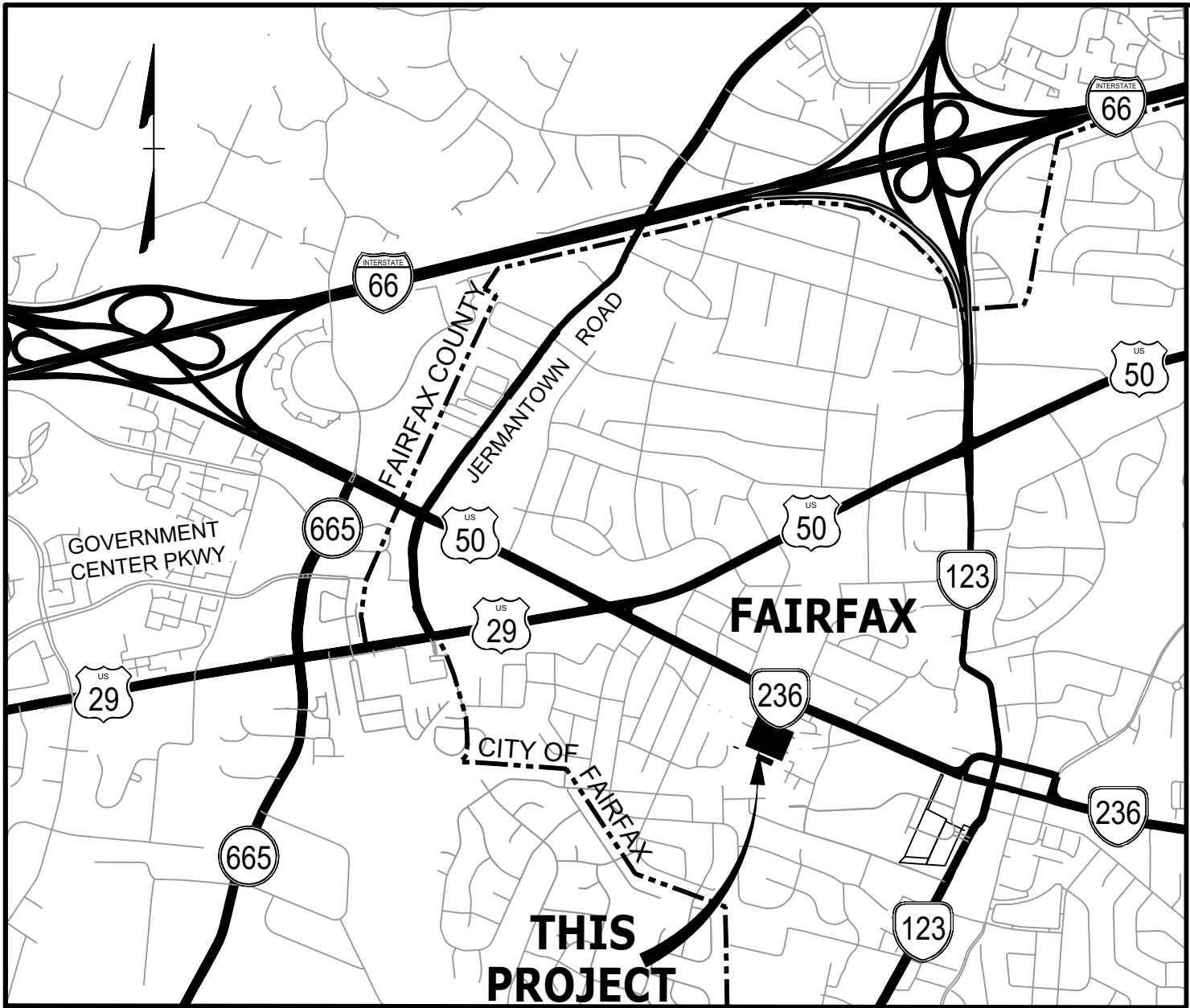


PROJECT MANAGER: CATHY SALGADO (CITY OF FAIRFAX - PARKS & RECREATION)  
SURVEYED BY: DATE: TIMMONS GROUP (08/2017)  
DESIGN BY: TIMMONS GROUP  
SUBSURFACE UTILITY BY, DATE: TIMMONS GROUP (08/2017)

TIMMONS GROUP

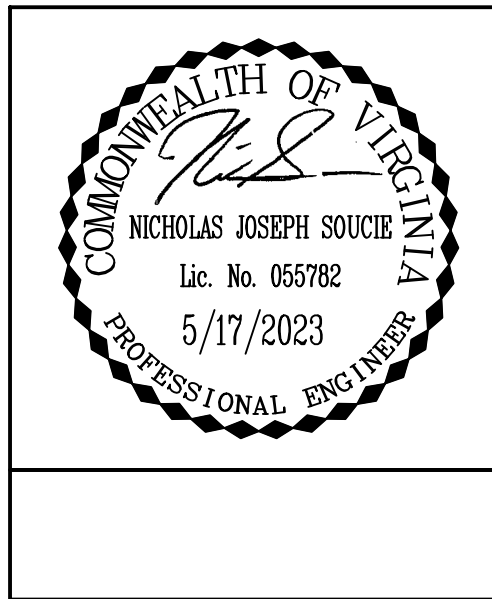


LOCATION MAP

SCALE: 1" = 2,000'

INDEX OF SHEETS

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TOTAL NUMBER OF SHEETS	27



OWNER/APPLICANT:

CITY OF FAIRFAX TRANSPORTATION DEPARTMENT  
10455 ARMSTRONG STREET, ROOM 200A  
FAIRFAX, VA 22030

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS (SEPTEMBER 2022 REVISION), 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 2, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

ALL PROPOSED FACILITIES DEPICTED ON THIS PLAN SHALL BE OWNED AND MAINTAINED BY THE CITY OF FAIRFAX.

THIS PROJECT WAS DEVELOPED UTILIZING THE ENGINEERING DESIGN PACKAGE (AutoCAD CIVIL 3D).  
Computer Identification No. (UPC 113614)



COMMONWEALTH OF VIRGINIA



PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY

CITY OF FAIRFAX, VIRGINIA

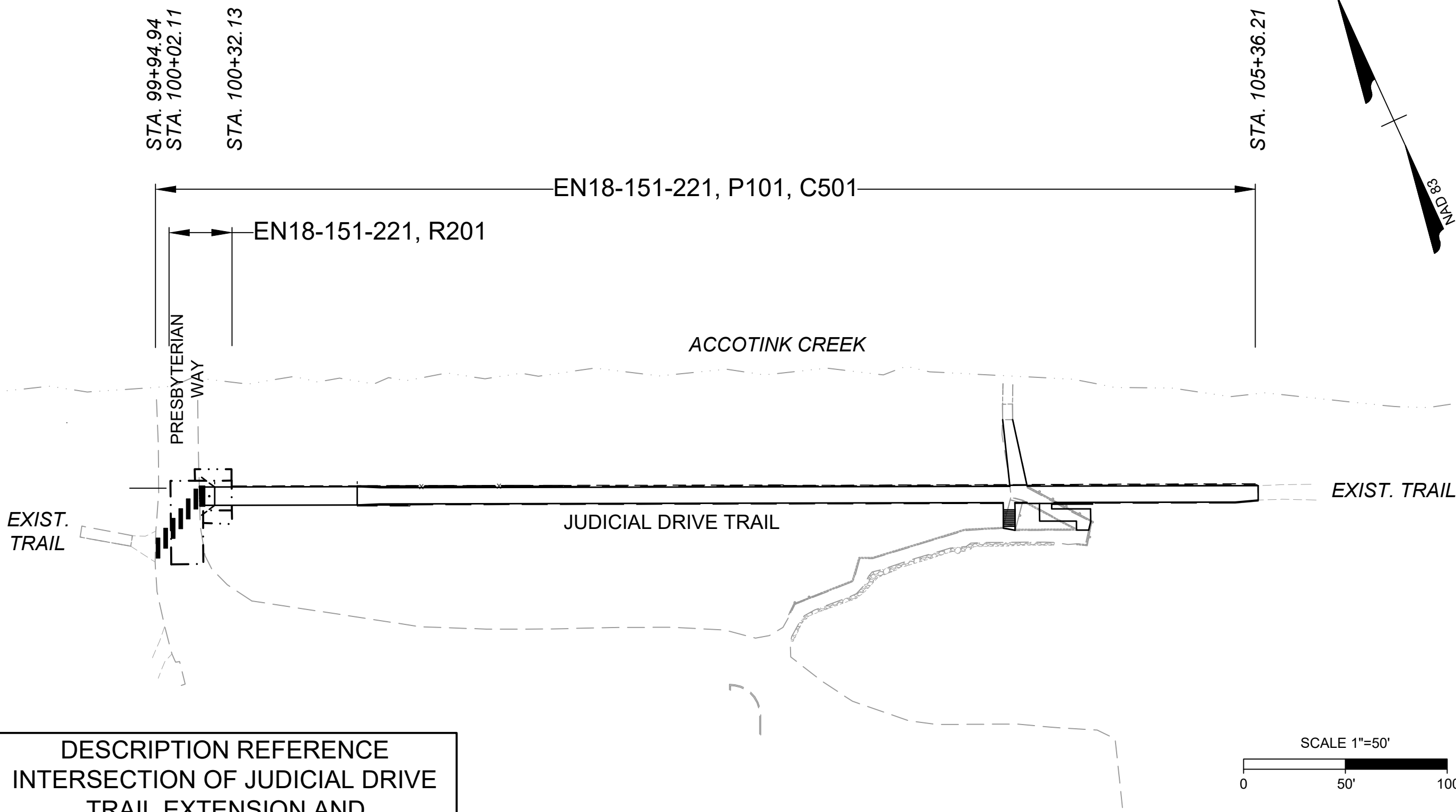
JUDICIAL DRIVE TRAIL CONNECTION

FROM: INTERSECTION OF PRESBYTERIAN WAY

TO: 0.10 MILES EAST OF INTERSECTION OF PRESBYTERIAN WAY

(38°50'54" N, 77°19'78" W)

CONSTRUCTION PLANS



DESCRIPTION REFERENCE  
INTERSECTION OF JUDICIAL DRIVE  
TRAIL EXTENSION AND  
PRESBYTERIAN WAY  
POI STA. 100+06.63

5/17/2023

Population 23,257 (2016 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
EN18-151-221	P101	TAP-5B01(014)	PENG	113614	NONE	541.27	0.103	471.27	0.089		PRELIMINARY	Fr: INTERSECTION OF PRESBYTERIAN WAY To: 0.10 MILES EAST OF INTERSECTION OF PRESBYTERIAN WAY
	R201	TAP-5B01(223)	ROW	113614	NONE	30.02	0.006	30.02	0.006		RIGHT OF WAY	Fr: 0.003 MILES WEST OF INTERSECTION OF PRESBYTERIAN WAY To: 0.003 MILES EAST OF INTERSECTION OF PRESBYTERIAN WAY
	C501	TAP-5B01(337)	CONSTR.	113614	NONE	541.27	0.103	471.27	0.089		CONSTR.	Fr: INTERSECTION OF PRESBYTERIAN WAY To: 0.10 MILES EAST OF INTERSECTION OF PRESBYTERIAN WAY

Project Lengths are based on Construction Baseline.

DISTURBED AREA: 0.25 AC.

FHWA-534 DATA 47028

STATE	FEDERAL AID	STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT	
VA.	SEE TABULATION BELOW FOR SECTION NUMBERS	000	EN18-151-221 P101, R201, C501 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

City of Fairfax  
APPROVED SITE PLAN  
SITE PLAN NUMBER SP-20-00368

Zoning Official \_\_\_\_\_ Date \_\_\_\_\_

Review approval by:

\_\_\_\_\_  
Fire Marshal (for water distribution system & fire hydrant location)

\_\_\_\_\_  
Fairfax Water

\_\_\_\_\_  
Director CDP

\_\_\_\_\_  
Director of Public Works

\_\_\_\_\_  
City Engineer

\_\_\_\_\_  
PW Plan Reviewer

\_\_\_\_\_  
Code Admin. Asst. Chief

\_\_\_\_\_  
Site Plan Coordinator

\_\_\_\_\_  
BAR Liaison

\_\_\_\_\_  
Environmental Reviewer

\_\_\_\_\_  
Wastewater Reviewer

\_\_\_\_\_  
GIS Manager

\_\_\_\_\_  
Bonding Administrator \_\_\_\_\_ Date \_\_\_\_\_

TIER 1 PROJECT

LOCALLY ADMINISTERED PROJECTS	
CITY OF FAIRFAX	
NAME OF LOCALITY	
(SIGNATURE)	DAVID SUMMERS
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
2/26/2021	DIRECTOR OF PUBLIC WORKS
DATE	TITLE OF POSITION
(SIGNATURE)	DAVID SUMMERS
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
4/11/2023	DIRECTOR OF PUBLIC WORKS
DATE	TITLE OF POSITION

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER

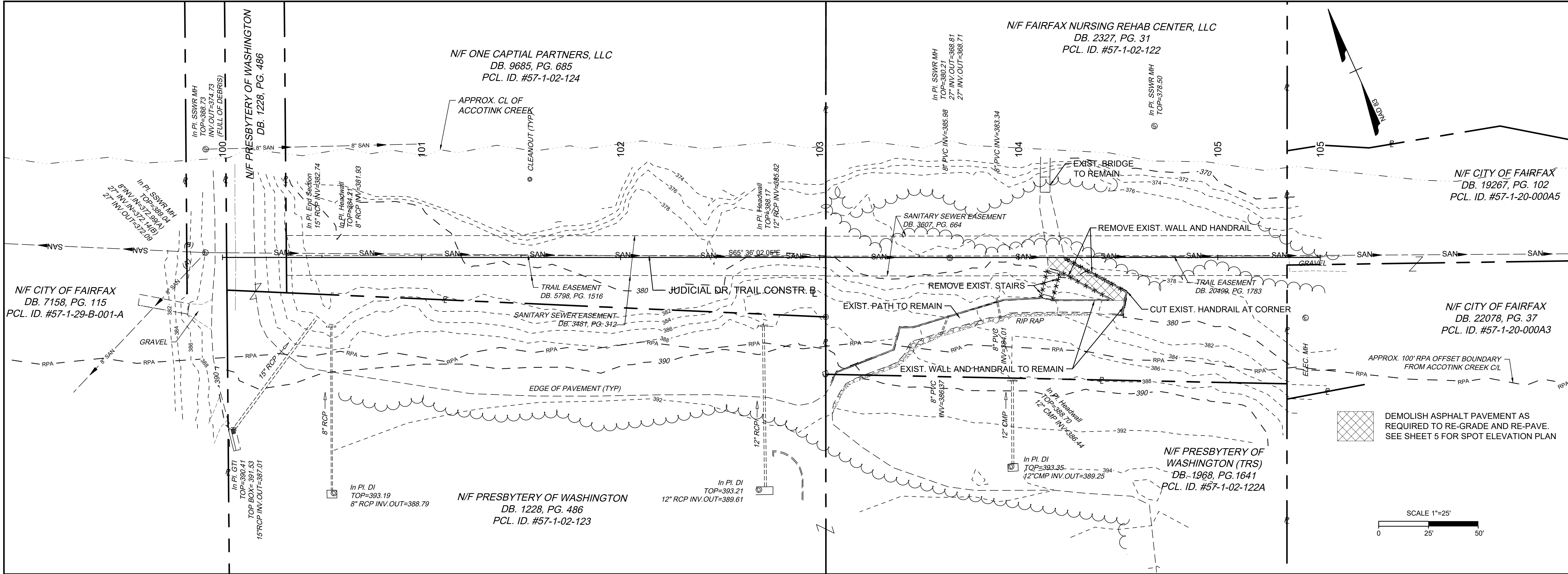
APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT ENGINEER / ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR CONSTRUCTION	
DATE	DISTRICT ENGINEER / ADMINISTRATOR



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Horizontal Alignment Report

File: L:\2034\1013-Fairfax\_On-Call\006-203-JudicialDr\_Trail\DWG\Sheet\CD\41013.006-203C-01A.dwg  
Report Date: 2/17/2020 9:45:48 AM  
Alignment Name: Judicial Dr. Trail  
Station Range: Start: 100+00.00, End: 105+51.47  
Description:  
\*\*\*\*\*

Begin Judicial Dr. Trail  
N 6,994,140.7548 E 11,819,674.8008 100+00.00

Line (1)  
S65° 36' 02.05"E 551.468'  
N 6,993,912.9461 E 11,820,177.0156 105+51.47  
Line (1)

N 6,993,912.9461 E 11,820,177.0156 105+51.47  
End Judicial Dr. Trail

Alignment Length: 551.468'  
\*\*\*\*\*

Survey Control Monuments

Name	Northing	Easting	Point Elevation	Alignment	Station	Offset
Benchmark No. 1 (Nail)	6993959.66	11819684.46	395.94	Judicial Dr. Trail	100+83.60	161.93 Rt.
Benchmark No. 2 (Nail)	6993852.52	11819913.48	397.14	Judicial Dr. Trail	103+36.43	164.89 Rt.

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF JEFFREY A. SMERALDO FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED ON THE FOLLOWING DATES: AUGUST 17, 21, 22, 2017. THIS PLAT, MAP AND DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88

DATUM ESTABLISHED BY GPS OBSERVATIONS BY THIS FIRM.

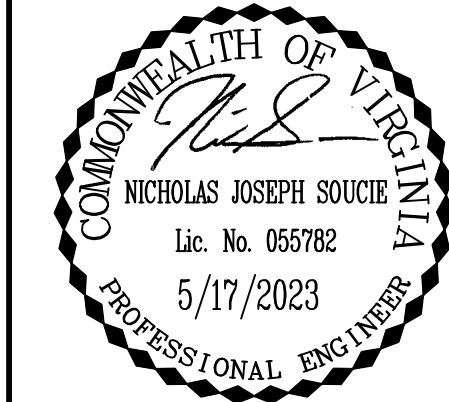
NO PAINTED SUBSURFACE UTILITIES LOCATED AT THE TIME OF SURVEY

FIELDWORK COMPLETED AUGUST 22, 2017.

YOUR VISION ACHIEVED THROUGH OURS.

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CORPORATE OFFICE  
1001 Boulders Parkway, Alexandria, VA 22325  
TEL 804.200.6500 FAX 804.560.0116 www.timmons.com

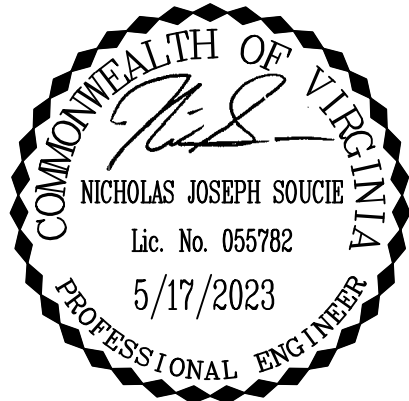
DATE	REVISION DESCRIPTION
5/17/2023	
DRAWN BY	DJH
DESIGNED BY	DJH
CHECKED BY	NJS
SCALE	1"=25'



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PARCEL NO.	LANDOWNER	PARCEL ID	SHEET NO.	AREA									
				TOTAL	FEE TAKING	FEE REMAINDER	EASEMENTS						PROFFERS
							UTILITY		PERMANENT			TEMPORARY	
							PUBLIC	VERIZON	DRAINAGE	SLOPE	TRAIL	CONSTRUCTION	
							ACRES	ACRES	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.
001	N/F PRESBYTERY OF WASHINGTON	57-1-02-123	03	5.239	0.000	5.239	-	-	-	-	1,678	192	NO
002	N/F HTA-FAIRFAX MEDICAL CENTER, LLC C/O HEALTHCARE TRUST OF AMERICA, INC	57-1-02-124	03	3.473	0.000	3.473	-	-	-	-	-	-	NO
003	N/F 10701 MAIN STREET LLC	57-1-02-122	03	2.536	0.000	2.536	-	-	-	-	-	-	NO

UPC: 113614



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**CORPORATE OFFICE**  
1001 Boulder Parkway, Suite 300 | Richmond, VA 23225  
TEL 804.200.0500 FAX 804.360.1016 www.timmons.com

TIMMONS GROUP

Site Development | Residential | Infrastructure | Technology

JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

RIGHT OF WAY DATA SHEET

JOB NO.  
41013.006

SHEET NO.  
01B

DATE  
5/17/2023

DRAWN BY  
DJH

DESIGNED BY  
DJH

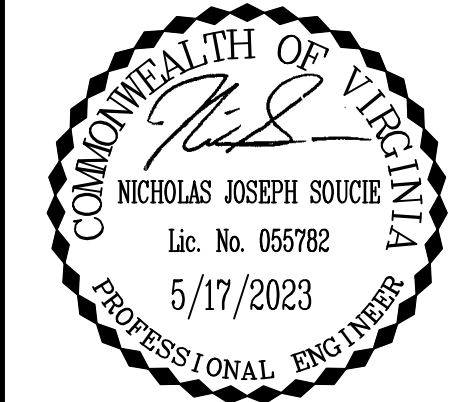
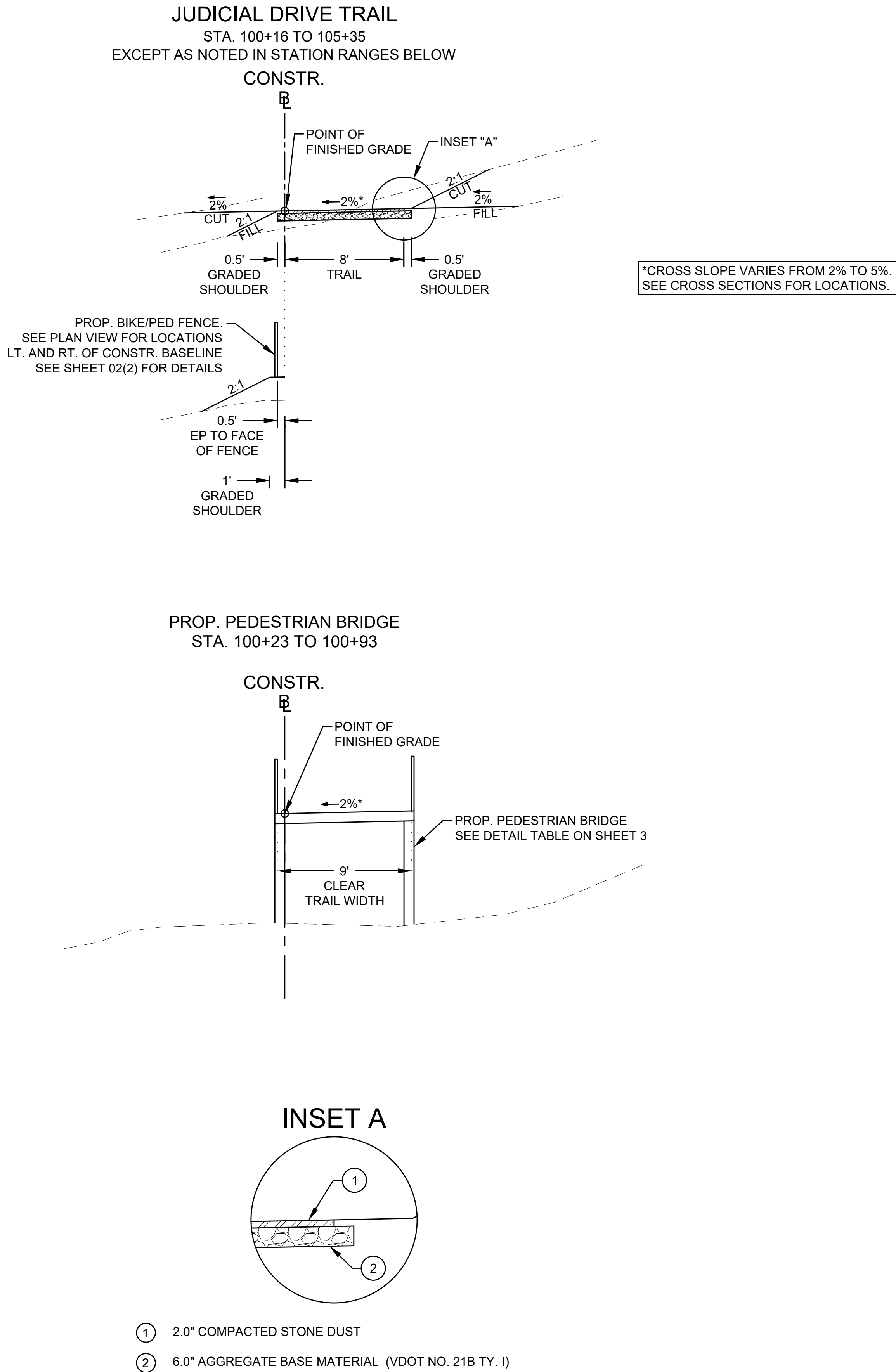
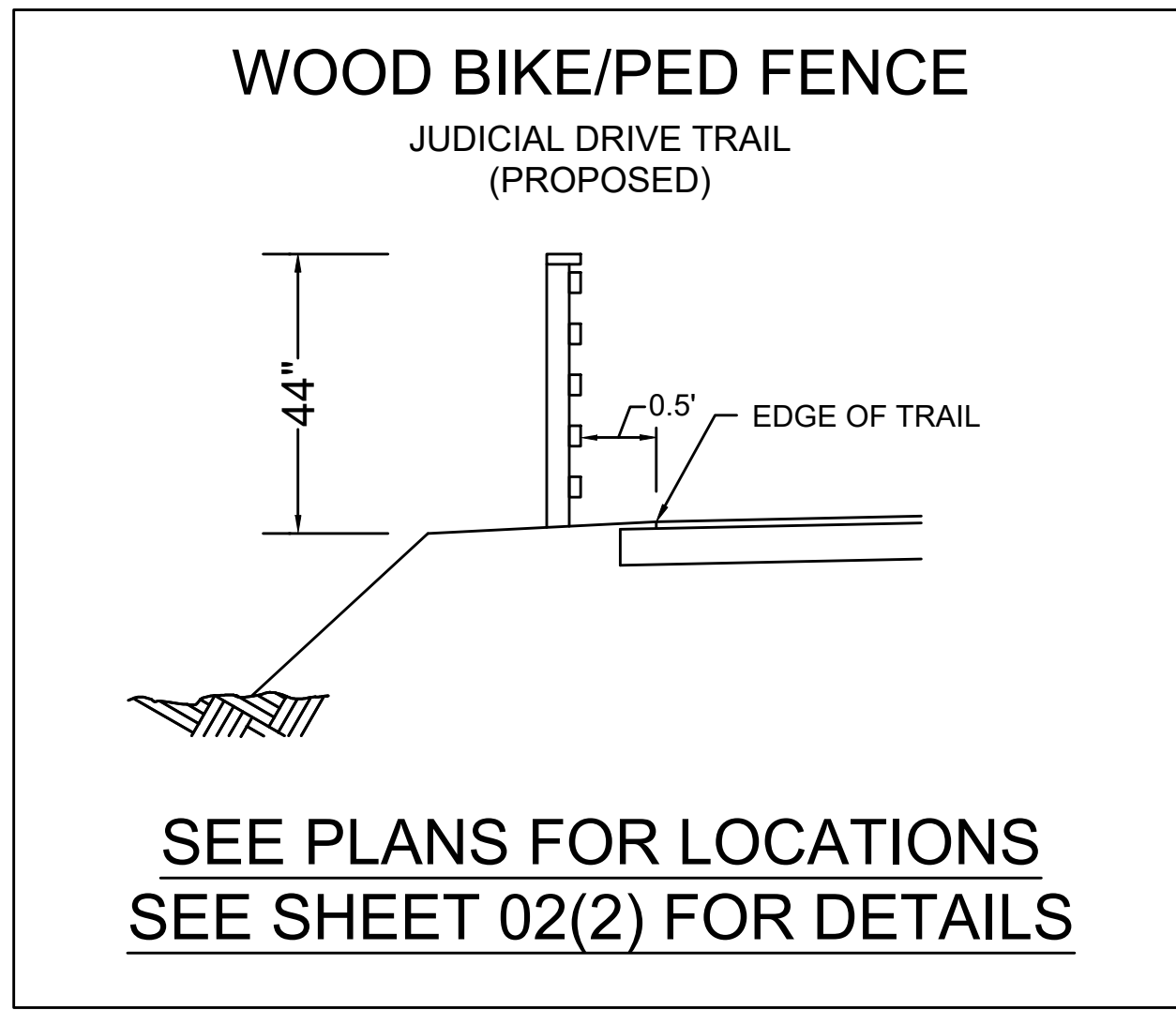
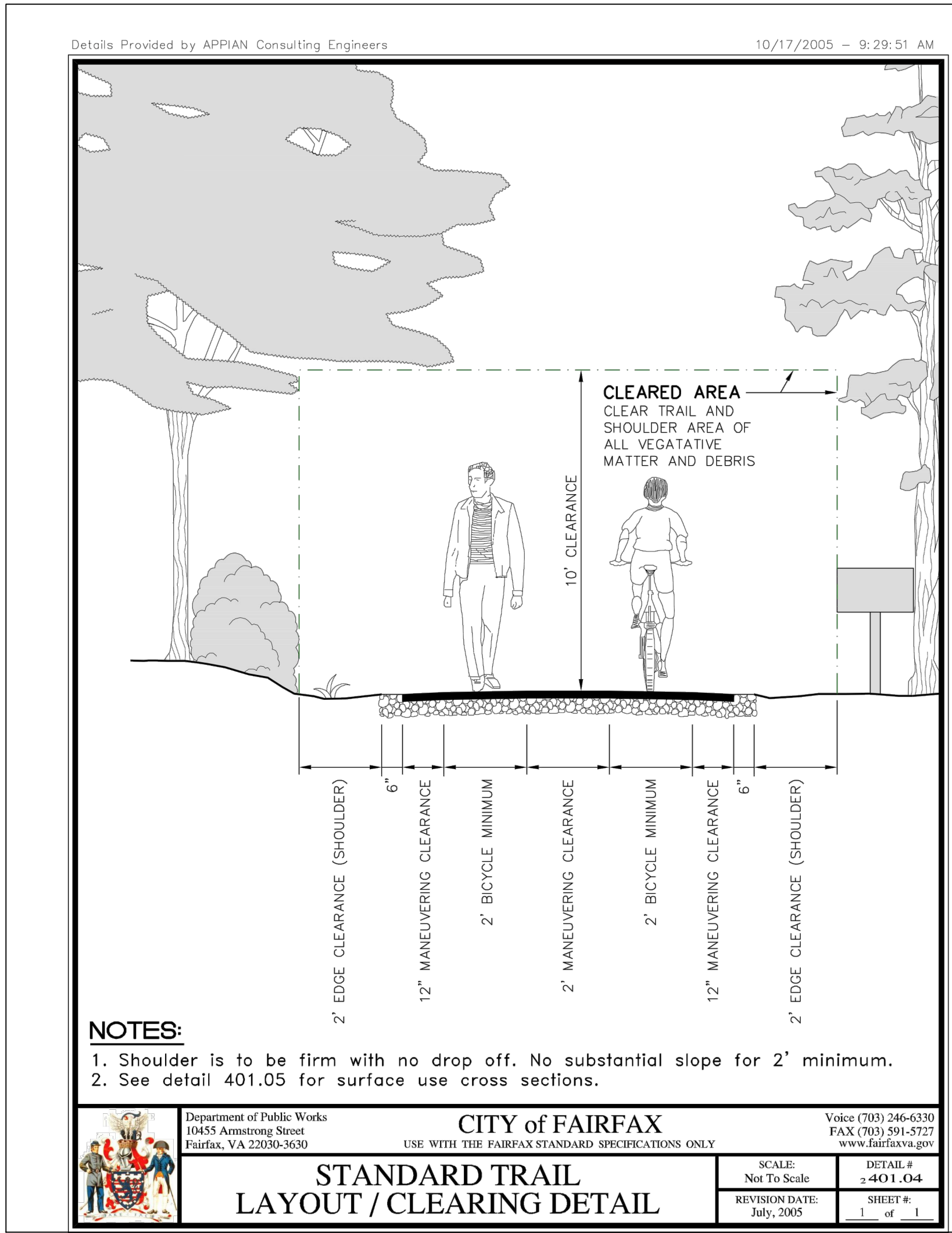
CHECKED BY  
NJS

SCALE  
1" = 25'

REVISION DESCRIPTION

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REVISION DESCRIPTION

DATE

5/17/2023

DRAWN BY  
DJH

DESIGNED BY  
DJH

CHECKED BY  
NJS

SCALE  
1"=25'

**TIMMONS GROUP**

Site Development | Residential | Infrastructure | Technology

**JUDICIAL DRIVE TRAIL**

CITY OF FAIRFAX - VIRGINIA

TYPICAL SECTION AND DETAILS

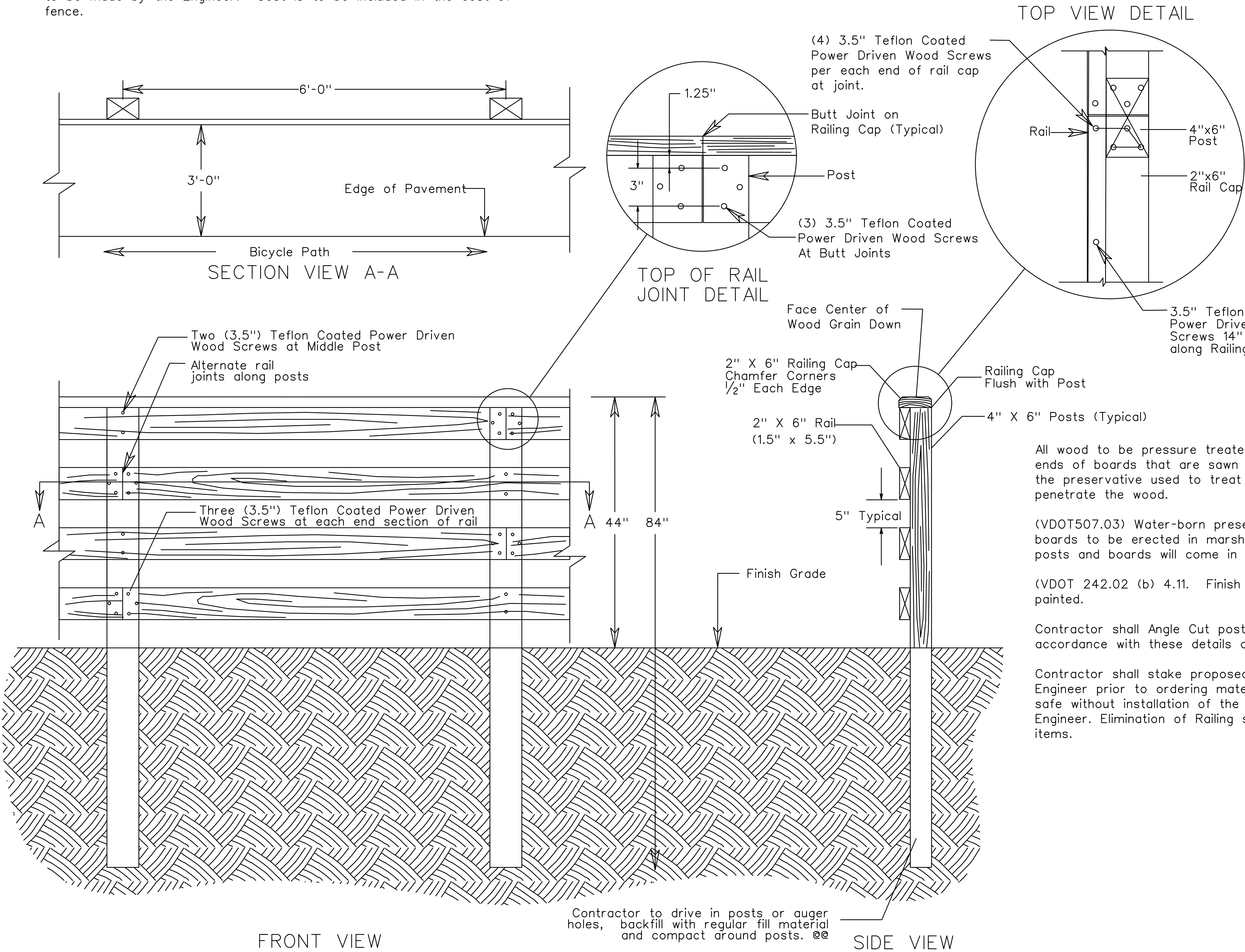
JOB NO.  
41013.006

SHEET NO.  
02(1)

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@@In areas where proposed fence is placed above culverts, it may not be possible to set posts to the depth shown. At these locations, the Contractor is to secure the posts in a manner that achieves post strength comparable to that in other areas. Final determination is to be made by the Engineer. Cost is to be included in the cost of fence.



FRONT VIEW  
SIDE VIEW  
SPECIAL DESIGN WOOD FENCE (BIKE/PED FENCE)  
FOR BICYCLE PATH

NOTES:

Basis of payment: Special Design Fence will be measured in linear feet of fence and will be paid for at the contract unit price complete-in-place. Price is to include furnishing and placing all materials, and all hardware, labor, tools, equipment and incidentals necessary to complete the work as detailed herein.

Lumber sizes purchased may not vary from lumber sizes specified and detailed herein.

NOTES:

Basis of payment: Special Design Fence will be measured in linear feet of fence and will be paid for at the contract unit price complete-in-place. Price is to include furnishing and placing all materials, and all hardware, labor, tools, equipment and incidentals necessary to complete the work as detailed herein.

Lumber sizes purchased may not vary from lumber sizes specified and detailed herein.

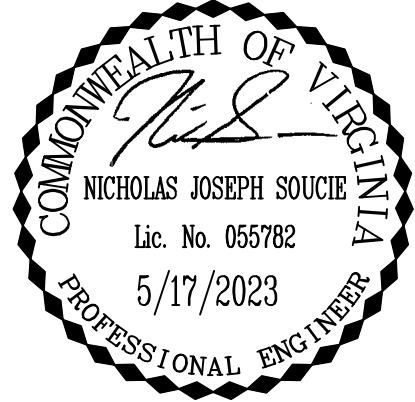
All wood to be pressure treated Southern Pine No. 2 or higher grade. Top of posts and ends of boards that are sawn shall be brush coated with three (3) heavy applications of the preservative used to treat lumber. Each application shall be given sufficient time to penetrate the wood.

(VDOT507.03) Water-born preservatives shall not be used in the treatment of posts and boards to be erected in marshy areas. Oil-borne preservatives shall not be used where posts and boards will come in contact with saltwater.

(VDOT 242.02 (b) 4.11. Finish shall be clear natural wood. Fence shall not be stained or painted.

Contractor shall Angle Cut posts to accommodate all angled intersections of fence rails in accordance with these details and as directed by the Engineer.

Contractor shall stake proposed Safety Rail locations for review and approval by the Engineer prior to ordering materials or installation. Areas reviewed that are deemed to be safe without installation of the railing may be eliminated from the contract by the Engineer. Elimination of Railing shall not be cause for cost adjustment of contract bid items.



<div><div>TIMMONS GROUP</div><div></div></div>		YOUR VISION ACHIEVED THROUGH OURS.	
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Site Development   Residential   Infrastructure   Technology		JUDICIAL DRIVE TRAIL CITY OF FAIRFAX - VIRGINIA	
TYPICAL SECTION AND DETAILS		JOB NO. 41013.006	
SHEET NO. 02(2)		REVISION DESCRIPTION	
		DATE	
		DATE	5/17/2023
		DRAWN BY	DJH
		DESIGNED BY	DJH
		CHECKED BY	NJS
		SCALE	1"=25'



1. A STREET OPENING PERMIT IS REQUIRED FOR ANY WORK IN A CITY RIGHT-OF-WAY OR EASEMENT. THE PERMIT CAN BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT. FOR INFORMATION, CALL 703.385.7980 OR 703.385.7810.
2. ALL SIDEWALKS, CURBS, GUTTERS, DRIVEWAYS, STREETS, STORM PIPES, WATER LINES, SANITARY SEWER, ENDWALLS AND RIP-RAPS MUST BE INSPECTED BY THE CITY. ALL WORK IN THE CITY STREETS WILL BE PERFORMED MONDAY THROUGH FRIDAY, BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. NO WORK IS TO BE PERFORMED ON WEEKENDS OR HOLIDAYS UNLESS PRE-APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
3. INSPECTIONS PERFORMED BY THE FACILITIES INSPECTOR WILL REQUIRE A FOUR-HOUR NOTICE PRIOR TO INSPECTIONS.

1. THE PUBLIC WORKS DIRECTOR MUST BE NOTIFIED ONE WEEK PRIOR TO PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITY AND ONE WEEK PRIOR TO FINAL INSPECTION. THE SITE PLAN COORDINATOR IN COMMUNITY DEVELOPMENT AND PLANNING (703-385-7820) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.
2. A PRECONSTRUCTION MEETING WILL BE REQUIRED THREE DAYS PRIOR TO ANY CONSTRUCTION. CONTRACTORS WILL NOTIFY THE PUBLIC WORKS DEPARTMENT OR FACILITIES INSPECTOR FOR ALL WORK DONE ON SITE AND OFF SITE ONE DAY PRIOR TO STARTING.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR PARKING CONSTRUCTION EQUIPMENT AND PROVIDE EMPLOYEE PARKING ON SITE.
4. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF FAIRFAX STANDARDS, VIRGINIA DEPARTMENT OF TRANSPORTATION AND THE VIRGINIA SEDIMENT & EROSION CONTROL CURRENT SPECIFICATIONS, EXCEPT AS SHOWN OR ALTERED BY THESE PLANS.
5. TRAFFIC SIGNS FOUND TO BE IN THE WAY AT CONSTRUCTION SITES SHALL BE REMOVED OR RELOCATED ONLY BY PERSONNEL IN THE SIGN & SIGNAL CREW OF THE PUBLIC WORKS DEPARTMENT AT THE CONTRACTOR'S REQUEST. ANY CONTRACTOR FOUND RESPONSIBLE FOR MOVING CITY PROPERTY WITHOUT PERMISSION WILL RECEIVE A SUMMONS.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST VERSION OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK, VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS, AND THE GEOTECHNICAL REPORT.
7. PRIVATE FIRE MAINS REQUIRE A PERMIT FROM THE OFFICE OF CODE ADMINISTRATION. PERMIT APPLICATION MUST INCLUDE DETAILS OF INSTALLATION AS SPECIFIED IN NFPA-24. AN APPROVED SITE PLAN IS NOT A PERMIT TO INSTALL FIRE MAINS.
8. AN AS-BUILT PLAN MUST BE SUBMITTED WITHIN 30 DAYS AFTER COMPLETION OF ALL CONSTRUCTION.
9. TEMPORARY STRUCTURES, CONSTRUCTION TRAILERS AND DEMOLITION REQUIRE PERMITS FROM THE OFFICE OF CODE ADMINISTRATION PRIOR TO START OF WORK OR INSTALLATION.
10. ADEQUATE EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. A HARD SURFACE, ALL-WEATHER ROADWAY SHALL BE PROVIDED TO WITHIN 50 FEET OF ALL STRUCTURES AND LOAD LOCATIONS WHERE COMBUSTIBLE MATERIALS ARE STORED.
11. CITY ORDINANCE PERMITS CONSTRUCTION NOISE, INCLUDING EXCAVATION, BETWEEN THE HOURS OF 7:00 AM AND 6:00 PM ON WEEKDAYS AND 8:30 AM AND 5:00 PM ON SATURDAYS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL CONTRACTORS AND SUBCONTRACTORS COMPLY WITH THIS ORDINANCE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH CITY CODE SECTIONS LIMITING GROWTH OF GRASS AND WEEDS TO SIX INCHES IN HEIGHT.

1. ALL SUBGRADE AND SUB-BASE MATERIAL SHALL BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 METHOD A WITHIN PLUS OR MINUS 20% OF OPTIMUM MOISTURE FOR THE FULL WIDTH OF ANY DEDICATED RIGHT-OF-WAY AND ALONG TOWNHOUSE, APARTMENT, CONDOMINIUM, COMMERCIAL, AND INDUSTRIAL PARKING LOTS (INCLUDING STORM SEWER AND SANITARY SEWER).
2. COMPACTION TEST SHALL BE PERFORMED BY THE CONTRACTOR. SUBGRADE FOR CURB, GUTTER, AND SIDEWALK SHALL BE EVERY 50 FEET; SUB-BASE WILL BE ALTERNATED EVERY 25 FEET. DRIVEWAYS REQUIRE TWO TESTS ON SUBGRADE AND SUB-BASE. COPY OF RESULTS IS REQUIRED PRIOR TO PLACING ANY TYPE OF MATERIAL. VTM-1 CORRECTION ALSO MUST BE USED. ALL STRUCTURES REQUIRE TWO TESTS ON SUBGRADE AND SUB-BASE.
3. COMPACTION TESTS FOR ROADWAYS SHALL BE PERFORMED BY THE CITY ONLY, UNLESS APPROVED BY THE PUBLIC WORKS DIRECTORY. COMPACTION TESTS FOR ALL BUILDING PAD ARE TO BE SUBMITTED TO THE OFFICE OF CODE ADMINISTRATION FOR REVIEW AND APPROVAL.
4. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE INSTALLED TO THEIR REQUIRED DISTANCE BEYOND THE RIGHT-OF-WAY.
5. STORM SEWER AND CULVERT PIPE SHALL BE REINFORCED CONCRETE PIPE TO CONFORM TO THE CURRENT AASHTO DESIGNATION M170, UNLESS OTHERWISE DESIGNATED ON THE PLANS. CLASS III PIPE IS PERMITTED BEYOND THE LIMITS OF STREET RIGHTS-OF-WAY. CLASS III PIPE IS REQUIRED WITHIN THE LIMITS OF THE RIGHTS-OF-WAY.
6. ALL CURB AND GUTTER SHOWN ON PLANS AND NOT IN PROFILE SHALL BE ON STRAIGHT TANGENT GRADES. THE CONTRACTOR SHALL ROUND ALL VERTICAL BREAKS WITH SMOOTH SPLINE CURVE.
7. ALL PAVEMENT PLACED ON CITY RIGHT-OF-WAY SHALL HAVE A MIX DESIGN APPROVED PRIOR TO PLACING MATERIAL AND A DENSITY TEST PERFORMED DURING PLACEMENT.
8. STREET SIGNS AND MARKINGS SHALL BE INSTALLED BY THE DEVELOPER AT ALL STREET INTERSECTIONS IN A LOCATION TO BE DETERMINED BY THE DIRECTOR OF PUBLIC WORKS. PRIVATE ACCESS WAYS AND ALLEYS SHALL BE CLEARLY DESIGNATED AS SUCH BY A SIGN AT EVERY ENTRANCE FROM A PUBLIC STREET, STATING "PRIVATE STREET, PRIVATELY OWNED AND PRIVATELY MAINTAINED". ALL STREET MARKINGS AND SIGNAGE WILL CONFORM TO CITY OF FAIRFAX STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL, PER THE STREET SUPERINTENDENT.
9. CBR TEST IS REQUIRED FOR ACTUAL DETERMINATION OF REQUIRED SUB-BASE THICKNESS PRIOR TO CONSTRUCTION. DEPTH OF SUB-BASE IS BASED ON SUBGRADE CBR VALUE OF 10. WHEN CBR VALUE IS LESS THAN 10, ONE INCH OF SUB-BASE OR BASE MATERIAL SHALL BE ADDED FOR EACH POINT BELOW 10 FOR ON-SITE AND OFF-SITE AND SHALL BE REVIEWED BY THE CITY OF FAIRFAX FOR SPECIAL DESIGN.

1. ALL EROSION SILTATION CONTROL TO BE INSTALLED PRIOR TO STARTING PROJECT TO CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL MANUAL.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING THE CITY OF FAIRFAX RIGHTS-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND ALLAY DUST AND TO TAKE WHATEVER MEASURES NECESSARY TO ENSURE THAT THE ROAD IS MAINTAINED IN A CLEAN AND DUST-FREE CONDITION AT ALL TIMES.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN SUCH A MANNER TO PREVENT THE WASHING OF ANY TOPSOIL, SILT, OR DEBRIS ONTO ADJACENT PROPERTIES.
4. IF THE PRESENCE OF ASBESTOS IS SUSPECTED IN THE SOIL, THE CONTRACTOR MUST CONTACT THE CITY OF FAIRFAX PRIOR TO CONTINUING ANY ADDITIONAL WORK.
5. ONSITE STORAGE OF FUEL SHALL BE LIMITED TO DIESEL FUEL TANKS NOT OVER 660 GALLONS CAPACITY. TANKS SHALL BE OF A LISTED TYPE AND SHALL BE PROVIDED WITH APPROVED SECONDARY CONTAINMENT, IMPACT PROTECTION AND PLACARDING. A MINIMUM 2A-400 FIRE EXTINGUISHER SHALL BE PROVIDED IN THE VICINITY OF THE REFUELING AREA. A PERMIT FOR COMBUSTIBLE LIQUID STORAGE SHALL BE OBTAINED FROM THE OFFICE OF CITY ADMINISTRATION, 703.385.7830. FUEL SHALL NOT BE PLACED IN ONSITE STORAGE TANKS UNTIL THE INSTALLATION HAS BEEN INSPECTED AND APPROVED.
6. ONSITE REPAIR OF VEHICLES AND EQUIPMENT SHALL BE LIMITED TO REPLACEMENT OF DAMAGED BELTS, HOSES AND TIRES. ANY SPILL OF FUEL, OIL, HYDRAULIC FLUID OR ANTI-FREEZE GREASER THAN ONE GALLON MUST BE REPORTED TO THE OFFICE OF CITY ADMINISTRATION AT 385-7830. ALL SPILLS MUST BE CLEANED UP PROMPTLY AND IN AN APPROVED MANNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH CITY CODE SECTIONS REGARDING HEALTH AND SAFETY, INCLUDING ACCUMULATIONS OF WATER, STORAGE OF MATERIAL, CONSTRUCTION DEBRIS AND SECURITY OF THE SITE.
8. PRIOR TO THE START OF ANY SITE GRADING WORK, THE CONTRACTOR SHALL PROVIDE THE CITY OF FAIRFAX PUBLIC WORKS FACILITIES INSPECTOR WITH DOCUMENTATION THAT A VSMPP PERMIT HAS BEEN ISSUED BY THE VA DEPARTMENT OF CONSERVATION AND RECREATION. THE VSMPP PERMIT REQUIRES THAT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

1. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE CURRENT EDITIONS OF AND LATEST REVISIONS TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS, CITY OF FAIRFAX DESIGN/CONSTRUCTION STANDARDS, AND ANY OTHER APPLICABLE STATE, FEDERAL OR LOCAL REGULATIONS. IN CASE OF A DISCREPANCY OR CONFLICT BETWEEN THE STANDARDS OR SPECIFICATIONS AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
2. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST US DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND VIRGINIA OCCUPATIONAL SAFETY & HEALTH (VOSH) RULES AND REGULATIONS.
3. WHEN WORKING WITHIN VDOT RIGHT-OF-WAY, ALL TRAFFIC CONTROL, WHETHER PERMANENT OR TEMPORARY, SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF VDOT'S WORK AREA PROTECTION MANUAL. FURTHERMORE, ALL TRAFFIC CONTROL FLAGGERS MUST BE CERTIFIED IN ACCORDANCE WITH SECTION 105.14(c) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING, AT HIS EXPENSE, ANY AND ALL UTILITY INCLUDING TRAFFIC SIGNAL POLES, JUNCTION BOXES, CONTROLLERS, ETC., OWNED BY VDOT OR PRIVATE/PUBLIC UTILITY COMPANIES. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND IDENTIFY UTILITY FACILITIES OR ITEMS THAT MAY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION ACTIVITY. APPROVAL OF THESE PLANS DOES NOT INDEMNIFY THE CONTRACTOR FROM THIS RESPONSIBILITY.
5. DESIGN FEATURES RELATING TO FIELD CONSTRUCTION, REGULATIONS, AND CONTROL OR SAFETY OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY VDOT. ANY ADDITIONAL EXPENSE INCURRED AS A RESULT OF ANY FIELD REVISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. PRIOR TO INITIATION OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY VDOT OR LOCAL LAND USE PERMITS FOR ANY WORK WITHIN RIGHT OF WAY.
7. A PRE-CONSTRUCTION CONFERENCE SHALL BE ARRANGED AND HELD BY THE ENGINEER WITH THE ATTENDANCE OF THE CONTRACTOR, VARIOUS CITY AGENCIES, UTILITY COMPANIES AND VDOT (IF REQUIRED) PRIOR TO INITIATION OF WORK.
8. THE CONTRACTOR SHALL NOTIFY THE CITY WHEN WORK IS TO BEGIN OR CEASE FOR ANY UNDETERMINED LENGTH OF TIME. VDOT OR CITY INSPECTORS REQUIRES AND SHALL RECEIVE 48 HRS ADVANCE NOTICE PRIOR TO ANY REQUIRED OR REQUESTED INSPECTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE ACCESS TO THE PROJECT FROM THE ADJACENT PUBLIC ROADWAY VIA A CONSTRUCTION ENTRANCE THAT IS CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SECTION 3.02 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). FURTHERMORE, ACCESS TO OTHER PROPERTIES AFFECTED BY THIS PROJECT SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL HAVE, WITHIN THE LIMITS OF THE PROJECT, AN EMPLOYEE CERTIFIED BY THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION (VDOR) IN E&S CONTROL WHO SHALL INSPECT EROSION AND SILTATION CONTROL DEVICES AND MEASURES ON A CONTINUOUS BASIS FOR PROPER INSTALLATION AND OPERATION. DEFICIENCIES SHALL BE PROMPTLY RECTIFIED.
10. CONTRACTOR SHALL ENSURE ADEQUATE DRAINAGE IS ACHIEVED AND MAINTAINED ON THE SITE DURING AND AT THE END OF CONSTRUCTION.

STANDARD PB-1. CONTRARY TO THE STANDARD, WHERE ROCK IS ENCOUNTERED AND CAST-IN-PLACE BOX IS PROPOSED, THE THICKNESS OF BEDDING SHALL BE SIX (6) INCHES. WHERE SOFT, YIELDING, OR OTHERWISE UNSUITABLE FOUNDATION IS ENCOUNTERED, THE FOUNDATION DESIGN AND/OR NEED FOR FOUNDATION STABILIZATION SHALL BE DETERMINED BY THE ENGINEER AND APPROVED BY VDOT.

23. APPROVAL OF THESE PLANS SHALL EXPIRE THREE (3) YEARS FROM THE DATE OF THE APPROVAL LETTER.

24. ON STANDARD GUARDRAIL CURB RAMPS SHALL BE INSTALLED WHERE INDICATED ON THESE PLANS AND/OR AS SPECIFIED BY VDOT.

25. VDOT STANDARD GUARDRAIL SHALL BE INSTALLED WHERE WARRANTED AND/OR AS PROPOSED ON THESE PLANS IN ACCORDANCE WITH VDOT'S INSTALLATION CRITERIA. FINAL APPROVAL OF THE GUARDRAIL LAYOUT TO BE GIVEN BY VDOT AFTER GRADING IS MOSTLY COMPLETE.

1. METHODS AND MATERIALS USED SHALL CONFORM TO CURRENT CITY AND VDOT STANDARDS AND SPECIFICATIONS.
2. ALL UTILITIES, INCLUDING ALL POLES, ARE TO BE RELOCATED AT THE CONTRACTORS EXPENSE. COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. OPEN CUTTING OF PAVED OR SURFACE TREATED ROADS IS NOT PERMITTED. ALL UTILITIES WHICH WILL BE PLACED UNDER EXISTING STREETS ARE TO BE BORED OR JACKED. ANY EXCEPTIONS, DUE TO EXTENUATING CIRCUMSTANCES, ARE TO BE ADDRESSED AT THE PERMIT STAGE.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS AND UTILITIES WHICH OCCUR AS A RESULT OF PROJECT CONSTRUCTION WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT OF WAY.
5. A SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO PROPOSED EDGE OF PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND /OR THE PONDING OF ANY WATER IN THE ROADWAY.
6. STANDARD GUARDRAILS AND/OR HANDRAILS SHALL BE INSTALLED AT HAZARDOUS LOCATIONS AS DESIGNATED DURING FIELD REVIEW BY CITY INSPECTOR OR VDOT.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL. THE CONTRACTOR SHALL SUBMIT A SIGNING, STRIPING AND/OR SIGNALIZATION PLAN TO THE VDOT LAND DEVELOPMENT SECTION A MINIMUM OF THIRTY DAYS PRIOR TO PERMIT APPLICATION. THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION OF ANY PAVEMENT COURSE WITHOUT AN APPROVED STRIPING PLAN.
8. CBR TEST SHALL BE PERFORMED PRIOR TO DETERMINATION OF FINAL SUBGRADE ELEVATION. SUBGRADE DEPTH IS BASED ON A CBR VALUE OF SIX (6) UNLESS OTHERWISE NOTED. TEST RESULTS OF SUBGRADE MUST BE SUBMITTED FOR ACTUAL DETERMINATION OF REQUIRED SUBGRADE THICKNESS PRIOR TO CONSTRUCTION. ALL SUBGRADE TO BE COMPACTED TO 95% DENSITY AT 2% OF OPTIMUM MOISTURE CONTENT PER AASHTO-199 METHOD. PAVEMENT DESIGN FOR A PUBLIC ROAD BASED ON THE ACTUAL CBR VALUES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
9. A 4" (MIN.) LAYER OF STONE IS REQUIRED BENEATH CURB AND GUTTER.
10. ADDITIONAL DITCH LININGS OR SILTATION AND EROSION CONTROL MEASURES SHALL BE PROVIDED, AT THE CONTRACTOR'S EXPENSE, AS DETERMINED NECESSARY BY VDOT AND/OR CDR DURING FIELD REVIEW.
11. OVERLAY OF EXISTING PAVEMENT SHALL BE MINIMUM OF 1.5" DEPTH; ANY COSTS ASSOCIATED WITH PAVEMENT OVERLAY, OR THE MILLING OF EXISTING PAVEMENT TO OBTAIN REQUIRED DEPTH, SHALL BE ASSUMED BY THE CONTRACTOR.
12. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF ANY TRAFFIC SIGNAL INSTALLATION OR MODIFICATION WHICH WILL BE NECESSARY AS A RESULT OF DEVELOPMENT OF THIS SITE.
13. ALL RIGHT OF WAY DESIGNATED TO PUBLIC USE SHALL BE CLEAR AND UNENCUMBERED.
14. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL SIDEWALKS WITHIN THE RIGHT OF WAY THAT DO NOT QUALIFY FOR VDOT MAINTENANCE.
15. TRAFFIC CONTROL DEVICES OR ADVISORY SIGNS, SUCH AS MULTIWAY STOPS, SPEED LIMITS, DEAF CHILD, CHILDREN AT PLAY, ETC., SHALL NOT BE INSTALLED UNLESS SPECIFICALLY SHOWN ON THESE PLANS OR A VDOT APPROVED REVISION. SHOULD UNAPPROVED SIGNS BE NOTED AT THE TIME OF VDOT INSPECTION, THE ROAD ACCEPTANCE PROCESS SHALL BE TERMINATED IMMEDIATELY AND NOT RECOMMENDED UNTIL A DETERMINATION IS MADE REGARDING THE APPROVAL OF ANY ADDITIONAL SIGNS. IMMEDIATE REMOVAL OF SUCH SIGNS SHALL NOT NEGATE FOR THE SUBMISSION OF A REVISION.
16. LANDSCAPING AND IRRIGATION SYSTEMS SHALL NOT BE INSTALLED WITHIN THE PUBLIC RIGHT OF WAY EXCEPT AS SHOWN ON THESE PLANS OR A VDOT APPROVED REVISION.

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WHERE APPLICABLE TO THE CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
2. ALL CONCRETE SHALL BE CLASS A3 IF CAST IN PLACE, CLASS A4 IF PRECAST.
3. MANHOLES AND DROP INLETS SHALL BE CONSTRUCTED FROM INVERT TO TOP AS FOLLOWS:
  - A. MANHOLES TO EIGHT FEET DEEP. BLOCK CONSTRUCTION - MINIMUM EIGHT INCH WALLS.
    - POURED IN PLACE CONCRETE - MINIMUM EIGHT INCH WALLS AND NONREINFORCED.
    - PRECAST - MINIMUM EIGHT INCH WALLS IN CONJUNCTION WITH PRECAST THROAT AND PRECAST BASE SLAB.
    - PRECAST.
  - B. MANHOLES OVER EIGHT FEET DEEP.
    - PRECAST.
    - POURED IN PLACE REINFORCED CONCRETE.
    - SPECIAL DESIGN, I.E., BENDS, PRECAST TEES, PRECAST BOXES, WYES.
4. DROP INLETS AND CURB INLETS SHALL HAVE STEPS. THE MAXIMUM DIMENSION FROM FINISH GRADE TO THE FIRST STEP IN THE INLET SHALL NOT EXCEED THREE FEET.
5. UNLESS STATED ON THE APPROVED PLANS, SYMMETRICAL CHANNELS SHALL BE PERFORMED IN THE INVERT OF ALL STRUCTURES ACCORDING TO VDOT STANDARDS IS-1 TO PREVENT STANDING OR PONDING OF WATER.
6. IF BLOCK CONSTRUCTION IS USED, THE INSIDE AND OUTSIDE WALLS, AS THEY ARE LAID, SHALL BE PLASTERED WITH MORTAR A MINIMUM OF 1/2" THICK.
7. ALL PRECAST DROP INLETS, CURB INLETS AND MANHOLES SHALL CONFORM TO ASTM C-478.
8. VDOT INLETS, WHERE PIPE SIZE IS LARGER THAN 48 INCHES I.D., REQUIRE A SPECIAL DESIGN. IN CASE OF SPECIAL DESIGN INLETS THAT DEViate FROM THE STANDARD, THE PRECAST MANUFACTURER OR DESIGN ENGINEER MUST SUBMIT FIVE COPIES OF DETAIL DRAWINGS TO VDOT FOR PROPER APPROVAL.
9. THE OPENING IN PRECAST STORM SEWER STRUCTURES FOR ALL SIZE PIPE SHALL BE A MINIMUM OF FOUR INCHES AND A MAXIMUM OF SIX INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE.
10. THE "H" DIMENSIONS SHOWN ON THE STANDARDS AND SPECIFIED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF OUTFALL PIPE TO THE TOP OF THE STRUCTURE.
11. TWO (2) INCH DEEP HOLES SHALL BE PROVIDED IN ENDWALL WHERE DIRECTED BY THE INSPECTOR.
12. ALL PIPES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
13. ALL FILL BENEATH SEWER PIPES AND WATERLINES IS TO BE CONTROLLED FILL OR BETTER. CONTROLLED FILLS MUST BE COMPACTED TO 100% DENSITY AS DETERMINED

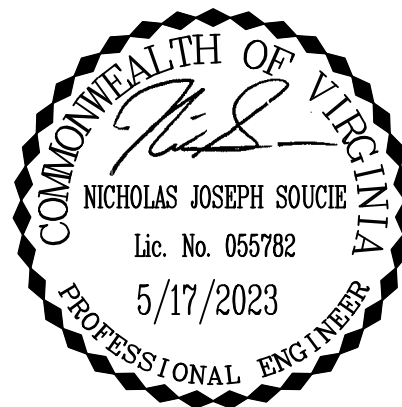
MATERIAL NOTES:

1. ALL CONCRETE PIPE SHALL BE CLASS III OR AS NOTED ON THE PLANS, REFER TO VDOT SPECIFICATIONS. REFER TO VDOT STD. PB-1 FOR BEDDING DETAILS.
2. ALL WATERLINES LARGER THAN 4" SHALL BE DIP CLASS 52 OR AS REQUIRED BY FARIAX WATER.
3. ALL WATER SERVICE PIPE LESS THAN 4" FOR CONNECTION FROM THE MAIN TO THE METER SHALL BE TYPE "K" COOPER OR AS REQUIRED PER FARIAX WATER.
4. ALL WATER MAINS SHALL BE WATER TIGHT CONSTRUCTION AND TESTED IN PLACE PER VIRGINIA WATERWORKS REGULATIONS 12 VAC 5-590-1150. TESTED, PAGE 146, DATED NOVEMBER 15, 1995.

1. A PEDESTRIAN BRIDGE IS PROPOSED TO BE INSTALLED WITH THIS PROJECT. THE DESIGN, FABRICATION, CONSTRUCTION, INSTALLATION, AND CONNECTION OF THE BRIDGE IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SUBMIT DESIGN CONCEPT DRAWINGS, AS WELL AS SHOP DRAWINGS AND CONSTRUCTION DETAILS TO THE CITY OF FAIRFAX AND THE ENGINEER, FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS OR BEGINNING FABRICATION, CONSTRUCTION, INSTALLATION OF THE BRIDGE.
2. THE BRIDGE IS TO BE APPROXIMATELY 100 FEET IN LENGTH. IT TO BE FINALIZED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. THE WIDTH SHALL BE AS SHOWN ON THE PLAN.
3. THE BRIDGE DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS:
  - 3.1. ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017; AND VDOT MODIFICATIONS
  - 3.2. ASHTO LRFD GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES
  - 3.3. VDOT MANUAL OF THE STRUCTURE AND BRIDGE DIVISION
  - 3.4. ALL APPLICABLE SECTIONS OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS, VDOT ROAD AND BRIDGE STANDARDS, AND ALL APPLICABLE VDOT INSTRUCTIONAL AND INFORMATIONAL MEMORANDA.

1. ALL WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF FAIRFAX STANDARDS AND SPECIFICATIONS.
2. EASEMENTS FOR ALL SANITARY AND WATER MAINS SHALL BE 10' UNLESS OTHERWISE NOTED.
3. SANITARY SEWERS AND WATER MAINS SHALL MAINTAIN A MINIMUM OF 15' HORIZONTAL SEPARATION FROM PROPOSED OR EXISTING BUILDINGS.
4. NO LANDSCAPING OR OTHER UTILITIES (I.E. GAS, PHONE, CABLE, ETC.) ARE PERMITTED IN THE WATER AND SEWER EASEMENTS, EXCEPT AT CROSSINGS.
5. CONTRACTOR SHALL REQUEST PRE-CONSTRUCTION MEETING AND INSPECTION BY THE CITY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS (703.385.7810) THREE DAYS PRIOR TO COMMENCING CONSTRUCTION OF ANY WATER AND SEWER MAINS.
6. A PERMIT FOR INSTALLATION OF SANITARY SEWERS, FIRE HYDRANTS AND WATER MAINS SHALL BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS.
7. PRIOR TO ANY WATER MAIN INSTALLATION, ALL REQUIRED SANITARY SEWERS, INCLUDING LATERALS, AND STORM SEWERS MUST BE INSTALLED AND BACKFILLED TO 95% COMPACTION.
8. WATER AND SEWER LATERALS NOT WITHIN AN EASEMENT REQUIRE PLUMBING PERMITS AND INSPECTIONS FROM THE OFFICE OF CODE ADMINISTRATION. THE INCLUSION OF THESE ITEMS DOES NOT CONSTITUTE A WARRANTY.
9. FINISH ELEVATIONS FROM THE CITY OF FAIRFAX DEPARTMENT OF UTILITIES IS CONTINGENT UPON RECEIPT BY THE DEPARTMENT OF PLANS SHOWING THE LOCATION OF ALL PROPOSED UTILITIES. ALL PROPOSED UTILITIES ARE TO BE LOCATED OUT OF THE WATER OR SEWER EASEMENTS, EXCEPT FOR CROSSINGS.

NOTE: ALL PROPOSED MANHOLES, JUNCTION BOX COVERS, OR OTHER UTILITY COVERS, CAPS, AND LIDS SHALL BE ADA COMPLIANT WITHIN THE PROPOSED PROJECT LIMITS.

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EROSION & SEDIMENT CONTROL NOTES

PROJECT DESCRIPTION

THE CITY OF FAIRFAX PROPOSES TO CONSTRUCT A TRAIL ALONG ACCOTINK CREEK IN THE CITY OF FAIRFAX. THIS TRAIL WILL CONNECT TWO ADJACENT TRAILS AND PROVIDE A CONTINUOUS PEDESTRIAN PATH ALONG THE CREEK. PORTIONS OF THE PROPOSED PROJECT SITE ARE LOCATED WITHIN THE 100-YEAR FLOODPLAIN, AND THIS PROJECT INCLUDES THE CONSTRUCTION OF A PEDESTRIAN BRIDGE CROSSING OVER A TRIBUTARY STREAM TO ACCOTINK CREEK. THE TOTAL DISTURBED AREA FOR THE PROJECT IS 0.25 ACRES.

EXISTING SITE CONDITIONS:

THE SITE IS LOCATED IN A FORESTED AREA CONSISTING OF MATURE TREES. THE EXISTING TOPOGRAPHY CONSISTS OF STEEP SLOPES THAT DRAIN TOWARDS ACCOTINK CREEK. PORTIONS OF THE SITE ARE LOCATED WITHIN THE 100-YEAR FLOODPLAIN.

ADJACENT PROPERTY:

THE SITE IS LOCATED WEST OF JUDICIAL DRIVE AND EAST OF PRESBYTERIAN WAY IN THE CITY OF FAIRFAX. THE PROPERTIES SURROUNDING THE PROJECT SITE AND ACCOTINK CREEK ARE PRIMARILY COMMERCIAL.

SOILS:

REFER TO THE GEOTECHNICAL REPORT, PREPARED BY OTHERS, FOR THE SOILS MAP AND SUMMARY OF SOIL TYPES ON THE PROJECT SITE.

OFF-SITE AREAS:

NO OFF-SITE LAND DISTURBING ACTIVITIES ARE PROPOSED TO OCCUR DURING OR ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES PROPOSED WITH THIS PLAN. THE NEED FOR OFF-SITE BORROW/STOCKPILE AREAS IS NOT ANTICIPATED FOR THIS PROJECT. SHOULD OFFSITE BORROW/STOCKPILE AREAS BE REQUIRED TO IMPORT/EXPORT MATERIAL FOR THIS PROJECT, THE OFFSITE AREA MUST HAVE A CURRENT APPROVED E&S PLAN AND PERMIT PRIOR TO CONSTRUCTION. PROOF OF THE APPROVED E&S PLAN AND PERMIT MUST BE PROVIDED TO THE CITY OF FAIRFAX PRIOR TO IMPORT/EXPORT OF MATERIAL.

CRITICAL EROSION AREAS:

CRITICAL EROSION AREAS ARE TYPICALLY CENTERED AROUND ACCOTINK CREEK. UNDER NO CIRCUMSTANCES IS STORMWATER RUNOFF TO REACH ACCOTINK CREEK WITHOUT FLOWING THROUGH AN APPROVED E&S DEVICE. THE CONTRACTOR SHALL ALSO KEEP THE ADJACENT PARKING LOT AND TRAVELWAYS FREE OF SEDIMENT AND DEBRIS.

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE INSTALLED AS A SINGLE-PHASE OPERATION.

EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION:

- SCHEDULE A PRECONSTRUCTION MEETING, GIVE A 48-HOUR NOTIFICATION OF THE PRECONSTRUCTION MEETING AND A CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) MUST BE PRESENT AT THE MEETING.VSMP OPERATIVE SHALL ATTEND THE PRECONSTRUCTION MEETING.
- PROVIDE MINIMAL CLEARING TO INSTALL SILT FENCE AND SAFETY FENCE AS SHOWN ON THE PLANS. TAKE SPECIAL CARE TO KEEP SOIL BUILD-UP FROM ENTERING THE EXISTING ROAD AND PARKING LOT PAVEMENT.
- THE CONTRACTOR WILL NOTIFY THE CITY INSPECTOR AT THE PRE-CONSTRUCTION MEETING OF THE PERMITTED LOCATION EXCESS SOIL MATERIAL IS HAULED TO OR BORROW MATERIAL IS BROUGHT IN FROM.
- MAINTAIN ALL REQUIRED MAINTENANCE OF ACCESS MEASURES ALONG JUDICIAL DRIVE AS NECESSARY TO PROVIDE CONSTRUCTION ACCESS ALONG EXISTING GRAVEL TRAIL TO THE EAST OF THE PROJECT LIMITS.
- CLEAR AND GRUB AS INDICATED IN THE PLANS. MAINTAIN ACCESS ALONG EXISTING ROADS AND PARKING LOTS AT ALL TIMES.
- TEMPORARY GRADING AND SEEDING IS REQUIRED WITHIN 7 DAYS OF DISTURBANCE FOR ALL AREAS WHICH ARE NOT TO BE ACTIVELY CONSTRUCTED UPON WITHIN 14 DAYS OF INITIAL DISTURBANCE.
- INSPECTIONS AND APPROVALS FOR COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL ACTIVITIES MUST BE RECEIVED BEFORE FURTHER CONSTRUCTION ACTIVITIES CAN BEGIN. ALL APPROVALS SHALL BE FROM THE CITY OF FAIRFAX.
- COMMENCE ROUGH GRADING AS REQUIRED FOR PROPOSED TRAIL.
- THE SITE SHALL BE PERMANENTLY STABILIZED AFTER ALL GRADING HAS BEEN COMPLETED BY SEEDING ALL DENUDED AREAS.
- INSTALL STONE BASE FOR TRAIL, AND INSTALL TOP LAYER OF STONE DUST ONCE FINAL GRADES ARE REACHED.
- UPON CONSTRUCTION COMPLETION, THE CONTRACTOR MUST CONTACT THE CITY OF FAIRFAX FOR EROSION CONTROL INSPECTION OF SLOPE STABILITY. EROSION CONTROL MEASURES MAY NOT BE REMOVED WITHOUT AUTHORIZATION BY THE CITY INSPECTOR.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUESTED BY THE CITY OF FAIRFAX AND/OR THE INSPECTOR AT ANY TIME DURING LAND DISTURBANCE.

ADDITIONAL NOTE: FIELD ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR TO THE E&S PLAN AS REQUIRED, ESPECIALLY REGARDING THE AREA NEAR THE PROPOSED PEDESTRIAN BRIDGE. E&S MEASURES MAY VARY DEPENDING ON THE DESIGN, FABRICATION, AND INSTALLATION TECHNIQUES AS SELECTED BY THE CONTRACTOR. ADDITIONAL E&S MEASURES MAY BE REQUIRED.

MINIMUM STANDARDS

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

- MS-1.

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- MS-2.

DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- MS-3.

A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- MS-4.

SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- MS-5.

STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- MS-6.

SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.

A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.

B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- MS-7.

CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- MS-8.

CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- MS-9.

WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- MS-10.

ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- MS-11.

BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- MS-12.

WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- MS-13.

WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- MS-14.

ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- MS-15.

THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- MS-16.

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

A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.

D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.

E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- MINIMUM STANDARDS (continued)
- MS-17.

WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

MS-18.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

MS-19.

PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA;

A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSIS AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

1. THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION.

2. NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR FREQUENCY STORM TO VERIFY THAT THE STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.

3. ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

4. PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT THE STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:

1. IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR FREQUENCY STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR FREQUENCY STORM WILL NOT CAUSE EROSION TO THE CHANNEL, BED OR BANKS; OR

2. IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR FREQUENCY STORM IS CONTAINED WITHIN THE APPURTENANCES; OR

3. DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL.

4. PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION/RETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.

D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.

E. ALL HYDROLOGICAL ANALYSIS SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.

F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION/RETENTION, HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

G. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL OR DETENTION FACILITY.

H. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS IN A RESIDENTIAL SUBDIVISION DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE RESIDENTIAL SUBDIVISION DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE SUBDIVISION DEVELOPMENT SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

I. PROPOSED COMMERCIAL OR INDUSTRIAL SUBDIVISIONS SHALL APPLY THESE STORMWATER MANAGEMENT CRITERIA TO THE DEVELOPMENT AS A WHOLE, HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE SUBDIVISION DEVELOPMENT SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

EROSION & SEDIMENT CONTROL QUANTITIES

TEMPORARY SILT FENCE (TYPE B)	1,420 LF
TEMPORARY SAFETY FENCE	450 LF
CULVERT INLET PROTECTION	1 EA.
CULVERT OUTLET PROTECTION	5 TONS
LIMITS OF DISTURBANCE	0.25 AC
SILTATION CONTROL EXCAVATION	50 CY
TEMPORARY SEEDING	0.14 AC
PERMANENT SEEDING	0.14 AC

NOTE:

- CONTRACTOR MUST KEEP EXISTING ROADS, PARKING LOTS, AND TRAVELWAYS FREE FROM BUILDUP OF SOIL.
  - THE CONTRACTOR MUST DETERMINE A STOCKPILE AREA (IF REQUIRED). IF AREA IS OUTSIDE THE LIMITS OF DISTURBANCE AS SHOWN IN THESE PLANS, THE LOCATION MUST BE SUBMITTED TO AND APPROVED BY THE CITY OF FAIRFAX PRIOR TO CONSTRUCTION.

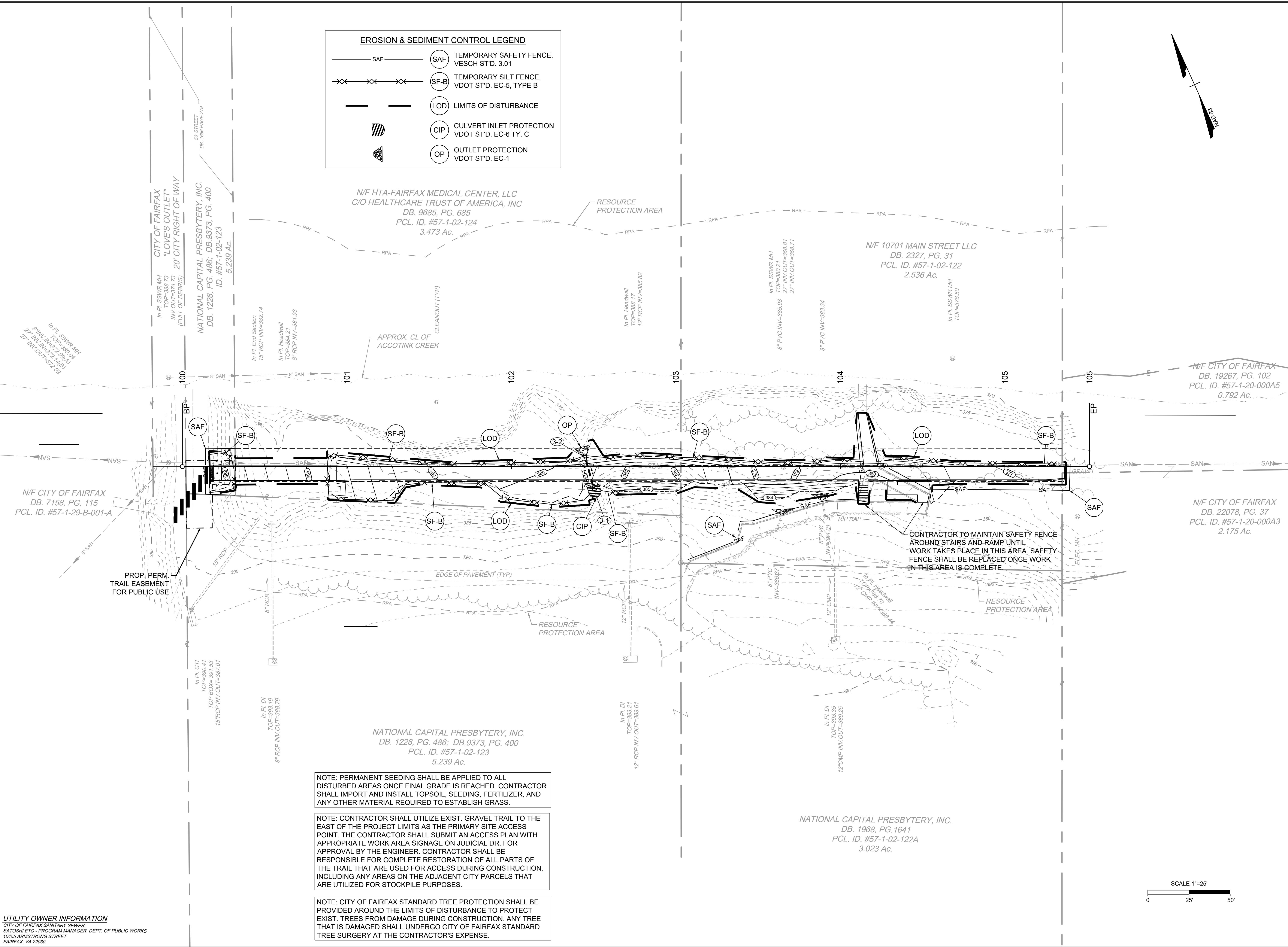
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N.T.S.						
Site Development   Residential   Infrastructure   Technology		JUDICIAL DRIVE TRAIL			CITY OF FAIRFAX - VIRGINIA	
EROSION AND SEDIMENT CONTROL NOTES						
JOB NO.		41013.006			SHEET NO.	
		02B				

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UTILITY OWNER INFORMATION  
CITY OF FAIRFAX SANITARY SEWER  
SATOSHI ETO - PROGRAM MANAGER, DEPT. OF PUBLIC WORKS  
10455 ARMSTRONG STREET  
FAIRFAX, VA 22030



NOTE: PERMANENT SEEDING SHALL BE APPLIED TO ALL DISTURBED AREAS ONCE FINAL GRADE IS REACHED. CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL, SEEDING, FERTILIZER, AND ANY OTHER MATERIAL REQUIRED TO ESTABLISH GRASS.

NOTE: CONTRACTOR SHALL UTILIZE EXIST. GRAVEL TRAIL TO THE EAST OF THE PROJECT LIMITS AS THE PRIMARY SITE ACCESS POINT. THE CONTRACTOR SHALL SUBMIT AN ACCESS PLAN WITH APPROPRIATE WORK AREA SIGNAGE ON JUDICIAL DR. FOR APPROVAL BY THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE RESTORATION OF ALL PARTS OF THE TRAIL THAT ARE USED FOR ACCESS DURING CONSTRUCTION, INCLUDING ANY AREAS ON THE ADJACENT CITY PARCELS THAT ARE UTILIZED FOR STOCKPILE PURPOSES.

NOTE: CITY OF FAIRFAX STANDARD TREE PROTECTION SHALL BE PROVIDED AROUND THE LIMITS OF DISTURBANCE TO PROTECT EXIST. TREES FROM DAMAGE DURING CONSTRUCTION. ANY TREE THAT IS DAMAGED SHALL UNDERGO CITY OF FAIRFAX STANDARD TREE SURGERY AT THE CONTRACTOR'S EXPENSE.

COMMONWEALTH OF VIRGINIA

NICHOLAS JOSEPH SOUCIE

Lic. No. 056782

5/17/2023

PROFESSIONAL ENGINEER

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5/17/2023

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DESIGNED BY

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CHECKED BY

NJS

SCALE

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Site Development

Residential

Infrastructure

Technology

JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

EROSION AND SEDIMENT CONTROL PLAN

JOB NO.

41013.006

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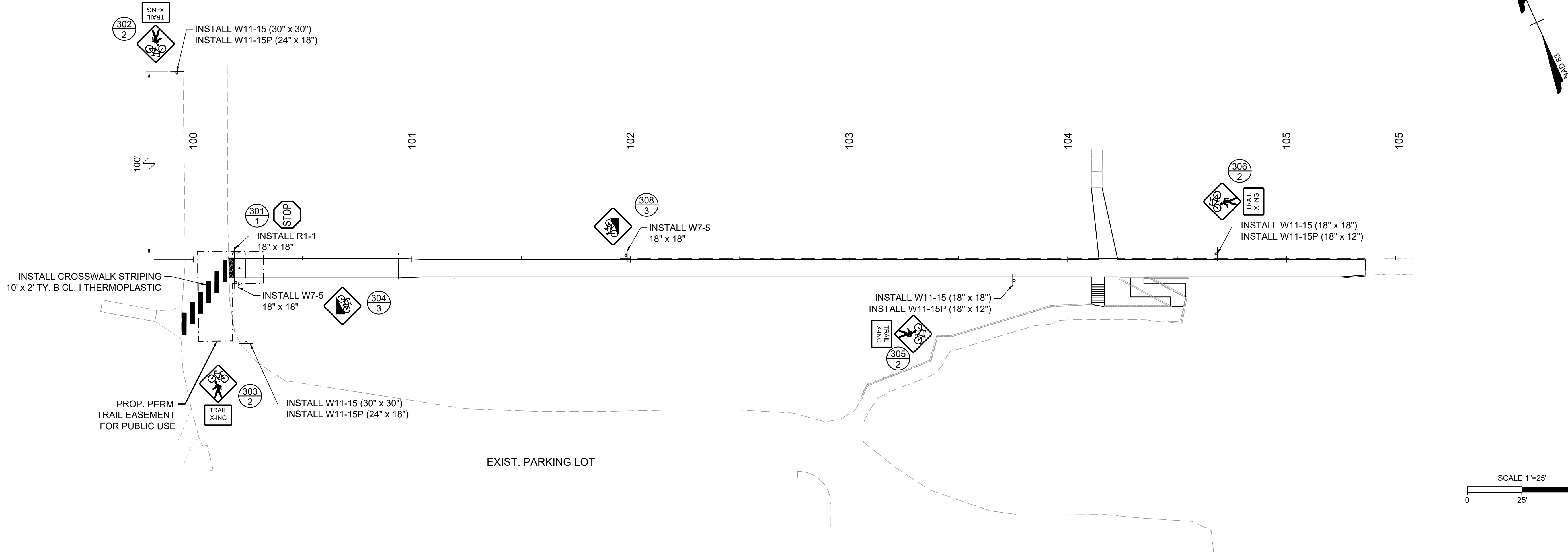
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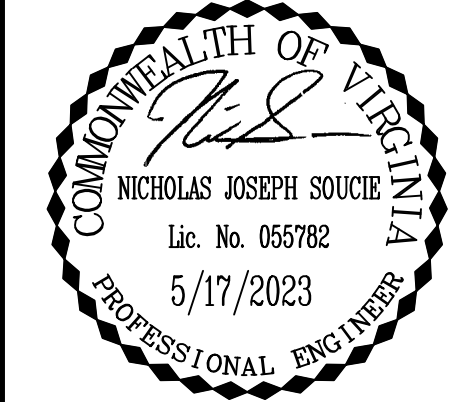
PAVEMENT MARKING AND SIGNING NOTES

- ALL SIGNING AND PAVEMENT MARKING WORK SHALL BE IN CONFORMANCE WITH THE FOLLOWING DOCUMENTS:
  - 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), REVISION 1 AND 2
  - 2011 VIRGINIA SUPPLEMENT TO THE 2009 MUTCD, REVISION 1
  - 2016 VDOT ROAD AND BRIDGE STANDARDS
  - 2016 VDOT ROAD AND BRIDGE SPECIFICATIONSAND ALL PROVISIONS IN EFFECT AT THE TIME THE PLANS ARE APPROVED
- UNLESS OTHERWISE APPROVED BY THE ENGINEER OR INDICATED IN THE MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION PLANS. EXISTING TRAFFIC SIGNS WHICH ARE TO BE REMOVED/RELOCATED SHALL REMAIN IN PLACE UNTIL THE NEW SIGN STRUCTURE IS IN PLACE.
- THE REMOVAL, RELOCATION, OR MODIFICATION OF EXISTING SIGN PANELS, STRUCTURES, OR FOUNDATIONS SHALL CONFORM TO SECTION 510 OF THE SPECIFICATIONS.
- ALL EXISTING AND PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL PROPOSED SIGN LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- PAVEMENT MARKINGS SHALL BE SPOTTED (USING CHALK OR APPROVED EQUAL) AND FIELD VERIFIED BY VDOT OR THE ENGINEER PRIOR TO APPLYING THE THERMOPLASTIC MARKINGS.
- ALL PERMANENT MARKINGS SHALL BE TYPE B, CLASS I UNLESS OTHERWISE DIRECTED BY VDOT TRAFFIC ENGINEERING.
- ALL PAVEMENT MARKINGS MUST HAVE A PERSON WITH A PAVEMENT MARKING CERTIFICATION ISSUED BY THE VDOT MATERIALS DIVISION ON SITE DURING PAVEMENT MARKING OPERATIONS.
- FOR ALL PROPOSED SIGNS LOCATED ON PRESBYTERIAN WAY, THE BOTTOM OF SIGN HEIGHT MUST BE AT LEAST 7' ABOVE GROUND AT EP. FOR ALL PROPOSED SIGNS LOCATED ON THE PROPOSED JUDICIAL DRIVE TRAIL, THE BOTTOM OF SIGN HEIGHT MUST BE AT LEAST 4' ABOVE GROUND AT EP. ALL SIGNS SHALL BE VISIBLE ABOVE PROP. SAFETY FENCE. EDGE OF SIGNS SHALL BE PLACED AT 2' OFFSET FROM EP.
- ALL REPLACED OR RELOCATED SIGNS SHALL BE INSTALLED AS **NEW** SIGNS. EXISTING SIGNS SHALL NOT BE RE-USED.
- ALL SIGNS SHALL BE ORIENTED AS SHOWN ON THE PLANS.
- SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
- ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
- ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
- SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN S'T'D.
- ALL S'T'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
- EXISTING SIGNS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.
- NEW MATERIALS AND ITEMS REQUIRED TO COMPLETE THE REMOVAL OR MODIFICATION OF EXISTING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 105 OF THE SPECIFICATIONS.

	PROP. GROUND MOUNTED SIGN STRUCTURE		SIGN ASSEMBLY NO. TEXT NO.
	EX. GROUND MOUNTED SIGN STRUCTURE		STRUCTURE TYPE ACTION DESCRIPTION
	PROP. SIGN PANEL	G = REMOVE AND DISPOSE OF SIGN STRUCTURE Measured in units of each and included in lump sum contract price. Includes removal and disposal of sign panels, posts and foundations to at least two feet below existing ground line, backfilling and restoration (topsoiling and seeding), and for all materials, labor, tools, equipment, and incidentals necessary to complete the work.	
	EX. SIGN PANEL		

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (s.f.)		PROP. SIGN STRUCTURE S'T'D.	REMARKS
			MUTCD S'T'D.	W	H	QTY.	per ASSEMBLY	ALL ASSEMBLIES	
1	301		R1-1	18"	18"	1	2.25	2.25	STP-1
2	302, 303, 305, 306		W11-15	30"	30"	2	6.25	12.50	STP-1
				18"	18"	2	2.25	4.50	STP-1
			R13-17aP	24"	18"	2	3.00	6.00	STP-1
				18"	12"	2	1.50	3.00	STP-1

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (s.f.)		PROP. SIGN STRUCTURE S'T'D.	REMARKS
			MUTCD S'T'D.	W	H	QTY.	per ASSEMBLY	ALL ASSEMBLIES	
3	304, 308		W7-5	18"	18"	2	2.25	4.50	STP-1



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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD (as defined in the latest IIM 242) will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents)for the land disturbance (construction) activity.

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

I further certify that this document and all other documents related to the SWPPP, as identified on the SWPPP General Information Sheets, are maintained at the activity site, or at a location convenient to the activity site where no on-site facilities are available, and such documents will be made available for review upon request in accordance with the provisions of the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when applicable . Where the SWPPP documents are not stored on-site, a copy of such documents shall be in the possession of those with day to day operational control over the implementation of the SWPPP whenever they are on site.

Signature: \_\_\_\_\_ or \*\* Delegated Authority Signature

Printed Name: \_\_\_\_\_

Date:\_\_\_\_\_

(1) See Section 1, Item 11 relating to delegation of authority, and form LD-445H (Delegation of Authority).

ACRONYMS

CBPA - Chesapeake Bay Preservation Act  
BMP - Best Management Practice  
DEQ - Department of Environmental Quality  
EPA - U.S. Environmental Protection Agency  
ESC - Erosion and Sediment Control  
IIM - Instructional and Informational Memorandum  
R&B - Road and Bridge  
RLD - Responsible Land Disturber

SWPPP - Stormwater Pollution Prevention Plan  
TMDL - Total Maximum Daily Load  
VDOT - Virginia Department of Transportation  
VPDES - Virginia Pollutant Discharge Elimination System  
VSMP - Virginia Stormwater Management Program  
VESCP - Virginia Erosion and Sediment Control Program  
WLA - Waste Load Allocation  
SWM - Stormwater Management

SECTION I GENERAL INFORMATION

1. Activity Description - The City of Fairfax proposes to construct a trail along Accotink Creek within City limits. This trail will connect two adjacent trails and provide a continuous pedestrian path along the creek. Portions on the proposed project site are located within the 100-year floodplain. This project includes the construction of a pedestrian bridge crossing over a tributary stream to Accotink Creek. The total disturbed area for the project is 0.25 acres.
2. This land disturbance (construction) activity site is located in the City of Fairfax and approximately 0.25 acres will be disturbed by excavation, grading or other construction activities.

3. This proposed activity disturbs less than one acre and is exempt from coverage under the VPDES General Permit for Discharges of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ.

- XX 4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

- XX 5. Written Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form of the Construction General Permit coverage letter (List VPDES Permit \*):

6. List the surface waters that have been identified as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, Nitrogen or Phosphorus. These pollutants are considered benthic impairments: None

7. Identify the TMDL's where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2016 for sediment, total suspended solids, turbidity, nitrogen or phosphorus: Pollutant: Sediment. TMDL: 1.328 tons/day (construction).

8. This land disturbance activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code: N/A.

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Approved Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. List the RLD and other responsible parties for the land disturbance activity: (required for erosion and sediment control). The following individual(s) have "delegated authority" to sign all reports required by the construction permit including the SWPPP General Information Sheets and Inspection Reports (C-107). Reference form LD-445H for delegation of authority (form 445H for the project is hereby incorporated by reference into this SWPPP). These individual(s) has/have overall responsibility or the environmental matters for the project: (required only for permitted projects):

Name	Position	Responsibility
	RLD	Certify the SWPPP (with date & sig.)
	Certified Inspector	Sign (C-107) Inspection Form Part 1
	Certified Inspector	Sign (C-107) Inspection Form Part 2

- X 12. The name of the VDOT individual(s) responsible for the oversight inspection in accordance with IIM-LD-256 on these land disturbance construction activities as identified on these SWPPP General Information Sheets. The names will be updated and maintained with the other SWPPP documents for this land disturbance activity.

City of Fairfax Individuals	Position	Responsibility
Satoshi Eto	City SWM Engineer	City of Fairfax Stormwater Engineer responsible for the oversight review & approval of ESC & SWM plan modification(s).

- X 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule \*2 is used, void note \*14) as defined in 2016 R&B Specifications except for Section 107.16(e) 4.an Inspection Requirements Rain gauge notes apply only to Inspection Schedule 1.

- XX 14. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance activity: (List location of rain gage).

The rain gage shall be observed daily at " " to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage. If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage. If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

15. The following VDOT documents are applicable to a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 S.F. to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:

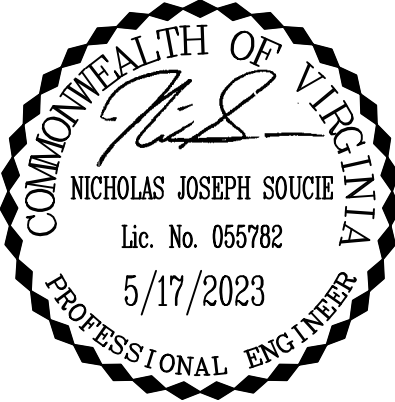
VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP and ESC projects > 10,000 s.f. but <1 acre.  
VDOT LD-445A: Permitted projects only.  
VDOT LD-445C: Projects that require a permit, ESC Plan, or SWPPP.  
VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.  
VDOT LD-445F: Emergency work projects (when applicable).  
Water Quality Requirement (when applicable)  
VDOT LD-445H: Permitted projects only.  
VDOT C-107 Part I and Part II. All projects that require a permit or SWPPP.  
VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive loading of sediment from the project (i.e. more than to be expected from the project with an implemented ESC plan) that is discovered within a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, (see note \*7) the contractor shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permits approved standards and specifications required by Part I.B of the current Construction General Permit. If corrective action is necessary, the contractor shall initiate corrective actions no later than 5 business days after the initial investigation.

17. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the contractor is discovered discharging into a MS-4, the contractor shall notify the municipality with jurisdiction over erosion and sediment control activities.

X Denotes information that is to be provided/completed by the RLD.  
XX Denotes information that is to be provided/completed by the contractor.

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REVISION DESCRIPTION

DATE					
5/17/2023					
DRAWN BY	DJH				
DESIGNED BY	DJH				
CHECKED BY	NJS				
SCALE	N.T.S.				

Site Development | Residential | Infrastructure | Technology

JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

STORMWATER POLLUTION PREVENTION PLAN

JOB NO.

41013.006

SHEET NO.

02E(1)

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SECTION II EROSION AND SEDIMENT CONTROL

- XX1. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with the current edition of Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.
2. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
3. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
4. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
5. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
6. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section IV.
- XX7. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity: (List how this will be tracked and the location)
8. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in the current edition of Sections 107.16 and 303.03 of the VDOT R&B Specifications.
9. Nutrients shall be applied in accordance with the current edition of Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events. Top soil shall be applied in accordance with the current edition of section 602 of the latest Road and Bridge Specifications.
10. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file and will be made available for review upon request during normal business hours.
11. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis, elimination of a perimeter control, change to ESC concept that would affect the quantity or direction of flow of water) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.
12. The areas beyond the project's construction limits are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.
13. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.
14. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.
15. The contractor shall plan and implement his land disturbance operations in order to:

a. Control the volume and velocity of stormwater runoff within the site to minimize erosion.

b. Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.

c. Minimize the amount of soil exposed.

d. Minimize the disturbance of steep slopes.

e. Minimize sediment discharge from the site.

f. Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.

g. Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

- XX16. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.
17. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be identified, stabilized, and protected with sediment trapping measures.
18. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.
19. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office) - N/A

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Variance

- (1) Type of modification (Variance from ESC regulations, or Deviation from published guidance)
- (2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
- (3) Date that variance/exception/deviation was approved by DEQ.

SECTION III POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1A or 1B that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

1. (Include one of the following notes as appropriate)

This land disturbance activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

2. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance activity by the DEQ in its letter dated (date).

3. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Waiver

- (1) Type of modification (Variance, or Exception from SWM Regulations or Deviation from published guidance)
- (2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
- (3) Date that variance/exception/deviation was approved by DEQ.

4. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

5. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

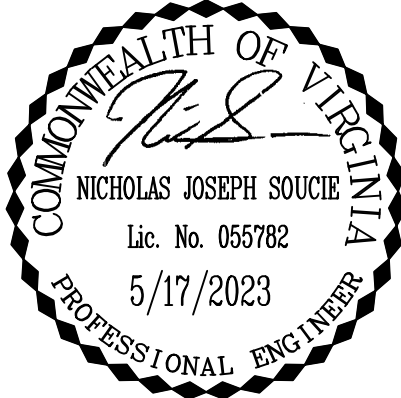
6. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file and will be made available for review upon request during normal working business hours.

ACRONYMS

CBPA - Chesapeake Bay Preservation Act  
BMP - Best Management Practice  
DEQ - Department of Environmental Quality  
EPA - U.S. Environmental Protection Agency  
ESC - Erosion and Sediment Control  
IIM - Instructional and Informational Memorandum  
R&B - Road and Bridge  
RLD - Responsible Land Disturber

SWPPP - Stormwater Pollution Prevention Plan  
TMDL - Total Maximum Daily Load  
VDOT - Virginia Department of Transportation  
VPDES - Virginia Pollutant Discharge Elimination System  
VSMP - Virginia Stormwater Management Program  
VESCP - Virginia Erosion and Sediment Control Program  
WLA - Waste Load Allocation  
SWM - Stormwater Management

- ✕ Denotes information that is to be provided/ completed by the RLD.
- XX Denotes information that is to be provided/completed by the contractor.



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JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

STORMWATER POLLUTION PREVENTION PLAN

JOB NO.  
41013.006

SHEET NO.  
02E(2)

REVISION DESCRIPTION

DATE

5/17/2023

DRAWN BY

DJH

DESIGNED BY

DJH

CHECKED BY

NJS

SCALE

N.T.S.

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/ revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/ revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION IV SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

XXX 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

4. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

X 5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

6. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once per month.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:
- a. Wastewater from concrete washouts.
  - b. Wastewater from the washout and cleanout of stucco, paint, from release oils, curing compounds and other construction materials.
  - c. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
  - d. Oils, toxic substances or hazardous substances from spills or other releases.
  - e. Soaps, solvents or detergents used in equipment and vehicle washing.
  - f. There shall be no discharge of floating solids or visible foam in other than trace amounts
2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:
- a. Discharges from firefighting activities.
  - b. Fire hydrant flushings.
  - c. Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
  - d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
  - e. Potable water sources including uncontaminated waterline flushings managed in a manner to avoid stream impacts.
  - f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
  - g. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
  - h. Uncontaminated air conditioning or compressor condensate.
  - i. Uncontaminated ground water or spring water.
  - j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
  - k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
  - l. Landscape irrigation.

XX

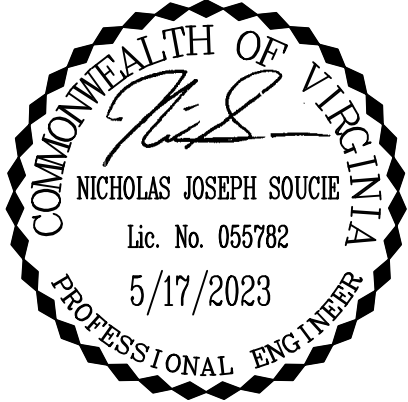
3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:
- a. Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
  - b. Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
  - c. Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
  - d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
  - e. Describe the pollution prevention practices and procedures that will be implemented to:
    - 1) Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.

- 2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
- 3) Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.
- 4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
- 5) Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.
- 6) Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.
- 7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, waste concrete and sanitary wastes.
- 8) Address any other discharge from any potential pollutant-generating activity not listed herein.
- 9) Minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day, or implementing other similarly effective practices. Minimization of exposure is not required in case where the exposure to precipitation will not result in a discharge of pollutants.
- 10) Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

X Denotes information that is to be provided/completed by the RLD.

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JUDICIAL DRIVE TRAIL

STORMWATER POLLUTION PREVENTION PLAN

JOB NO.

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COMMONWEALTH OF VIRGINIA  
*N. J. Soucie*  
 NICHOLAS JOSEPH SOUCIE  
 Lic. No. 055782  
 5/17/2023  
 PROFESSIONAL ENGINEER

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

## SECTION VI - PERMANENT BMP INFORMATION

INSTALLED BMP INFORMATION  
(VDOT Owned/Operated)

### ALTERNATIVE BMP INFORMATION

### Perpetual Nutrient Credits Acquired for Project

Table A: Permanent BMP Types (1999 Va. SWM Handbook)

**Table C: Permanent BMP Types (BMP Clearing House)**

NOTES:

(10) BMP Maintenance ID Number is to be assigned by the District Maintenance Division at permit termination or project completion. This ID number shall be assigned prior to the permit close out process and entered by the area construction engineer under this column, per IIM-LD-95

(12) Nutrient credits purchased to the nearest one hundredth pound.

Table B: Alternative BMP Types

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# JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

NO. 0064) STORMWATER POLLUTION PREVENTION PLAN

# TRANSPORTATION MANAGEMENT PLAN

GENERAL:

1. THE PROJECT LENGTH IS APPROXIMATELY 0.10 MILES. THE PROJECT AREA ITSELF IS OUTSIDE OF TRAFFIC. MAINTENANCE OF TRAFFIC AS DESCRIBED ON THIS PLAN RELATES TO CONSTRUCTION ENTRY AND EXIT POINTS ON ADJACENT ROADWAYS.
2. THE PURPOSE OF THIS PROJECT IS TO PROVIDE A PEDESTRIAN CONNECTION BETWEEN EXISTING TRAILS. A PROPOSED STONE DUST TRAIL IS TO BE CONSTRUCTED AS PART OF THIS PROJECT. AT ITS WESTERN TERMINUS, THE TRAIL CONNECTS TO PRESBYTERIAN WAY. AT ITS EASTERN TERMINUS, THE TRAIL CONNECTS TO JUDICIAL DRIVE.
3. TRAFFIC ALONG PRESBYTERIAN WAY CONSISTS MAINLY OF VEHICLES THAT ARE ACCESSING THE PRIVATELY-OWNED PARKING LOT TO THE SOUTH. TRAFFIC ON JUDICIAL DRIVE CONSISTS MAINLY OF LOCAL TRAFFIC ACCESSING ADJACENT COMMERCIAL AND RESIDENTIAL PROPERTIES.
4. ALL EXISTING SPEED LIMITS ON PRESBYTERIAN WAY AND JUDICIAL DRIVE WILL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
5. CONTRACTOR SHALL ONLY UTILIZE THE EXISTING TRAIL TO THE EAST OF THE PROJECT. EXTENTS, AND ITS CONNECTION TO JUDICIAL DRIVE, AS AN ACCESS POINT IN AND OUT OF THE WORK AREA. CONTRACTOR SHALL NOT UTILIZE PRESBYTERIAN WAY AS AN ACCESS POINT. TEMPORARY TRAFFIC CONTROL ON PRESBYTERIAN WAY SHALL GUIDE THRU TRAFFIC AROUND THE ADJACENT WORK AREA.

TEMPORARY TRAFFIC CONTROL (TTC) / MAINTENANCE OF TRAFFIC (MOT):

6. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (NOVEMBER 1, 2020 REVISION). AT A MINIMUM, WHENEVER WORK IS TAKING PLACE ADJACENT TO A PUBLICLY-TRAVELED ROAD, THE FOLLOWING TEMPORARY TRAFFIC MEASURES SHALL BE USED:
  - 6.1. TYPICAL TRAFFIC CONTROL WORK BEYOND THE SHOULDER OPERATION (FIGURE TTC-1.1)
  - 6.2. TYPICAL TRAFFIC CONTROL STATIONARY OPERATION ON SHOULDER (FIGURE TTC-4.2).
7. CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE AT THE LOCATION WHERE THE EXISTING CITY-OWNED TRAIL INTERSECTS JUDICIAL DRIVE EAST OF THE PROJECT LIMITS. CONTRACTOR SHALL RESTORE THIS AREA TO ITS PRIOR CONDITION AT THE CONCLUSION OF CONSTRUCTION.
8. TRUCKS ENTERING HIGHWAY (W11-V4) OR CONSTRUCTION ENTRANCE (W11-V2) SIGNS SHALL BE INSTALLED ON JUDICIAL DRIVE IN ADVANCE OF THE ENTRY POINT TO JUDICIAL DRIVE. SIGN SPACING SHALL BE IN ACCORDANCE WITH THE WORK AREA PROTECTION MANUAL. ALL WARNING SIGNS NOTING WORK ZONE ACCESS ACTIVITIES SHALL BE COVERED OR REMOVED WHEN THE DAILY WORK ACTIVITY CEASES.
9. WORK VEHICLES ENTERING AND EXITING THE WORK AREA SHALL BE EQUIPPED WITH AND HAVE OPERATING AT LEAST ONE HIGH INTENSITY AMBER ROTATING, FLASHING, OR OSCILLATING LIGHT VISIBLE FROM 360 DEGREES.
10. NEGATIVE IMPACTS TO THE TRAVELING PUBLIC SHALL BE MINIMIZED IN EVERY WAY POSSIBLE.
11. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

PUBLIC COMMUNICATION PLAN:

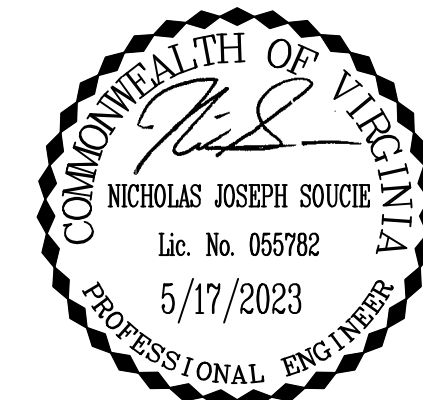
1. IF ANY MAJOR TRAFFIC CHANGES ARE TO TAKE PLACE (LANE CLOSURES, ETC.), THE PROJECT ADMINISTRATOR SHALL ENSURE THAT LOCAL NEWSPAPERS AND RADIO STATIONS ARE INFORMED 72 HOURS IN ADVANCE OF THE CHANGE.
2. PORTABLE CHANGEABLE MESSAGE BOARDS (PCMBs) SHALL BE USED TO NOTIFY THE TRAVELING PUBLIC OF ANY SUCH MAJOR TRAFFIC CHANGES 72 HOURS IN ADVANCE OF THE CHANGE.

## TRANSPORTATION OPERATION PLAN:

1. THE FOLLOWING IS A LIST OF LOCAL EMERGENCY NUMBERS:  
EMERGENCY: 911  
FIRE: 703-385-7940  
CITY POLICE: 703-385-7940  
STATE POLICE: 703-803-2660  
ENGINEER: NICK SOUCIE, TIMMONS GROUP: 804-200-6431  
CITY OF FAIRFAX: WENDY SANFORD, TRANSPORTATION DIRECTOR, 703-385-7889  
NORTHERN REGIONAL TRAFFIC OPERATIONS CENTER: 703-554-6712  
PUBLIC AFFAIRS MANAGER: JENNI McCORD, 703-259-1779  
VDOT NORTHERN VIRGINIA DISTRICT: 800-367-7623  
DISTRICT WORK ZONE SAFETY COORDINATOR: BRIAN FRY, 703-259-2394
2. ANY TRAFFIC INCIDENT THAT OCCURS DURING THE LIFE OF THIS PROJECT WILL BE DISCUSSED BY THE CONTRACTOR, VDOT PERSONNEL (AS REQUIRED), THE ENGINEER, AND CITY PROJECT PERSONNEL TO DETERMINE WHETHER ANY CHANGES NEED TO BE MADE TO THE TRAFFIC CONTROL ON THE PROJECT.

TMP GENERAL NOTES:

3. ANY REQUIRED LANE CLOSURES MUST BE APPROVED IN ADVANCE BY THE CITY OF FAIRFAX TRANSPORTATION DEPARTMENT.
2. NORMAL WORKING HOURS FOR THE PROJECT ARE 7:00 A.M. TO 6:00 P.M., MONDAY THROUGH FRIDAY, AND 8:30 A.M. TO 5:00 P.M. SATURDAYS.
3. TRAFFIC SHALL NOT BE STOPPED ON PRESBYTERIAN WAY OR JUDICIAL DRIVE FOR LONGER THAN FIVE MINUTES AT ANY TIME UNLESS OTHERWISE APPROVED BY THE CITY OF FAIRFAX TRANSPORTATION DIRECTOR.
4. ALL AREAS EXCAVATED DEEPER THAN 2" (INCHES) BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK FILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST PLACING, MAINTAINING AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. LANE CLOSURES ARE NOT PERMITTED UNLESS OTHERWISE APPROVED BY THE CITY OF FAIRFAX TRANSPORTATION DIRECTOR.
6. ANY CONTRACT ITEM(S) NOT SPECIFICALLY NOTED IN THE MAINTENANCE OF TRAFFIC MAY BE SCHEDULED FOR CONSTRUCTION AT THE CONTRACTOR'S OPTION, AS APPROVED BY THE ENGINEER, THE CITY, AND VDOT.
7. ACCESS TO ADJACENT PROPERTIES AND CONNECTING STREETS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. WHEN ADJACENT TRAILS ARE OPEN, THE TRAILS SHALL BE FULLY USABLE AND IN COMPLIANCE WITH ADA REGULATIONS. THE CONTRACTOR SHALL PLAN WORK IN A MANNER THAT MAXIMIZES THE TIME THAT EXISTING AND ADJACENT TRAILS MAY BE USED, AND PERMITS ADA-COMPLIANT ACCESS WHILE OPEN. WHEN THE TRAIL IS CLOSED, APPROPRIATE SIGNAGE MUST BE PROVIDED AT ALL TRAIL ACCESS POINTS TO INDICATE SUCH CLOSURE.
8. ALL TRAFFIC CONTROL SHALL BE SET UP AND SPACED ACCORDING TO THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (NOVEMBER 1, 2020 REVISION).
9. CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL AS DIRECTED BY THE CITY OF FAIRFAX SHOULD FIELD CONDITIONS WARRANT.
10. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF ALL TEMPORARY PAVEMENT MARKINGS THAT ARE REQUIRED OR IMPLIED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC CONTROL PERSONNEL, ETC. TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN CITY MAINTAINED RIGHT-OF-WAY. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES, AND OBJECTIVES OF THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (NOVEMBER 1, 2020 REVISION), MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ALL PERMITS.
11. AT NO TIME SHALL CONSTRUCTION TAKE PLACE ON BOTH THE RIGHT AND LEFT SIDES OF VEHICLES UNLESS SPECIFIED BY THE CITY AND THE ENGINEER.
12. ALL CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE STORED OFF-SITE, OR AT A LOCATION OUTSIDE OF CLEAR ZONE / SIGHT DISTANCE RESTRICTIVE AREAS. ALL STORAGE AREAS REQUIRE CITY OF FAIRFAX APPROVAL PRIOR TO ESTABLISHMENT OF SUCH STORAGE AREAS.
13. EMERGENCY VEHICLE, BUS, AND MAIL ROUTES SHALL BE MAINTAINED AT ALL TIMES.

[illegible]


VISION ACHIEVED THROUGH OURS.  THIS DRAWING PREPARED AT THE <b>CORPORATE OFFICE</b> 10000 Corporate Center Parkway, Suite 300   Richmond, VA 23225 800-650-0500 FAX 804-560-1016 www.linimons.com	DATE	5/17/2023
	DRAWN BY	IJH
	DESIGNED BY	IJH
	CHECKED BY	NJS
	SCALE	N. T. S.

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## WHAT

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**TIMMONS GROUP** 

Site Development | Residential | Infrastructure | Technology

# JUDICIAL DEBATE TRATI

CITY OF FAIRFAX - VIRGINIA

## TRAFFIC MANAGEMENT PLAN

JOB NO.  
*1013.006*

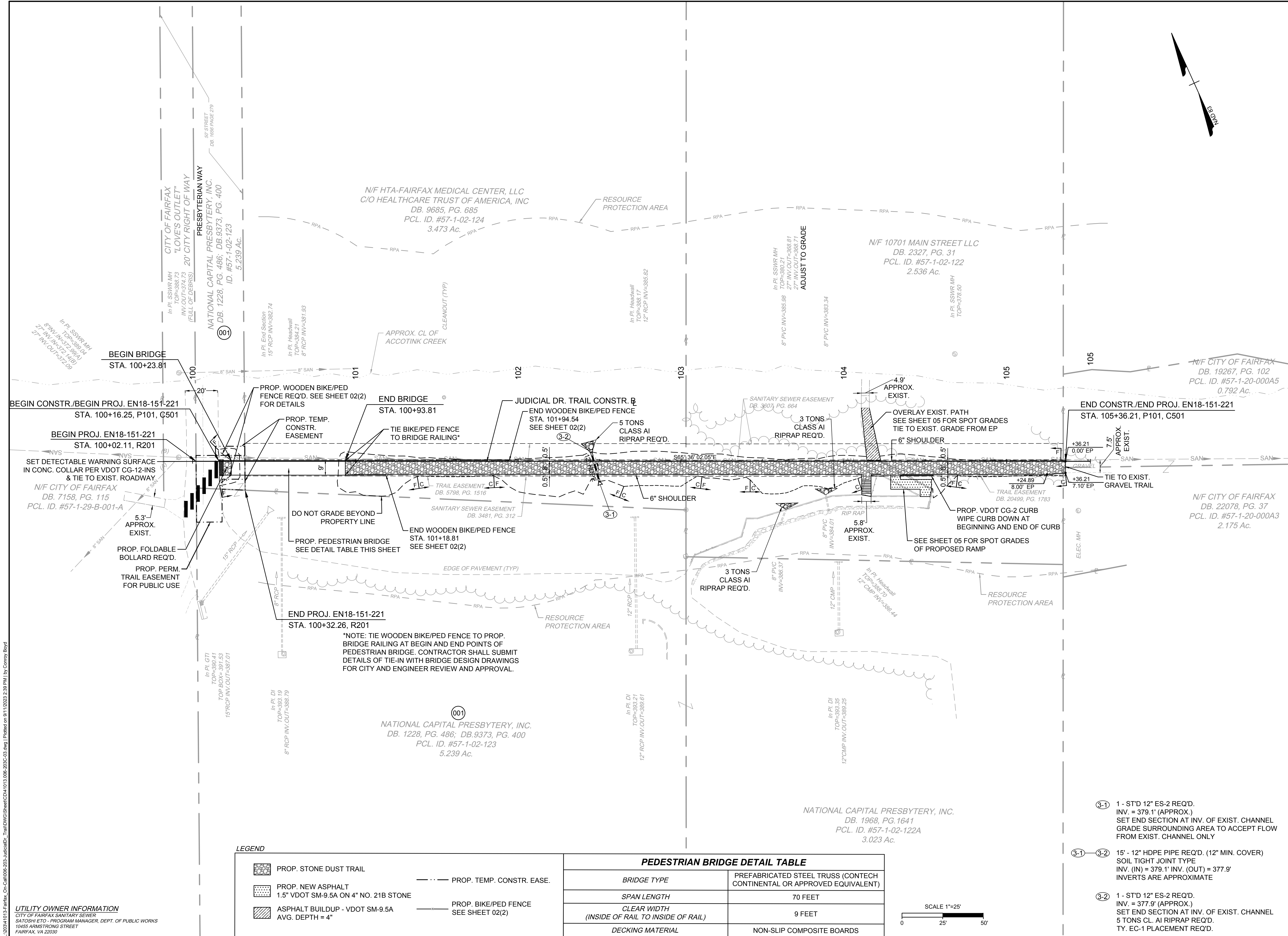
SHEET NO.  
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UTILITY OWNER INFORMATION  
CITY OF FAIRFAX SANITARY SEWER  
SATOSHI ETO - PROGRAM MANAGER, DEPT. OF PUBLIC WORKS  
10455 ARMSTRONG STREET  
FAIRFAX, VA 22030



LEGEND

- PROP. STONE DUST TRAIL
- PROP. NEW ASPHALT  
1.5" VDOT SM-9.5A ON 4" NO. 21B STONE
- ASPHALT BUILDUP - VDOT SM-9.5A  
AVG. DEPTH = 4"
- PROP. TEMP. CONSTR. EASE.
- PROP. BIKE/PED FENCE  
SEE SHEET 02(2)

PEDESTRIAN BRIDGE DETAIL TABLE	
BRIDGE TYPE	PREFABRICATED STEEL TRUSS (CONTECH CONTINENTAL OR APPROVED EQUIVALENT)
SPAN LENGTH	70 FEET
CLEAR WIDTH (INSIDE OF RAIL TO INSIDE OF RAIL)	9 FEET
DECKING MATERIAL	NON-SLIP COMPOSITE BOARDS



- 3-1

1 - ST'D 12" ES-2 REQ'D.  
INV. = 379.1' (APPROX.)  
SET END SECTION AT INV. OF EXIST. CHANNEL  
GRADE SURROUNDING AREA TO ACCEPT FLOW  
FROM EXIST. CHANNEL ONLY
- 3-1 3-2

15' - 12" HDPE PIPE REQ'D. (12" MIN. COVER)  
SOIL TIGHT JOINT TYPE  
INV. (IN) = 379.1' INV. (OUT) = 377.9'  
INVERTS ARE APPROXIMATE
- 3-2

1 - ST'D 12" ES-2 REQ'D.  
INV. = 377.9' (APPROX.)  
SET END SECTION AT INV. OF EXIST. CHANNEL  
5 TONS CL. AI RIPRAP REQ'D.  
TY. EC-1 PLACEMENT REQ'D.

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JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

PLAN SHEET

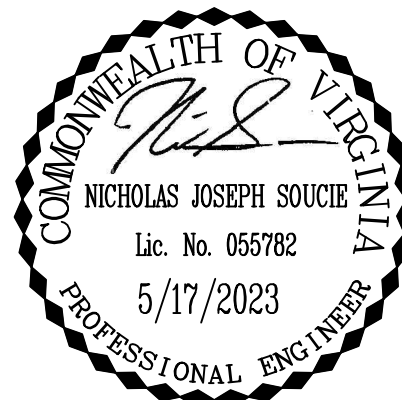
JOB NO.  
41013.006  
SHEET NO.  
03

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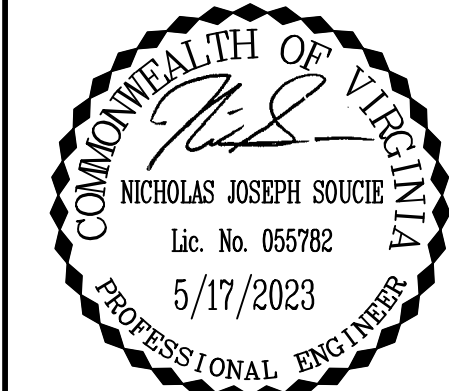
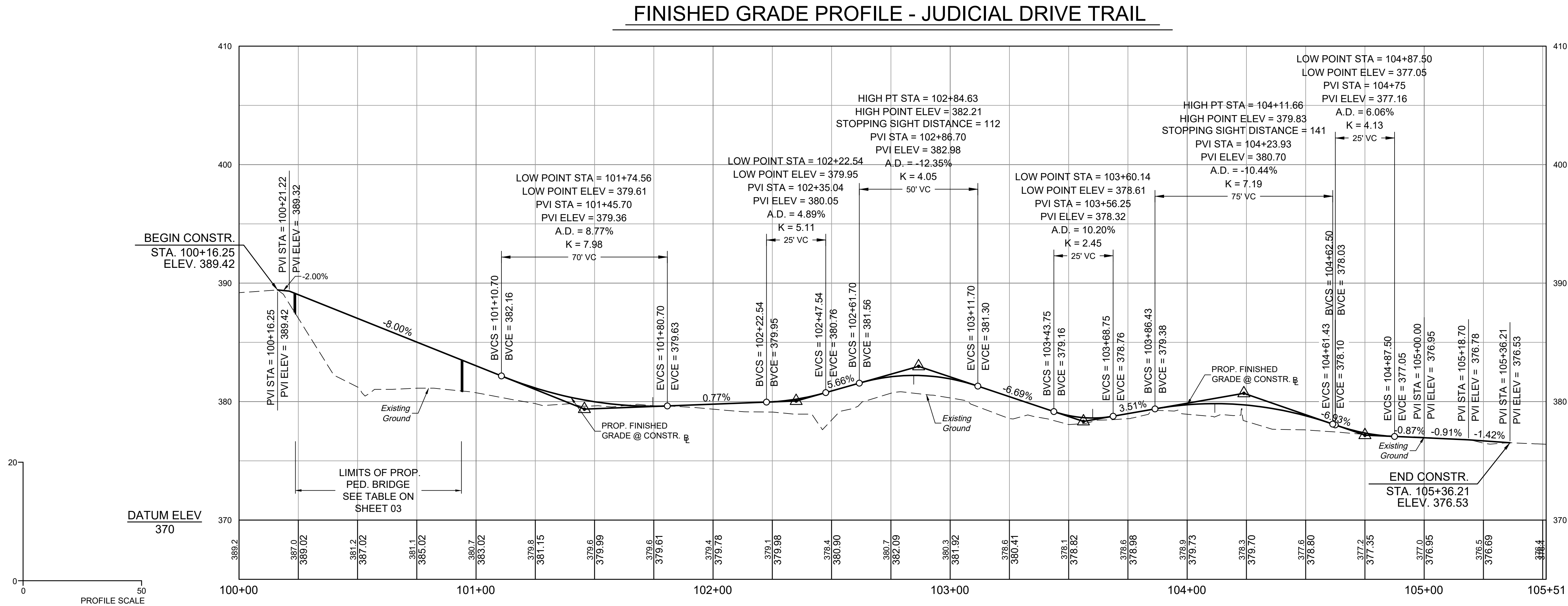
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TEL 804.200.0500 FAX 804.360.1016 www.timmons.com

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NJS  
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REVISION DESCRIPTION  
PAVEMENT SECTION & BRIDGE TYPE REVISED FOR ADVERTISEMENT  
DATE  
5/17/2023  
DRAWN BY  
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DESIGNED BY  
IJH  
CHECKED BY  
NJS  
SCALE  
1"=25'



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Site Development | Residential | Infrastructure | Technology

JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

PROFILE SHEET

DATE

5/17/2023

DRAWN BY

DJH

DESIGNED BY

DJH

CHECKED BY

NJS

SCALE

1" = 25'

REVISION DESCRIPTION

DATE

5/17/2023

DRAWN BY

DJH

DESIGNED BY

DJH

CHECKED BY

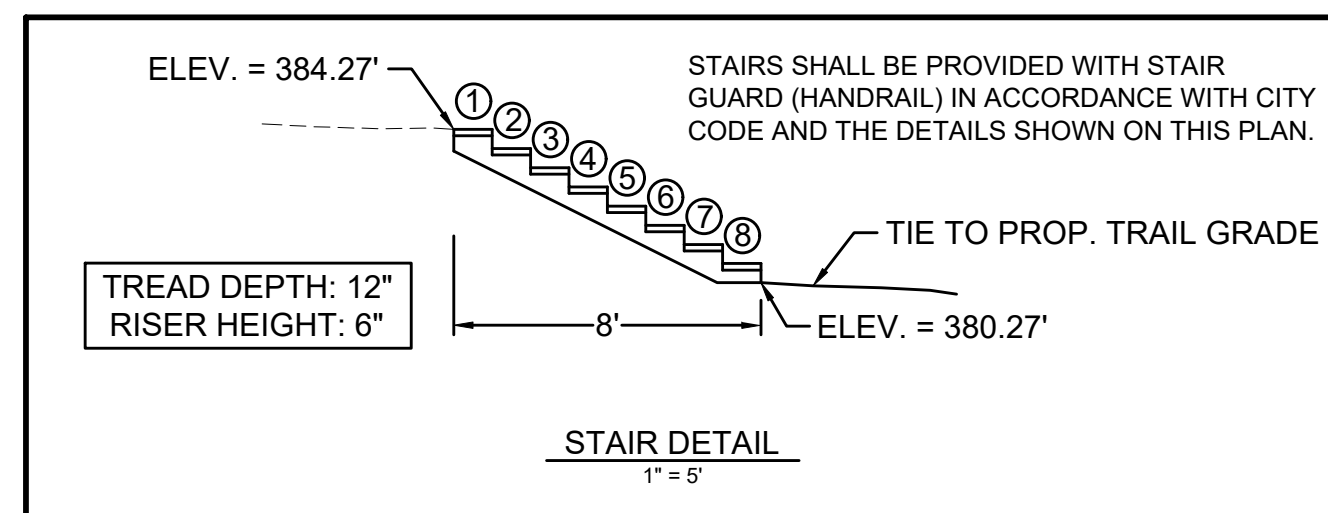
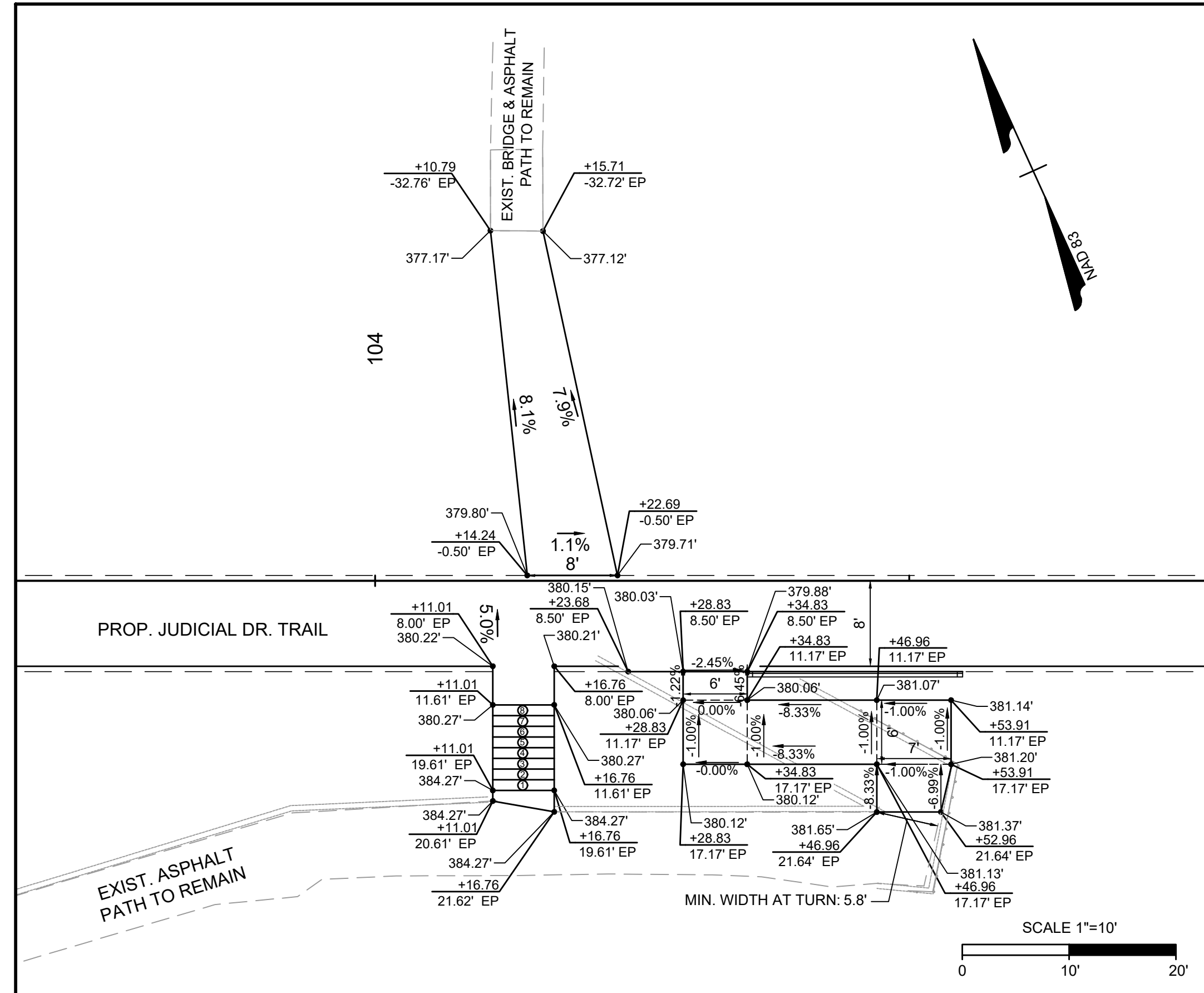
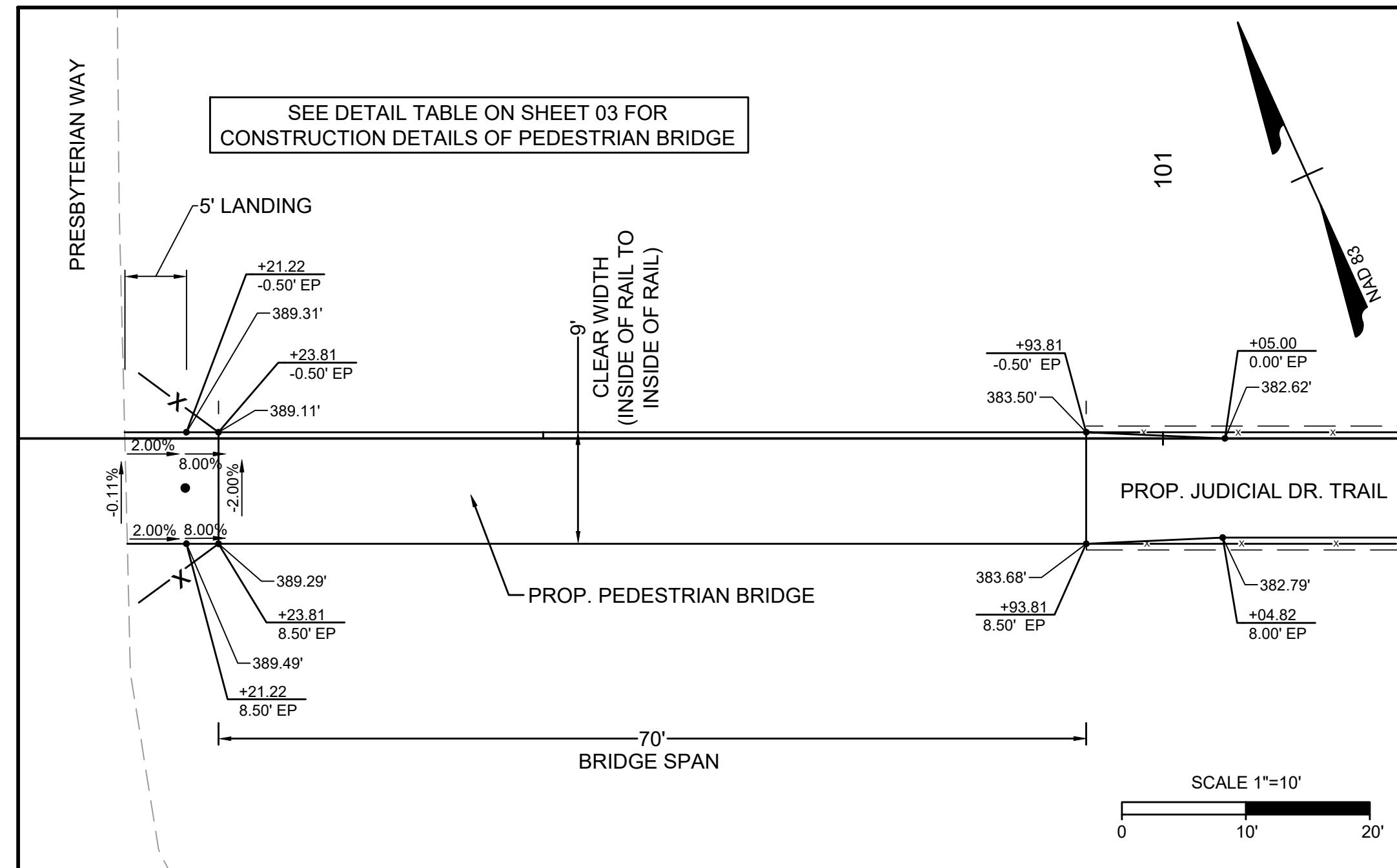
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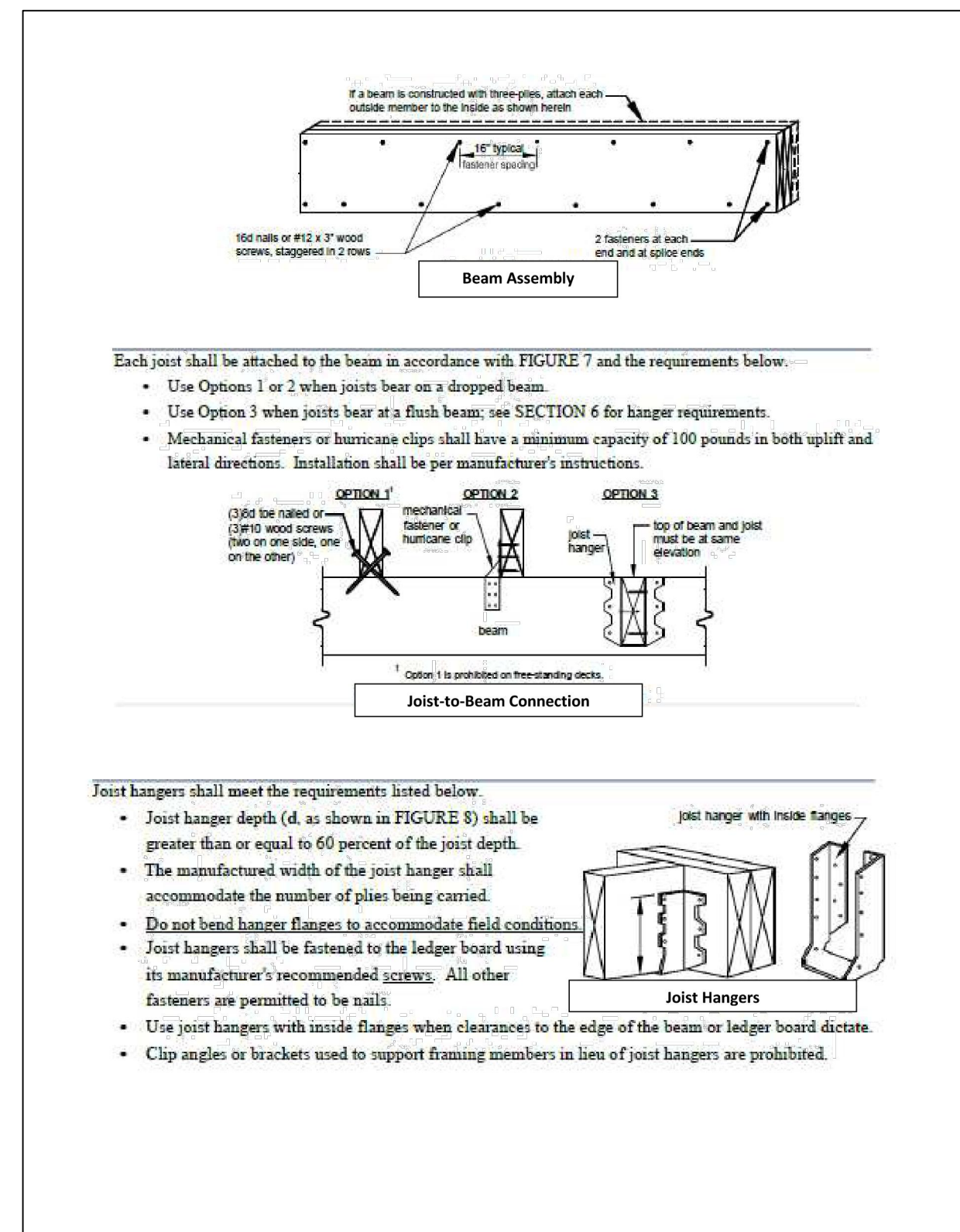
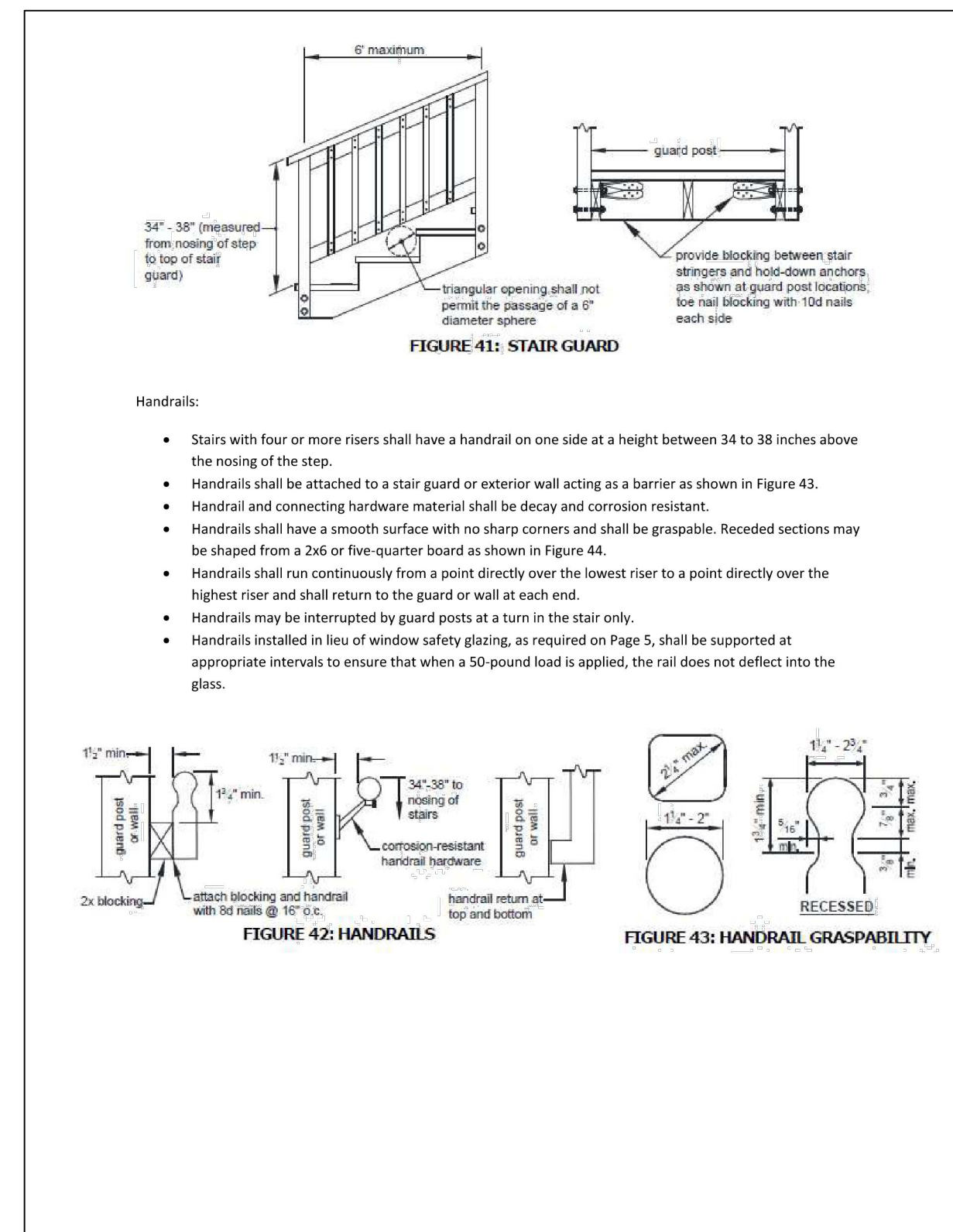
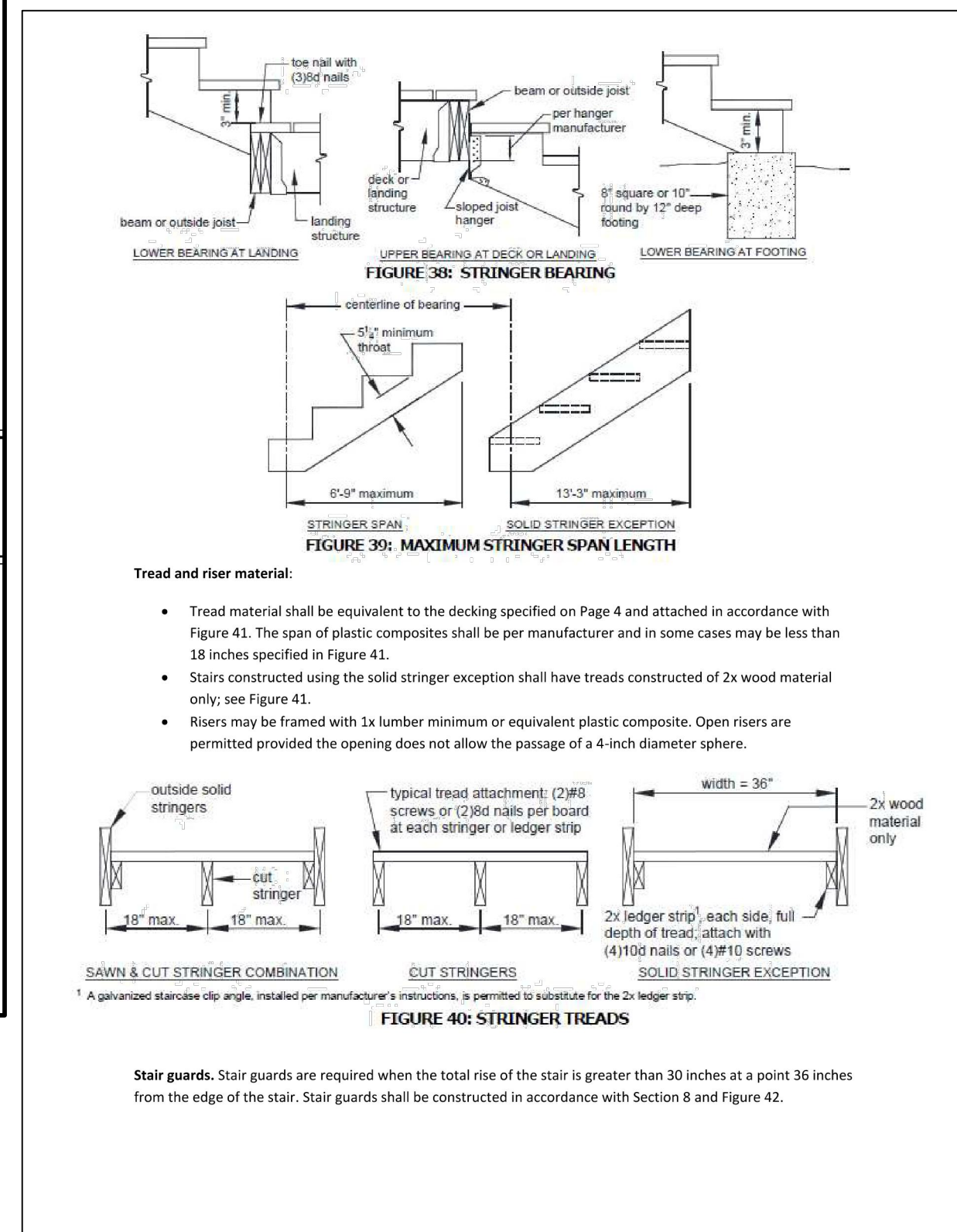
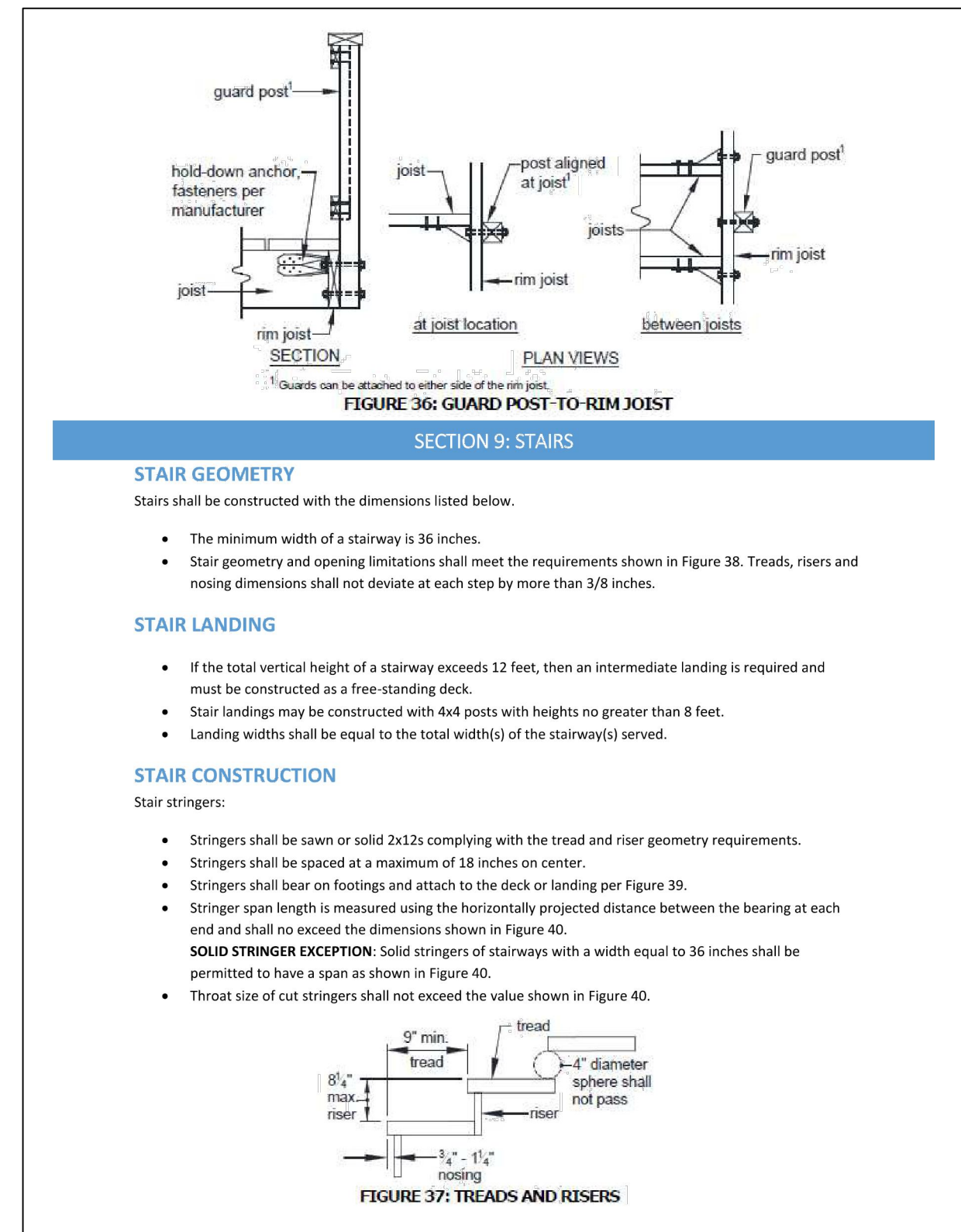
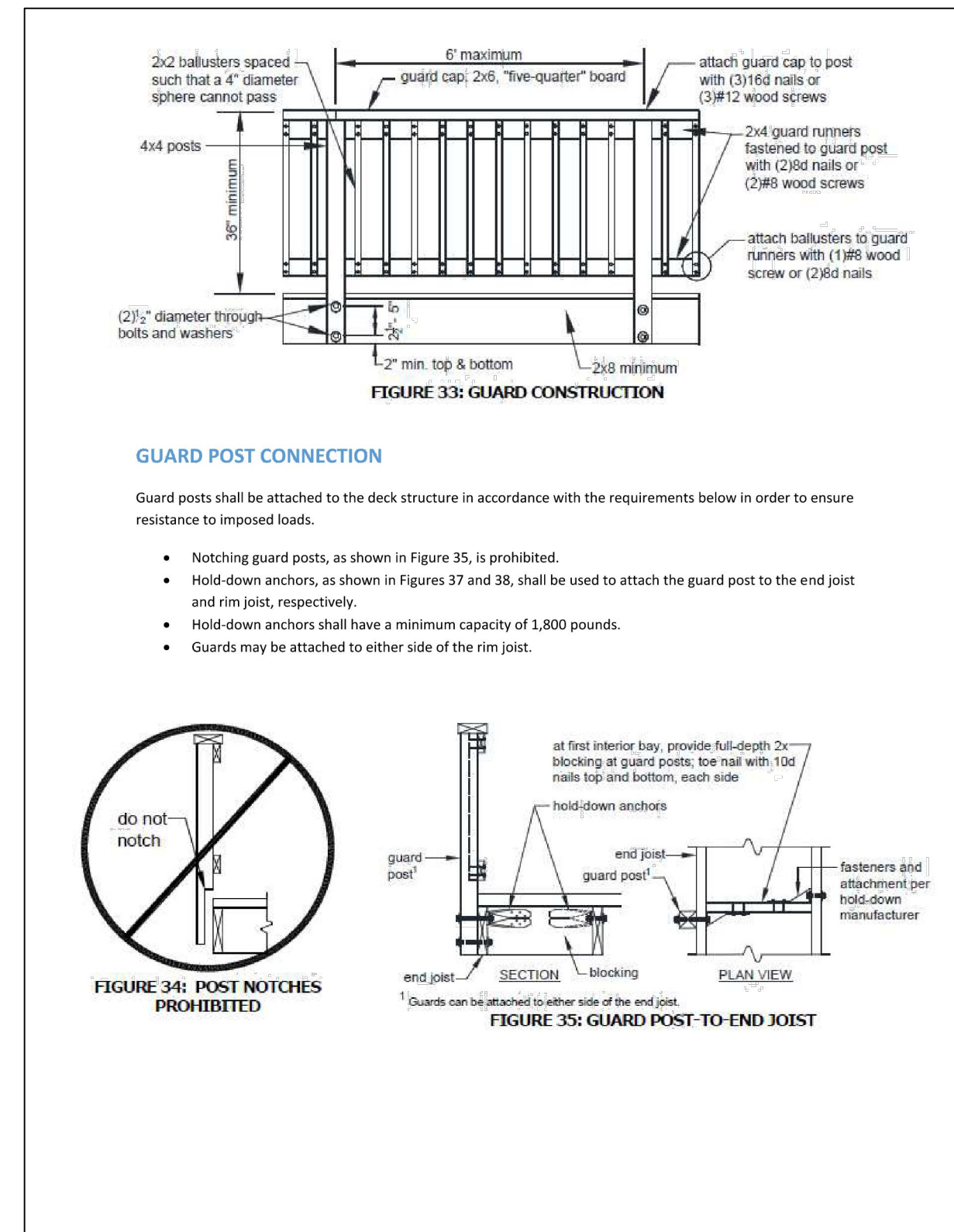
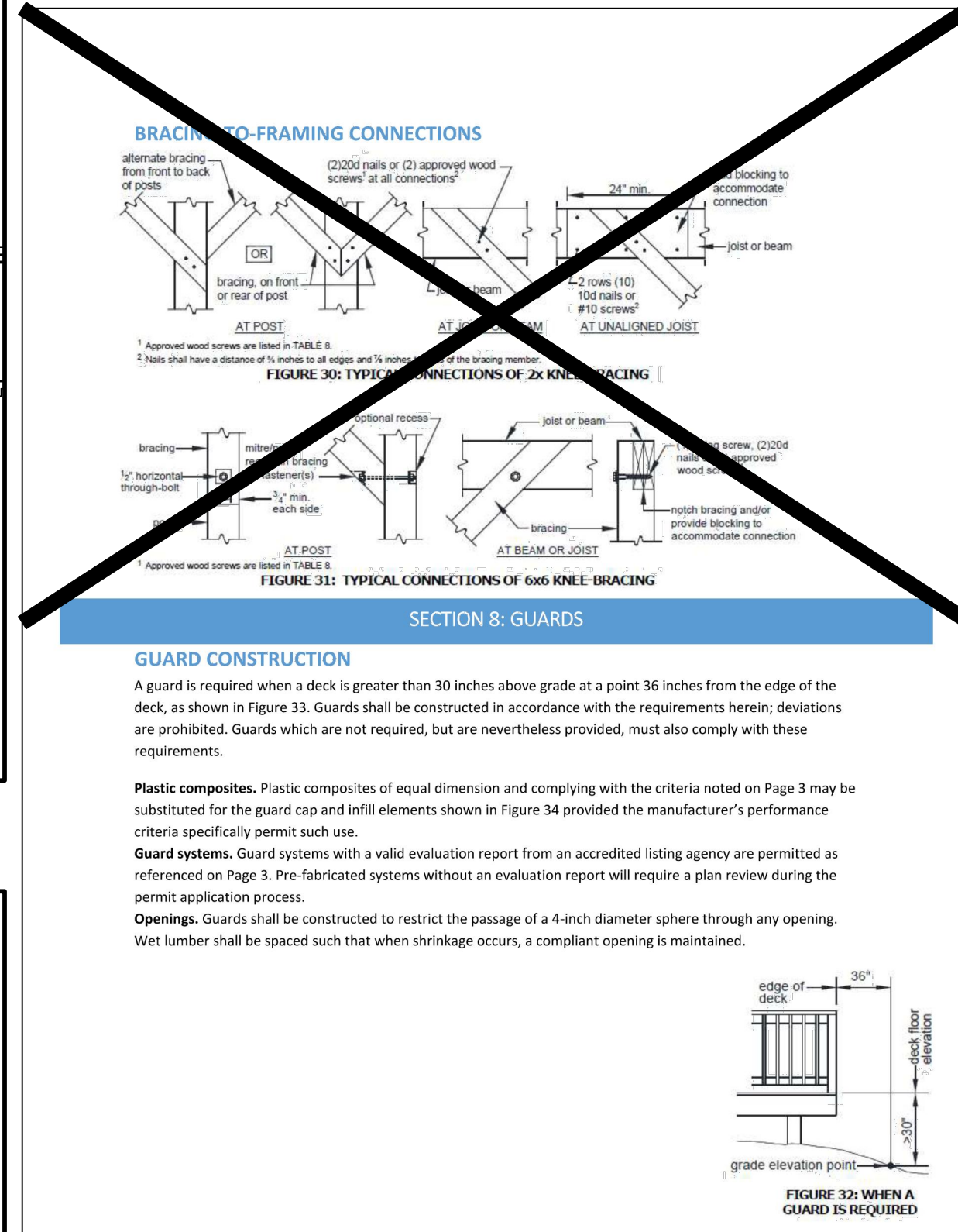
1" = 25'

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# CITY OF FAIRFAX - WOODEN STAIR CONSTRUCTION STANDARDS





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2013 BMP Standards and Specifications

2013 Draft BMP Standards and Specifications

Project Name:

Judicial Drive Trail

Date:

6/27/2020

BMP Design Specification Date:

2013 Draft Sids & Specs

CLEAR ALL

data input cells

constant values

calculation cells

final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Land Cover (acres)

A Sols	B Sols	C Sols	D Sols	Total
Forest/Open Space (acres) – undisturbed, protected forest/open space or a watershed/outlet Manager for (acres) – disturbed, greater for post or other land to be reseed/revegetated	0.11	0.05		0.16
Impervious Cover (acres)	0.04	0.04		0.08
	0.01			0.01
			0.25	0.25

\* Forest/Open space must not be protected in accordance with the Virginia runoff reduction Manual

Constants

Annual Rainfall (inches)	43
Target Rainfall Cover (inches)	1.00
Rain Reductions (TDD DASH (inches))	1.20
Total Wastage (%) DASH (inches)	0.44
Target % Loss (Runoff)(%)	0.44
% (excess correction factor)	0.00

Runoff Coefficients (Rv)

A Sols	B Sols	C Sols	D Sols	
Forest/Open Space	0.01	0.00	0.04	0.05
Managed Turf	0.15	0.10	0.12	0.15
Impervious Cover	0.95	0.95	0.95	0.95

Post-Development Requirement for Site Area

TP Load Reduction Required (B)/yr	<0.63	** TP LOAD REDUCTION NOT REQUIRED
-----------------------------------	-------	-----------------------------------

LAND COVER SUMMARY – POST DEVELOPMENT

Land Cover Summary

Forest/Open Space Cover (acres)	0.16
Weighted Rv (Forest)	0.03
% Forest	14%
Managed Turf Cover (acres)	0.08
Weighted Rv (Turf)	0.21
% Managed Turf	32%
Impervious Cover (acres)	0.01
Rv (Impervious)	0.95
% Impervious	4%
Site Area (acres)	0.25
Site Rv	0.13

Treatment Volume and Nutrient Loads

Treatment Volume (acres-ft)	Loads
Treatment Volume (Inches Total)	0.026
Treatment Volume (Inches Total)	1.15
% Total (Rv)(%)	0.07
Informational Parameters Only	

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 3.0

BMP Design Specifications List: 2013 Draft Stds & Specs

Site Summary

Project Title: Judicial Drive Trail

Date: 4/40/0

Total Rainfall = 43 inches

Site Land Cover Summary

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.00	0.11	0.05	0.00	0.16	64
Managed Turf (acres)	0.00	0.04	0.04	0.00	0.08	32
Impervious cover (acres)	0.00	0.00	0.01	0.00	0.01	4
					0.25	100

Site Tn and Land Cover Nutrient Loads

Site Tn	0.13
Treatment Volume (ft <sup>3</sup> )	115
TP Load (lb/yr)	0.07
TN Load (lb/yr)	0.52

Total TP Load Reduction Required (lb/yr)

-0.03

\*\* TP LOAD REDUCTION NOT REQUIRED

Site Compliance Summary

Total Runoff Volume Reduction (ft <sup>3</sup> )	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	0.07
Remaining TP Load Reduction (lb/yr) Required	0.00

\*\* TARGET TP REDUCTION EXCEEDED BY 0.03 LB/YEAR \*\*

PVC Culvert (103+65)		PVC Culvert (103+90)	
Project Description		Project Description	
Friction Method	Manning Formula	Friction Method	Manning Formula
Solve For	Normal Depth	Solve For	Normal Depth
Input Data		Input Data	
Roughness Coefficient	0.010	Roughness Coefficient	0.010
Channel Slope	0.035 ft/l	Channel Slope	0.060 ft/l
Diameter	8.0 in	Diameter	8.0 in
Discharge	0.07 cfs	Discharge	0.54 cfs
Results		Results	
Normal Depth	0.8 in	Normal Depth	2.0 in
Flow Area	0.00 ft²	Flow Area	0.1 ft²
Wetted Perimeter	0.4 ft	Wetted Perimeter	0.7 ft
Hydraulic Radius	0.5 in	Hydraulic Radius	1.2 in
Top Width	0.41 ft	Top Width	0.58 ft
Critical Depth	1.4 in	Critical Depth	4.1 in
Percent Full	10.6 %	Percent Full	25.0 %
Critical Slope	0.004 ft/l	Critical Slope	0.004 ft/l
Velocity	3.53 ft/s	Velocity	7.90 ft/s
Velocity Head	0.19 ft	Velocity Head	0.97 ft

Site Results (Water Quality Compliance)						
<b>Area Checks</b>						
D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK	
FOREST/OPEN SPACE (ac)	0.00	0.00	0.00	0.00	0.00	OK
IMPERVIOUS COVER (ac)	0.00	0.00	0.00	0.00	0.00	OK
IMPERVIOUS COVER TREATED (ac)	0.00	0.00	0.00	0.00	0.00	OK
MANAGED TURF AREA (ac)	0.00	0.00	0.00	0.00	0.00	OK
MANAGED TURF AREA TREATED (ac)	0.00	0.00	0.00	0.00	0.00	OK
AREA CHECK	OK	OK	OK	OK	OK	
<b>Site Treatment Volume (ft³)</b>						
	115					
<b>Runoff Reduction Volume and TP By Drainage Area</b>						
D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL	
RUNOFF REDUCTION VOLUME ACHIEVED (ft³)	0	0	0	0	0	
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
TP LOAD REMAINING (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Phosphorus</b>						
FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	0.07					
TP LOAD REDUCTION REQUIRED (lb/yr)	-0.03					
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.00					
TP LOAD REMAINING (lb/yr)	0.07					
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr)	0.00	**				
<b>** TARGET TP REDUCTION EXCEEDED BY 0.03 LB/YEAR **</b>						
<b>Total Nitrogen (For Information Purposes)</b>						
POST-DEVELOPMENT LOAD (lb/yr)	0.52					
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	0.00					
REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	0.52					

Flow to 8" PVC Culvert (103+65)					
Area Number	Area	C-Factor	CA	2-yr Intensity	100-yr Intensity
5	0.03	0.40	0.01	5.18	6.76
<b>Total:</b>	<b>0.03</b>		<b>0.01</b>		<b>8.89</b>

Flow to 8" PVC Culvert (103+90)					
Area Number	Area	C-Factor	CA	2-yr Intensity	100-yr Intensity
6	0.19	0.55	0.10	5.18	6.76
<b>Total:</b>	<b>0.19</b>		<b>0.10</b>		<b>8.89</b>

Flow to Str. 3-1					
Area Number	Area	C-Factor	CA	2-yr Intensity	100-yr Intensity
7	0.20	0.70	0.14	5.18	6.76
<b>Total:</b>	<b>0.20</b>		<b>0.14</b>		<b>8.89</b>

Flow to Str. 3-1					
Area Number	Area	C-Factor	CA	2-yr Intensity	100-yr Intensity
7	0.20	0.70	0.14	5.18	6.76
<b>Total:</b>	<b>0.20</b>		<b>0.14</b>		<b>8.89</b>

Flow to Str. 3-1					
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[illegible]

## STORMWATER MANAGEMENT NARRATIVE

THE JUDICIAL DRIVE TRAIL CONNECTION PROJECT CONSISTS OF A PROPOSED 8' WIDE STONE DUST TRAIL ALONG THE SOUTH SIDE OF ACOTINK CREEK IN THE CITY OF FAIRFAX, VIRGINIA. THE PROPOSED TRAIL IS APPROXIMATELY 519 FEET LONG AND HAS BEEN DESIGNED IN ACCORDANCE WITH VDOT DESIGN GUIDELINES FOR A 6' WIDE STONE DUST TRAIL. THE PROPOSED TRAIL IS 519 FEET LONG. THE LINEAR FEEL WILL CONSIST OF A PEDESTRIAN BRIDGE, WHICH IS NOT INCLUDED IN THE IMPERVIOUS AREA CALCULATIONS. IN ACCORDANCE WITH STORMWATER MANAGEMENT WATER QUALITY REQUIREMENTS, WATER QUALITY ANALYSIS HAS BEEN CALCULATED AS "NEW DEVELOPMENT" IN ACCORDANCE WITH THE VIRGINIA RUNOFF REDUCTION METHOD. THERE ARE A 100' WIDE RESOURCE PROTECTION AREA (RPA) ALONG ACOTINK CREEK. A WATER QUALITY IMPACT ASSESSMENT (WQIA) IS PROVIDED BELOW.

THE VIRGINIA STORMWATER REGULATIONS HAVE BEEN REVIEWED FOR THIS PROJECT AND THE RUNOFF REDUCTION METHODOLOGY HAS BEEN IMPLEMENTED TO DETERMINE THE PHOSPHORUS REMOVAL REQUIREMENTS AND THE RUNOFF REDUCTION VOLUME REQUIREMENTS FOR THIS PROJECT. IN ACCORDANCE WITH THE "NEW DEVELOPMENT" REQUIREMENTS OF THE WATER QUALITY REGULATIONS, TOTAL PHOSPHORUS LOAD SHALL NOT EXCEED 0.41 LBS/ACRE/YEAR. FOR THE DISTURBED AREA OF 0.25 ACRES, THIS PROVIDES A TOTAL PHOSPHORUS LOAD LIMIT OF 0.0943 LBS/YEAR, WHICH IS ACTIVELY ROUNDED TO 0.09 LBS/YEAR. THE TOTAL PHOSPHORUS LOAD ASSOCIATED WITH THE PROJECT, AS CALCULATED PURSUANT TO 9VAC25-870-65, IS 0.07 LBS/YEAR. THEREFORE, AS DEPICTED BY THE VRRM CALCULATION SPREADSHEETS SHOWN ON THIS PLAN, TOTAL PHOSPHORUS LOAD REDUCTION IS NOT REQUIRED, AND STORMWATER QUALITY REQUIREMENTS ARE SATISFIED.

THE TOTAL DISTURBANCE FOR THE SITE IS 0.25 ACRES. OF THE 0.25 ACRES, 0.01 ACRES IS IMPERVIOUS AREA. 0.08 AC. OF THE DISTURBED AREA CONSISTS OF MANAGED TURF, WHICH CONSISTS OF THE SURFACE OF THE STONE DUST TRAIL, AND 6" SHOULDERS ON EITHER SIDE. THE REMAINING AREA OF THE SITE CONSISTS OF FORESTED AREA (0.14 AC.), IN WHICH THE OVERARCHING TREE CANOPY REMAINS UNDISTURBED AND SEEDING IS APPLIED IN ACCORDANCE WITH CITY OF FAIRFAX REQUIREMENTS FOR SEEDING WITHIN AN RPA.

IN ADDITION TO STORMWATER QUALITY MANAGEMENT, STORMWATER QUANTITY COMPLIANCE IS IN ACCORDANCE PER THE PART IIB TECHNICAL CRITERIA OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK. ALL SITE AREAS UTILIZE SHEET FLOW GRADING TO PASS DRAINAGE IN ITS CURRENT DRAINAGE PATTERN TOWARDS ACCOTINK CREEK. THEREFORE, STORMWATER QUANTITY COMPLIANCE IS SATISFIED AND NO FURTHER DOCUMENTATION IS REQUIRED.

## WATER QUALITY IMPACT ASSESSMENT WAIVER - STATEMENT OF JUSTIFICATION

IN ACCORDANCE WITH CHAPTER 110, SECTION 110-88, WHICH STATES

"SEC. 110-88. - EXEMPTIONS. [...]"

(C) THE FOLLOWING LAND DISTURBANCES WITHIN THE RPA SHALL BE EXEMPTED FROM THIS DIVISION: [...] (II) PASSIVE RECREATION FACILITIES, SUCH AS BOARDWALKS, TRAILS, AND PATHWAYS"

THE PROPOSED PROJECT IS A TRAIL AND WILL PROVIDE PASSIVE RECREATION FOR ITS USERS. IN ACCORDANCE WITH ITEM C ABOVE, PER THE CITY CODE, THE PROPOSED PROJECT DOES NOT REQUIRE PHOSPHORUS REMOVAL AND NATIVE RIPARIAN VEGETATIVE PLANTINGS TO INCREASE UPTAKE AND PROVIDE ADDED WATER QUALITY BENEFITS. FURTHERMORE, THIS PLAN SET INCLUDES AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESH) FOR CONSTRUCTION ACTIVITIES. AS SUCH, IT IS THE OPINION OF THE ENGINEER THAT THE PROPOSED ACTIVITIES WILL NOT IMPACT WATER QUALITY, AND NO FURTHER DOCUMENTATION IS REQUIRED.

## RESOURCE PROTECTION AREA DELINEATION

THE BOUNDARIES OF THE RESOURCE PROTECTION AREA WERE DELINEATED BASED UPON THE METHODOLOGY OUTLINED IN THE 1987 U.S. ARMY CORPS OF ENGINEERS (USACE) WETLAND DELINEATION MANUAL. THE REGIONAL SUPPLEMENT TO THE USACE WETLAND DELINEATION MANUAL, REGIONAL GUIDANCE FOR CORRELATING FIELD INDICATORS TO WETLAND TYPES, AND REGULATORY GUIDANCE REGARDING THE IDENTIFICATION OF JURISDICTIONAL STREAM CHANNELS THROUGH THE RECOGNITION OF FIELD INDICATORS OF AN ORDINARY HIGH WATER MARK WITHIN DRAINAGE FEATURES. FEATURES IDENTIFIED IN THE FIELD WERE LOCATED USING SUB-METER GPS EQUIPMENT. USING THE METHODOLOGIES, A PRELIMINARY WATERSHED FOR THE U.S. (WOTUS) DELINEATION WAS PRODUCED. JURISDICTIONAL FEATURES ON SITE HAVE NOT BEEN CONFIRMED BY THE U.S. ARMY CORPS OF ENGINEERS.

[illegible]

DATE	5/17/2023
DRAWN BY	DJH
DESIGNED BY	DJH
CHECKED BY	NJS
SCALE	1"=25'

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CORPORATE OFFICE

| Richmond,  
016 www.tin

DESIGN  
I

CHECK

1"

 $= 25'$ 

5

Site Development | Residential | Infrastructure | Technology

# JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA

# STORMWATER MANAGEMENT COMPLIANCE SHEET

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**DECLARATION OF NO IMPACT TO FLOODPLAIN**  
THIS PROJECT CONSISTS OF A PROPOSED TRAIL EXTENSION CONNECTING AN EXISTING CITY OF FAIRFAX TRAIL, WITH JUDICIAL DRIVE. WATER SURFACE ELEVATIONS FOR THE 100-YEAR FLOODPLAIN HAVE BEEN CALCULATED FOR EACH OF THE SECTIONS WITHIN THE PROJECT AREA FOR EXISTING AND PROPOSED SCENARIOS, AND COMPARISONS BETWEEN MODELED CONDITIONS AND THE EXISTING REGULATORY ELEVATIONS HAVE BEEN PROVIDED. THE PROPOSED CONDITIONS MODEL INDICATES THAT THERE WILL BE NO RISE IN THE FLOODPLAIN ELEVATIONS BETWEEN THE EXISTING AND PROPOSED CONDITIONS. A NO-RISE CERTIFICATION HAS BEEN INCLUDED. ALL EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED OUTSIDE OF THE LIMITS OF THE FLOODPLAIN DURING CONSTRUCTION ACTIVITIES, AND WILL BE REMOVED IN ITS ENTIRETY POST CONSTRUCTION. THERE IS TO BE NO PERMANENT STOCKPILING WITHIN THE LIMITS OF THE ACCOTINK CREEK ZONE AE FLOODPLAIN.

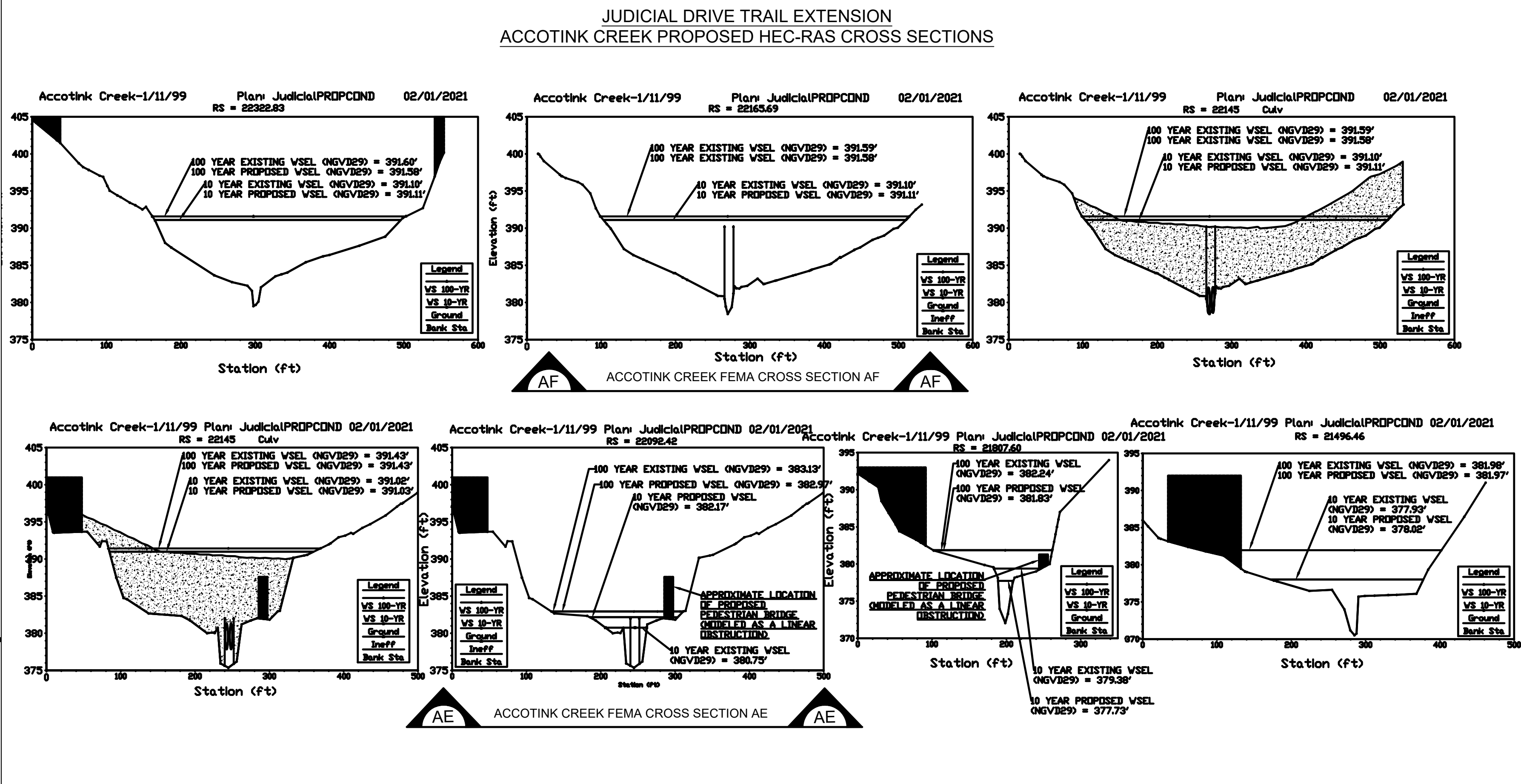
**HEC RAS CROSS SECTION - 22322.83**  
10 YEAR EXISTING WSEL (NGVD29) = 391.10'  
10 YEAR PROPOSED WSEL (NGVD29) = 391.11'  
100 YEAR EXISTING WSEL (NGVD29) = 391.60'  
100 YEAR PROPOSED WSEL (NGVD29) = 391.58'

**ACCOTINK CREEK FEMA CROSS SECTION - AE**  
HEC RAS CROSS SECTION - 22092.42  
10 YEAR EXISTING WSEL (NGVD29) = 380.75'  
10 YEAR PROPOSED WSEL (NGVD29) = 382.17'  
100 YEAR EXISTING WSEL (NGVD29) = 383.13'  
100 YEAR PROPOSED WSEL (NGVD29) = 382.97'

**ACCOTINK CREEK FEMA CROSS SECTION - AF**  
HEC RAS CROSS SECTION - 22165.69  
10 YEAR EXISTING WSEL (NGVD29) = 391.10'  
10 YEAR PROPOSED WSEL (NGVD29) = 391.11'  
100 YEAR EXISTING WSEL (NGVD29) = 391.59'  
100 YEAR PROPOSED WSEL (NGVD29) = 391.58'

NOTE: BASE SURVEY CONTOUR DATA HAS BEEN CONVERTED TO NGVD 29 FROM NAVD 88 FOR THE PURPOSES OF THIS STUDY.

THIS SHEET IS FOR  
INFORMATIONAL  
PURPOSES ONLY



EXISTING CONDITIONS VS. PROPOSED CONDITIONS - HEC-RAS PROFILE SUMMARY TABLE

HEC-RAS Locations: User Defined																									
River	Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl											
Accotink Creek	US of Chain Bri	22322.83	10-YR	JudicialEXCOND	800.00	379.50	391.10		391.10	0.000015	0.44	1816.88	331.38	0.02											
Accotink Creek	US of Chain Bri	22322.83	10-YR	Pr	800.00	379.50	391.11		391.11	0.000015	0.44	1821.17	331.59	0.02											
Accotink Creek	US of Chain Bri	22322.83	100-YR	JudicialEXCOND	1310.00	379.50	391.60		391.60	0.000032	0.66	1984.17	341.90	0.03											
Accotink Creek	US of Chain Bri	22322.83	100-YR	Pr	1310.00	379.50	391.58		391.58	0.000032	0.66	1978.25	341.44	0.03											
Accotink Creek	US of Chain Bri	22165.69	10-YR	JudicialEXCOND	800.00	378.44	391.10	384.51	391.10	0.000009	0.34	2496.77	407.25	0.02											
Accotink Creek	US of Chain Bri	22165.69	10-YR	Pr	800.00	378.44	391.11	384.51	391.11	0.000009	0.34	2502.09	407.50	0.02											
Accotink Creek	US of Chain Bri	22165.69	100-YR	JudicialEXCOND	1310.00	378.44	391.59	386.52	391.60	0.000018	0.52	2701.27	416.23	0.03											
Accotink Creek	US of Chain Bri	22165.69	100-YR	Pr	1310.00	378.44	391.58	386.51	391.58	0.000019	0.52	2694.15	415.92	0.03											
Accotink Creek	US of Chain Bri	22145		Culvert																					
Accotink Creek	US of Chain Bri	22092.42	10-YR	JudicialEXCOND	800.00	375.36	380.75	380.75	383.33	0.030324	12.88	62.10	55.56	1.00											
Accotink Creek	US of Chain Bri	22092.42	10-YR	Pr	800.00	375.36	382.17	380.74	382.43	0.003422	4.19	251.88	106.74	0.31											
Accotink Creek	US of Chain Bri	22092.42	100-YR	JudicialEXCOND	1310.00	375.36	383.13	382.00	383.52	0.004606	5.40	405.38	183.98	0.37											
Accotink Creek	US of Chain Bri	22092.42	100-YR	Pr	1310.00	375.36	382.97	382.00	383.42	0.005291	5.69	363.71	167.20	0.40											
Accotink Creek	US of Chain Bri	21807.60	10-YR	JudicialEXCOND	800.00	372.06	379.38		380.11	0.011278	7.06	136.40	57.29	0.54											
Accotink Creek	US of Chain Bri	21807.60	10-YR	Pr	800.00	372.06	377.73	377.73	379.57	0.042868	10.90	73.49	20.71	1.00											
Accotink Creek	US of Chain Bri	21807.60	100-YR	JudicialEXCOND	1310.00	372.06	382.24		382.43	0.002398	4.34	444.40	155.94	0.27											
Accotink Creek	US of Chain Bri	21807.60	100-YR	Pr	1310.00	372.06	381.83		382.11	0.003573	5.12	394.93	159.73	0.32											
Accotink Creek	US of Chain Bri	21496.46	10-YR	JudicialEXCOND	800.00	370.51	377.93		378.04	0.000847	2.14	401.84	202.62	0.15											
Accotink Creek	US of Chain Bri	21496.46	10-YR	Pr	800.00	370.51	378.02		378.13	0.000719	1.99	420.72	206.00	0.14											
Accotink Creek	US of Chain Bri	21496.46	100-YR	JudicialEXCOND	1310.00	370.51	381.98		382.01	0.000038	0.84	1412.08	269.92	0.04											
Accotink Creek	US of Chain Bri	21496.46	100-YR	Pr	1310.00	370.51	381.97		382.00	0.000038	0.84	1409.99	269.87	0.04											

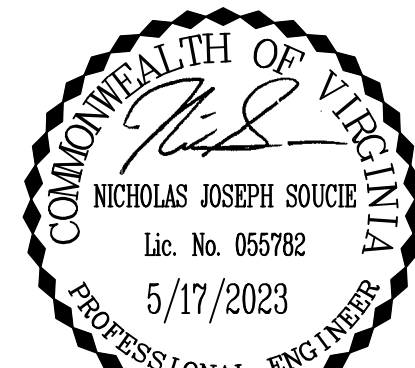
**HEC RAS CROSS SECTION - 21807.61**  
10 YEAR EXISTING WSEL (NGVD29) = 379.38'  
10 YEAR PROPOSED WSEL (NGVD29) = 377.73'  
100 YEAR EXISTING WSEL (NGVD29) = 382.24'  
100 YEAR PROPOSED WSEL (NGVD29) = 381.83'

**HEC RAS CROSS SECTION - 21496.46**  
10 YEAR EXISTING WSEL (NGVD29) = 377.93'  
10 YEAR PROPOSED WSEL (NGVD29) = 378.02'  
100 YEAR EXISTING WSEL (NGVD29) = 381.98'  
100 YEAR PROPOSED WSEL (NGVD29) = 381.97'

NO-RISE CERTIFICATION

This document is to certify that I am a duly qualified engineer licensed to practice in the Commonwealth of Virginia. It is to further certify that the attached technical data supports the fact that the proposed Judicial Drive Trail project will not increase the base flood elevations, floodway elevations, or impact the floodway widths on Accotink Creek at published cross-sections in the Flood Insurance Study for City of Fairfax (Community Number 515524), effective date June 2, 2006, and will not increase the base flood elevations, floodway elevations, or impact the floodway width at unpublished cross-sections in the area of the proposed development.

IMPERVIOUS SURFACE IN FLOODPLAIN: 0.02 AC (APPROX.)  
AREA OF FLOODPLAIN VEGETATION DISTURBED: 0.25 AC (APPROX.)  
AREA OF FLOODPLAIN LAND GRADED: 0.25 AC (APPROX.)  
MAXIMUM DEPTH OF CUT OR FILL ON FLOODPLAIN LAND: MAX 3 FT FILL (APPROX.) / MAX 2 FT CUT (APPROX.)  
PRE-DEVELOPMENT VELOCITIES  
ON SITE: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
UPSTREAM: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
DOWNSTREAM: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
POST-DEVELOPMENT VELOCITIES  
ON SITE: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
UPSTREAM: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
DOWNSTREAM: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
BASE ELEVATION OF LOWEST LEVEL: SEE HEC-RAS PROFILE SUMMARY TABLE - THIS SHEET  
MARKET VALUE OF EXISTING STRUCTURE: N/A  
VALUE OF PROPOSED WORK: N/A



REVISION DESCRIPTION		DATE	

	5/17/2023
DRAWN BY	DJH
DESIGNED BY	DJH
CHECKED BY	NJS
SCALE	1"=30'

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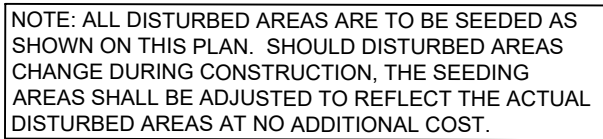
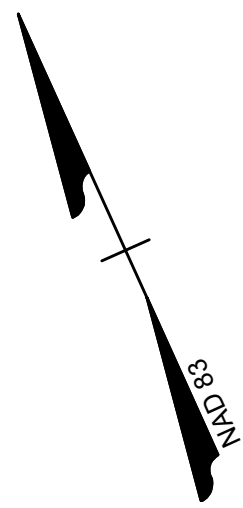
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Plant Schedule							
Quantity	Scientific Name	Common Name	Indicator Status	Size at Planting	Spacing	Native	Plant Notes
23%	Panicum clandestinum	Dichanthellum	FACW	Seed Mix	N/A	Yes	Seed mix to be spread at a rate of 20lbs/acre.
15%	Elymus virginicus, "Suther"	Virginia Wildrye, "Suther"	FACW	Seed Mix	N/A	Yes	
15%	Sorghastrum nutans	Indiangrass	FACW	Seed Mix	N/A	Yes	
10%	Panicum anceps	Beaked Panicgrass	FAC	Seed Mix	N/A	Yes	
10%	Poa palustris	Fowl Bluegrass	FACW	Seed Mix	N/A	Yes	
8%	Andropogon gerrardii	Big Bluestem Niagra	FAC	Seed Mix	N/A	Yes	
5%	Panicum virgatum, "Blackwell"	Blackwell Switchgrass	FACW	Seed Mix	N/A	Yes	
2%	Agrostis perennans	Autumn Bentgrass	FACW	Seed Mix	N/A	Yes	
2%	Eupatorium fistulosum	Joe Pye Weed	FACW	Seed Mix	N/A	Yes	
2%	Eupatorium perfoliatum	Bonaset	FACW	Seed Mix	N/A	Yes	
2%	Helienium autumnale	Common Sneezeweed	FACW	Seed Mix	N/A	Yes	Landscape Plan for total seed mix requirements
2%	Senna herbecarpa	Cassia	FAC	Seed Mix	N/A	Yes	
2%	Verbena hastata	Blue Vervain	FACW	Seed Mix	N/A	Yes	
2%	Vernonia noveboracensis	New York Ironweed	FACW	Seed Mix	N/A	Yes	
1%	Hibiscus moscheutos	Crimsoneyed Rosemallow	OBL	Seed Mix	N/A	Yes	

Note: Seed mix from Ernst Seed. Item Number ERNMX-852. Seeding Rate = 20 lbs/acre. Mix formula may change depending on seed availability

**PLAN VIEW**

**SECTION A-A**

4" LAYER OF MULCH  
PLANTING MIX  
1 PART PEAT,  
1 PART SAND,  
1 PART EXISTING SOIL  
FINISH GRADE

12" MIN.

### NOTES:

1. See detail 921.06 for planting notes
2. Layout plants in prepared bed as shown.
3. Spacing as specified, per schedule staggered rows.

Department of Public Works  
10455 Armstrong Street  
Fairfax, VA 22030-3630


**CITY of FAIRFAX**  
USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY

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FAX (703) 591-5727  
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## GROUND COVER PLANTING DETAIL

SCALE:  
Not To Scale  
REVISION DATE:  
July, 2005

DETAIL #  
2 921.05  
SHEET #:  
1 of 1

<b>I. General</b>											
<p>1. Landscape Specifications: Landscape specifications shall be as outlined below. Any item or procedure not mentioned below shall be as specified in the Landscape specification guidelines published by the landscape Contractors Association (latest edition).</p> <p>2. Plant Materials: The landscape Contractor shall furnish and install and/or dig, ball, burlap, and transplant all of the plant materials called for on the drawings and/or listed in the plant schedule.</p> <p>3. Plant Names: Plant names used in the plant schedule shall be identified in accordance with Hortus Third, by L.H. Bailey, 1976.</p> <p>4. Plant Standards: All plan materials shall be equal to or better than the requirements of the "American Standard for Nursery Stock," latest edition, as published by the American Association of Nurseryman (hereinafter referred to as AAN standards). All plants shall be typical of their species and variety, shall have a normal habit of growth, and shall be first quality, sound, vigorous, well branched, and with healthy, well-furnished root systems. They shall be free of disease, insect pests, and mechanical injuries.</p> <p>(A) All plants shall be nursery grown and shall have been grown under the same climatic conditions as the location of the subject project for at least two years before planting. Neither heeled-in plant, nor plants from cold storage will be accepted.</p> <p>(B) Collected plants or transplanted trees may be called for by the landscape architect and used, provided, however, that locations and soil conditions will permit proper balling.</p> <p>5. Materials for Planting:</p> <p>(A) Stakes for buying trees shall be sound oak or other approved hardwood. Three stakes spread 120-degrees apart shall be used near tree. See details.</p> <p>(B) Wrapping materials for tree trunks: Clean burlap of 8-oz. weight cut in 8-inch to 10-inch wide strips of water resistant paper or tape for this purpose. Twine for tying shall be medium jupe twine.</p> <p>(C) Tree Guys: Provide wire ties and guys of 2-strand, twisted, pliable galvanized steel wire not lighter than 12-gauge with zinc coated turnbuckles. Provide w-ply garden hose not less than 0.5-inch hose size, cut to lengths to protect tree trunks from damage by wires.</p> <p>(D) Mulching: Mulch shall consist of double shredded hardwood mulch.</p> <p>6. Planting Schedule: A professional horticulturist/nurseryman shall be consulted to determine the proper time, based on plant species and weather conditions, to move and install particular plant materials to minimize stress to the plant. Planting of deciduous material may be continued during the winter months provided there is no frost on the ground and frost-free soil planting mixtures are used.</p>											
	<table border="1"><tr><td colspan="2">Department of Public Works 10455 Armstrong Street Fairfax, VA 22030-3630</td></tr><tr><td colspan="2"><b>CITY of FAIRFAX</b> USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY</td></tr><tr><td colspan="2"><b>PLANTING NOTES</b> <b>DETAIL</b></td></tr><tr><td>SCALE Not To Scale</td><td>DETAIL # ± 92.1.06</td></tr><tr><td>REVISION DATE July, 2005</td><td>SHEET # 1 of 2</td></tr></table>	Department of Public Works 10455 Armstrong Street Fairfax, VA 22030-3630		<b>CITY of FAIRFAX</b> USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY		<b>PLANTING NOTES</b> <b>DETAIL</b>		SCALE Not To Scale	DETAIL # ± 92.1.06	REVISION DATE July, 2005	SHEET # 1 of 2
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Voice (703) 246-6330 FAX (703) 591-5727 www.fairfaxgov.gov											

**II. Planting Execution**

1. Excavation of Plant Pits
  - (A) Circular Pits, with vertical sides shall be excavated for all plants. The diameter of the holes shall be 12-inches greater than the diameter of the ball for trees, or 1.5 times the diameter of shrubs, balls, and container stock pots.
  - (B) The depth of pits for all plants shall be 6-inches deeper than the ball or container depth.
  - (C) Obstructions encountered in excavated or planted areas shall be removed or plants relocated as approved.
  - (D) Plants shall be planted plumb, at the same grade as in the nursery (in relation to finished grade); tamp topsoil under and around base of ball to fill all voids. Remove all burlap, ropes, and wires from sides and tips of balls, but do not remove burlap from under ball. Thoroughly water when hole is two-thirds full of topsoil. After watering, 3" of mulch shall be applied over a 4" earth berm to create a shallow watering basin around the tree.
  - (E) All shrubs to be planted in conformance with deciduous shrub planting detail 901.04.

**III. Staking, Guying and Wrapping**

1. Each tree or evergreen shall be immediately staked or guyed.
  - (A) Deciduous tree 2-2.5" caliper or larger and all evergreen trees shall be staked and guyed with three 2" x 2" x 6' hardwood staked per tree, spread 120-degrees apart. All hardwood stakes are to be driven no less than two feet below planting grade and at ten feet from the tree. A double strand of 12-gauge galvanized wire shall be twisted and threaded through 0.5-inch garden hose to protect the tree trunk and secured to the hardwood stake.
  - (B) The 12-gauge galvanized wire shall be placed at a 45-degree angle from the tree to the stake. See deciduous tree with typical guying planting detail.
2. Wrap all deciduous trees. Wrapping shall extend from ground line to second branch. Overlap tree wrap by 50 percent.

**IV. Plant Pruning, Edging, and Mulching**

1. Pruning shall be by experienced landscape contractors. Remove broken or damaged branches and roots. Cut back and thin deciduous material to retain two-thirds of the initial branches. Cut back evergreens to give compact uniform appearance. Damaged or pruned tree leaders shall be cause for rejection.
2. If foliage is present on deciduous plant material, they shall be sprayed with an anti-desiccant, which slows down the transpiration process, through reducing the danger of dehydration.
3. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit.
4. After cultivation, all plant materials shall be mulched with a three-inch layer of double shredded mulch over the entire area of the bed or saucer.

THIS DRAWING PREPARED AT THE  
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**TIMMONS GROUP**

Site Development | Residential | Infrastructure | Technology

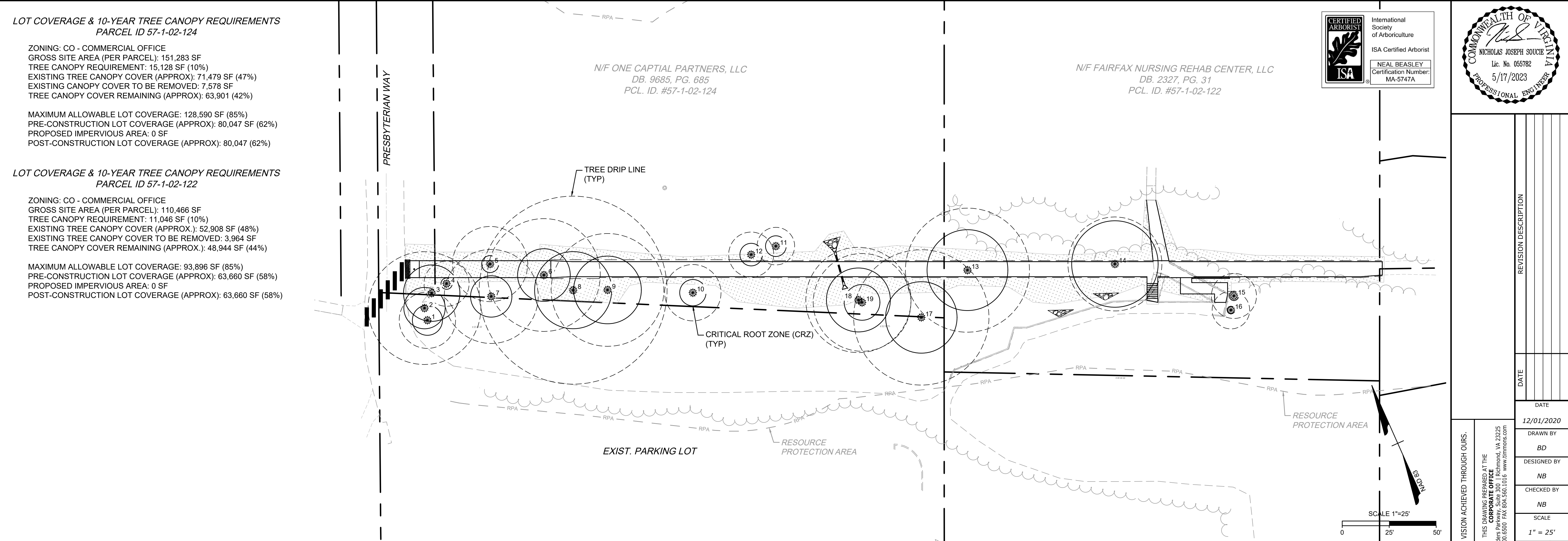
# JUDICIAL DRIVE TRAIL

CITY OF FAIRFAX - VIRGINIA  
LANDSCAPING PLAN

JOB NO.  
41013.00  
SHEET NO.

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TREE ASSESSMENT KEY

No.	Botanical Name	Common Name	Condition, Overall	Canopy Radius (ft.)	DBH (in.)	CRZ (ft.)	Construction Impact
1	Acer rubrum	Red Maple	Fair	15	16	16	No Impact
2	Acer rubrum	Red Maple	Good	30	22	22	No Impact
3	Robinia pseudoacacia	Black Locust	Fair	15	30	30	Likely Requires Removal
4	Oxydendrum arboretum	Sourwood	Poor	12	6	6	Requires Removal
5	Quercus rubra	Red Oak	Fair	20	9	9	Requires Removal
6	Liriodendron tulipifera	Tulip Poplar	Fair	30	28	28	Requires Removal
7	Liriodendron tulipifera	Tulip Poplar	Fair	25	22	22	No Impact
8	Acer rubrum	Red Maple	Fair	50	41	41	Likely Requires Removal
9	Acer rubrum	Red Maple	Fair	30	36	36	Likely Requires Removal
10	Liriodendron tulipifera	Tulip Poplar	Fair	15	14	14	No Impact
11	Carya spp.	Hickory	Fair	10		11	No Impact
12	Carya spp.	Hickory	Fair	12	12	12	Likely Requires Removal
13	Acer rubrum	Red Maple	Fair	33	43	43	Requires Removal
14	Liriodendron tulipifera	Tulip Poplar	Fair	25	46	46	Requires Removal
15	Ilex attenuata 'Fosteri'	Foster's Holly	Fair	12	5	5	No Impact
16	Ilex attenuata 'Fosteri'	Foster's Holly	Fair	10	4	4	No Impact
17	Liriodendron tulipifera	Tulip Poplar	Good	36	38	38	No Impact
18	Liriodendron tulipifera	Tulip Poplar	Fair	28	34	34	Likely Requires Removal
19	Acer rubrum	Red Maple	Fair	26	19	19	No Impact

NOTES:

- ONLY TREES WITH A DBH OF 5" OR GREATER WERE ASSESSED AS PART OF THIS PROJECT.

- THIS TREE ASSESSMENT WAS PERFORMED BY AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST.

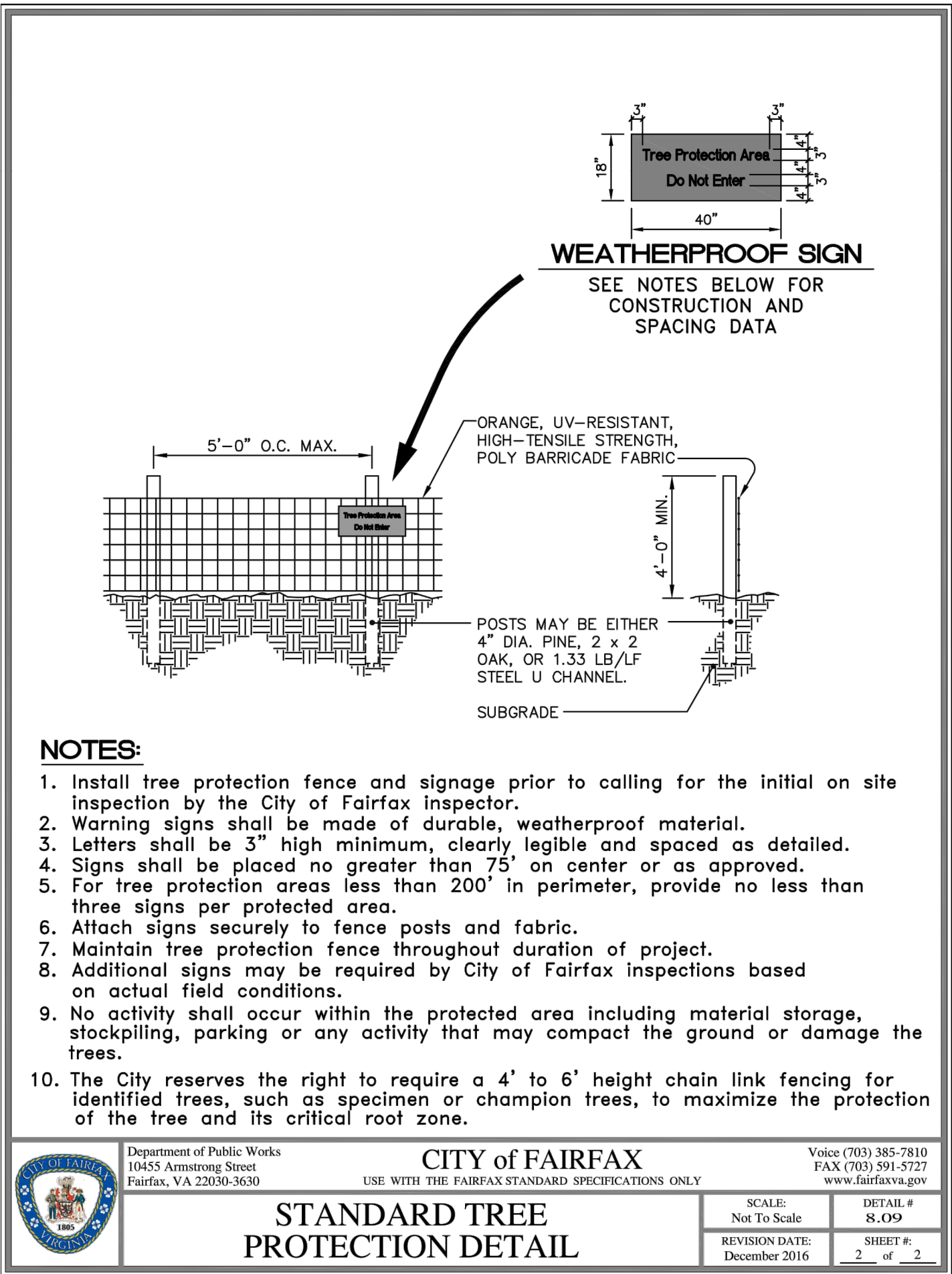
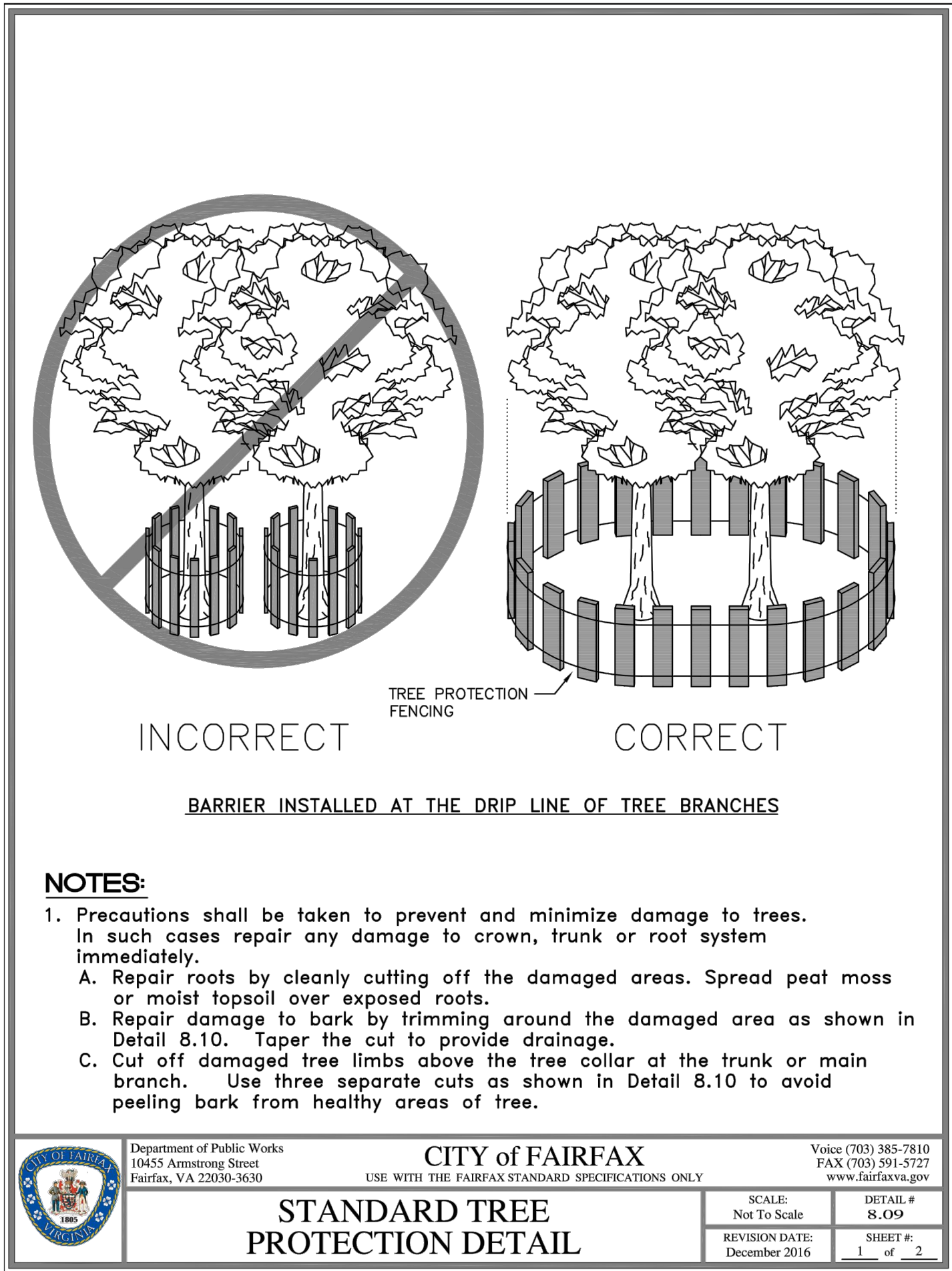
- CONDITION EVALUATIONS ARE BASED ON A VISUAL OBSERVATION OF EACH INDIVIDUAL TREE USING A RATING SCALE OF EXCELLENT, GOOD, FAIR, POOR AND DEAD. ASPECTS USED DURING AN EVALUATION INCLUDE, BUT ARE NOT LIMITED TO TRUNK HEALTH, TRUNK STRUCTURE, BRANCHING STRUCTURE AND BRANCH AND TWIG HEALTH.

- ALL TREES ASSESSED AS PART OF THIS PROJECT ARE NATIVE SPECIES TO THE REGION. NO INVASIVE TREE SPECIES WERE FOUND.

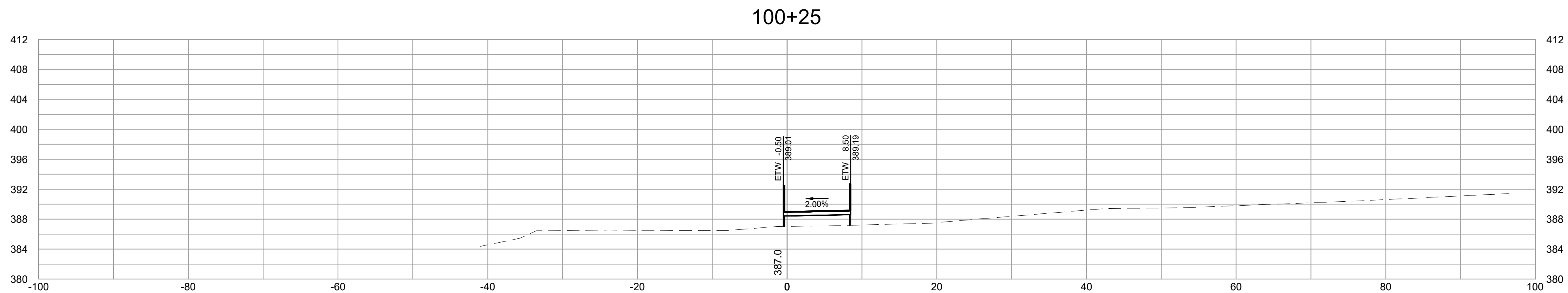
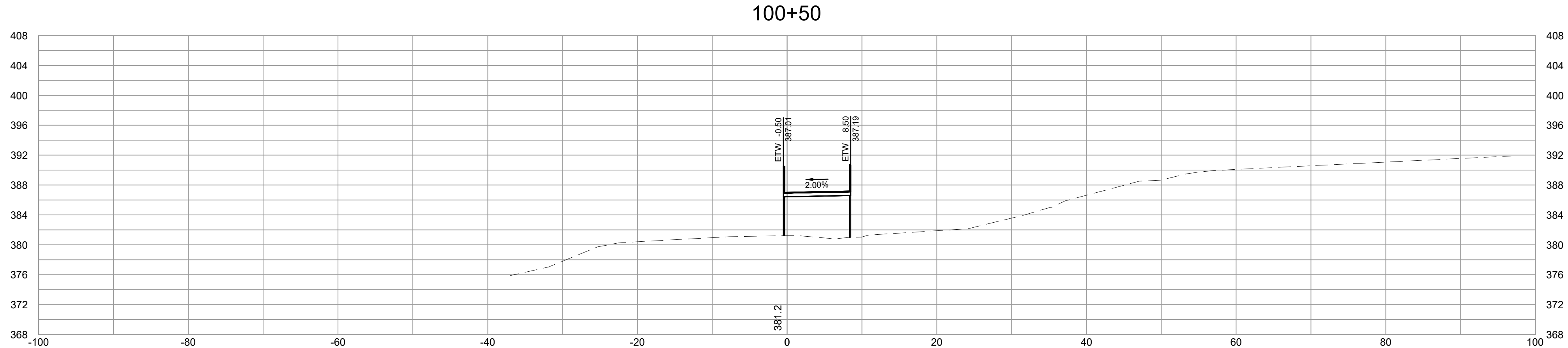
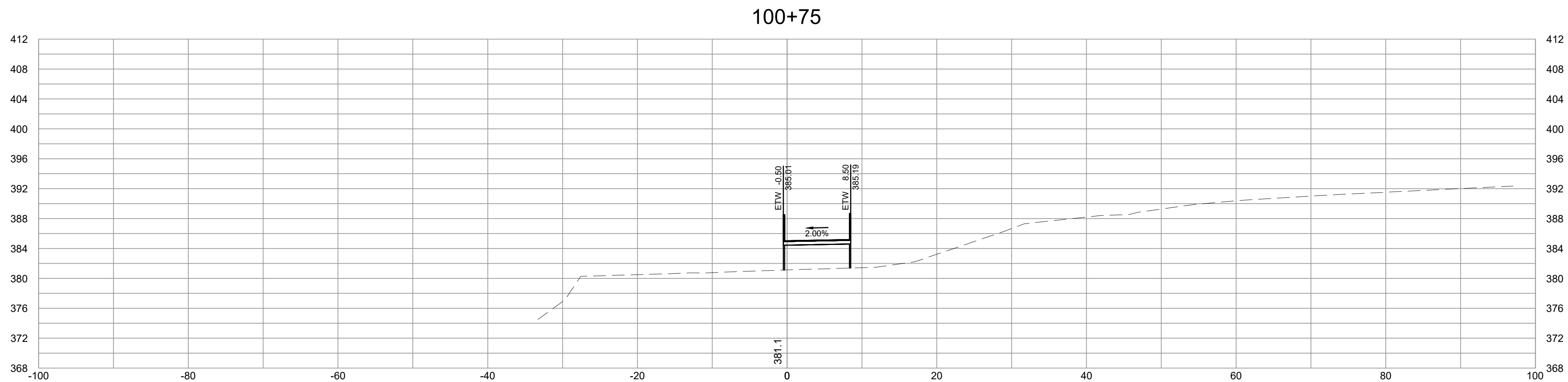
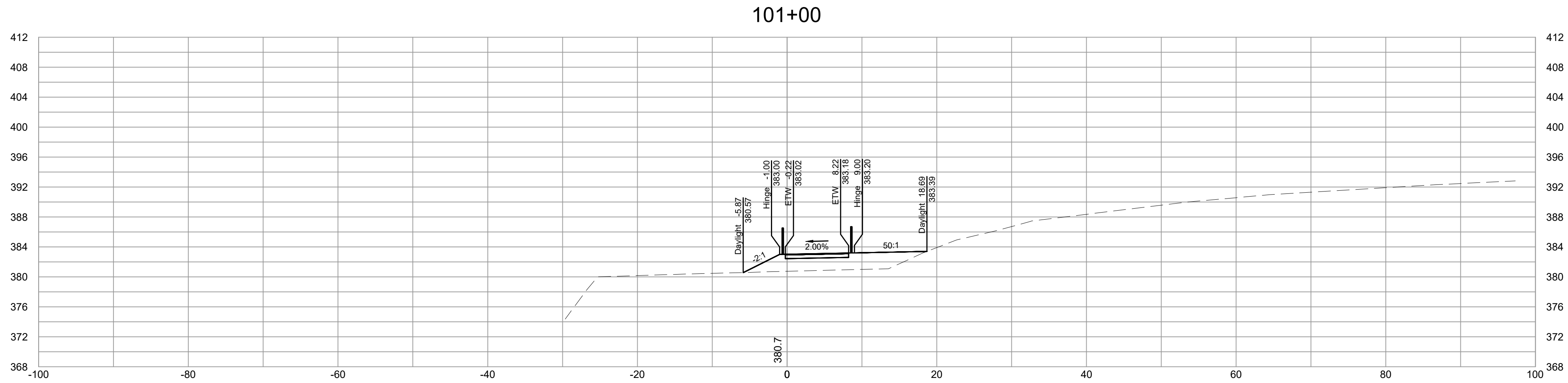
- CRITICAL ROOT ZONE IS MEASURED 1 FOOT DIAMETER FOR EVERY 1 INCH OF DBH (DIAMETER BREST HEIGHT OR 4.5 FEET ABOVE FINISH GRADE)

- SOME TREES ARE DENOTED AS "LIKELY REQUIRES REMOVAL". THE CONTRACTOR SHALL INTERPRET THIS LABEL AS A DIRECTIVE TO REMOVE THE TREE. HOWEVER, BECAUSE TREES WITH THIS LABEL ARE IN SOME CASES LOCATED ON THE FRINGE OF LOD OR IN AREAS OF MINIMAL GRADING, REMOVAL MAY NOT ALWAYS BE NECESSARY. SHOULD THE CONTRACTOR DETERMINE THAT REMOVAL OF A PARTICULAR TREE IS NOT NECESSARY IN ORDER TO PERFORM SITE WORK, THEN THE TREE SHALL REMAIN AND STANDARD TREE PROTECTION SHALL BE INSTALLED PER CITY ST'D. 8.09.

- ALL TREES DENOTED AS "NO IMPACT" SHALL HAVE STANDARD TREE PROTECTION INSTALLED PER CITY ST'D. 8.09.



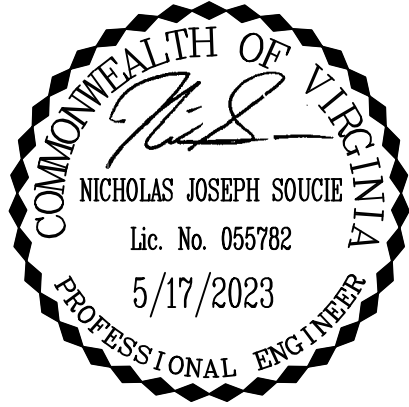
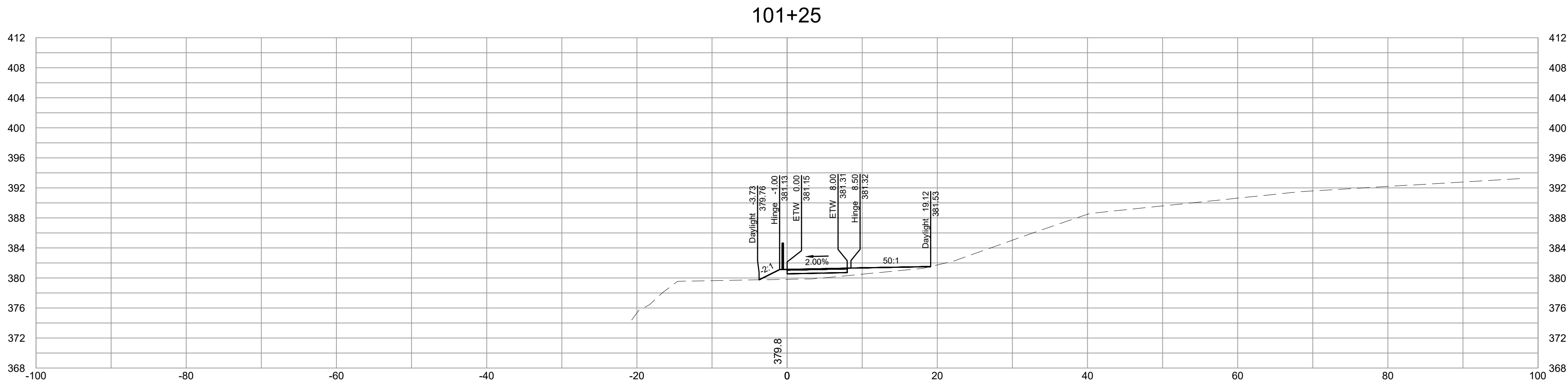
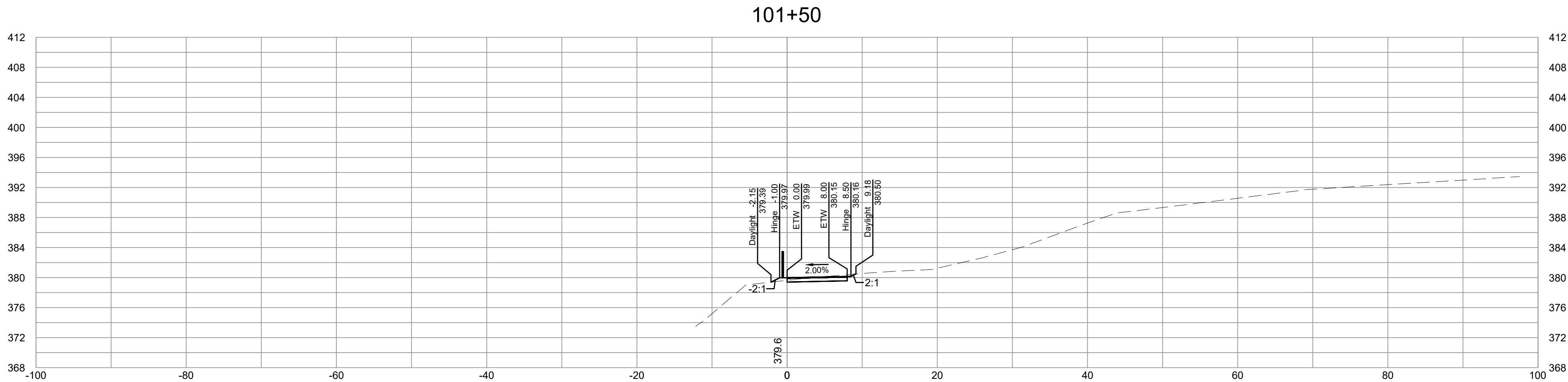
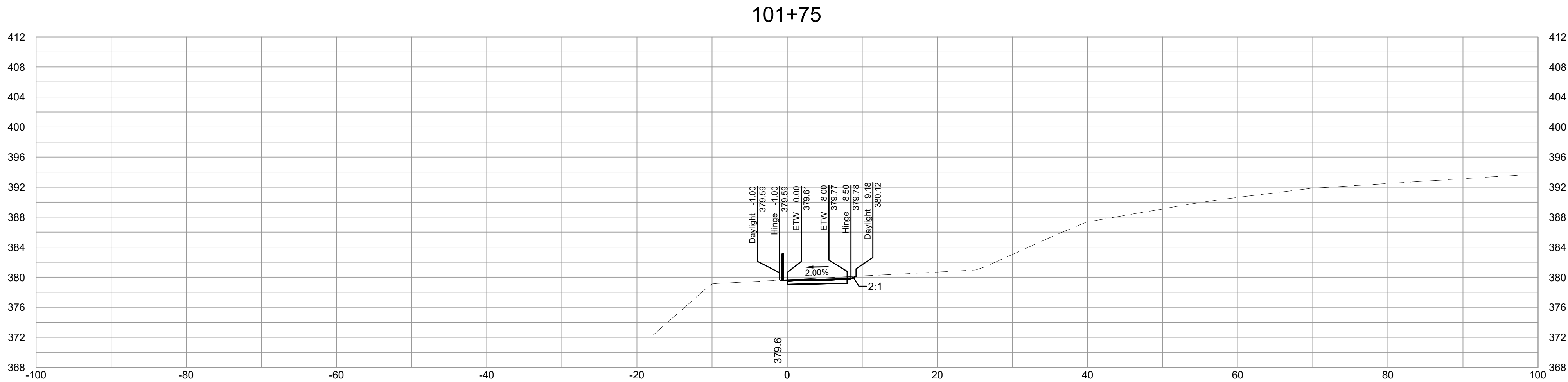
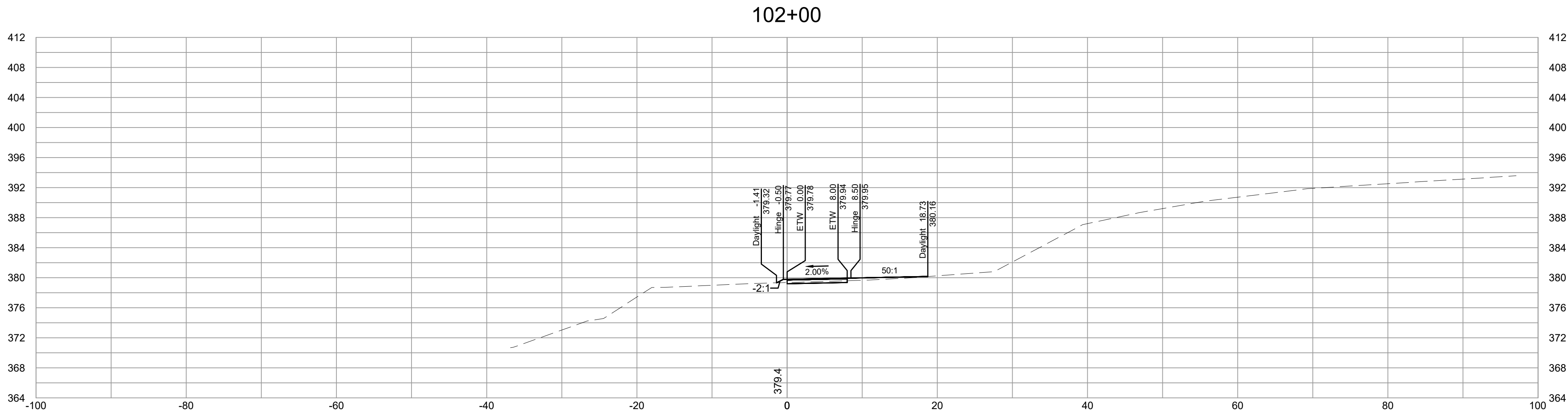




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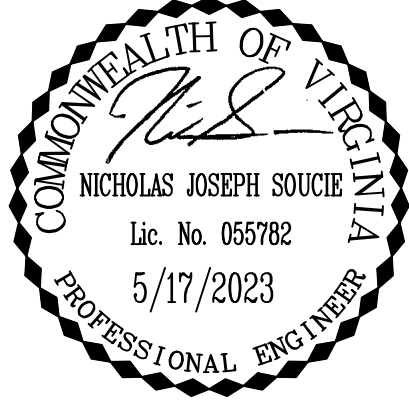
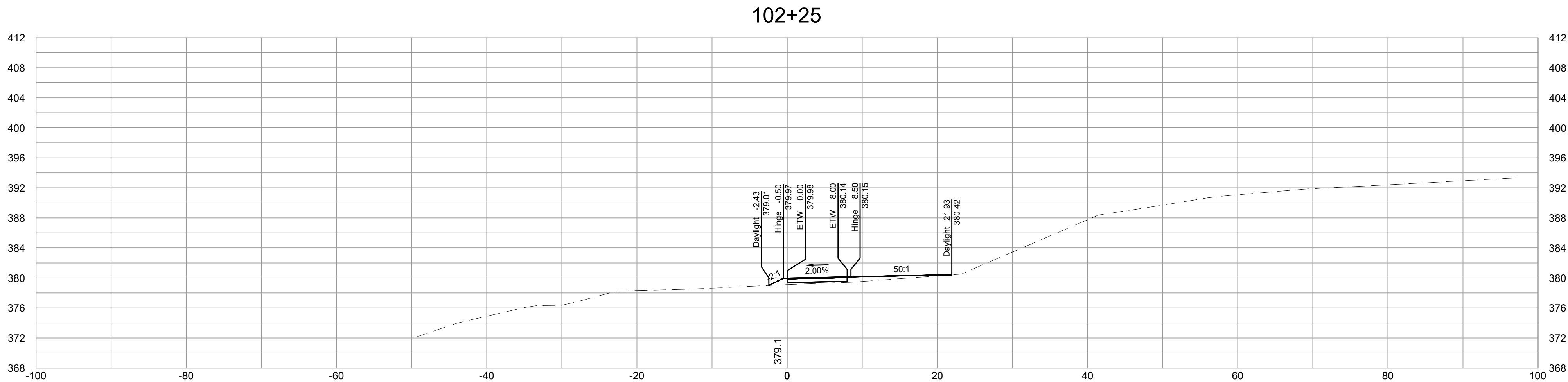
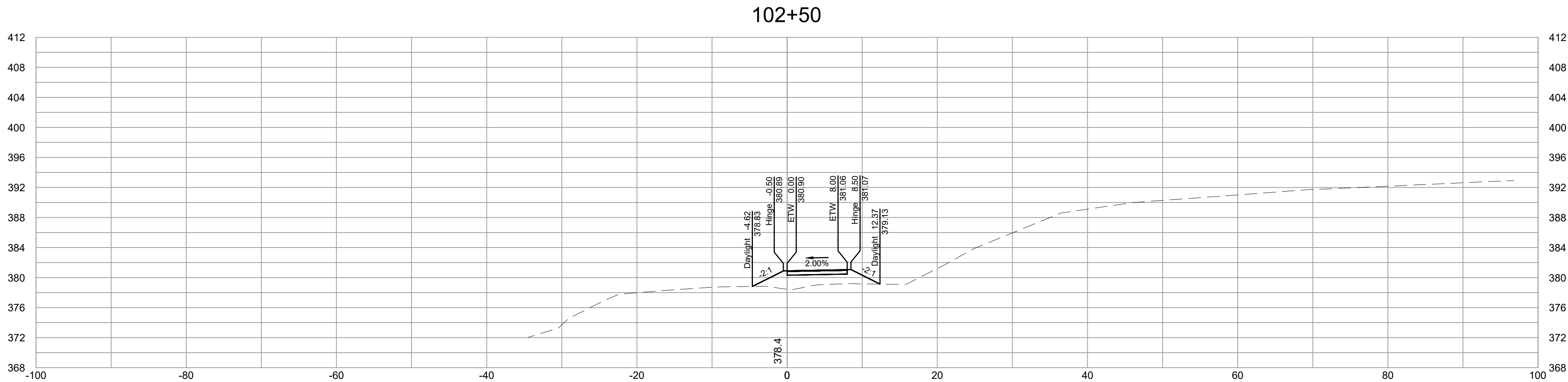
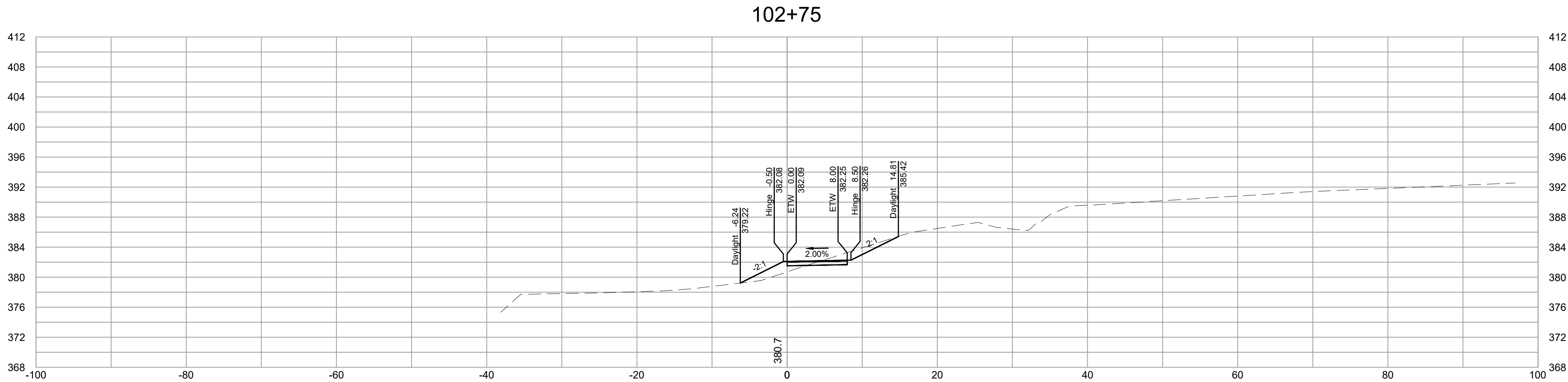
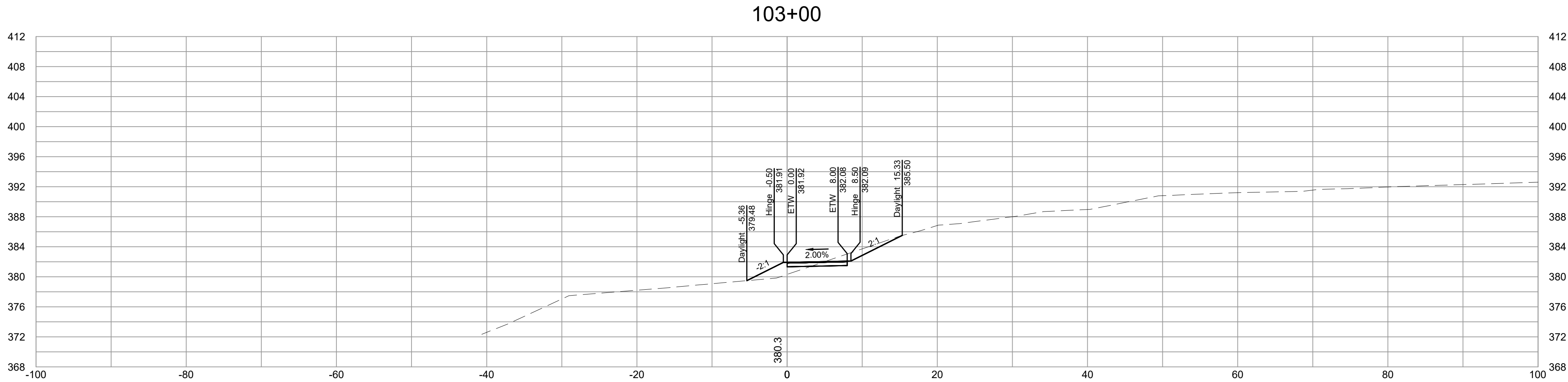
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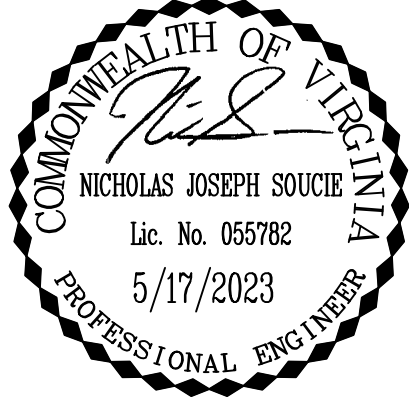
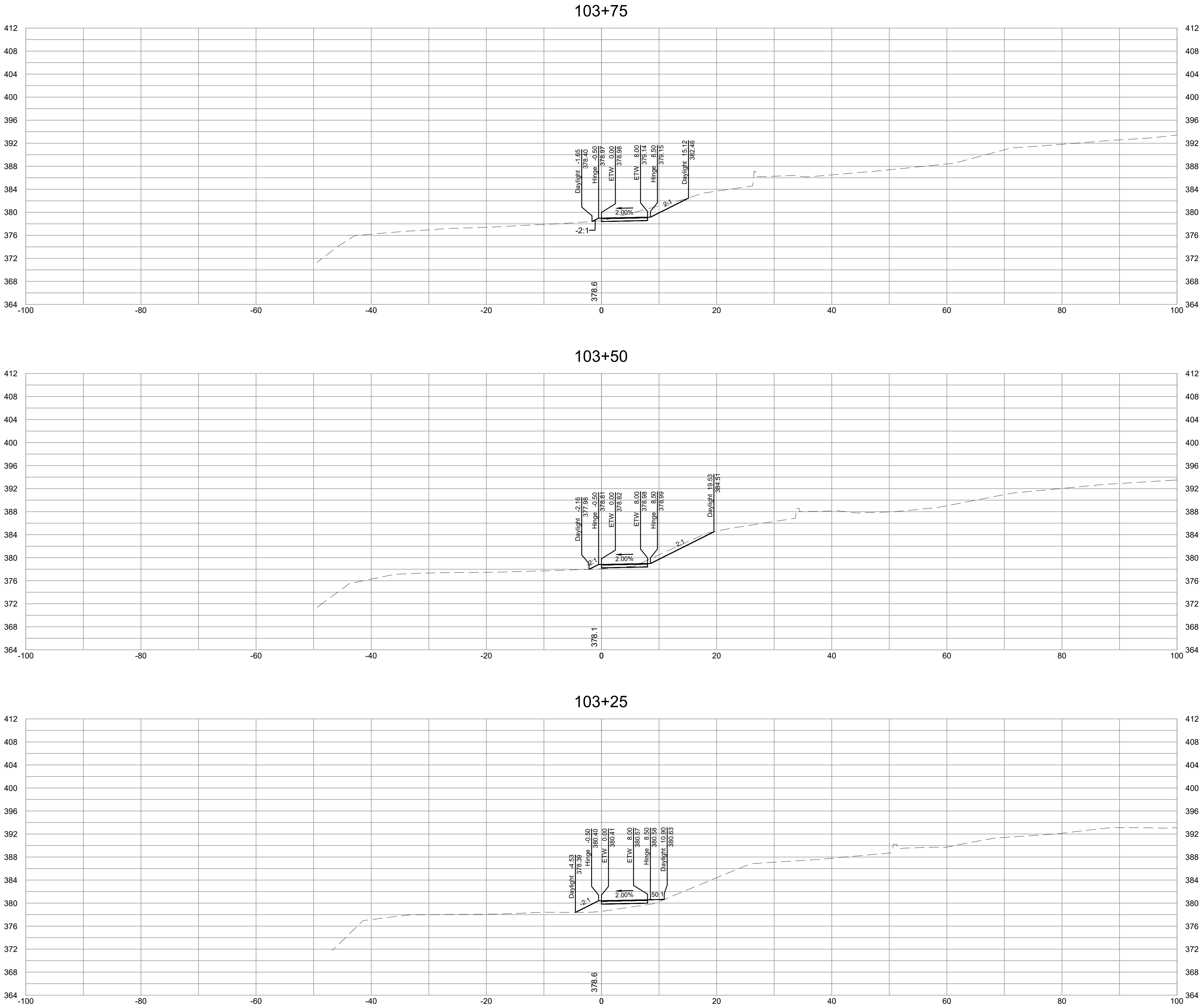
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