ENGINEER DEPARTMENT OF **ENVIRONMENTAL SERVICES**

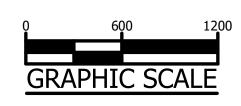
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FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2100 CLARENDON BOULEVARD, SUITE 813 ARLINGTON, VA 22201 PHONE: 703.228.3629 FAX: 703.228.3606

OWNER DES/OD/WSS

CONTRACTOR TO BE DETERMINED LOCATION MAP





ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES



APPROVALS

QUALITY CONTROL ENGINEER

WATER, SEWER, STREETS BUREAU CHIEF

PROJECT MANAGER

REVISIONS

GENERAL NOTES:

N INGLEWOOD ST TO N KENILWORTH ST

GENERAL CONSTRUCTION NOTES

PROJECT NUMBER: Z313

ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.

CONSTRUCTION DRAWINGS FOR:

15TH STREET N

- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- . THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES

BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.

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

STORMWATER AND ENVIRONMENTAL PROTECTION

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

TREE PROTECTION

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

TRAFFIC CONTROL

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

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

18. UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY

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

FIRE DEPARTMENT NOTES:

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

SHEET LIST TABLE

C006.1	LEGEND
C011.1	EXISTING CONDITIONS PLAN
C021.1	DEMOLITION PLAN
C031.1	EROSION AND SEDIMENT CONTROL PLAN
C032.1	EROSION AND SEDIMENT CONTROL NOTES
C032.2	EROSION AND SEDIMENT CONTROL NOTES AND DETAIL
C032.3	EROSION AND SEDIMENT CONTROL NOTES AND DETAIL
C032.4	EROSION AND SEDIMENT CONTROL NOTES AND DETAIL
C035.1	STORMWATER POLLUTION PREVENTION PLAN
C035.2	STORMWATER POLLUTION PREVENTION PLAN 1
C041.1	PLAN AND PROFILE STA 8+00 TO 13+00
C041.2	PLAN AND PROFILE STA 13+00 TO 17+75
C042.1	RAMP DETAILS CR-1
C042.2	RAMP DETAILS CR - 2, 3 & 4
C042.3	RAMP DETAILS CR-5 & 6
C043.1	CURB RETURN PROFILE CR-1 TO CR-6
C044.1	CROSS SECTIONS - STA 8+26 TO STA 13+75
C044.2	CROSS SECTIONS - STA 14+01 TO STA 17+50
C045.1	GEOMETRIC CONTROL PLAN 1
C045.2	GEOMETRIC CONTROL PLAN 2
C071.1	STORM SEWER DRAINAGE DIVIDES
C073.1	STORM SEWER PROFILES
C091.1	LANDSCAPE PLAN
C091.2	LANDSCAPE NOTES & DETAILS
C101.1	SIGNING AND PAVEMENT MARKING PLAN
C121.1	MAINTENANCE OF TRAFFIC PLAN
C121.2	MAINTENANCE OF TRAFFIC PLAN
C122.1	MAINTENANCE OF TRAFFIC NOTES & DETAILS
C122.2	MAINTENANCE OF TRAFFIC NOTES & DETAILS 1
0400.4	MAINTENANCE OF TRAFFIC RETOUR BLAN

MAINTENANCE OF TRAFFIC DETOUR PLAN

TURNING MOVEMENT EXHIBIT

TURNING MOVEMENT EXHIBIT 2

TURNING MOVEMENT EXHIBIT 3

TURNING MOVEMENT EXHIBIT 4

Sheet Number

COVER

TYPICAL SECTION

SWALE DETAIL

C000.1

C001.1

C002.1

C200.1

C200.2

C200.3

C200.4

The project proposes curb and gutter, sidewalk, driveway and storm drainage infrastructure, the project will also include a planted utility strip improvement

SWM 23-0068

280 vehicles per day - N 15TH STREET - 2018 ARLINGTON 40 vehicles per day - N 16TH STREET - 2018 ARLINGTON

STREET CLASSIFICATION

15TH STREET N , N INGLEWOOD ST , N IVANHOE ST , N JEEFERSON ST , N KENILWORTH ST - NEIGHBORHOOD RESIDENTIAL LOCAL STREET

POSTED SPEED

15TH STREET N - 25 MPH N IVANHOE ST - 25 MPH

N KENILWORTH ST - 25 MPH N JEFFERSON ST - 25 MPH

STR Z313 \mathbf{C}

DESIGNED: V. ROLLAMAS

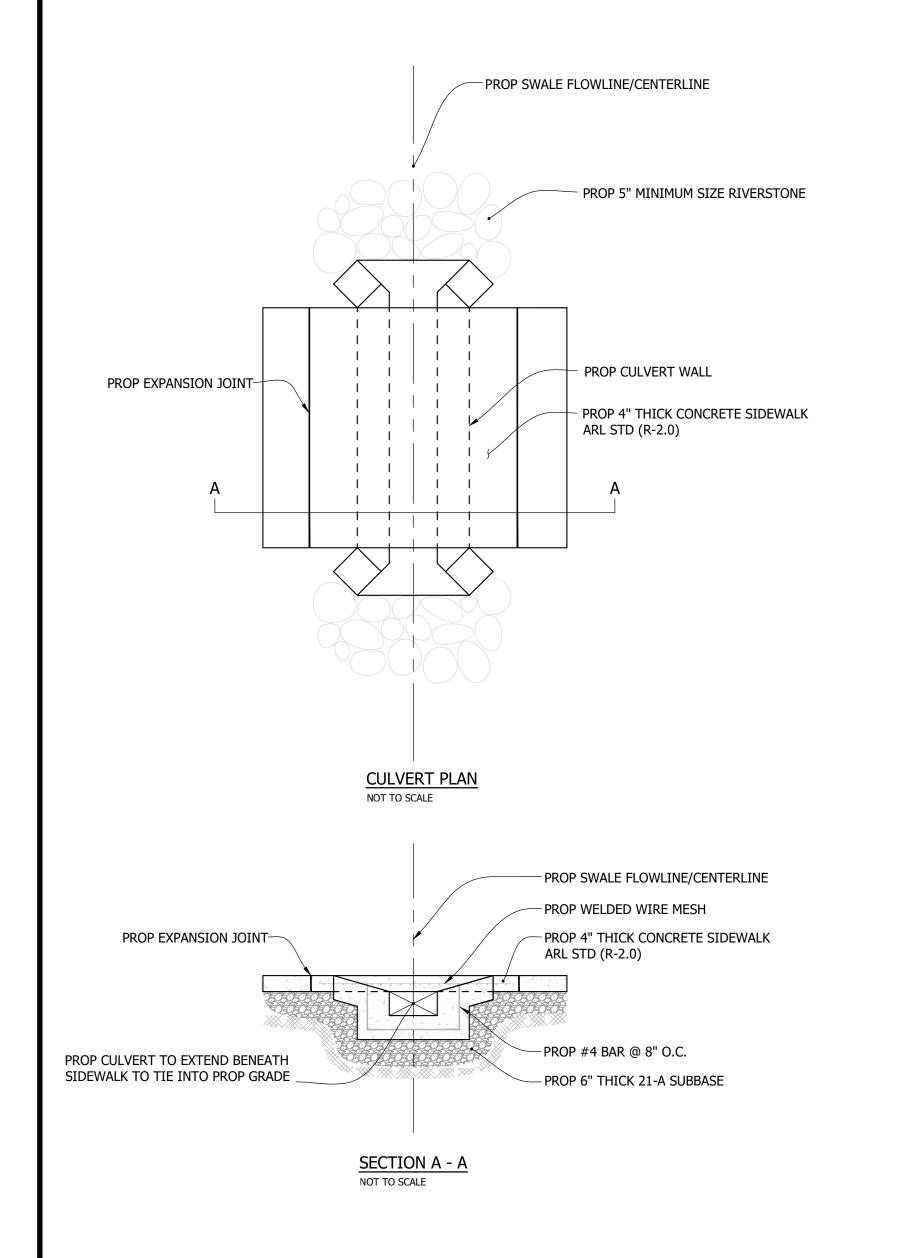
DRAWN: V. ROLLAMAS CHECKED: G. SQUARCIAFICO

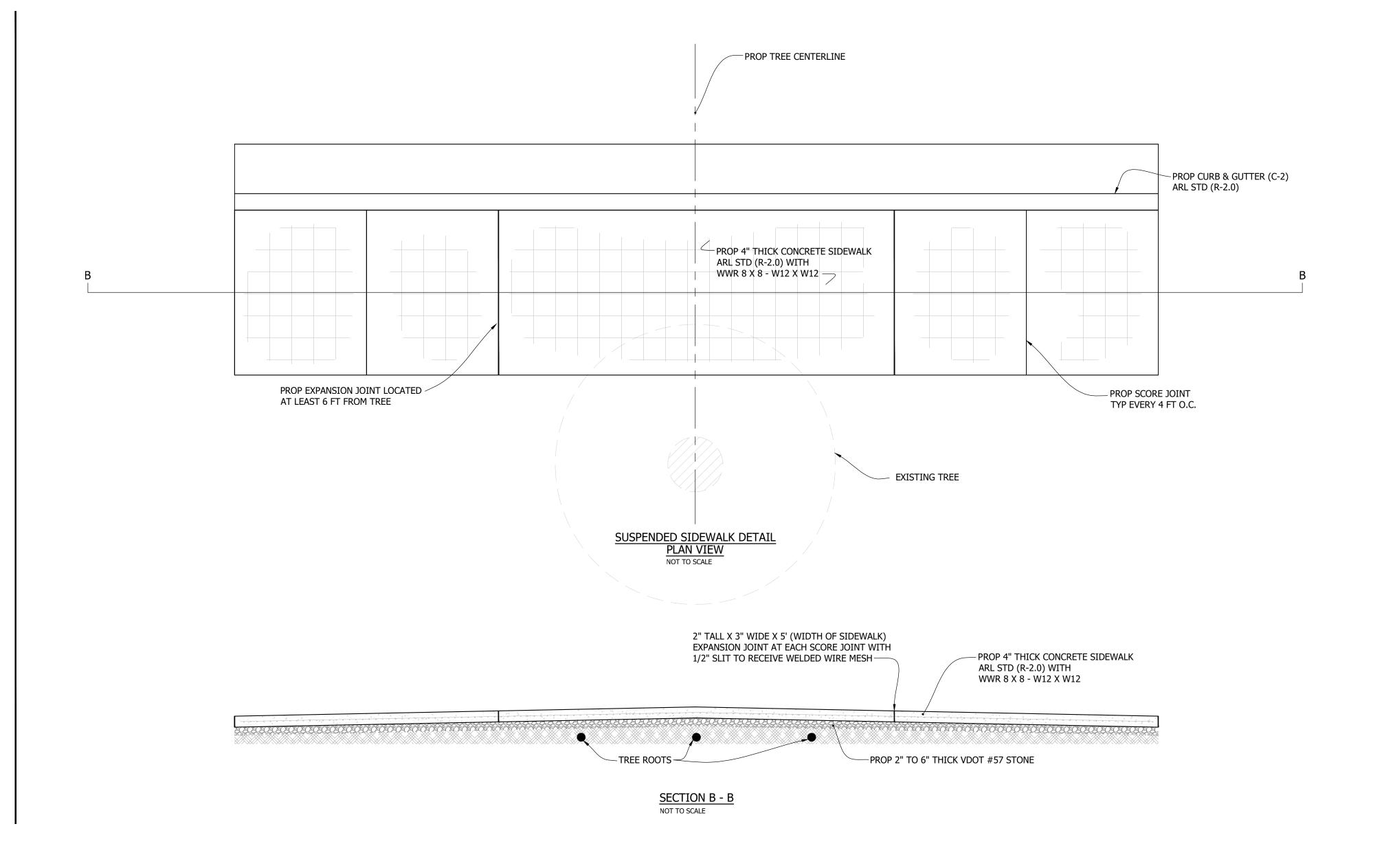
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SCALE:

AS NOTED

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ARLINGTON VIRGINIA

DEPARTMENT OF

ENVIRONMENTAL SERVICES

FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU

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SEAL

OF NEALTHOR

APPROVALS

DATE

CONSTRUCTION MANAGEMENT SUPERVISOR

9/11/2023

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

9/12/2

PROJECT MANAGER

REVISIONS

INEVISIONS D

STREET N Z313 TO N KENILWORTH ST

15TH STREE Z313 INGLEWOOD ST TO N KE

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 30 2023

SCALE:

AS NOTED

C002.1

<u>FEATURE</u>

BUILDING

CONTOURS

EASEMENT

FIBER OPTIC

GAS LINE

X" GAS LINE

GUARDRAIL

HARDSCAPE FEATURE

LIMITS OF DISTURBANCE

(MATERIAL NOTED)

LIMITS OF WORK

OVERHEAD WIRES

PAVEMENT MINI SKIP LINE

PAVEMENT SKIP LINE

PROPERTY LINE

ROOT PRUNING

SANITARY SEWER

X" SANITARY SEWER

STORM (SIZE NOTED)

STREET LIGHT CONDUIT

TELEPHONE (UNDERGROUND)

TREE PROTECTION FENCE

SILT FENCE

STREAM

TREE LINE

WALL

WATER

X" WATER

RIGHT-OF-WAY LINE

MAJOR; MINOR

CRITICAL ROOT ZONE

ELECTRIC (UNDERGROUND)

FENCE (MATERIAL NOTED)

CENTERLINE / BASELINE

COMMUNICATIONS CABLE

EXISTING

_____ COM _____

—— 250 —— 250 ——

__x___x___x___x___x___

. 0 0 0 0 0 0

____ LOW _____

———— SF ———— SF ————

—— STM —— STM ——

—— SL —— SL ——

— TP — TP —

(SIZE INCLUDED IF AVAILABLE) _____ X" S _____ X" S _____

(SIZE INCLUDED IF AVAILABLE) _____ X" W _____ X" W _____

(SIZE INCLUDED IF AVAILABLE) _____ X" G _____ X" G _____

E

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PS

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PROP FIRE HYDRANT

PROP GAS VALVE

PROP LIGHT POLE

PROP PAY STATION

(TO SCALE)

PROP SANITARY MANHOLE

PROP STORM CATCH BASIN

PROP STORM MANHOLE

PROP TRAFFIC SIGN

PROP TRASH CAN

PROPOSED TREE REMOVAL

PROP UTILITY POLE

PROP WATER MANHOLE

PROP WATER METER

PROP WATER VALVE

CURVE NUMBER.

TEST HOLE

NORTH ARROW

(SEE CURVE TABLE)

PROP YARD INLET (TO SCALE)

CONSTRUCTION NOTES (LEADER TO AREA AFFECTED)

LINE NUMBER (SEE LINE TABLE)

 \bigcirc

PS

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DEMOLITION AREA

EX ELECTRIC BOX

EX FIRE HYDRANT

EX GAS VALVE

EX GROUND LIGHT

EX GUY WIRES

EX LIGHT POLE

EX MAILBOX

EX MONUMENT

EX PARKING METER

EX PAY STATION

EX STORM BASIN

EX STORM MANHOLE

EX TELEPHONE PEDESTAL

EX TRAFFIC CONTROL BOX

EX TREES, WOODED AREA

TYPE INDICATED ELECTRIC,

EX UTILITY MANHOLE

EX TRAFFIC SIGN

EX TRASH CAN

EX TRAVERSE

TELE, ETC

EX UTILITY POLE

EX WATER MANHOLE

EX WATER METER

EX WATER VALVE

EX YARD INLET

EX BENCHMARK

EX SANITARY MANHOLE

——— UGE ————

_x__x__x__x__x__

_____ X" G _____ X" G _____

_____ RP _____ RP ____

— SL — SL —

— TP — TP —

EX IRON PIPE OR PIN

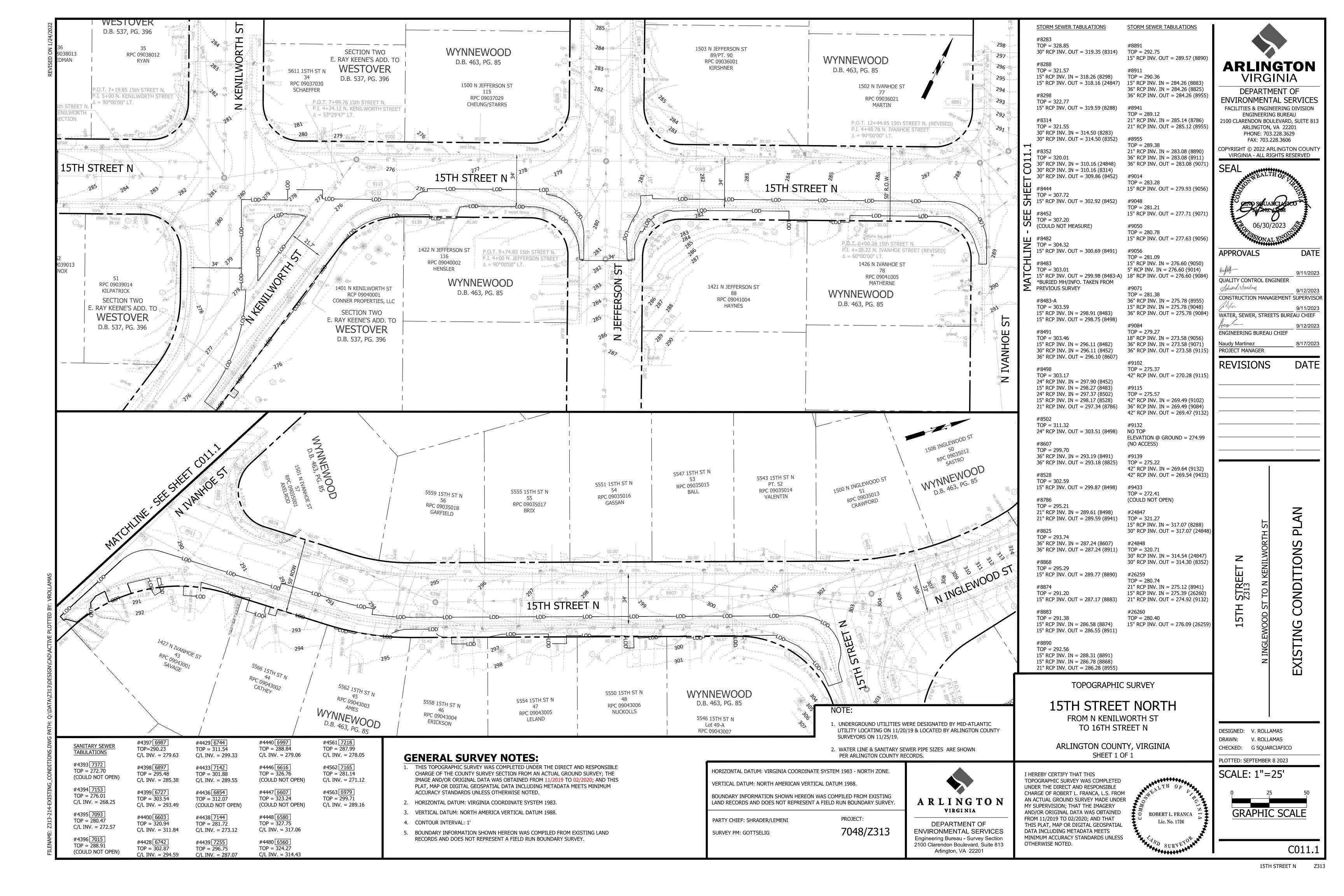
LABEL LEGEND

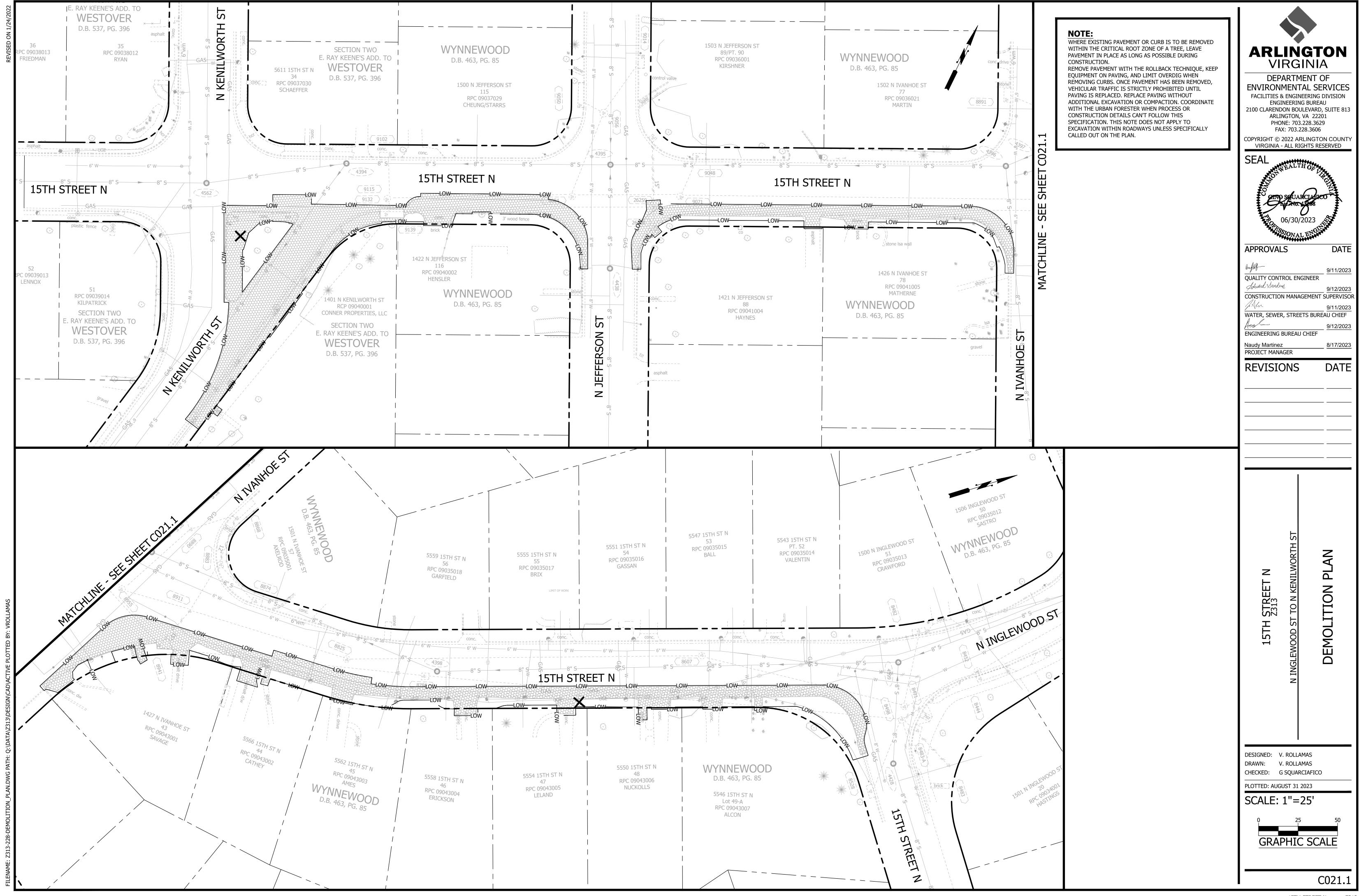
PROPOSED XXXX PROPOSED SANITARY SEWER STRUCTURE NUMBER STRUCTURE NUMBER $\langle \overline{x} \overline{x} \overline{x} \overline{x} \rangle$ $\langle XXXX \rangle$ EXISTING STORM SEWER PROPOSED STORM SEWER STRUCTURE NUMBER STRUCTURE NUMBER HATCH LEGEND PROP MILL & OVERLAY PROP FULL DEPTH ASPHALT PROP CONCRETE REPLACE & MATCH EXISTING DRIVEWAY OR LEADWALK. SEE CONSTRUCTION NOTES

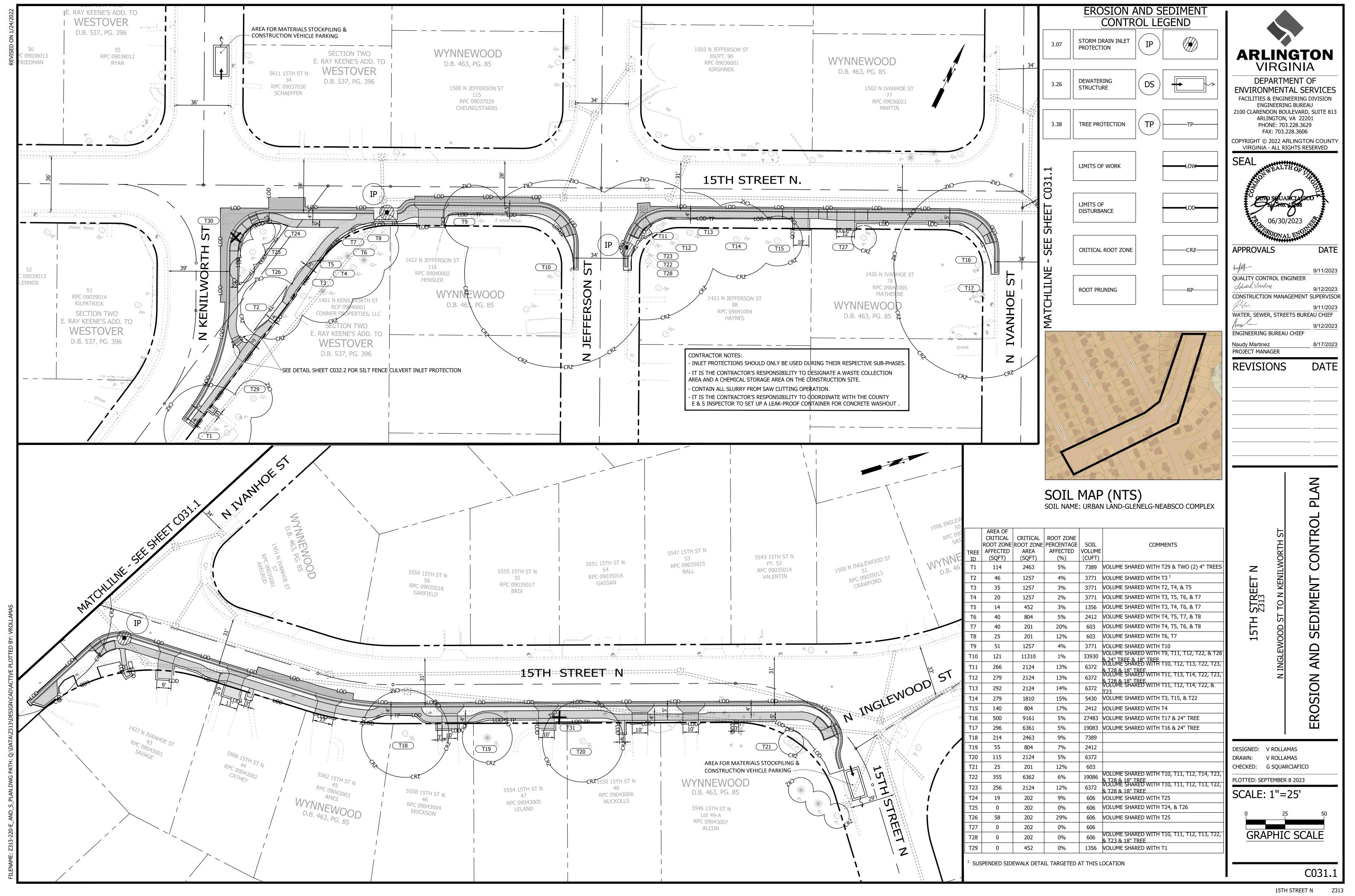
VIRGINIA DEPARTMENT OF **ENVIRONMENTAL SERVICES** FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2100 CLARENDON BOULEVARD, SUITE 813 ARLINGTON, VA 22201 PHONE: 703.228.3629 FAX: 703.228.3606 COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED **APPROVALS QUALITY CONTROL ENGINEER** ENGINEERING BUREAU CHIEF Naudy Martinez PROJECT MANAGER **REVISIONS** STREET Z313 **LEGEND** 5TH DESIGNED: V. ROLLAMAS DRAWN: V. ROLLAMAS CHECKED: G SQUARCIAFICO PLOTTED: AUGUST 30 2023 SCALE:

ARLINGTON

DATE 9/11/2023 CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF N/A C006.1 15TH STREET N Z313







EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

15TH STREET N IS A NEIGHBORHOOD CONSERVATION STREET IMPROVEMENT AND BEAUTIFICATION PROJECT - BETWEEN N INGLEWOOD ST AND N KENILWORHT ST - THE PROJECT PROPOSES CURB AND GUTTER, SIDEWALK, DRIVEWAY AND STORM DRAINAGE INFRASTRUCTURE, THE PROJECT WILL ALSO INCLUDE A PLANTED UTILITY STRIP AND ASSOCIATED WORKS. THE TOTAL DISTURBED AREA IS 19,704 SF (0.4523 ACRE) AND THE TOTAL PROJECT AREAS IS 72,663 (1.67 ACRE).

EXISTING SITE CONDITIONS:

15TH STREET N IS IN TARA-LEEWAY-HEIGHTS. THE EXISTING ROADWAY IS DEVOID OF SIDEWALK. PART OF EXISTING PAVEMENT WILL REQUIRE OF FULL DEPTH RESTORATION.

ADJACENT PROPERTIES:

RESIDENTIAL PROPERTIES ARE ALONG BOTH SIDES OF 15TH STREET N.

OFF-SITE AREAS:

THE EXTENT OF OFFSITE CONSTRUCTION IS LIMITED TO CONNECTING TO THE EXISTING ROADWAY THAT FLANKS THE PROJECT BOUNDARY. THE E&S PLAN WILL IDENTIFY CONTRACTOR LAYDOWN AREAS AND POTENTIAL PARKING ARES WHERE POTENTIALLY NEEDED

CRITICAL AREAS:

LOWEST POINT LOCATED AT STATION 8+94 15TH STREET N CENTERLINE.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SAFETY FENCE AND INLET PROTECTION. INLET PROTECTION IS REQUIRED OUTSIDE THE PROJECT LIMITS WHEN/WHERE WATER FROM DISTURBED AREA FLOWS. (REVISE AS NEEDED)

PERMANENT STABILIZATION:

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

STORMWATER RUNOFF CONSIDERATIONS:

NO ADDITIONAL IMPERVIOUS AREA WILL BE ADDED TO THIS PROJECT TOTAL LAND DISTURBANCE..... = 19,704 SF (0.4523 ACRES) PRE-IMPROVEMENT IMPERVIOUS AREA....= 12,863 SF (0.2953 ACRES) POST-IMPROVEMENT IMPERVIOUS AREA...= 11,050 SF (0.2537 ACRES) DECREASED IMPERVIOUS AREA..... = -1,813 SF (-0.0412 ACRES)

SOILS INFORMATION:

THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOILS MAP ON SHEET C031.1 FOR LOCATION)

SOIL#: SOIL NAME: HYDROLOGIC GROUP: ERODABILITY: URBAN LAND-GLENELG COMPLEX B

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

THERE ARE NO FLOODPLAIN OR RESOURCE PROTECTION AREAS LOCATED WITHIN THIS PROJECT SITE

EROSION & SEDIMENT CONTROL PROJECT PHASING

- a. PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, COUNTY STORMWATER INSPECTOR, COUNTY INFRASTRUCTURE
- b. Install the temporary construction entrance (if needed) in the location shown on the E&S phase I plan. Mud and debris shall BE WASHED FROM ALL TRUCKS EXISTING THE SITE.
- c. INSTALL PERIMETER TREE DEMARCATION FENCING IN THE FORM OF TREE PROTECTION FENCE (TP) AS SHOWN ON E&S PHASE I PLAN
- d. CONTACT ARLINGTON COUNTY PROJECT OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE REMAINDER OF THE SITE IN ORDER TO OBTAIN PHASE II GRADING PERMIT.
- e. CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.

- a. BEGIN PROP CATCH BASIN CONSTRUCTION. INSTALL CATCH BASIN P1 AND PROP 15"RCP BETWEEN P1 AND EX. MH26259. INSTALL CATCH BASIN P2 (DOGHOUSE) BETWEEN EX. CATCH BASIN 8941 AND EX. MANHOLE 8955.
- b. CONSTRUCTION WILL OCCUR IN SUB-PHASES (AA, A, B, C, D, E, F, G, H, AND I) BASED ON DIRECTION ON SHEETS C121.1 AND C121.2 RELATED TO MAINTENANCE OF TRAFFIC. INLET PROTECTIONS SHOULD ONLY BE IN PLACE WHEN WORKING ON EACH SUB-PHASE. AT THE END OF EACH SUB-PHASE, THE CONTRACTOR MUST PLACE PERMANENT SEED AND STABILIZE THE UTILITY STRIP OR OTHER PROPOSED GRASS AREAS, BEFORE MOVING TO THE NEXT SUB-PHASE.
- c. THE CONTROL MEASURES MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR.

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

EROSION AND SEDIMENT CONTROL MEASURES

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

1. STRUCTURAL PRACTICES

- a. TEMPORARY CONSTRUCTION ENTRANCE VESCH 3.02
- a.a. A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK SHALL BE INSTALLED AT THE EXISTING ACCESS POINT TO THE SITE. DURING MUDDY CONDITIONS, DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE RE-ENTERING THE LOCAL
- a.b. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC WASHING OF THE MATS AND/OR REPLACEMENT OF WOOD CHIPS AS NECESSARY.
- a.c. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED
- a.d. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED INTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
- b. SILT FENCE VESCH 3.05
- b.a. SILT FENCE WILL BE INSTALLED WITH THE E&S PLAN TO FILTER RUNOFF FROM DISTURBED AREAS. RUNOFF SHALL NOT BE DIRECTED PARALLEL TO THE INSTALLATION OF SILT FENCE.
- b.b. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- b.c. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING. b.d. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE
- FABRIC SHALL BE REPLACED IMMEDIATELY.
- b.e. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- b.f. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, THEN PREPARED AND SEEDED.
- c. TEMPORARY DIVERSION DIKE VESCH 3.09
- c.a. A SYSTEM OF TEMPORARY DIKES, TO DIRECT FLOW INTO PROPOSED & EXISTING STORM SEWER STRUCTURES WILL BE INSTALLED AS INDICATED IN EROSION & SEDIMENT CONTROL PLAN.
- c.b. THE STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.
- d. STORM DRAIN INLET PROTECTION VESCH 3.07
- d.a. ALL EXISTING & PROPOSED STORM SEWER INLETS IN AND AROUND THE PROJECT LIMITS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS.
- d.b. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.
- d.c. Structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized. e. DEWATERING STRUCTURE - VESCH 3.26
- e.a. SEDIMENT LADEN OR TURBID WATER SHALL BE FILTERED, SETTLED OR SIMILARLY TREATED PRIOR TO DISCHARGE.
- e.b. THE FILTERING DEVICES MUST BE INSPECTED FREQUENTLY AND REPAIRED OR REPLACED ONCE THE SEDIMENT BUILD-UP PREVENTS THE
- STRUCTURE FROM FUNCTIONING AS DESIGNED. e.c. THE ACCUMULATED SEDIMENT WHICH IS REMOVED FROM A DEWATERING DEVICE MUST BE SPREAD ON-SITE AND STABILIZED OR DISPOSED

OF AT AN APPROVED DISPOSAL SITE AS PER THE APPROVED PLAN.

f. TREE PROTECTION - VESCH 3.38

- f.a. ALL TREES ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE COUNTY INSPECTOR AND URBAN FORESTER. THE COUNTY'S URBAN FORESTER (703-228-1863) SHALL INSPECT ALL TREE PROTECTION 72 HOURS PRIOR TO THE START OF CONSTRUCTION. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, THE FOLLOWING MAINTENANCE GUIDELINES SHALL BE FOLLOWED:
- f.a.a. SOIL AERATION: IF THE SOIL HAS BECOME COMPACTED OVER THE ROOT ZONE OF ANY TREE, THE GROUND SHALL BE AERATED BY PUNCHING HOLES WITH AN IRON BAR. THE BAR SHALL BE DRIVEN 1-FOOT DEEP AND THEN MOVED BACK AND FORTH UNTIL THE SOIL IS LOOSENED. THIS PROCEDURE SHALL BE REPEATED EVERY 18 INCHES UNTIL ALL OF THE COMPACTED SOIL BENEATH THE CROWN OF THE TREE HAS BEEN LOOSENED.
- f.a.b. REPAIR OF DAMAGE ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM OF ANY TREE RETAINED ON THE SITE SHALL BE REPAIRED IMMEDIATELY.
- WHENEVER MAJOR ROOT OR BARK DAMAGE OCCURS, REMOVE SOME FOLIAGE TO REDUCE THE DEMAND FOR WATER AND
- DAMAGED ROOTS SHALL IMMEDIATELY BE CUT OFF CLEANLY INSIDE THE EXPOSED OR DAMAGED AREA. CUT SURFACES SHALL BE PAINTED WITH APPROVED TREE PAINT, AND MOIST PEAT MOSS, BURLAP, OR TOPSOIL SHALL BE SPREAD OVER THE EXPOSED AREA. TO TREAT BARK DAMAGE, CAREFULLY CUT AWAY ALL LOOSENED BARK BACK INTO THE UNDAMAGED AREA, TAPER THE CUT AT THE
- TOP AND BOTTOM, AND PROVIDE DRAINAGE AT THE BASE OF THE WOUND. ALL TREE LIMBS DAMAGED DURING CONSTRUCTION OR REMOVED FOR ANY OTHER REASON SHALL BE CUT OFF ABOVE THE COLLAR
- AT THE PRECEDING BRANCH JUNCTION. CARE FOR SERIOUS INJURIES SHALL BE PRESCRIBED BY A FORESTER OR A TREE SPECIALIST.
- f.b. FERTILIZATION: BROADLEAF TREES THAT HAVE BEEN STRESSED OR DAMAGED SHALL RECEIVE A HEAVY APPLICATION OF FERTILIZER TO AID THEIR RECOVERY.
- TREES SHALL BE FERTILIZED IN THE LATE FALL (AFTER OCTOBER 1) OR THE EARLY SPRING (FROM THE TIME FROST IS OUT OF THE GROUND UNTIL MAY 1). FALL APPLICATIONS ARE PREFERRED, AS THE NUTRIENTS WILL BE MADE AVAILABLE OVER A LONGER PERIOD
- FERTILIZER SHALL BE APPLIED TO THE SOIL OVER THE FEEDER ROOTS. IN NO CASE SHALL IT BE APPLIED CLOSER THAN 3 FEET TO THE TRUNK. THE ROOT SYSTEM OF CONIFERS EXTENDS SOME DISTANCE BEYOND THE DRIP LINE. INCREASE THE AREA TO BE FERTILIZED BY ONE FOURTH THE AREA OF THE CROWN.
- FERTILIZER SHALL BE APPLIED USING APPROVED FERTILIZATION METHODS AND EQUIPMENT.
- FORMULATIONS AND APPLICATION RATES SHALL CONFORM TO THE GUIDELINES GIVEN IN TABLE 3.38-A OF VESCH.

2. VEGETATIVE PRACTICES

- a. TOPSOILING (STOCKPILE) VESCH 3.30
- a.a. TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS MAY HAVE TO BE LOCATED OFF-SITE AND ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY E&S PLAN (IF THE STOCKPILE IS LOCATED OFF-SITE). THIS SUPPLEMENTAL PLAN WOULD HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY OFF-SITE ACTIVITY COMMENCES.
- b. TEMPORARY SEEDING VESCH 3.31
- b.a. ALL DENUDED AREAS, WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
- b.b. SEE SHEET III-288 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES. THE PLANTING REQUIREMENTS OF THE "SOUTH" SHALL BE FOLLOWED. LIMING SHALL BE BASED ON TABLE 3.31-A OF VESCH. FERTILIZERS SHALL BE APPLIED AS 600 LB/ACRE. THE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2-4" OF SOIL. SEED SHALL BE EVENLY APPLIED AND SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5" DEEP. SEEDING MADE IN FALL FOR WINTER COVER AND DURING HOT SUMMER MONTHS SHALL BE MULCHED.
- c. EROSION CONTROL BLANKET AND MULCHING VESCH 3.36 AND 3.35
- c.a. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND TO ALLOW SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS AND WILL BE APPLIED AS A SECOND STEP IN SEEDING OPERATION.
- d. DUST CONTROL VESCH 3.39
- d.a. DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS SUCH AS VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE BARRIERS, AND CALCIUM CHLORIDE. THE IMPLEMENTATION OF THE DUST CONTROL METHODS SHALL BE INSTALLED PER SECTION 3.39 OF VESCH
- e. PERMANENT SEEDING VESCH 3.32
- e.a. SINCE THE SUBJECT SITE IS LOCATED WITHIN THE COASTAL PLAIN AREA OF VIRGINIA, SHEET III-304 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.
- f.a. SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. PRIOR TO LAYING SOD, SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS AND LARGE OBJECTS. QUALITY OF SOD SHALL BE STATE CERTIFIED TO ENSURE GENETIC PURITY AND HIGH QUALITY. SOD SHALL NOT BE LAID ON FROZEN SOIL SURFACE, OR IN EXCESSIVELY WET OR DRY WEATHER. SOD SHALL BE DELIVERED AND INSTALLED WITHIN 36 HOURS, AND SHALL BE INSTALLED PER PAGE III-339 OF VESCH.
- THE EROSION AND SEDIMENT CONTROL INSPECTOR SHALL HAVE THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS AS NEEDED IN THE FIELD. IN ADDITION, NO SEDIMENT TRAPS OR BASINS MAY BE REMOVED WITHOUT PRIOR APPROVAL OF THE INSPECTOR.

EROSION AND SEDIMENT CONTROL MANAGEMENT MEASURES

LANDSCAPE / TREE PRESERVATION NOTES

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

LAND CONSERVATION NOTES:

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

EROSION & SEDIMENT CONTROL PROGRAM:

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

- 6. WHERE STREAM CROSSINGS ARE REQUIRED FOR EQUIPMENT, TEMPORARY CULVERTS SHALL BE PROVIDED.
- 7. FOR FURTHER REQUIREMENTS AND DETAILS OF TREE PRESERVATION, PLANTING, EROSION AND SEDIMENT CONTROL, SEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS AND/OR THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

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

PRE-STORM EROSION & SEDIMENTATION CHECKLIST:

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

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

1. PERIMETER CONTROLS

- a. SILT FENCE SHALL BE CHECKED FOR UNDERMINING, HOLES, OR DETERIORATION OF THE FABRIC. FENCING SHALL BE REPLACED IMMEDIATELY IF THE FABRIC IS DAMAGED OR WON. SILT FENCE MUST BE TRENCHED INTO THE GROUND PER STATE SPECIFICATIONS (VESCH STD & SPEC 3.09).
- b. WOODEN STAKES OR STEEL POSTS SHALL BE PROPERLY SECURED UPRIGHT INTO THE GROUND. DAMAGED POSTS OR STAKES MUST BE REPLACED c. SEDIMENT THAT HAS ACCUMULATED AGAINST THE SILT FENCE SHALL BE REMOVED. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE
- LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING. d. HAY BALES OR A STONE BERM SHALL BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE

2. EXPOSED SLOPES AND SOIL

- a. EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH TARPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE PROPERLY SECURED/ANCHORED.
- b. CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE. BERMS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT/EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA.
- c. EXPOSED SLOPES AT THE FINAL STABILIZATION PHASE SHALL BE STABILIZED USING SLOPE STABILIZATION PRACTICES SUCH AS SOIL STABILIZATION BLANKETS OR MATTING AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH STD & SPEC 3.36). BLANKETS OR MATS MUST BE PROPERLY SECURED AND ANCHORED TO THE SLOPE USING STAPLES, PINS, OR STAKES.
- d. Seeded areas shall be checked and reseeded as necessary to cover exposed soil. Recently seeded areas shall be protected by STRAW OR SOIL STABILIZATION BLANKETS TO PREVENT SEEDING FROM BEING WASHED AWAY.

3. STOCKPILES

- a. STOCKPILED SOIL AND OTHER LOOSE MATERIALS THAT CAN BE WASHED AWAY SHALL BE COVERED WITH A TARP, PLASTIC SHEETING, OR OTHER STABILIZATION MATTING. THE COVER MUST BE PROPERLY SECURED/ANCHORED DOWN TO PREVENT IT FROM BEING BLOWN OFF AND EXPOSING MATERIALS TO RAIN. CONTROLS SUCH AS HAY BALES OR BOOMS SHALL BE PLACED ALONG THE PERIMETER OF THE STOCKPILE (DOWNHILL SIDE).
- a. INLET PROTECTION CONTROLS SHALL BE INSPECTED TO ENSURE THEY ARE FUNCTIONING PROPERLY AND FLOODING WILL NOT OCCUR. CLOGGED OR DAMAGED CONTROLS MUST BE REPLACED IMMEDIATELY. ENSURE CONTROLS ALLOW FOR OVERFLOW/BYPASS OF STORMWATER
- RUNOFF DURING SIGNIFICANT STORM EVENTS. IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

ARLINGTON

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

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APPROVALS

9/11/2023 QUALITY CONTROL ENGINEER

DATE

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

9/12/2023 ENGINEERING BUREAU CHIEF

REVISIONS

PROJECT MANAGER

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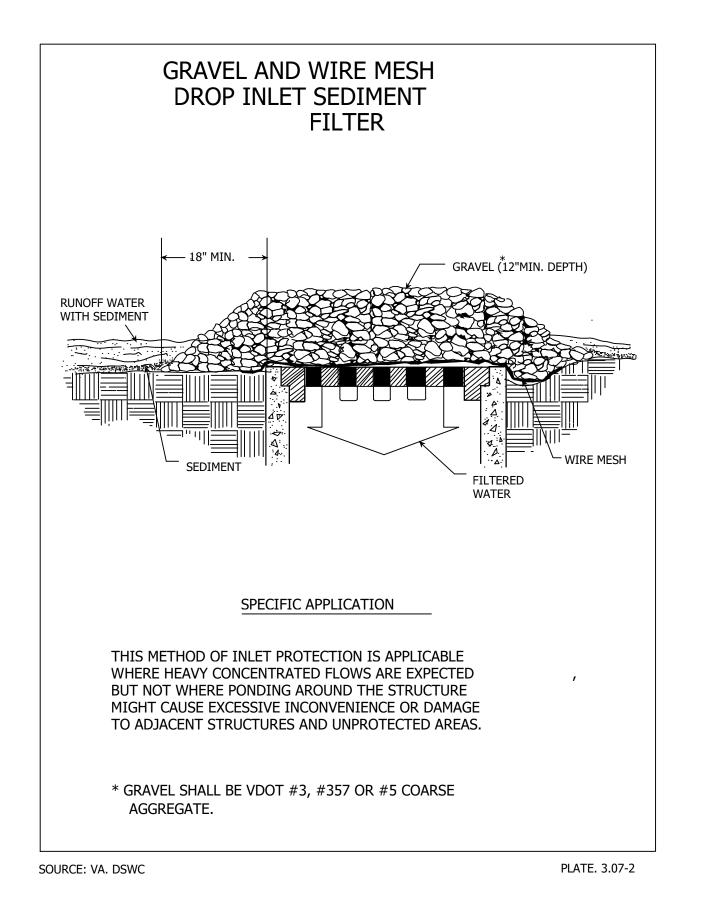
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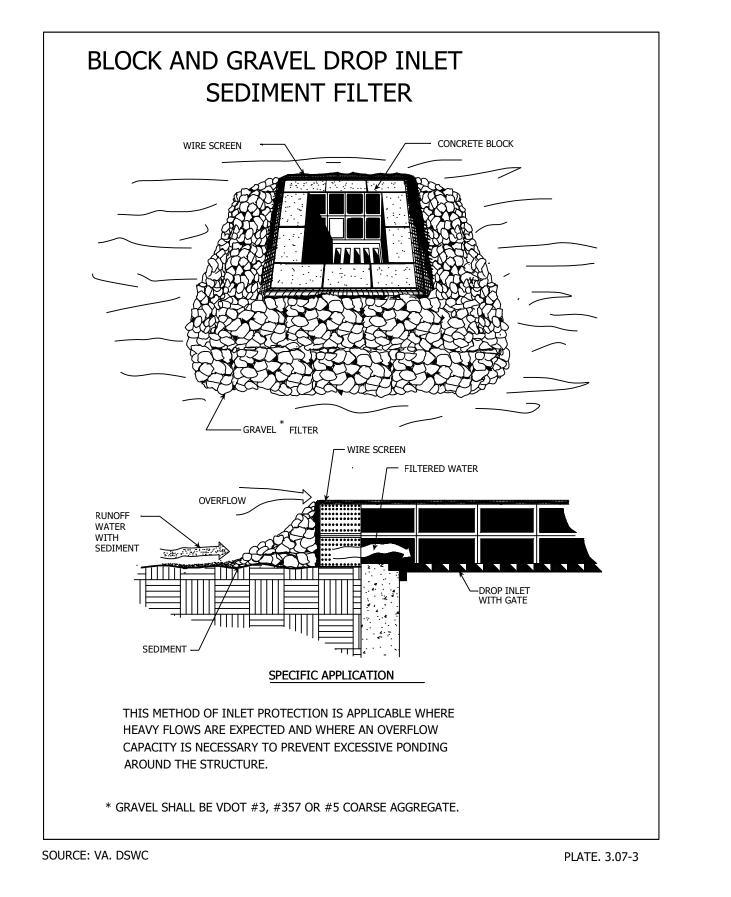
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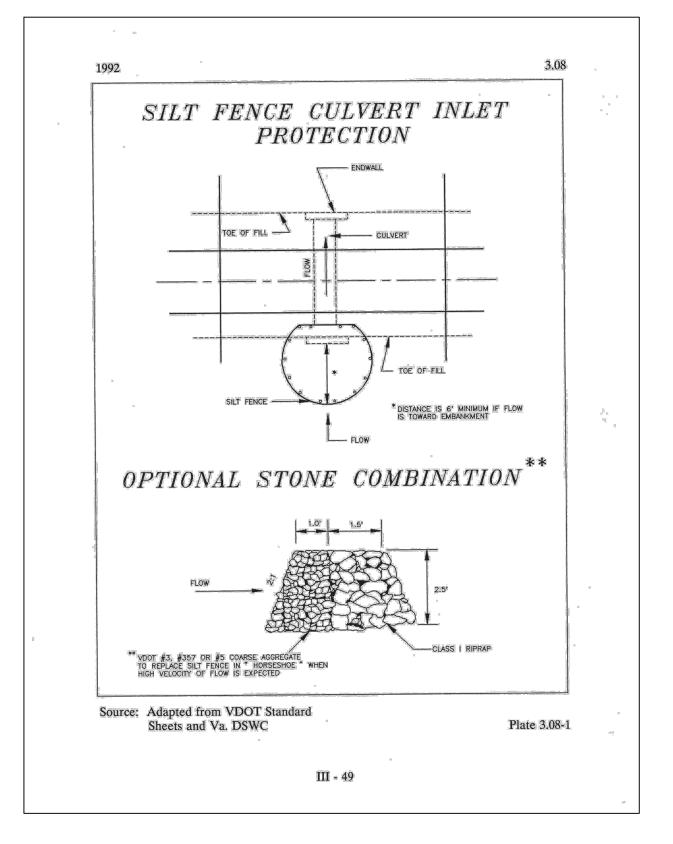
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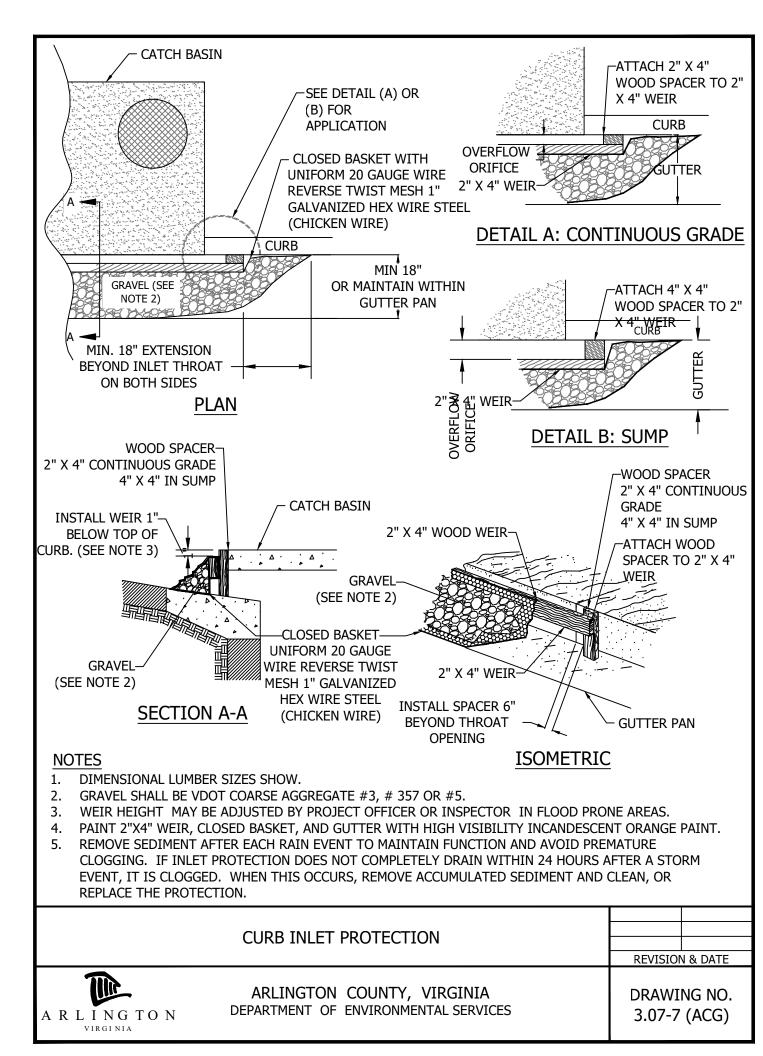




10'-0" MAX 24" TO 34" TRENCH 4" -TO ANCHOR **BOTTOM OF** CLOTH PLACEMENT IN FABRIC 14 TRENCH (SEE GAGE, 6" SECTION) MAX MESH SPACING **ISOMETRIC** FILTER FABRIC — **SECTION** MODIFIED-VESCH 3.05

SILT FENCE

NOT TO SCALE



POLLUTION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4)

- 1. ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:
- a. WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIREFIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
- 2. APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM
- 3. PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

UTILITY INSTALLATION:

- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
- 1. NO MORE THAN 100 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- 2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. 3. 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.
- 4. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- 5. STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- 6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 9. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
- 10. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

MAINTENANCE PROGRAM:

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

ARLINGTON VIRGINIA

DEPARTMENT OF **ENVIRONMENTAL SERVICES** FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2100 CLARENDON BOULEVARD, SUITE 813

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ARLINGTON, VA 22201



APPROVALS

9/11/2023 QUALITY CONTROL ENGINEER

DATE

WATER, SEWER, STREETS BUREAU CHIEF 9/12/2023

CONSTRUCTION MANAGEMENT SUPERVISOR

ENGINEERING BUREAU CHIEF 8/17/2023 Naudy Martinez PROJECT MANAGER

REVISIONS

DATE

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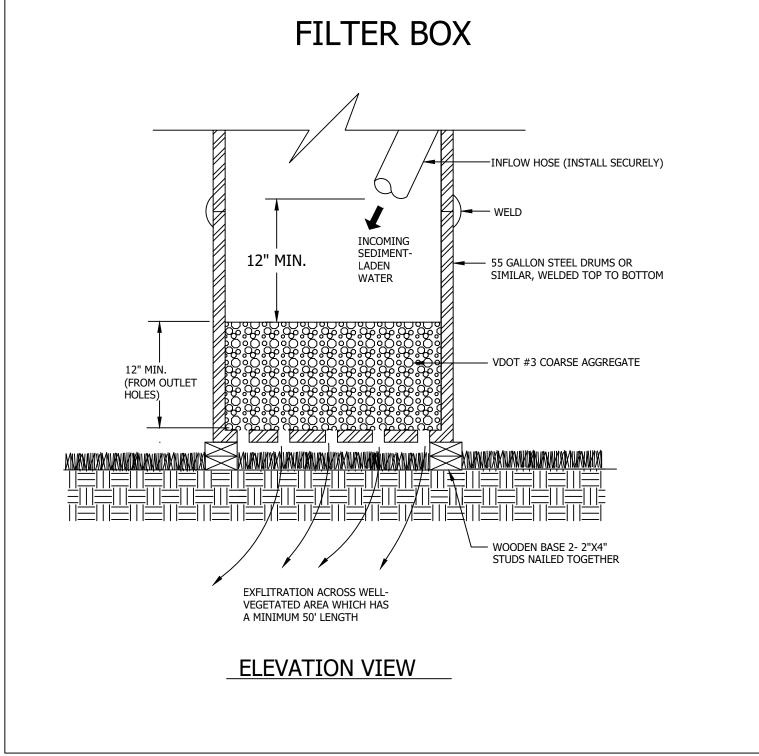
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SOURCE: VA. DSWC

PLATE: 3.33-1



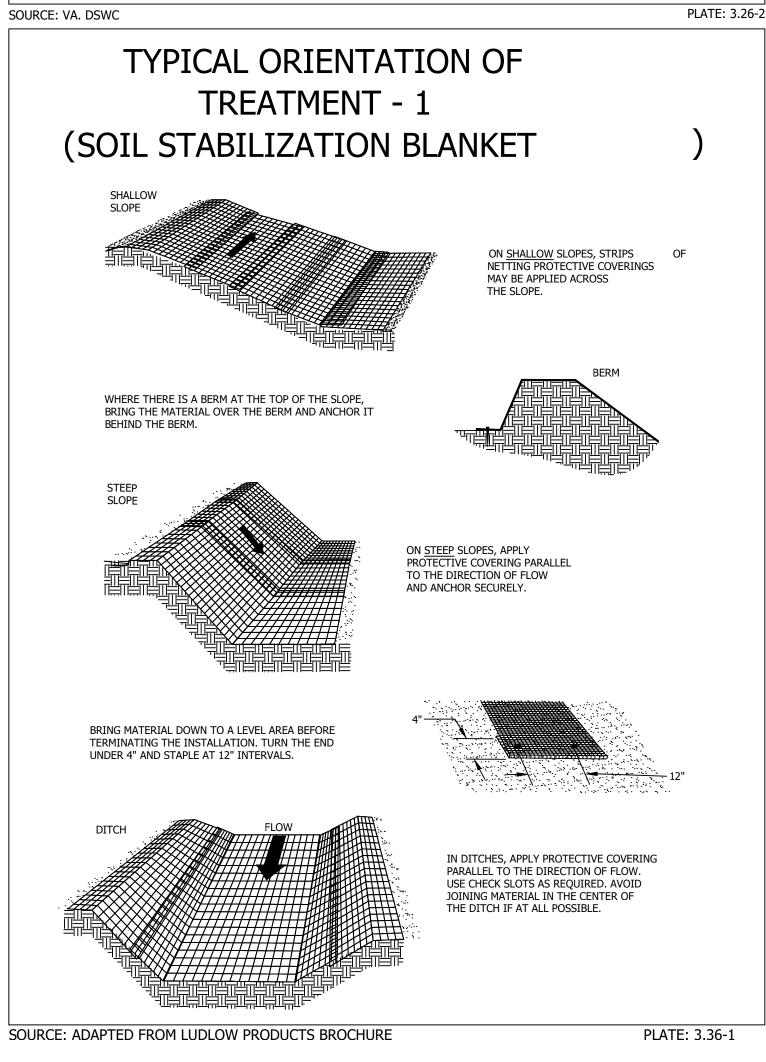


TABLE 3.31-B (Revised June 2003) **TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS** <u>SEED</u> APPLICATION DATES **SPECIES APPLICATION RATES** 50/50 Mix of Annual Ryegrass (lolium multi-50 -100 (lbs/acre) Sept. 1 - Feb. 15 florum) & Cereal (Winter) Rye (Secale cereale) Feb. 16 - Apr. 30 Annual Ryegrass (Iolium multi-florum) 60 - 100 (lbs/acre) May 1 - Aug. 31 German Millet 50 (lbs/acre) FERTILIZER & LIME • Apply 10-10-10 **fertilizer** at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.

3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin

4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

	SEED ¹	
LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ¹ Perennial Ryegrass Kentucky Bluegrass ¹	95-100% 0-5% 0-5% TOTAL: 175-200 lbs
High-Maintenance Lawn	Tall Fescue ¹	TOTAL: 200-250 lbs
General Slope (3:1 or less)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ²	128 lbs 2 lbs <u>20 lbs</u> TOTAL: 150 lbs
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ² Crownvetch ³	108 lbs 2 lbs 20 lbs <u>20 lbs</u> TOTAL: 150 lbs
variety list is available at the lo	May 1 st - August 15 th August 16 th - October November - February 15 th za for Crownvetch east of Farmville, VA (May thr	: Annual Rye Foxtail Millet Annual Rye Winter Rye Ough September use hulled seed, lbs./acre. If Weeping Lovegrass is
all other periods, use unhulled	bw maintenance mixture during warmer seeding	periods, increase to 30 -40
all other periods, use unhulled		periods, increase to 30 -40

GENERAL NOTES:

- i. Contractor to contact the Arlington Forester to schedule a pre-construction inspection of tree protection measures before any work near the critical root zones of trees. To schedule the pre-construction meeting call 703-228-1863.
- ii. Contractor to protect trees per the plan according to the Arlington County DPR Design Standard Detail 02231.1
- iii. Contractor to root prune trees per the plan according to the Arlington County DPR Design Standard Detail 02231.5, where called out on the plan.
- iv. Contractor to call the urban forester at 703-228-1863, 72 hours before planting, to schedule inspection of the trees to be planted. Warranty for 1 year after planting shall be the contractor's responsibility. The urban forester and DPR is responsible for inspection.
- v. Contractor to prepare tree planting strips for the replacement trees according to Arlington County DPR Design Standard Detail 02930.4a and 02930.4b.
- vi. Contractor to prepare street tree planting pits according to the Arlington County DPR Design Standard Detail 02930.3a, 02930.3b, and 02930.11c
- vii. Contractor to plant the trees according to Arlington County DPR Design Standard Detail 02930.1 (on flat land) or 02930.2 (on slopes)



SEDIMENT (AND DETAIL) EROSION ,

DESIGNED: V ROLLAMAS DRAWN: V ROLLAMAS CHECKED: G SQUARCIAFICO

STREET Z313

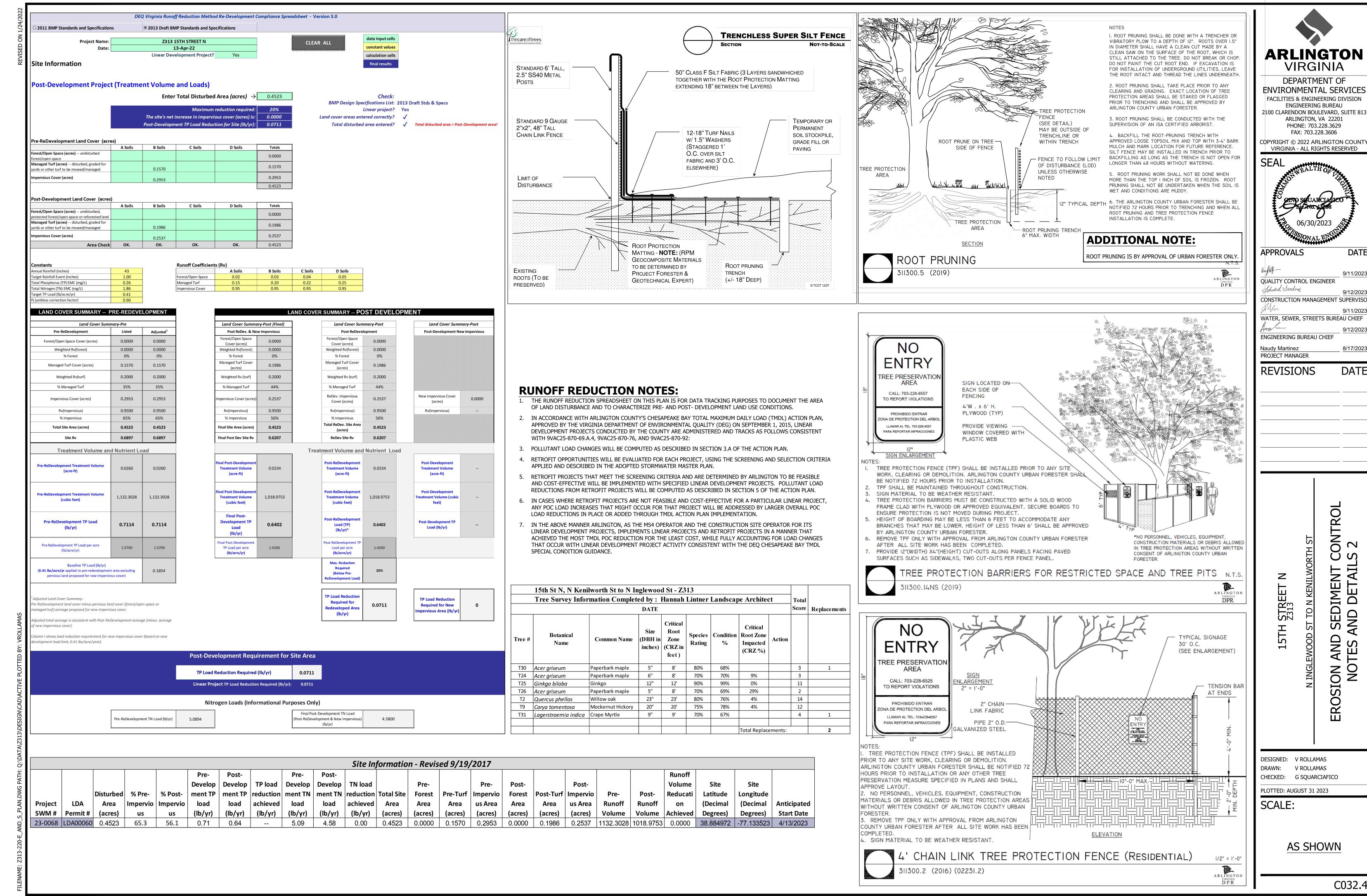
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STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Arlington	County Template	
Arimaton	County rembiate	

PROJECT / SITE	INFORMATION			
Project Name	15 TH STREET N			
LDA Permit#	LDAP23-00060	CGP#:		
Project Address	N Inglewood St to N Kenilworth St			
Watershed	Chesapeake Bay / Potomac River / Fo	our Mile Run, Uր	oper Mainstem 2	
Latitude	N (-77.133523)			
Longitude	W (38.8849	72)		

CONSTRUCTION ACTIVITY OPERATOR INFORMATION				
Operator Name	Kamal Taktak			
Company Name	Arlington County Government			
Address	2100 Clarendon Blvd, Suite 813			
Phone Number	703-228-7537			
Email Address	ktaktak@arlingtonva.us			
24-hour Emergency Contact Phone #				

CERTIFICATION STATEMENT

"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 violation	ons."
Operator Name	Gino Squarciafico
Signature	610
	342
Title	Design Team Supervisor – Department of Environmental Service
Date	
	04/13/2023

<u> Watershed / Impaired Waters / Total Maximum Daily Load (TMDL) Information</u> This project site is in the Chesapeake Bay and Potomac River watersheds: TMDLs have been established for sediment, nutrients (nitrogen, phosphorus), and PCBs. A TMDL has also been established for bacteria in the Four Mile Run Watershed. Measures will be taken to minimize the discharge of these pollutants of concern to the storm drain system and surface waters.

Site inspections will be conducted every four (4) business days

☑ 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.

Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events, during windy conditions, or when rain is in the immediate 48-hour forecast.

☐ For projects located in the Potomac River Watershed, measures will be taken to prevent /minimize the discharge of PCBs from the project site. Proper sediment controls and stabilization measures will be implemented. Debris and waste materials generated during demolition activities shall be properly disposed in accordance with local, state, and federal regulations.

☐ Arlington County's TMDL Action Plan for Bacteria covers the entire County. Measures will be taken to prevent /minimize the discharge of bacteria from the project site. Pollution prevention controls focused on managing dumpsters, portable lavatories, and other wastes will be implemented (additional information is provided in Section 6.0 Potential Sources of Pollution & Pollution Prevention Practices).

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Documents	Located Onsite & Available for Review?
LDA Permit	⊠ Yes
 Erosion & Sediment Control Plan (or agreement in lieu of) 	⊠ Yes
Pollution Prevention Plan	⊠ Yes
Stormwater Management Plan	
Construction General Permit	☐ Yes ☐ N/A
Notice of Coverage Letter	☐ Yes ☐ N/A
Registration Statement	☐ Yes ☐ N/A

Required documents are kept in a centralized location on the project site (i.e. mail box or another container marked SWPPP). Permits are displayed on site.

2.0 Authorized Non-Stormwater Discharges

Types of Authorized Non-Stormwater Discharges	Likely Prese	ent at Project Site
 Uncontaminated / filtered excavation dewatering 	oxtimes Yes	\square NA
Uncontaminated / filtered wash water	☐ Yes	\square NA
Potable water sources that do not create an in-stream impact	☐ Yes	\square NA
Pumped uncontaminated ground water	☐ Yes	\square NA
Landscape irrigation	⊠ Yes	\square NA
• Other	☐ Yes	\square NA

V-01/2022

V-01/2022

5.0 Pollution Prevention Practices (PPP)

Pollution prevention practices (PPP) including daily good housekeeping efforts will be employed at the project site to prevent pollution discharges. Equipment, tools and materials needed for cleanup (brooms, shovels, vacuums, trash bags) will be readily available on site.

The following selected ("checked") activities will be conducted during this project and the corresponding pollution prevention controls and practices will be implemented. Specific controls and additional information are included as applicable.

(1) 🗵 Clearing, Grading, Excavating - Sediment Control / Stabilization (PPP1)

- Erosion and sediment controls selected and/or described in Section 4.0 will be installed and maintained to protect resources and prevent sediment from leaving the site/LOD and entering the storm drain system or surface waters.
- Sediment tracking onto paved areas outside the LOD / construction entrances will be
- Plastic sheeting, tarps, 2" deep straw cover, mulch and/or erosion matting will be used for temporary stabilization of exposed soil / slopes.
- The Pre-Storm Site Preparation Checklist will be followed and implemented.

(2) Saw Cutting and Paving Operations (PPP2)

- Slurry or other debris shall not enter a storm drain or surface water.
- Spill containment techniques such as the use of sand bags or booms around the immediate work area shall be used to contain and capture any non-stormwater
- Slurry from saw cutting operations must be contained, collected (vacuumed), and disposed of properly.

escription of temporary controls that will be used:	

(3) 🛛 Concrete Operations - Washout and Waste Management (PPP3)

Concrete wash out will be conducting in a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.

- Concrete wash water shall not be discharged to a storm drain or surface water. Washout facilities will be sized appropriately for the needs of the project.
- Washout facilities will not be located near storm drains.
- Mixers and truck chutes will be washed out in designated contained washout areas No tracking from washout areas will occur.
- Plastic sheeting, boards, or tarps will be placed under concrete truck chutes during pouring Concrete washout areas will not be used for dewatering

The selected concrete wash out facility will be used:

- ☐ Washout Structure Wood Planks
- ☐ Washout Structure Straw Bales
- ☐ Prefabricated Containment System Type: ___

☐ Other:

V-01/2022

(4) Mashing Activities (PPP4)

Wash water discharges to the storm drain system or surface waters are prohibited. The following pollution prevention practices and controls will be implemented where applicable:

- Wash water or liquid wastes shall not enter a storm drain or surface waters.
- A suitable containment system for cleaning equipment such as a drum, prefabricated system, lined container, or portable wash pad will be provided.
- The wash / containment area will be sized appropriately for the needs of the project.
- The wash / containment area(s) will be situated away from storm drains. • Containers will be monitored for leaks or damage. Containers will be replaced as needed.

Washout containment / controls for this project will include:

(5) Dewatering Operations (PPP5)

Construction site dewatering will not be discharged without the use of controls. Sediment laden or turbid water associated with dewatering shall be filtered, settled or similarly treated prior to discharge. The dewatering detail on approved ESC plan will be used. Dewatering operations will be monitored to ensure the controls being used are effective (clear water being discharged) and no clogging or overflow is occurring. Controls will be cleaned out or replaced when the control is no longer effective at removing sediment. Pumping will be conducted so that the rate of discharge does not overwhelm the dewatering system and allows for adequate settling and/or filtration.

Dewatering controls that will be used:

- ☐ Filter bag on stone bed with haybales
- ☐ Portable sediment tank
- ☐ Manufactured / customized system

(6) Materials / Chemical Use and Storage (PPP6)

Areas will be designated for material delivery and storage. These areas will be near construction entrances and not situated near storm drains. Lay downs areas will be shown on plans. Storage and containment areas will be adequately enclosed or covered. Additional pollution prevention practices and controls include:

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting when not being actively accessed. Covers must be properly secured / anchored down to prevent the covering from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of stock pile (downhill side).
- Stockpiled materials located on the edge of roadways will not obstruct flow along the curb line (gutter). Adequate space between the curb and stockpile will be left to allow stormwater to flow along the curb line. Pipes or boards laid over curbs may be used to create the flow
- Secondary containment will be used for storage of fuels, oil, grease, paint, solvents, sealers, cleaners, and other chemicals. Materials will be kept secured and covered when not in use.

(7) Equipment and Vehicle Fueling / Maintenance (PPP7)

Designated areas for refueling vehicles or equipment or perform maintenance will be located away from storm drains and surface waters. Additional pollution prevention practices and controls

V-01/2022

• Vehicles and equipment will be inspected daily for leaks. Any leaks or spills will be addressed

- Containment measures will be used when conducting fueling (e.g. place fuel mats, spill pads, boards, or plastic sheeting on ground) to contain drips, leaks, spills.
- Fuel tank (s) will have containment.
- Fuel tanks and containers will be inspected daily for signs of damage.
- Employees will be instructed not to "top off" or overfill vehicles or equipment to prevent spills. Secondary containment and secure storage will be provided for fuel, oil, solvent and/or
- Drip pans, sheeting, and/or absorbent pads will be placed under heavy equipment when not in use (i.e. overnight) to capture any potential leaks.

(8) 🛛 Waste Management (PPP8)

Trash, waste, and construction debris will be managed and disposed of properly. Designated areas for trash and debris collection will be situated as far away from storm drains as possible. Additional pollution prevention practices and controls include:

- A sufficient number of waste containers will be kept on a site to handle the quantity of waste
- Waste collection / pick up will be conducted as necessary to prevent overfilling.
- Containers will have lids or covers that can be used to cover open containers at the end of the work day and prior to rain events. Roll off containers will be kept covered when not being
- accessed. Lids and doors on dumpsters and/or / trash can will be kept closed. Waste containers will be checked frequently for damage / leaks. Any cleaning will be conducting using DRY methods. Waste containers will not be power washed or hosed out
- unless the wash water is collected and disposed of into the sanitary sewer system. Damaged containers / receptacles (leaking, cracked, corroded, or otherwise deteriorating) will be replaced.

(9) Nortable Lavatories (PPP9)

Portable lavatory units will be properly situated and maintained to prevent pollution releases. Additional pollution prevention practices and controls include:

- Portable lavatories will be situated away from storm drains and surface waters.
- Portable lavatories will be kept level and have secondary containment (i.e. trays) if situated on paved surfaces.
- Units will be inspected for leaks or damage will be conducted frequently.
- Routine maintenance / cleaning will occur, and units will be replaced if damaged or leaking.

(10) Nutrient Management / Fertilizer Application (PPP10)

Fertilizer will be applied in accordance with manufacturer's recommendations. Fertilizer will not be applied during rainfall events or windy conditions, or when rain is forecasted. Fertilizer will be properly secured and stored under cover when not being used. Residual fertilizer on paved surfaces will be swept up.

7.0 Spill Prevention, Response, and Reporting

Spills and leaks will be cleaned up upon discovery using dry cleaning methods (placement of absorbent materials, sweeping, shoveling, bagging, proper disposal). Spills will not be hosed down unless the wash water is contained, collected and disposed of properly.

Spill kits will be kept on site. The spill kit shall be labeled, stocked, and readily accessible. **Employees**

will be informed of the location of the spill kit(s) and how to respond to and report spills.

Spill kits should contain absorbent materials, pads, socks, plastic bags, and personal protective equipment (gloves, eye protection). Shovels/brooms should be accessible.

Location(s) of spill kit(s) on site:

Spill Response and Reporting:

- Check for hazards (flammable material, noxious fumes, cause of spill) if flammable liquid, turn off engines and nearby electrical equipment. <u>If serious hazards are present leave the area and</u>
- Ensure the spill area is safe to enter and does not pose an immediate threat to health and safety
- Stop the spill source.
- Notify personnel in area of spill and potential dangers.
- Ask for assistance to block off area and help with cleanup efforts.
- Take measures to prevent a spill from spreading and/or entering storm drains (socks, booms,
- Clean up spill using dry methods and dispose of materials in accordance with Safety Data Sheet specification and local, state, and federal regulations.
- Never flush or "hose down" a spill down into a storm drain.
- If spilled material has entered a storm drain or surface water; call the Fire Department (911)

Emergency Contacts:

911 / 703-558-2222 Arlington County Fire & Police DES Water, Sewer, Streets 24-Hour Emergency 703-228-6555 Washington Gas Emergency Line 703-750-1400 VA Dept. of Emergency Management (24 hour) 804-674-2400

 Water or sewer breaks, or overflows will be reported to Arlington County Department of Environmental Services, Water, Sewer, Streets 24-Hour Emergency # 703-228-6555

• Leaking underground storage tanks will be reported to the Virginia Department of Environmental Quality Northern Regional Office, 703-583-3800 and the Arlington County Fire Prevention Office, 703-228-4644

V-01/2022

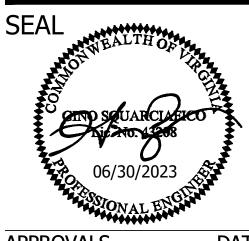
FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2100 CLARENDON BOULEVARD, SUITE 813 ARLINGTON, VA 22201 PHONE: 703.228.3629 FAX: 703.228.3606 COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

ARLINGTON

VIRGINIA

DEPARTMENT OF

ENVIRONMENTAL SERVICES



APPROVALS DATE 9/11/2023 **QUALITY CONTROL ENGINEER** Lahrard Danders CONSTRUCTION MANAGEMENT SUPERVISOR

ENGINEERING BUREAU CHIEF Naudy Martinez 8/17/2023 PROJECT MANAGER **REVISIONS**

WATER, SEWER, STREETS BUREAU CHIEF

9/12/2023

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ON Z OLLUTI(PLAN Щ STRI Z313 \mathbf{C} TER ORMW,

DESIGNED: V ROLLAMAS DRAWN: V ROLLAMAS CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

C035.1

RLD Form

03-03-2023

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

Re: Erosion and Sediment Control Permit Application for: 15TH STREET N

Permit #: _____

Dear Mrs. Li:

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

- Reviewing the erosion and sedimentation control plan for the project.
- Walking the site prior to construction to identify critical areas. Conducting a pre-construction briefing with contractors to review the SWPPP, the limits of clearing and the required E&S controls and tree protection measures to be installed.
- Schedule a pre-construction meeting.
- Inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspecting the site 48 hours after a runoff-
- Ensuring temporary stabilization is applied within seven (7) days to areas that will remain undisturbed for longer than 14 days.

I may be reached at 703-228-3674 for any questions about this project or my execution of the duties of Responsible Land Disturber.

Professional Registration (type and #): GINO SQUARCIAFICO - VA PE 0402043208

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D I	1	NT /	2 47	OA

Department of Environmental Services ARLINGTONDA Permit SWPPP Minimum Acceptance Criteria (MAC) Checklist

Instructions: Complete this required Front Counter Minimum Acceptance Criteria (MAC) Checklist to ensure the intake of your plan upon submission at 1st submission. If applicable, also complete all attached MAC Checklists for requirements pertaining to the individual review of plan elements.

Project Name: 15TH STREET N

h Legends

g Real Property Identification Map Number, RPC Numbers

8 Engineer's Seal/ Signature - Signed and dated on all sheets

Date: 04/13/2022 Address: 15TH STREET N - N INGLEWOOD ST TO N KENILWORTH ST

Ge	neral Items	yes	n/a	no	sheet
1	Completion of this Front Counter MAC Checklist and all applicable Plan Review MAC Checklists.	x			
2	Submit and sign the MAC Checklist with the civil engineering plan for first submittal only.	Х			
2	Include a Cover Sheet with the following information	Ιx			
э a	Name of project	X			
b	Include the address, if known at the time of submission.	X			
С	Vicinity Map indicating the North arrow; label all streets	Х			
d	Name, address, phone number and email of Contractor	Х			
e	Name, address, phone number and email of Owner	Х			
f	Name, address, phone number and email of Engineer	Х			
g	Table of Contents/ Sheet Index	Х			
5	Include an Existing Conditions Plan Sheet, Demolition Plan Sheet and Site Plan Sheet	Х			
6	Include the following within the Plan, on applicable Plan Sheets	Х			
а	Graphic Scale on ALL plan sheets				
b	North Arrow on ALL plan sheets	Х			
С	Current Field Survey Topography (certified)	X			
d	Site Areas (Post Dedication and Post Vacation)				
e	Total site area of property in sq ft and acres	X			
f	Existing and Proposed Easements on an exhibit	X		<u> </u>	

Ero	sion and Sediment Control Plan	yes	n/a	no	sheet
1	Include the Following on Erosion and Sediment Control Plan Sheets	Х			
а	E&S Control Plan and Site Plans	Х			
b	E&S Control Narrative	Х			
С	E&S Control practices detail drawing (dewatering device, etc)	Х			
d	E&S Control Plan Legend	Х			
e	Virginia Erosion and Sediment Control Handbook (VESCH) specification numbers	Х			

X

X

X

1 of 3

2	General E&S Control Notes and General Land Conservation Notes		
3	Landscape Conservation Plan with the following clearly indicated		
а	Determination of the critical root zone	Х	
b	Tree protection fencing	Х	
С	Signage		
d	Critical Root zone mitigation, such as root pruning, padding, or other root protection methods	Х	
е	Note requiring county arborist inspection before any land disturbance activity	Х	
f	Tree inventory of all trees larger than 3 inches DBH, either on site or with a critical root zone encroaching the limit of disturbance. This list will contain information on species, size, health, whether the tree is protected or not, and other issues, such as location in the RPA, disease concerns, or invasive species presence	x	
g	Tree canopy coverage calculation	Х	
h	RPA delineation, if applicable	Х	
i	For 4.1 site plans and public projects, a calculation of the tree replacement value of removed trees	х	

to	rmwater Management Plan	YES	NO	N/A	shee
1	Include the following on Stormwater Management Plan Sheets			Х	
а	Runoff Reduction Spreadsheet			Х	
)	Design details and reference of stormwater facilities listed in the Runoff Reduction Spreadsheet			Х	
С	Facility detail, maintenance schedule, material specifications and construction inspection checklist for each stormwater facility proposed			х	
d	Stormwater Management Facility and Site Data Spreadsheet			Χ	
9	Drainage area boundary and runoff flow arrows			Х	
f	Water Quantity Energy Balance Worksheet			Х	
g	Waterproofing Note, if applicable			Χ	
า	Meet requirement for sheetflow and statement of no adverse impact to adjacent properties			Х	
i	Indicate sump pump discharge location, tie into the public storm sewer system when possible.			Х	
j	Indicate Floodplain boundary and floodplain study OR certification on plan that no floodplain is present			х	
k	Indicate Resource Protection Area (RPA) boundary on plan OR include certified note on plan that no RPA is present. If RPA is present, include Completed Water Quality Impact Assessment (WQIA) form with required elements. Include Completed Exception Request Form on plan (if required), and proposed RPA mitigation			Х	
ı	Blank Stormwater Facility Maintenance and Monitoring Agreement			Х	
n	SWM# on the coversheet, once assigned after 1st review			Х	

1	Include the following on the Pollution Prevention Plan	X		
a	Standard notes from Stormwater Manual Section 2.4	Х		
	Authorized Non-Stormwater Discharge (Section 2.0), Potential Sources of Pollution & Pollution Prevention Practices (Section 5.0), and Spill Prevention & Response (Section 7.0) from SWPPP Template (Appendix B) of the Stormwater Manual	х		

Registration Statement for project with land disturbance equal to or greater than 1 acre

2 of 3



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APPROVALS DATE 9/11/2023 QUALITY CONTROL ENGINEER Schrand Sanders

CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF

9/12/2023 ENGINEERING BUREAU CHIEF 8/17/2023

Naudy Martinez PROJECT MANAGER

REVISIONS

PREVENTION 5TH

STORMWATER

DESIGNED: V ROLLAMAS DRAWN: V ROLLAMAS CHECKED: G SQUARCIAFICO

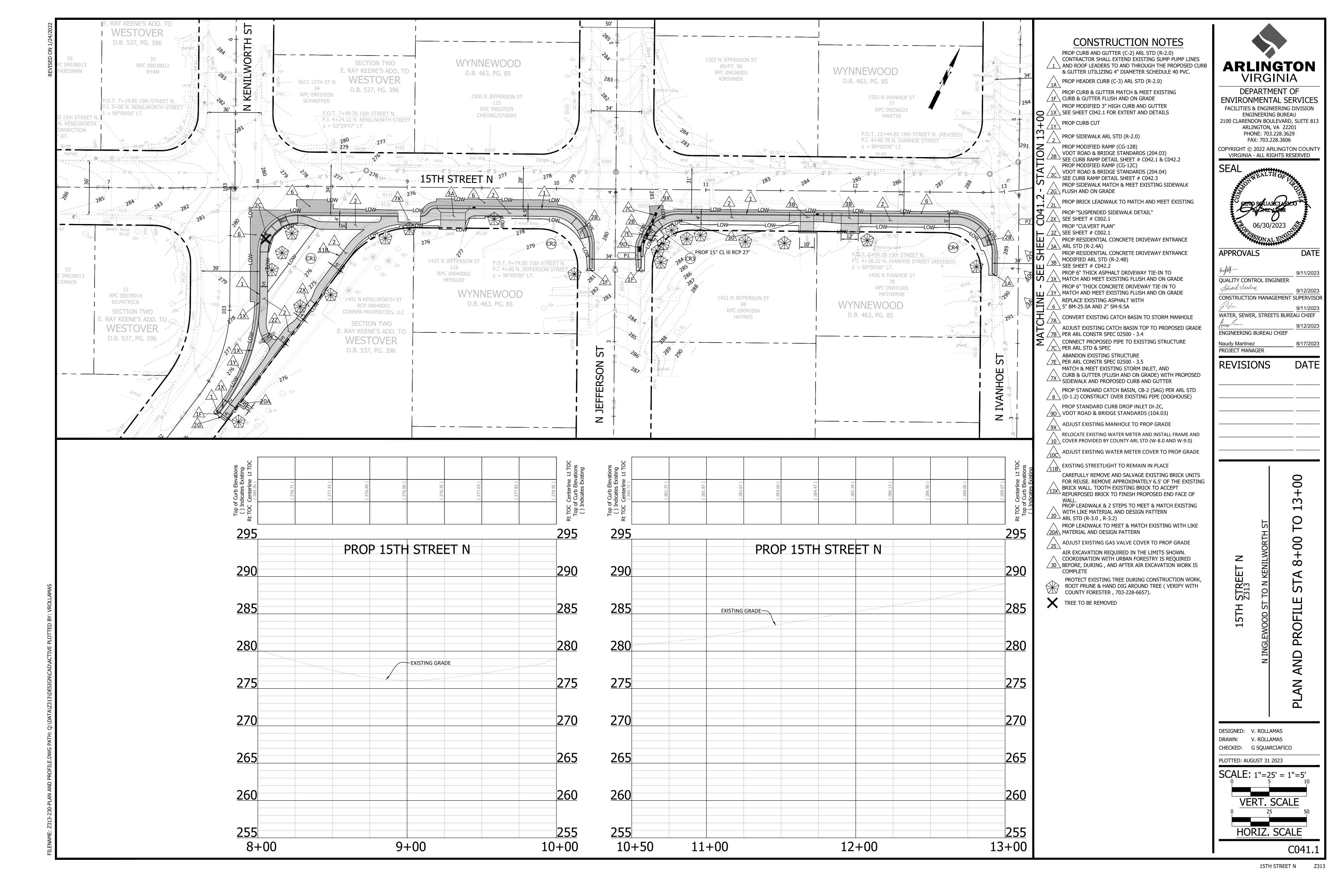
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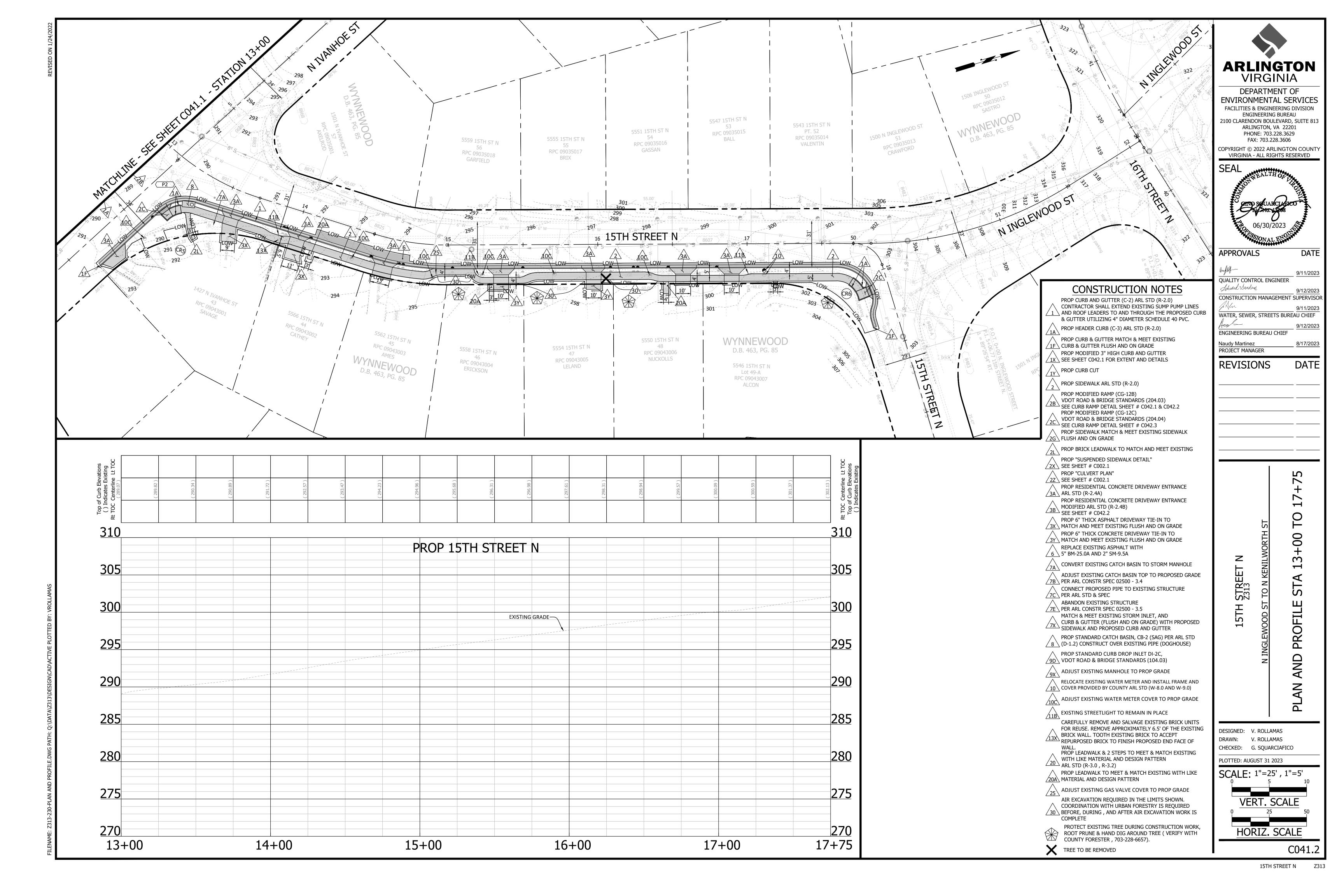
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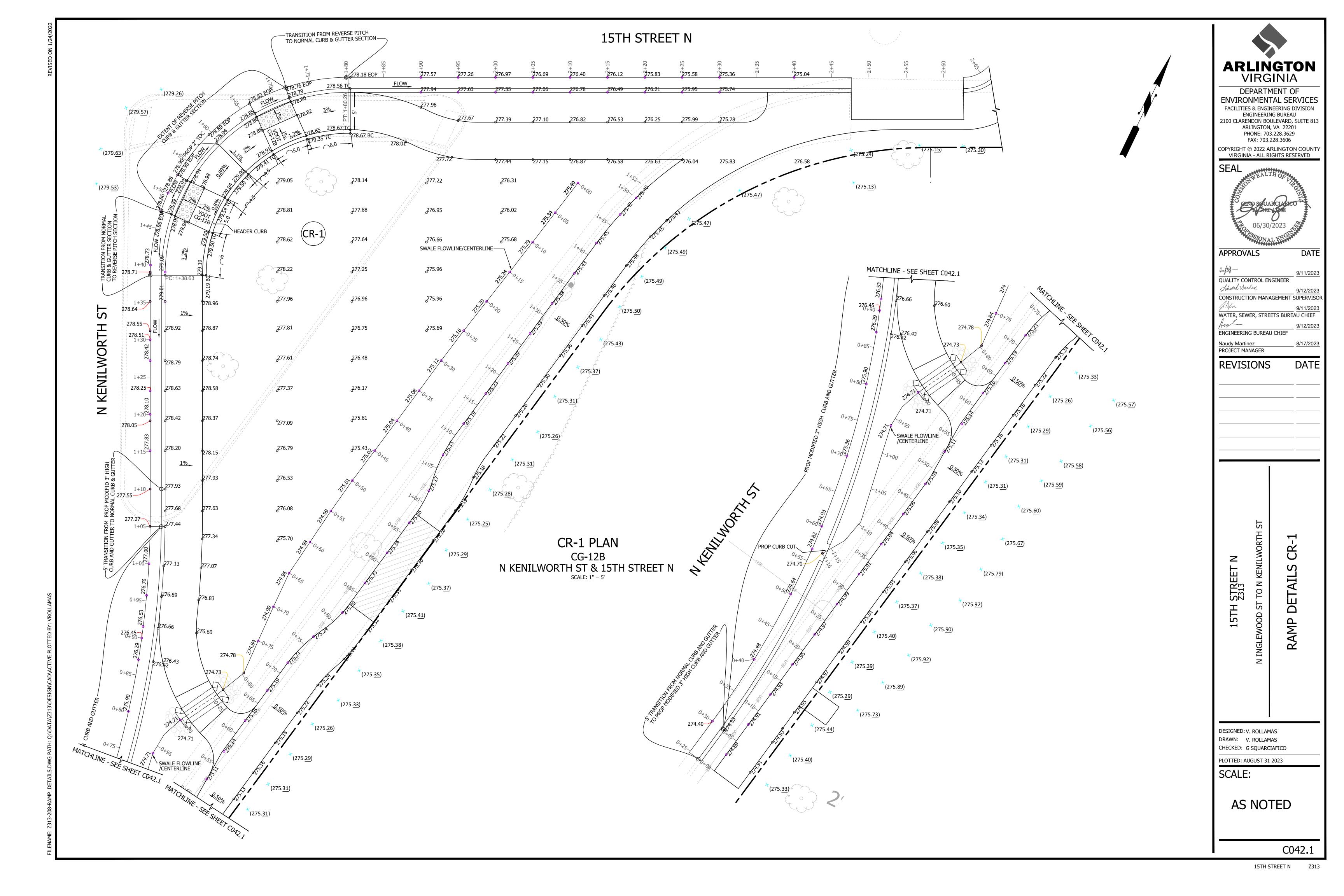
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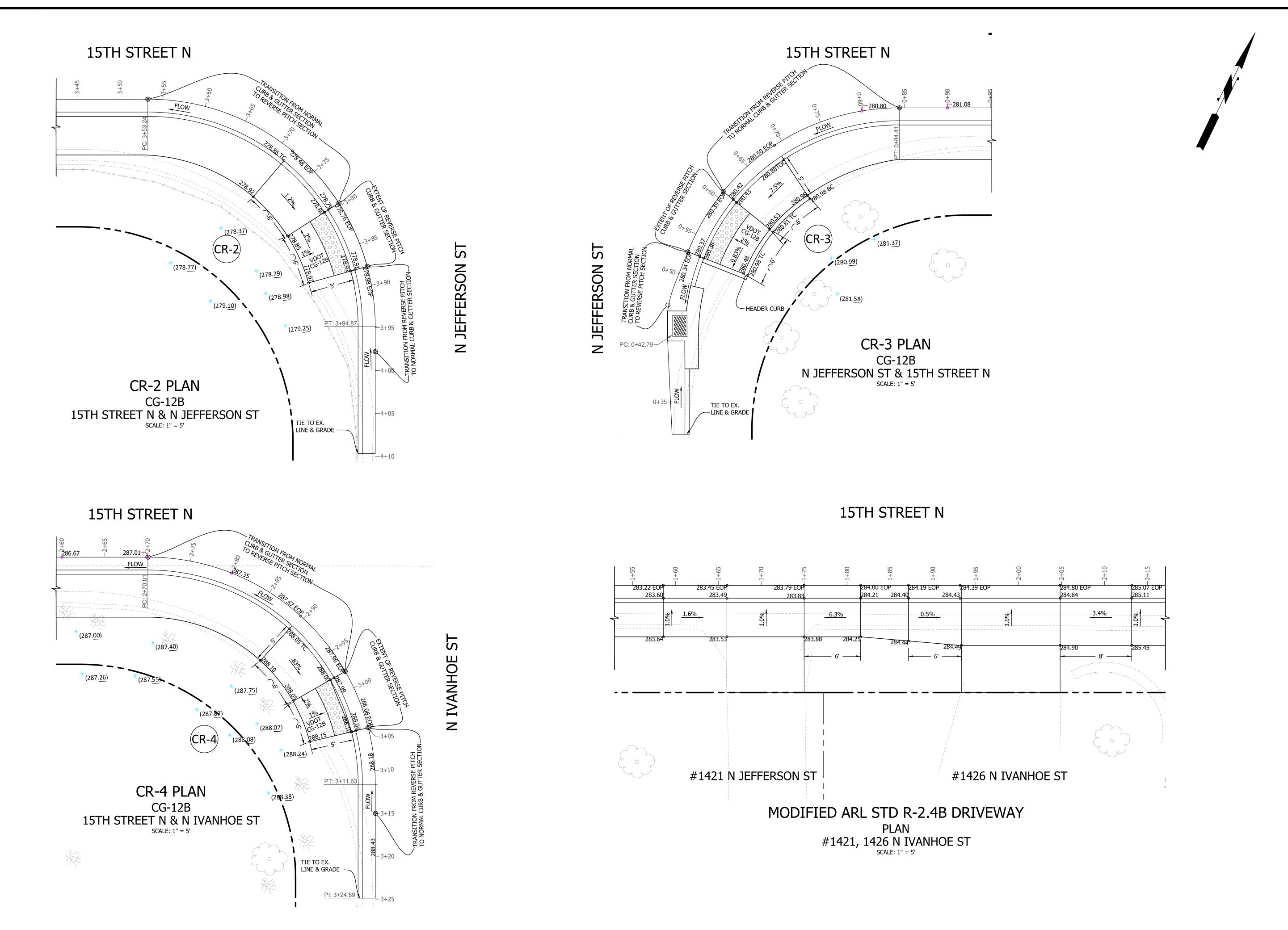
I certify that the above is true and accurate to the best of my knowledge.

3 of 3









ARLINGTON VIRGINIA

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

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SEAL

MIND SQUARCIAFICO

MIL AND 1208

06/30/2023

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APPROVALS

QUALITY CONTROL ENGINEER 9/11/2023

DATE

DATE

CONSTRUCTION MANAGEMENT SUPERVISOR

9/11/2023

WATER, SEWER, STREETS BUREAU CHIEF

9/12/2023

ENGINEERING BUREAU CHIEF

Naudy Martinez

PROJECT MANAGER

DEL/TOTONIO

REVISIONS

4

CR-2,

RAMP DETAILS

15TH STREET N
Z313
EWOOD ST TO N KENILWORTH S

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS

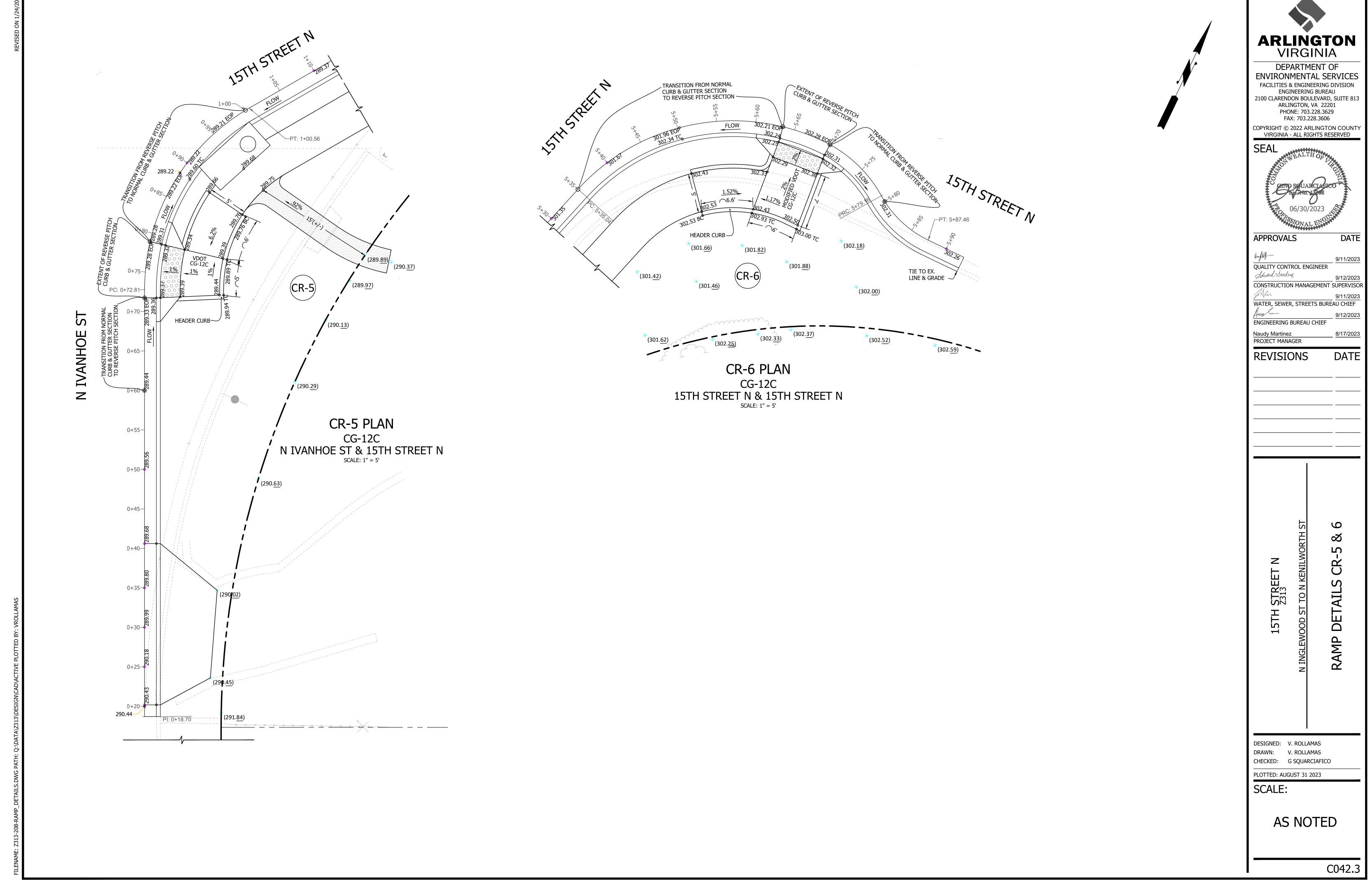
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CHECKED: G SQUARCIAFICO

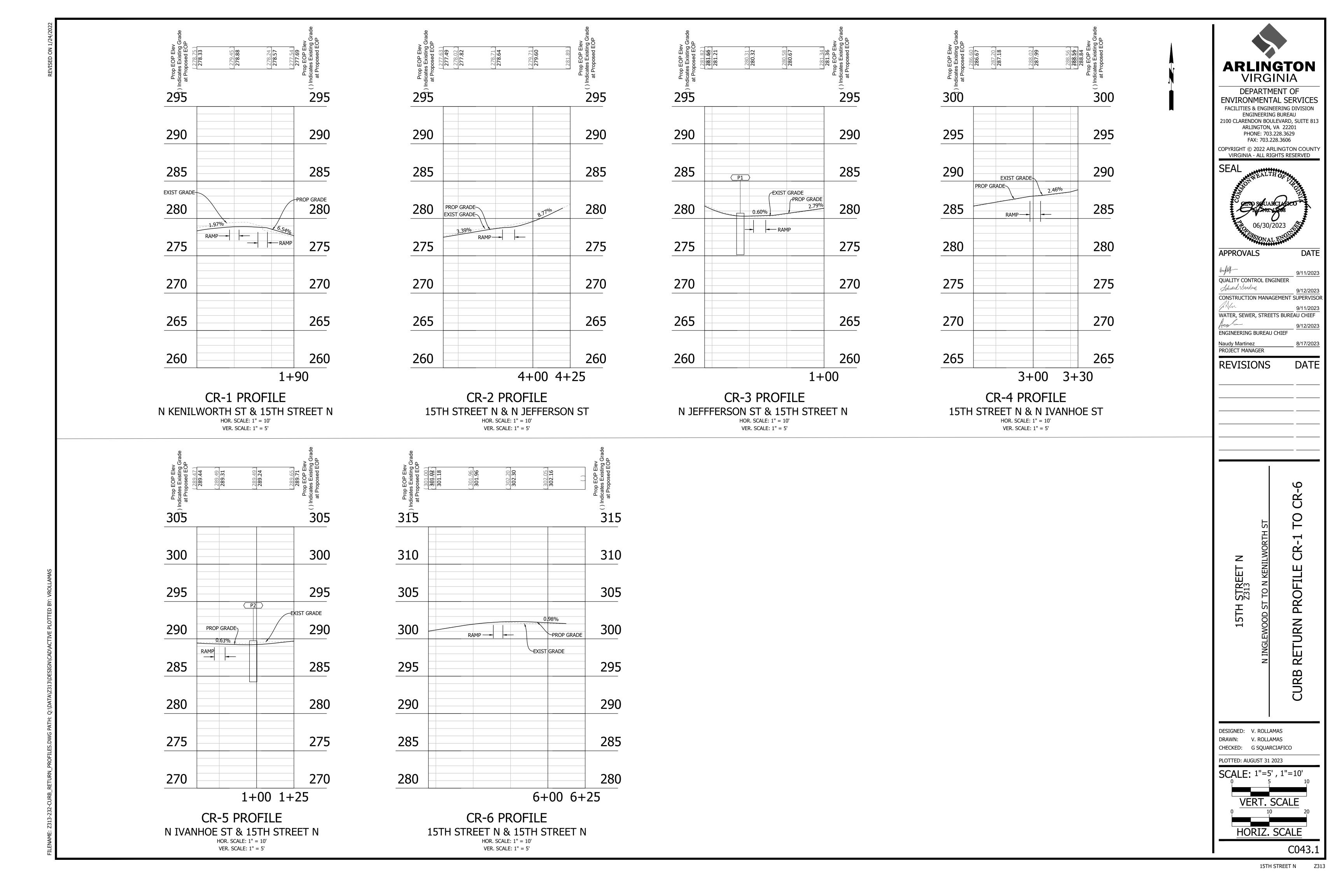
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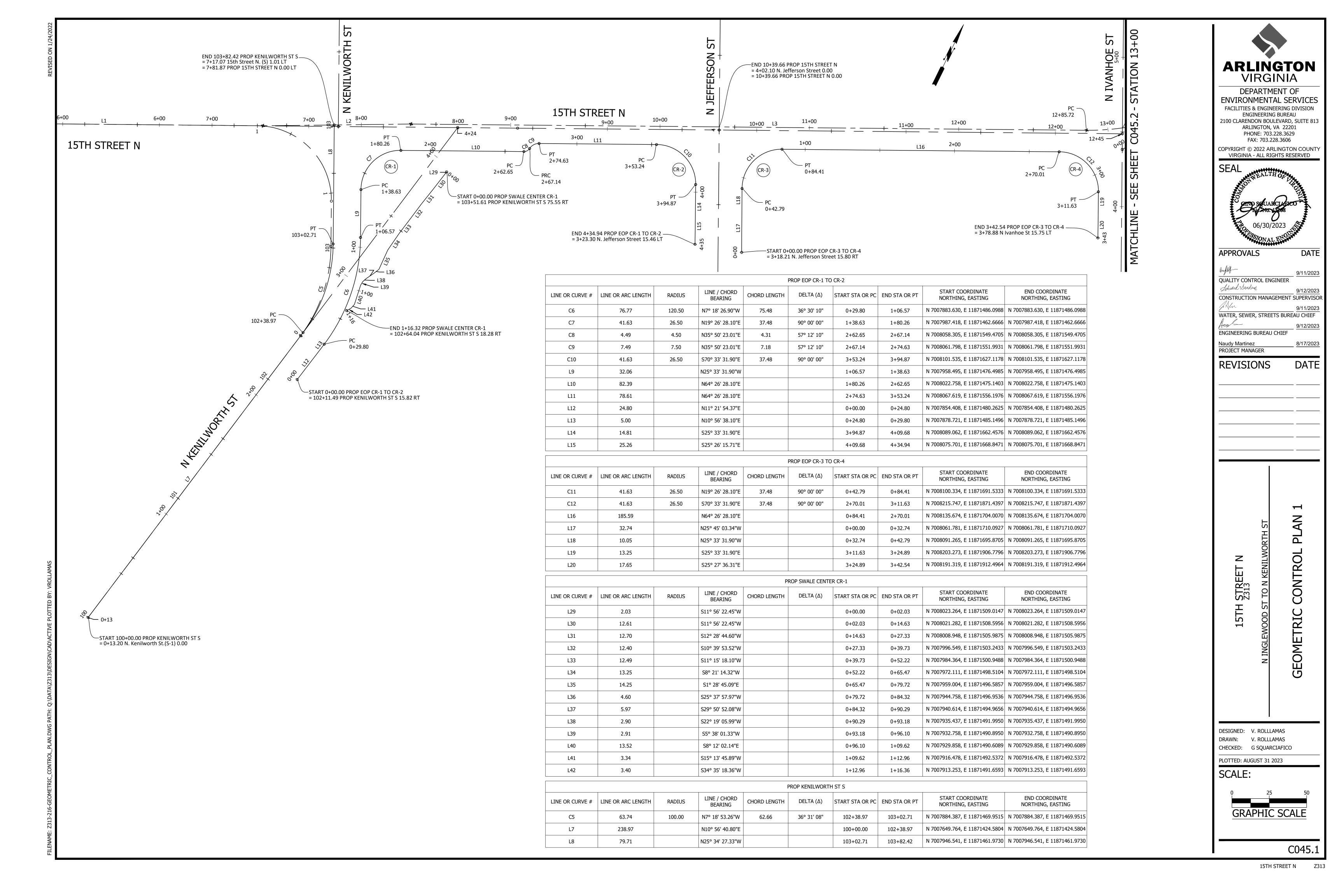
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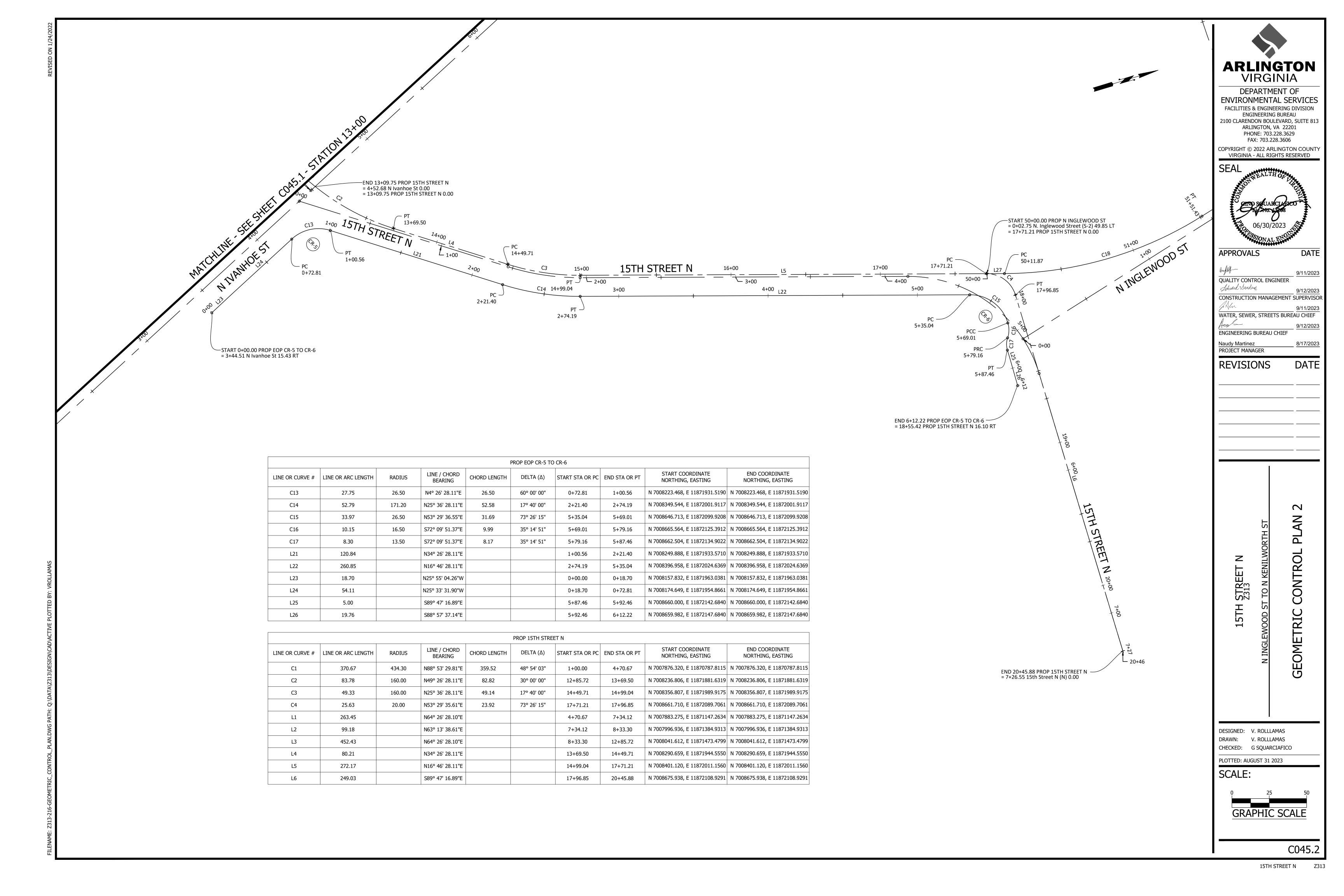
AS NOTED

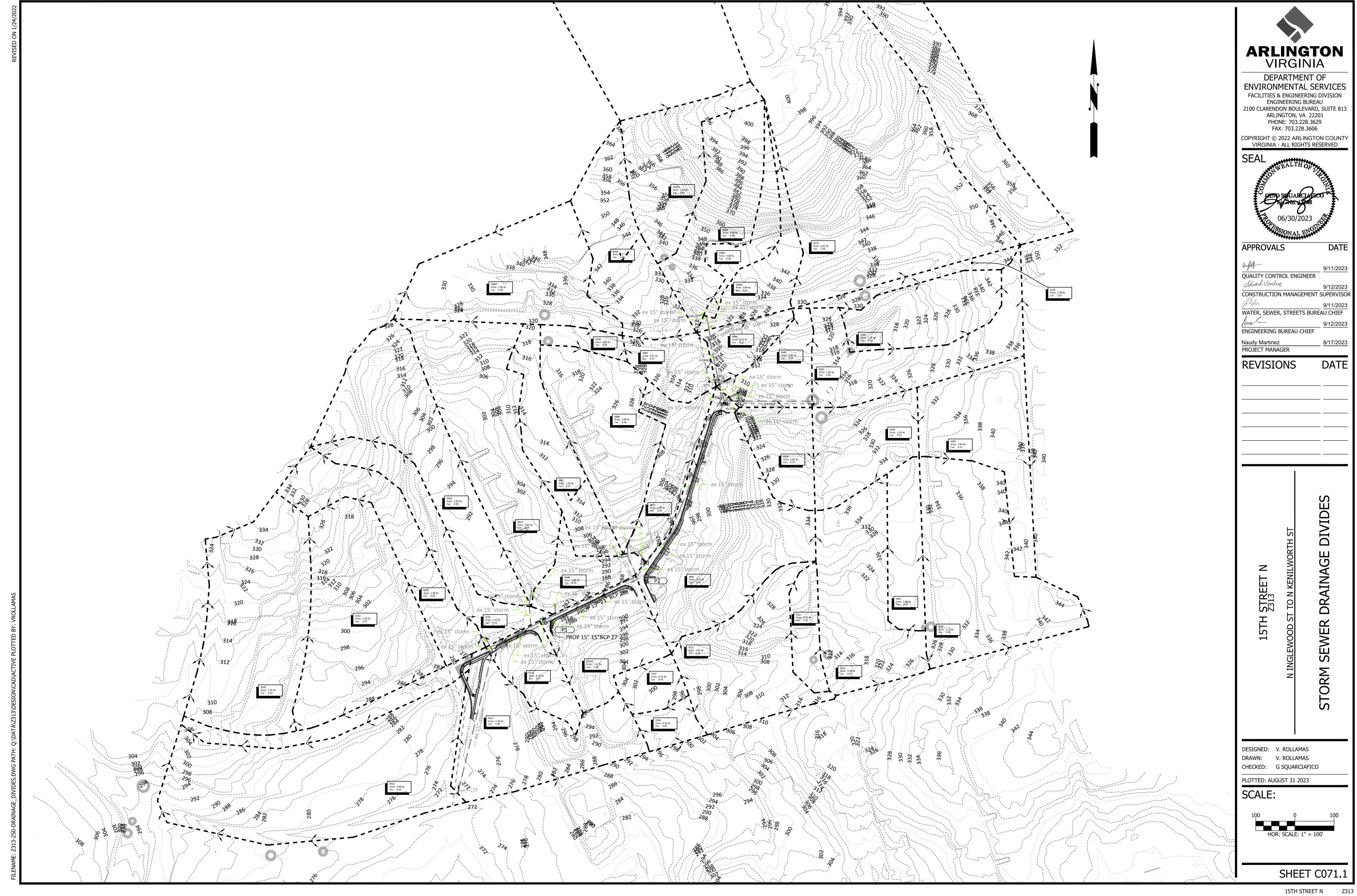
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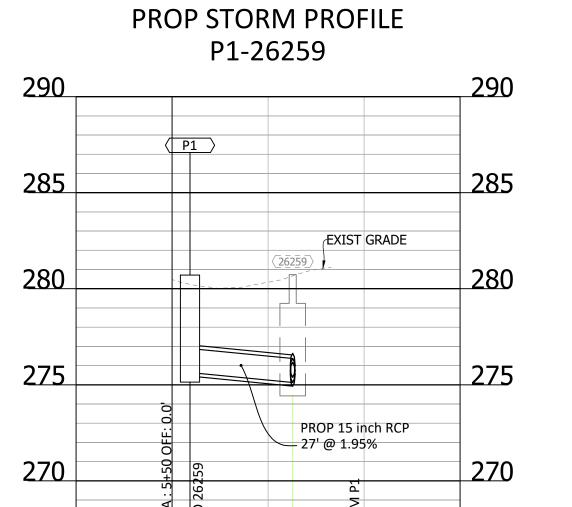




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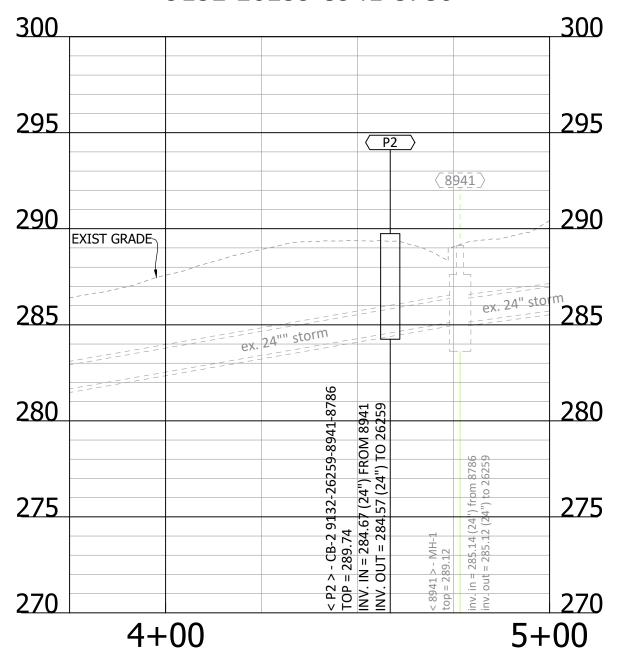
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0+00



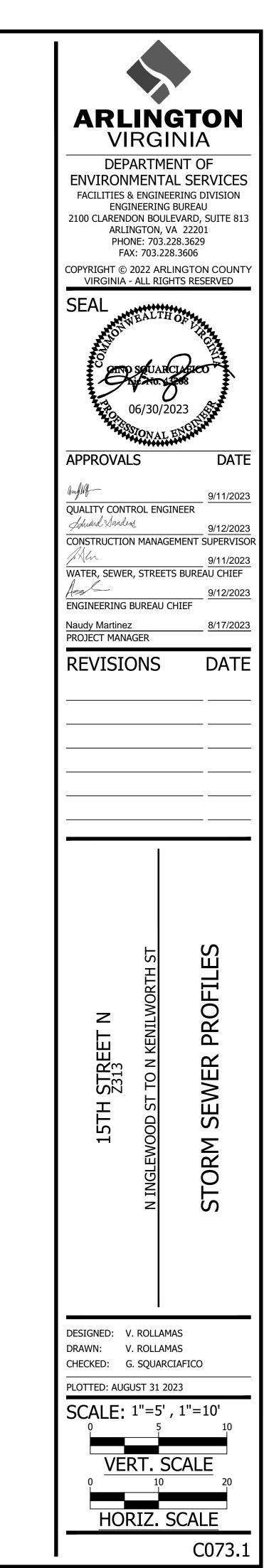
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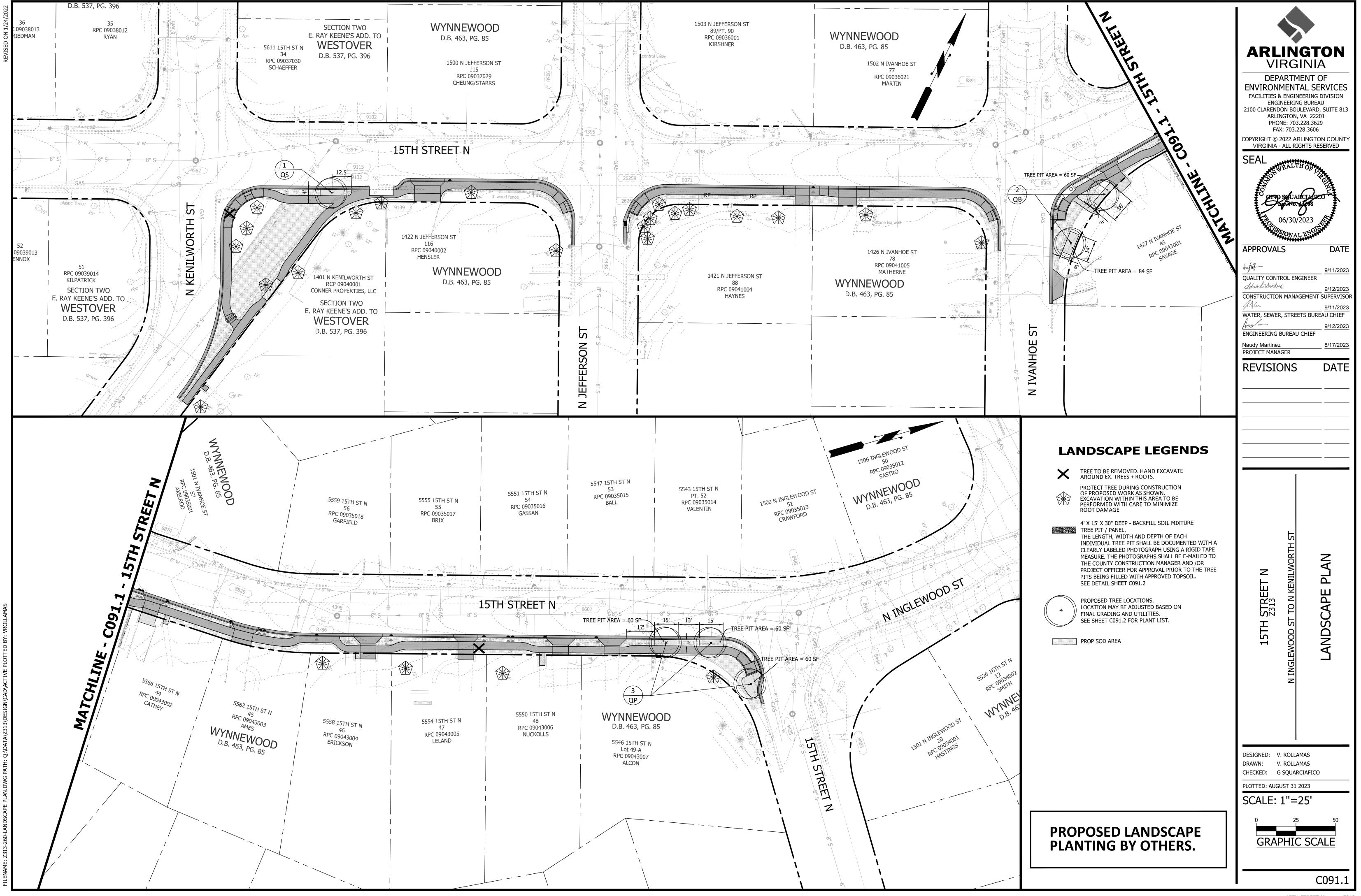
PROP STORM PROFILE 9132-26259-8941-8786

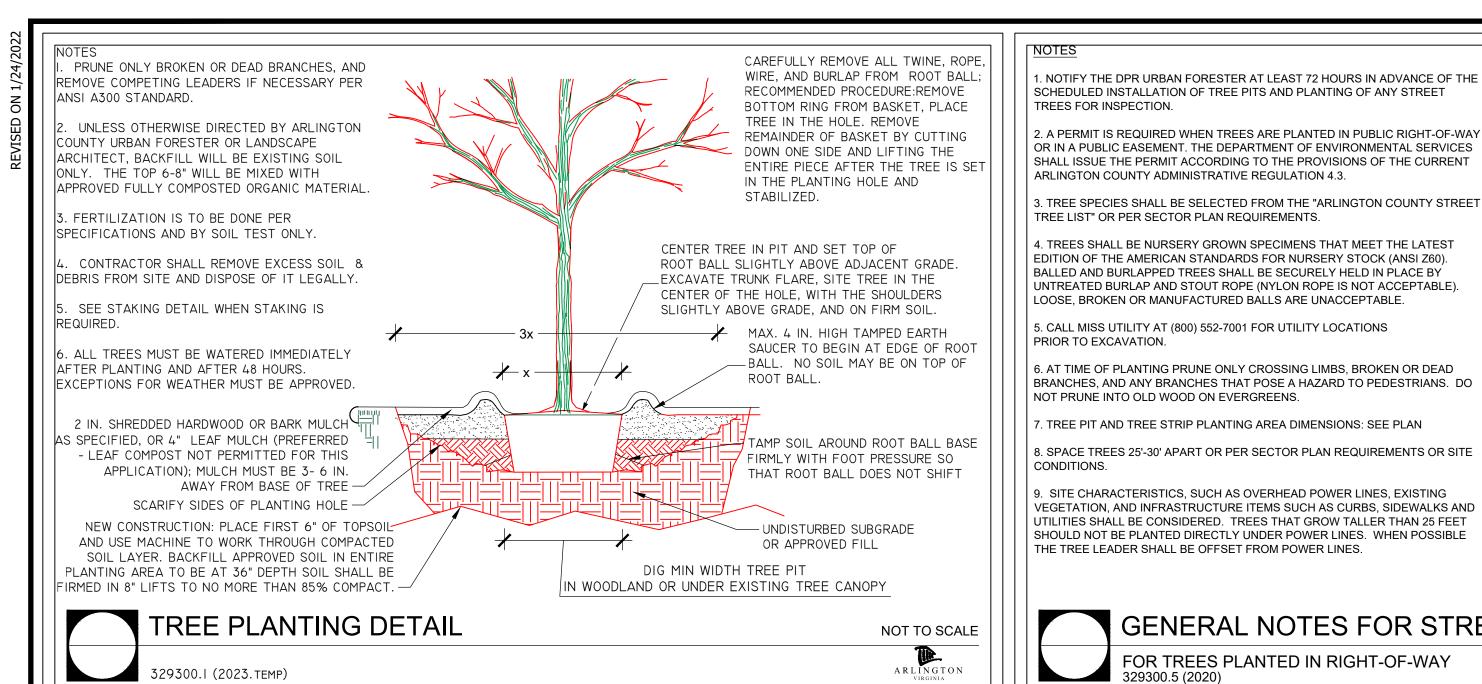


							Sto	orm Di	rain D	esigr	1 Com	puta	tions						
From	То	Drainage Area	Runoff Coefficient		CA		Inlet Time	Time of Conc.	Rainfall	Dunoff	Inv	ert itions	Length	Slope	Diameter	Capacity	Velocity	How Time	Domonico
Point	Point	Acres	С	Incr.	Piped In	Accum.	min	min	in/hr	cfs	Upper End	Lower End	ft	%	in	cfs	fps	min	Remarks
26244	26243	1.64	0.53	0.87	0.00	0.87	5.00	5.00	6.79	5.90	331.23	327.83	35.00	9.71%	15	20.13	-	0.00	
26243	8288	0.00	1.00	0.00	0.00	0.87	5.00	5.00	6.79	5.90	327.76	317.60	140.00	7.26%	15	17.40	-	0.00	
8298	8288	1.77	0.65	1.15	0.00	1.15	5.00	5.00	6.79	7.81	319.59	318.06	40.00	3.82%	15	12.63	-	0.00	
8288	24847	1.69	0.48	0.81	0.00	2.83	5.00	5.00	6.79	19.22	318.16	317.07	22.00	4.95%	15	14.38	-	0.00	
24847	24848	0.58	0.50	0.29	0.00	3.12	5.00	5.00	6.79	21.19	317.07	314.54	15.00	16.87%	24	92.91	-	0.00	
24848	8352	0.84	0.51	0.43	0.00	3.55	5.00	5.00	6.79	24.10	314.30	310.16	33.00	12.55%	24	80.13	-	0.00	
8219	8230	9.07	0.50	4.54	0.00	4.54	5.00	5.00	6.79	30.79	324.94	324.50	19.00	2.32%	24	34.43	-	0.00	
8244	8230	0.38	0.67	0.25	0.00	0.25	5.00	5.00	6.79	1.73	325.17	324.94	20.00	1.15%	15	6.93	-	0.00	
8230	8283	0.00	1.00	0.00	0.00	4.79	5.00	5.00	6.79	32.52	323.69	320.23	228.50	1.51%	30	50.47	-	0.00	
8283	8314	0.00	1.00	0.00	0.00	4.79	5.00	5.00	6.79	32.52	320.23	314.50	134.00	4.28%	30	84.82	-	0.00	
8314	8352	0.00	1.00	0.00	0.00	4.79	5.00	5.00	6.79	32.52	314.50	310.16	39.49	10.99%	30	135.97	-	0.00	
8352	8452	0.00	1.00	0.00	0.00	8.34	5.00	5.00	6.79	56.61	309.86	300.63	113.00	8.17%	30	117.23	-	0.00	
8444	8452	0.53	0.57	0.30	0.00	0.30	5.00	5.00	6.79	2.05	302.92	302.82	5.00	2.00%	15	9.14	-	0.00	
8452	8491	0.00	1.00	0.00	0.00	8.64	5.00	5.00	6.79	58.67	300.53	296.11	53.00	8.34%	30	118.45	-	0.00	
8482	8491	0.67	0.57	0.38	0.00	0.38	5.00	5.00	6.79	2.59	300.69	296.11	44.00	10.41%	15	20.84	-	0.00	
8491	8607	0.00	1.00	0.00	0.00	9.02	5.00	5.00	6.79	61.26	296.10	293.19	127.00	2.29%	36	100.96	-	0.00	
8607	8825	0.00	1.00	0.00	0.00	9.02	5.00	5.00	6.79	61.26	293.18	287.24	220.00	2.70%	36	109.60	-	0.00	
8825	8911	0.00	1.00	0.00	0.00	9.02	5.00	5.00	6.79	61.26	287.24	284.26	100.00	2.98%	36	115.14	-	0.00	
8874	8883	0.91	0.55	0.50	0.00	0.50	5.00	5.00	6.79	3.40	287.17	286.58	28.00	2.11%	15	9.38	-	0.00	
8883	8911	0.00	1.00	0.00	0.00	0.50	5.00	5.00	6.79	3.40	286.55	284.26	31.00	7.39%	15	17.56	-	0.00	
8911	8955	0.00	1.00	0.00	0.00	9.52	5.00	5.00	6.79	64.66	284.26	283.08	40.00	2.95%	36	114.56	-	0.00	
8868	8890	2.08	0.48	1.00	0.00	1.00	5.00	5.00	6.79	6.78	289.77	286.78	25.00	11.96%	15	22.34	-	0.00	
8891	8890	1.30	0.57	0.74	0.00	0.74	5.00	5.00	6.79	5.03	289.57	288.31	22.00	5.73%	15	15.46	-	0.00	
8890	8955	0.00	1.00	0.00	0.00	1.74	5.00	5.00	6.79	11.81	286.28	283.08	52.00	6.15%	21	39.31	-	0.00	
8955	9071	0.00	1.00	0.00	0.00	11.26	5.00	5.00	6.79	76.47	283.08	275.78	223.00	3.27%	36	120.68	-	0.00	
9048	9071	0.68	0.55	0.37	0.00	0.37	5.00	5.00	6.79	2.54	277.71	275.78	24.00	8.04%	15	18.32	-	0.00	
9071	9084	0.00	1.00	0.00	0.00	11.64	5.00	5.00	6.79	79.01	275.78	273.58	162.00	1.36%	36	77.73	-	0.00	
9014	9056	2.82	0.52	1.47	0.00	1.47	5.00	5.00	6.79	9.96	279.93	276.60	36.00	9.25%	15	19.65	-	0.00	
9050	9056	2.69	0.50	1.35	0.00	1.35	5.00	5.00	6.79	9.13	277.63	276.60	12.00	8.58%	15	18.93	-	0.00	
9056	9084	0.00	1.00	0.00	0.00	2.81	5.00	5.00	6.79	19.09	276.60	273.58	52.00	5.81%	18	25.31	-	0.00	
9084	9132	0.00	1.00	0.00	0.00	14.45	5.00	5.00	6.79	98.09	273.58	269.49	110.00	3.72%	36	128.61	-	0.00	
9102	9115	9.33	0.56	5.22	0.00	5.22	5.00	5.00	6.79	35.47	270.28	269.49	23.00	3.43%	24	41.93		0.00	
9115	9132	0.00	1.00	0.00	0.00	5.22	5.00	5.00	6.79	35.47	269.47	269.46	1.00	1.00%	42	100.61	-	0.00	
8385	8404	1.35	0.45	0.61	0.00	0.61	5.00	5.00	6.79	4.12	307.71	305.23	104.00	2.38%	18	16.22	-	0.00	
8404	8502	0.00	1.00	0.00	0.00	0.61	5.00	5.00	6.79	4.12	305.23	303.66	99.00	1.59%	18	13.23	-	0.00	
8540	8502	1.35	0.53	0.72	0.00	0.72	5.00	5.00	6.79	4.86	309.10	307.77	40.00	3.33%	15	11.78	-	0.00	
8502	8498	1.82	0.54	0.98	0.00	2.31	5.00	5.00	6.79	15.65	303.51	297.37	225.00	2.73%	21	26.17	-	0.00	
8483	8498	0.80	0.54	0.43	0.00	0.43	5.00	5.00	6.79	2.93	298.75	298.27	7.00	6.86%	15	16.92	-	0.00	
8528	8498	0.87	0.57	0.50	0.00	0.50	5.00	5.00	6.79	3.37	299.87	298.20	45.00	3.71%	15	12.44	-	0.00	
8498	8786	0.00	1.00	0.00	0.00	3.23	5.00	5.00	6.79	21.95	297.34	289.61	299.00	2.59%	21	25.48	-	0.00	
8786	8941	0.00	1.00	0.00	0.00	3.23	5.00	5.00	6.79	21.95	289.59	285.14	165.00	2.70%	21	26.02	-	0.00	
8941	26259	3.32	0.51	1.69	0.00	4.93	5.00	5.00	6.79	33.45	285.12	275.12	285.00	3.51%	24	42.38	-	0.00	
26260	26259	1.42	0.54	0.77	0.00	0.77	5.00	5.00	6.79	5.21	276.09	275.39	11.00	6.36%	15	16.30	-	0.00	
26259	9132	0.00	1.00	0.00	0.00	11.39	5.00	5.00	6.79	77.31	274.92	269.46	166.00	3.29%	21	28.74	-	0.00	
9132	9139	0.00	1.00	0.00	0.00	31.06	5.00	5.00	6.79	210.88	269.46	269.45	1.00	1.00%	42	100.61	-	0.00	
9139	9433	0.74	0.57	0.42	0.00	31.48	5.00	5.00	6.79	213.74	269.45	260.10	370.00	2.53%	42	159.94	-	0.00	
9432	9433	5.20	0.56	2.92	0.00	2.92	5.00	5.00	6.79	19.85	268.35	266.27	55.00	3.78%	24	43.99	-	0.00	
9417	9433	2.30	0.60	1.38	0.00	1.38	5.00	5.00	6.79	9.37	269.80	268.60	28.00	4.29%	15	13.37	-	0.00	
P1	26259	1.42	0.54	0.77	0.00	0.77	5.00	5.00	6.79	5.21	275.64	275.12	26.00	2.00%	15	9.14	-	0.00	
8941	P2	3.32	0.51	1.69	0.00	4.93	5.00	5.00	6.79	33.45	285.12	284.67	13.00	3.46%	21	29.48	-	0.00	
P2	26259	0.00	0.51	0.00	0.00	4.93	5.00	5.00	6.79	33.45	284.67	275.12	274.00	3.49%	21	29.58	-	0.00	

														Sto	orm Iı	nlet C	omput	ations													
		Inle	et					Flow										Curb Inlet	:							Operation			Sag Inle	ts Only	
Numb	er Ty	уре	Length (ft)	Station	Drainage Area (acres)	С	CA	i (in/hr)	Q Incr (ft³/s)	Q Carryover (ft³/s)	Q _T (ft³/s)	S Gutter Slope (ft/ft)	Sx Crossslope (ft/ft)	T Spread (ft)	W (ft)	W/T	Sw (ft/ft)	Sw/Sx	Eo	a (in)	S'w	Se (ft/ft)	L _T Computed Length (ft)	L/L _T	E (%)	Q _i Intercepted (ft ³ /s)	Q _b Carryover (ft ³ /s)	d (ft)	h (ft)	d/h	T Spread @ Sag (ft)
P1	DI-2	2C	8		1.42	0.54	0.767	4.00	3.07	0.00	3.067		0.02083		1.50		0.0833											0.25	0.46	0.00	7.66
P2	CB-2	2A	8		3.32	0.51	1.693	4.00	6.77	0.00	6.773		0.02083		1.50		0.0833											0.42	0.42	0.00	15.81







10. BACKFILL SOIL MIXTURE SHALL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC I. NOTIFY THE DPR URBAN FORESTER AT LEAST 72 HOURS IN ADVANCE OF THE SCHEDULED INSTALLATION OF TREE PITS AND PLANTING OF ANY STREET

MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER. PEAT MOSS MAY NOT BE USED. 2. A PERMIT IS REQUIRED WHEN TREES ARE PLANTED IN PUBLIC RIGHT-OF-WAY

11. IF THE QUANTITY OF ACCEPTABLE EXISTING SOIL IS INSUFFICIENT FOR THE OR IN A PUBLIC EASEMENT. THE DEPARTMENT OF ENVIRONMENTAL SERVICES PLANTING REQUIREMENTS, THE CONTRACTOR MAY USE TOPSOIL. SOIL TEST REPORT RESULTS FOR THE TOPSOIL WILL BE MADE AVAILABLE TO THE COUNTY URBAN FORESTER UPON REQUEST. CONTRACTOR SHALL SUBMIT TOPSOIL FOR APPROVAL TO COUNTY URBAN FORESTER THAT MEETS THE FOLLOWING 3. TREE SPECIES SHALL BE SELECTED FROM THE "ARLINGTON COUNTY STREET SPECIFICATIONS:

(A.) TOPSOIL CONSISTS OF A SANDY LOAM WITH UNIFORM COMPOSITION

AND IS FREE OF STONES, LUMPS, PLANTS, ROOTS, AND OTHER DEBRIS OVER 1/2" IN LENGTH. (B.) TOPSOIL HAS A PH RANGE OF 5.5 TO 6.5 AND A MINIMUM CONTENT OF 1.0% ORGANIC MATTER

(C.) TOPSOIL DOES NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT GROWTH. SOLUBLE SALT LEVEL SHALL NOT EXCEED 3 MILLIOHMS PER CENTIMETER.

12. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.

13. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS. DO FORESTER. REFER TO ARLINGTON COUNTY STANDARD STAKING DETAILS.

> 14. MULCH SHALL BE CLEAN, SCREENED, DOUBLE-HAMMERED HARDWOOD BARK MULCH, UNIFORM IN SIZE AND FREE OF STONES, CLODS, NON-ORGANIC DEBRIS AND OTHER FOREIGN MATERIAL.

15. ALL PLANTS SHALL BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION. EACH WATERING WILL CONSIST OF 20 GALLONS PER TREE.

16. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.



GENERAL NOTES FOR STREET TREE PLANTINGS

FOR TREES PLANTED IN RIGHT-OF-WAY



LANDSCAPING NOTES AND LEGEND

- 1. TREE PLANTING BY OTHERS. TREES SHALL BE INSTALLED AFTER HARDSCAPE CONSTRUCTION IS COMPLETED, IN THE NEXT PLANTING SEASON.
- 2. CONTRACTOR TO COORDINATE SPECIES WITH THE COUNTY LANDSCAPE ARCHITECT AND COUNTY URBAN FORESTER.
- CALL THE COUNTY URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED.

3. TREES TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION. CONTRACTOR TO

- 4. THE CONTRACTOR IS RESPONSIBLE FOR CALLING MISS UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
- 5. TREES TO BE INSTALLED PER CONTRACT SPECIFICATIONS.
- 6. FOLLOW ADMINISTRATIVE REGULATION 4.3: TREE PLANTING ON PUBLIC PROPERTY FOR ALL TREE PLANTINGS.
- 7. CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES).
- TRIMMED TO MAINTAIN SIGHT DISTANCE. 9. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

8. BRANCHES ON PROPOSED TREES WHICH ARE LESS THAN 4' ABOVE GRADE SHALL BE

- THE COUNTY URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION. THE COUNTY URBAN FORESTER WILL COORDINATE WITH DPR STAFF ON SCHEDULING INSPECTIONS 2 YEARS AFTER PLANTING TO ASSUME RESPONSIBILITY.
- 10. WATERING FOR 2 YEARS AFTER PLANTING IS TO BE INCLUDED FOR NEWLY-PLANTED TREES. DPR WILL TAKE RESPONSIBILITY OF OTHER MAINTENANCE, AND AFTER 2 YEARS, WATER AS NEEDED.

PROPOSED TOPSOIL AND SEED

1. AREAS OF PROPOSED TOPSOIL AND SEED ARE SHOWN ON THE TYPICAL ROADWAY SECTIONS ON SHEET C004.1.

EXISTING TREES

1. FOR THOSE EXISTING TREES TO BE PROTECTED OR REMOVED, SEE E&S PLAN ON SHEETS C041.1.

TREE PLANTING NOTES

1. CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING, TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION. CONTRACTOR TO PREPARE TREE PLANTING STRIPS FOR THE REPLACEMENT TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 3293000.4A, 329300.4B.

- 1.1. ALL PLANTS TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION
- 1.2. ALL PLANTS TO BE INSTALLED PER CONTRACT SPECIFICATIONS
- 1.3. THE CONTRACTOR IS RESPONSIBLE FOR CALLING MS. UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
- 2. CONTRACTOR TO PREPARE STREET TREE PLANTING PITS ACCORDING TO THE ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.3A, 329300.3B AND 329300.11C

3.	CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN
	STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES)

Key	Qty.	Botanical Name	Common Name	Size/Cal.	Cond.	Spacing	Remarks
Decidu	ous Tree	2S					
QS	1	Quercus shumardii	Shumard Oak	2" cal.	B&B	As Shown	Single Trunk, Full Specimen
QB	2	Quercus bicolor	Swamp White Oak	2" cal.	B&B	As Shown	Single Trunk, Full Specimen
QP	3	Quercus palustric	Pin Oak	2" cal.	B&B	As Shown	Single Trunk, Full Specimen

3. The contractor is responsible for calling Miss Utility prior to the scheduled date for plant installation. 4. Sod to be replaced as shown on plan. Area to be graded smooth prior to sod and plant installation.

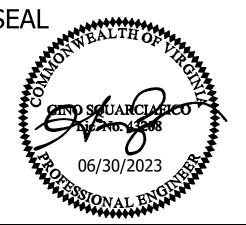
PROPOSED LANDSCAPE PLANTING BY OTHERS.

ARLINGTON VIRGINIA

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

DEPARTMENT OF

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APPROVALS DATE 9/11/2023

QUALITY CONTROL ENGINEER CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS

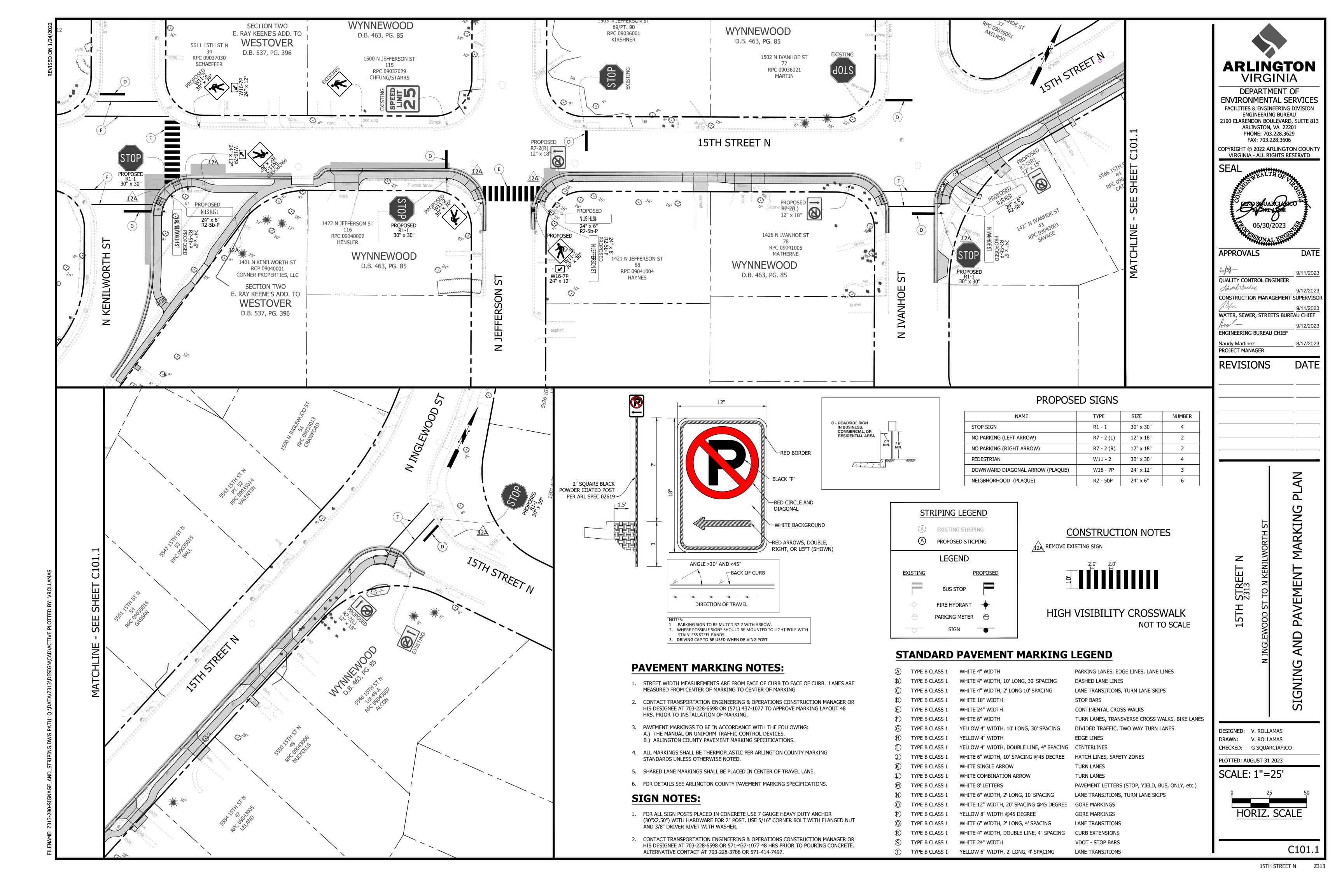
DESIGNED: V. ROLLAMAS DRAWN: V. ROLLAMAS CHECKED: G SQUARCIAFICO

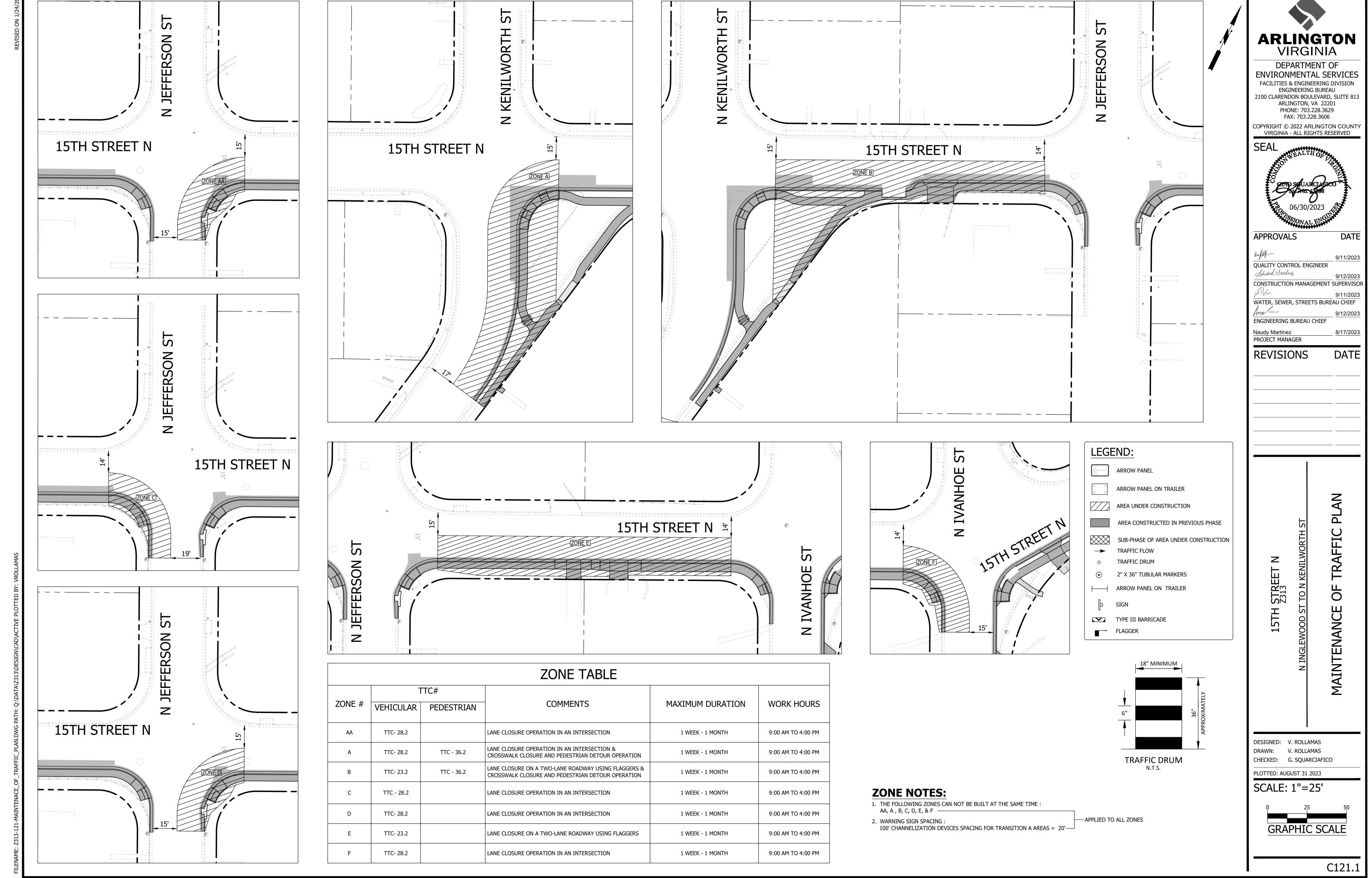
PLOTTED: AUGUST 31 2023

SCALE:

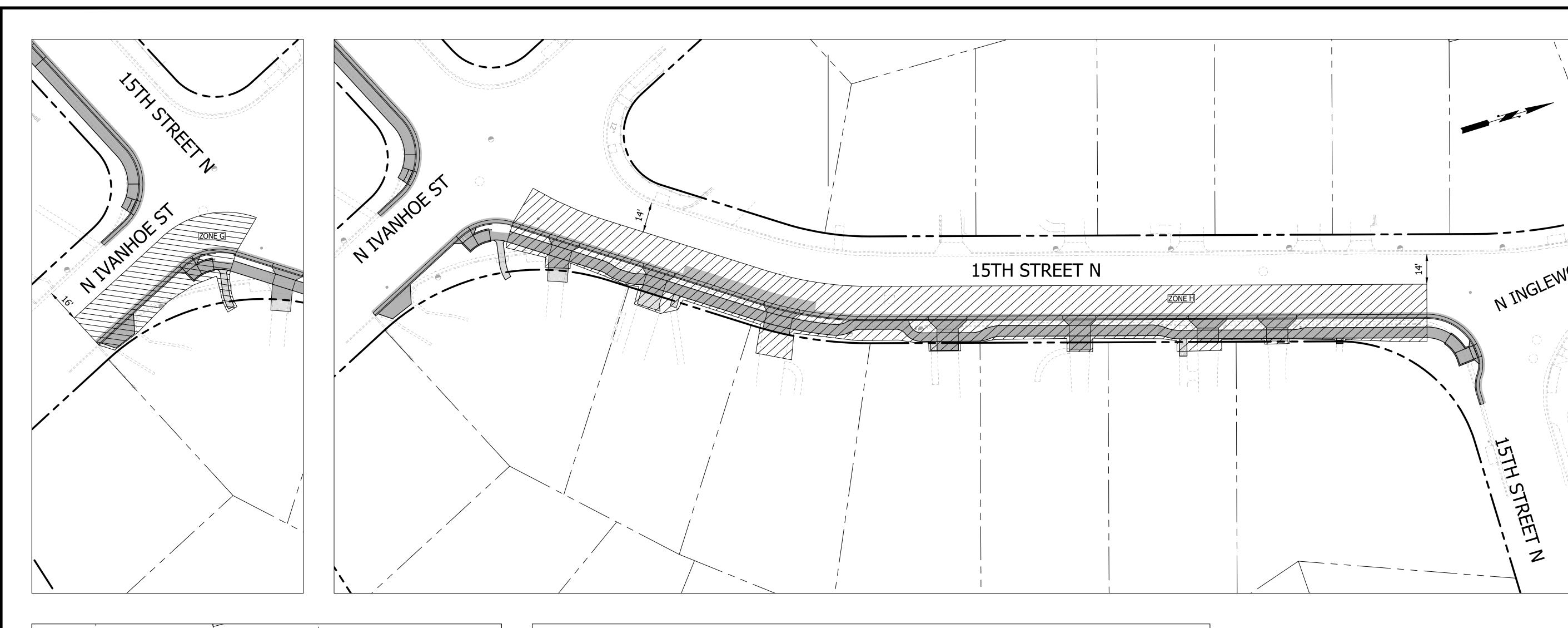
NOT TO SCALE

C091.2





1ETH CTREET N



	TINGLEWOOD ST
15TH STREET N	ZONE I

	ZONE TABLE								
ZONE #		ITC#	COMMENTS	MAXIMUM DURATION	WORK HOURS				
ZONL #	VEHICULAR PEDESTRIAN		COMMENTS	MAXIMOM DONATION	WORKTIOOKS				
G	TTC- 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM				
Н	TTC- 23.2		LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM				
I	TTC - 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM				

ZONE NOTES:

1. THE FOLLOWING ZONES CAN NOT BE BUILT AT THE SAME TIME :

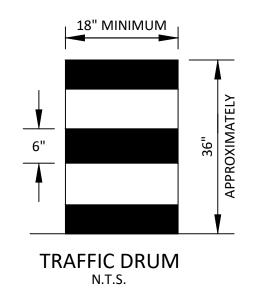
G, HANDI — - APPLIED TO ALL ZONES 2. WARNING SIGN SPACING : 100' CHANNELIZATION DEVICES SPACING FOR TRANSITION A AREAS = 20'

LEGI	END:
0000000	ARROW PANEL
	ARROW PANEL ON TRAILER

AREA UNDER CONSTRUCTION AREA CONSTRUCTED IN PREVIOUS PHASE SUB-PHASE OF AREA UNDER CONSTRUCTION → TRAFFIC FLOW TRAFFIC DRUM • 2" X 36" TUBULAR MARKERS ARROW PANEL ON TRAILER

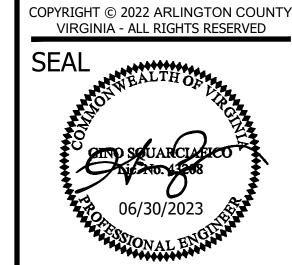
TYPE III BARRICADE

■ FLAGGER



ARLINGTON VIRGINIA

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



APPROVALS

9/11/2023 QUALITY CONTROL ENGINEER

DATE

CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

Naudy Martinez
PROJECT MANAGER

REVISIONS

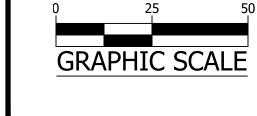
15TH

MAINTENANCE

DESIGNED: V. ROLLAMAS DRAWN: V. ROLLAMAS CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25'



C121.2

Page 6H-64

Guidance:

Support:

Engineer.

signs see Figure TTC-34.

1. The control of traffic through the intersection in order of preference should be:

500 vehicles per day). For additional information see Section 6E.07.2

or oscilllating¹ light should be parked 80'-120' in advance of the first work crew.

be physically impossible to make certain turns, especially for large vehicles.

4. Channelizing device spacing shall be on 20' centers or less.

Also, vehicle hazard warning signals shall be used.

a. Obtain the services of law enforcement personnel.

the posted speed limit is greater than 45 mph.

5. PTRS shall be used as noted in Section 6F.99.

devices shown in Figure TTC-36.

Typical Traffic Control

Lane Closure Operation in an Intersection

(Figure TTC-28.2)

NOTES

b. Detour the effective routes to other roads and streets as approved and directed by the District² Traffic

Appropriate signing as shown should be used for law enforcement and flagging operations. For detour

c. Place a state certified flagger on each leg of the intersection controlling a single lane of traffic.

2. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where

3. To maintain efficient traffic flow in a flagging operation on a two-lane roadway the maximum time motorist should be stopped at a flagger station is 8 minutes for high volume roadways (average daily

6. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing

7. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating

8. If the work space extends across a crosswalk, the crosswalk should be closed using the information and

9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might

amber lights or high intensity amber flashing or oscillating¹ lights mounted on the vehicle and

visible for 360° shall be required in addition to the channelizing devices shown around the vehicle.

traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than

Typical Traffic Control

September 2019

Page 6H-81

Standard:

September 2019

Page 6H-65

- 1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing
- 2. Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.
- 3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
- 4. Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.
- 5. Temporary markings should be considered for operations exceeding three days in duration.
- 6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or
- ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic. 7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and

closing sidewalks. **Standard:**

- 8. In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones.²
- 9. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.²

Support:

- 10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD¹ for crosswalk¹ lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.
- 11. The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line.
- 12. Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.

1: Revision 1 – 4/1/2015

September 2019

2: Revision 2 – 9/1/2019

1: Revision 1 – 4/1/2015

2: Revision 2 – 7/1/2018

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

NOTES

1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.

Typical Traffic Control

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

Standard:

Guidance:

Page 6H-54

- 4. Portable Temporary Rumle Strips (PTRS) shall be used as noted in Section 6F.99.
- 5. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).
- 6. All flaggers shall be state certified and have their certification card in their possession when
- performing flagging duties (see Section 6E.01, Qualifications for Flaggers). 7. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.
- 8. A shadow vehicle with at least one high intensity amber rotating, flashing, or oscillating light shall

be parked 80'-120' in advance of the first work crew. Option:

PTRS¹ should be readjusted at greater distances.

- 8. A SLOW (W21-V10) sign² may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.
- Guidance: 9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the
 - 10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).

Standard:

- 11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).
- Option: 12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet
 - 13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

Standard:1

September 2019

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

Lane Closure on a Two-Lane Roadway Using Flaggers

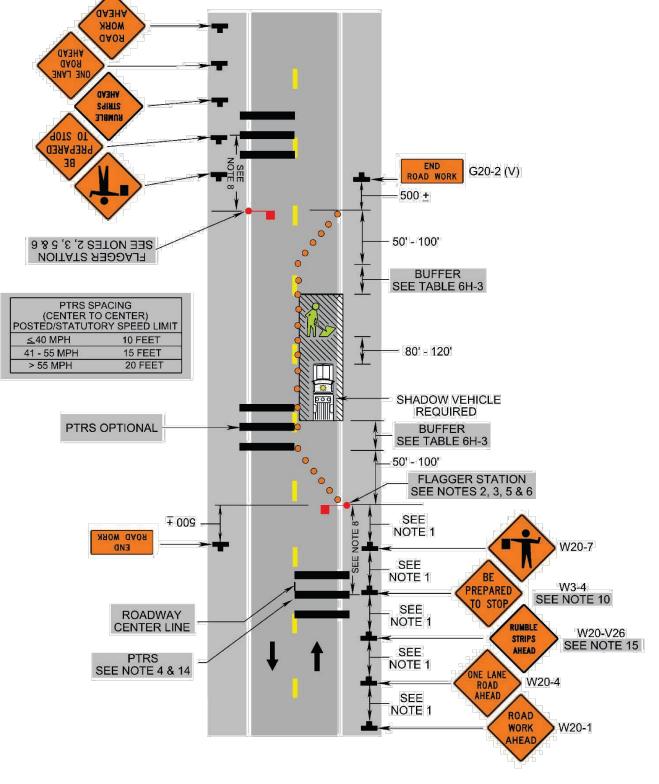
(Figure TTC-23.2)

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

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

September 2019

Page 6H-55



1: Revision 1 – 4/1/2015 2: Revision 2 – 9/1/2019 3: Revision 2.1 – 11/1/2020

S **JUN DIA** SEE BOTTOM RIGHT FOR SIGN LAYOUT SEE NOTE 3 **NOITATS** SEE TABLE 6H-3 SEE TABLE 6H-3 500' ± SEE NOTE 5 SEE TABLE 6H-3 FLAGGER STATION **SEE NOTE 3**

Lane Closure Operation in an Intersection

(Figure TTC-28.2)

2: Revision 2 – 9/1/2019

SEE NOTE 5

15 FEET 20 FEET

PTRS SPACING (CENTER TO CENTER) POSTED/STATUTORY SPEED LIMIT

41 - 55 MPH > 55 MPH

(Figure TTC-36.2) PAVEMENT MARKING SEE NOTE 10 6" TEMPORARY PAVEMENT MARKING FOR MID-BLOCK CROSSWALK AHEAD R9-11L CROSS HERE TYPE 3 BARRICADE

Crosswalk Closure and Pedestrian Detour Operation

ARLINGTON VIRGINIA

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

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APPROVALS DATE 9/11/2023 **OUALITY CONTROL ENGINEER**

CONSTRUCTION MANAGEMENT SUPERVISOR 9/11/2023 WATER, SEWER, STREETS BUREAU CHIEF 9/12/2023

Lohnard Danders

ENGINEERING BUREAU CHIEF 8/17/2023 Naudy Martinez PROJECT MANAGER

REVISIONS

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<u>O</u> STRI Z313 OF ET 5TH MAINTENAN

DESIGNED: V. ROLLAMAS DRAWN: V. ROLLAMAS CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

AS SHOWN

C122.1

CONSTRUCTION NOTES

- 1. FOR ALL ARTERIAL STREETS, PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF THE PROJECT SITE AT EACH VEHICULAR APPROACH 3 WEEKS PRIOR TO STREET CLOSURE IN LOCATIONS DIRECTED BY THE PROJECT OFFICER.
- 2. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
- 3. CONTACT TRANSPORTATION ENGINEERING OPERATIONS AT 703-228-6598 OR 571-437-1077 AND THE PROJECT OFFICER TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
- 4. ONE LANE CLOSURE IN EACH DIRECTION OF TRAFFIC WILL BE PERMITTED FOR FINAL PAVEMENT OVERLAY.
- 5. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC ON ANY INTERSECTION WITHIN THE WORK AREA.
- 6. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY PUBLIC SCHOOLS TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER
- 8. WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.

MOT NOTES:

- 1. PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT OF WAY PERMIT. CONTACT DES-PERMITTING SECTION, 703-228-4798, AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 2. ALL TEMPORARY BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
- 3. THE CONTRACTOR SHALL MAINTAIN ADA ACCESSIBLE PARKING SPACES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT DES - PERMITING, 703-228-4798, TO COORDINATE RELOCATION OF EXISTING ADA ACCESSIBLE PARKING SPACES OR TO INSTALL TEMPORARY SIGNAGE OUT OF AND ADJACENT TO THE WORK ZONE AS CONSTRUCTION PROGRESSES. MULTIPLE RELOCATIONS MAY BE NECESSARY DURING EACH PHASE.

PEDESTRIAN NOTE:

1. PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDBLOCK WORK SITES.



DEPARTMENT OF

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

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APPROVALS DATE

9/11/2023 QUALITY CONTROL ENGINEER Schrard Sanders

CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF

9/12/2023 ENGINEERING BUREAU CHIEF

8/17/2023

Naudy Martinez PROJECT MANAGER

REVISIONS

DESIGNED: V. ROLLAMAS DRAWN: V. ROLLAMAS

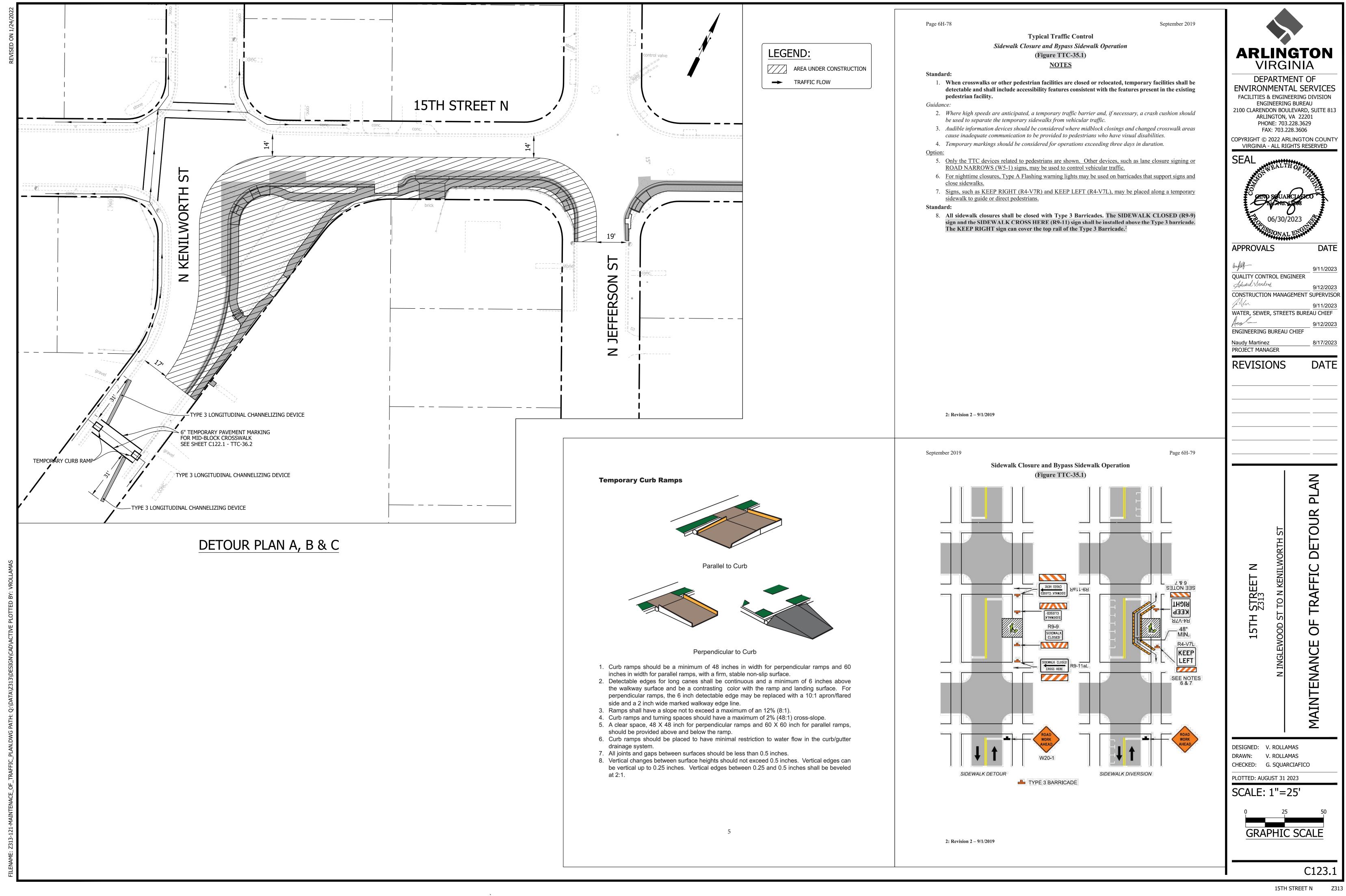
CHECKED: G. SQUARCIAFICO

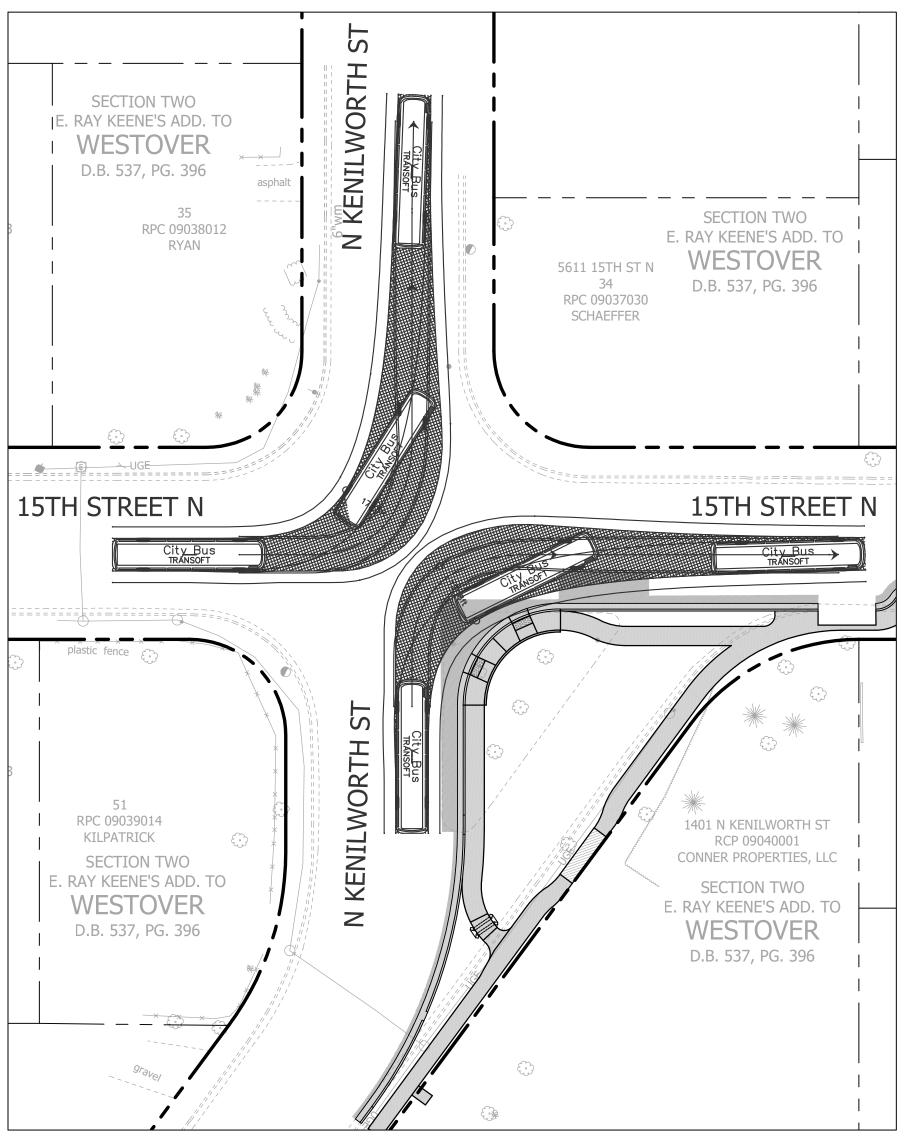
PLOTTED: AUGUST 31 2023

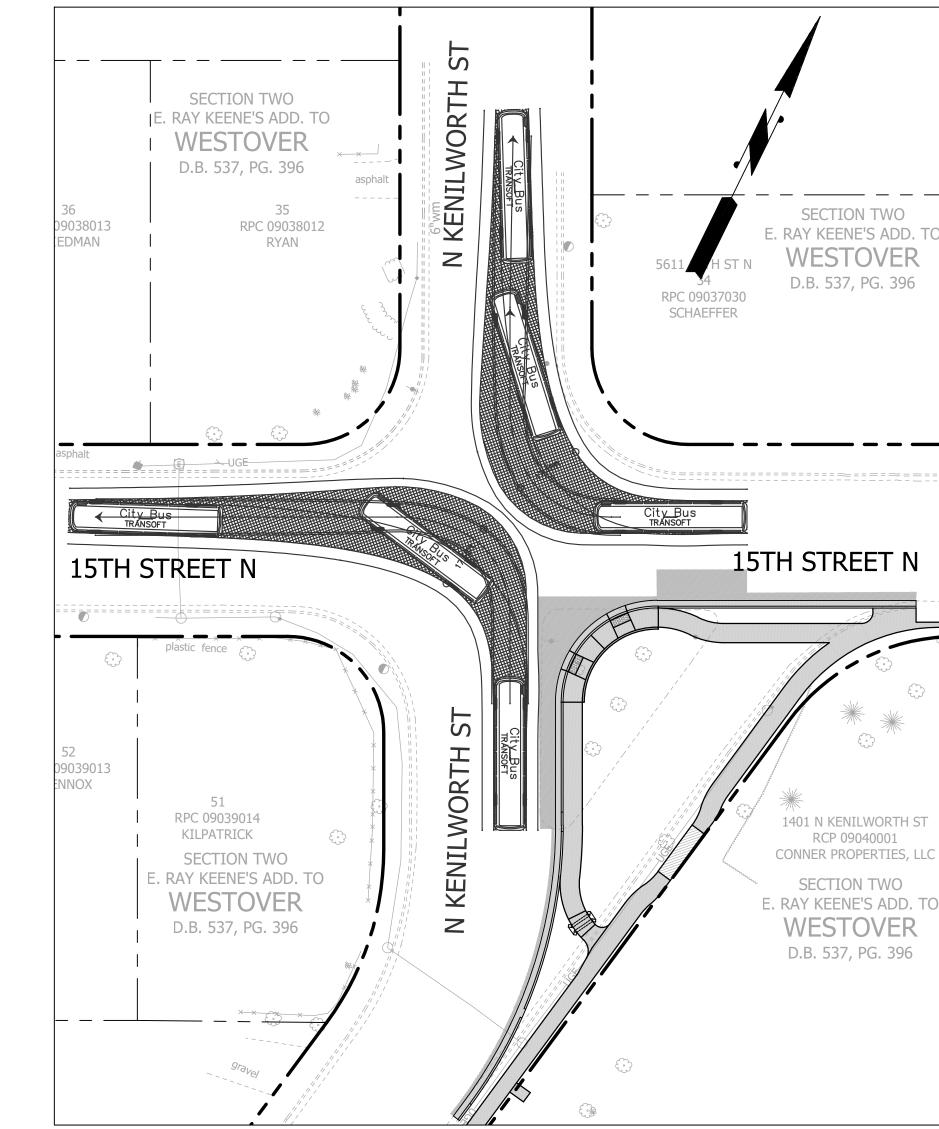
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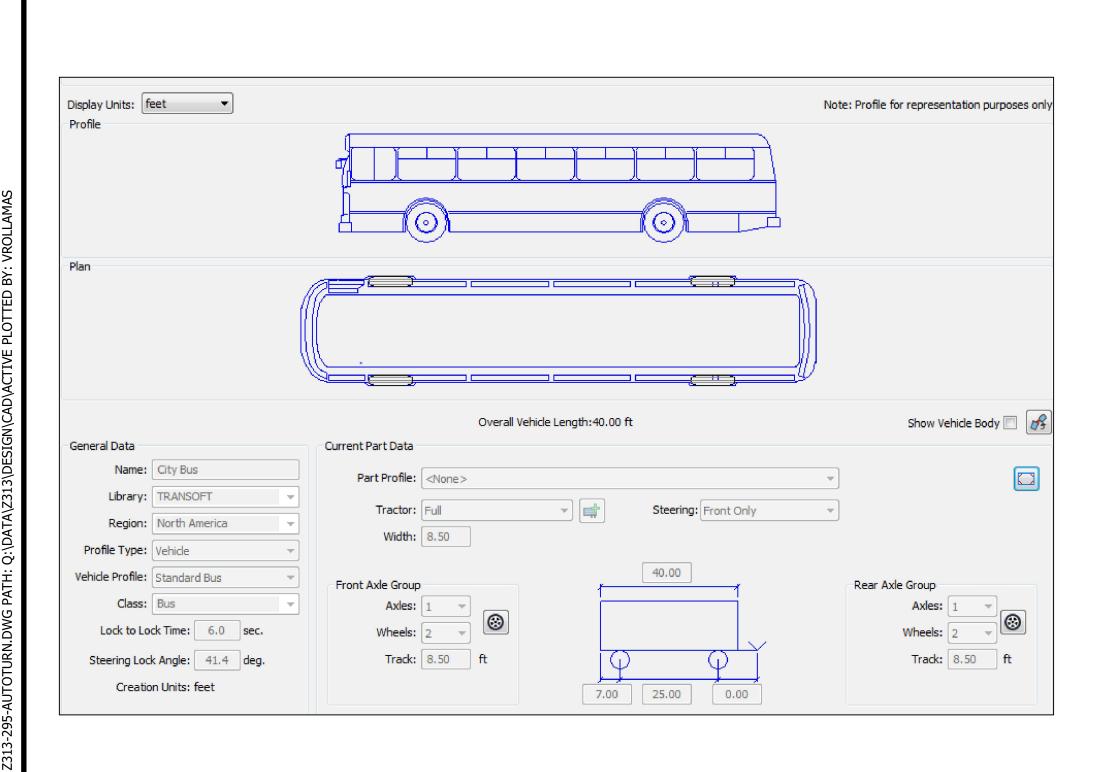
C122.2

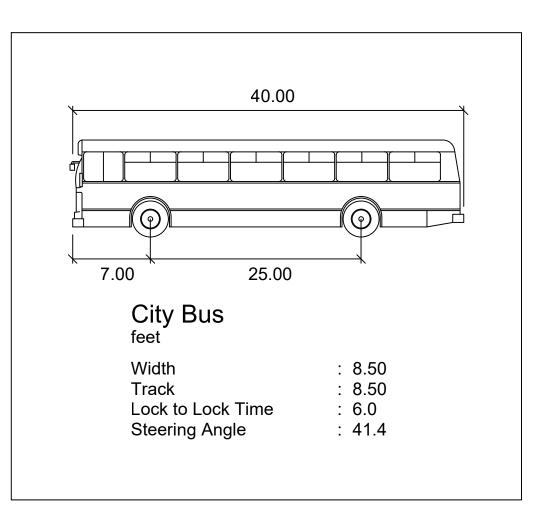
MAINTENANCE











• THE DESIGN VEHICLE USED FOR TURNING SIMULATION FOR PROPOSED DESIGN IS AN AASHTO CITY BUS. THE TURNING MOVEMENTS DEPICTED SHOW THAT A CITY BUS CAN PERFORM THE TURNING

MOVEMENTS INTO AND OUT OF 15TH STREET N AND N KENILWORTH ST. HOWEVER, THE FOLLOWING

1) LEFT TURN INTO N KENILWORTH ST FROM WEST BOUND 15TH STREET N

4) LEFT TURN INTO N KENILWORTH N FROM EAST BOUND 15TH STREET N

5) RIGHT TURN INTO N KENILWORTH ST FROM WEST BOUND 15TH STREET N

6) LEFT TURN INTO 15TH STREET N FROM SOUTH BOUND N KENILWORTH ST 7) RIGHT TURN INTO N KENILWORTH ST FROM EAST BOUND 15TH STREET N 8) LEFT TURN INTO 15TH STREET N FROM SOUTH BOUND N KENILWORTH ST

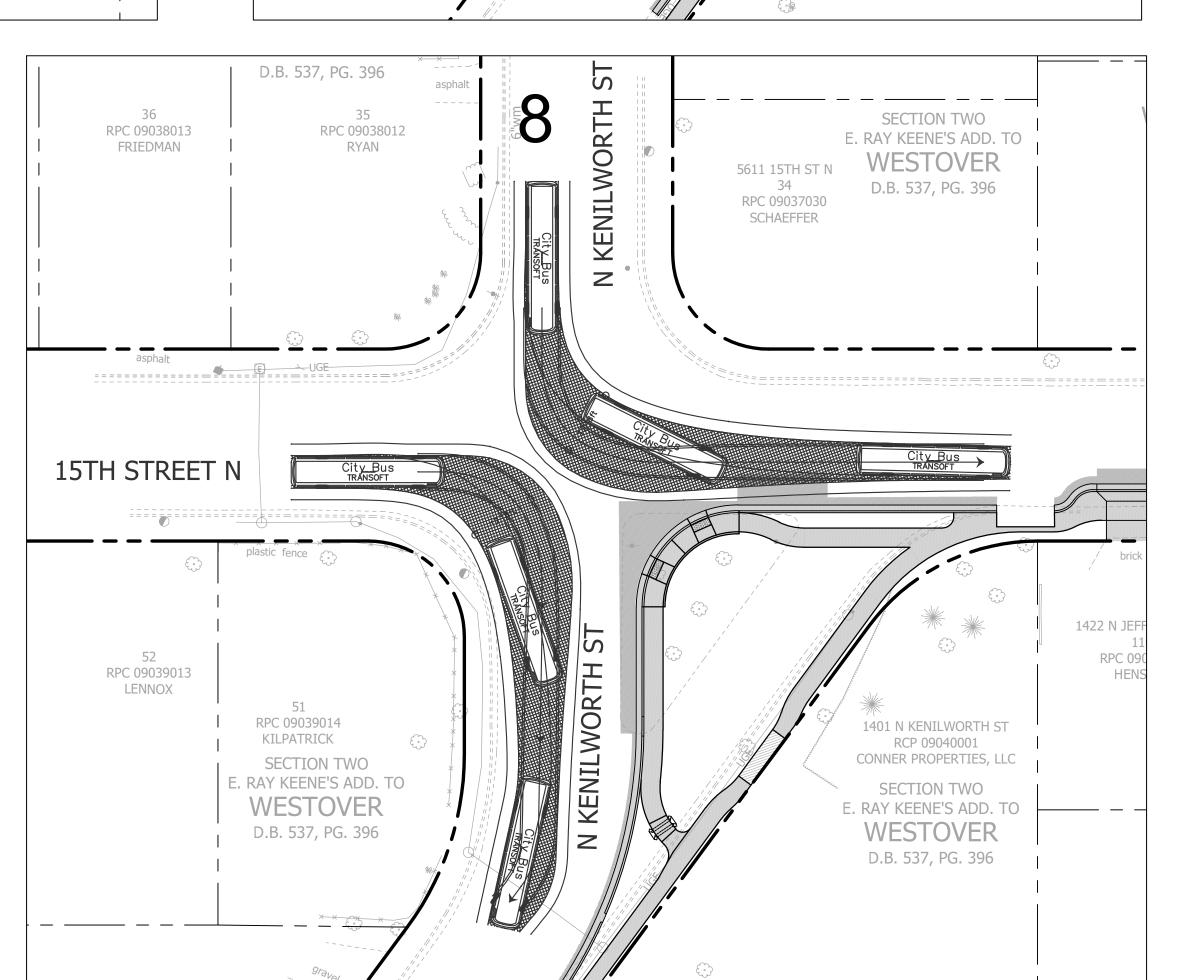
2) RIGHT TURN INTO 15TH STREET N FROM SOUTH BOUND N KENILWORTH ST

3) RIGHT TURN INTO 15TH STREET N FROM NORTH BOUND N KENILWORTH ST

TURNING MOVEMENTS OF THE CITY BUS WILL REQUIRE WAIVING RIGHT OF WAY TO OTHER VEHICLES:

• THE ROUTE AND INTERSECTION DOES NOT CURRENTLY HOST NOR PLANS TO HOST CITY BUS TRAVEL.

DESIGN CONSTRAINTS:



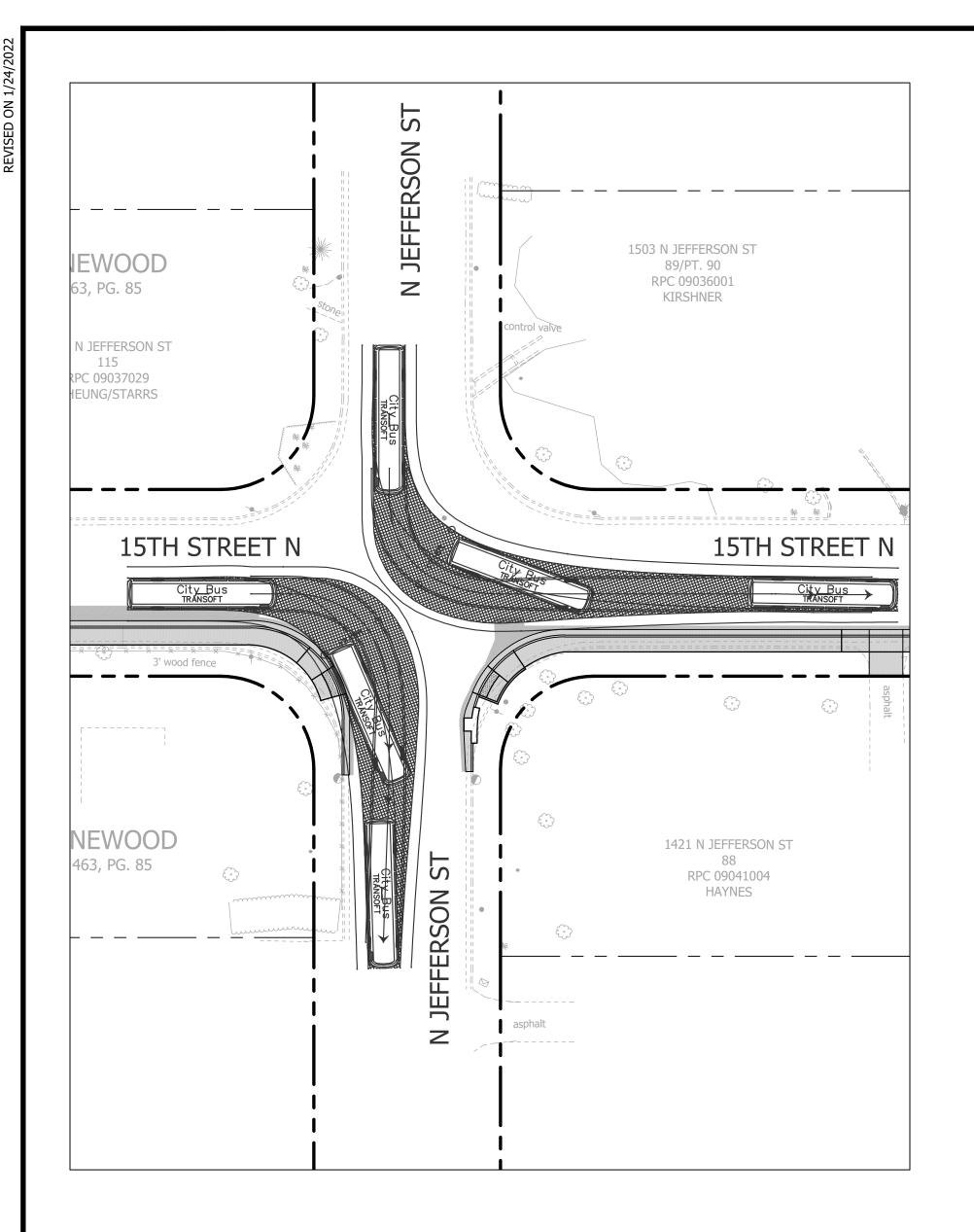
ARLINGTON VIRGINIA DEPARTMENT OF **ENVIRONMENTAL SERVICES** FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2100 CLARENDON BOULEVARD, SUITE 813 ARLINGTON, VA 22201 PHONE: 703.228.3629 FAX: 703.228.3606 COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED **APPROVALS** DATE 9/11/2023 QUALITY CONTROL ENGINEER CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF ENGINEERING BUREAU CHIEF PROJECT MANAGER **REVISIONS** MOVEMENT STRI Z313 **-URNING**

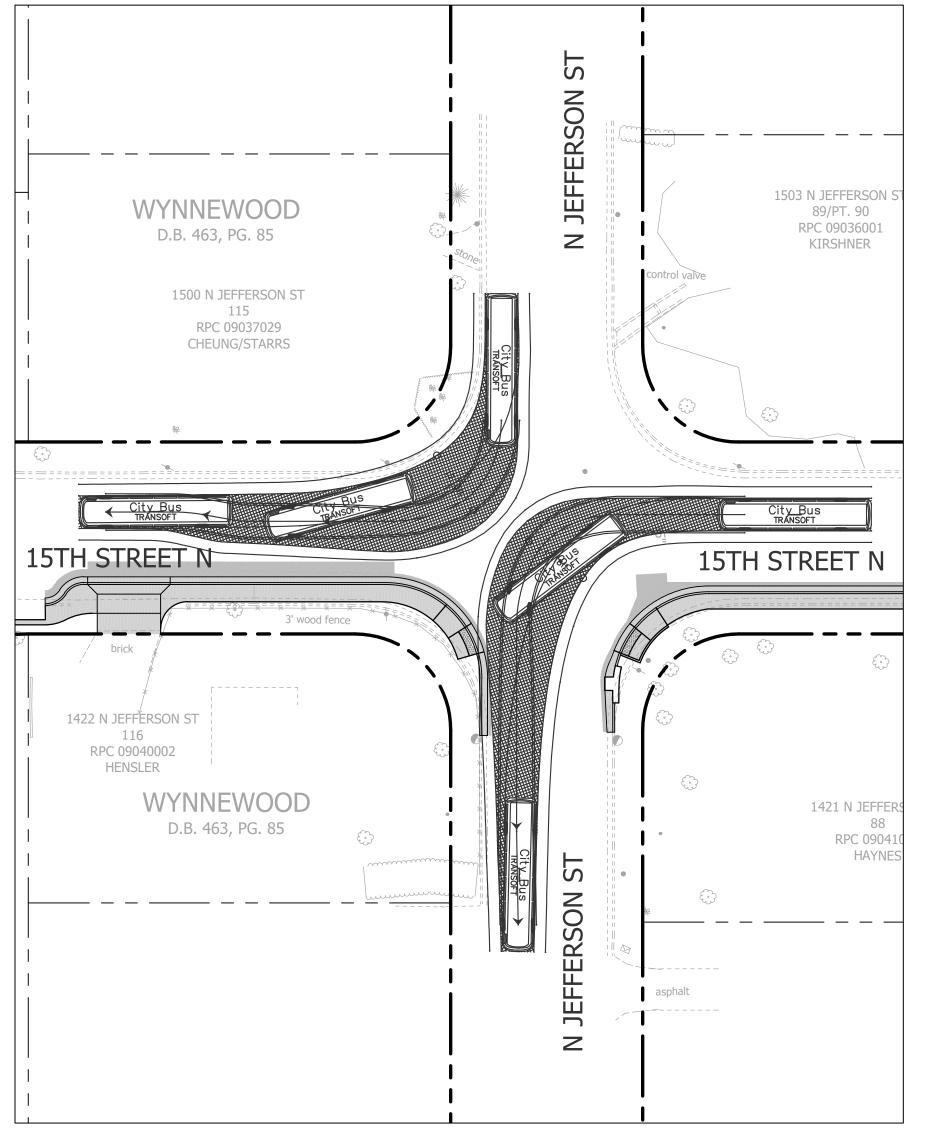
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DESIGNED: L MEDINA

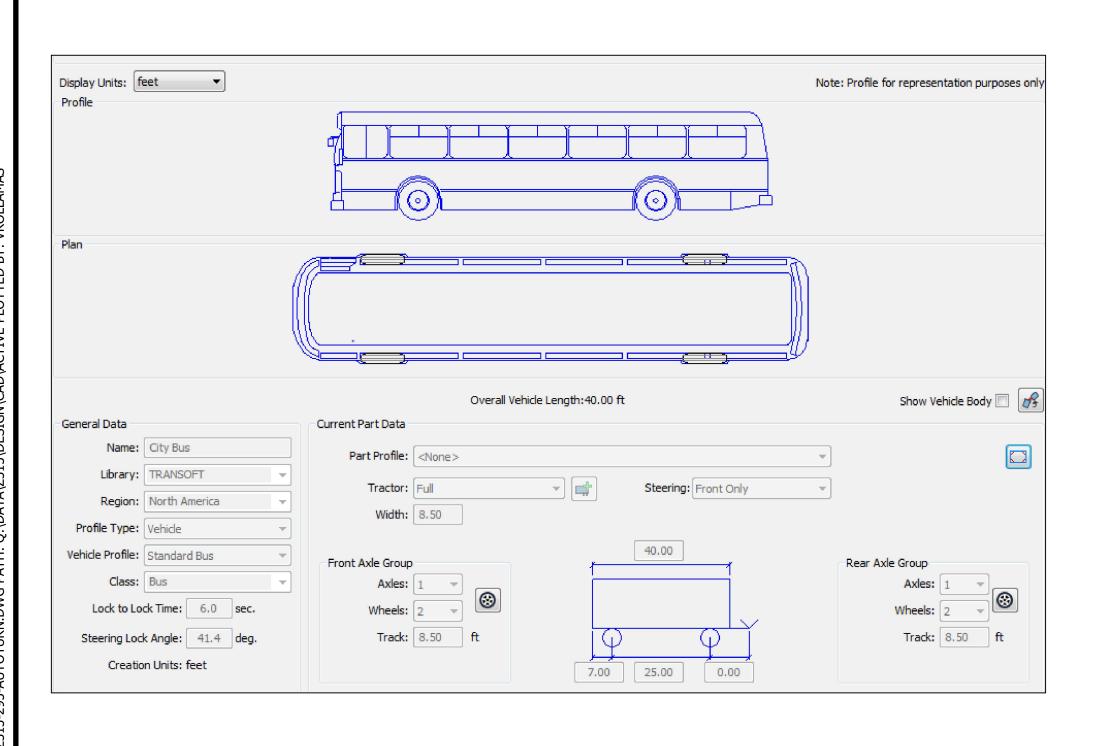
DRAWN: L MEDINA

CHECKED: G SQUARCIAFICO







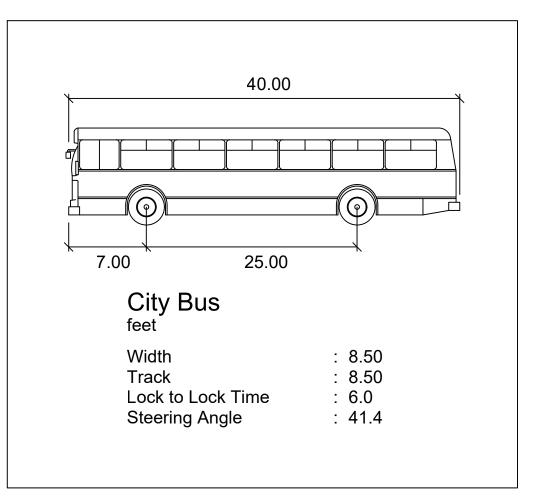


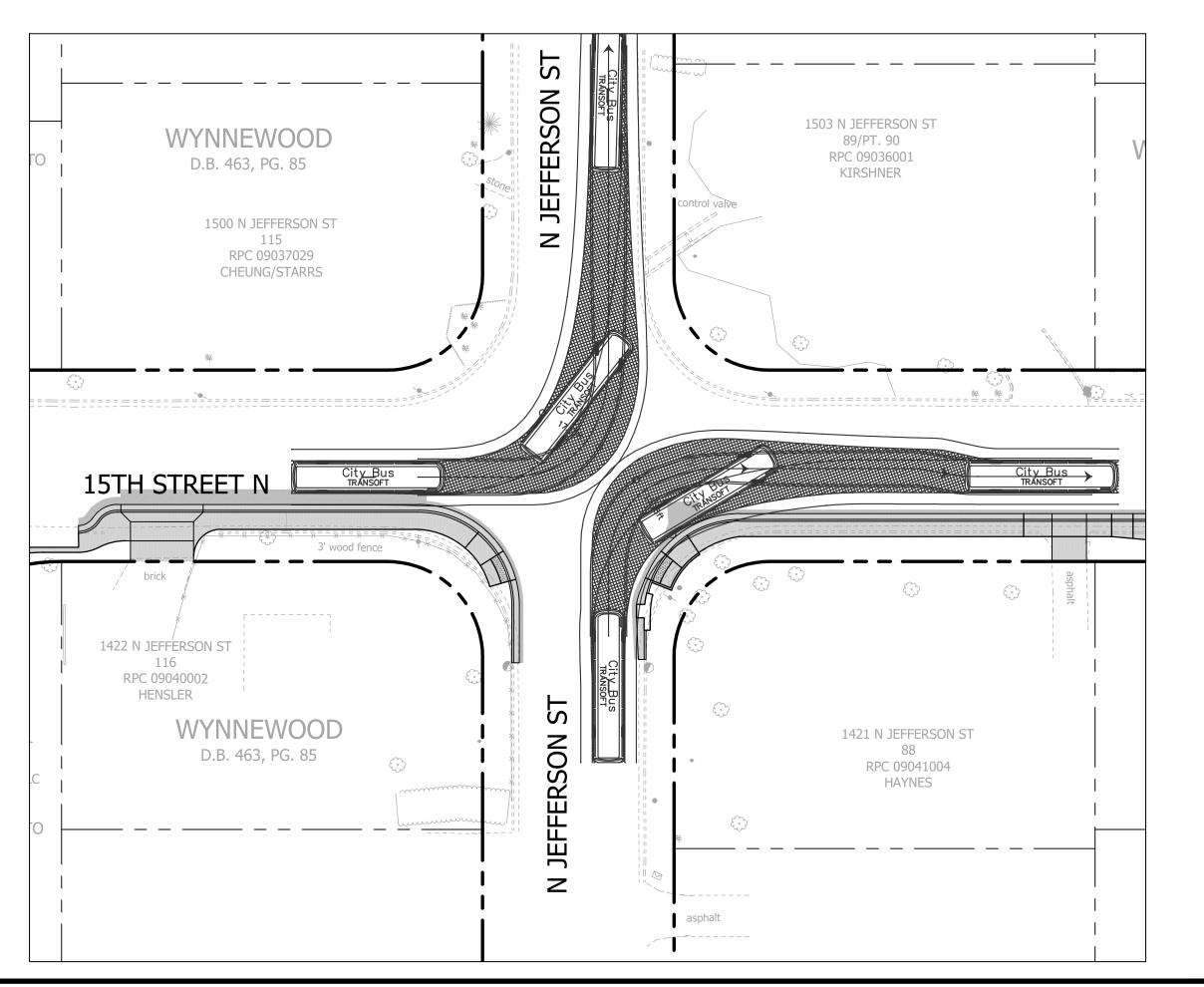


• THE DESIGN VEHICLE USED FOR TURNING SIMULATION FOR PROPOSED DESIGN IS AN AASHTO CITY BUS. THE TURNING MOVEMENTS DEPICTED SHOW THAT A CITY BUS CAN PERFORM THE TURNING MOVEMENTS INTO AND OUT OF 15TH STREET N AND N JEFFERSON ST. HOWEVER, THE FOLLOWING TURNING MOVEMENTS OF THE CITY BUS WILL REQUIRE WAIVING RIGHT OF WAY TO OTHER VEHICLES:

1) RIGHT TURN INTO N JEFFERSON ST FROM EAST BOUND 15TH STREET N 2) LEFT TURN INTO 15TH STREET N ST FROM SOUTH BOUND N JEFFERSON ST 3) RIGHT TURN INTO 15TH STREET N FROM SOUTH BOUND N JEFFERSON ST 4) LEFT TURN INTO N JEFFERSON ST FROM WEST BOUND 15TH STREET N 5) LEFT TURN INTO 15TH STREET N FROM NORTH BOUND N JEFFERSON ST 6) RIGHT TURN INTO N JEFFERSON ST FROM WEST BOUND 15TH STREET N 7) LEFT TURN INTO N JEFFERSON ST FROM EAST BOUND 15TH STREET N 8) RIGHT TURN INTO 15TH STREET N FROM NORTH BOUND N JEFFERSON ST

• THE ROUTE AND INTERSECTION DOES NOT CURRENTLY HOST NOR PLANS TO HOST CITY BUS TRAVEL.





ARLINGTON VIRGINIA

DEPARTMENT OF **ENVIRONMENTAL SERVICES** FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU

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APPROVALS DATE

9/11/2023 QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF PROJECT MANAGER

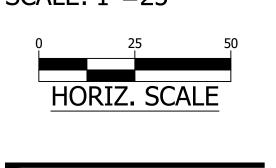
REVISIONS DATE

MOVEMENT **URNING**

DESIGNED: L MEDINA DRAWN: L MEDINA CHECKED: G SQUARCIAFICO

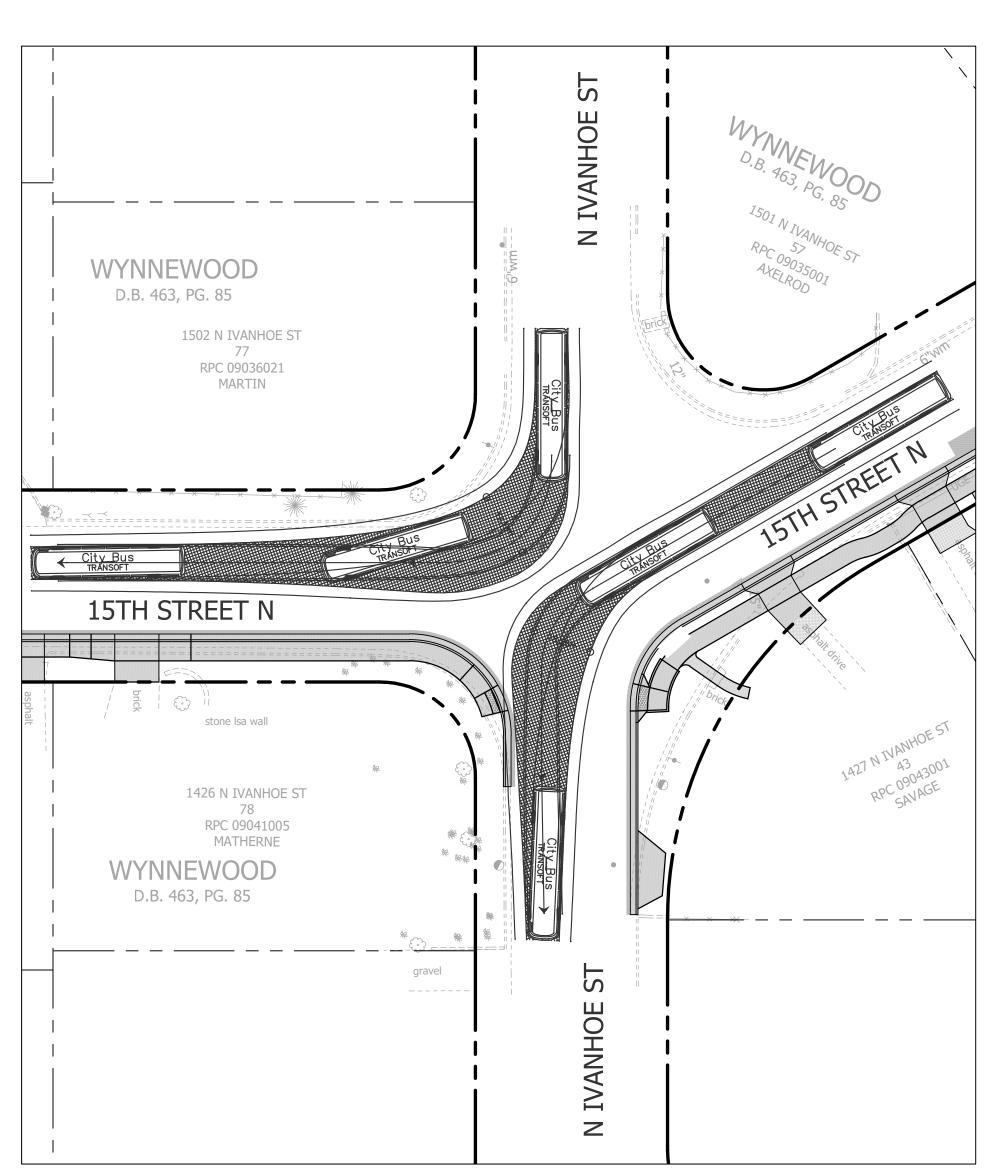
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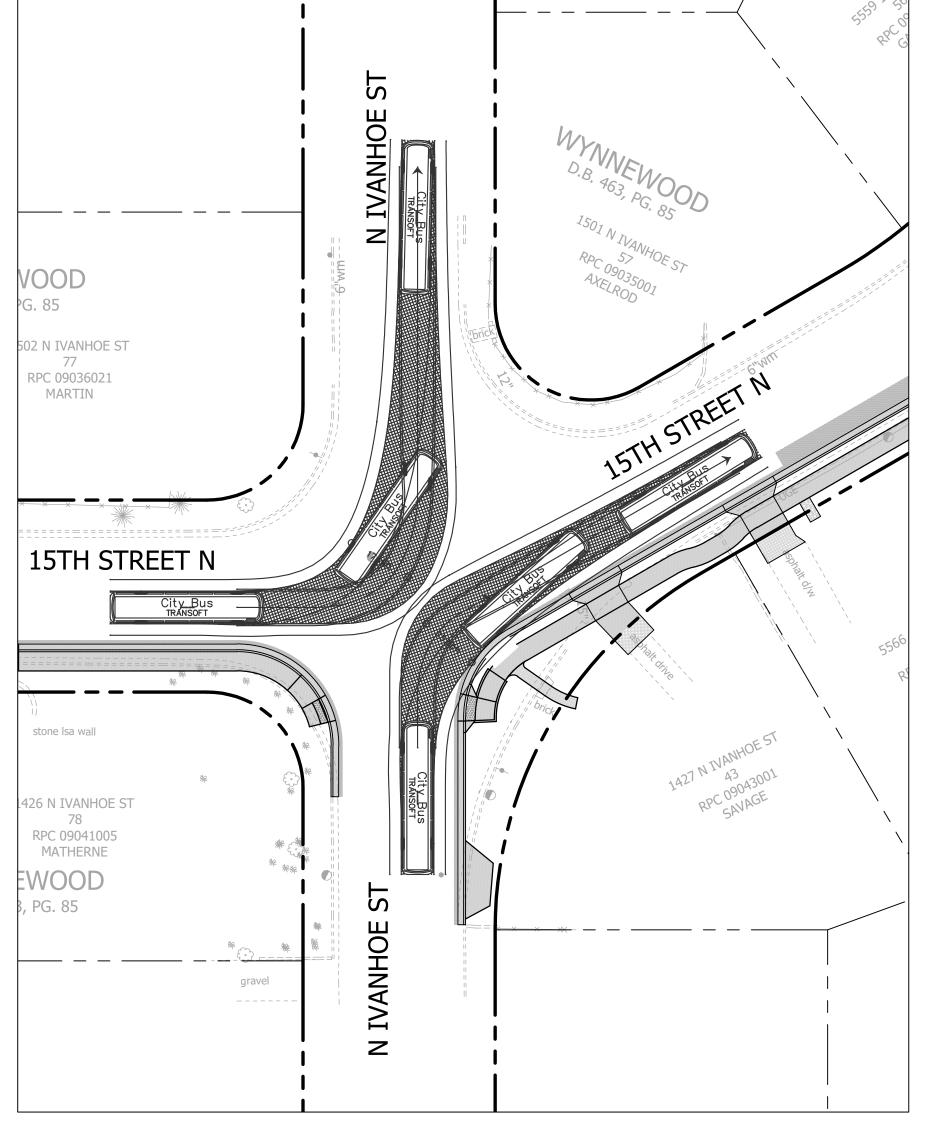
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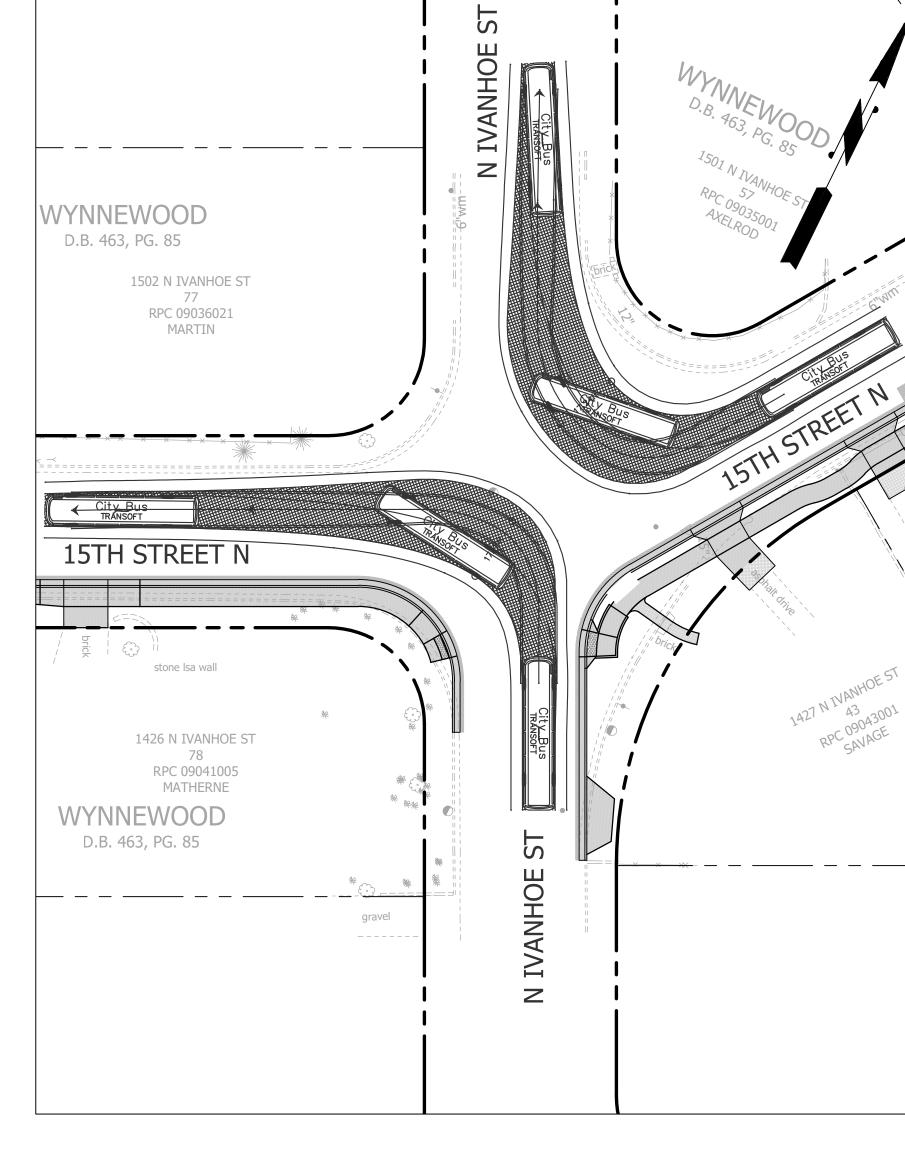


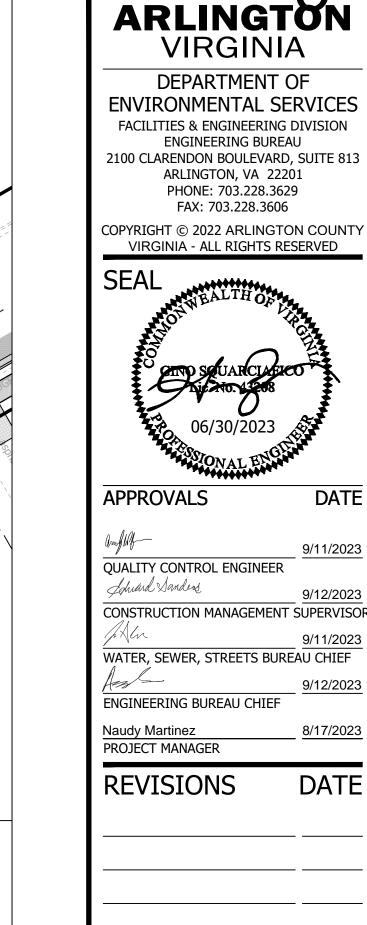
15TH STREET N Z313

C200.2









DATE

Note: Profile for representation purposes only Display Units: | feet ▼ Show Vehicle Body 🔲 🥳 Overall Vehide Length: 40.00 ft Current Part Data General Data Name: City Bus Part Profile: <None> Library: TRANSOFT Tractor: Full Steering: Front Only Region: North America Width: 8.50 Profile Type: Vehicle

7.00 25.00

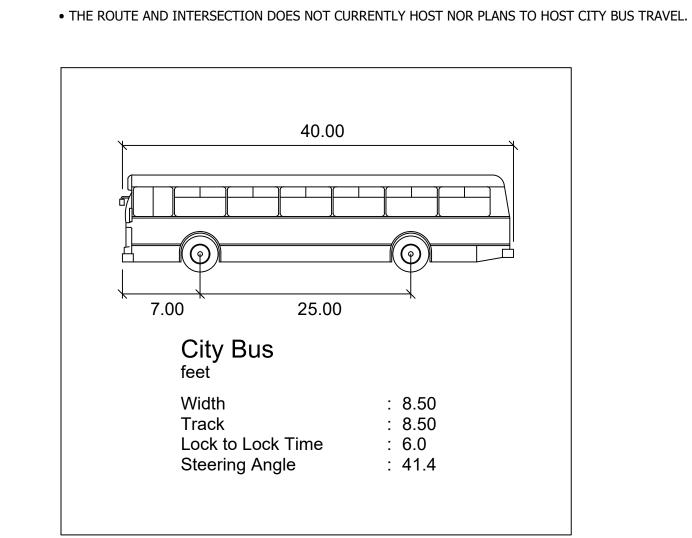
0.00

Rear Axle Group

Track: 8.50 ft

Front Axle Group

Track: 8.50 ft



1) RIGHT TURN INTO 15TH STREET N FROM SOUTH BOUND N IVANHOE ST

4) RIGHT TURN INTO 15TH STREET N FROM NORTH BOUND N IVANHOE ST

5) LEFT TURN INTO 15TH STREET N FROM NORTH BOUND N IVANHOE ST

6) RIGHT TURN INTO N IVANHOE ST FROM WEST BOUND 15TH STREET N

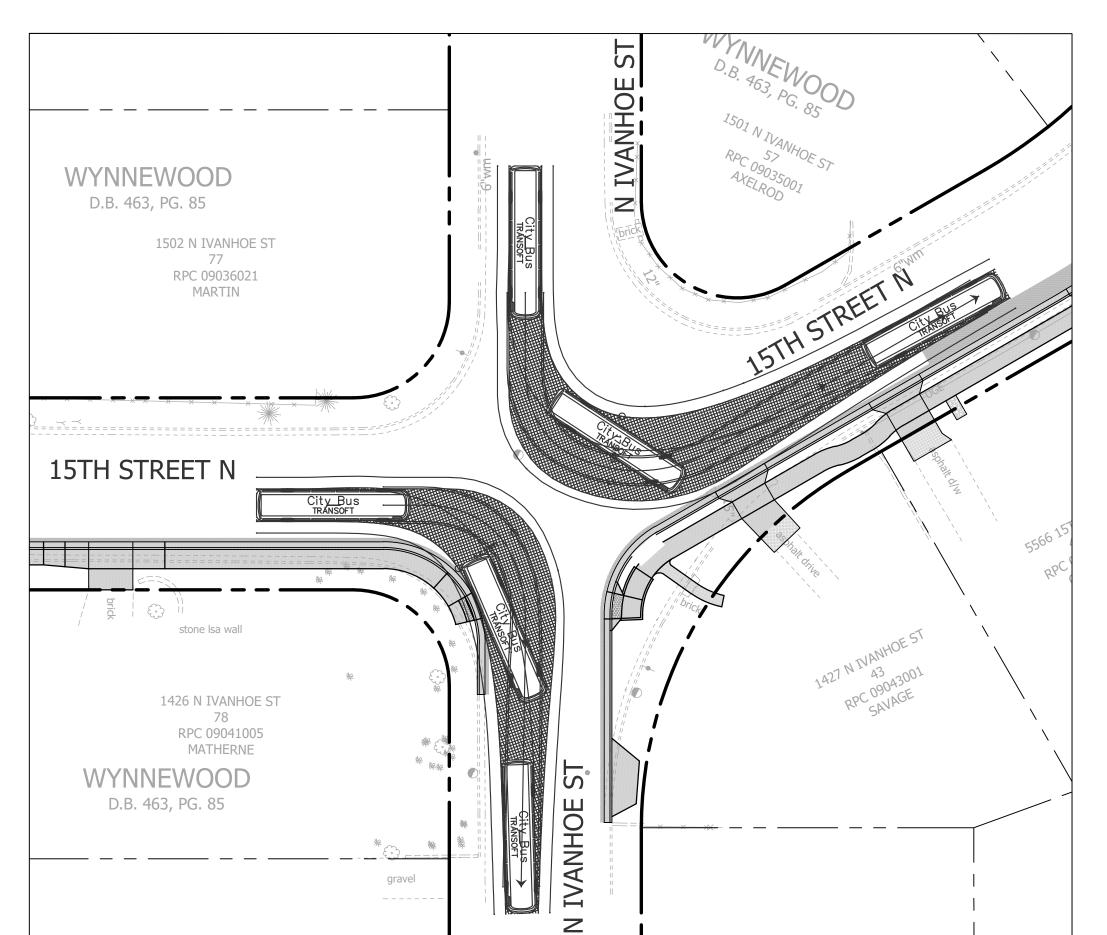
7) RIGHT TURN INTO N IVANHOE ST FROM EAST BOUND 15TH STREET N

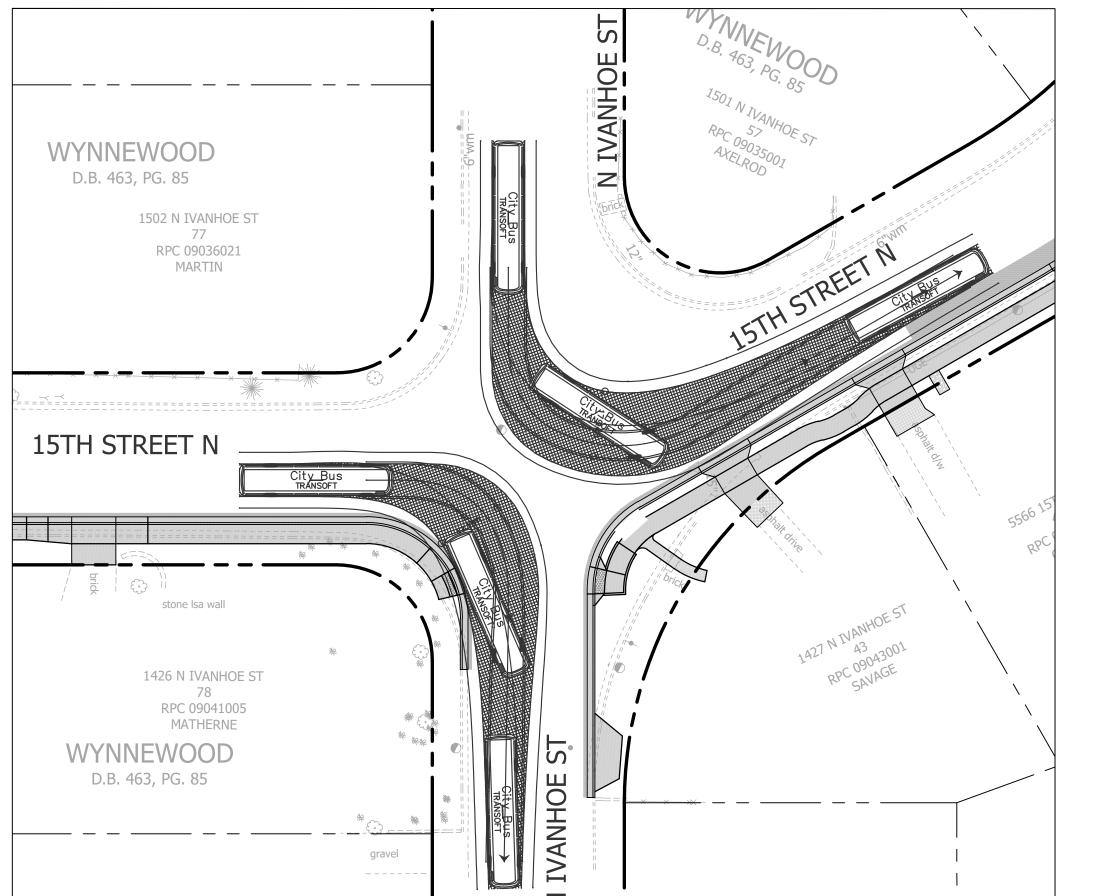
8) RIGHT TURN INTO N IVANHOE ST FROM WEST BOUND 15TH STREET N

2) LEFT TURN INTO N IVANHOE ST FROM WEST BOUND 15TH STREET N 3) LEFT TURN INTO N IVANHOE ST FROM EAST BOUND 15TH STREET N

• THE DESIGN VEHICLE USED FOR TURNING SIMULATION FOR PROPOSED DESIGN IS AN AASHTO CITY BUS. THE TURNING MOVEMENTS DEPICTED SHOW THAT A CITY BUS CAN PERFORM THE TURNING MOVEMENTS INTO AND OUT OF 15TH STREET N AND N IVANHOE ST. HOWEVER, THE FOLLOWING TURNING MOVEMENTS OF THE CITY BUS WILL REQUIRE WAIVING RIGHT OF WAY TO OTHER VEHICLES:

DESIGN CONSTRAINTS:





Vehide Profile: Standard Bus

Lock to Lock Time: 6.0 sec.

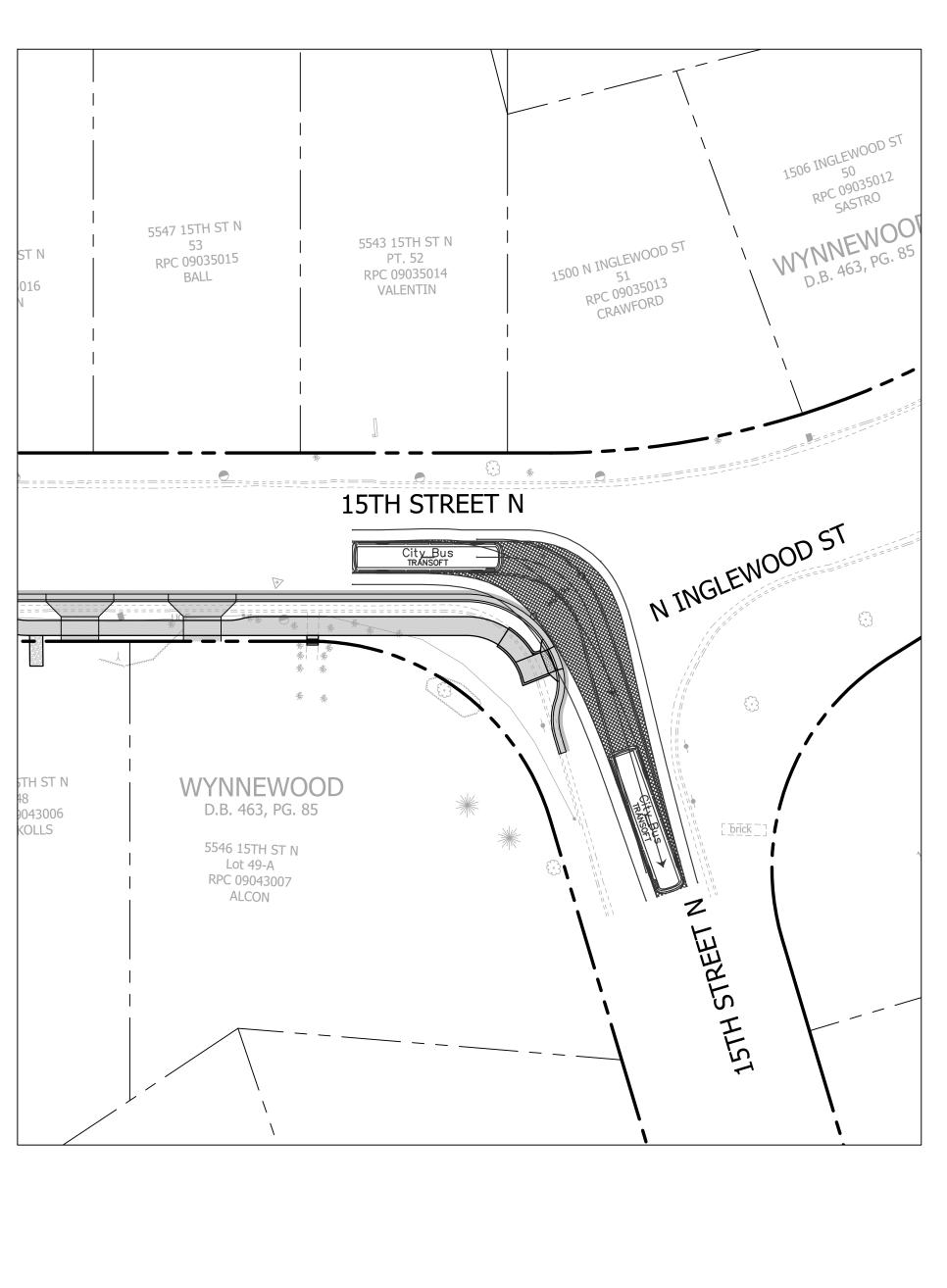
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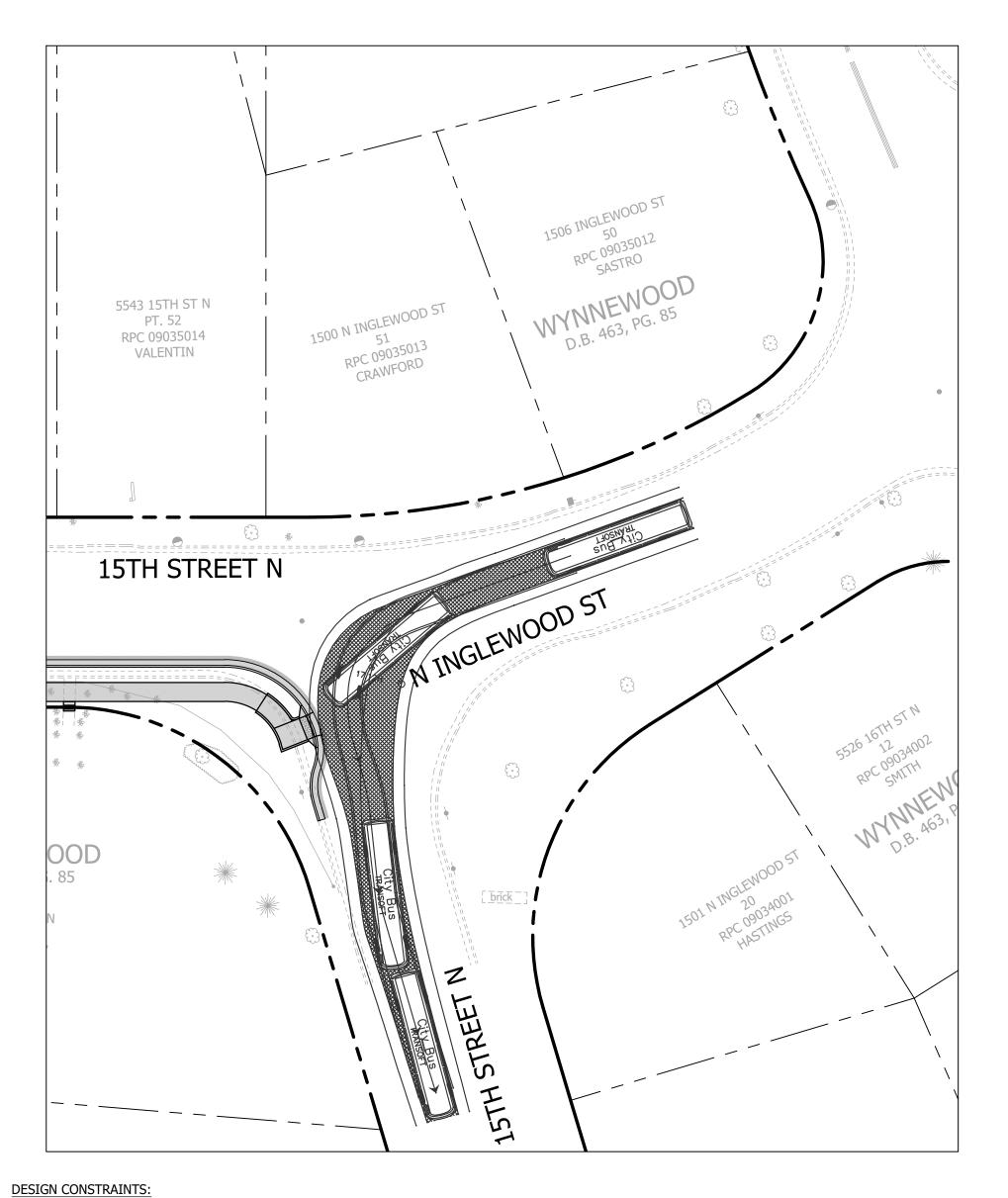
Creation Units: feet

MOVEMEN

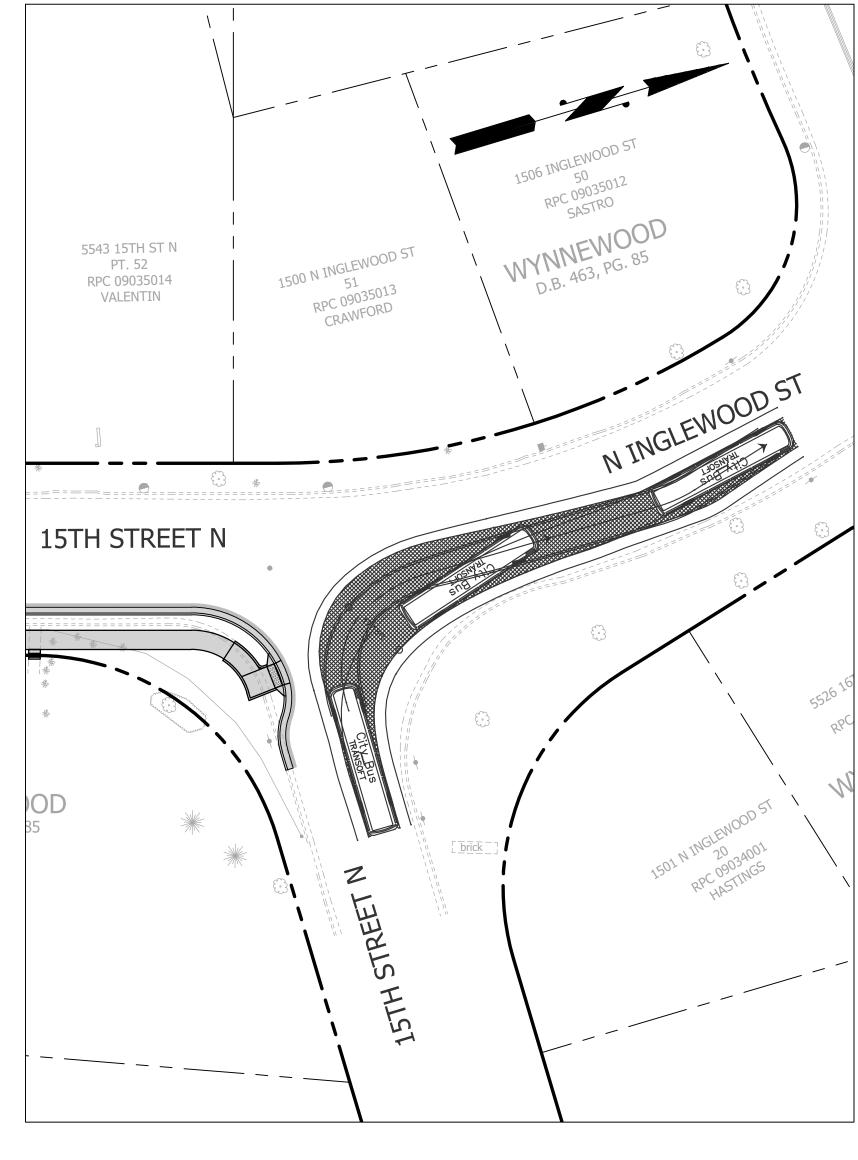
URNING

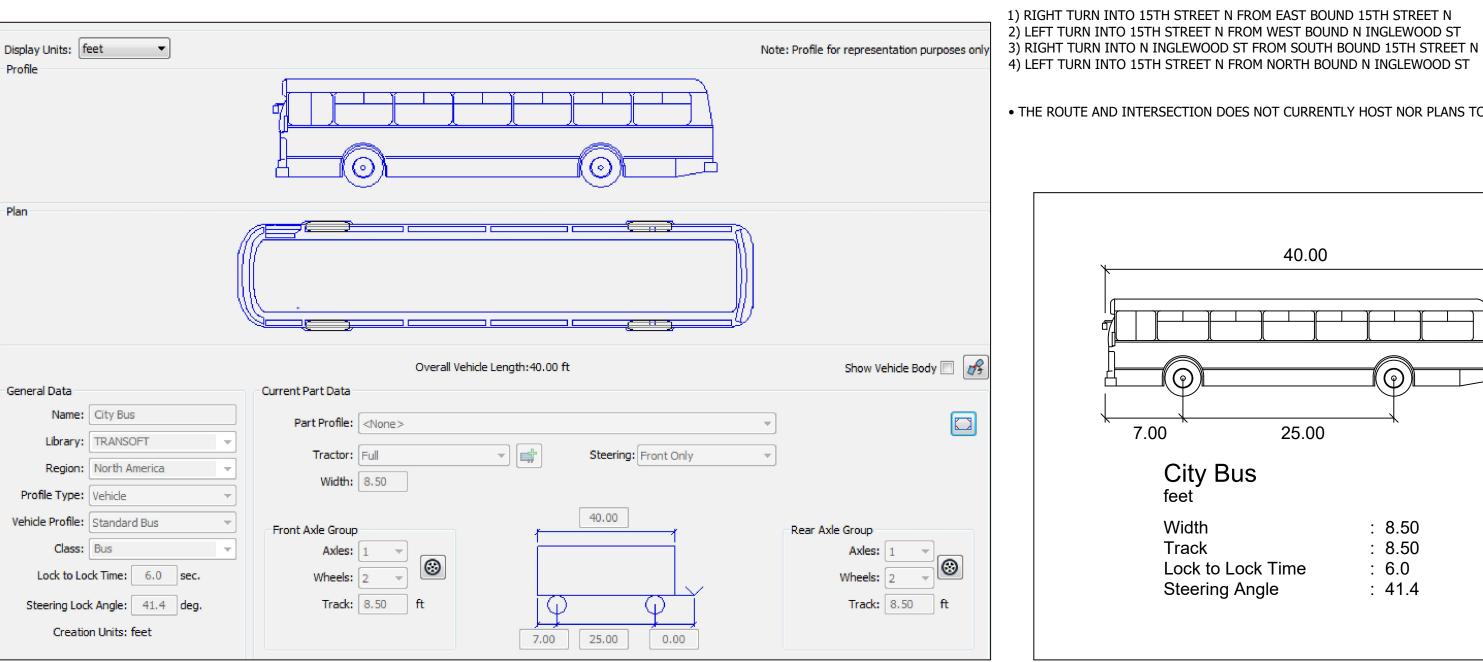
C200.3

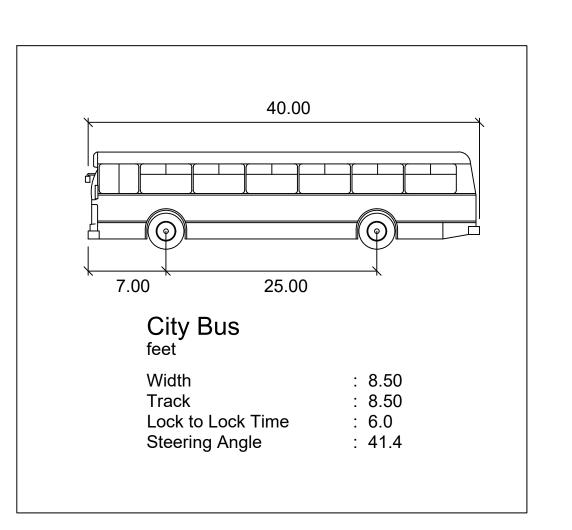




GASSAN

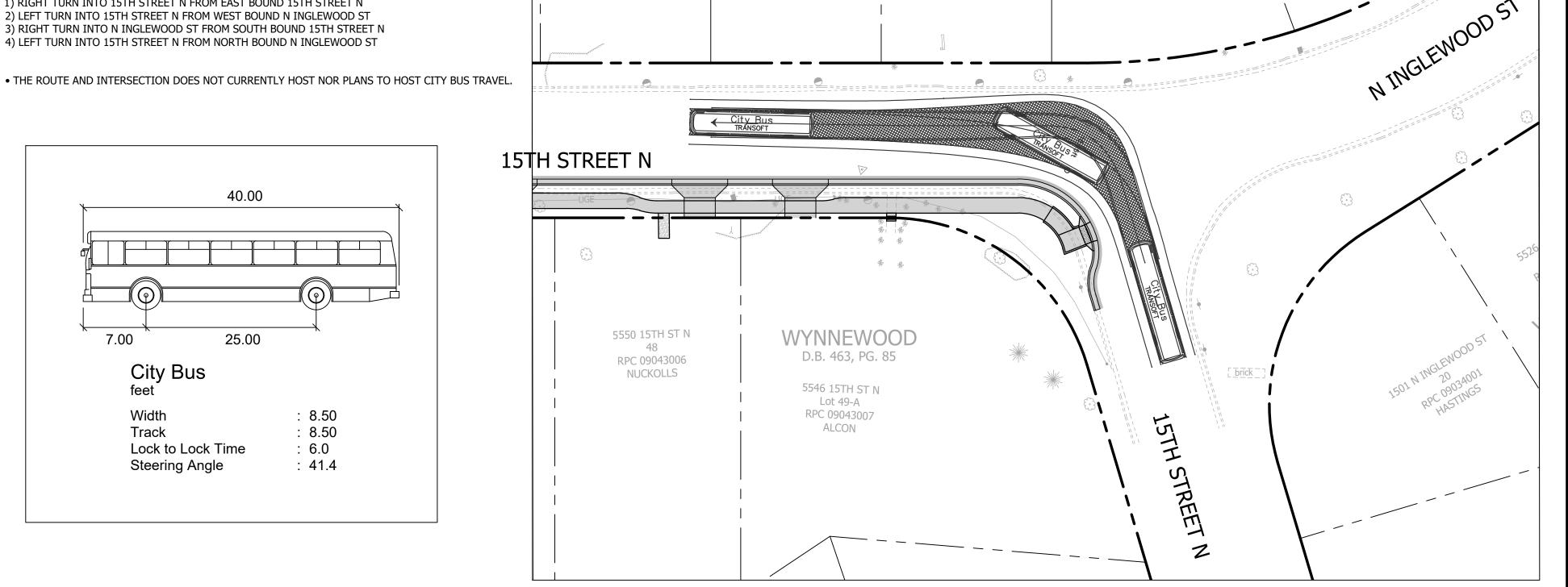






• THE DESIGN VEHICLE USED FOR TURNING SIMULATION FOR PROPOSED DESIGN IS AN AASHTO CITY

BUS. THE TURNING MOVEMENTS DEPICTED SHOW THAT A CITY BUS CAN PERFORM THE TURNING MOVEMENTS INTO AND OUT OF 15TH STREET N AND N INGLEWOOD ST. HOWEVER, THE FOLLOWING TURNING MOVEMENTS OF THE CITY BUS WILL REQUIRE WAIVING RIGHT OF WAY TO OTHER VEHICLES:



VALENTIN

ARLINGTON VIRGINIA

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

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APPROVALS

9/11/2023 QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS

MOVEMEN

URNING

DESIGNED: L MEDINA DRAWN: L MEDINA

CHECKED: G SQUARCIAFICO PLOTTED: AUGUST 31 2023

SCALE: 1"=25'

HORIZ. SCALE

C200.4