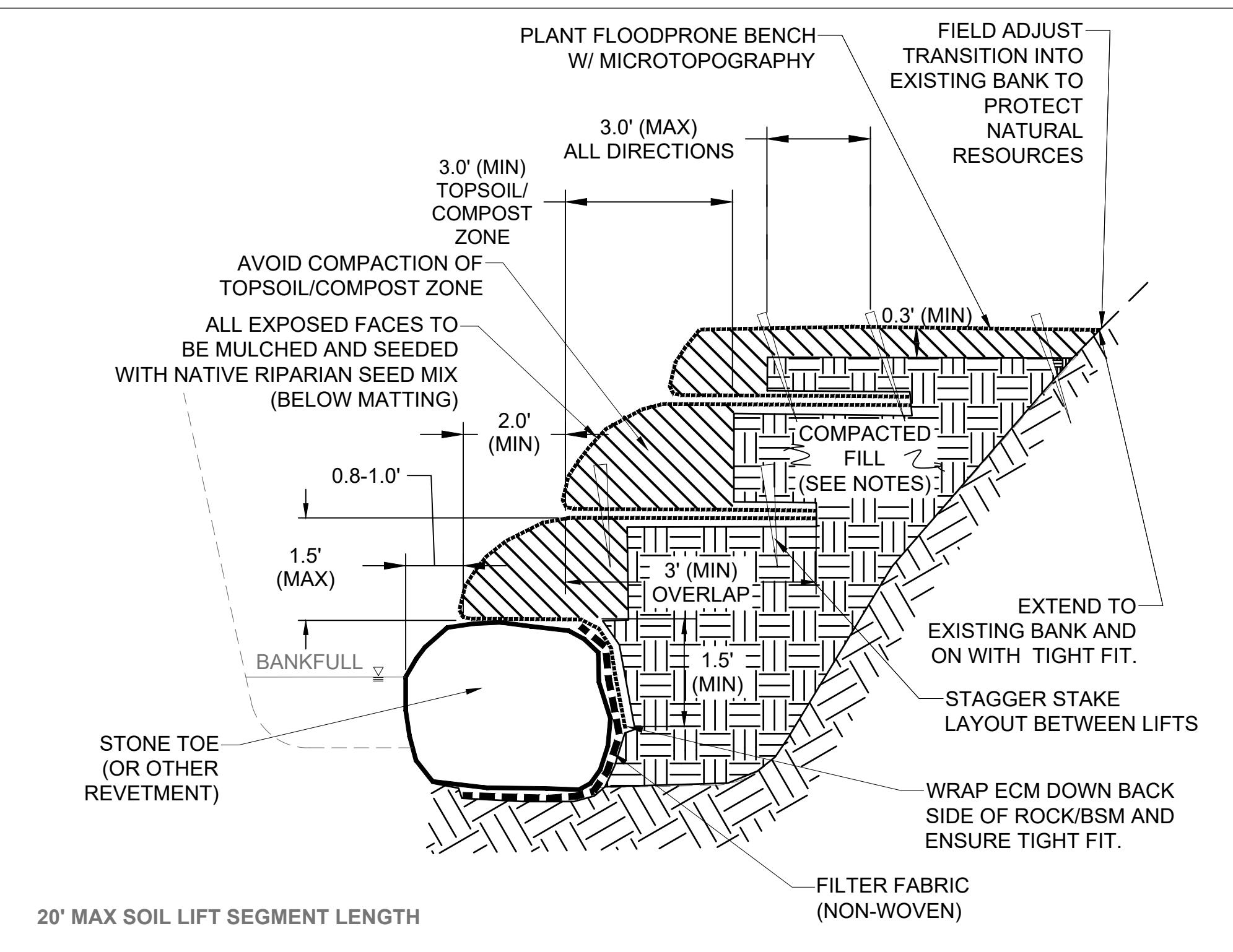
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UTILITY PIPE PROTECTION (UPP) DETAIL (PLAN VIEW)  
PAGE 1 OF 3 (NTS)



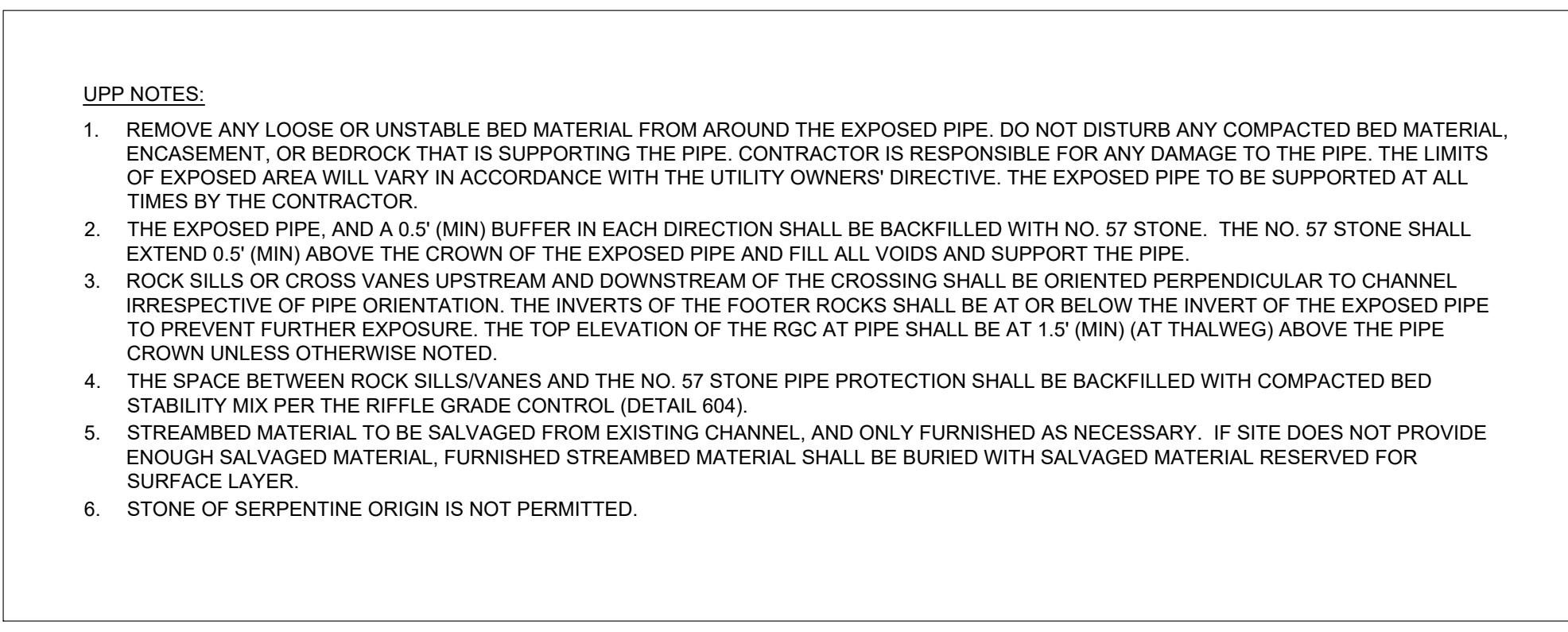
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UTILITY PIPE PROTECTION (UPP) DETAIL (SECTION K-K)  
PAGE 2 OF 3 (NTS)



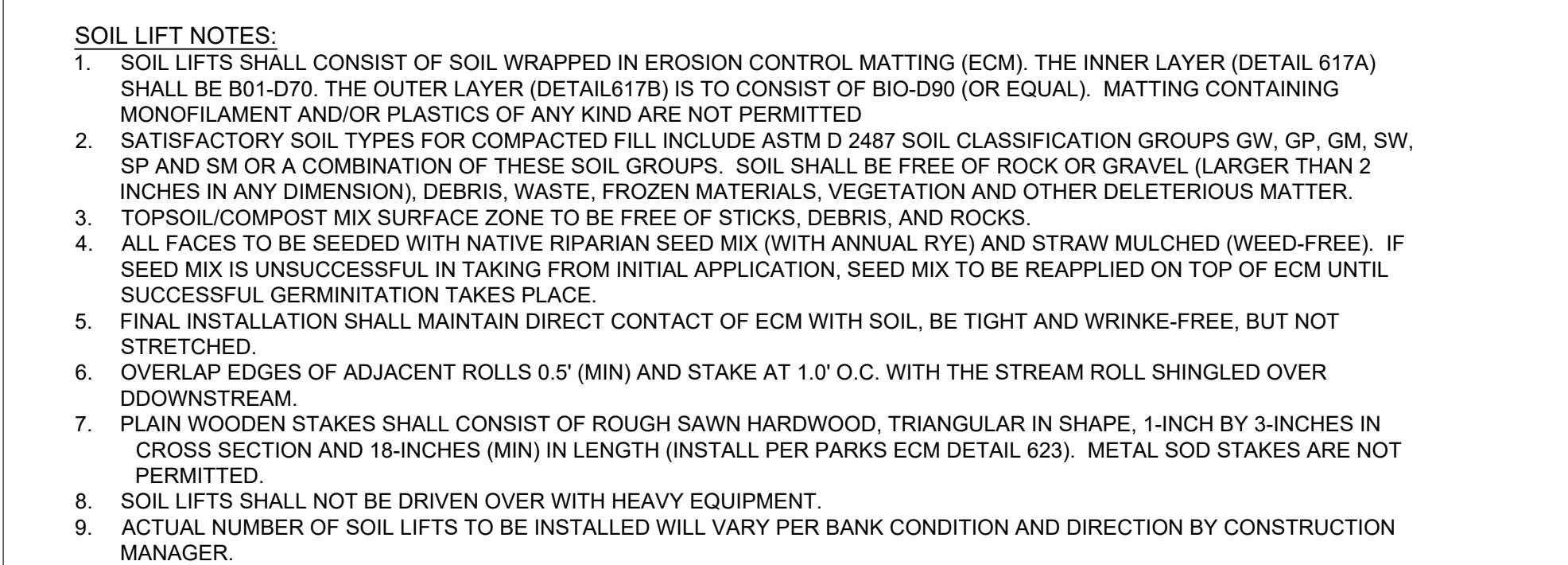
629  
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PLUNGE POOL (PP) DETAIL  
PAGE 1 OF 2



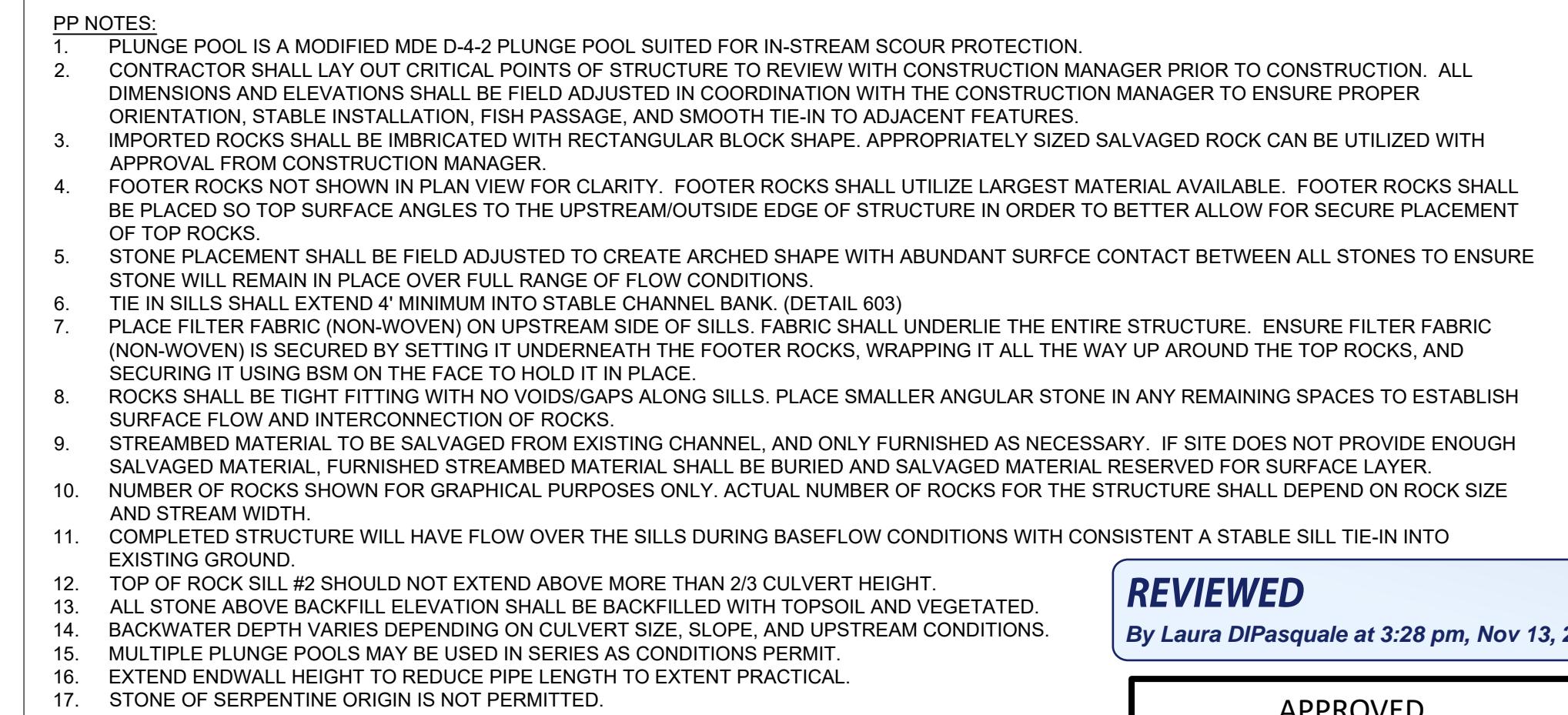
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SINGLE LAYER SOIL LIFT (SLL) DETAIL (TYPICAL CROSS SECTION)  
PAGE 1 OF 2 (NTS)



607  
3  
UTILITY PIPE PROTECTION (UPP) DETAIL (TABLE AND NOTES)  
PAGE 3 OF 3



617A  
2  
SOIL LIFT AND ECM PLANTING DETAIL (NOTES)  
PAGE 2 OF 2 (NTS)



REVIEWED

By Laura DiPasquale at 3:28 pm, Nov 13, 2025

629  
2  
PLUNGE POOL (PP) DETAIL (TABLE AND NOTES)  
PAGE 2 OF 2

SIZE VARIABLE:	DESCRIPTION:	PP-1	PP-2
d	FT	1.25	1.75
A	POOL TOP LENGTH (FT)	7.50	10.50
B	POOL TOP WIDTH (FT)	6.25	8.75
L	POOL BOTTOM LENGTH (FT)	3.75	5.25
W	POOL BOTTOM WIDTH (FT)	2.50	3.50
D	POOL DEPTH (FT)	0.625	0.875
H	BACKWATER (ABOVE CULVERT INVERT)	0.00	0.00
R	ROCKSILL #2 HEIGHT ABOVE INVERT (FT)	0.00	0.00
	SIDE SLOPE Y	3.0	3.0

APPROVED  
Montgomery County  
Historic Preservation Commission

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*Karen Boulit*

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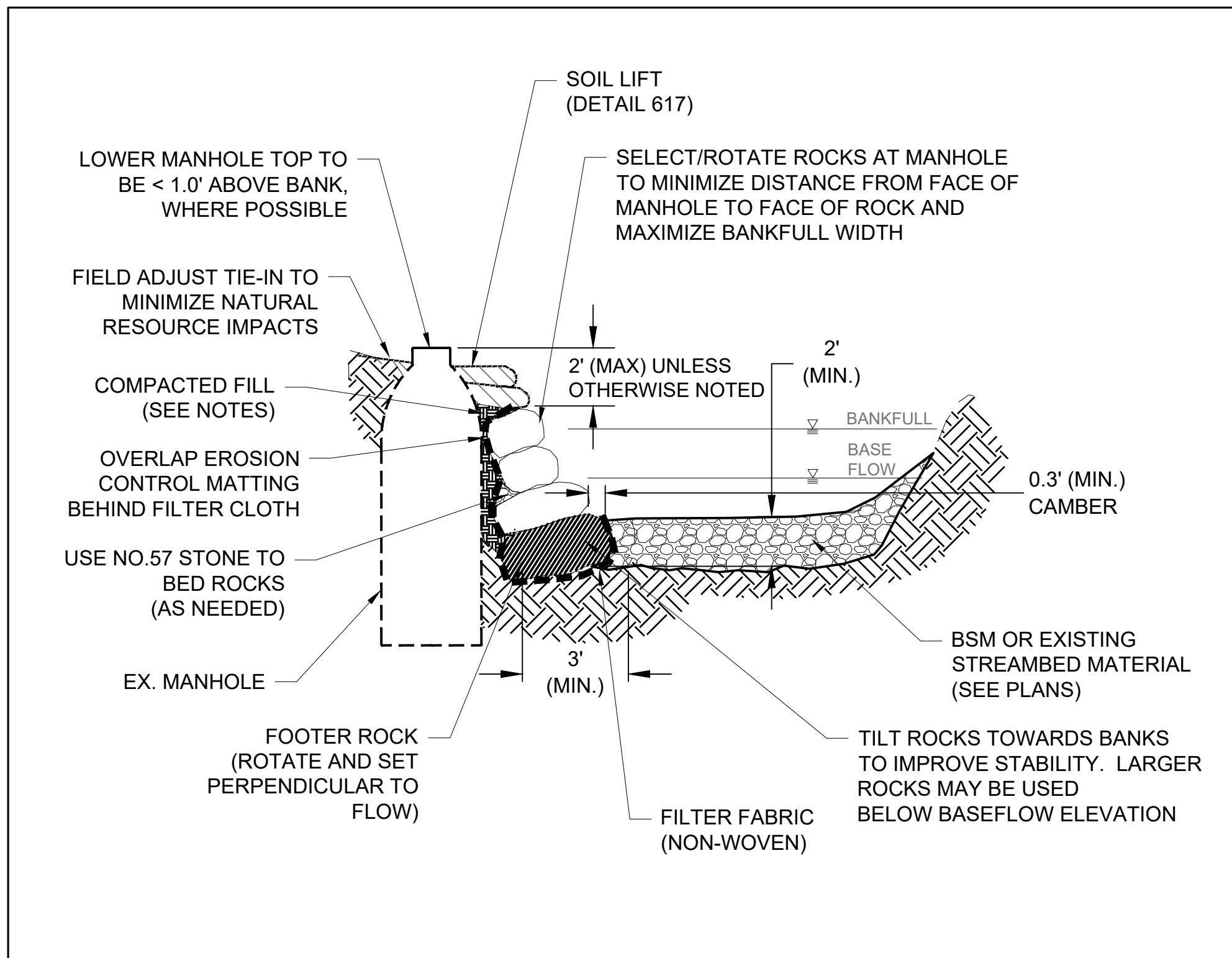
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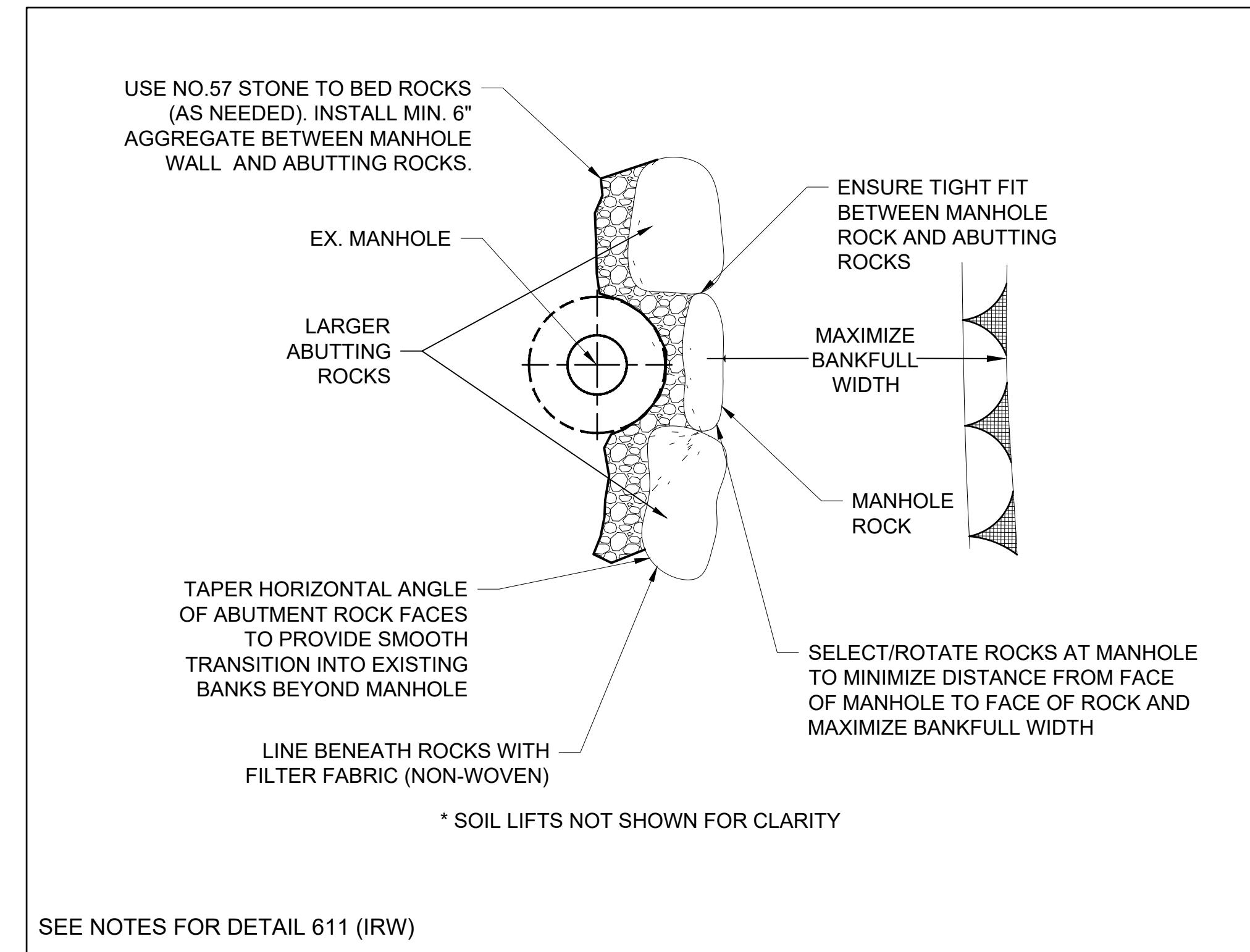
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OF 44

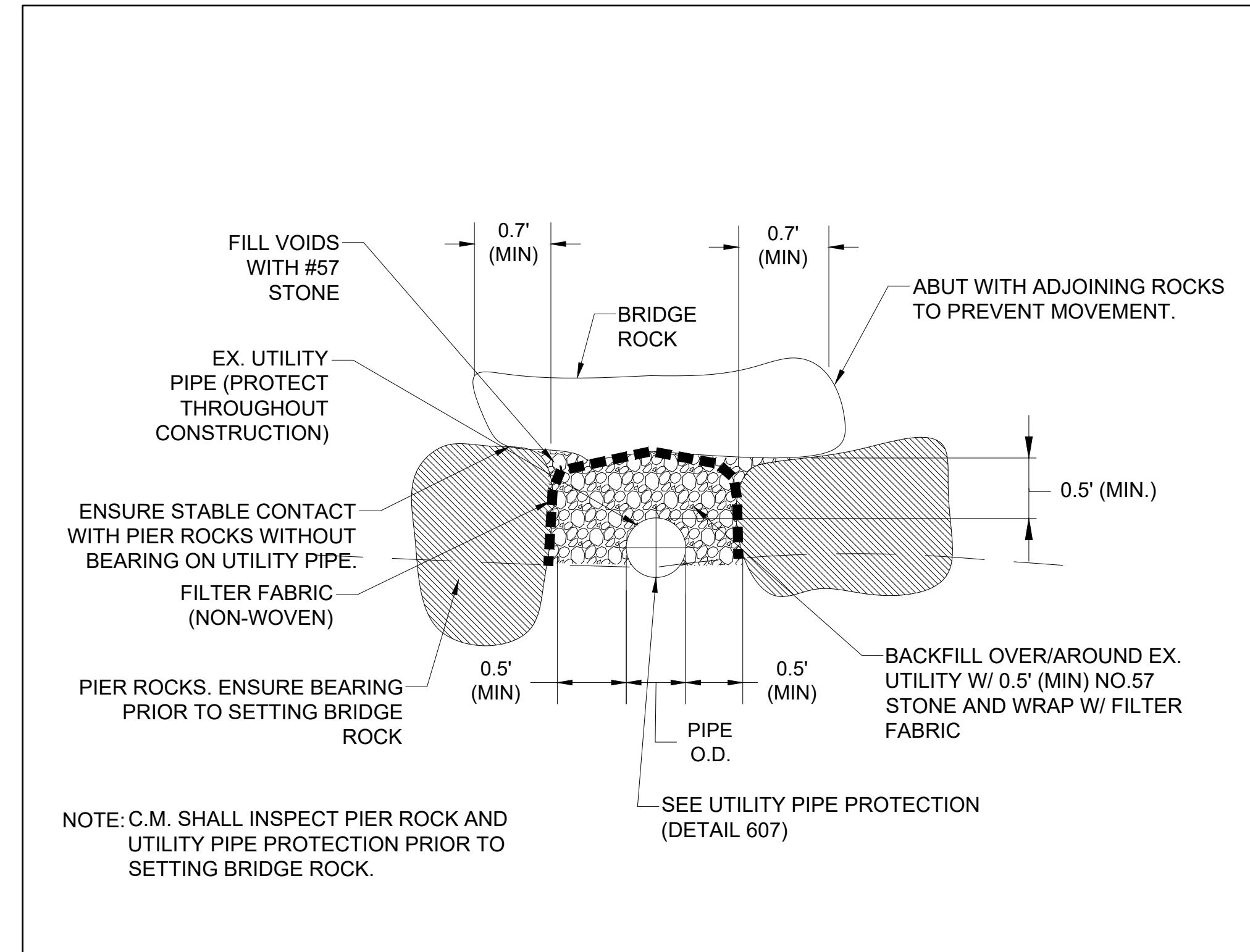
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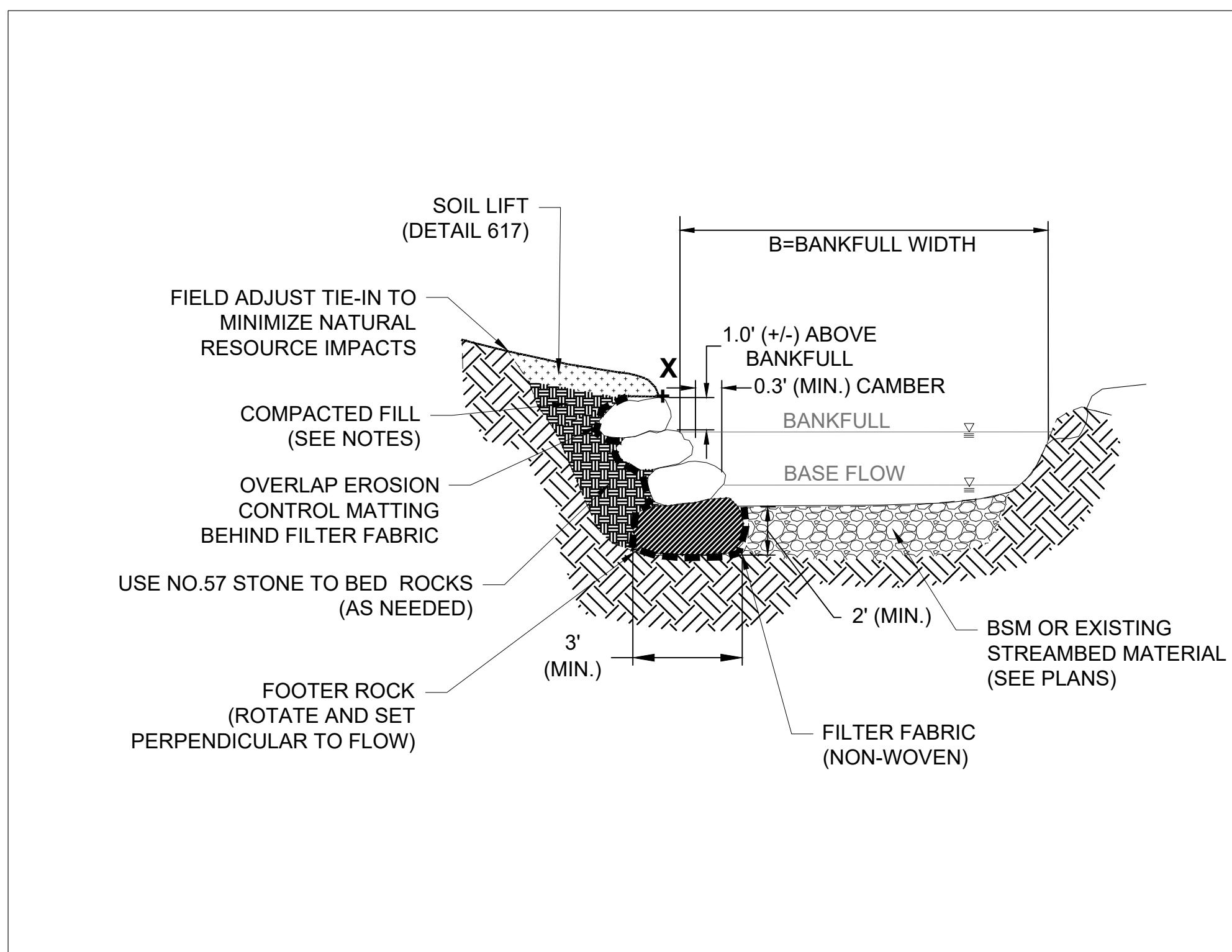
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IMBRICATED RIPRAP WALL AT MANHOLE (IRWM) DETAIL (TYPICAL SECTION)  
PAGE 1 OF 2 (NTS)



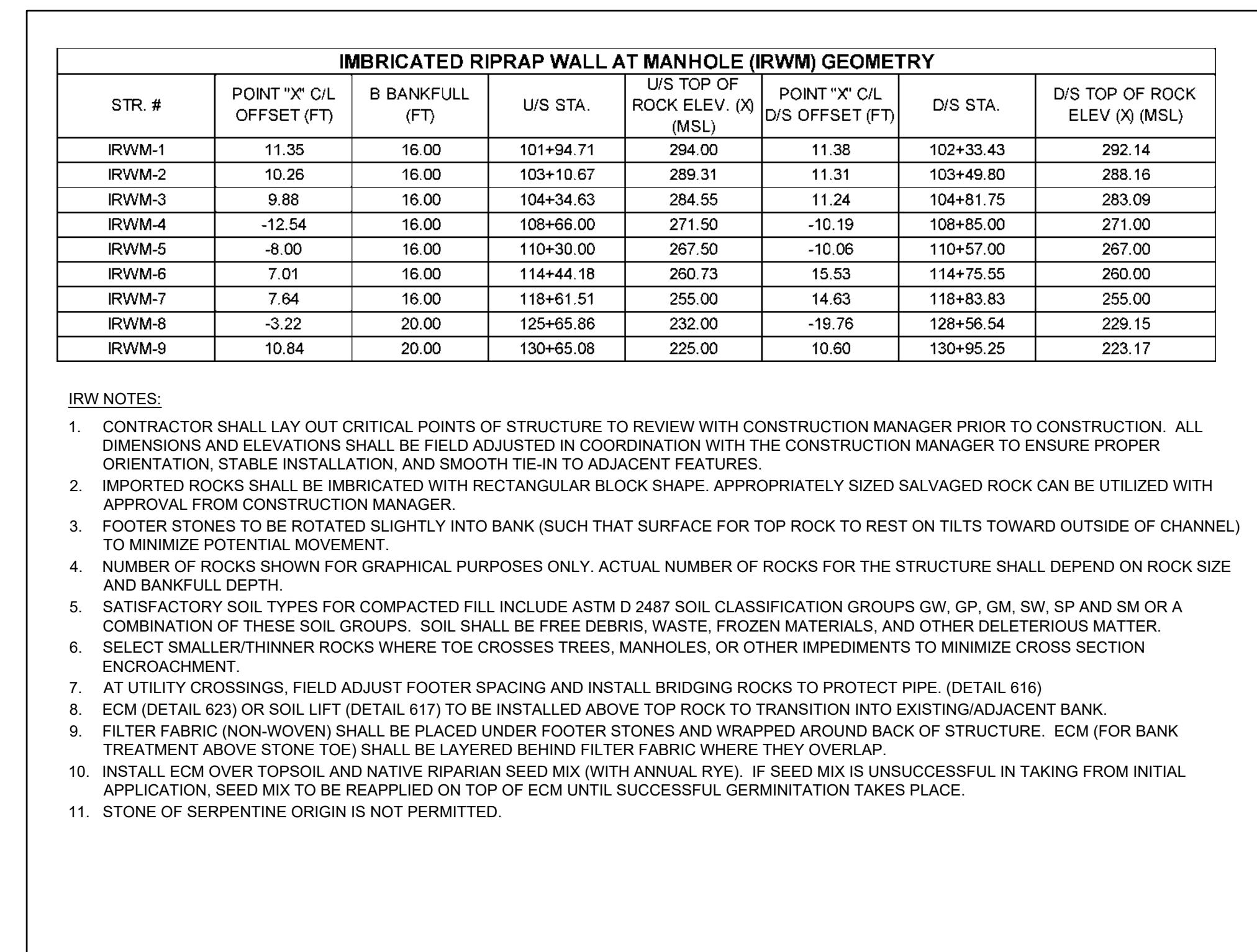
611A  
2  
IMBRICATED RIPRAP WALL AT MANHOLE (IRWM) DETAIL (NOTES)  
PAGE 2 OF 2 (NTS)



616  
1  
STONE PIPE BRIDGE (SPB) DETAIL  
PAGE 1 OF 1 (NTS)



611  
1  
IMBRICATED RIPRAP WALL (IRW) DETAIL (TYPICAL SECTION)  
PAGE 1 OF 2 (NTS)



611  
2  
IMBRICATED RIPRAP WALL (IRW) DETAIL (TABLE AND NOTES)  
PAGE 2 OF 2 (NTS)

IMBRICATED RIPRAP WALL (IRW) GEOMETRY							
STR. #	POINT "X" C/L OFFSET (FT)	B BANKFULL (FT)	U/S STA.	U/S TOP OF ROCK ELEV. (X) (MSL)	POINT "X" C/L D/S OFFSET (FT)	D/S STA.	D/S TOP OF ROCK ELEV (X) (MSL)
IRW-1	33.17	16.00	106+83.05	278.00	17.95	108+94.49	271.24

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SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
DE-04 - STREAM CONSTRUCTION DETAILS

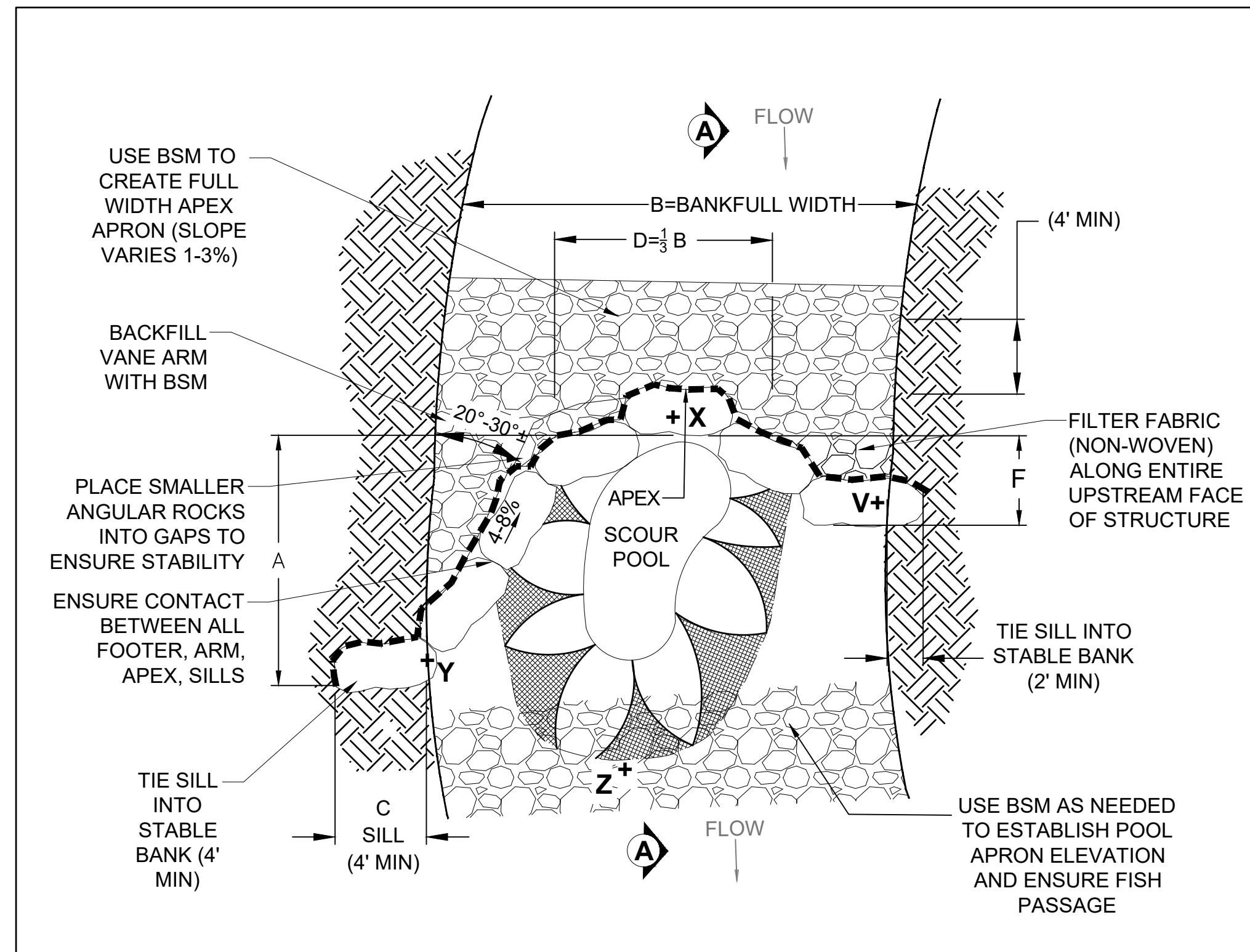
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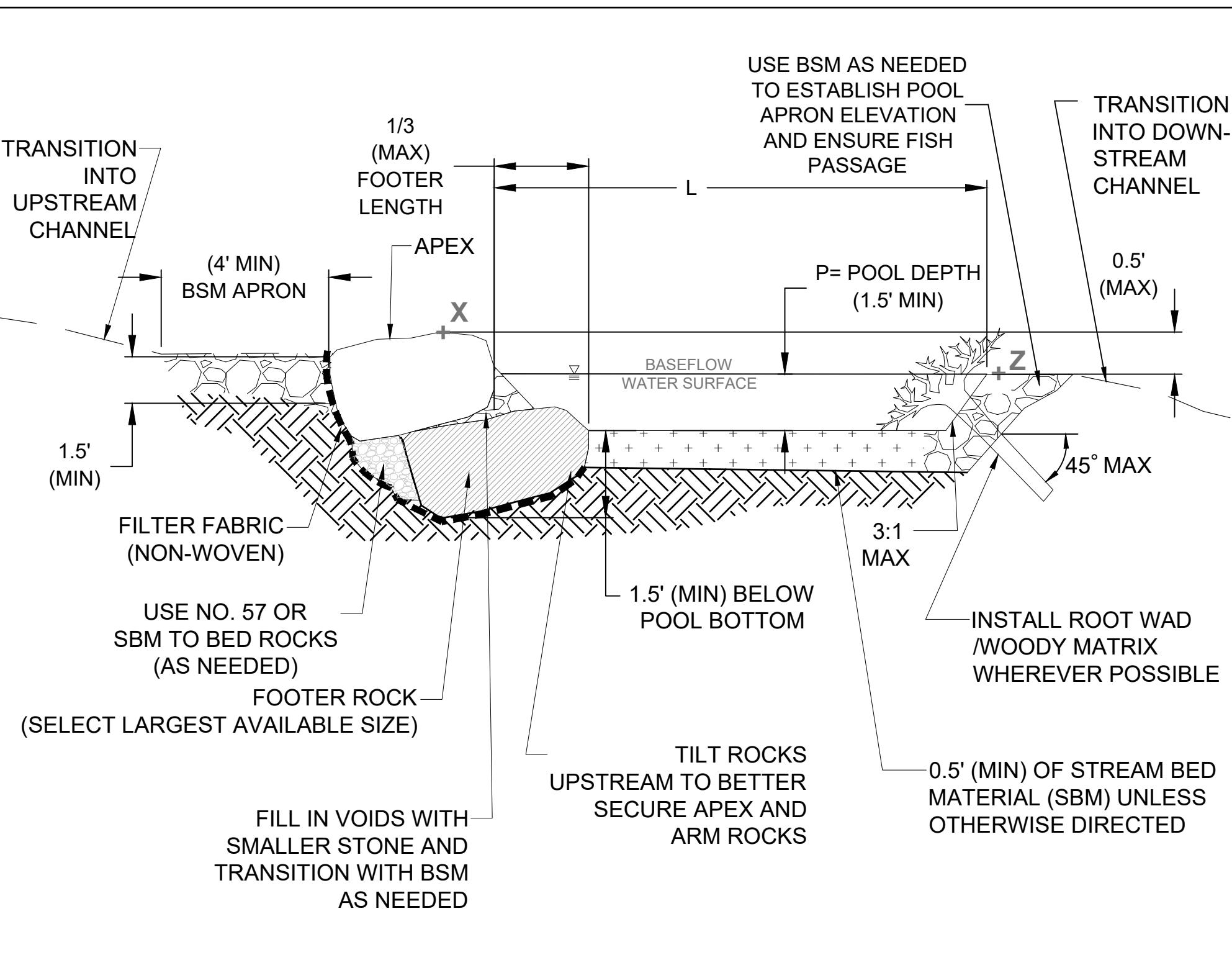
WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE PDD PROJECT MANAGER

JOB NUMBER : CICKCNCRMH7360A22  
200'S 212NW03 & 213NW03  
NO 29  
OF 44



601  
1 J-HOOK (JH) VANE DETAIL (PLAN VIEW)  
PAGE 1 OF 3 (NTS)

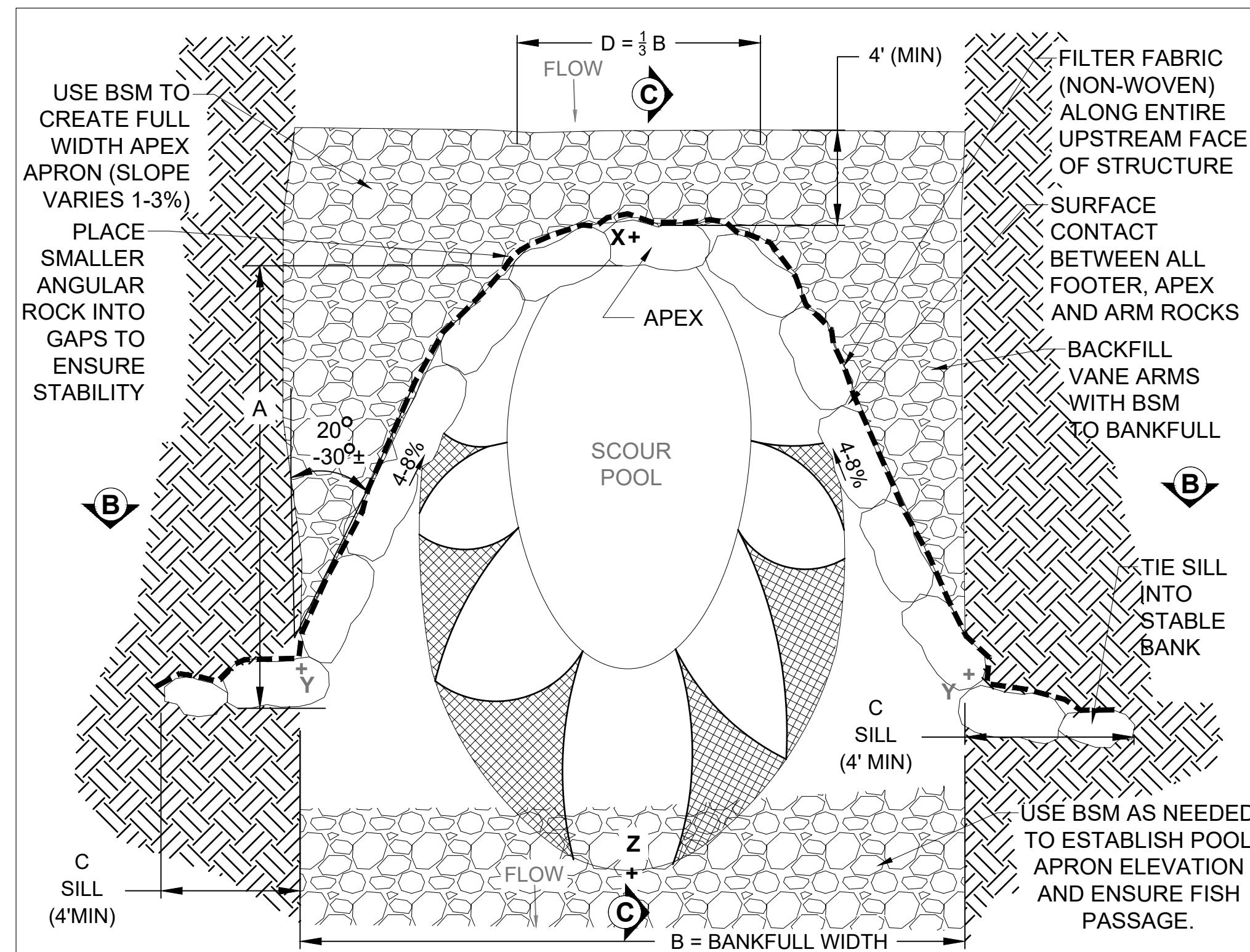


601  
2 J-HOOK (JH) VANE DETAIL SECTION A-A (PROFILE VIEW)  
PAGE 2 OF 3 (NTS)

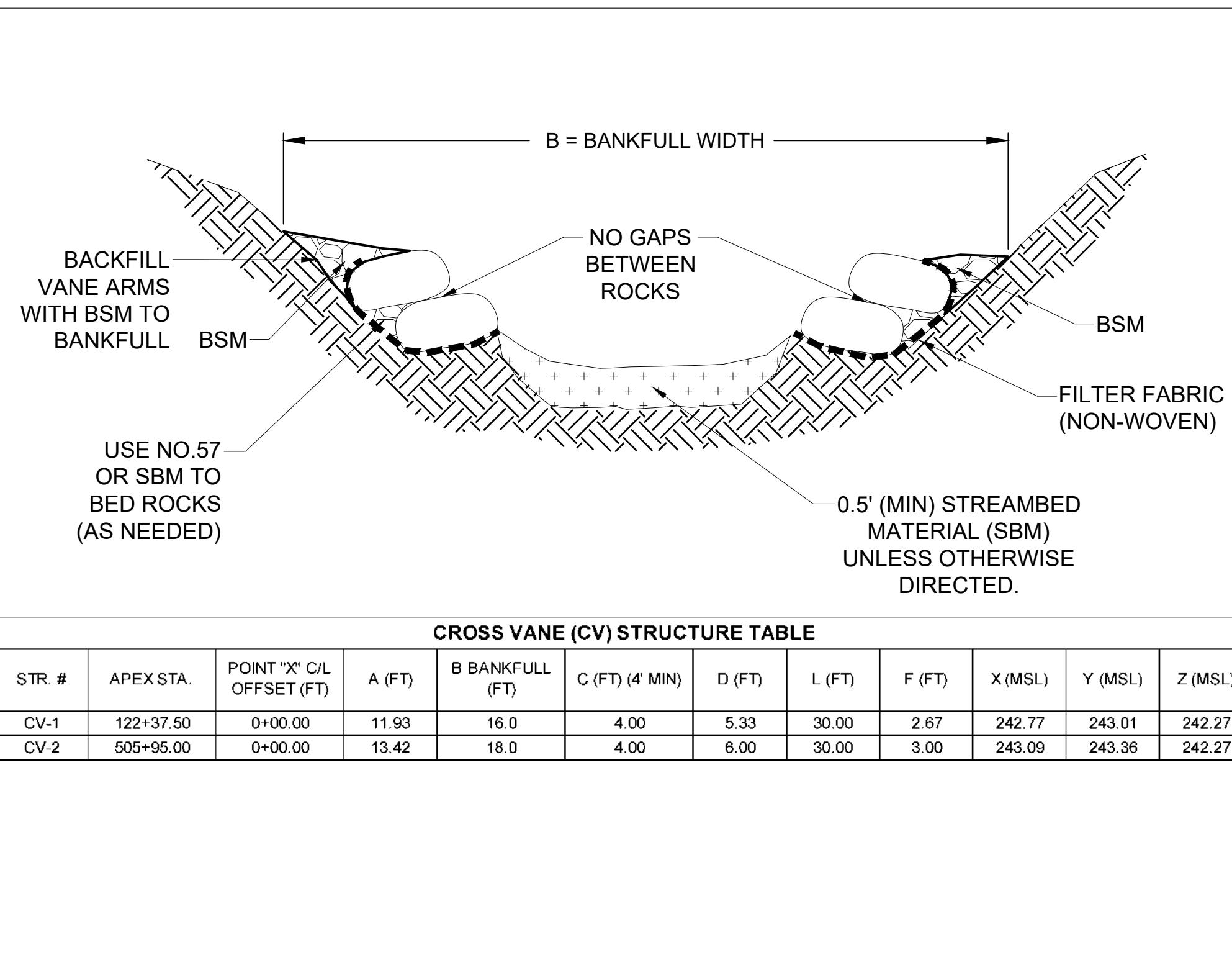
J-HOOK (JH) VANE GEOMETRY												
STR. #	APEX STA.	POINT "X" C/L OFFSET (FT)	A (FT)	B BANKFULL (FT)	C (FT) 4' MIN	D (FT)	L (FT)	F (FT)	P (FT)	X (MSL)	Y (MSL)	Z (MSL)
JH-1	101+78.43	0.00	12.00	16.00	4.00	5.33	44.0	2.67	1.5	290.76	292.26	290.26
JH-2	105+45.00	0.00	12.00	16.00	4.00	5.33	36.0	2.67	1.5	278.52	280.02	277.77
JH-3	106+93.00	0.00	12.00	16.00	4.00	5.33	35.5	2.67	1.5	274.21	275.71	273.21
JH-4	107+70.00	0.00	12.00	16.00	4.00	5.33	57.7	2.67	1.5	272.17	273.67	272.17
JH-5	110+95.00	0.00	12.00	16.00	4.00	5.33	34.0	2.67	1.5	264.50	266.00	264.00
JH-6	115+17.50	0.00	12.00	16.00	4.00	5.33	42.0	2.67	1.5	255.79	257.29	255.79
JH-7	129+56.72	0.00	12.00	16.00	4.00	5.33	43.0	2.67	1.5	223.22	225.47	222.72
JH-8	130+56.72	0.00	15.00	20.00	4.00	6.67	52.0	3.33	1.5	221.00	223.25	220.50
JH-9	501+88.00	0.00	15.00	20.00	4.00	6.67	47.0	3.33	1.5	246.32	250.57	248.24
JH-10	503+60.00	0.00	13.00	18.00	4.00	6.00	50.0	3.00	1.5	245.50	246.50	245.00
JH-11	504+25.00	0.00	13.00	18.00	4.00	6.00	56.0	3.00	1.5	244.59	245.59	244.59
JH-12	505+23.50	0.00	13.00	18.00	4.00	6.00	44.0	3.00	1.5	244.00	245.00	243.83

JH NOTES:

- CONTRACTOR SHALL LAY OUT CRITICAL POINTS OF STRUCTURE TO REVIEW WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. ALL DIMENSIONS AND ELEVATIONS SHALL BE FIELD ADJUSTED IN COORDINATION WITH THE CONSTRUCTION MANAGER TO ENSURE PROPER ORIENTATION, STABLE INSTALLATION, FISH PASSAGE, AND SMOOTH IN-TO ADJACENT FEATURES.
- IMPORTED ROCKS SHALL BE IMBRICATED WITH RECTANGULAR BLOCK SHAPE. APPROPRIATELY SIZED SALVAGED ROCK CAN BE UTILIZED WITH APPROVAL FROM CONSTRUCTION MANAGER.
- ELEVATION "Y" SHALL BE APPROXIMATELY BANKFULL DEPTH ABOVE ELEVATION "X". IN ALL CASES, ELEVATION "Y" SHALL BE AT LEAST 0.5' ABOVE ELEVATION "X" (SEE STRUCTURE TABLE FOR ACTUAL ELEVATION DIFFERENCE).
- STATION REFERENCE POINT "X" IS LOCATED AT CHANNEL CENTERLINE UNLESS OTHERWISE SPECIFIED ON PLANS.
- FOOTER ROCKS NOT SHOWN IN PLAN VIEW FOR CLARITY. FOOTER ROCKS SHALL UTILIZE LARGEST MATERIAL AVAILABLE. FOOTER ROCKS SHALL BE PLACED SO TOP SURFACE ANGLES TO THE UPSTREAM/OUTSIDE EDGE OF STRUCTURE IN ORDER TO BETTER ALLOW FOR SECURE PLACEMENT OF TOP ROCKS.
- STONE PLACEMENT SHALL BE FIELD ADJUSTED TO CREATE ARCHED SHAPE WITH ABUNDANT SURFACE CONTACT BETWEEN ALL STONES TO ENSURE STONE WILL REMAIN IN PLACE OVER FULL RANGE OF FLOW CONDITIONS.
- TIE IN SILLS SHALL EXTEND 4' MINIMUM INTO STABLE CHANNEL WIDTH.
- PLACE FILTER FABRIC (NON-WOVEN) ON UPSTREAM SIDE OF VANE. FABRIC SHALL COVER THE UPSTREAM FACE OF THE ENTIRE STRUCTURE. ENSURE FILTER FABRIC (NON-WOVEN) IS SECURED BY SETTING IT UNDERNEATH THE FOOTER ROCKS, WRAPPING IT ALL THE WAY UP AROUND THE TOP ROCKS, AND SECURING IT USING BSM ON THE UPSTREAM FACE TO HOLD IT IN PLACE.
- ROCKS SHALL BE TIGHT FITTING WITH NO VOIDS/GAPS ALONG APEX AND VANE ARMS. PLACE SMALLER ANGULAR STONE IN ANY REMAINING SPACES TO ESTABLISH SURFACE FLOW AND INTERCONNECTION OF ROCKS.
- STREAMBED MATERIAL TO BE SALVAGED FROM EXISTING CHANNEL, AND ONLY FURNISHED AS NECESSARY. IF SITE DOES NOT PROVIDE ENOUGH SALVAGED MATERIAL, FURNISHED STREAMBED MATERIAL SHALL BE BURIED WITH SALVAGED MATERIAL RESERVED FOR SURFACE LAYER.
- NUMBER OF VANE ROCKS SHOWN FOR GRAPHICAL PURPOSES ONLY. ACTUAL NUMBER OF ROCKS FOR THE STRUCTURE SHALL DEPEND ON ROCK SIZE AND STREAM WIDTH.
- BACKFILL UPSTREAM SIDES OF APEX AND VANE ARMS WITH BSM.
- NO SINGLE DROP FROM STRUCTURE APEX TO THE NEXT STRUCTURE APEX AND/OR RIFFLE CREST SHALL EXCEED 0.5'. ANY EXCEPTIONS MUST BE APPROVED BY CONSTRUCTION MANAGER.
- COMPLETED STRUCTURE WILL HAVE FLOW OVER THE APEX DURING BASEFLOW CONDITIONS WITH CONSISTENT ARM SLOPES UP FROM THE APEX TO A STABLE SILL TIE-IN AT BANKFULL INTO EXISTING GROUND.
- STONE OF SERPENTINE ORIGIN IS NOT PERMITTED.



602  
1 CROSS VANE (CV) DETAIL (PLAN VIEW)  
PAGE 1 OF 4 (NTS)



602  
2 CROSS VANE (CV) DETAIL SECTION B-B  
PAGE 2 OF 4 (NTS)

601  
3 J-HOOK (JH) VANE DETAIL (STRUCTURE TABLE AND NOTES)  
PAGE 3 of 3

REVIEWED  
By Laura DiPasquale at 3:28 pm, Nov 13, 2025

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Historic Preservation Commission

*Karen Berlin*

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SEWER INFRASTRUCTURE SECTION

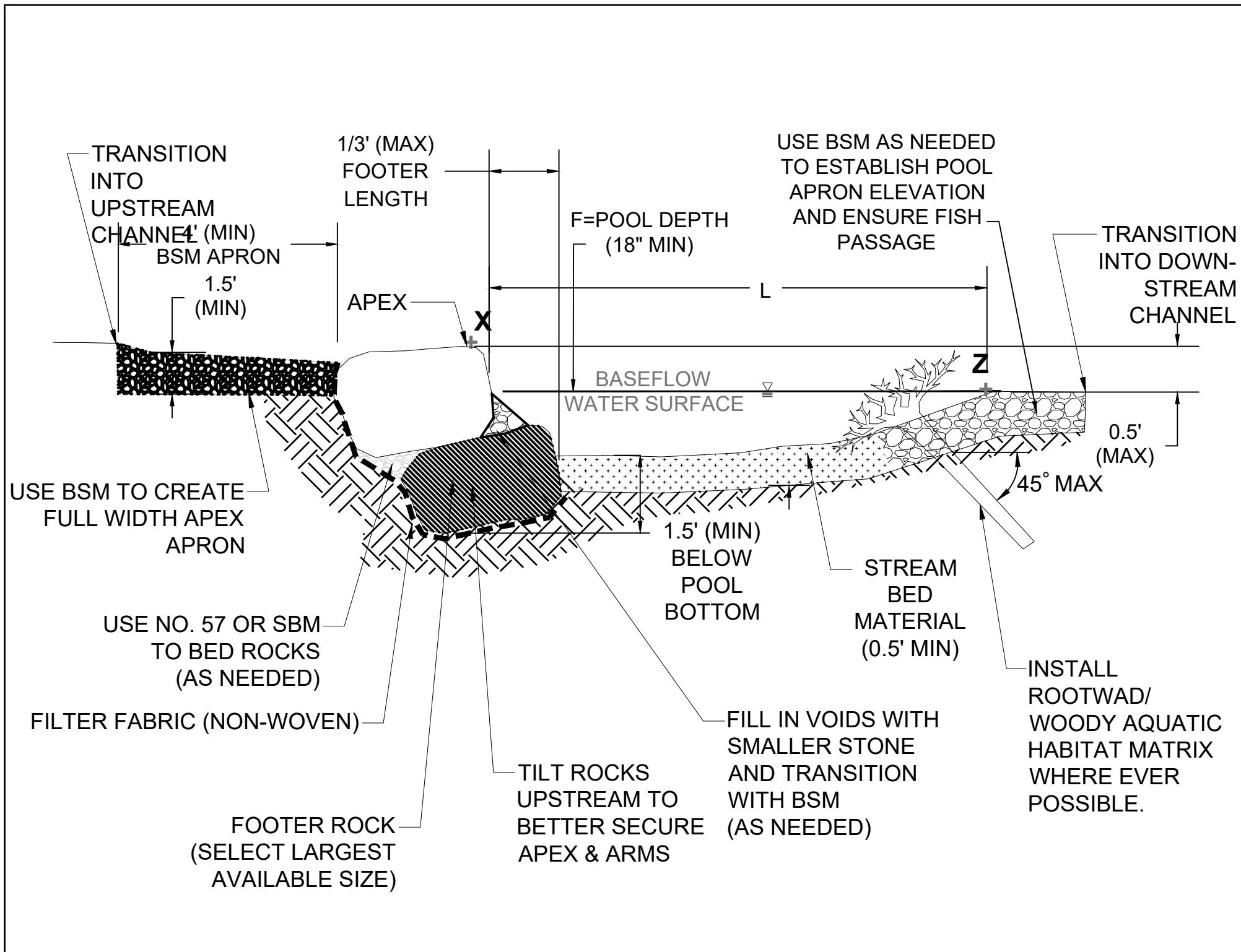
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SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
DE-05 - STREAM CONSTRUCTION DETAILS

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PDD PROJECT MANAGER  
JOB NUMBER : CICKCNCRMH7360A22  
NO 30  
200'S 212NW03 & 213NW03  
OF 44

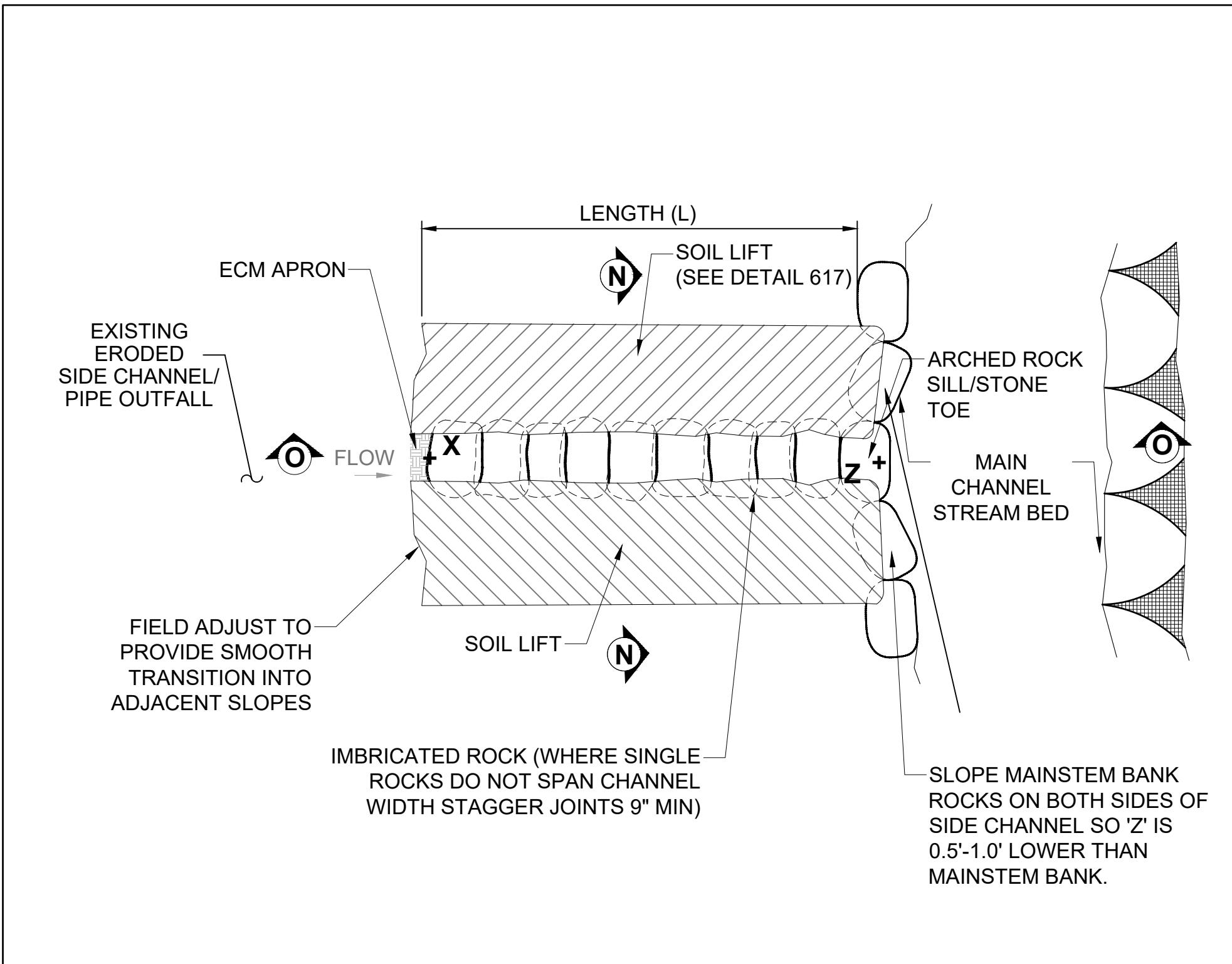
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ENGINEER:  
Michael Baker  
INTERNATIONAL  
MICHAEL BAKER INTERNATIONAL, LLC.  
1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014  
Phone: (410) 689-3400

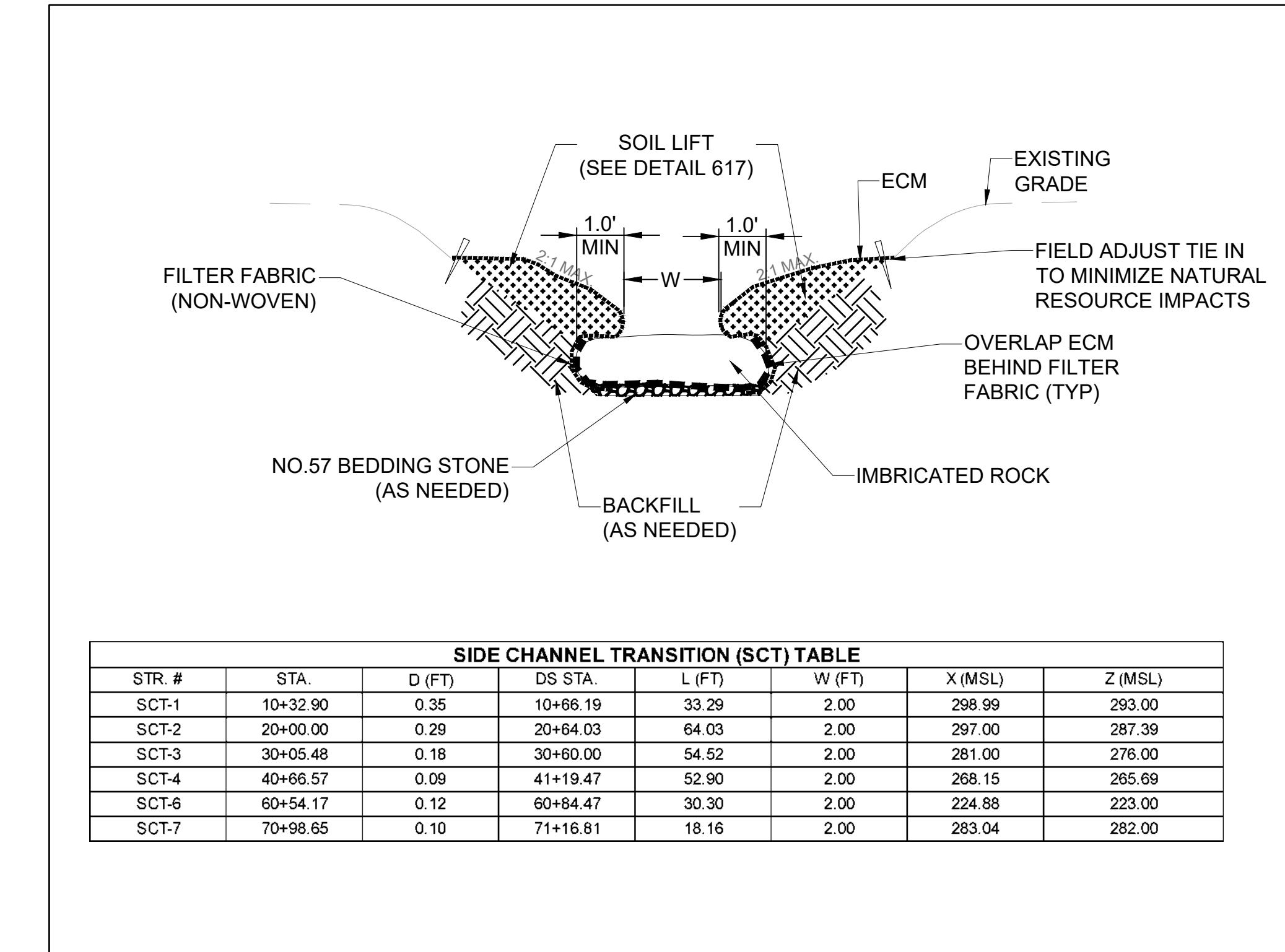
MAY, 2025  
VERIFICATION  
DATE  
PDD PROJECT MANAGER  
JOB NUMBER : CICKCNCRMH7360A22  
NO 30  
200'S 212NW03 & 213NW03  
OF 44



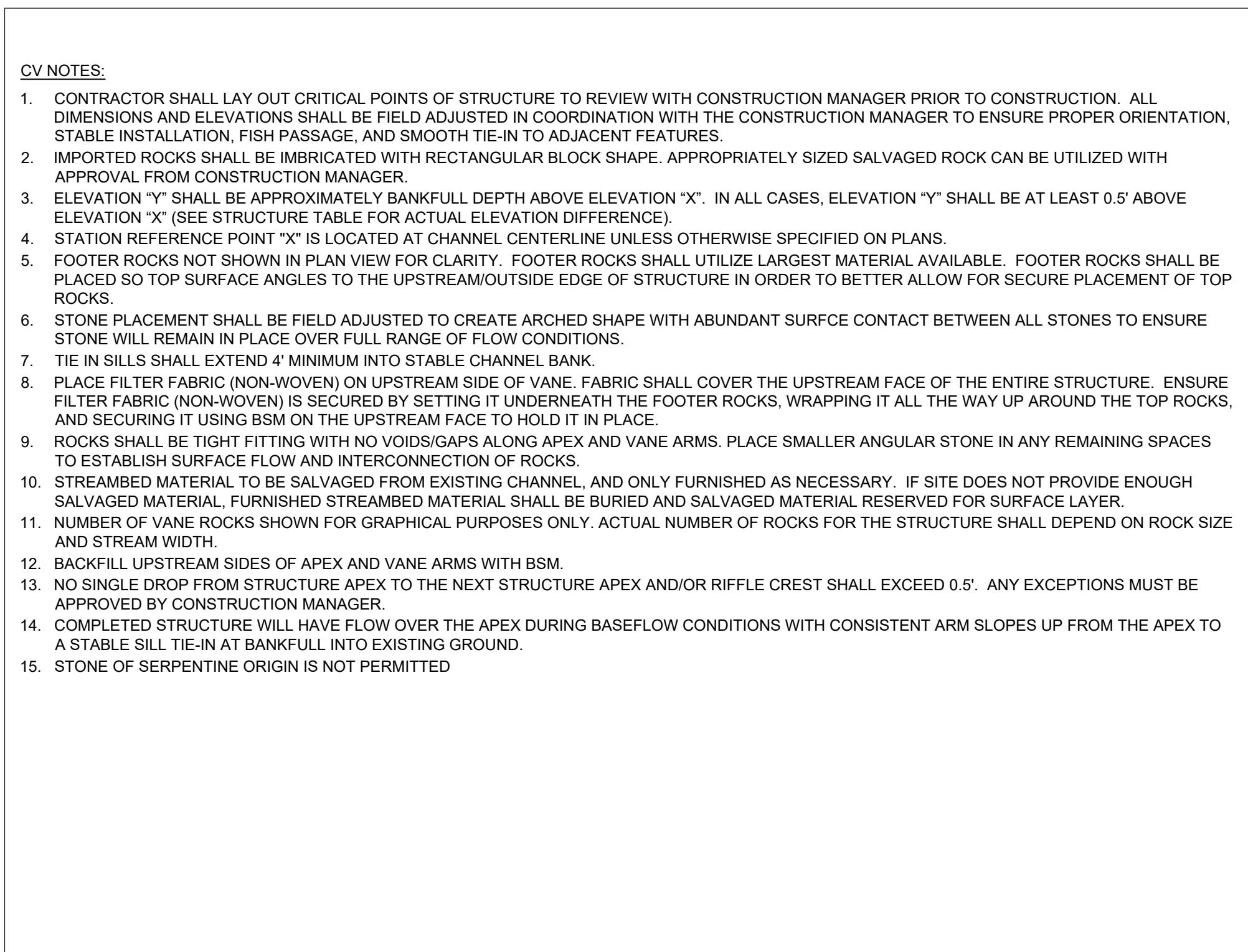
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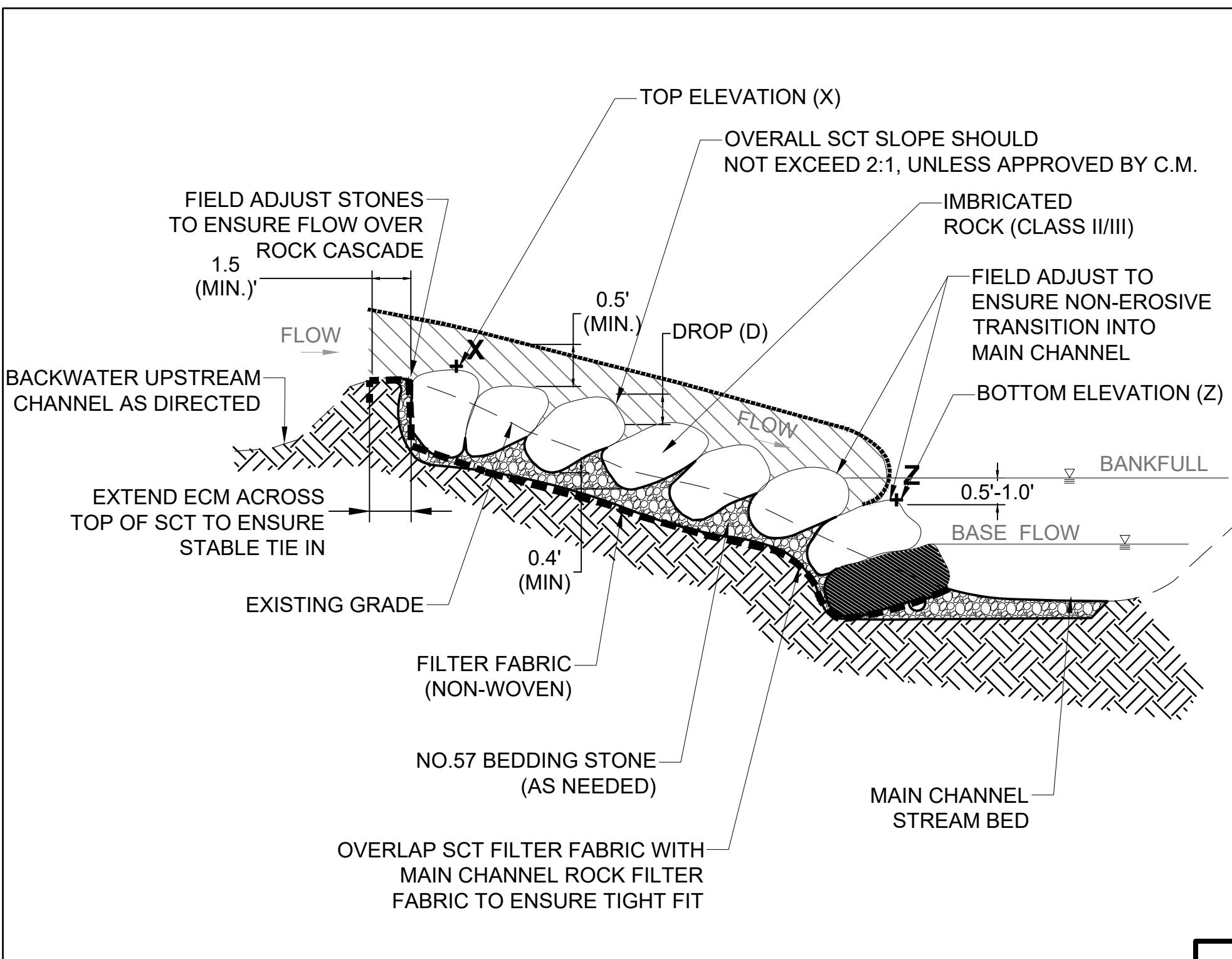
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1 SIDE CHANNEL TRANSITION (SCT) DETAIL (PLAN VIEW)  
PAGE 1 OF 4 (NTS)



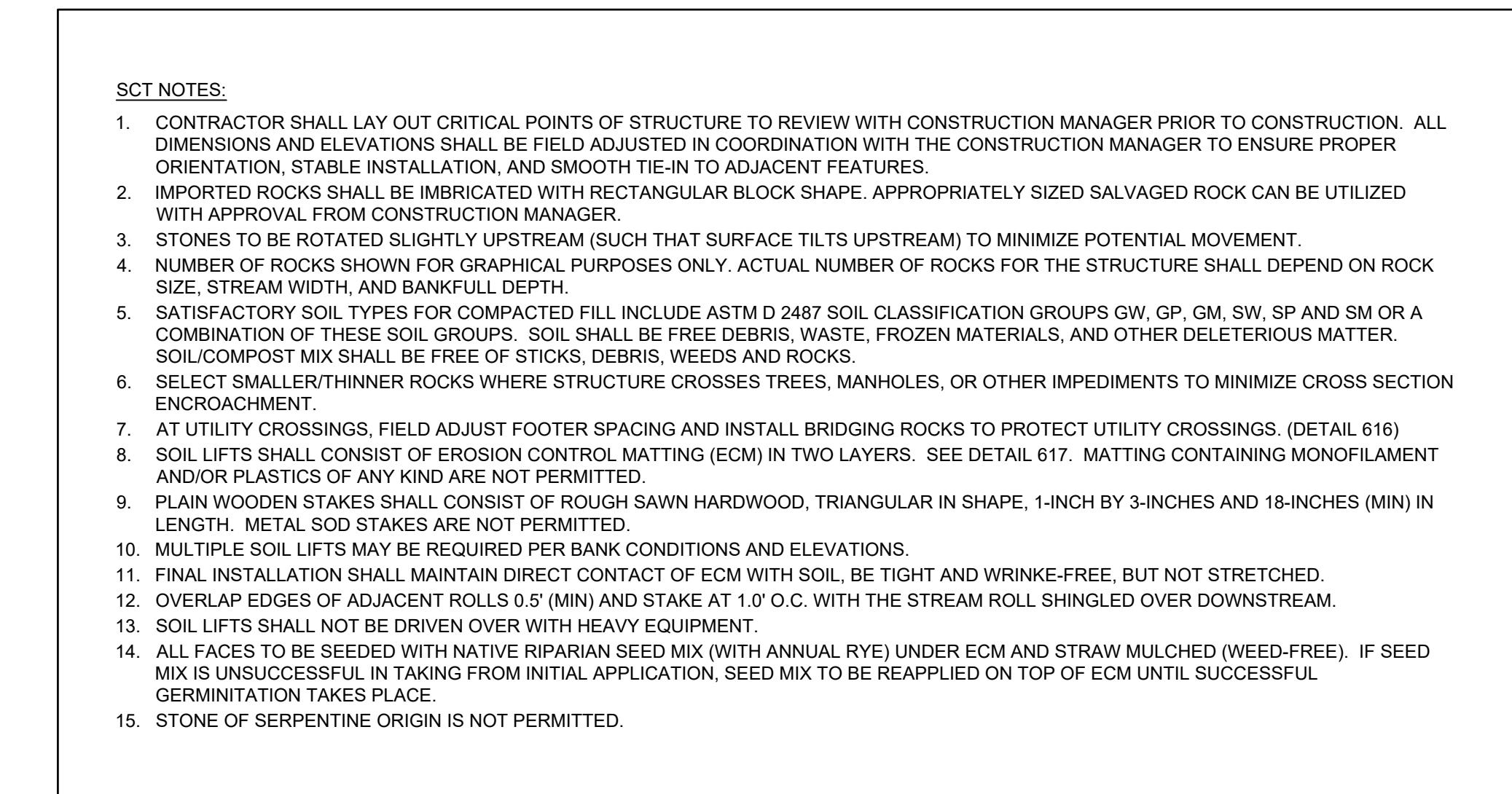
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PAGE 3 OF 4 (NTS)



612  
1 CROSS VANE (CV) DETAIL (NOTES)  
PAGE 4 OF 4 (NTS)



612  
2 SIDE CHANNEL TRANSITION (SCT) DETAIL (CROSS SECTION O-O)  
PAGE 2 OF 4 (NTS)



612  
4 SIDE CHANNEL TRANSITION (SCT) DETAIL (NOTES)  
PAGE 4 OF 4 (NTS)

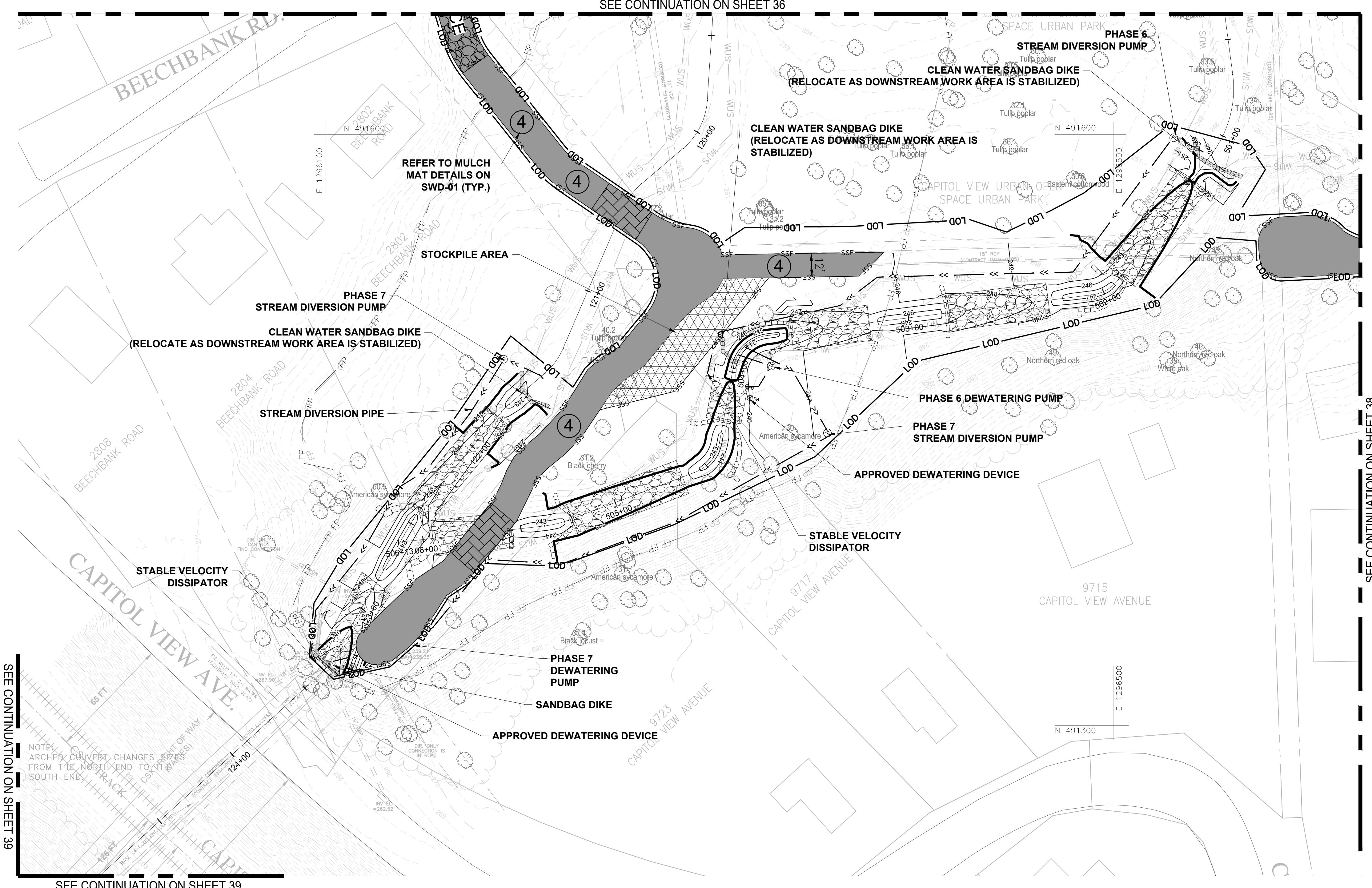
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SEWER INFRASTRUCTURE SECTION  
DATE \_\_\_\_\_  
PDD PROJECT MANAGER \_\_\_\_\_  
JOB NUMBER : CICKCNCRMH7360A22  
NO 31  
200'S 212NW03 & 213NW03  
OF 44  
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WASHINGTON SUBURBAN SANITARY COMMISSION



PLAN  
CAPITOL VIEW ESA

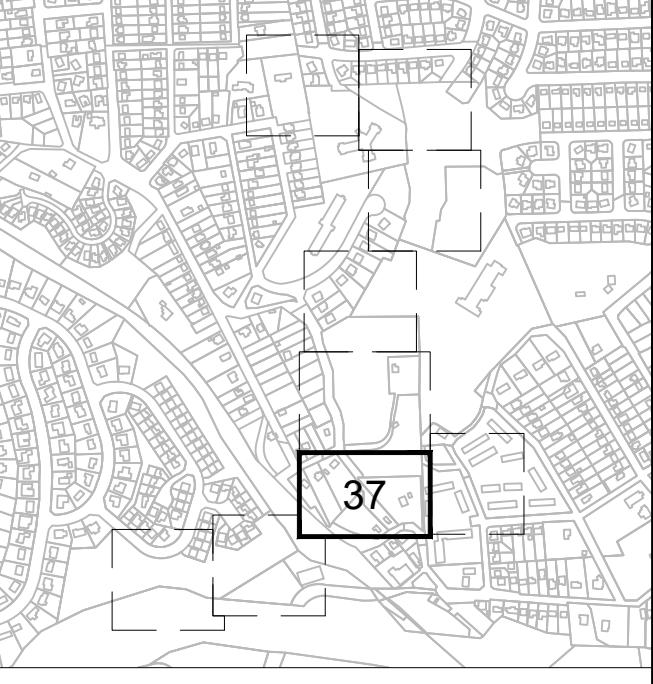
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INTERNATIONAL

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CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
ES-06 EROSION AND SEDIMENT CONTROL PLAN - SHEET 6



## KEY MAP

SCALE: 1" = 1000'

## LEGEND

PROPERTY LINE
WSSC R/W
SANITARY SEWER PIPE
SURVEYED STREAM
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
DIRECTION OF SANITARY SEWER FLOW
SANITARY SEWER MANHOLE
EX. TREE
EX. WETLAND BUFFER
WETLAND DELINEATION
LIMIT OF DISTURBANCE (LOD)
RIFFLE GRADE CONTROL (RGC)
ROCK SILL (RS)
J-HOOK (JH)
IMBRICATED RIPRAP WALL MANHOLE (IRWM)
CROSS VANE (CV)
RIRAP SLOPE PROTECTION
SIDE CHANNEL TRANSITION
TEMPORARY ACCESS ROAD
TEMPORARY FOOT PATH
STAGING AREA
STREAM CROSSING
SUPER SILT FENCE
SAND BAGS
PUMP-AROUND PRACTICE FILTER BAG
STABILIZED CONSTRUCTION ENTRANCE

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Montgomery County  
Historic Preservation Commission  
*Karen Bentler*

REVIEWED  
By Laura DiPasquale at 9:20 am, Nov 14, 2025

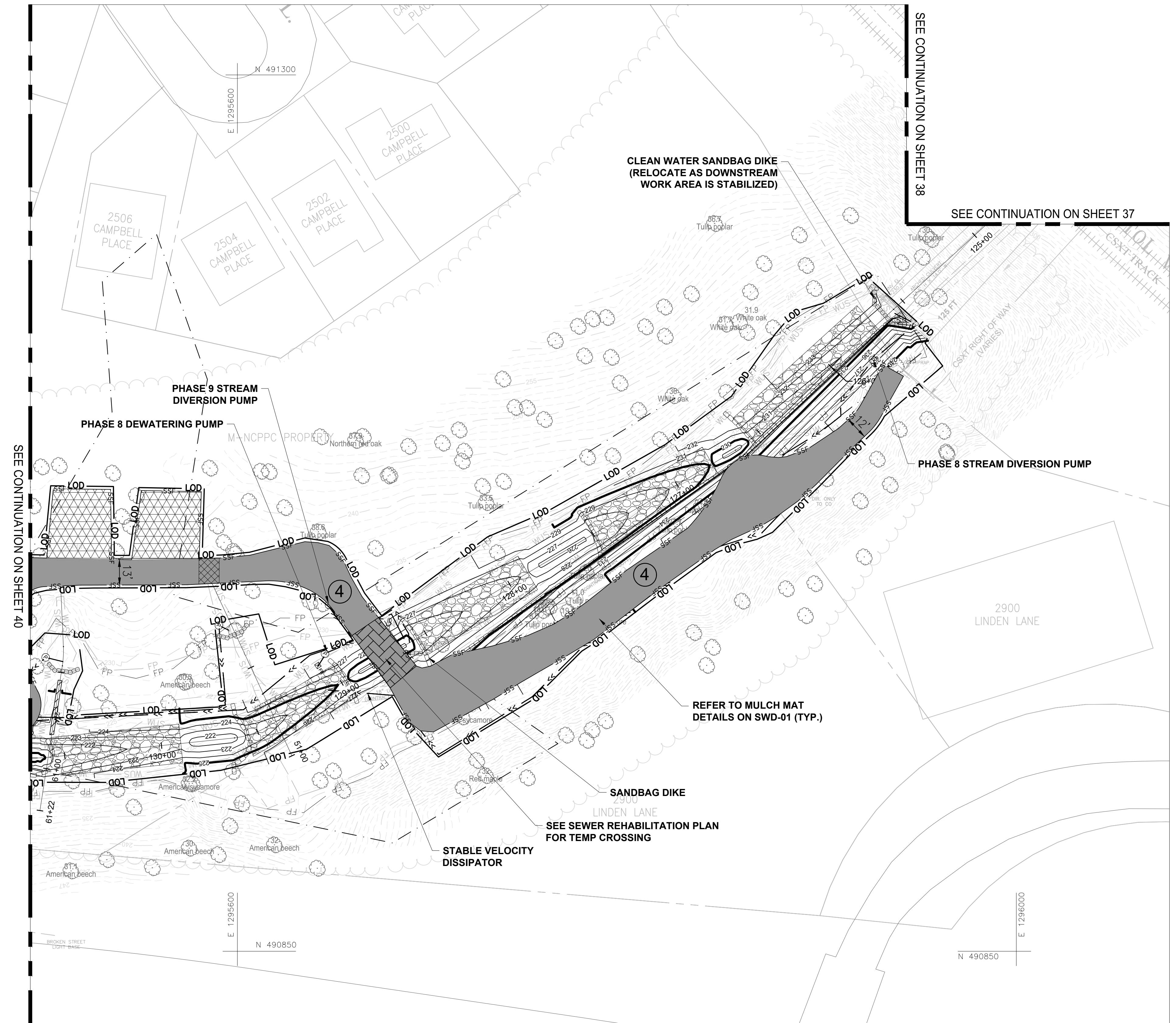
DATE	REVISIONS

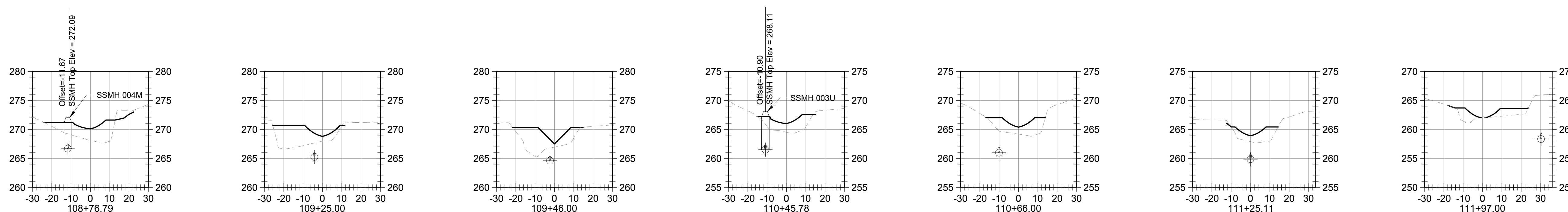
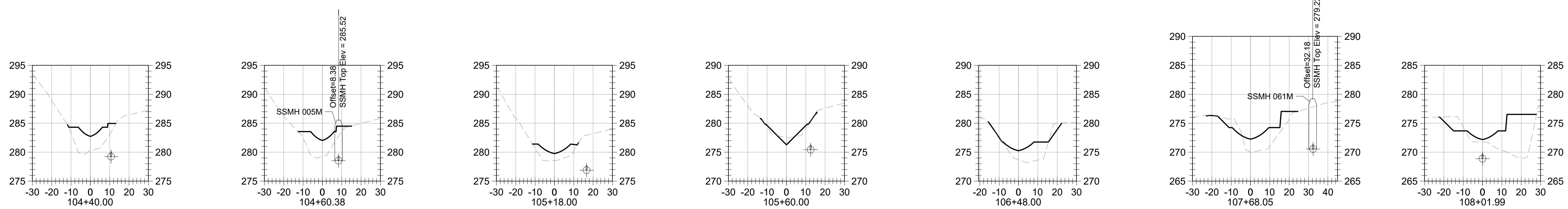
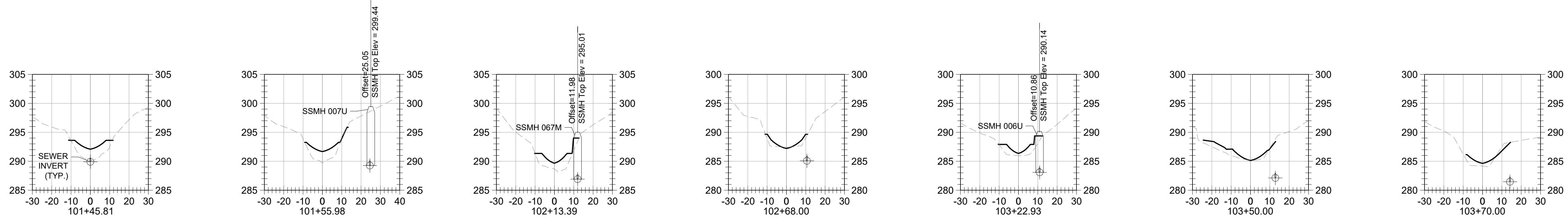
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EXPIRATION DATE: XX/XX/XXXX

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE PDD PROJECT MANAGER

JOB NUMBER : CICKCNCRMH7360A22  
NO 37  
200'S 212NW03 & 213NW03  
OF 44





0 30 60 Feet

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'

EXISTING SEWER INVERT

EXISTING GROUND

EXISTING SEWER MANHOLE

PROPOSED GROUND

WASHINGTON SUBURBAN SANITARY COMMISSION



THESE DOCUMENTS CONTAIN  
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BE REDISTRIBUTED WITHOUT  
PRIOR WSSC APPROVAL

Michael Baker  
INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC.  
10245 Old Columbia Road | Columbia, MD 21046  
301.362.9200 | www.straughanenvironmental.com  
Phone: (410) 689-3400

IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
HC-01 - CONSTRUCTION CROSS-SECTIONS

MAY, 2025

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE  
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DULY LICENSED PROFESSIONAL  
ENGINEER UNDER THE LAWS OF  
THE STATE OF MARYLAND.

NAME: XXXXXXXXXX  
LICENSE NO.: XXXXXX  
EXPIRATION DATE: XX/XX/XXXX

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

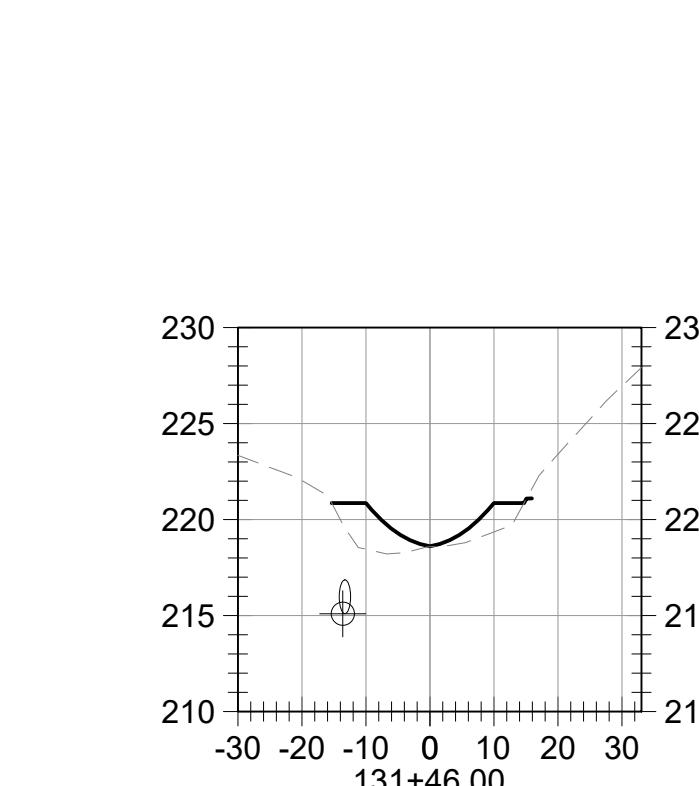
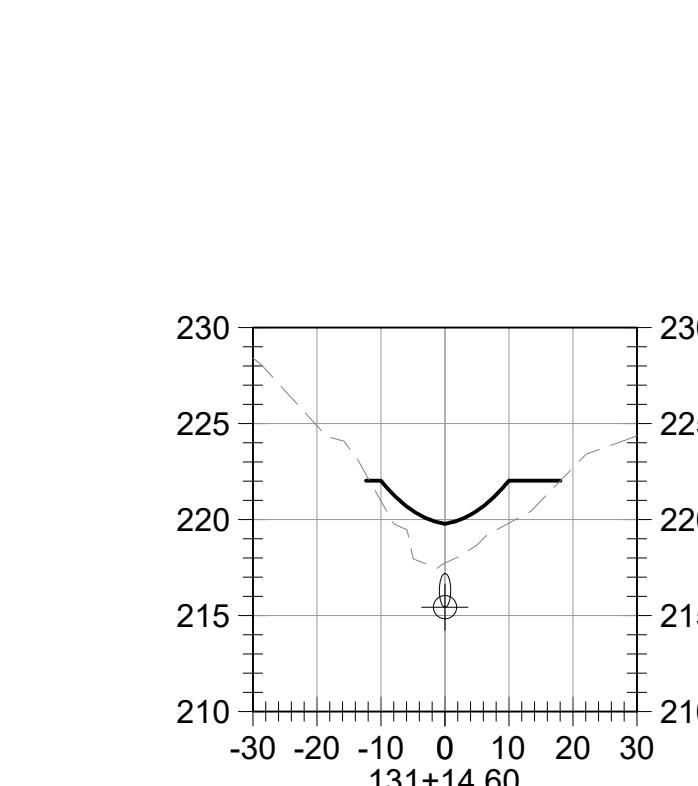
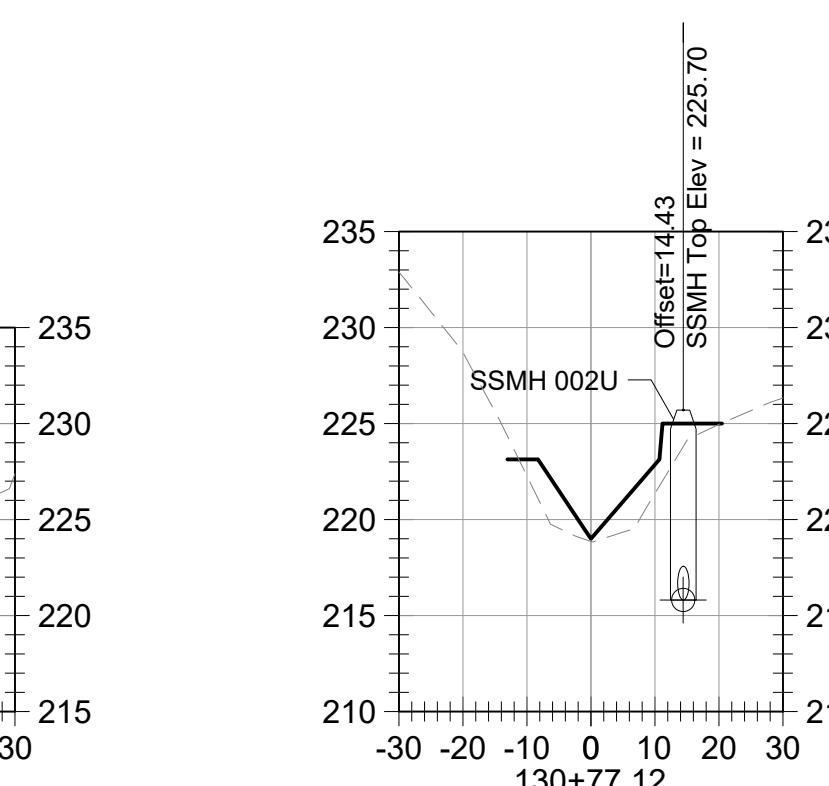
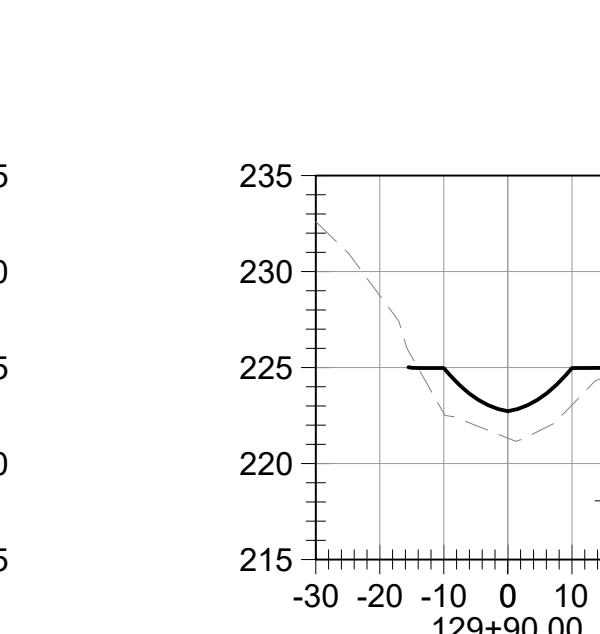
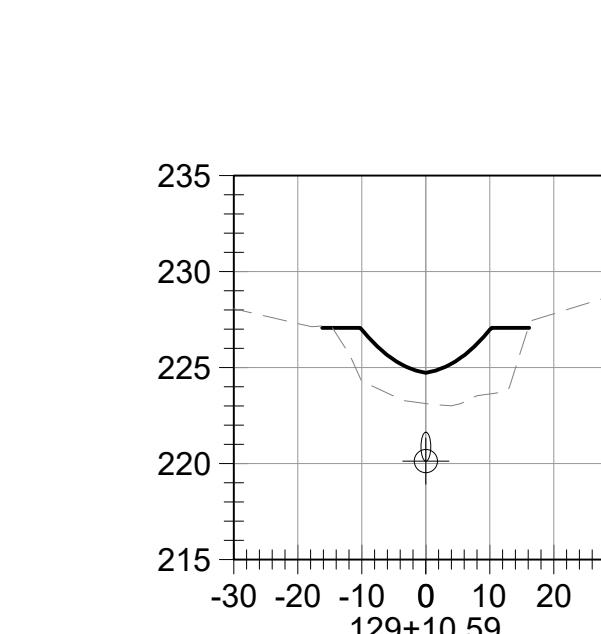
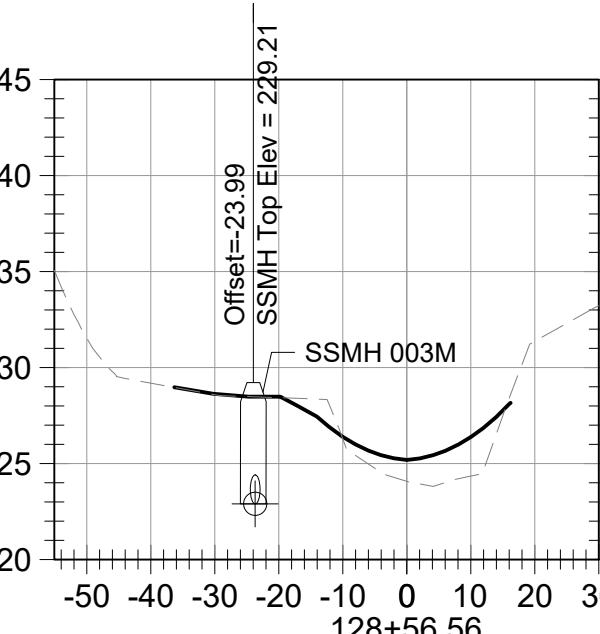
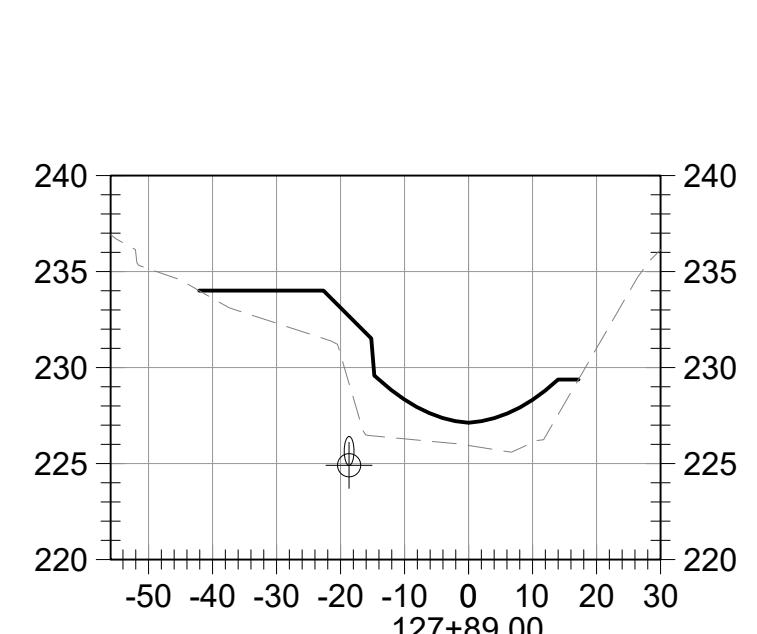
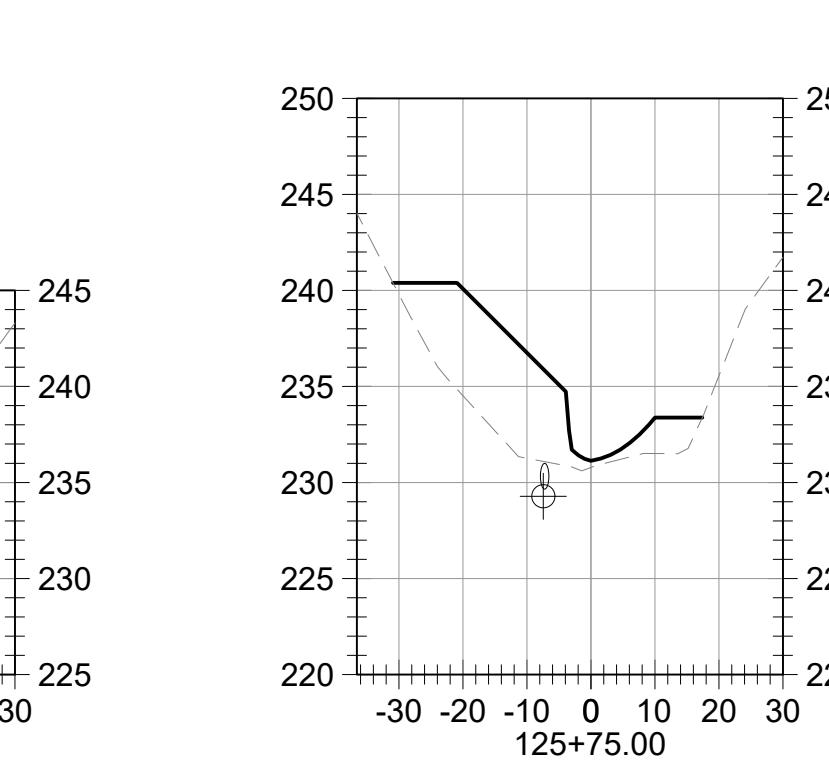
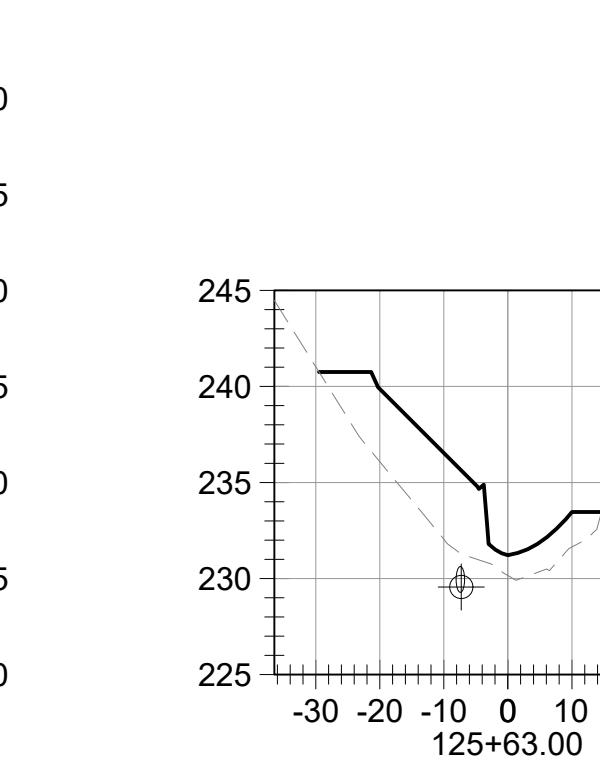
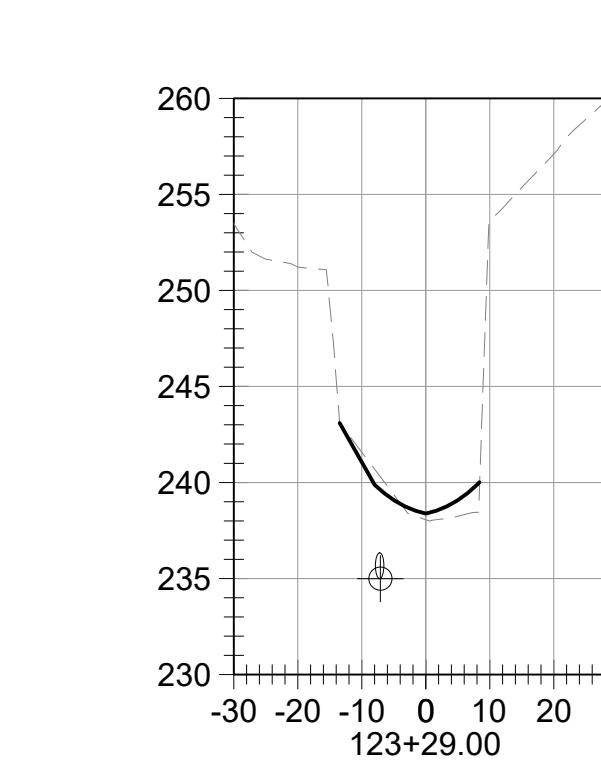
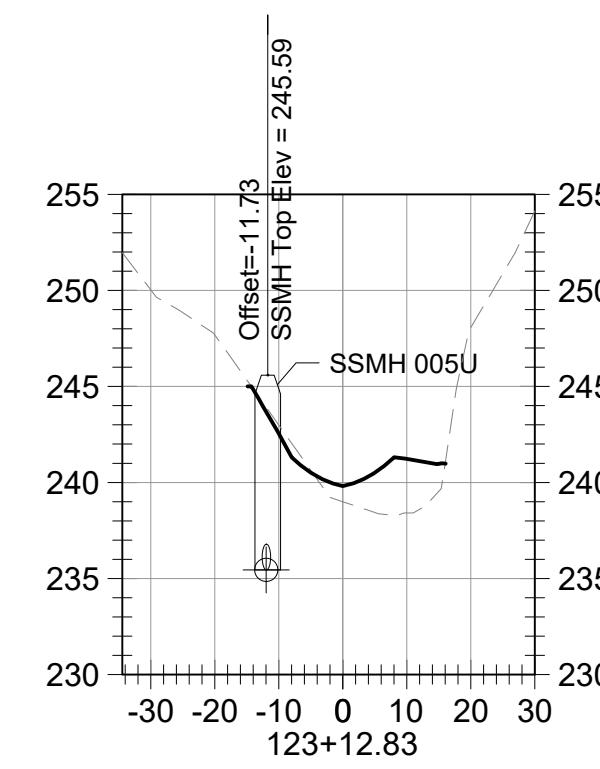
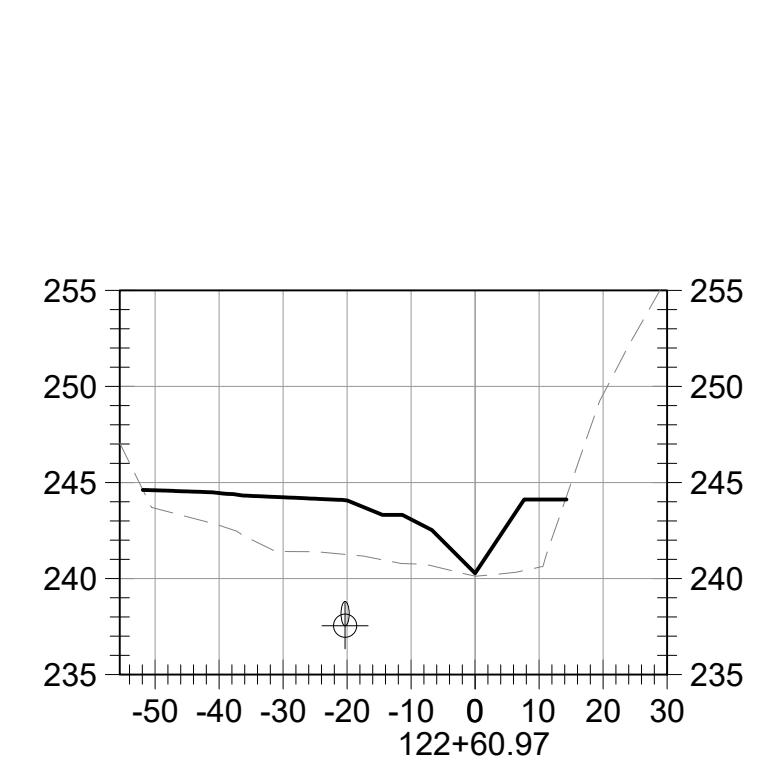
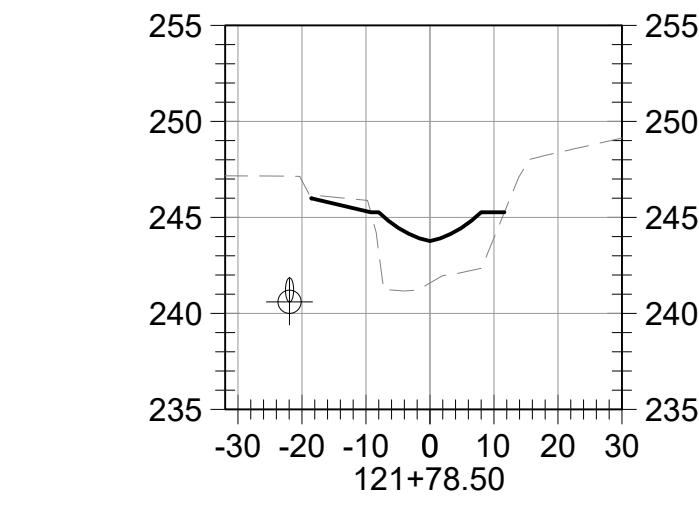
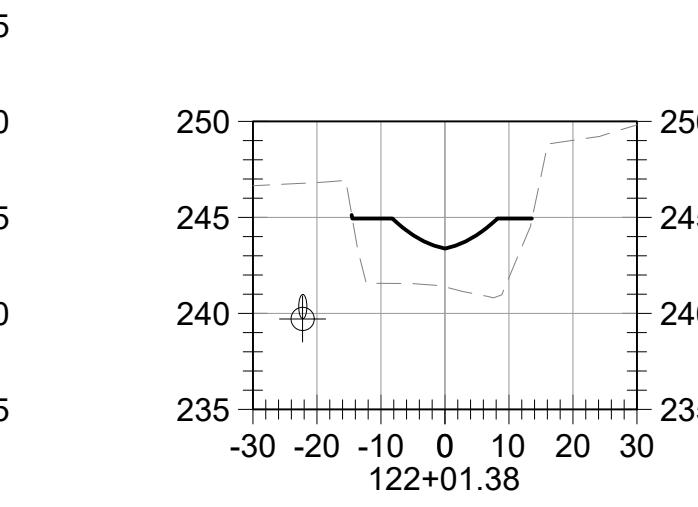
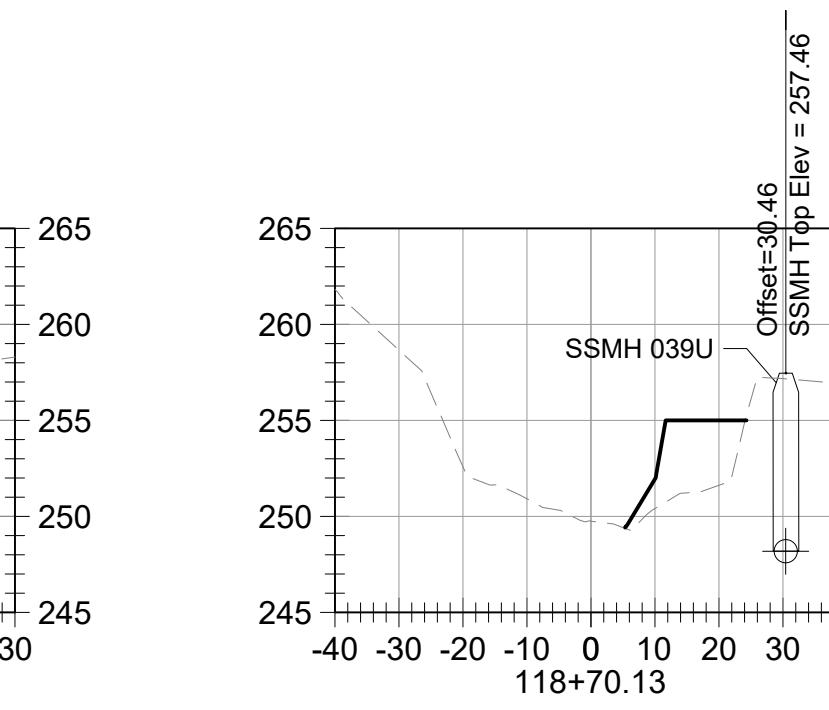
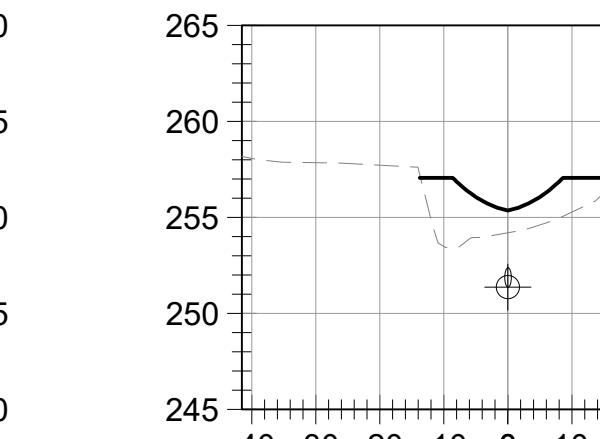
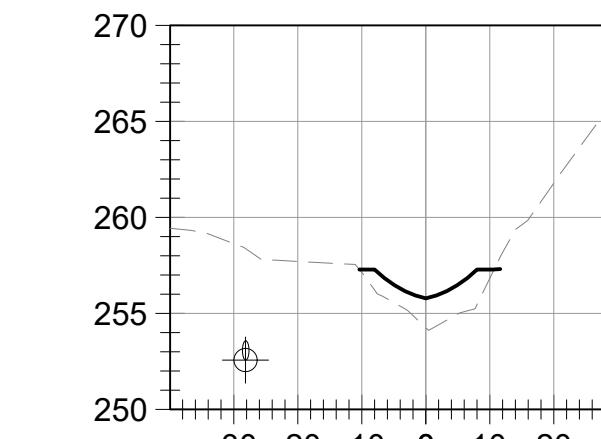
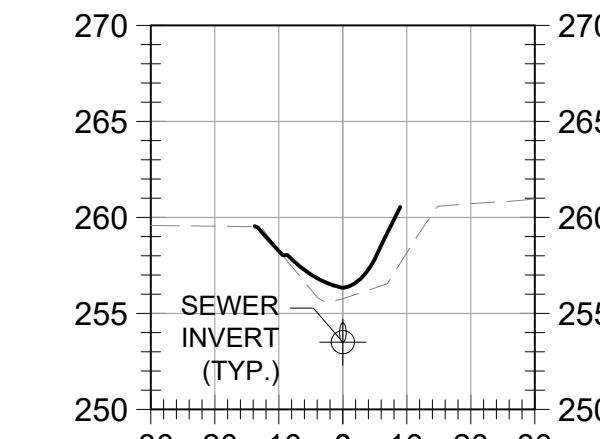
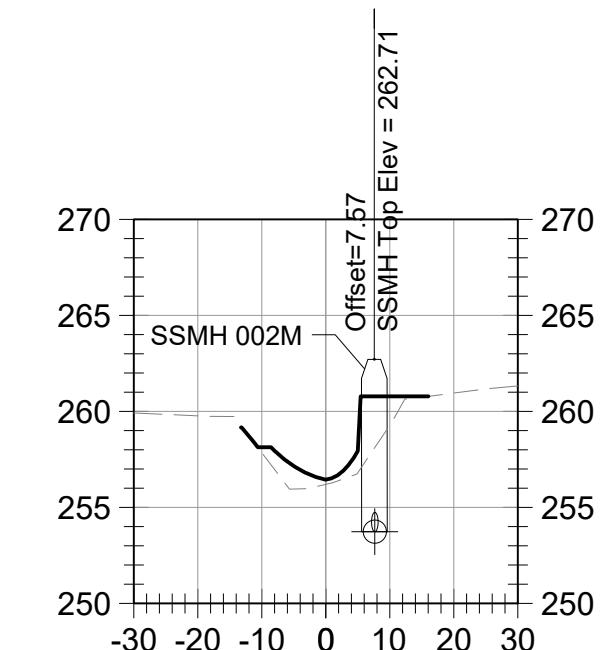
DATE \_\_\_\_\_ PDD PROJECT MANAGER \_\_\_\_\_

JOB NUMBER : CICKCNCRMH7360A22  
200'S 212NW03 & 213NW03  
NO 41  
OF 44

REVIEWED  
By Laura DiPasquale at 9:20 am, Nov 14, 2025

APPROVED  
Montgomery County  
Historic Preservation Commission

DATE \_\_\_\_\_ REVISIONS \_\_\_\_\_



0 30 60  
Feet

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'

EXISTING SEWER INVERT  
EXISTING GROUND

PROPOSED GROUND

EXISTING SEWER MANHOLE

WASHINGTON SUBURBAN SANITARY COMMISSION



WSSC  
WATER  
DELIVERING THE ESSENTIAL

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Michael Baker  
INTERNATIONAL

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1306 Concourse Drive, Suite 500  
Linthicum, MD 21090-1014  
Phone: (410) 689-3400

IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
HC-02 - CONSTRUCTION CROSS-SECTIONS

MAY, 2025

PROFESSIONAL CERTIFICATION

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NAME: XXXXXXXXXX  
LICENSE NO.: XXXXXX  
EXPIRATION DATE: XX/XX/XXXX

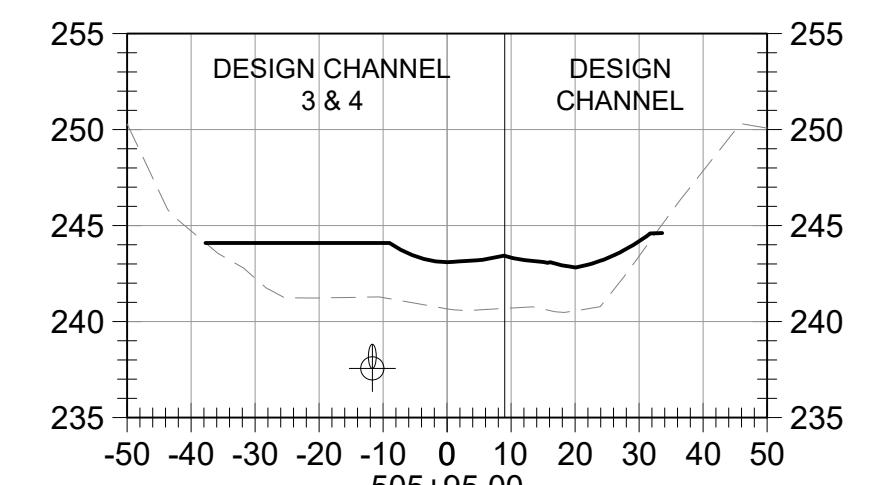
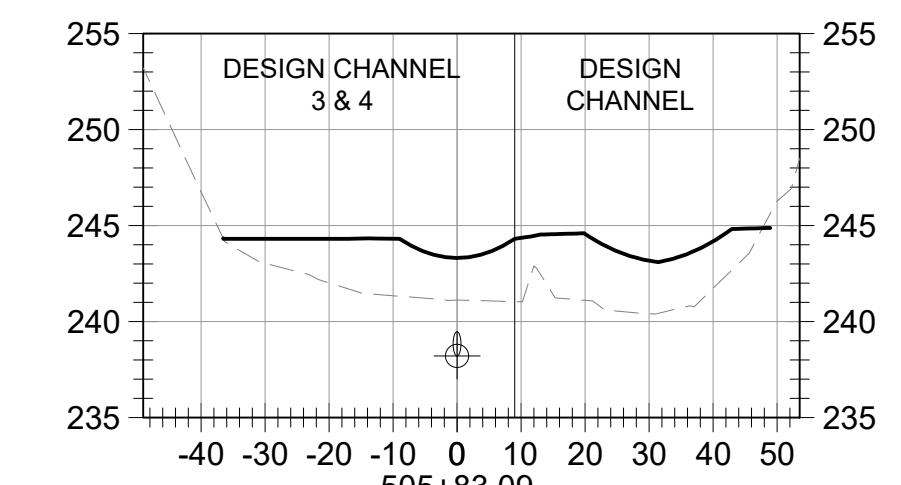
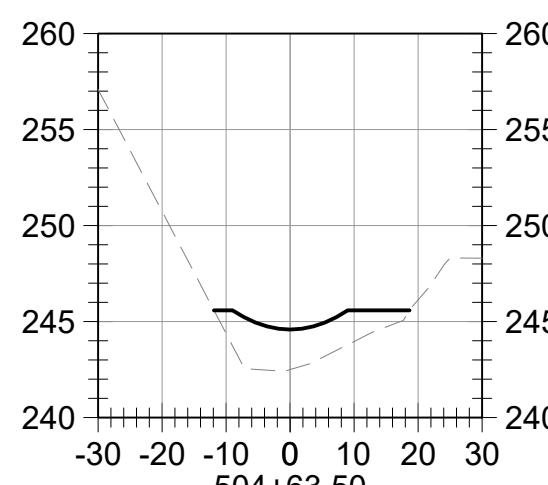
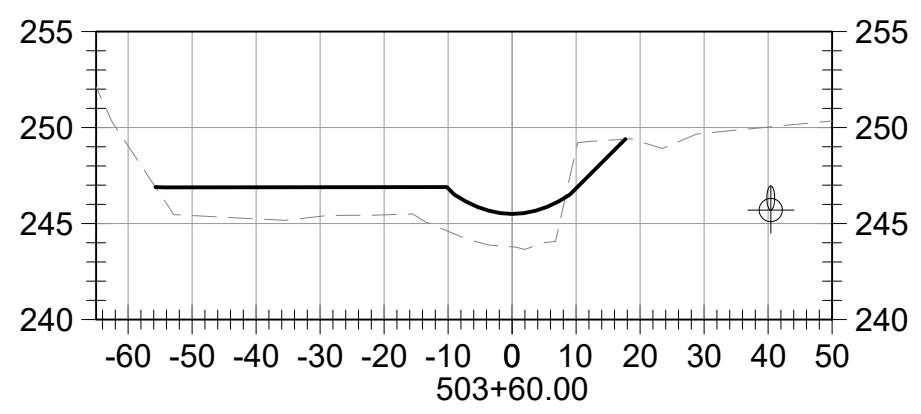
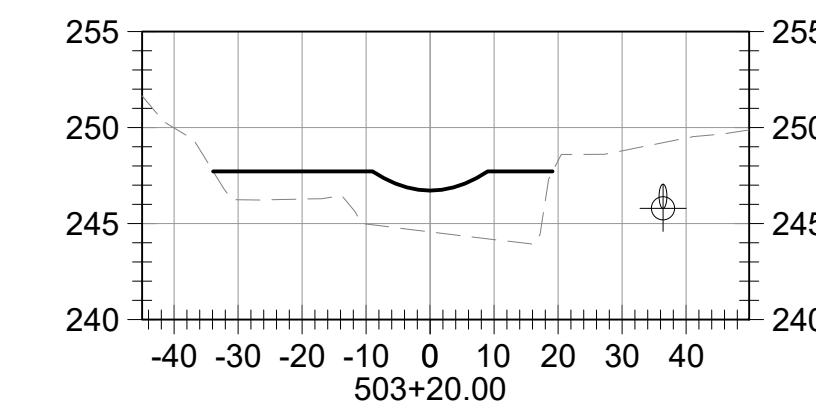
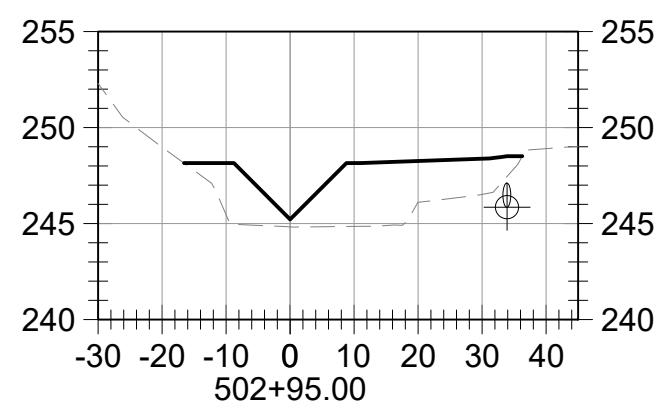
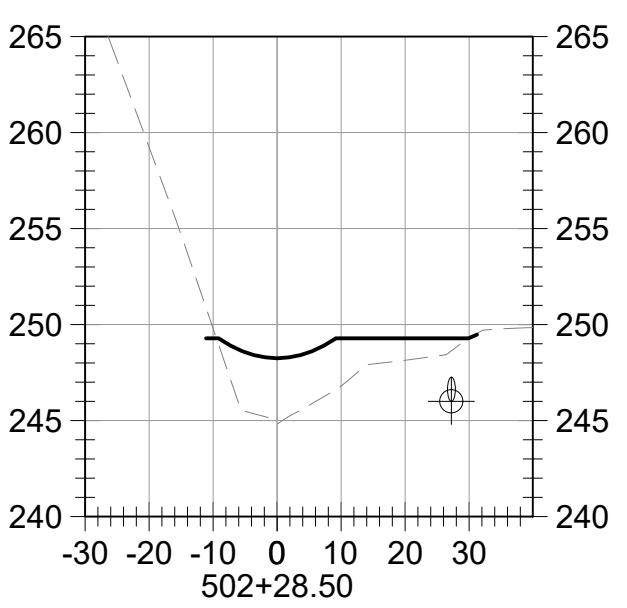
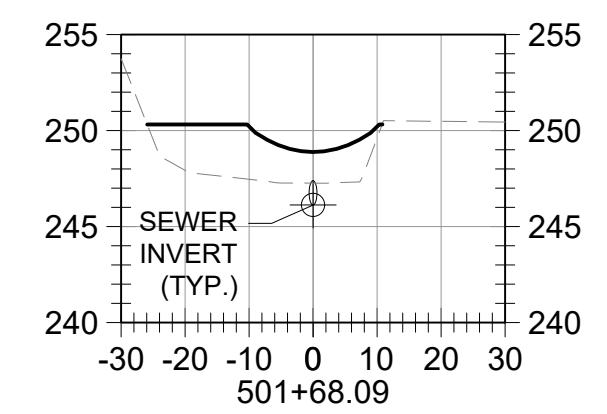
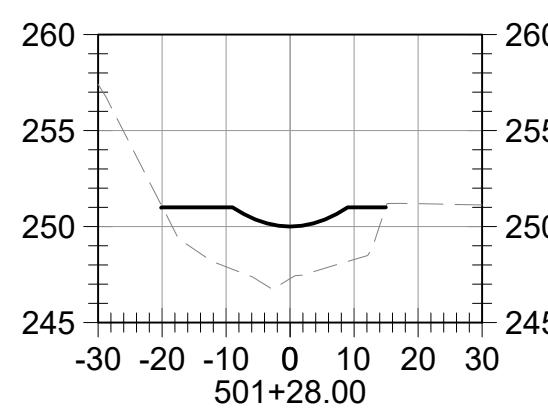
WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

JOB NUMBER : CICKCNCRMH7360A22  
200'S 212NW03 & 213NW03  
NO 42  
OF 44  
VERIFY SCALE - BAR ONE INCH ON ORIGINAL DRAWING 0

REVIEWED  
By Laura DiPasquale at 9:20 am, Nov 14, 2025

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Karen Bulet*

DATE REVISIONS



0 30 60 Feet

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'

EXISTING SEWER INVERT ——————  
EXISTING GROUND ——————

EXISTING SEWER MANHOLE ——————  
PROPOSED GROUND ——————

WASHINGTON SUBURBAN SANITARY COMMISSION



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IDIQ - ESA - C17063A21 - TASK ORDER NO. 05-17  
CAPITOL VIEW - ESA  
SANITARY SEWER RECONSTRUCTION (SSR) MDE FUNDED PROJECT  
HC-03 - CONSTRUCTION CROSS-SECTIONS

MAY, 2025

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NAME: XXXXXXXXXX  
LICENSE NO.: XXXXXX  
EXPIRATION DATE: XX/XX/XXXX

**REVIEWED**  
By Laura DiPasquale at 9:20 am, Nov 14, 2025

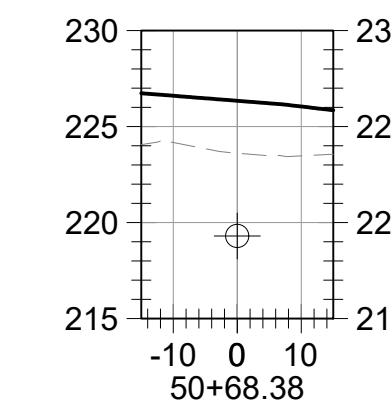
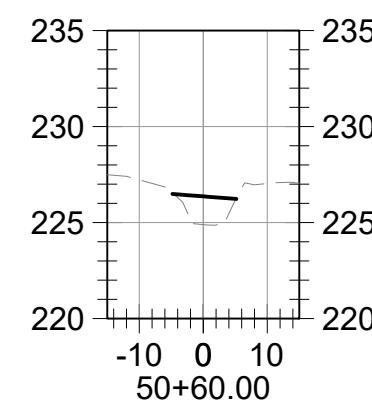
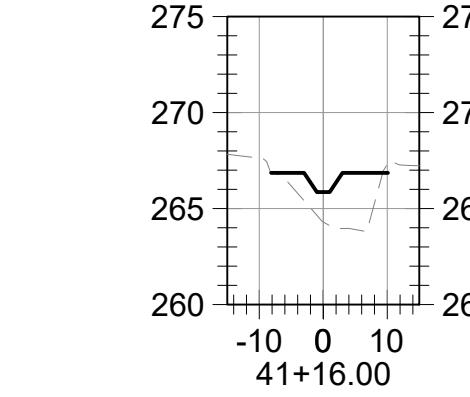
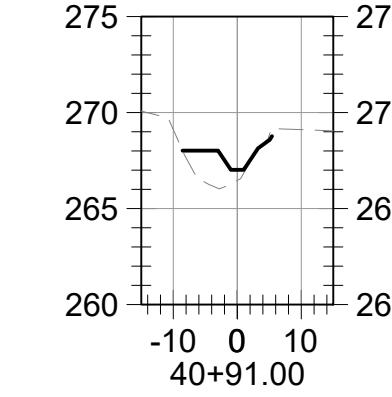
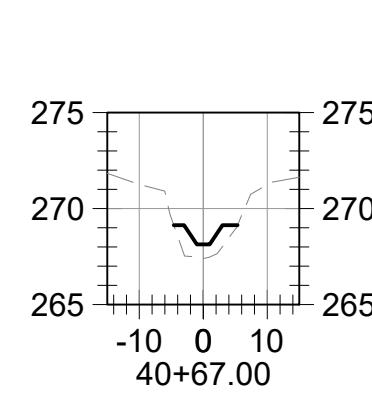
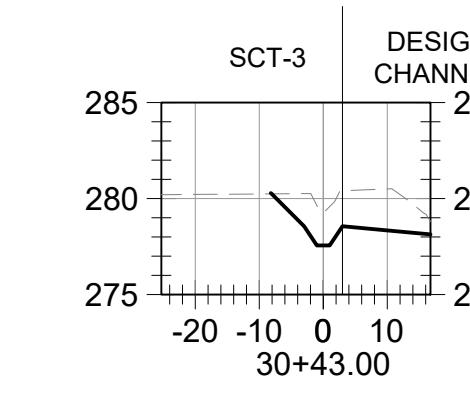
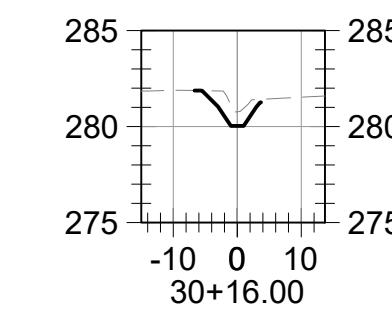
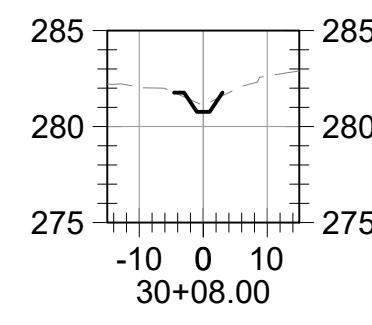
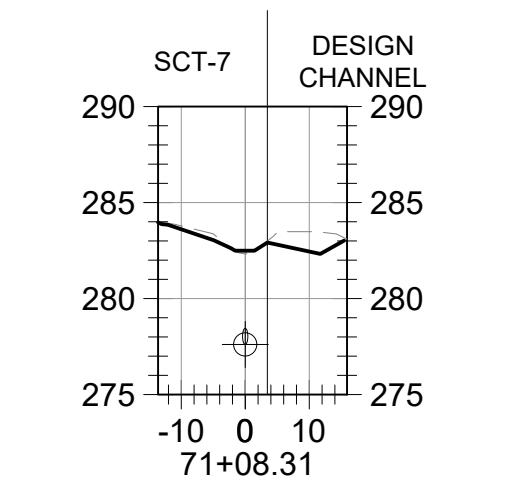
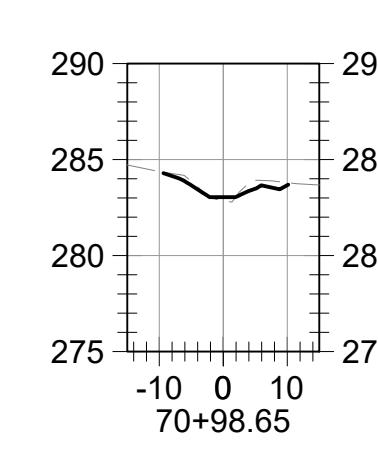
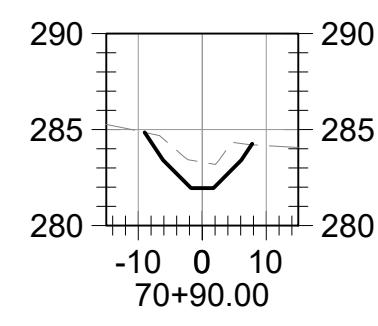
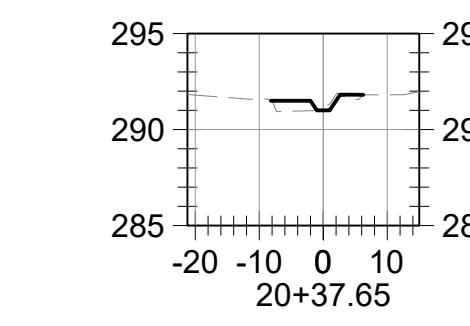
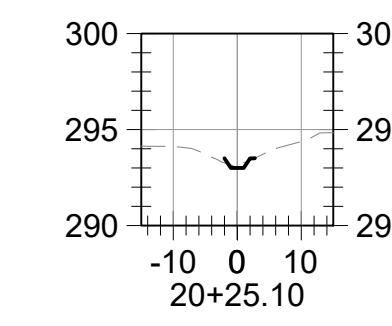
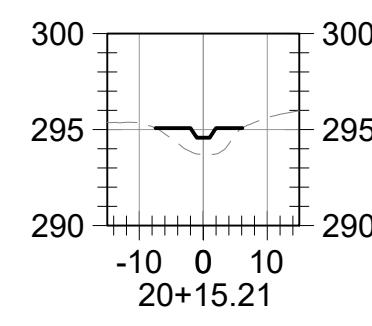
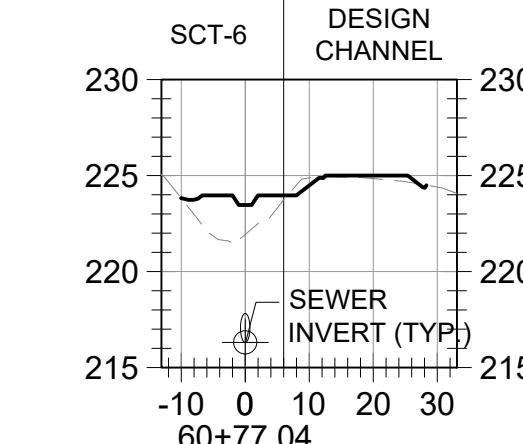
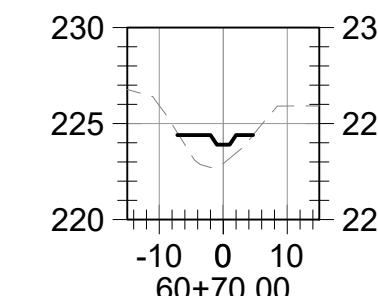
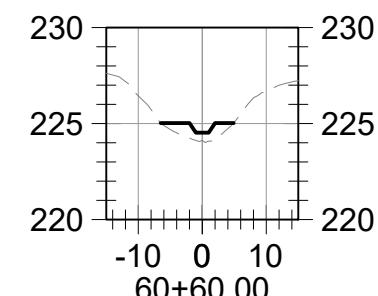
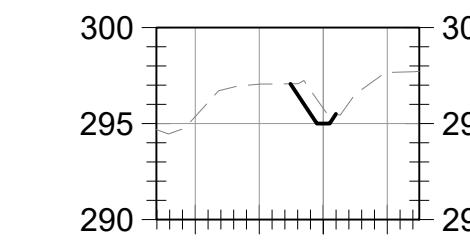
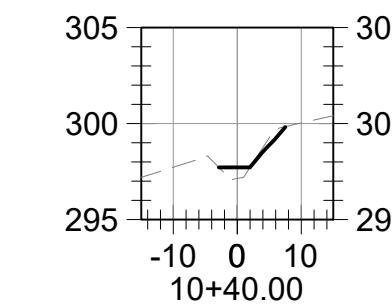
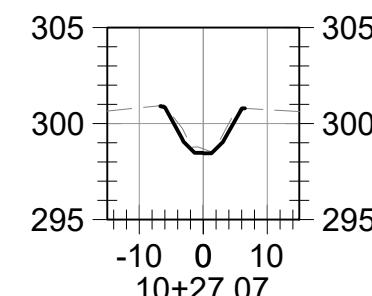
**APPROVED**  
Montgomery County  
Historic Preservation Commission  
*Karen Bensel*

DATE	REVISIONS

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

DATE	PDD PROJECT MANAGER

JOB NUMBER : CICKCNCRMH7360A22  
NO 43  
200'S 212NW03 & 213NW03  
OF 44



0 30 60 Feet

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'

EXISTING SEWER EXISTING GROUND

EXISTING SEWER MANHOLE PROPOSED GROUND

**REVIEWED**  
By Laura DiPasquale at 9:20 am, Nov 14, 2025

**APPROVED**  
Montgomery County  
Historic Preservation Commission  


DATE	REVISIONS

WSSC PIPELINE DESIGN DIVISION  
SEWER INFRASTRUCTURE SECTION

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NAME: XXXXXXXXXX  
LICENSE NO.: XXXXXX  
EXPIRATION DATE: XX/XX/XXXX

DATE	PDD PROJECT MANAGER
200'S 212NW03 & 213NW03	NO 44 OF 44

VERIFY SCALE - BAR IS ONE INCH ON ORIGINAL DRAWING 0

1". IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.