

# CITY OF FAIRFAX VIRGINIA

## HALLMAN STREET SW SIDEWALK DESIGN 100% SUBMISSION

JUNE 2021

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VICINITY MAP  
HALLMAN ST. SW  
NEAR: 4025 HALLMAN ST.  
FAIRFAX, VA 22030

1"=100'

**OWNER/DEVELOPER:**

TRANSPORTATION DIVISION, PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VA 22030

**ENGINEER:**

A. MORTON THOMAS & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
800 KING FARM BOULEVARD, 4TH FLOOR  
ROCKVILLE, MD 20850

TOTAL DISTURBED AREA: 0.1704 ACRES

City of Fairfax  
APPROVED SITE PLAN

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

Review approval by:

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

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

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

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

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

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

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

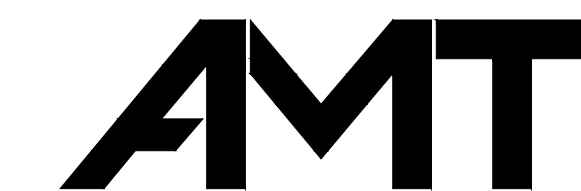
\_\_\_\_\_ BAR Liaison

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

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

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

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



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EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS



*J.A. Goode, II*  
6/2/2021



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION

PROJECT NO:	17-0226.008
SCALE:	1"=100'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE

COVER SHEET

GI-1

CITY OF FAIRFAX  
NOTES TO BE INCLUDED ON THE SITE PLAN

**PERMITS**

1. A STREET OPENING PERMIT IS REQUIRED FOR ANY WORK IN A CITY RIGHT-OF-WAY OR EASEMENT. THE PERMIT CAN BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT. FOR INFORMATION, CALL 703-385-7980 OR 703- 385-7810.
2. ALL SIDEWALKS, CURBS, GUTTERS, DRIVEWAYS, STREETS, STORM PIPES, SANITARY SEWER, ENDWALLS AND RIP- RAPS MUST BE INSPECTED BY THE CITY. ALL WORK IN THE CITY STREETS WILL BE PERFORMED MONDAY- FRIDAY BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. NO WORK IS TO BE PERFORMED ON WEEKENDS OR HOLIDAYS UNLESS PRE-APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
3. INSPECTIONS PERFORMED BY THE FACILITIES INSPECTOR WILL REQUIRE A FOUR-HOUR NOTICE PRIOR TO INSPECTIONS.

**GENERAL STANDARDS**

1. THE PUBLIC WORKS DIRECTOR MUST BE NOTIFIED ONE WEEK PRIOR TO PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITY AND ONE WEEK PRIOR TO FINAL INSPECTION. THE SITE PLAN COORDINATOR IN ZONING (703-385-7820) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.
2. A PRECONSTRUCTION MEETING WILL BE REQUIRED THREE DAYS PRIOR TO ANY CONSTRUCTION. CONTRACTORS WILL NOTIFY THE PUBLIC WORKS DEPARTMENT OR FACILITIES INSPECTOR FOR ALL WORK DONE ON SITE AND OFF SITE ONE DAY PRIOR TO STARTING.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR PARKING CONSTRUCTION EQUIPMENT AND PROVIDE EMPLOYEE PARKING ON SITE.
4. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF FAIRFAX STANDARDS, VIRGINIA DEPARTMENT OF TRANSPORTATION AND THE VIRGINIA SEDIMENT & EROSION CONTROL CURRENT SPECIFICATIONS, EXCEPT AS SHOWN OR ALTERED BY THESE PLANS.
5. TRAFFIC SIGNS FOUND TO BE IN THE WAY AT CONSTRUCTION SITES SHALL BE REMOVED OR RELOCATED ONLY BY PERSONNEL IN THE SIGN & SIGNAL CREW OF THE PUBLIC WORKS DEPARTMENT AT THE CONTRACTOR'S REQUEST. ANY CONTRACTOR FOUND RESPONSIBLE FOR MOVING CITY PROPERTY WITHOUT PERMISSION WILL RECEIVE A SUMMONS.
6. ALL BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE. PERMITS AND INSPECTIONS FOR BUILDING, ELECTRICAL, PLUMBING, MECHANICAL AND FIRE PROTECTION WORK ARE OBTAINED FROM THE OFFICE OF CODE ADMINISTRATION, 703-385-7830.
7. PRIVATE FIRE MAINS REQUIRE A PERMIT FROM THE OFFICE OF CODE ADMINISTRATION. PERMIT APPLICATION MUST INCLUDE DETAILS OF INSTALLATION AS SPECIFIED IN NFPA-24. AN APPROVED SITE PLAN IS NOT A PERMIT TO INSTALL FIRE MAINS.
8. AN AS-BUILT PLAN MUST BE SUBMITTED WITHIN 30 DAYS AFTER COMPLETION OF ALL CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROVIDED AS-BUILT PLAN
9. TEMPORARY STRUCTURES, CONSTRUCTION TRAILERS AND DEMOLITION REQUIRE PERMITS FROM THE OFFICE OF CODE ADMINISTRATION PRIOR TO START OF WORK OR INSTALLATION.
10. ADEQUATE EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. A HARD SURFACED, ALL- WEATHER ROADWAY SHALL BE PROVIDED TO WITHIN 50 FEET OF ALL STRUCTURES AND ANY LOCATION WHERE COMBUSTIBLE MATERIALS ARE STORED.
11. CITY ORDINANCE PERMITS CONSTRUCTION NOISE, INCLUDING EXCAVATION, BETWEEN THE HOURS OF 7:00 AM AND 6:00 PM ON WEEKDAYS AND 8:30 AM AND 5:00 PM ON SATURDAYS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO ENSURE THAT ALL CONTRACTORS AND SUBCONTRACTORS COMPLY WITH THIS ORDINANCE.
12. THE DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH CITY CODE SECTIONS LIMITING GROWTH OF GRASS AND WEEDS TO SIX INCHES IN HEIGHT.

**CONSTRUCTION**

1. ALL SUBGRADE AND SUB-BASE MATERIAL SHALL BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.O. T-99 METHOD A WITHIN PLUS OR MINUS 20% OF OPTIMUM MOISTURE FOR THE FULL WIDTH OF ANY DEDICATED RIGHT-OF-WAY AND ALL TOWNHOUSE, APARTMENT, CONDOMINIUM, COMMERCIAL AND INDUSTRIAL PARKING LOTS (INCLUDING STORM SEWER AND SANITARY SEWER).
2. COMPACTION TEST SHALL BE PERFORMED BY THE CONTRACTOR. SUBGRADE FOR CURB, GUTTER AND SIDEWALK SHALL BE EVERY 50 FEET; SUB-BASE WILL BE ALTERNATED EVERY 25 FEET. DRIVEWAYS REQUIRE TWO TESTS ON SUBGRADE AND SUB-BASE. COPY OF RESULTS IS REQUIRED PRIOR TO PLACING ANY TYPE OF MATERIAL. VTM-1 CORRECTION ALSO MUST BE USED. ALL STRUCTURES REQUIRE TWO TESTS ON SUBGRADE AND SUB-BASE.
3. COMPACTION TESTS FOR ROADWAYS SHALL BE PERFORMED BY THE CITY ONLY, UNLESS APPROVED BY THE PUBLIC WORKS DIRECTOR. COMPACTION TESTS FOR ALL BUILDING PADS MUST BE SUBMITTED TO THE OFFICE OF CODE ADMINISTRATION FOR REVIEW AND APPROVAL.
4. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE INSTALLED TO THE REQUIRED DISTANCE BEYOND THE RIGHT-OF-WAY.
5. STORM SEWER AND CULVERT PIPE SHALL BE REINFORCED CONCRETE PIPE TO CONFORM TO THE CURRENT

A.A.S.H.T.O. DESIGNATION M170, UNLESS OTHERWISE DESIGNATED ON THE PLANS. CLASS II PIPE IS PERMITTED BEYOND THE LIMITS OF STREET RIGHTS-OF-WAY. CLASS III PIPE IS REQUIRED WITHIN THE LIMITS OF THE RIGHTS-OF WAY.

6. ALL CURB AND GUTTER SHOWN ON PLANS AND NOT IN PROFILES SHALL BE ON STRAIGHT TANGENT GRADES. THE CONTRACTOR SHALL ROUND ALL VERTICAL BREAKS WITH SMOOTH SPLINE CURBS.
7. ALL PAVEMENT PLACED ON CITY RIGHT-OF-WAY SHALL HAVE A MIX DESIGN APPROVED PRIOR TO PLACING MATERIAL AND A DENSITY TEST PERFORMED DURING PLACEMENT.
8. STREET SIGNS AND MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR AT ALL STREET INTERSECTIONS IN A LOCATION TO BE DETERMINED BY THE DIRECTOR OF PUBLIC WORKS. PRIVATE ACCESS WAYS AND ALLEYS SHALL BE CLEARLY DESIGNATED AS SUCH BY A SIGN AT EVERY ENTRANCE FROM A PUBLIC STREET, STATING "PRIVATE STREET, PRIVATELY OWNED AND PRIVATELY MAINTAINED". ALL STREET MARKINGS AND SIGNAGE WILL CONFORM TO CITY OF FAIRFAX STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL, PER THE STREET SUPERINTENDENT.
9. C.B.R. TEST IS REQUIRED FOR ACTUAL DETERMINATION OF REQUIRED SUB-BASE THICKNESS PRIOR TO CONSTRUCTION. DEPTH OF SUB-BASE IS BASED ON SUBGRADE C.B.R. VALUE OF 10. WHERE C.B.R. VALUE IS LESS THAN 10, ONE-INCH OF SUB-BASE OR BASE MATERIAL SHALL BE ADDED FOR EACH POINT BELOW 10 FOR ON-SITE AND OFF-SITE AND SHALL BE REVIEWED BY THE CITY OF FAIRFAX FOR SPECIAL DESIGN.
10. ALL CONSTRUCTION MUST COMPLY TO THE CODE OF VIRGINIA 36-98 AND 36-99 BY REFERENCE AS PART OF THE UNIFORM STATEWIDE BUILDING CODE OF VIRGINIA, THE FINAL FAIR HOUSING ACCESSIBILITY GUIDELINES (24 CFR CHAPTER I) AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (28 CFR, PART 36) AS PER SITE AND RIGHT-OF-WAY WORK COMPLIANCE.
11. ALL ROOFS, PAVED AREAS, YARDS, COURTS AND COURTYARDS SHALL BE DRAINED INTO A SEPARATE STORM SEWER OR A COMBINED SEWER SYSTEM.

**ENVIRONMENTAL**

1. ALL EROSION AND SEDIMENT CONTROL TO BE INSTALLED PRIOR TO STARTING PROJECT TO CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL MANUAL.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING THE CITY OF FAIRFAX RIGHTS-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND ALLAY DUST AND TO TAKE WHATEVER MEASURES NECESSARY TO ENSURE THAT THE ROAD IS MAINTAINED IN A CLEAN AND DUST-FREE CONDITION AT ALL TIMES.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN SUCH A MANNER TO PREVENT THE WASHING OF ANY TOPSOIL, SILT, OR DEBRIS ONTO ADJACENT PROPERTIES.
4. IF THE PRESENCE OF ASBESTOS IS SUSPECTED IN THE SOIL, THE CONTRACTOR MUST CONTACT THE AIR POLLUTION CONTROL DIVISION OF THE FAIRFAX COUNTY HEALTH DEPARTMENT AT 703-246-2300.
5. ONSITE STORAGE OF FUEL SHALL BE LIMITED TO DIESEL FUEL TANKS NOT OVER 660 GALLONS CAPACITY. TANKS SHALL BE OF A LISTED TYPE AND SHALL BE PROVIDED WITH APPROVED SECONDARY CONTAINMENT, IMPACT PROTECTION AND PLACARDING. A MINIMUM 2A-40BC FIRE EXTINGUISHER SHALL BE PROVIDED IN THE VICINITY OF THE REFUELING AREA. A PERMIT FOR COMBUSTIBLE LIQUID STORAGE SHALL BE OBTAINED FROM THE OFFICE OF CODE ADMINISTRATION, 703-385-7830. FUEL SHALL NOT BE PLACED IN ONSITE STORAGE TANKS UNTIL THE INSTALLATION HAS BEEN INSPECTED AND APPROVED.
6. ONSITE REPAIR OF VEHICLES AND EQUIPMENT SHALL BE LIMITED TO REPLACEMENT OF DAMAGED BELTS, HOSES AND TIRES. ANY SPILL OF FUEL, OIL, HYDRAULIC FLUID OR ANTI-FREEZE GREATER THAN ONE GALLON MUST BE REPORTED TO THE OFFICE OF CODE ADMINISTRATION AT 703-385-7830. ALL SPILLS MUST BE CLEANED UP PROMPTLY AND IN AN APPROVED MANNER.
7. THE OWNER SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH CITY CODE SECTIONS REGARDING HEALTH AND SAFETY MENAGES, INCLUDING ACCUMULATIONS OF WATER, STORAGE OF MATERIAL, CONSTRUCTION DEBRIS AND SECURITY OF THE SITE.
8. THE LINK TO THE ASBESTOS INFORMATION AND MAP ON THE FAIRFAX COUNTY WEBSITE [HTTP://WWW.FAIRFAXCOUNTY.GOV/HD/ASB/](http://www.fairfaxcounty.gov/hd/asb/)
9. PRIOR TO THE START OF ANY SITE GRADING WORK, THE DEVELOPER OR OWNER SHALL OBTAIN A VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT FROM THE CITY OF FAIRFAX. THE VSMP PERMIT REQUIRES THAT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
10. THE BMP SHALL BE INSPECTED BY THE CITY DURING INSTALLATION AND THROUGHOUT THE DURATION OF CONSTRUCTION.

**LANDSCAPE**

1. THE AREA SURROUNDING ALL TREES, SHRUBS AND GROUND COVER SHALL BE TOPPED WITH TWO INCHES OF SHREDDED HARDWOOD BARK MULCH.
2. NO CHANGES SHALL BE PERMITTED TO THE PLANT LIST UNLESS APPROVED BY THE CITY OF FAIRFAX.
3. TREES SHALL BE CLASSIFIED AS PER "AMERICAN STANDARD FOR NURSERY STOCK" AS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL BELOW THIS STANDARD SHALL NOT BE CONSIDERED.
  - a) ALL PLANTS MUST CONFORM TO REQUIREMENTS PER PLANT LIST;
  - b) ALL PLANT MATERIALS MUST BE NURSERY GROWN STOCK;
  - c) ALL TREES MUST BE WELL BRANCHED, FULL CROWN.

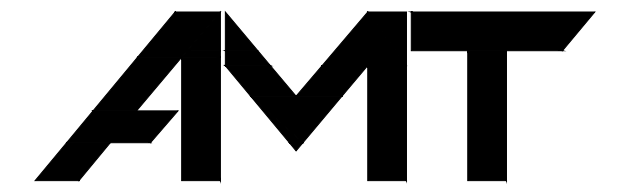
4. AT LEAST 5 DAYS BEFORE BEING PLANTED, THE SITE PLAN COORDINATOR SHALL BE NOTIFIED THAT PLANTS ARE AVAILABLE FOR INSPECTION.
5. NO PERSON SHALL REMOVE OR DESTROY ANY TREE WHICH IS FIVE (5) INCHES OR GREATER IN CALIPER, MEASURED SIX (6) INCHES ABOVE GROUND LEVEL, ON ANY LOT GREATER THAN ONE-HALF (1/2) ACRE WITHOUT FIRST OBTAINING A TREE REMOVAL PERMIT FROM THE ZONING ADMINISTRATOR. ANY TREE REMOVED, DAMAGED OR DESTROYED WILL BE REPLACED AT THE DISCRETION OF THE ZONING ADMINISTRATOR.

**MATERIAL STORAGE**

1. CONTRACTOR WILL BE PERMITTED TO STORE CONSTRUCTION MATERIAL IN THE DESIGNATED OPEN AREA ADJACENT TO 4015 HALLMAN STREET.
2. THE CONSTRUCTION MATERIALS SHALL BE PROTECTED WITH CONSTRUCTION FENCING. FURTHER DETAILS WILL BE ELABORATED ON DURING THE PRE-CONSTRUCTION MEETING.

**CONSTRUCTION VEHICLE ROUTE**

1. CONSTRUCTION VEHICLES SHALL ONLY BE PERMITTED TO ACCESS THE CONSTRUCTION SITE ALONG MAIN STREET (RT. 236) AND HALLMAN STREET.
2. ANY DEVIATION FROM THESE ROADWAYS SHALL BE APPROVED BY THE CITY IN ADVANCE.



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ROCKVILLE, MD 20850  
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EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS



*Handwritten signature and date*



**HALLMAN ST. SW  
SIDEWALK DESIGN**  
FAIRFAX, VA 22030

**TRANSPORTATION DIVISION,  
PUBLIC WORKS**

CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630


MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
SCALE:	N/A
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE

GENERAL NOTES

GI-2

SHEET      02    OF    25



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10455 ARMSTRONG STREET  
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- NOTES:**
- HORIZONTAL DATUM: VIRGINIA STATE PLANE (NAD 83)
  - VERTICAL DATUM: NGVD 29
  - CONTOUR INTERVAL IS ONE (1) FOOT.
  - THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF SUSAN E STANOK, LS FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THE ORIGINAL DATA WAS OBTAINED ON JULY 2, 2020 AND UPDATED ON SEPTEMBER 3, 2020. THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
  - UTILITIES SHOWN ARE BASED ON FIELD INVESTIGATION, VISIBLE FIELD EVIDENCE AND AVAILABLE RECORDS AND LIMITED QUALITY B UTILITY DESIGNATION. UTILITY LOCATIONS SHOWN ARE FOR DESIGN PURPOSES ONLY AND CANNOT BE GUARANTEED. CONTRACTOR/ENGINEER SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY EXACT LOCATION.
  - PROPERTY INFORMATION TAKEN FROM DEEDS OF RECORD AND BEST FIT TO FIELD FOUND EVIDENCE AND DOES NOT REPRESENT A BOUNDARY SURVEY.
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**SANITARY SEWER DATA:**

- (A) MANHOLE  
TOP=432.44  
INV OUT=425.09
- (B) MANHOLE  
TOP=430.07  
INV IN(A)=419.83  
INV IN(B)=419.35  
INV OUT=419.22
- (C) MANHOLE  
TOP=427.97  
INV OUT=420.10
- (D) MANHOLE  
TOP=429.41  
INV IN=417.02  
INV OUT=416.72
- (E) MANHOLE  
TOP=403.94  
INV IN=395.17  
INV OUT=394.86
- (F) MANHOLE  
TOP=399.98  
INV IN(A)=388.32  
INV IN(B)=387.26  
INV IN(C)=386.50  
INV OUT=386.95
- (G) MANHOLE  
TOP=397.20  
INV IN=385.52  
INV OUT=385.38
- (H) MANHOLE  
TOP=404.05  
UNABLE TO OBTAIN INVERTS

**BENCHMARK DATA:**

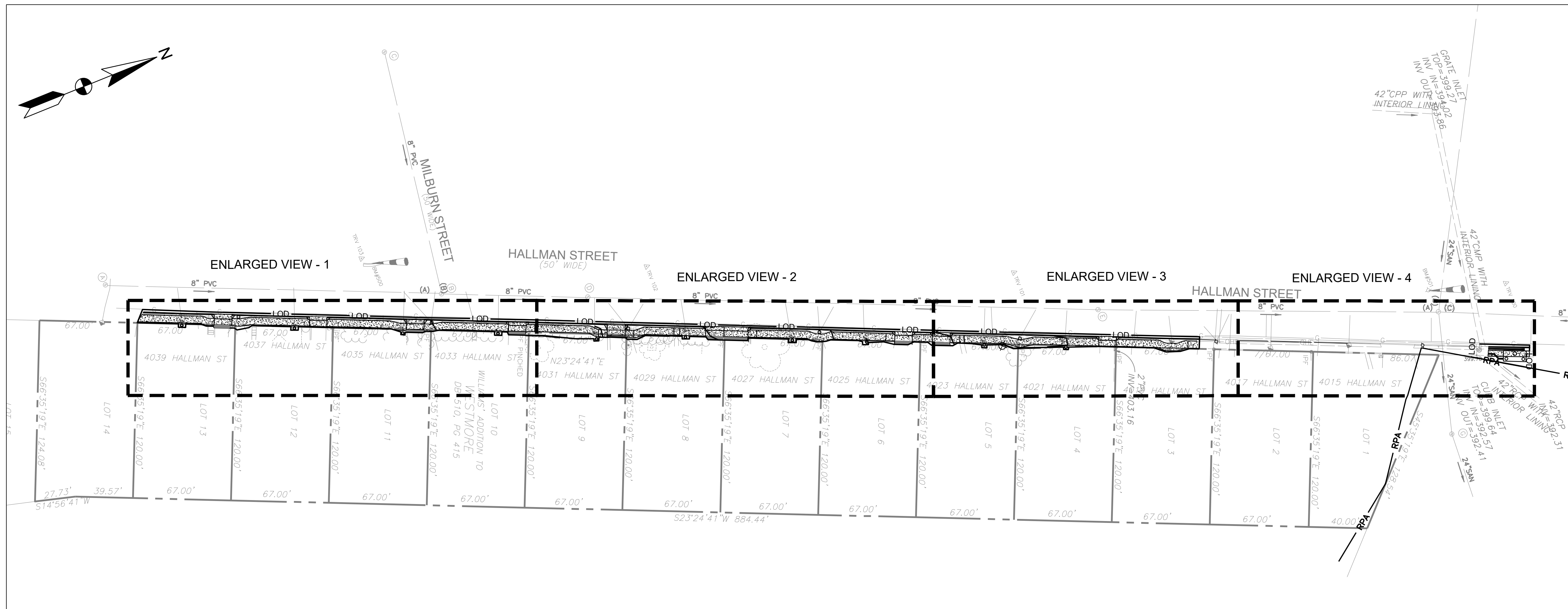
NO	ELEV	DESCRIPTION
500	430.90	X-CUT ON FIRE HYDRANT BOLT
501	401.91	SQUARE CUT ON CURB

**TRAVERSE DATA:**

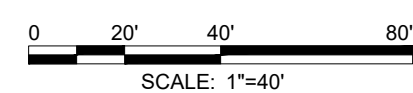
NO	NORTHING	EASTING	ELEV	DESCRIPTION
100	6994979.4582	11818515.3427	399.93	REBAR AND CAP
101	6994670.0930	11818382.5499	406.97	REBAR AND CAP
102	6994438.5571	11818284.4702	423.16	REBAR AND CAP
103	6994259.6423	11818206.3271	430.80	REBAR AND CAP

**LEGEND:**

- TREE
- BUSH
- MAILBOX
- BOLLARD
- POWER POLE
- GUY WIRE
- GROUND SHOT
- TOP OF WALL SHOT
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- WATER METER
- TRAVERSE
- IRON PIPE FOUND
- BENCHMARK
- CURB AND GUTTER
- OVERHEAD TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATERLINE PAINT MARK
- GAS LINE PAINT MARK
- FENCE
- LOD
- CRZ



**OVERALL PLAN VIEW**



**LEGEND:**

- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT FOR DRIVEWAY RECONSTRUCTION
- LOD
- CRZ
- MATCHLINE

**GENERAL NOTES:**

- ALL SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT APPLICABLE VAC AND ADA REGULATIONS WHICHEVER ARE MORE STRINGENT.
- THE CROSS SLOPE ON ANY SIDEWALK SHALL NOT EXCEED 2.0%.
- THE RUNNING GRADE ON ANY SIDEWALK SHALL MATCH EXISTING ROAD GRADE.
- THE SIDEWALK WIDTH ACROSS THE LIMITS OF THE DRIVEWAY SHALL BE 4 FEET WIDE.
- CONTRACTOR SHALL BE LIMITED TO CLOSING ON-STREET PARKING AND PERFORMING NEW SIDEWALK/DRIVEWAY WORK FOR A MAXIMUM OF TWO (2) RESIDENTIAL PROPERTIES AT A TIME. CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK IN ADVANCE PRIOR TO CLOSING ON-STREET PARKING AREAS.

MARK DATE DESCRIPTION

PROJECT NO: 17-0226.008  
SCALE: 1"=40'  
DESIGNED BY: JAA  
DRAWN BY: JES  
CHECKED BY: WJP/JAG

SHEET TITLE

OVERALL LAYOUT PLAN

CS-1

**NOTES:**

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- VERTICAL DATUM: NGVD 29
- CONTOUR INTERVAL IS ONE (1) FOOT.
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UNABLE TO OBTAIN INVERTS

**BENCHMARK DATA:**

NO	ELEV	DESCRIPTION
500	430.90	X-CUT ON FIRE HYDRANT BOLT
501	401.91	SQUARE CUT ON CURB

**TRAVERSE DATA:**

NO	NORTHING	EASTING	ELEV	DESCRIPTION
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101	6994670.0930	11818382.5499	406.97	REBAR AND CAP
102	6994438.5571	11818284.4702	423.16	REBAR AND CAP
103	6994259.6423	11818206.3271	430.80	REBAR AND CAP

**NOTES**

- REFER TO SHEETS LA-1 AND LA-2 FOR ADDITIONAL TREE PROTECTION INFORMATION.
- TREE PROTECTION FENCE AND ROOT PRUNING SHALL FOLLOW THE ALIGNMENT OF THE LOD. THEY ARE SHOWN OFFSET FOR GRAPHIC PURPOSES ONLY.

**LEGEND:**

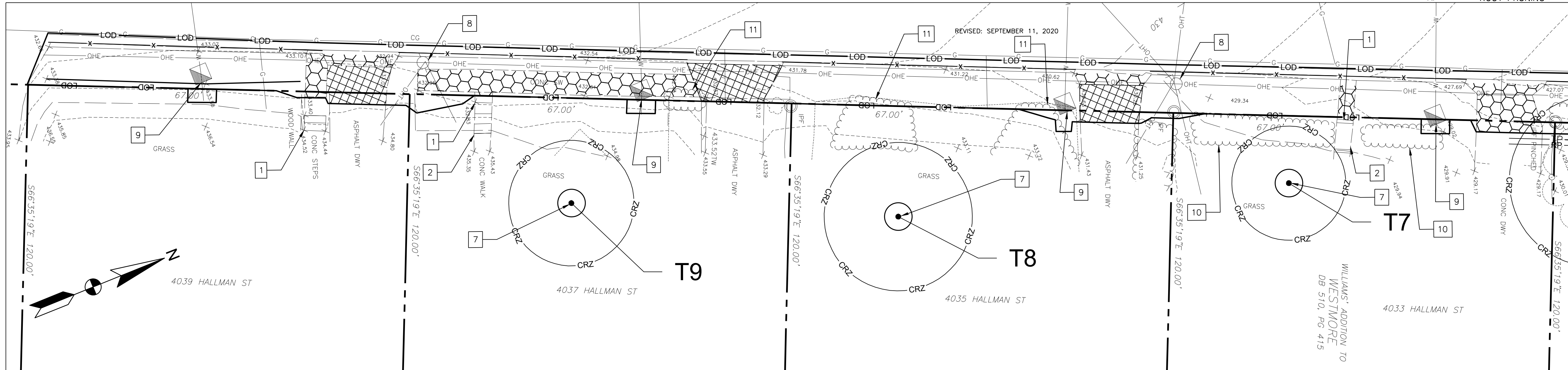
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- GROUND SHOT
- TOP OF WALL SHOT
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- WATER METER
- TRAVERSE
- IRON PIPE FOUND
- BENCHMARK
- CURB AND GUTTER
- OVERHEAD TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATERLINE PAINT MARK
- GAS LINE PAINT MARK
- FENCE
- LOD
- CRZ

**DEMOLITION KEYNOTES**

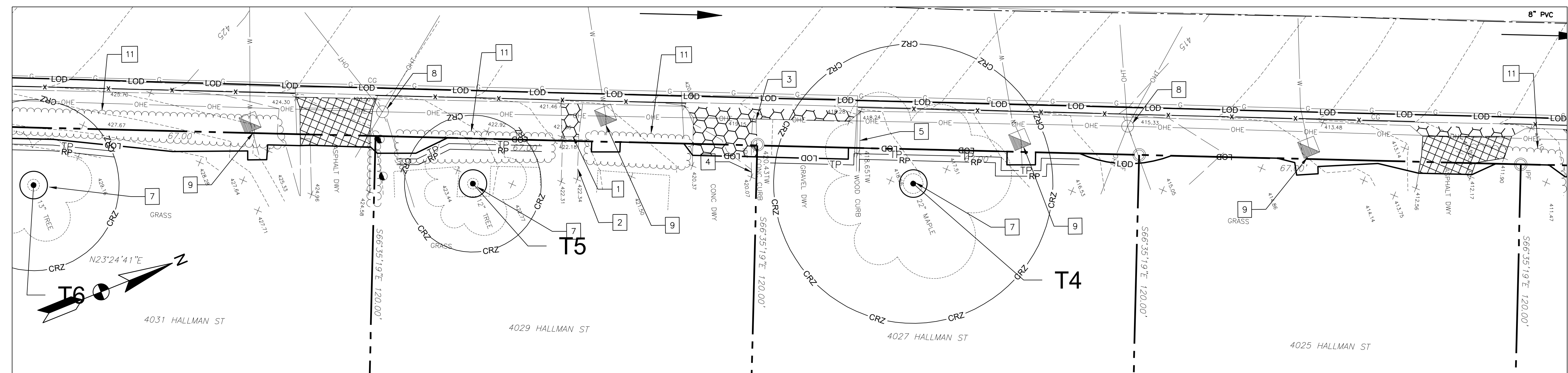
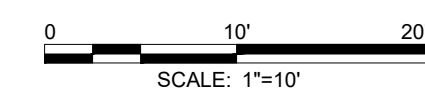
- CONCRETE STEPS TO REMAIN
- CONCRETE WALK TO REMAIN
- CONCRETE CURB TO BE REMOVED
- CONCRETE CURB TO REMAIN
- WOOD CURB TO BE REMOVED
- BRICK WALK TO BE REMOVED
- EXISTING TREE TO REMAIN
- LIGHTPOLE TO REMAIN
- WATER METER TO BE RELOCATED (SEE SITE PLAN)
- PLANTINGS TO REMAIN
- PORTION OF PLANTINGS WITHIN LOD TO BE REMOVED AS NEEDED
- TREE TO BE REMOVED, CONTRACTOR TO GRIND STUMPS.

**DEMOLITION LEGEND:**

- CONCRETE TO BE REMOVED
- ASPHALT TO BE REMOVED
- CURB TO BE REMOVED
- TP
- RP
- TREE PROTECTION FENCE
- ROOT PRUNING



**ENLARGED VIEW - 1**



**ENLARGED VIEW - 2**



**AMT**  
A. MORTON THOMAS AND ASSOCIATES, INC.  
CONSULTING ENGINEERS  
800 KING FARM BOULEVARD, 4TH FLOOR  
ROCKVILLE, MD 20850  
PHONE (301) 881-2545 | FAX (301) 881-0814  
EMAIL: AMT1@AMTENGINEERING.COM

**CONSULTANTS**



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

**MARK DATE DESCRIPTION**

PROJECT NO:	17-0226.008
SCALE:	1"=10'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG
SHEET TITLE	

**EXISTING CONDITIONS  
AND DEMOLITION PLAN**

**CS-2**

- NOTES:
- HORIZONTAL DATUM: VIRGINIA STATE PLANE (NAD 83)
  - VERTICAL DATUM: NGVD 29
  - CONTOUR INTERVAL IS ONE (1) FOOT.
  - THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF SUSAN E STANKIK, LS FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THE ORIGINAL DATA WAS OBTAINED ON JULY 2, 2020 AND UPDATED ON SEPTEMBER 3, 2020. THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
  - UTILITIES SHOWN ARE BASED ON FIELD INVESTIGATION, VISIBLE FIELD EVIDENCE AND AVAILABLE RECORDS AND LIMITED QUALITY B UTILITY DESIGNATION. UTILITY LOCATIONS SHOWN ARE FOR DESIGN PURPOSES ONLY AND CANNOT BE GUARANTEED. CONTRACTOR/ENGINEER SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY EXACT LOCATION.
  - PROPERTY INFORMATION TAKEN FROM DEEDS OF RECORD AND BEST FIT TO FIELD FOUND EVIDENCE AND DOES NOT REPRESENT A BOUNDARY SURVEY.
  - THIS SURVEY MAY NOT SHOW ALL COVENANTS, RESTRICTIONS, EASEMENTS OR DEDICATION OF RECORD WHICH MAY EXIST IN THE CHAIN OF TITLE(S). NO TITLE REPORT(S) HAVE BEEN FURNISHED.

SANITARY SEWER DATA:

- (A) MANHOLE  
TOP=432.44  
INV OUT=425.09
- (B) MANHOLE  
TOP=430.07  
INV IN(A)=419.83  
INV IN(B)=419.35  
INV OUT=419.22
- (C) MANHOLE  
TOP=427.97  
INV OUT=420.10
- (D) MANHOLE  
TOP=425.41  
INV IN=417.02  
INV OUT=416.72
- (E) MANHOLE  
TOP=403.94  
INV IN=395.17  
INV OUT=394.86
- (F) MANHOLE  
TOP=392.98  
INV IN(A)=388.32  
INV IN(B)=387.28  
INV IN(C)=386.50  
INV OUT=386.95
- (G) MANHOLE  
TOP=397.20  
INV IN=385.52  
INV OUT=385.38
- (H) MANHOLE  
TOP=404.05  
UNABLE TO OBTAIN INVERTS

BENCHMARK DATA:

NO	ELEV	DESCRIPTION
500	430.90	X-CUT ON FIRE HYDRANT BOLT
501	401.91	SQUARE CUT ON CURB

TRAVERSE DATA:

NO	NORTHING	EASTING	ELEV	DESCRIPTION
100	6994979.4582	11818515.3427	399.93	REBAR AND CAP
101	6994670.0930	11818382.5499	406.97	REBAR AND CAP
102	6994438.5571	11818284.4702	423.16	REBAR AND CAP
103	6994259.6423	11818206.3271	430.80	REBAR AND CAP

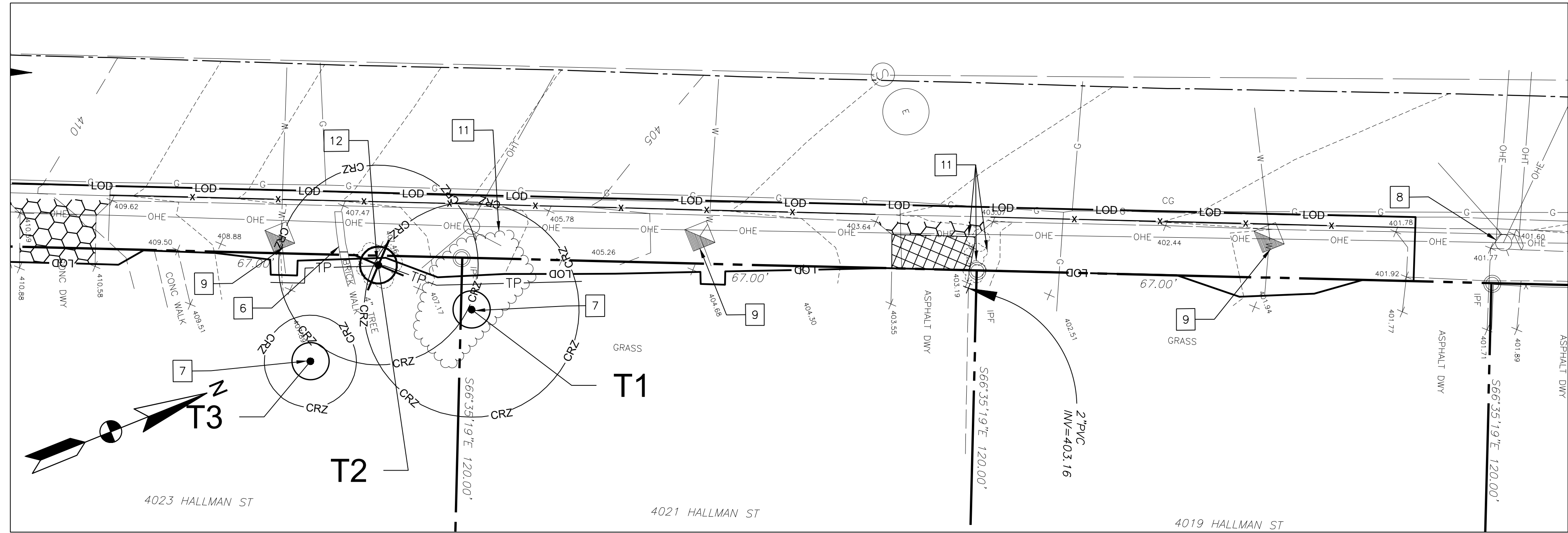
LEGEND:

- TREE
- BUSH
- MAILBOX
- BOLLARD
- POWER POLE
- GUY WIRE
- GROUND SHOT
- TOP OF WALL SHOT
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- WATER METER
- TRAVERSE
- IRON PIPE FOUND
- BENCHMARK
- CURB AND GUTTER
- OVERHEAD TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATERLINE PAINT MARK
- GAS LINE PAINT MARK
- FENCE
- LIMIT OF DISTURBANCE
- CRITICAL ROOT ZONE

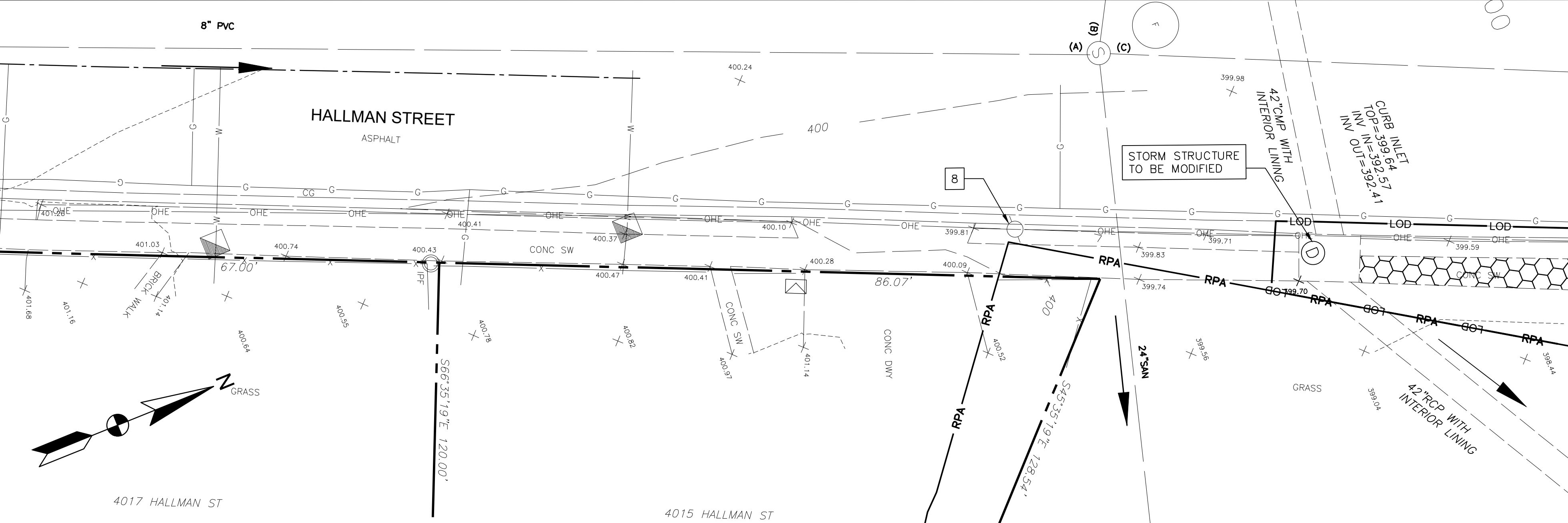
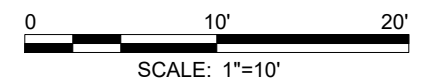
DEMOLITION KEYNOTES

- CONCRETE STEPS TO REMAIN
- CONCRETE WALK TO REMAIN
- CONCRETE CURB TO BE REMOVED
- CONCRETE CURB TO REMAIN
- WOOD CURB TO BE REMOVED
- BRICK WALK TO BE REMOVED
- EXISTING TREE TO REMAIN
- LIGHTPOLE TO REMAIN
- WATER METER TO BE RELOCATED (SEE SITE PLAN)
- PLANTINGS TO REMAIN
- PORTION OF PLANTINGS WITHIN LOD TO BE REMOVED AS NEEDED
- TREE TO BE REMOVED, CONTRACTOR TO GRIND STUMPS.

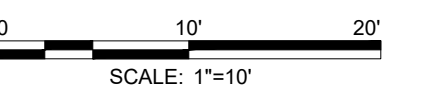
- NOTES:
- REFER TO SHEETS LA-1 AND LA-2 FOR ADDITIONAL TREE PROTECTION INFORMATION.
  - TREE PROTECTION FENCE AND ROOT PRUNING SHALL FOLLOW THE ALIGNMENT OF THE LOD. THEY ARE SHOWN OFFSET FOR GRAPHIC PURPOSES ONLY.



ENLARGED VIEW - 3



ENLARGED VIEW - 4



DEMOLITION LEGEND:

- CONCRETE TO BE REMOVED
- ASPHALT TO BE REMOVED
- CURB TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING



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CONSULTANTS



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION

PROJECT NO: 17-0226.008  
SCALE: 1"=10'  
DESIGNED BY: JAA  
DRAWN BY: JES  
CHECKED BY: WJP/JAG  
SHEET TITLE

EXISTING CONDITIONS  
AND DEMOLITION PLAN

CS-3

CONSULTANTS



**HALLMAN ST. SW  
SIDEWALK DESIGN**  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS

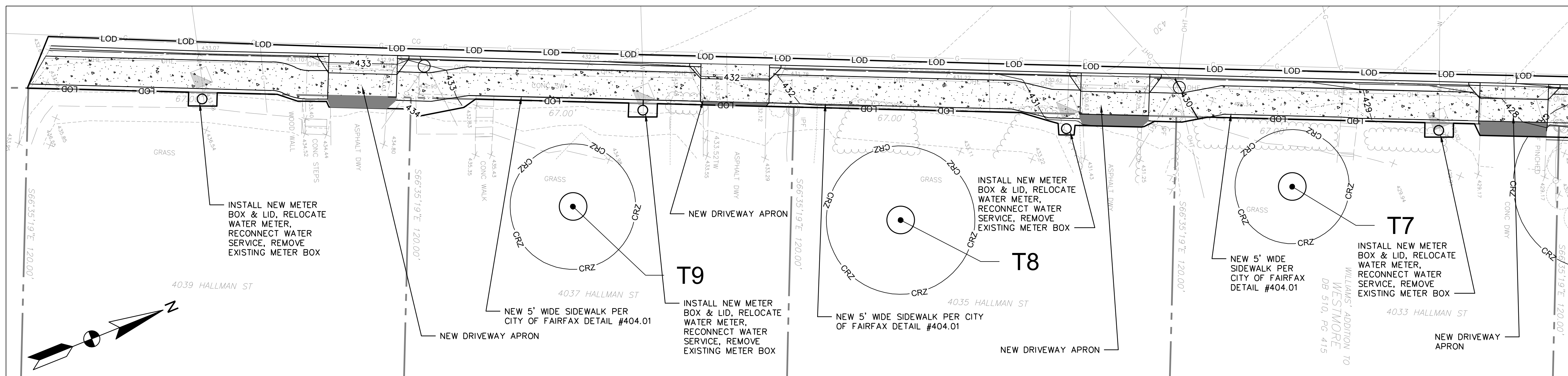
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION

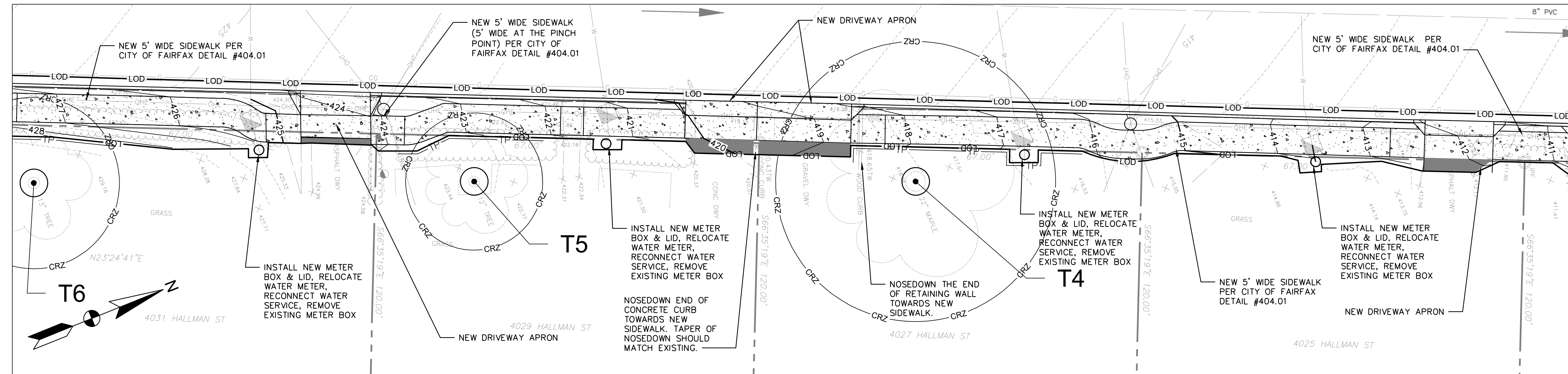
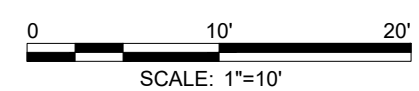
PROJECT NO:	17-0226.008
SCALE:	1"=10'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG
SHEET TITLE	

SITE PLAN

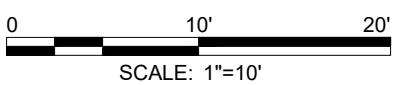
CS-4



ENLARGED VIEW - 1



ENLARGED VIEW - 2



LEGEND:

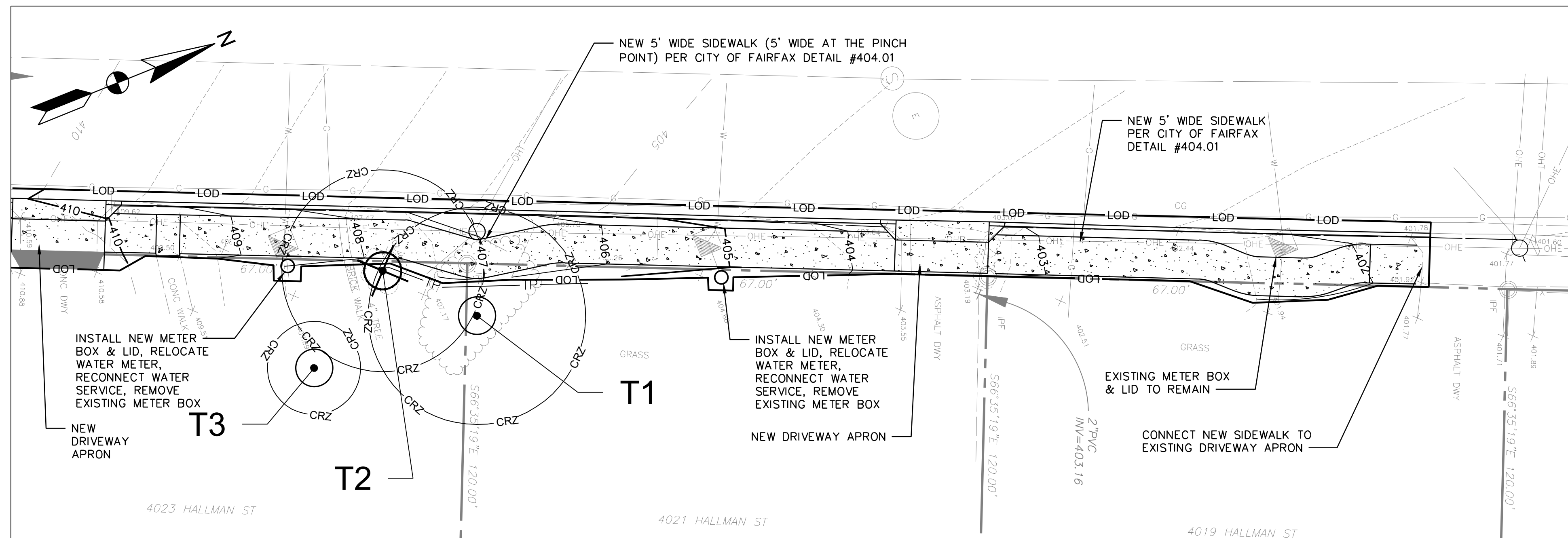
- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT FOR DRIVEWAY RECONSTRUCTION
- LIMIT OF DISTURBANCE
- CRITICAL ROOT ZONE
- PROPOSED GRADE
- TREE PROTECTION FENCE

GENERAL NOTES:

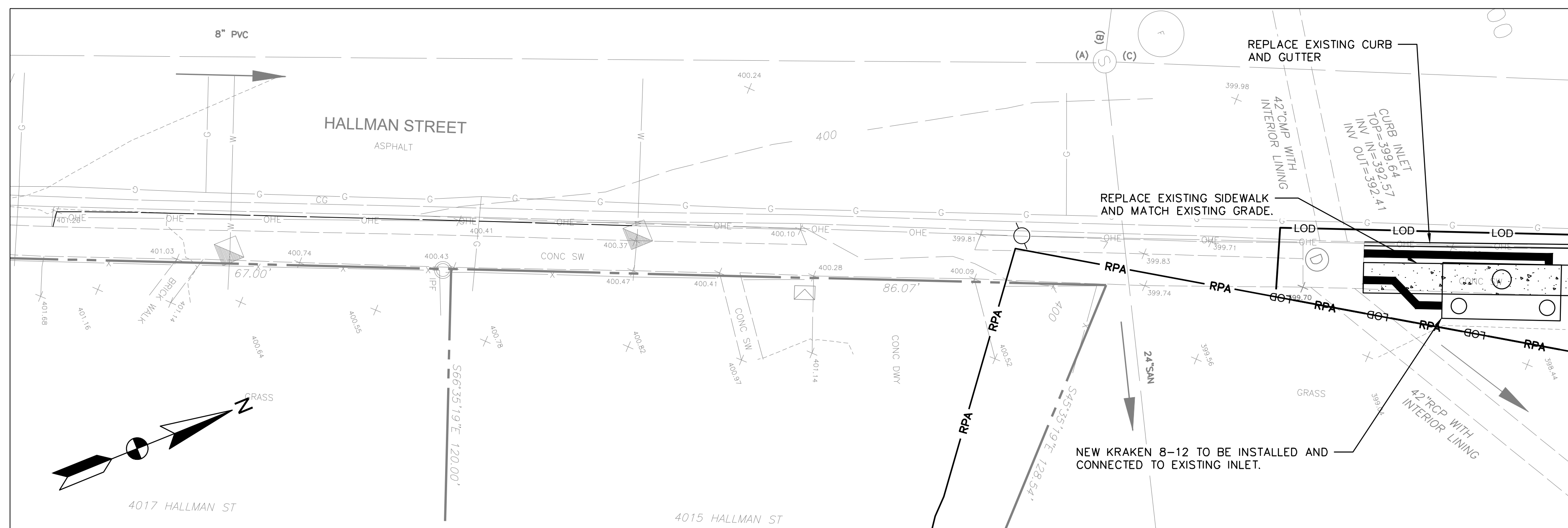
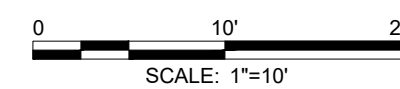
1. ALL SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT APPLICABLE VAC AND ADA REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. THE CROSS SLOPE ON ANY SIDEWALK SHALL NOT EXCEED 2.0%.
3. THE RUNNING GRADE ON ANY SIDEWALK SHALL MATCH EXISTING ROAD GRADE.
4. THE SIDEWALK WIDTH ACROSS THE LIMITS OF THE DRIVEWAY SHALL BE 4 FEET WIDE.
5. CONTRACTOR SHALL BE LIMITED TO CLOSING ON-STREET PARKING AND PERFORMING NEW SIDEWALK/DRIVEWAY WORK FOR A MAXIMUM OF TWO (2) RESIDENTIAL PROPERTIES AT A TIME. CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK IN ADVANCE PRIOR TO CLOSING ON-STREET PARKING AREAS.

FAIRFAX WATER NOTES

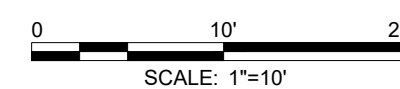
1. AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT GARY TEAGUE, ENGINEERING INSPECTION SUPERVISOR, AT 703-289-6399 TO SCHEDULE A PRE-CONSTRUCTION FIELD MEETING.
2. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT FAIRFAX WATER STANDARD DETAILS AS SHOWN ON SHEET CS-8.



ENLARGED VIEW - 3



ENLARGED VIEW - 4



**LEGEND:**

- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT FOR DRIVEWAY RECONSTRUCTION
- LOD —— LIMIT OF DISTURBANCE
- CRZ —— CRITICAL ROOT ZONE
- 424 —— PROPOSED GRADE
- TP —— TREE PROTECTION FENCE

**GENERAL NOTES:**

1. ALL SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT APPLICABLE VAC AND ADA REGULATIONS WHICHEVER ARE MORE STRINGENT.
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**FAIRFAX WATER NOTES**

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ROCKVILLE, MD 20850  
PHONE (301) 881-2545 | FAX (301) 881-0814  
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION

PROJECT NO:	17-0226.008
SCALE:	1"=10'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG
SHEET TITLE	

SITE PLAN

CS-5



A. MORTON THOMAS AND ASSOCIATES, INC.  
CONSULTING ENGINEERS  
800 KING FARM BOULEVARD, 4TH FLOOR  
ROCKVILLE, MD 20850  
PHONE (301) 881-2545 | FAX (301) 881-0814  
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS

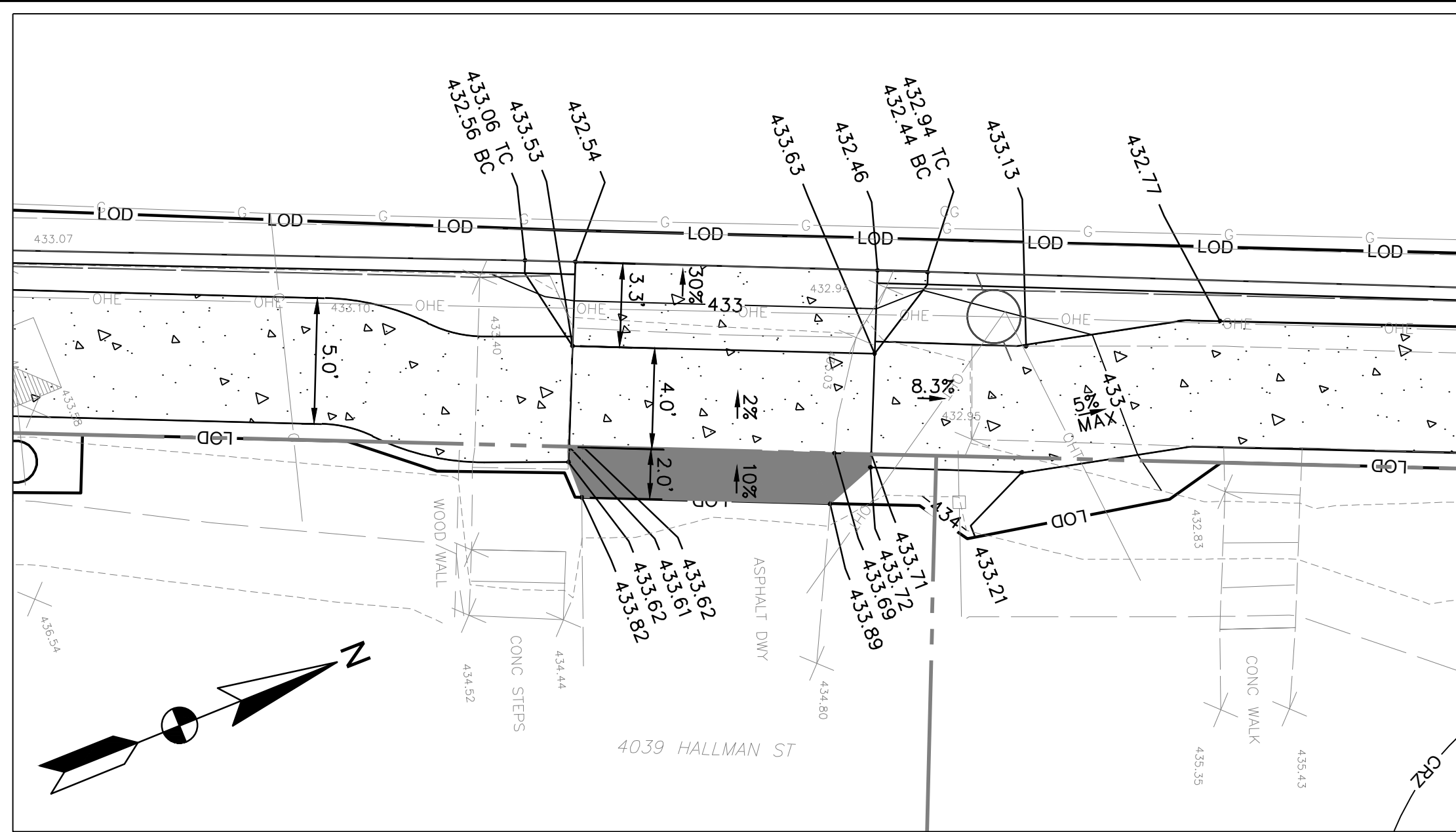


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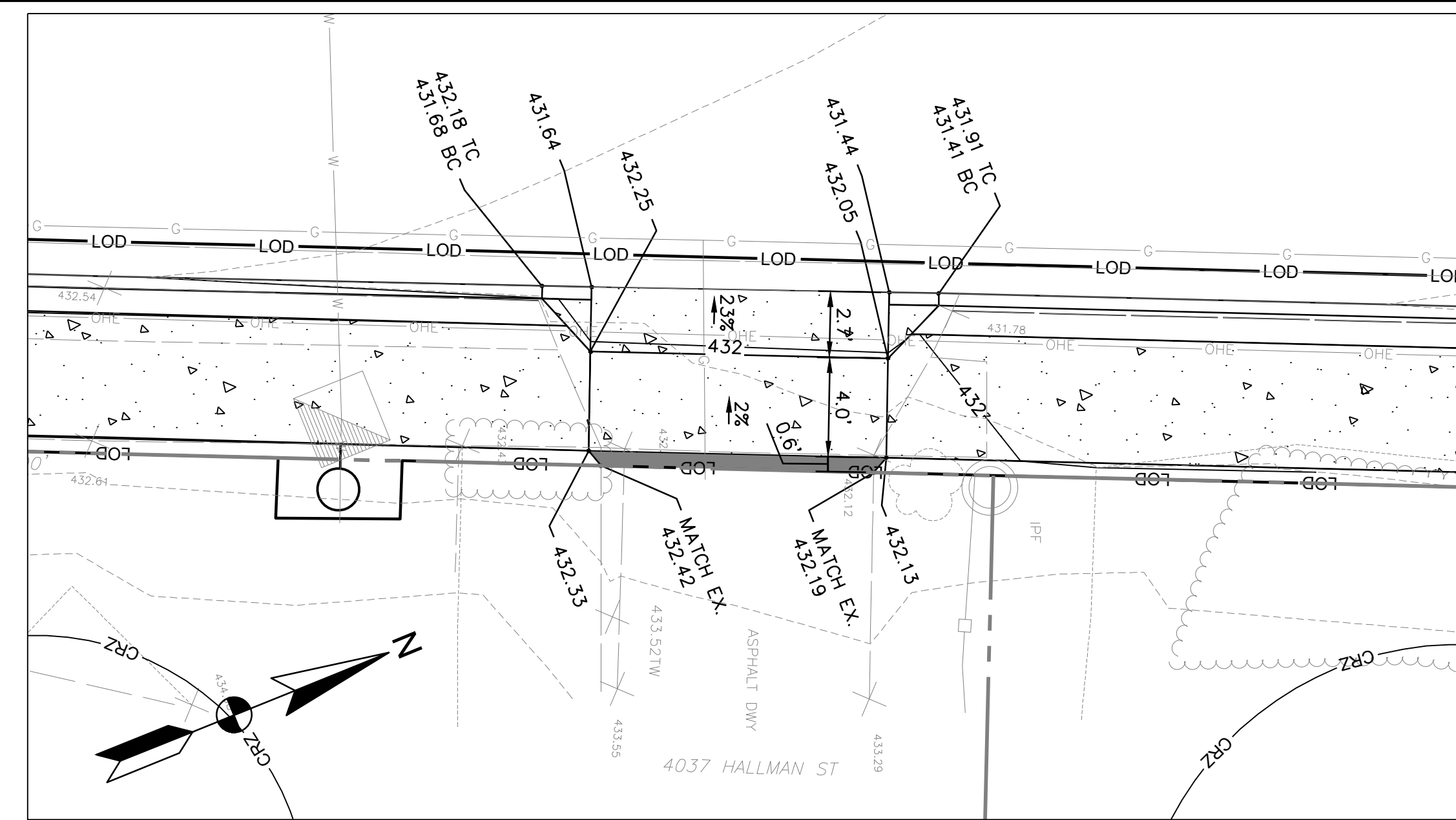
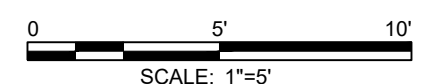


HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

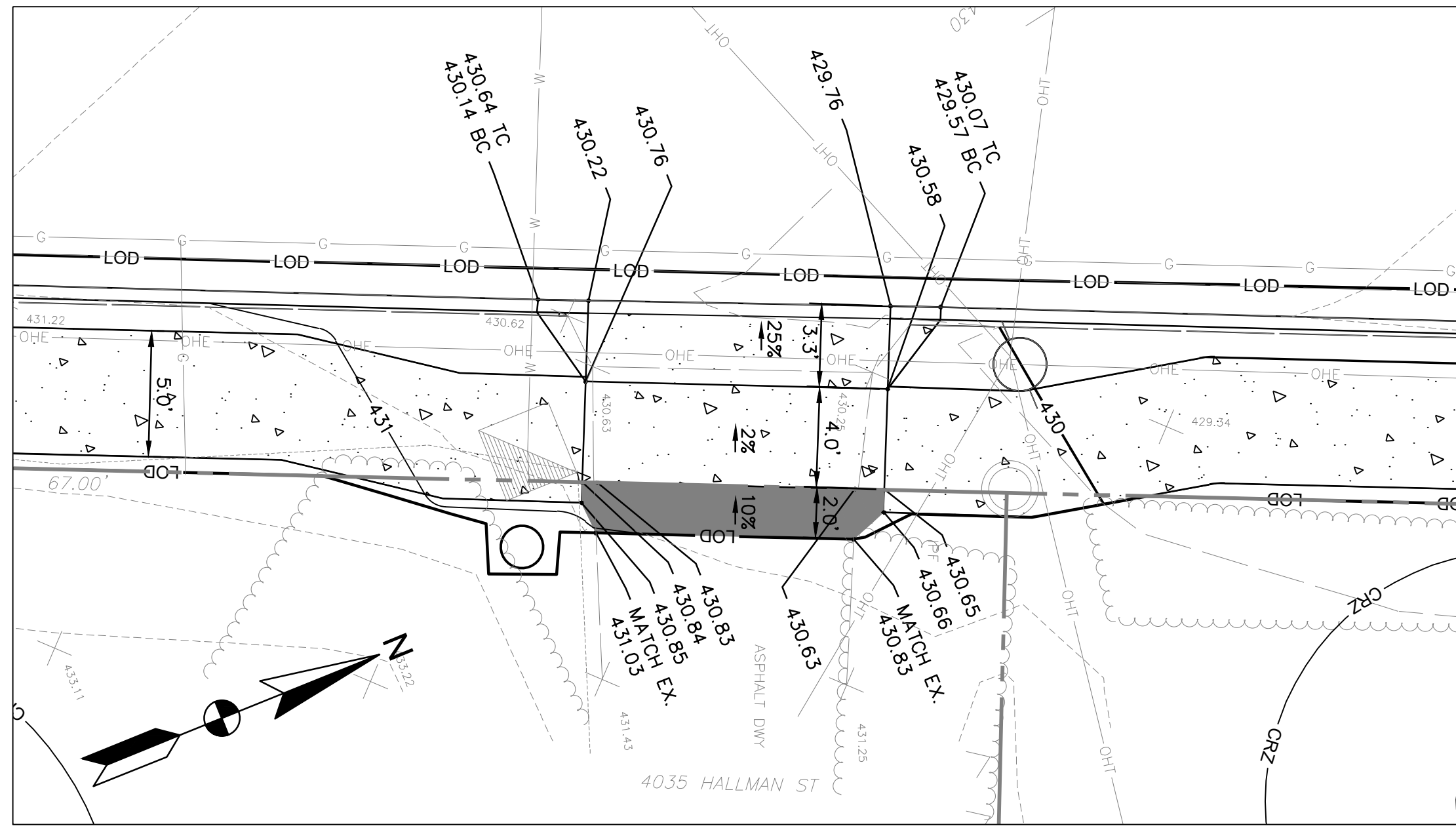
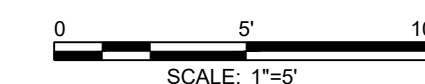
TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630



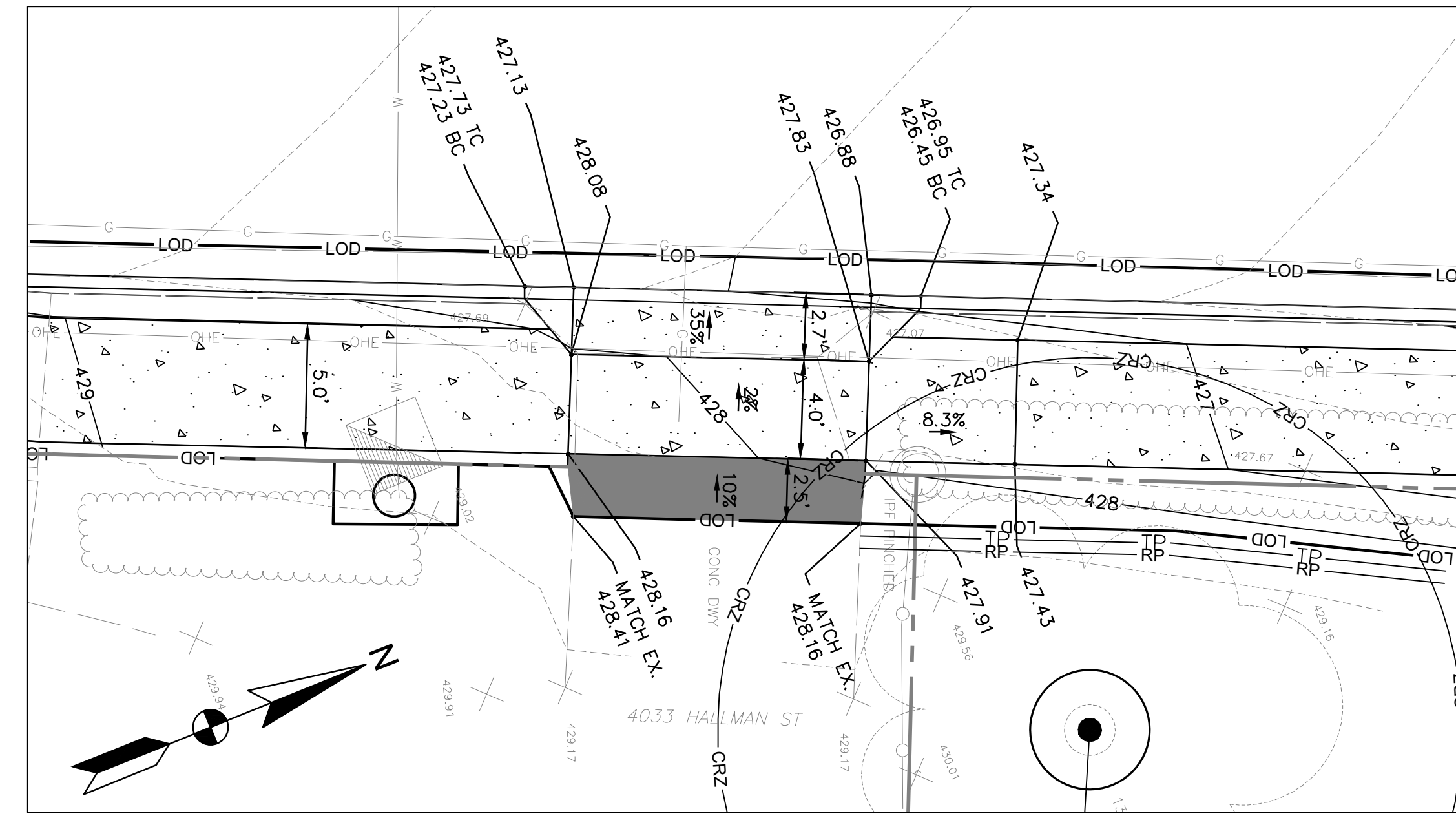
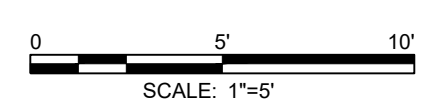
DETAILED GRADING - 1



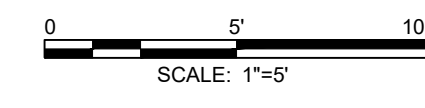
DETAILED GRADING - 2



DETAILED GRADING - 3



DETAILED GRADING - 4

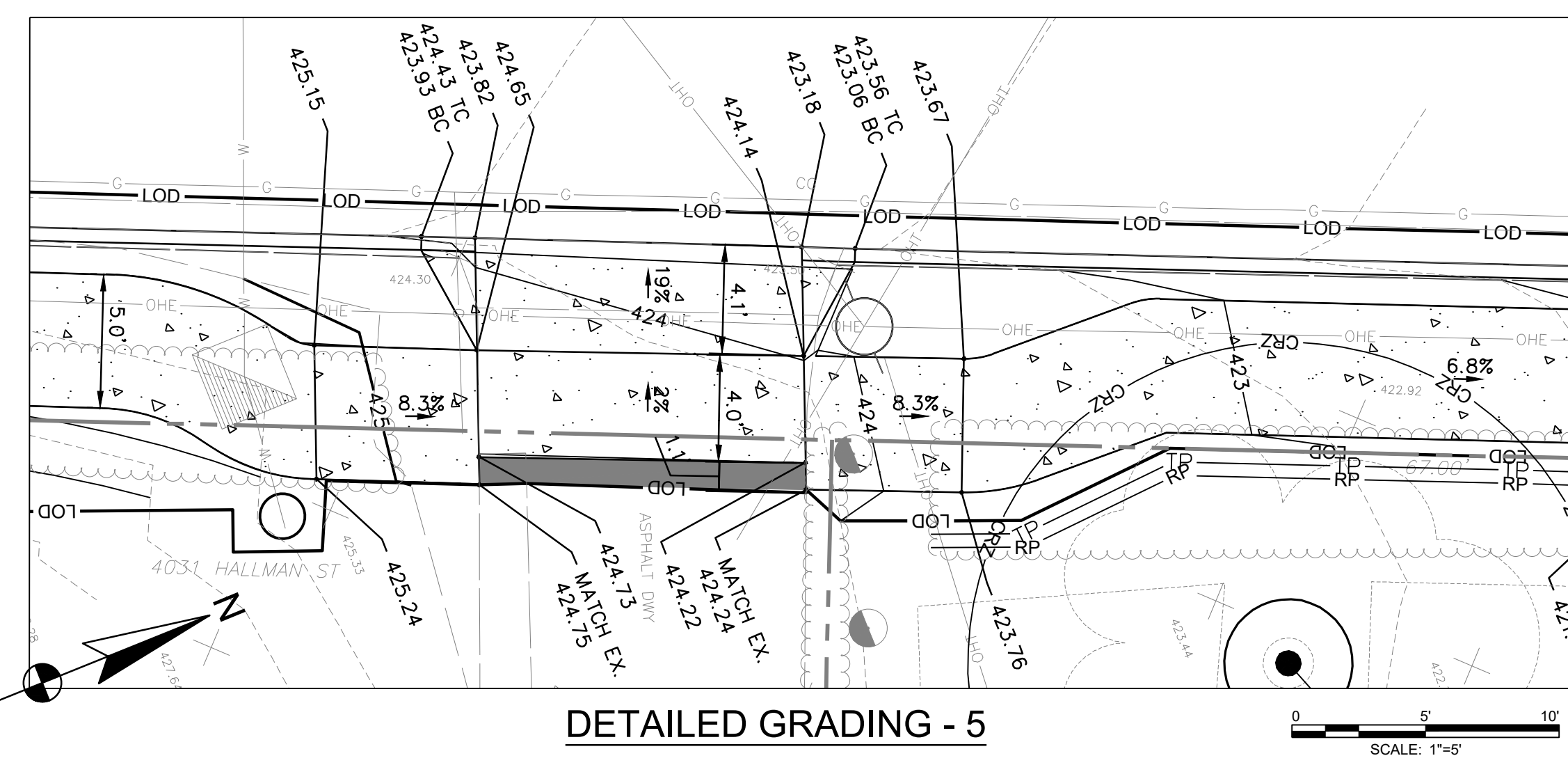


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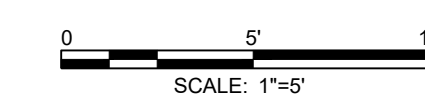
- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT FOR DRIVEWAY RECONSTRUCTION
- LOD LIMIT OF DISTURBANCE
- CRZ CRITICAL ROOT ZONE
- 424 PROPOSED GRADE
- TP TREE PROTECTION FENCE
- RP ROOT PRUNING

**GENERAL NOTES:**

1. ALL SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT APPLICABLE VAC AND ADA REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. THE CROSS SLOPE ON ANY SIDEWALK SHALL NOT EXCEED 2.0%.
3. THE RUNNING GRADE ON ANY SIDEWALK SHALL MATCH EXISTING ROAD GRADE.
4. THE SIDEWALK WIDTH ACROSS THE LIMITS OF THE DRIVEWAY SHALL BE 4 FEET WIDE.
5. CONTRACTOR SHALL BE LIMITED TO CLOSING ON-STREET PARKING AND PERFORMING NEW SIDEWALK/DRIVEWAY WORK FOR A MAXIMUM OF TWO (2) RESIDENTIAL PROPERTIES AT A TIME. CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK IN ADVANCE PRIOR TO CLOSING ON-STREET PARKING AREAS.
6. TREE PROTECTION FENCE AND ROOT PRUNING SHALL FOLLOW THE ALIGNMENT OF THE LOD. THEY ARE SHOWN OFFSET FOR GRAPHIC PURPOSES ONLY.



DETAILED GRADING - 5



MARK	DATE	DESCRIPTION

PROJECT NO:	17-0226.008
SCALE:	1"=5'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE

**DETAILED GRADING PLAN**

**CS-6**

SHEET 08 OF 25



# AMT

A. MORTON THOMAS AND ASSOCIATES, INC.  
CONSULTING ENGINEERS  
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PHONE (301) 881-2545 | FAX (301) 881-0814  
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS



## HALLMAN ST. SW SIDEWALK DESIGN FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

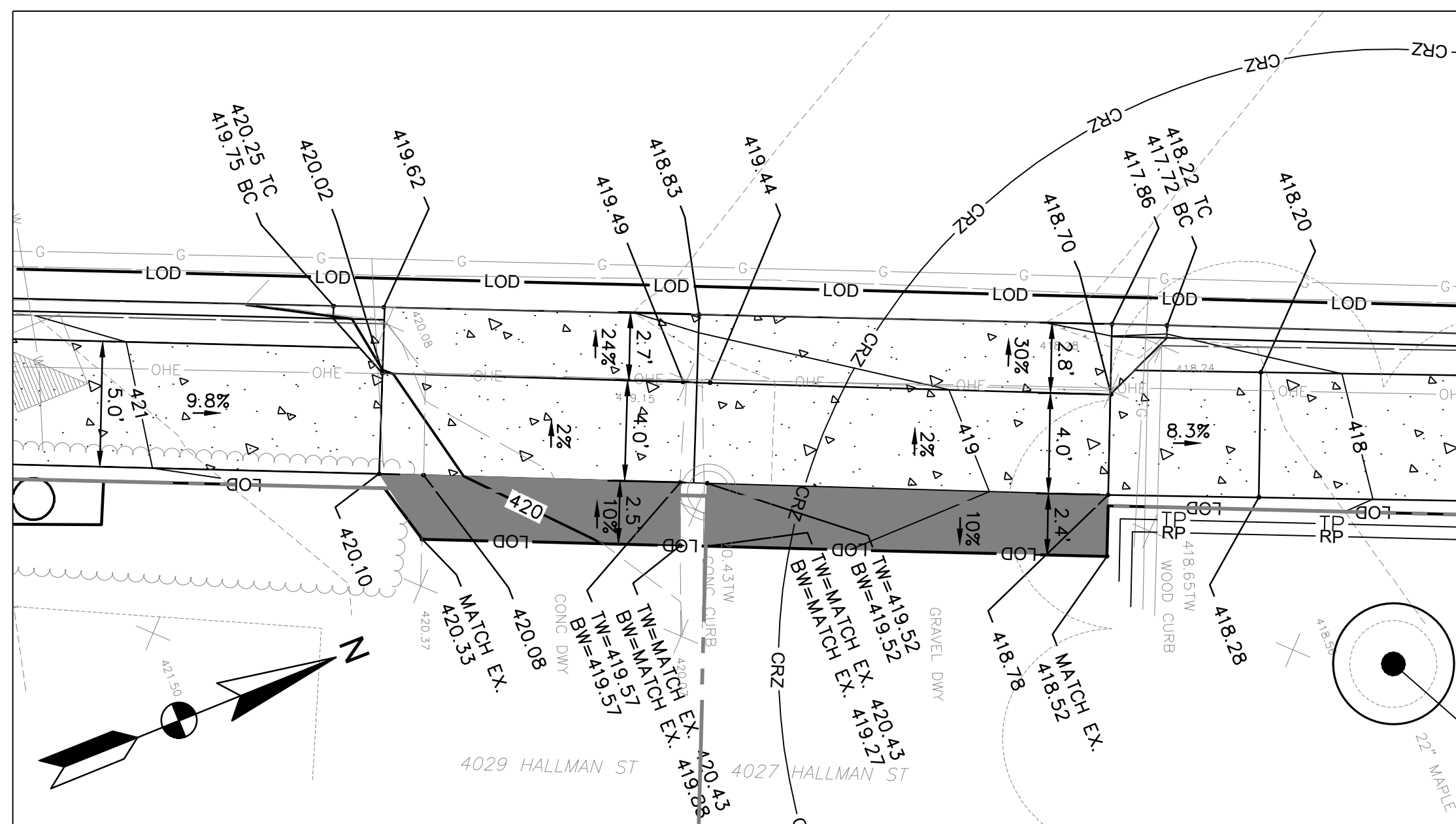
MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
SCALE:	1"=5'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG
SHEET TITLE	

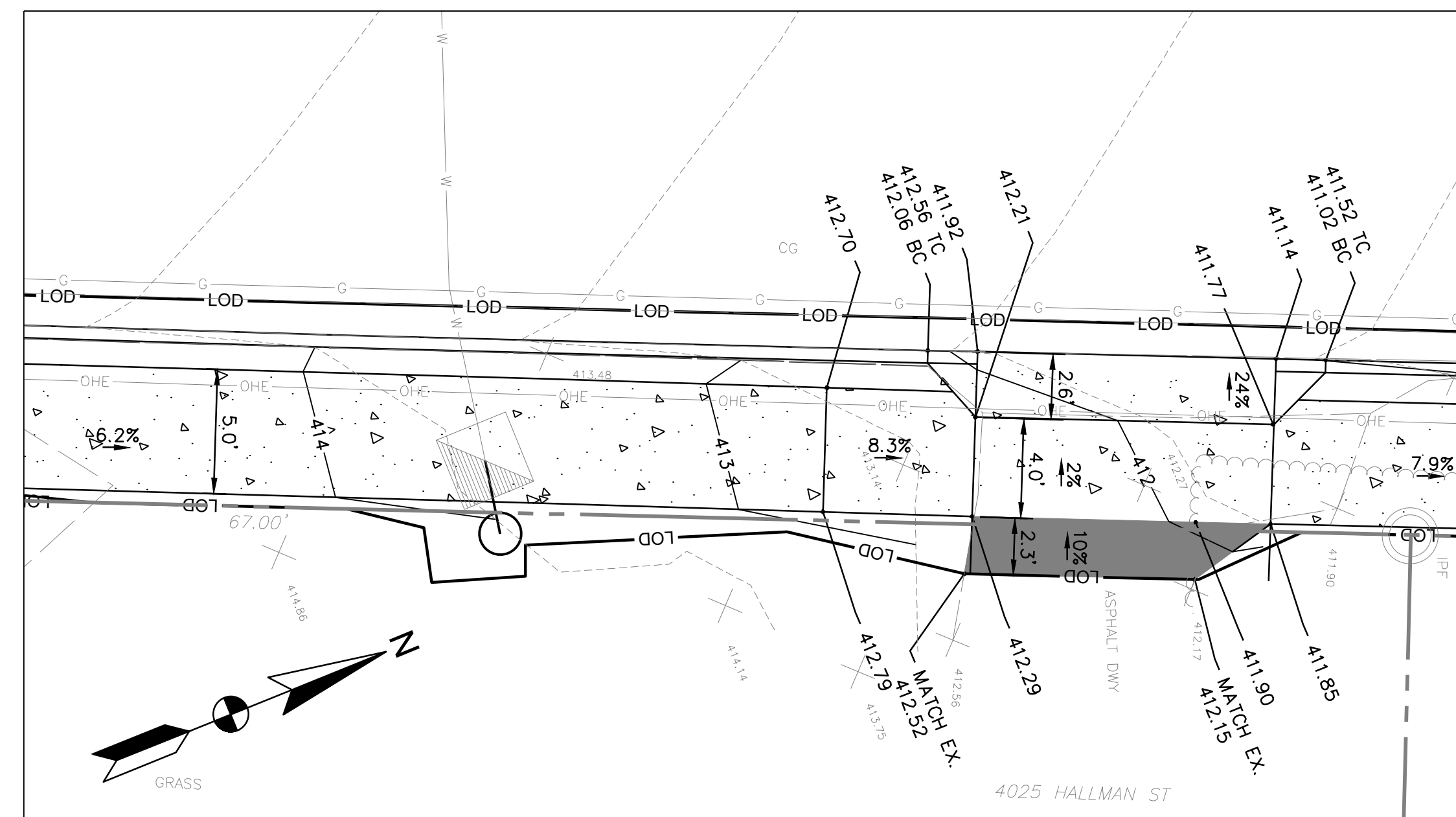
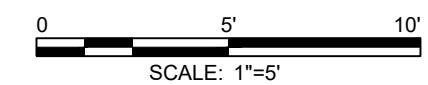
## DETAILED GRADING PLAN

# CS-7

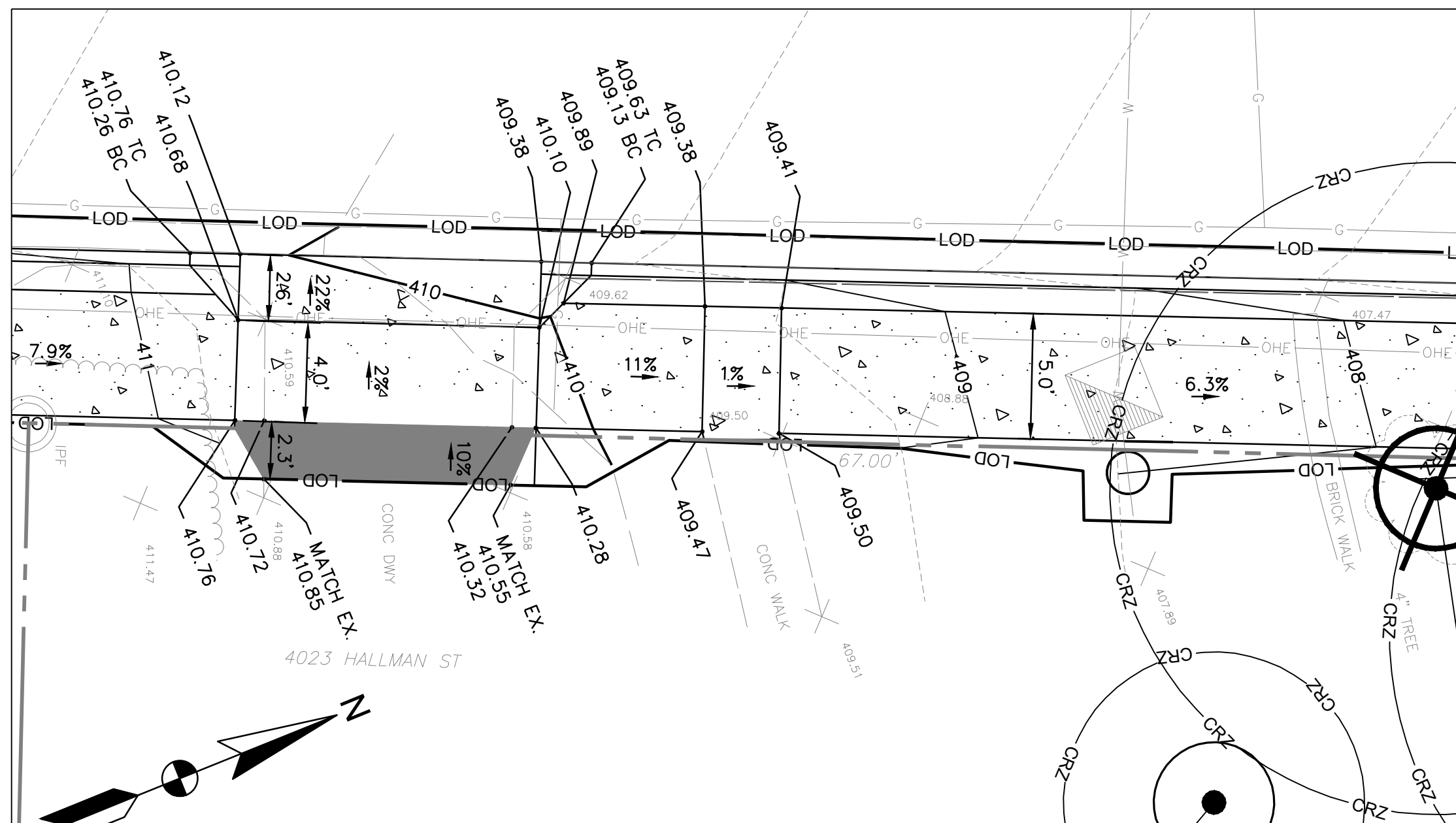
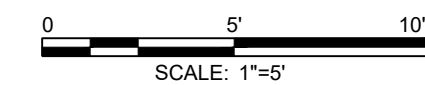
SHEET 09 OF 25



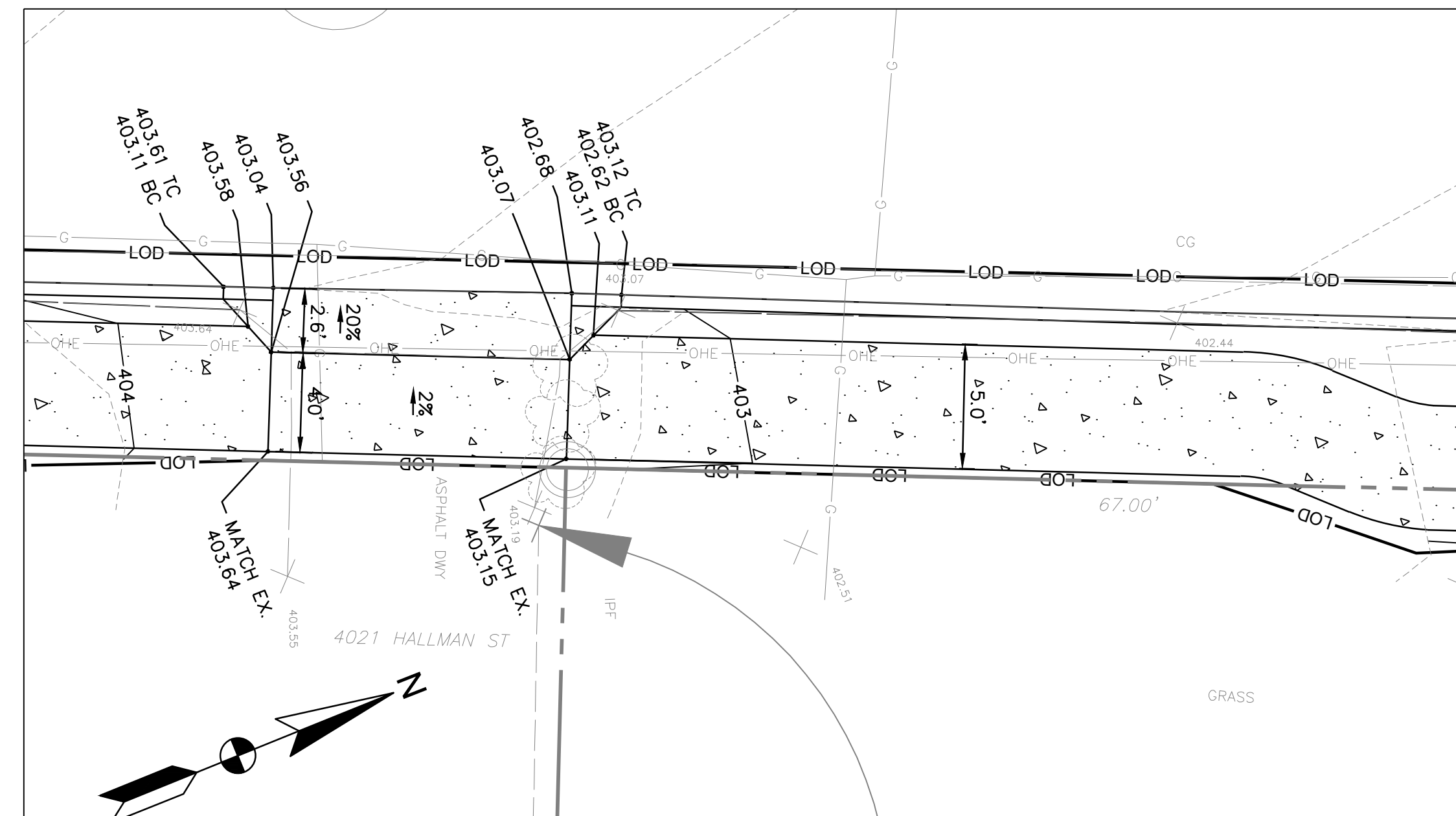
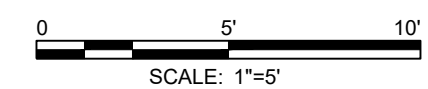
DETAILED GRADING - 6



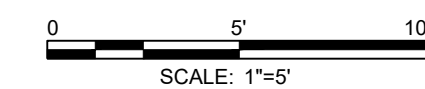
DETAILED GRADING - 7



DETAILED GRADING - 8



DETAILED GRADING - 9



### LEGEND:



PROPOSED CONCRETE



PROPOSED ASPHALT PAVEMENT FOR  
DRIVEWAY RECONSTRUCTION



LIMIT OF DISTURBANCE



CRITICAL ROOT ZONE



PROPOSED GRADE



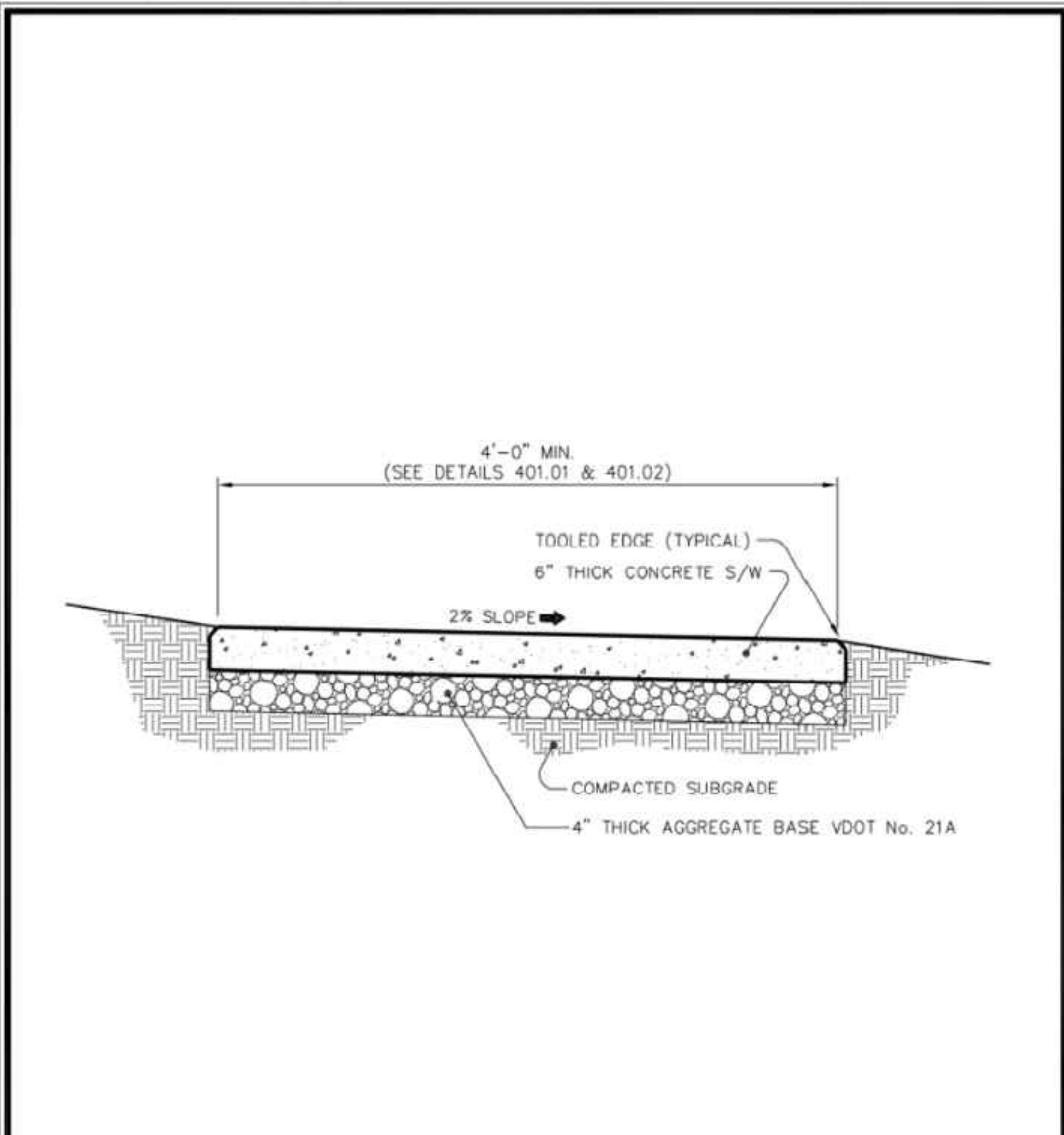
TREE PROTECTION FENCE



ROOT PRUNING

### GENERAL NOTES:

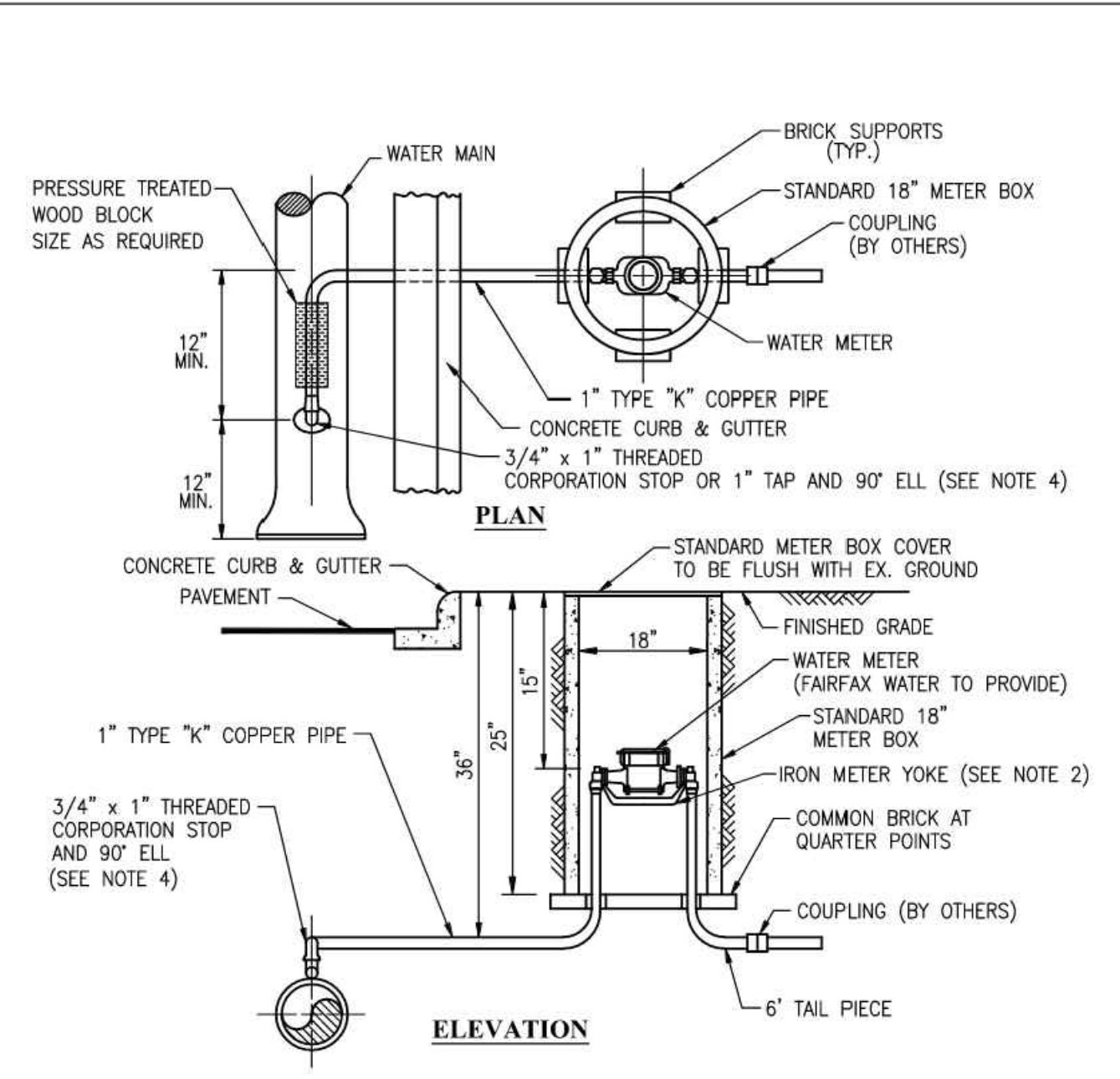
1. ALL SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT APPLICABLE VAC AND ADA REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. THE CROSS SLOPE ON ANY SIDEWALK SHALL NOT EXCEED 2.0%.
3. THE RUNNING GRADE ON ANY SIDEWALK SHALL MATCH EXISTING ROAD GRADE.
4. THE SIDEWALK WIDTH ACROSS THE LIMITS OF THE DRIVEWAY SHALL BE 4 FEET WIDE.
5. CONTRACTOR SHALL BE LIMITED TO CLOSING ON-STREET PARKING AND PERFORMING NEW SIDEWALK/DRIVEWAY WORK FOR A MAXIMUM OF TWO (2) RESIDENTIAL PROPERTIES AT A TIME. CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK IN ADVANCE PRIOR TO CLOSING ON-STREET PARKING AREAS.
6. TREE PROTECTION FENCE AND ROOT PRUNING SHALL FOLLOW THE ALIGNMENT OF THE LOD. THEY ARE SHOWN OFFSET FOR GRAPHIC PURPOSES ONLY.



**NOTES:**  
 1. Concrete to be Class A3 or better.  
 2. Longitudinal expansion joint not to exceed 80 feet.

 Department of Public Works 10455 Armstrong Street Fairfax, VA 22030-3630	<b>CITY of FAIRFAX</b> USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY		Voice (703) 246-6330 FAX (703) 391-5727 www.fairfaxva.gov
	SCALE: Not To Scale	DETAIL # 404.01	SHEET # 1 of 1

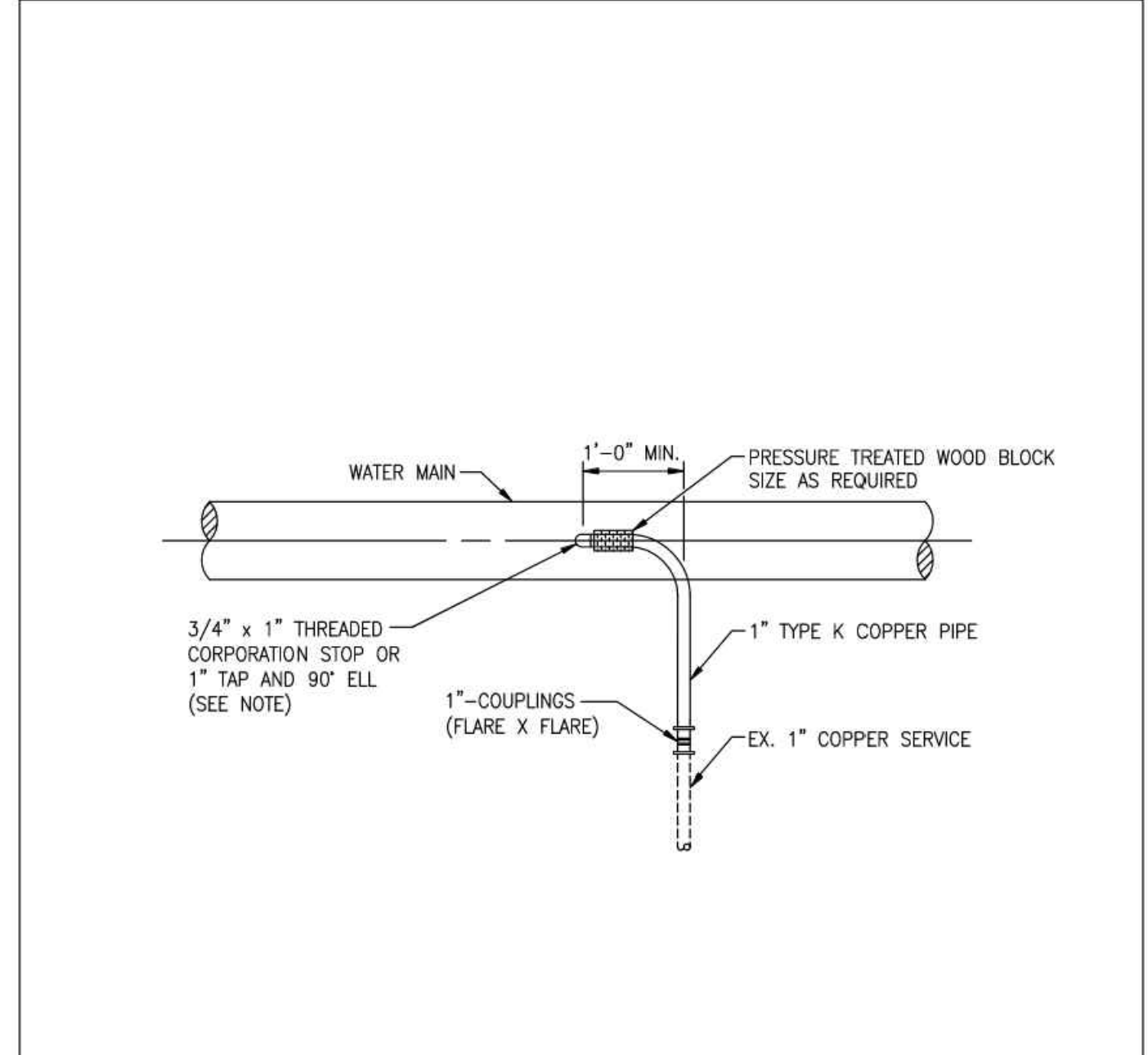
**STANDARD SIDEWALK DETAIL**



**NOTES:**  
 1. NO PLASTIC TUBING TO BE USED INSIDE METER BOX.  
 2. METER BOX, METER BOX COVER, AND METER YOKE TO BE FAIRFAX WATER STANDARD TYPE.  
 3. THREADED SERVICE CLAMP TO BE USED ON 3" AND 20" & LARGER WATER MAINS.  
 4. COAT WITH PETROLATUM TAPE PER SECTION 13110 CATHODIC PROTECTION.  
 5. NO STRUCTURES, POLES, SIGN POSTS, TREES OR SHRUBS TO BE INSTALLED WITHIN FOUR FEET OF METER CROCK.

	<b>FAIRFAX WATER STANDARD DETAILS</b>	SCALE: NOT TO SCALE
	<b>1" SERVICE CONNECTION WITH 5/8" OR 3/4" METER</b>	DRAWING NO.: <b>1</b>

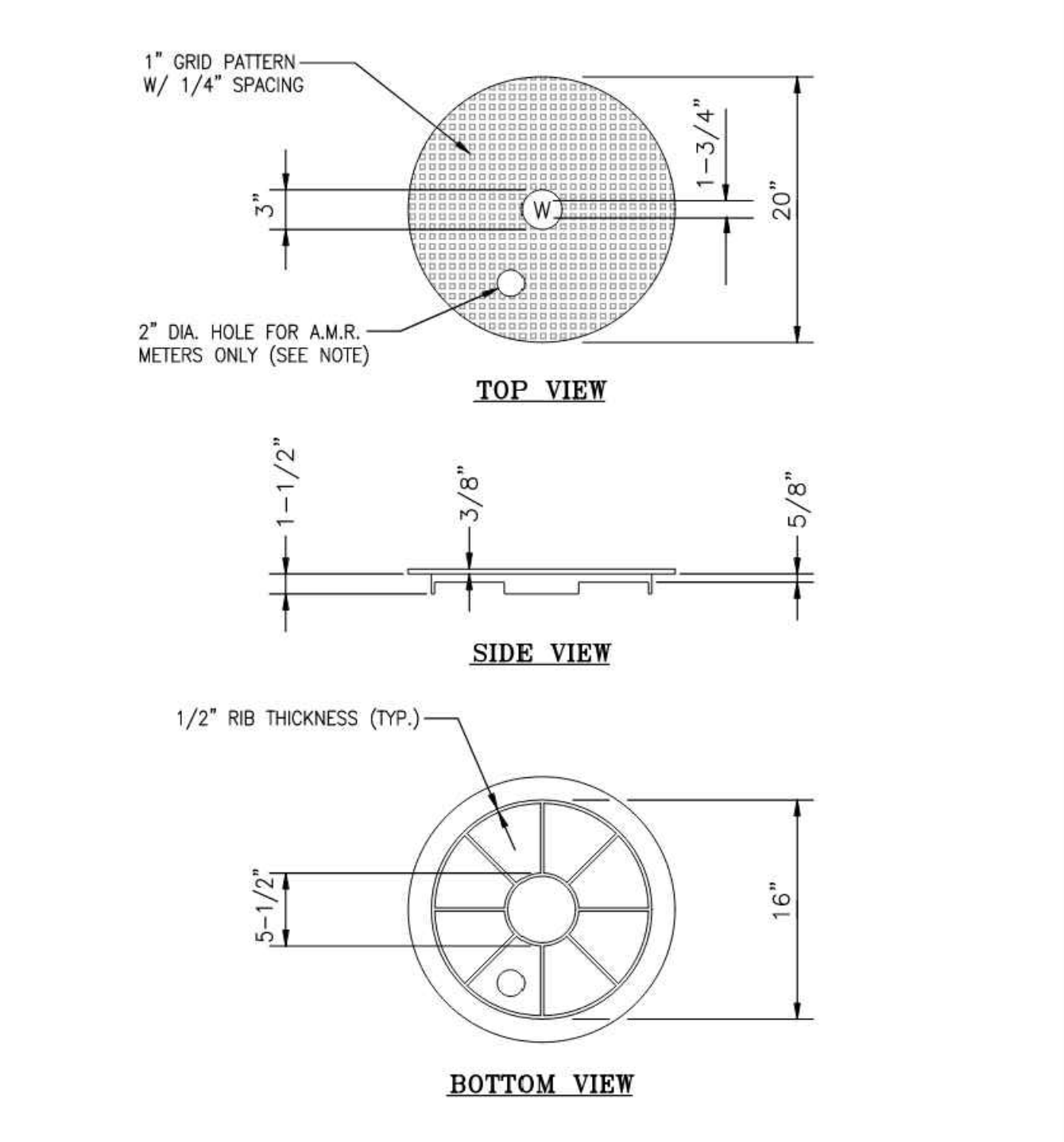
DATE: 6/20



**NOTE:**  
 COAT WITH PETROLATUM TAPE PER SECTION 13110 CATHODIC PROTECTION

	<b>FAIRFAX WATER STANDARD DETAILS</b>	SCALE: NOT TO SCALE
	<b>1" SERVICE RECONNECTION</b>	DRAWING NO.: <b>3</b>

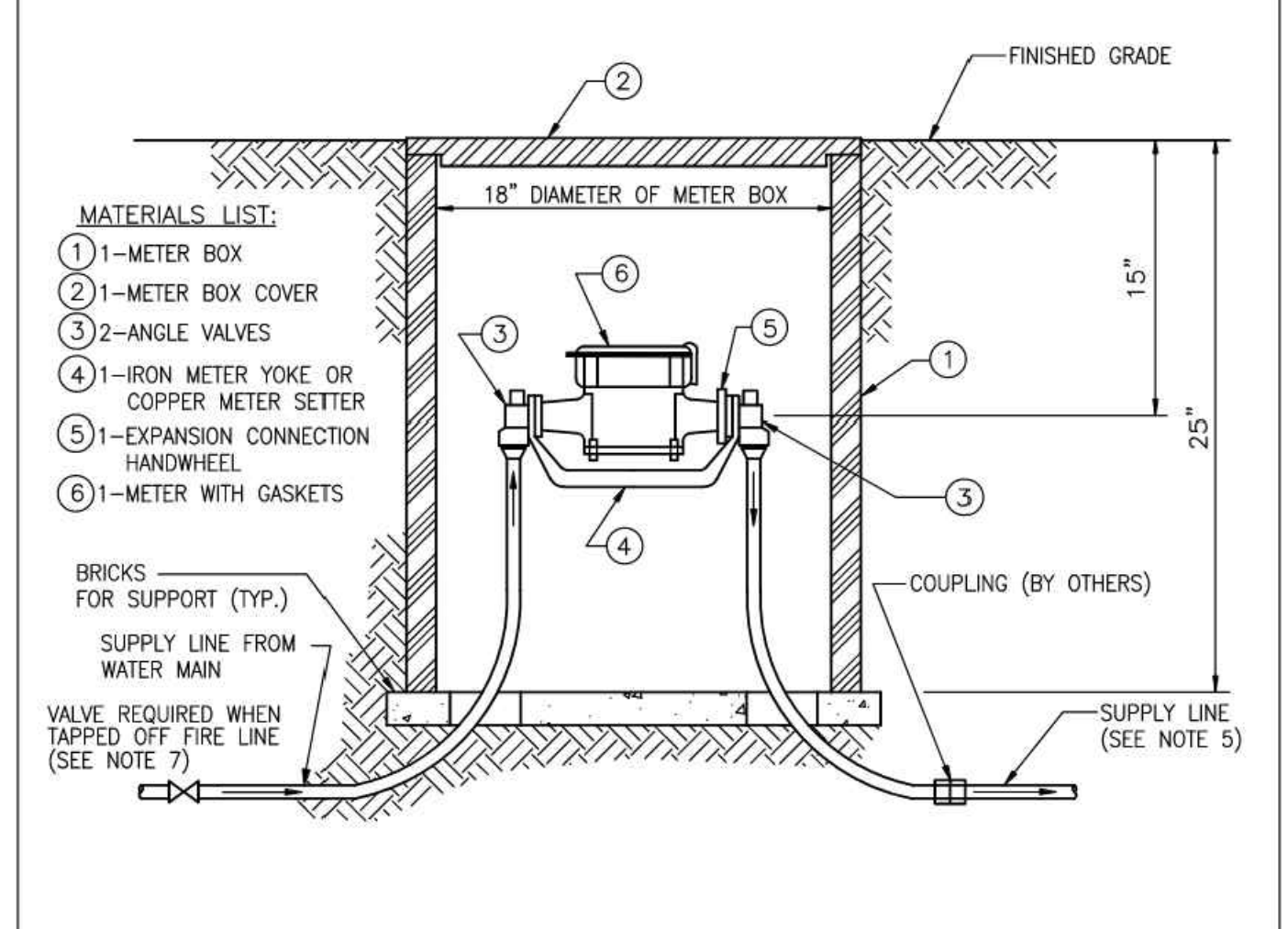
DATE: 6/20



**NOTE:**  
 INSTALL 2" DIAMETER HOLE BETWEEN RIBS FOR AUTOMATIC METER READING METERS WHERE INDICATED ON THE PLANS OR BY FAIRFAX WATER.

	<b>FAIRFAX WATER STANDARD DETAILS</b>	SCALE: NOT TO SCALE
	<b>CAST IRON METER BOX COVER</b>	DRAWING NO.: <b>4</b>

DATE: 6/20



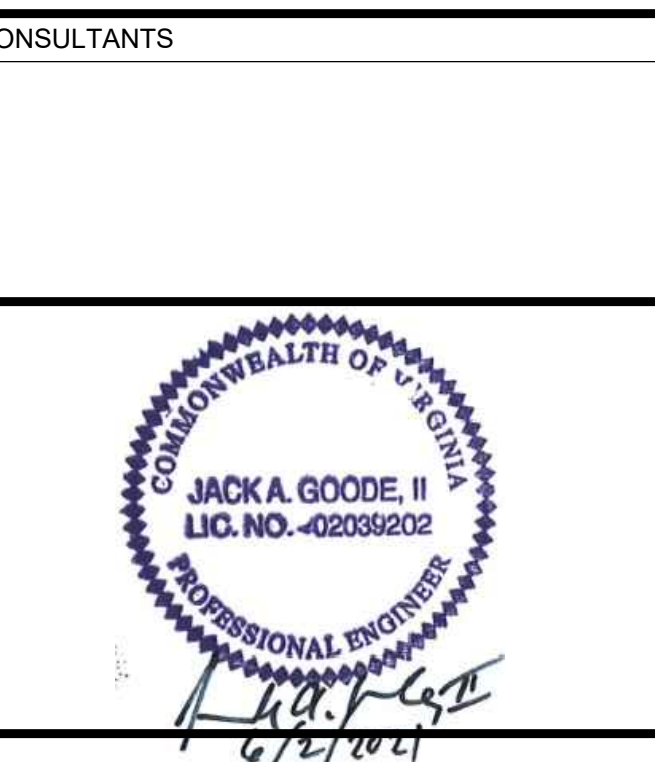
**MATERIALS LIST:**  
 ① 1-METER BOX  
 ② 1-METER BOX COVER  
 ③ 2-ANGLE VALVES  
 ④ 1-IRON METER YOKE OR COPPER METER SETTER  
 ⑤ 1-EXPANSION CONNECTION HANDWHEEL  
 ⑥ 1-METER WITH GASKETS

**NOTES:**  
 1. THE WATER METER BOX SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN A GREEN SPACE AND SO AS NOT TO BE A TRIP HAZARD.  
 2. WATER METER TO BE INSTALLED BY FAIRFAX WATER AS SHOWN IN THE DIAGRAM ABOVE. METER TO BE INSTALLED BY CUSTOMER WHEN TAPPED OFF FIRE LINE.  
 3. THE METER INSTALLATION WILL BE INSPECTED AND APPROVED BY FAIRFAX WATER. CALL 703-289-6402 FOR INSPECTION PRIOR TO PLACING LINE IN SERVICE.  
 4. FAIRFAX WATER TO SUPPLY ITEMS SHOWN IN MATERIALS LIST. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CUSTOMER.  
 5. BACKFLOW PREVENTION WILL BE REQUIRED IN ACCORDANCE WITH FAIRFAX COUNTY REGULATIONS.  
 6. FAIRFAX WATER MAINTAINS THE SUPPLY LINE BETWEEN THE METER AND THE MAIN, METER, METER BOX, AND METER BOX COVER ONLY. FAIRFAX WATER WILL NOT MAINTAIN SUPPLY LINE WHEN TAPPED OFF FIRE LINE.  
 7. A 3" MINIMUM GATE VALVE WITH A 2" OPERATING NUT MUST BE INSTALLED ON THE SERVICE LINE WHEN TAPPED OFF THE FIRE LINE.  
 8. NO STRUCTURES, POLES, SIGN POSTS, TREES OR SHRUBS TO BE INSTALLED WITHIN FOUR FEET OF METER CROCK.

	<b>FAIRFAX WATER STANDARD DETAILS</b>	SCALE: NOT TO SCALE
	<b>EXTERIOR METER INSTALLATION 5/8" THROUGH 1" METER SIZES</b>	DRAWING NO.: <b>6</b>

DATE: 6/20

**AMT**  
 A. MORTON THOMAS AND ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 800 KING FARM BOULEVARD, 4TH FLOOR  
 ROCKVILLE, MD 20850  
 PHONE (301) 881-2545 | FAX (301) 881-0814  
 EMAIL: AMT1@AMTENGINEERING.COM



**HALLMAN ST. SW SIDEWALK DESIGN**  
 FAIRFAX, VA 22030

**TRANSPORTATION DIVISION, PUBLIC WORKS**  
 CITY OF FAIRFAX (CITY)  
 10455 ARMSTRONG STREET  
 FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION

PROJECT NO:	17-0226.008
SCALE:	N/A
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

**SITE DETAILS**

**CS-8**



A. MORTON THOMAS AND ASSOCIATES, INC.  
CONSULTING ENGINEERS  
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CONSULTANTS



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION

PROJECT NO: 17-0226.008

SCALE: 1"=10'

DESIGNED BY: JAA

DRAWN BY: JES

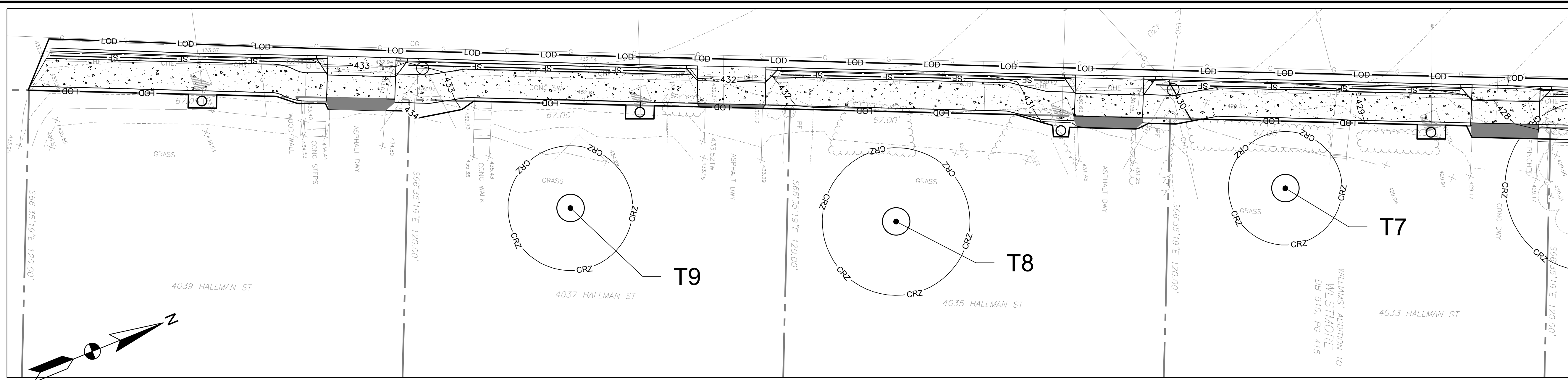
CHECKED BY: WJP/JAG

SHEET TITLE

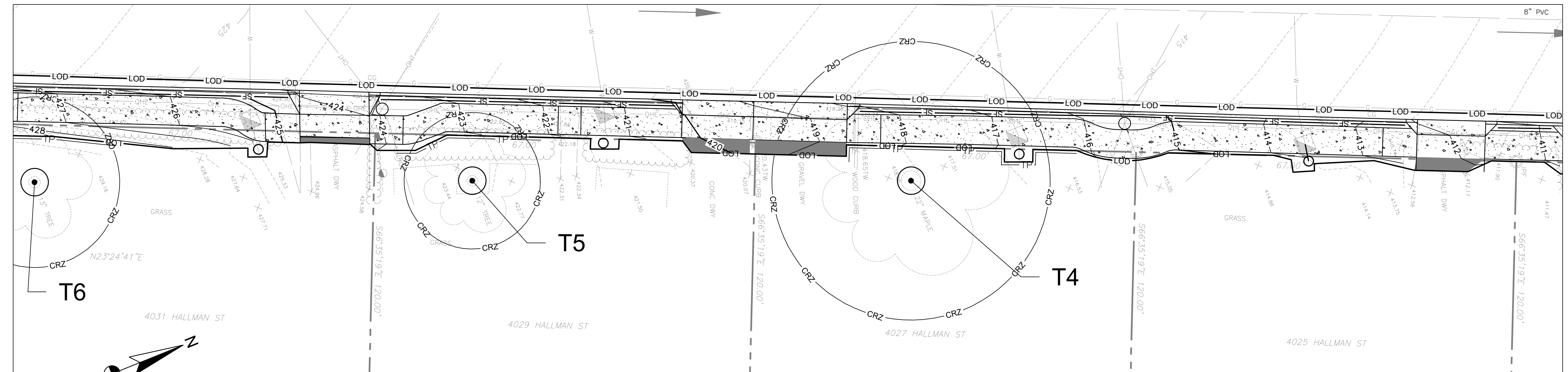
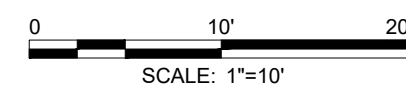
EROSION AND SEDIMENT CONTROL PLAN

ES-1

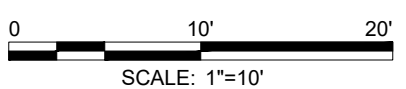
SHEET 11 OF 25



ENLARGED VIEW - 1



ENLARGED VIEW - 2



**SEQUENCE OF CONSTRUCTION NARRATIVE**

1. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO START OF CONSTRUCTION.
2. CITY OF FAIRFAX APPROVAL REQUIRED FOR EROSION CONTROL PRIOR TO CONTRACTOR BEGINNING ANY LAND DISTURBING ACTIVITIES. CITY OF FAIRFAX INSPECTOR HAS THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROL AS NEEDED IN THE FIELD, AS SITE CONDITIONS WARRANT.
3. INSTALL MAINTENANCE OF TRAFFIC MEASURES PER SHEET 22.
4. CLEAR AND GRUB AND INSTALL PERIMETER E&S CONTROLS.
5. BEGIN DEMOLITION OF SIDEWALKS AND ROUGH GRADING OUTSIDE OF DRIVEWAY APRONS.
6. ALL DRIVEWAY APRON WORK TO BE COMPLETED WITHOUT RESTRICTING ACCESS TO THE PROPERTY FOR MORE THAN ONE DAY. ON STREET PARKING TO BE PROVIDED FOR THE RESIDENTIAL PROPERTIES DURING APRON CONSTRUCTION.
7. START RE-VEGETATION AS AREAS ARE BROUGHT TO GRADE OR STAND IDLE FOR MORE THAN SEVEN (7) DAYS. INSTALL LANDSCAPING PLANTINGS AND SEEDINGS AS DESIGNATED ON LANDSCAPE PLAN.
8. AS SITE IS BROUGHT TO FINISHED GRADE, STABILIZE WITHIN SEVEN (7) DAYS.
9. STABILIZE ALL DISTURBED AREAS WITH PERMANENT VEGETATION FOLLOWING LANDSCAPE PLAN.
10. ONCE UPSTREAM AREAS ARE STABILIZED, INSTALL STORMWATER FACILITY AND CONNECT TO EXISTING STRUCTURE.
11. WHEN SITE IS STABILIZED AND WITH THE APPROVAL OF THE CITY OF FAIRFAX INSPECTOR, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL.
12. COMPLETE A PUNCH-LIST WALK THROUGH OF ENTIRE SITE WITH CITY OF FAIRFAX INSPECTOR.

**EROSION CONTROL NOTES:**

1. CONTRACTOR SHALL PREVENT TRACKING MUD, DIRT AND DEBRIS ONTO PRIVATE AND PUBLIC STREETS.
2. THE TOTAL DISTURBED AREA IS 0.1704-ACRES +/-.
3. FILTER FABRIC SHALL BE USED FOR MATERIAL STORAGE ON PAVED SURFACES.

**EROSION CONTROL LEGEND**

TITLE	KEY	SYMBOL	STD. & SPEC. NUMBER*
INLET PROTECTION	IP		3.07
SILT FENCE	SF		3.05
TREE PROTECTION FENCE	TP		3.38
LIMITS OF DISTURBANCE	LOD		

\*VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK STD. & SPEC.

CONSULTANTS

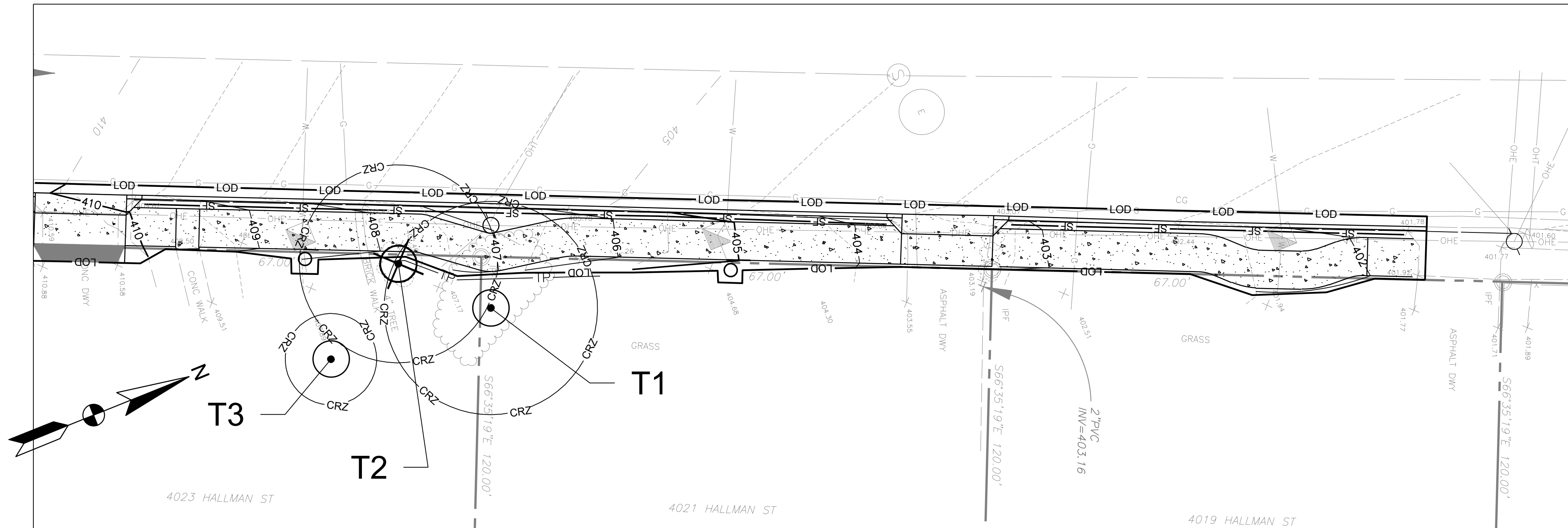


*Handwritten signature and date: J.A. Goode, 6/21/2021*

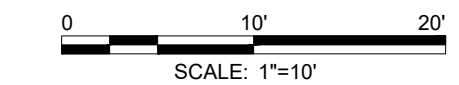


HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

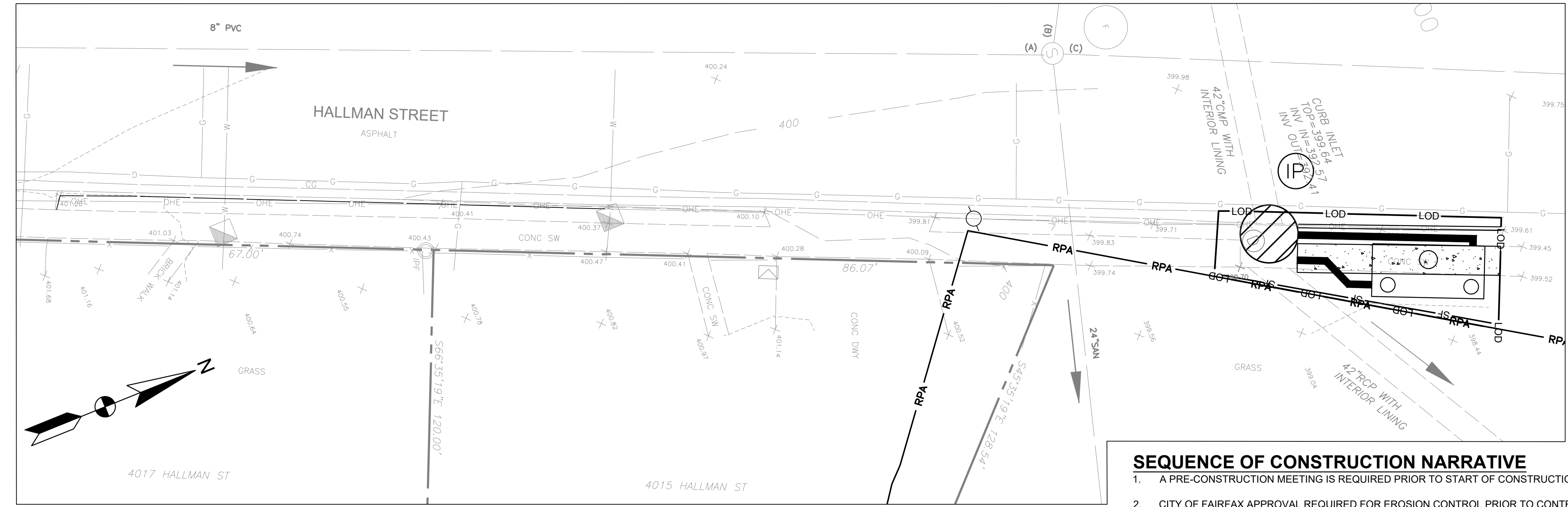
TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630



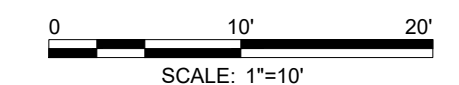
ENLARGED VIEW - 3



SCALE: 1"=10'



ENLARGED VIEW - 4



SCALE: 1"=10'

TITLE	KEY	SYMBOL	STD. & SPEC. NUMBER*
INLET PROTECTION	IP		3.07
SILT FENCE	SF		3.05
TREE PROTECTION FENCE	TP		3.38
LIMITS OF DISTURBANCE			

\*VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK STD. & SPEC.

**EROSION CONTROL NOTES:**

- CONTRACTOR SHALL PREVENT TRACKING MUD, DIRT AND DEBRIS ONTO PRIVATE AND PUBLIC STREETS.
- THE TOTAL DISTURBED AREA IS 0.1704-ACRES +/-.
- FILTER FABRIC SHALL BE USED FOR MATERIAL STORAGE ON PAVED SURFACES.

**SEQUENCE OF CONSTRUCTION NARRATIVE**

- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO START OF CONSTRUCTION.
- CITY OF FAIRFAX APPROVAL REQUIRED FOR EROSION CONTROL PRIOR TO CONTRACTOR BEGINNING ANY LAND DISTURBING ACTIVITIES. CITY OF FAIRFAX INSPECTOR HAS THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROL AS NEEDED IN THE FIELD, AS SITE CONDITIONS WARRANT.
- INSTALL MAINTENANCE OF TRAFFIC MEASURES PER SHEET 22.
- CLEAR AND GRUB AND INSTALL PERIMETER E&S CONTROLS.
- BEGIN DEMOLITION OF SIDEWALKS AND ROUGH GRADING OUTSIDE OF DRIVEWAY APRONS.
- ALL DRIVEWAY APRON WORK TO BE COMPLETED WITHOUT RESTRICTING ACCESS TO THE PROPERTY FOR MORE THAN ONE DAY. ON STREET PARKING TO BE PROVIDED FOR THE RESIDENTIAL PROPERTIES DURING APRON CONSTRUCTION.
- START RE-VEGETATION AS AREAS ARE BROUGHT TO GRADE OR STAND IDLE FOR MORE THAN SEVEN (7) DAYS. INSTALL LANDSCAPING PLANTINGS AND SEEDINGS AS DESIGNATED ON LANDSCAPE PLAN.
- AS SITE IS BROUGHT TO FINISHED GRADE, STABILIZE WITHIN SEVEN (7) DAYS.
- STABILIZE ALL DISTURBED AREAS WITH PERMANENT VEGETATION FOLLOWING LANDSCAPE PLAN.
- ONCE UPSTREAM AREAS ARE STABILIZED, INSTALL STORMWATER FACILITY AND CONNECT TO EXISTING STRUCTURE.
- WHEN SITE IS STABILIZED AND WITH THE APPROVAL OF THE CITY OF FAIRFAX INSPECTOR, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL.
- COMPLETE A PUNCH-LIST WALK THROUGH OF ENTIRE SITE WITH CITY OF FAIRFAX INSPECTOR.

MARK	DATE	DESCRIPTION

PROJECT NO:	17-0226.008
SCALE:	1"=10'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG
SHEET TITLE	

**EROSION AND SEDIMENT CONTROL PLAN**

ES-2

EROSION AND SEDIMENT CONTROL NARRATIVE

I. PROJECT DESCRIPTION:

AT THE DIRECTION OF CITY OF FAIRFAX, SIDEWALK IMPROVEMENTS HAVE BEEN PROPOSED ALONG THE SOUTHEAST SIDE OF HALLMAN STREET. APPROXIMATELY 0.1704 ACRES WILL BE DISTURBED.

II. EXISTING SITE CONDITIONS:

THE SITE CURRENTLY HAS A FEW SECTIONS OF SIDEWALK BETWEEN DRIVEWAYS WITHOUT ANY CLEAR WALKING PATH AND DRIVEWAYS ARE NOT BUILT PER CITY OF FAIRFAX STANDARDS.

III. ADJACENT PROPERTY:

THE PROJECT AREA IS BOUNDED TO THE NORTHWEST BY HALLMAN STREET AND TO THE SOUTHEAST BY RESIDENTIAL PROPERTIES. A PORTION OF THE ADJACENT RESIDENTIAL PROPERTIES WILL BE DISTURBED IN ORDER TO ACHIEVE A 5 FOOT WIDE SIDEWALK AROUND EXISTING UTILITY POLES.

IV. OFF-SITE AREAS:

NO OFF-SITE ACTIVITY IS ANTICIPATED WITH THIS PROJECT.

V. CRITICAL AREAS:

THERE ARE NO CRITICAL AREAS WITHIN LIMITS OF DISTURBANCE.

VI. SOIL

THE SITE SOILS CONSIST OF SOIL ID 95 (URBAN LAND), 105B/C (WHEATON-GLENELG COMPLEX), AND 108B (WHEATON-SUMERDUCK COMPLEX).

**95 - URBAN LAND.** THIS UNIT CONSISTS ENTIRELY OF MAN-MADE SURFACES SUCH AS PAVEMENT, CONCRETE OR ROOFTOP. URBAN LAND IS IMPERVIOUS AND WILL NOT INFILTRATE STORMWATER. ALL PRECIPITATION LANDING ON URBAN LAND WILL BE CONVERTED TO RUNOFF. URBAN LAND UNITS LIE ATOP DEVELOPMENT DISTURBED SOILS. RATINGS FOR THIS UNIT ARE NOT PROVIDED.

**105 - WHEATON-GLENELG COMPLEX.** THIS COMPLEX IS A MIXTURE OF THE DEVELOPMENT-DISTURBED WHEATON SOIL AND THE NATURAL GLENELG SOIL. THE COMPLEX OCCURS IN UPLAND AREAS OF THE PIEDMONT WITH MICACEOUS SCHIST AND PHYLLITE BEDROCK THAT HAVE BEEN DEVELOPED, BUT RETAIN A GOOD PORTION OF UNDISTURBED SOIL. WHEATON SOIL WILL BE CLUSTERED AROUND FOUNDATIONS, STREETS, SIDEWALKS, PLAYING FIELDS AND OTHER GRADED AREAS. GLENELG SOIL WILL BE FOUND UNDER OLDER VEGETATION IN UNGRADED BACK AND FRONT YARDS AND COMMON AREAS.

**108 - WHEATON-SUMERDUCK COMPLEX.** THIS COMPLEX IS A MIXTURE OF THE DEVELOPMENT-DISTURBED WHEATON SOIL AND THE NATURAL SUMERDUCK SOIL. THE COMPLEX OCCURS NEAR FLOODPLAINS IN THE AREAS OF THE PIEDMONT WITH MICACEOUS SCHIST AND PHYLLITE BEDROCK THAT HAVE BEEN DEVELOPED, BUT RETAIN A GOOD PORTION OF UNDISTURBED SOIL. WHEATON SOIL WILL BE CLUSTERED AROUND FOUNDATIONS, STREETS, SIDEWALKS, PLAYING FIELDS AND OTHER GRADED AREAS. SUMERDUCK SOIL WILL BE FOUND ALONG UNDISTURBED AREAS WITHIN THE BORDER OF THE FLOODPLAIN.

VII. EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE HANDBOOK AND FAIRFAX PUBLIC FACILITIES MANUAL. THE MINIMUM STANDARDS OF THE VESCR SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED BY A VARIANCE.

A. STRUCTURAL PRACTICES

- SILT FENCE - 3.05
- INLET PROTECTION - 3.07
- TREE PRESERVATION AND PROTECTION - 3.38

B. VEGETATIVE PRACTICES

- TOPSOIL (STOCKPILE)- 3.30
- TEMPORARY SEEDING- 3.31 (SUBSTITUTE NATIVE SPECIES FOR NON-NATIVE INVASIVE SPECIES LISTED IN VESCH STANDARDS, AS DESCRIBED HERE: <https://www.deq.virginia.gov/portals/0/deq/water/publications/nativeinvasivefaq.pdf>)
- PERMANENT SEEDING- SEED MIXES TO BE PROVIDED AS SPECIFIED IN THE LANDSCAPE SHEETS OF THIS PLAN SET

C. MANAGEMENT STRATEGIES

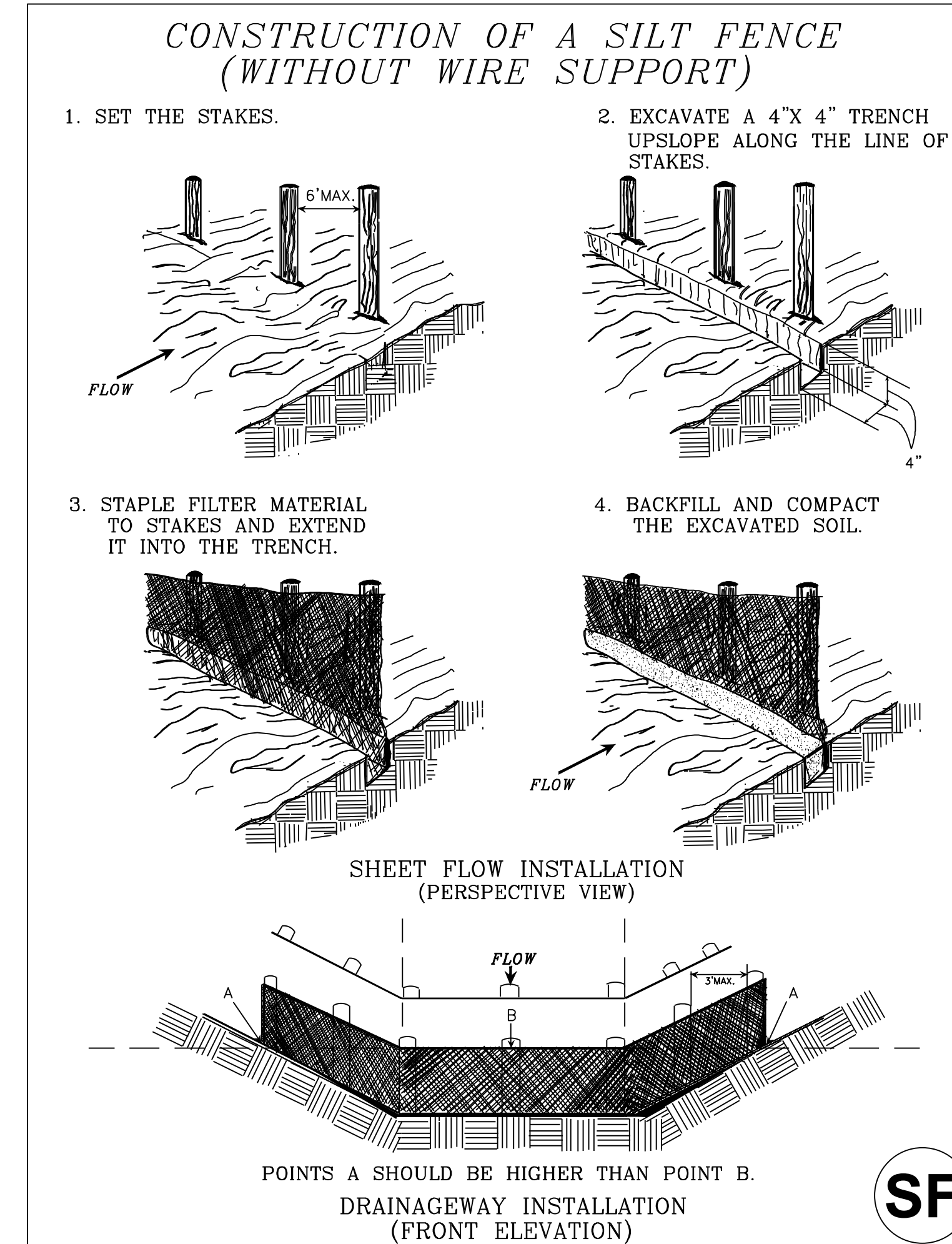
1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
  2. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE A FIRST STEP IN THE CONSTRUCTION.
  3. OTHER MEASURES SHALL BE INSTALLED AND INSPECTED AND APPROVED BY CITY OF FAIRFAX PRIOR TO WORK PROGRESSING INTO NEW AND UNPROTECTED AREAS.
  4. TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.
  5. THE PROJECT SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
  6. AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE CLEANED AND REMOVED. NO EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED WITHOUT APPROVAL OF THE CITY OF FAIRFAX INSPECTOR.
- D. PERMANENT STABILIZATION
- ALL AREAS DISTURBED BY CONSTRUCTION WHICH DO NOT RECEIVE HARDSCAPE MATERIAL SHALL BE STABILIZED WITH PERMANENT SEEDING AS SPECIFIED IN THE LAND CONSERVATION NOTES ON THIS SHEET. ALL SEEDING SHALL BE TACKED AND MULCHED AND PLACED IMMEDIATELY AFTER REACHING FINISHED GRADE.

VIII. STORMWATER MANAGEMENT

THE PROJECT WILL NOT INCREASE RUNOFF FROM THE SITE.

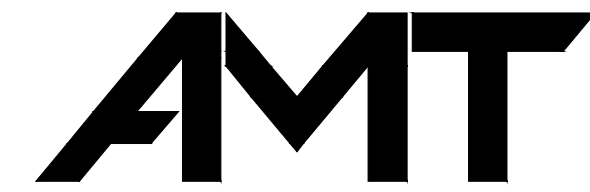
IX. MAINTENANCE

- IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING WILL BE CHECKED IN PARTICULAR:
1. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
  2. THE SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE A GOOD STAND IS MAINTAINED. AREAS SHOULD BE RE-SEDED AS NEEDED.
  3. AFTER ESTABLISHMENT OF GOOD STAND OF VEGETATION IN SEEDED AREAS, INSPECTIONS SHALL BE CONDUCTED ON A WEEKLY BASIS TO ENSURE THE SEEDED AREAS ARE NOT DAMAGED. ANY AREA WHERE THE VEGETATION IS DEAD, OR IS OTHERWISE DAMAGED, SHALL BE RESEDED IMMEDIATELY.
- X. SEQUENCE OF CONSTRUCTION
- FOR DETAILED CONSTRUCTION SEQUENCE SEE EROSION AND SEDIMENT CONTROL PLAN SHEET.



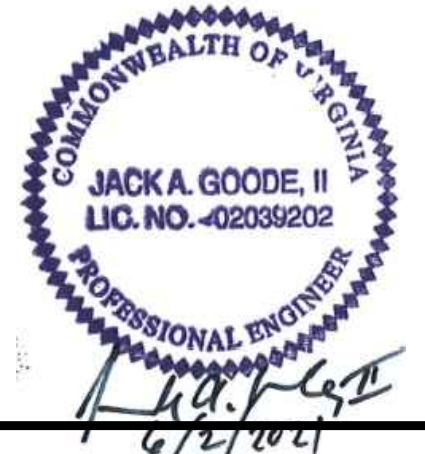
SOURCE: Adapted from *Installation of Straw and Fabric Filter Barriers for Sediment Control*, VA, DSWC Sherwood and Wyant

02 SILT FENCE  
NTS



A. MORTON THOMAS AND ASSOCIATES, INC.  
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CONSULTANTS



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
SCALE:	N/A
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

EROSION AND SEDIMENT  
CONTROL NARRATIVE  
AND DETAILS

ES-3



A. MORTON THOMAS AND ASSOCIATES, INC.  
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MARK	DATE	DESCRIPTION

PROJECT NO: 17-0226.008

SCALE: 1"=10'

DESIGNED BY: JAA

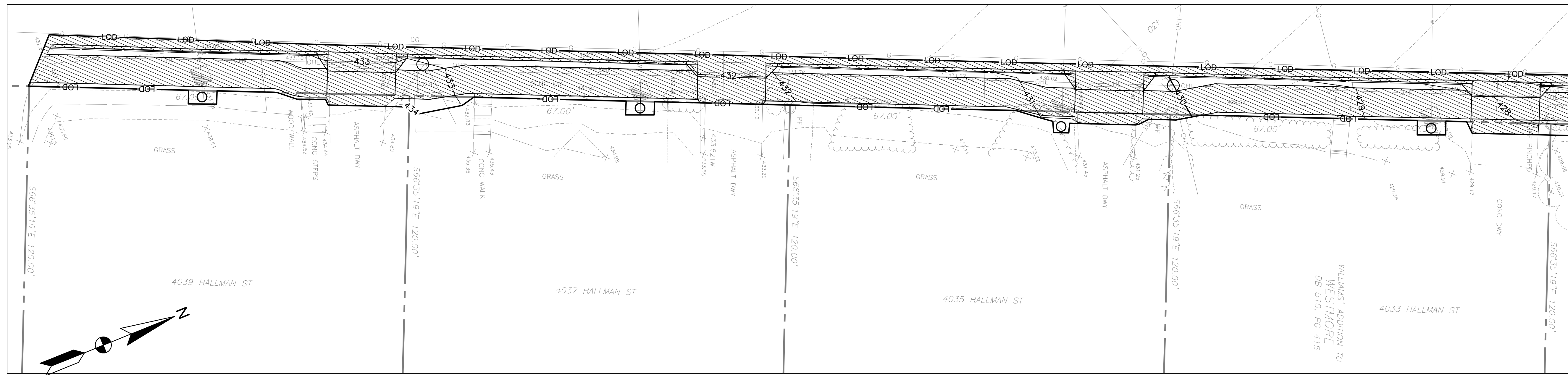
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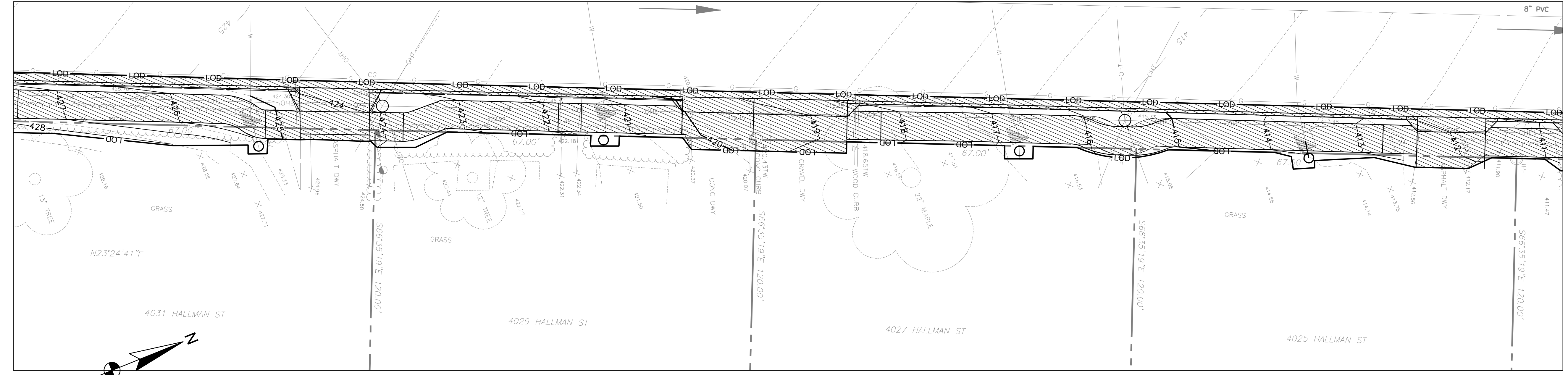
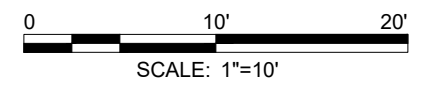
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STORMWATER  
 MANAGEMENT PLAN

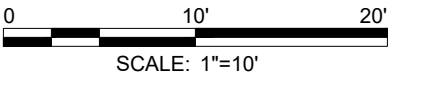
CW-1



ENLARGED VIEW - 1



ENLARGED VIEW - 2



LEGEND:

 PROPOSED IMPERVIOUS AREA: 5,645 SF, 0.1296 AC.

 EXISTING IMPERVIOUS AREA: 2,740 SF, 0.0629 AC.

 LOD LIMIT OF DISTURBANCE: 7,423 SF, 0.1704 AC.

 CRZ CRITICAL ROOT ZONE



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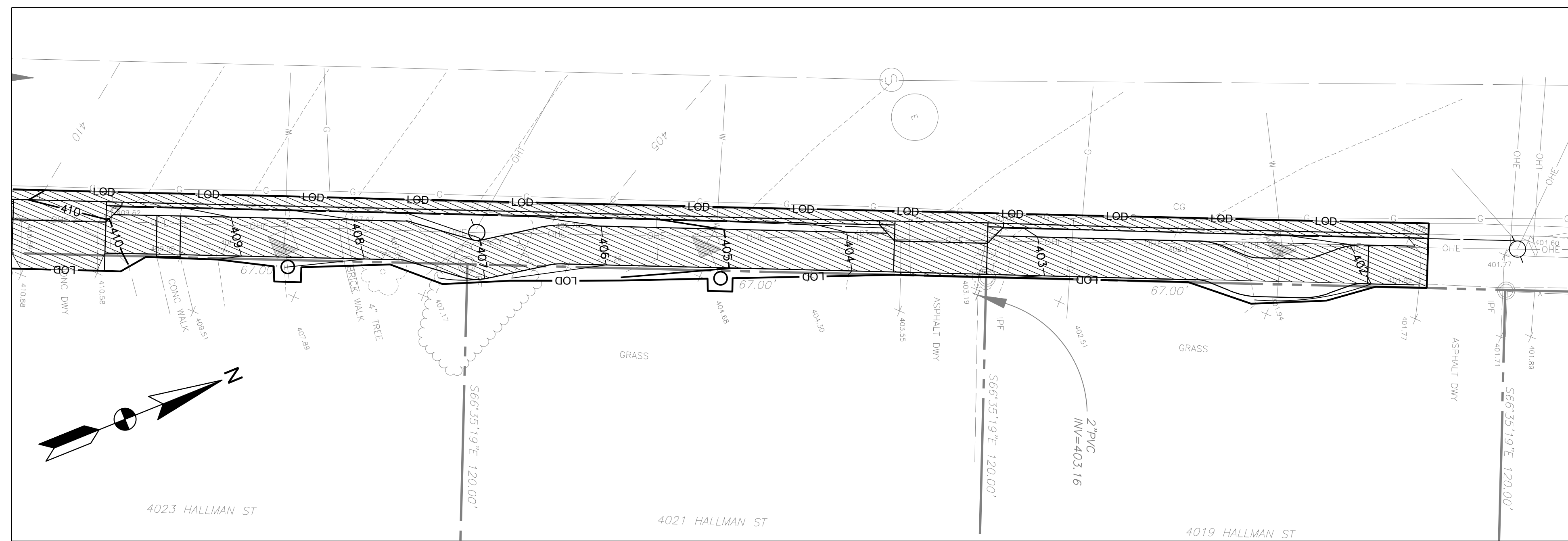


*Jack A. Goode, II*  
 6/2/2021



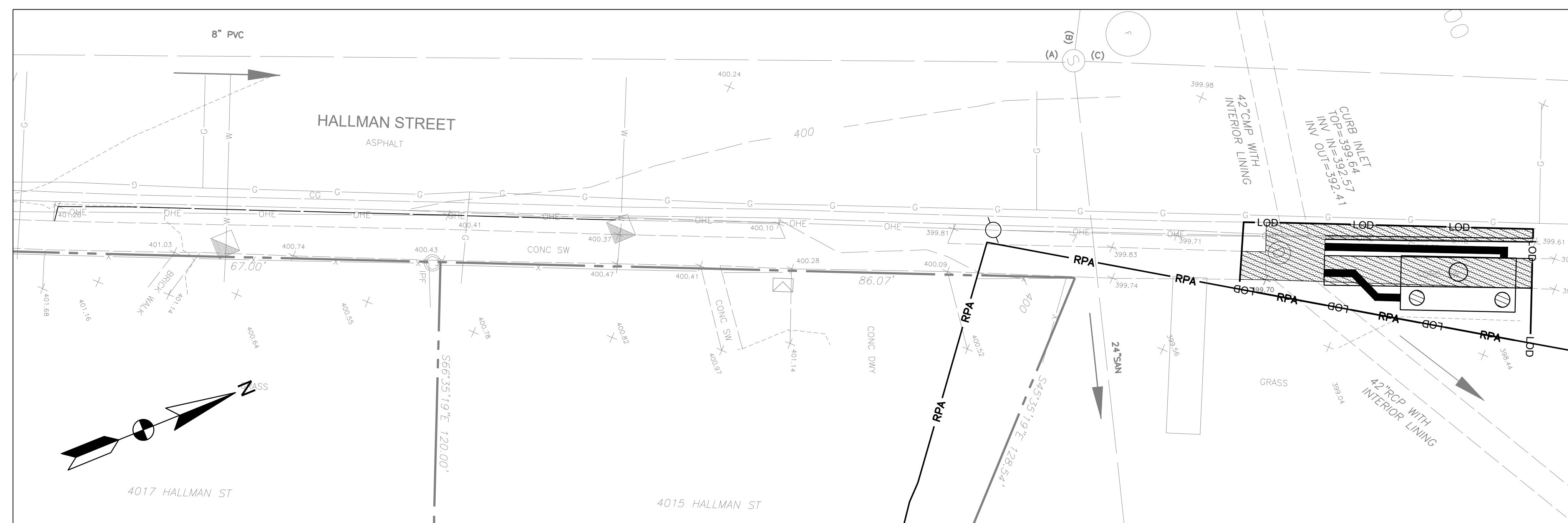
HALLMAN ST. SW  
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 CITY OF FAIRFAX (CITY)  
 10455 ARMSTRONG STREET  
 FAIRFAX, VIRGINIA 22030-3630



ENLARGED VIEW - 3

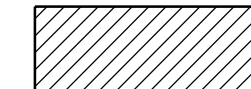
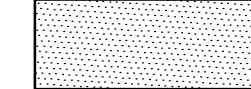
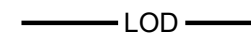
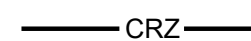
0 10' 20'  
 SCALE: 1"=10'



ENLARGED VIEW - 4

0 10' 20'  
 SCALE: 1"=10'

LEGEND:

-  PROPOSED IMPERVIOUS AREA: 5,645 SF, 0.1296 AC.
-  EXISTING IMPERVIOUS AREA: 2,740 SF, 0.0629 AC.
-  LOD LIMIT OF DISTURBANCE: 7,423 SF, 0.1704 AC.
-  CRZ CRITICAL ROOT ZONE

MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
SCALE:	1"=10'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE

STORMWATER  
 MANAGEMENT PLAN

CW-2







A. MORTON THOMAS AND ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 800 KING FARM BOULEVARD, 4TH FLOOR  
 ROCKVILLE, MD 20850  
 PHONE (301) 881-2545 | FAX (301) 881-0814  
 EMAIL: AMT1@AMTENGINEERING.COM

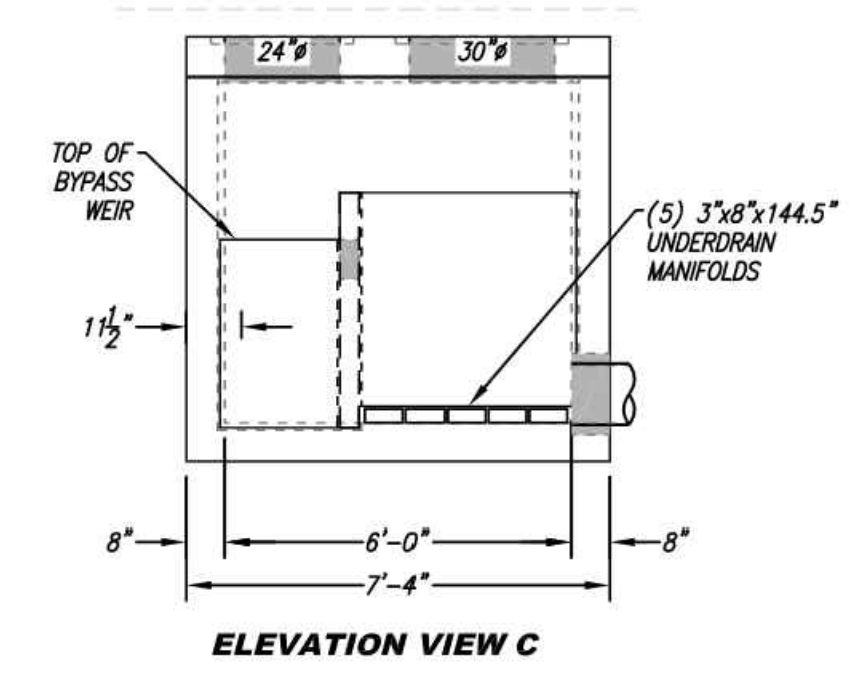
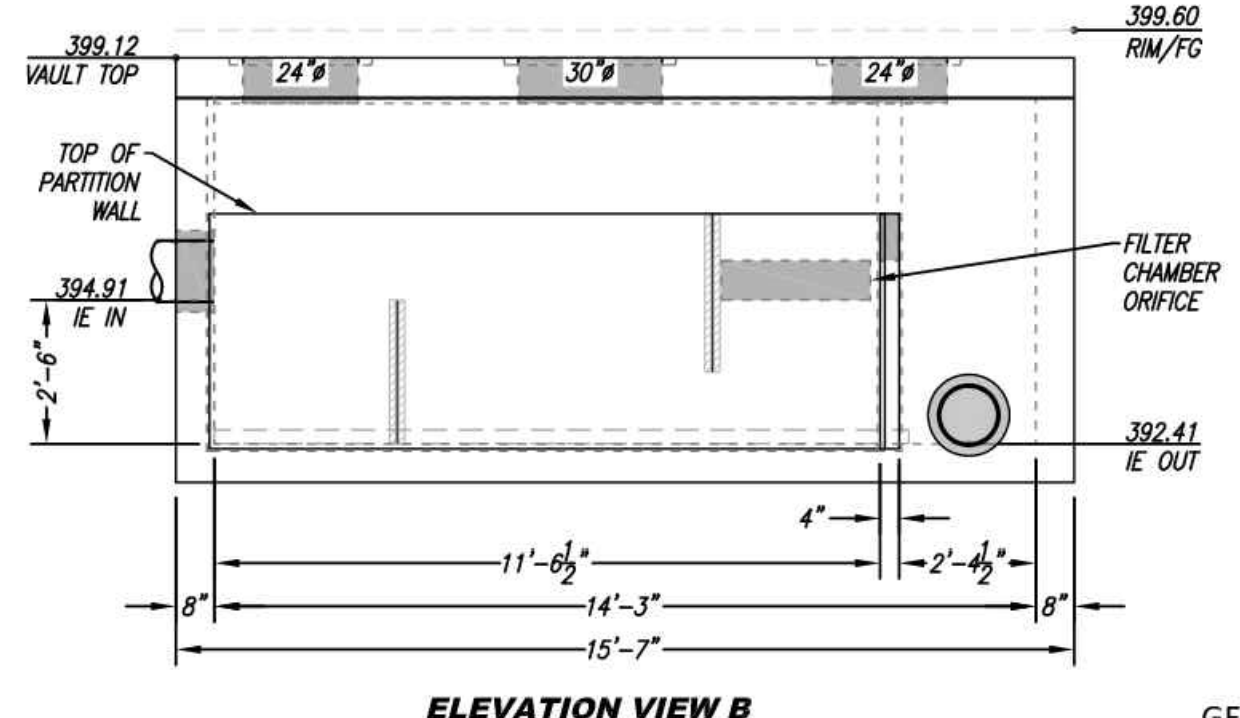
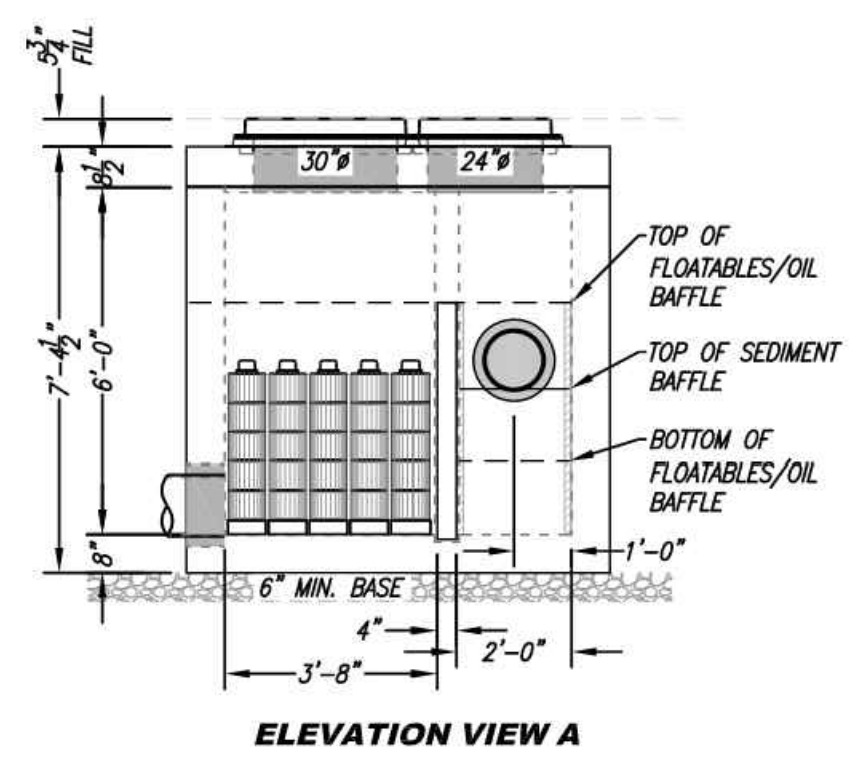
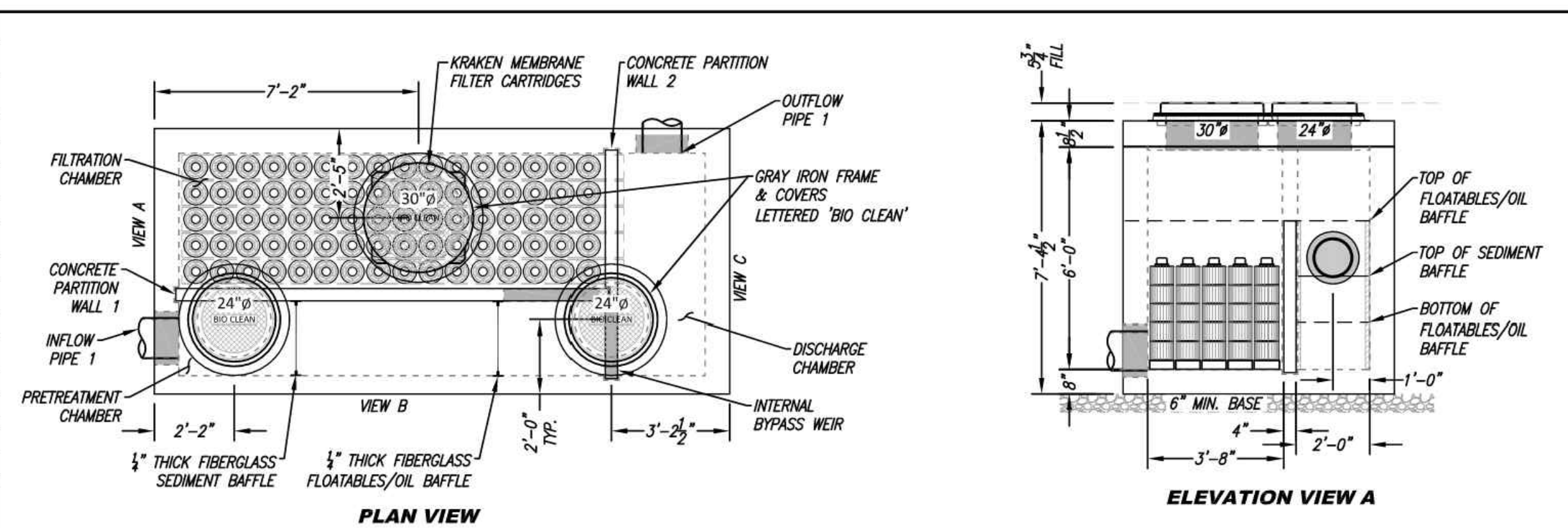
CONSULTANTS



HALLMAN ST. SW  
 SIDEWALK DESIGN  
 FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
 PUBLIC WORKS  
 CITY OF FAIRFAX (CITY)  
 10455 ARMSTRONG STREET  
 FAIRFAX, VIRGINIA 22030-3630

SITE SPECIFIC DATA*				
PROJECT NUMBER	11864			
PROJECT NAME	HALLMAN STREET SIDEWALK IMPROVEMENTS			
PROJECT LOCATION	FAIRFAX, VA			
STRUCTURE ID	KF-6-12			
WATER QUALITY FLOW RATE (CFS)	1.48			
PEAK FLOW RATE (CFS)	OFFLINE			
PEAK STORM DURATION (YEARS)	N/A			
PIPE DATA		I.E.	MATERIAL	DIAMETER
INFLOW PIPE 1	394.91		PVC	12"
OUTFLOW PIPE 1	392.41		PVC	12"
RIM ELEVATION	399.60			
SURFACE LOADING REQUIREMENT	HS20			
FRAME AND COVER	(2) #24"; (1) #30"			
CORROSIVE SOIL CONDITIONS	NA			
KNOWN GROUNDWATER ELEVATION	NA			
NOTES: CONCEPT ONLY, NOT FOR CONSTRUCTION.				
*PER ENGINEER OF RECORD				
KRAKEN FILTER PERFORMANCE DATA				
CARTRIDGE HEIGHT (IN)	30.75			
CARTRIDGE FLOW RATE (GPM)	8.50			
NUMBER OF CARTRIDGES	80			
TOTAL TREATMENT FLOW RATE (CFS)	1.52			
SEDIMENT STORAGE CAPACITY (CF)	34.08			
INSTALLATION NOTES				
1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE KRAKEN FILTER UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.				
2. MANUFACTURER RECOMMENDS A 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.				
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH).				
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.				
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, AND MANHOLES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.				
1:40 SCALE				



GENERAL NOTES

- BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 10,383,495; 9,824,160; 10,143,765; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING.

PROPRIETARY AND CONFIDENTIAL:  
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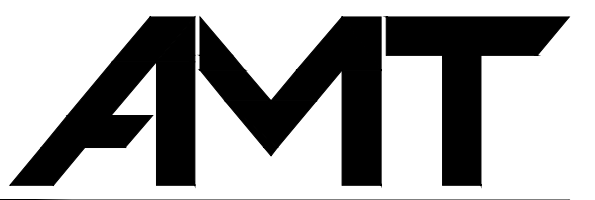


KRAKEN KF-6-14.25-72  
 MEMBRANE FILTRATION SYSTEM WITH PRETREATMENT  
 CUSTOM DETAIL

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT NO:	17-0226.008
SCALE:	N/A
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE  
**STORMWATER  
 MANAGEMENT DETAILS**  
**CW-4**  
 SHEET 17 OF 25



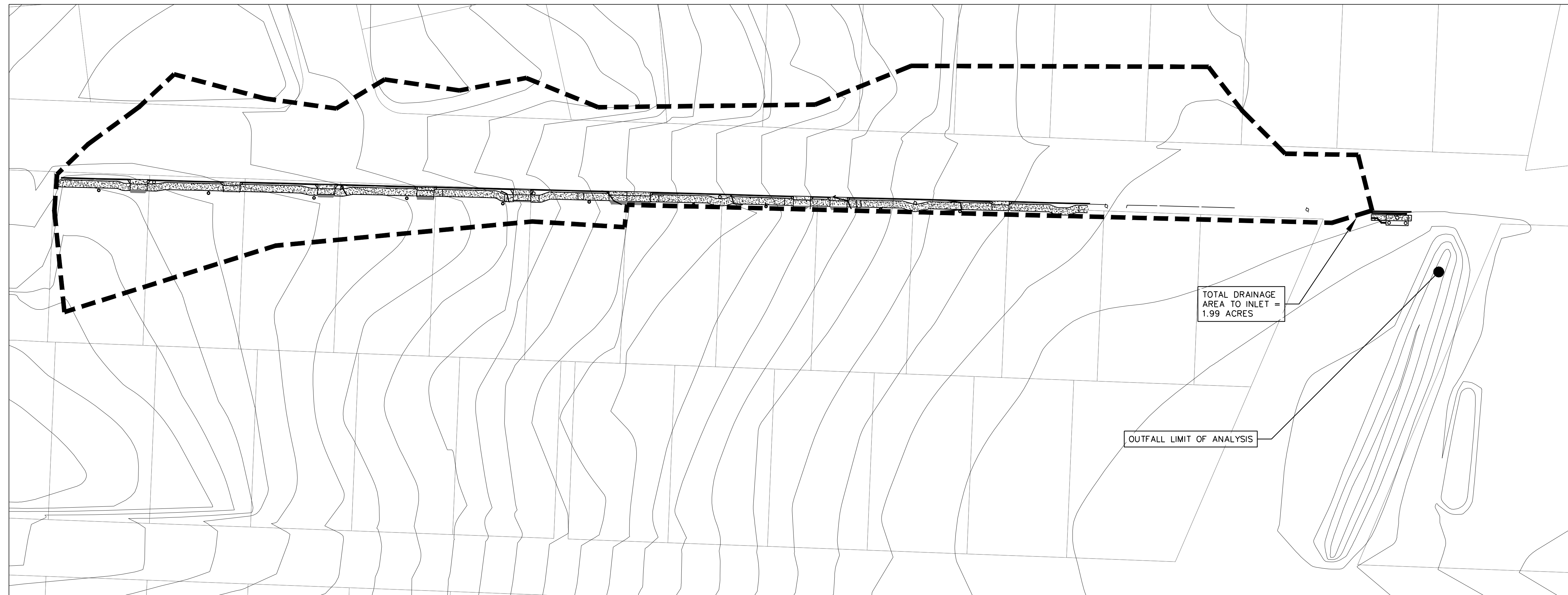
A. MORTON THOMAS AND ASSOCIATES, INC.  
CONSULTING ENGINEERS  
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PHONE (301) 881-2545 | FAX (301) 881-0814  
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS

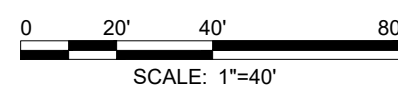


HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630



DRAINAGE AREA MAP



LEGEND:

- DRAINAGE AREA BOUNDARY

MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
SCALE:	1"=40'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE

DRAINAGE AREA MAP

CW-5



A. MORTON THOMAS AND ASSOCIATES, INC.  
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EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS



J.A. Goode, II  
6/24/2021



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
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SCALE:	1"=10'
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DESIGNED BY:	JAA
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DRAWN BY:	JES
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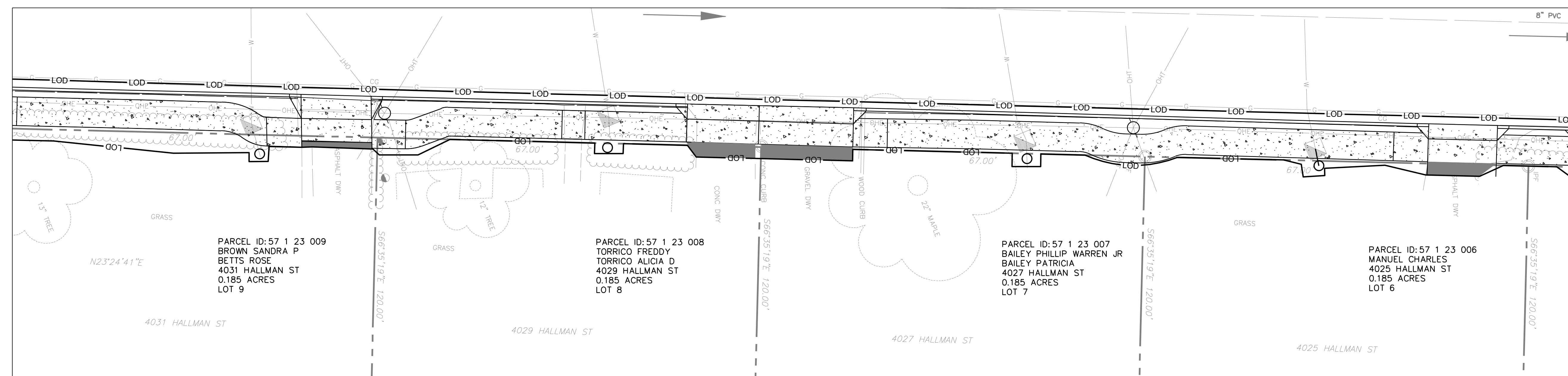
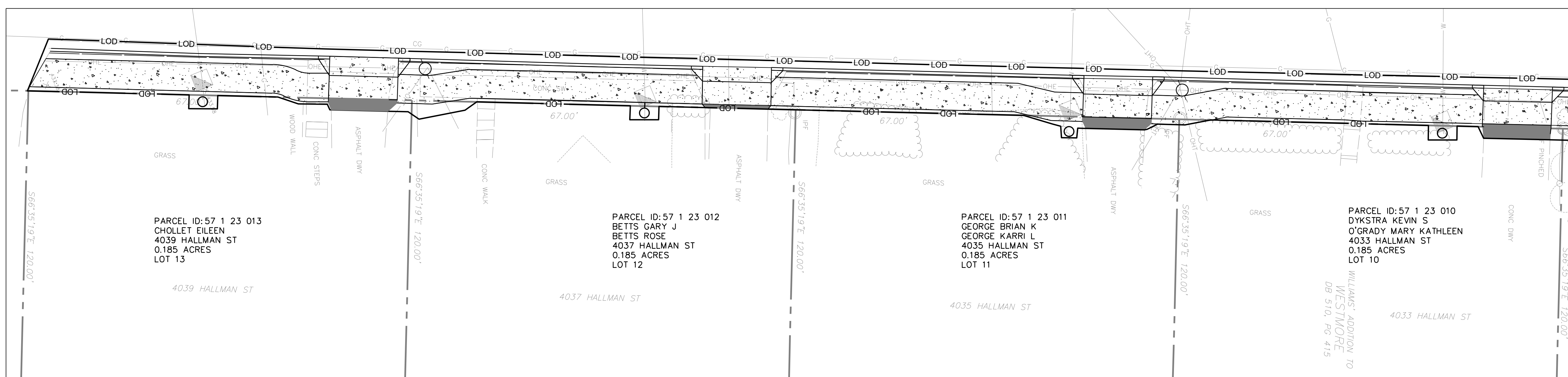
CHECKED BY:	WJP/JAG
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SHEET TITLE

RIGHT OF WAY PLAN

RW1.1

SHEET 19 OF 25



# AMT

A. MORTON THOMAS AND ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
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 PHONE (301) 881-2545 | FAX (301) 881-0814  
 EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS

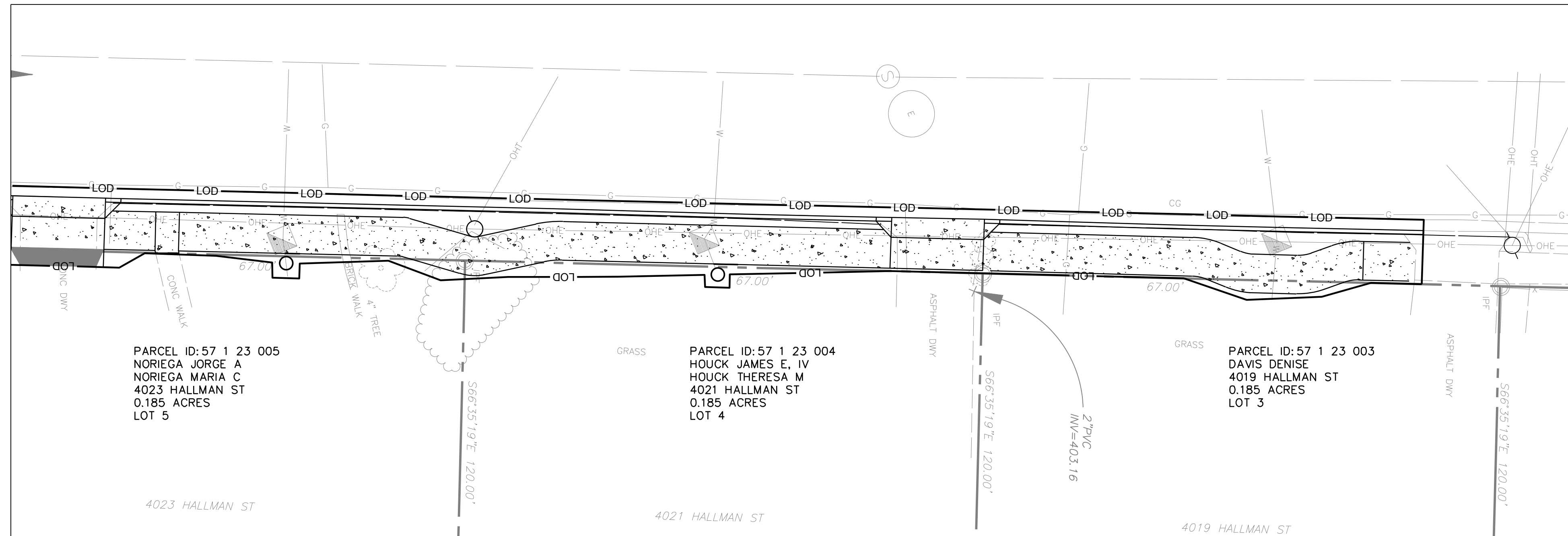


*Handwritten signature and date: J.A. Goode, II, 6/2/2024*

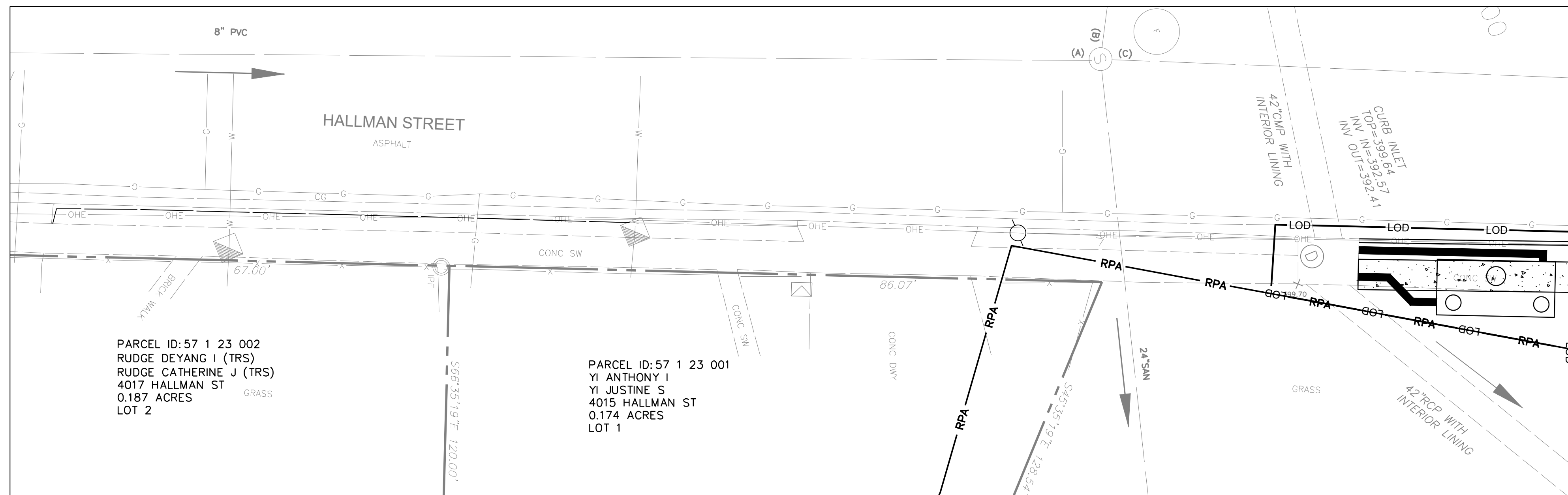
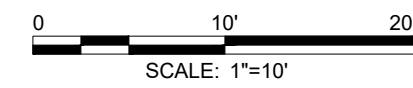


HALLMAN ST. SW  
 SIDEWALK DESIGN  
 FAIRFAX, VA 22030

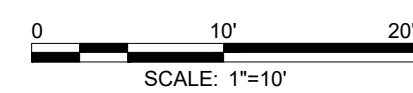
TRANSPORTATION DIVISION,  
 PUBLIC WORKS  
 CITY OF FAIRFAX (CITY)  
 10455 ARMSTRONG STREET  
 FAIRFAX, VIRGINIA 22030-3630



**ENLARGED VIEW - 3**



**ENLARGED VIEW - 4**



MARK	DATE	DESCRIPTION
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PROJECT NO:	17-0226.008
SCALE:	1"=10'
DESIGNED BY:	JAA
DRAWN BY:	JES
CHECKED BY:	WJP/JAG

SHEET TITLE

RIGHT OF WAY PLAN

RW1.2

SHEET 20 OF 25



**GENERAL NOTES**

- AS PART OF THE CITY OF FAIRFAX CITY PERMITTING PROCESS, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY FOR REVIEW AND APPROVAL. THE PLAN SHOULD SHOW THE GENERAL HANDLING OF TRAFFIC THROUGH THE WORK ZONE AND WILL BE DEVELOPED AT NO ADDITIONAL COST TO THE CITY. CONTRACTOR SHALL INCLUDE ESTIMATED DURATIONS, WORK HOURS, HAUL ROUTES, AND PROPOSED PARKING/STAGING FOR EACH CONSTRUCTION PHASE AS PART OF THE SUBMITTAL.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL. ALL TRAFFIC CONTROL SIGNS AND DEVICES, INCLUDING SPACINGS, SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE VIRGINIA SUPPLEMENT TO THE MUTCD.
- CONTRACTOR SHALL SUBMIT PROPER NOTIFICATION TO THE CITY IN COMPLIANCE WITH THE CITY OF FAIRFAX PERMITTING PROCESS, PRIOR TO THE INSTALLATION OF ANY TEMPORARY LANE CLOSURE MEASURES.
- DATES OF CLOSURES AND PROPOSED DETOUR ROUTES MUST BE SUBMITTED TO THE CITY AS PART OF THE MAINTENANCE OF TRAFFIC PLAN. PEDESTRIAN AND CYCLIST ACCESS MUST BE MAINTAINED AT ALL TIMES.
- ALLOWABLE HOURS FOR ALL LANE AND/OR SHOULDER CLOSURES SHALL BE IN ACCORDANCE WITH CITY AND VDOT LANE CLOSURES IN NOVA DISTRICT MEMORANDUM, DATED SEPTEMBER 29, 2016.
- ANY REQUEST FOR DEVIATION FROM THE ALLOWABLE LANE CLOSURE HOURS SHALL BE SUBMITTED TO THE CITY AND VDOT FOR REVIEW A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF WORK.
- LANE CLOSURES OR SHOULDER WORK SHALL NOT BEGIN IF HEAVY TRAFFIC OR SIGNIFICANT QUEUING AND BACKUPS ARE ALREADY PRESENT ALONG THE ROADWAY(S).
- CONTRACTOR SHALL CONTINUALLY MONITOR ALL LANE CLOSURES (AND/OR DETOUR ROUTES, IF APPLICABLE) AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT AND MAKE SPOT ADJUSTMENTS AS NEEDED/AVAILABLE TO EASE UNDUE BACKUPS, DELAYS, OR QUEUING AND REOPEN AVAILABLE LANES AS NECESSARY.
- ALL LANE AND/OR SHOULDER CLOSURE HOURS OF OPERATION CAN BE ADJUSTED/MODIFIED BY THE CITY AND VDOT DURING THE CONTRACT AT ANY TIME, AS NECESSARY, IF HEAVY VOLUME OR SIGNIFICANT QUEUING ROUTINELY DEVELOPS AS A RESULT OF THE PROJECT OR AS CITIZEN COMPLAINTS ARE RECEIVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROJECT LANE CLOSURE INFORMATION ON LCAMS AND VA TRAFFIC THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH IIM-0D-16-03, DATED DECEMBER 16, 2016.
- ALL LANE AND SHOULDER CLOSURES SHALL BE ENTERED INTO LCAMS AT LEAST TEN (10) DAYS IN ADVANCE OF THE PROPOSED LANE AND/OR SHOULDER CLOSURE AND NO LATER THAN CLOSE OF BUSINESS WEDNESDAY THE WEEK PRIOR TO THE CLOSURE STATING THE LOCATION, PURPOSE, DATE, TIME, AND DURATION OF CLOSURE. ANY CONFLICTS GENERATED FROM LCAMS SHALL BE RESOLVED NO LATER THAN CLOSE OF BUSINESS THURSDAY THE WEEK PRIOR TO THE CLOSURE.
- CONTRACTOR SHALL CONTACT THE VDOT NORTHERN REGION TRANSPORTATION OPERATIONS CENTER (TOC) 15-45 MINUTES PRIOR TO EXECUTING ALL LANE AND/OR SHOULDER CLOSURES AND CONTACT TOC ONCE WORK HAS BEEN COMPLETED AND LANE AND/OR SHOULDER CLOSURES HAVE BEEN REMOVED.
- CONTRACTOR SHALL NOTIFY AND/OR COORDINATE WITH THE VARIOUS LOCAL EMERGENCY SERVICES (AND SCHOOLS, DEPENDING ON TIME OF YEAR) OF ALL CLOSURES, TIMES, AND ANY DETOUR ROUTES FOR SITUATIONAL AWARENESS.
- THE CLEAR ZONE SHALL BE MAINTAINED FREE OF PARKED EQUIPMENT AND STORED MATERIAL OR PROTECTED AT THE END OF EACH DAY IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT PROPERTIES, INTERSECTIONS, SIDE STREETS, DRIVEWAYS, AND BUS STOPS DURING ALL PHASES OF CONSTRUCTION THROUGH THE SITE. PEDESTRIAN PATHS SHALL NOT BE BLOCKED BY TEMPORARY TRAFFIC CONTROL DEVICES OR CONSTRUCTION EQUIPMENT UNLESS AN APPROVED PEDESTRIAN DETOUR IS PROVIDED.
- MAINTAIN ACCESS TO RESIDENCES DURING CONSTRUCTION AT ALL TIMES. PROVIDE ALTERNATIVE INGRESS/EGRESS ROUTES WITH APPROVAL OF PROPERTY OWNER.
- ALL TRAFFIC CONTROL DEVICES AND SIGNS NECESSARY FOR THE TEMPORARY TRAFFIC CONTROL ARE TO BE FURNISHED, INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
- THE TRAFFIC CONTROL DEVICES SHOWN ON THESE PLANS ONLY INDICATE THE MINIMUM REQUIRED FOR TRAFFIC CONTROL MEASURES ON THIS PROJECT.
- ALL EXISTING SIGNAGE SHALL BE MAINTAINED IN PLACE DURING CONSTRUCTION. ANY EXISTING SIGNAGE THAT WILL BE IN CONFLICT WITH TRAFFIC CONTROL SIGNAGE SHALL BE COVERED FOR THE DURATION OF CONSTRUCTION OPERATIONS. ANY SIGNAGE NOT NECESSARY FOR THE MAINTENANCE OF TRAFFIC AND REMOVED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE STORED AND REINSTALLED BY THE CONTRACTOR IN THEIR ORIGINAL LOCATIONS / CONDITION UPON COMPLETION OF CONSTRUCTION OPERATIONS AND PRIOR TO REMOVAL OF MAINTENANCE OF TRAFFIC DEVICES, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE THE DATES OF INSTALLATION AND REMOVAL OF TRAFFIC CONTROL MEASURES AND LANE CLOSURES WITH THE CITY OF FAIRFAX AND VDOT.
- THE CONTRACTOR SHALL RELOCATE AND/OR ADD ADDITIONAL ROAD WORK AHEAD SIGNS IN ADVANCE OF THE PROJECT SHOULD TRAFFIC BACKUPS EXTEND OUTSIDE OF THE PLANNED MAINTENANCE OF TRAFFIC AREA. THE NEED FOR AND THE LOCATIONS OF ADDITIONAL SIGNAGE WILL BE AT THE DISCRETION OF THE CITY OF FAIRFAX, TRAFFIC ENGINEERING.
- ALL VEHICLES, EQUIPMENT, WORKERS, AND THEIR ACTIVITIES ARE PROHIBITED FROM THE LANE AREAS RESERVED FOR TRAFFIC.
- THE CONTRACTOR SHALL CHECK ALL TRAFFIC CONTROL MEASURE DEVICES AND WORK ZONES BEFORE, DURING, AND AFTER EACH WORK DAY TO ENSURE PROPER OPERATION. ON WEEKENDS, HOLIDAYS, OR ANY NON-WORKING DAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE TRAFFIC MAINTENANCE AND CONTROL DEVICES DAILY FOR PROPER OPERATION.
- CONTRACTOR SHALL REFER TO FIGURE TTC-1.1 OF THE LATEST VIRGINIA WORK AREA PROTECTION MANUAL.

**CONSTRUCTION NARRATIVE:**

- INSTALL TEMPORARY TRAFFIC CONTROL MEASURES PER FIGURES TTC-5.2 AND TTC-35.1 IN THE LATEST VIRGINIA WORK AREA PROTECTION MANUAL PRIOR TO COMMENCING WORK.
- PERFORM SIDEWALK CONSTRUCTION AND DRIVEWAY APRON/DRIVEWAY RECONSTRUCTION PER SHEETS CS-4, CS-5, CS-6, AND CS-7 UTILIZING TEMPORARY TRAFFIC CONTROL MEASURES PER FIGURES TTC-5.2 AND TTC-35.1.
- REMOVE ALL TEMPORARY TRAFFIC CONTROL MEASURES AT THE END OF EACH WORK DAY.



PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE TRAFFIC CONTROL PLANS WERE PREPARED OR APPROVED BY JACK GOODE, AND THAT MR. GOODE IS A CERTIFIED TRAFFIC CONTROL DESIGN SPECIALIST UNDER THE REQUIREMENTS OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA).  
CERTIFICATION NO.: 228819  
EXP. DATE: 04/25/2025

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

**NOTES**

**Standard**

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

**Guidance**

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

**Option:**

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

**Standard:**

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

		Taper Length (L)						Lane Width (Feet)					
Speed Limit (mph)	Lane Width (Feet)	9	10	11	12	Remarks	Speed Limit (mph)	Lane Width (Feet)	9	10	11	12	Remarks
25	95	105	115	125	L-S/W60		50	450	500	550	600	650	L-S/W
30	125	150	165	180	L-S/W60		55	495	550	605	660	715	L-S/W
35	185	205	225	245	L-S/W60		60	540	600	660	720	780	L-S/W
40	240	270	295	320	L-S/W60		65	585	650	715	780	845	L-S/W
45	405	450	495	540	L-S/W		70	630	700	770	840	910	L-S/W

Limited Access highways shall use a 1000' merging taper regardless of the posted speed, a 750' shifting taper for posted speeds < 65 mph and a 1000' shifting taper for posted speeds ≥ 65 mph.<sup>2</sup>  
Shoulder Taper = 1/2 L Minimum

8. Channelizing device spacing shall be at the following:

		Channelizing Device Spacing			
Location Spacing	Speed Limit (mph)	0-35	36+	Location Spacing	Speed Limit (mph)
Transition		20'	40'	Travelway	
		0-35	36+		
		20'	40'	Construction Access	
		80'	120'		

<sup>2</sup>Construction access spacing may be increased to this distance, but shall not exceed one access per 1/2 mile.

- On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.<sup>2</sup>
- The buffer space length The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
- A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.
- When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

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

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

**NOTES**

**Standard:**

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 pedestrian facility.

**Guidance:**

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

**Option:**

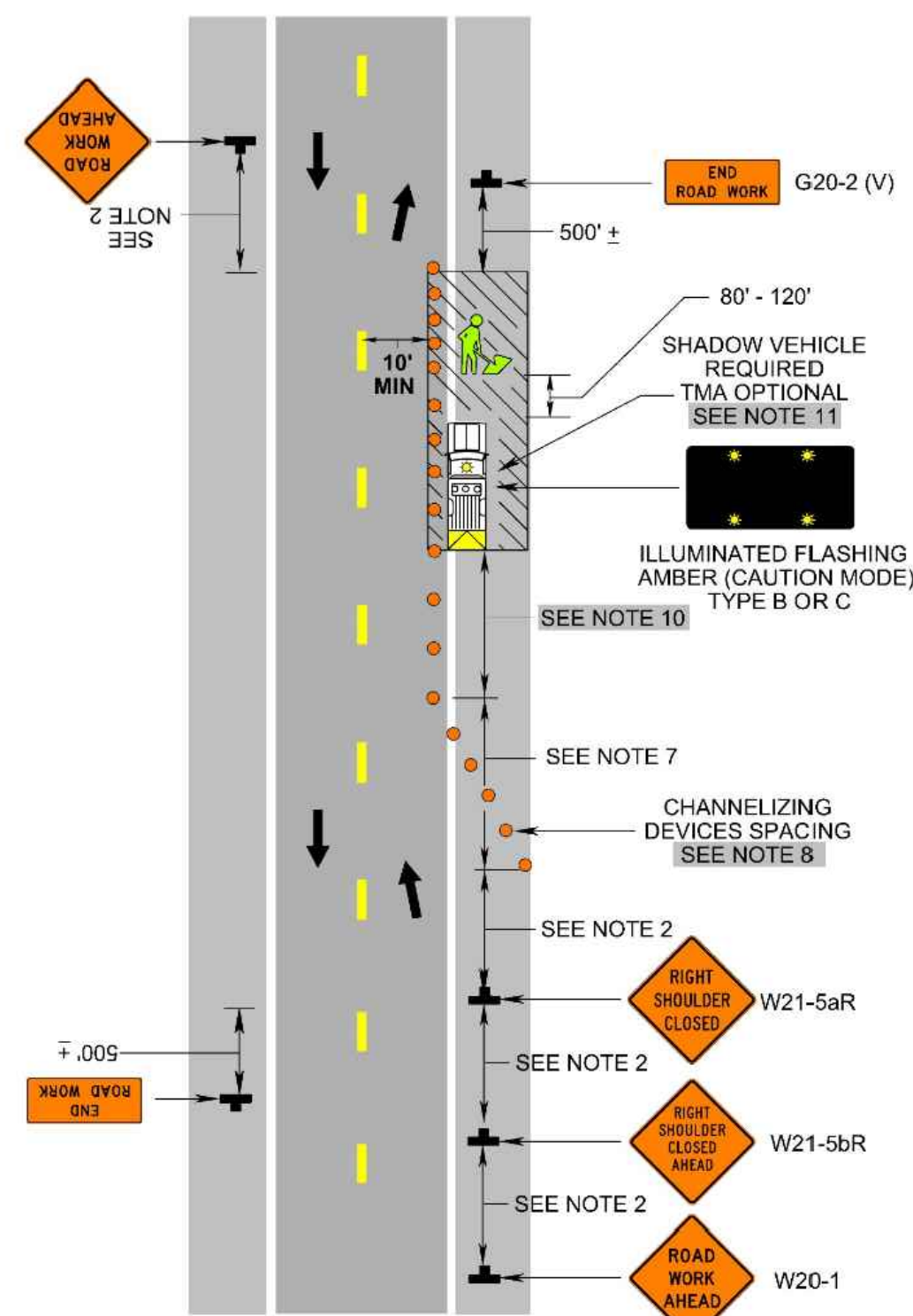
- Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
- For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
- Signs,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

**Standard:**

8. 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.<sup>2</sup>

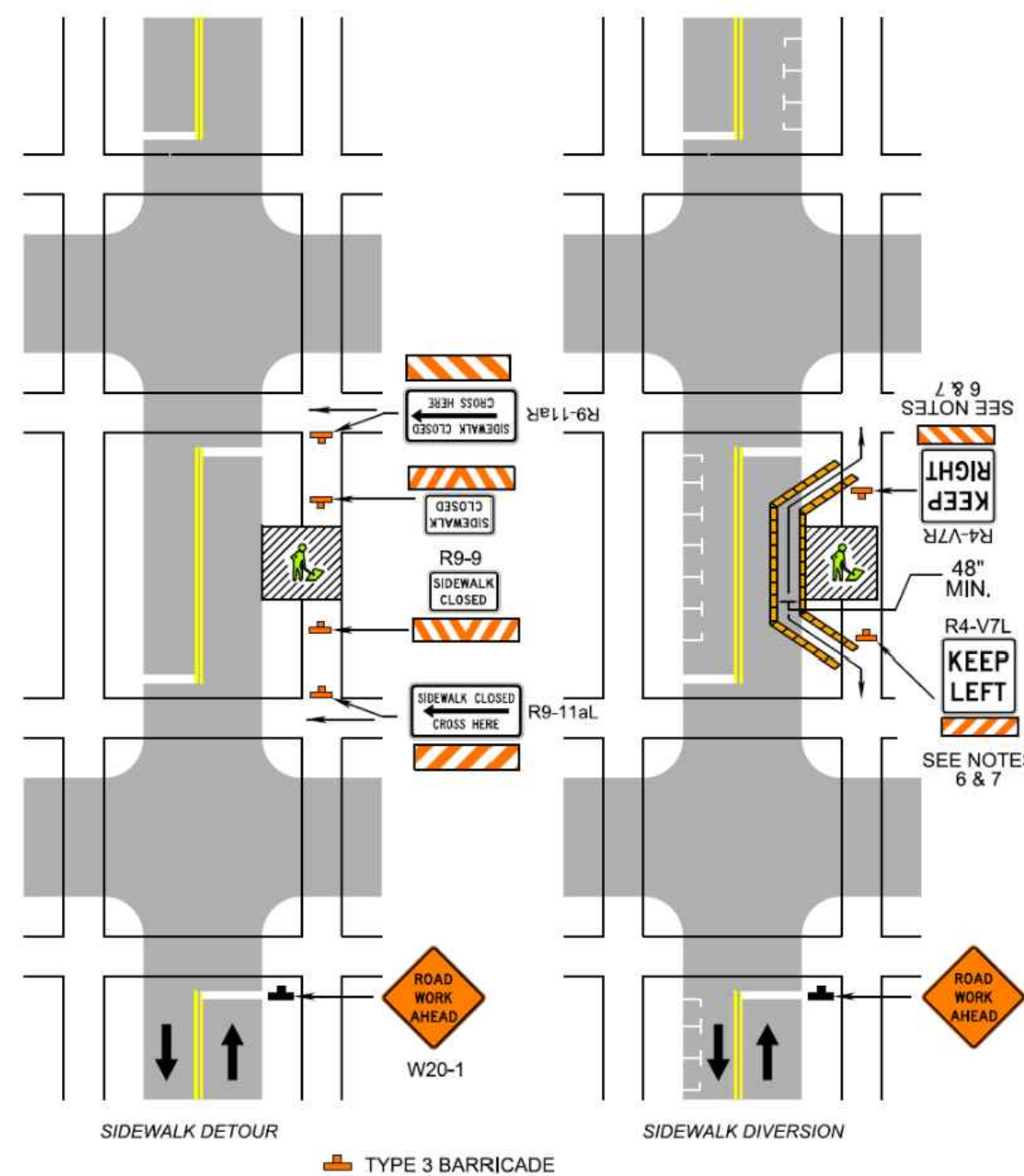
2: Revision 2 - 9/1/2019

**Shoulder Operation with Minor Encroachment  
(Figure TTC-5.2)**



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

**Sidewalk Closure and Bypass Sidewalk Operation  
(Figure TTC-35.1)**



2: Revision 2 - 9/1/2019



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CONSULTANTS



HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK DATE DESCRIPTION

PROJECT NO: 17-0226.008  
SCALE: N/A  
DESIGNED BY: JAA  
DRAWN BY: JES  
CHECKED BY: WJP/JAG  
SHEET TITLE

MAINTENANCE OF  
TRAFFIC GENERAL  
NOTES AND DETAIL

MOT1.1



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800 KING FARM BOULEVARD, 4TH FLOOR  
ROCKVILLE, MD 20850  
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EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS



**HALLMAN ST. SW  
SIDEWALK DESIGN**  
FAIRFAX, VA 22030

TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630

MARK	DATE	DESCRIPTION
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PROJECT NO: 17-0226.008

SCALE: 1"=10'

DESIGNED BY: JAA

DRAWN BY: JES

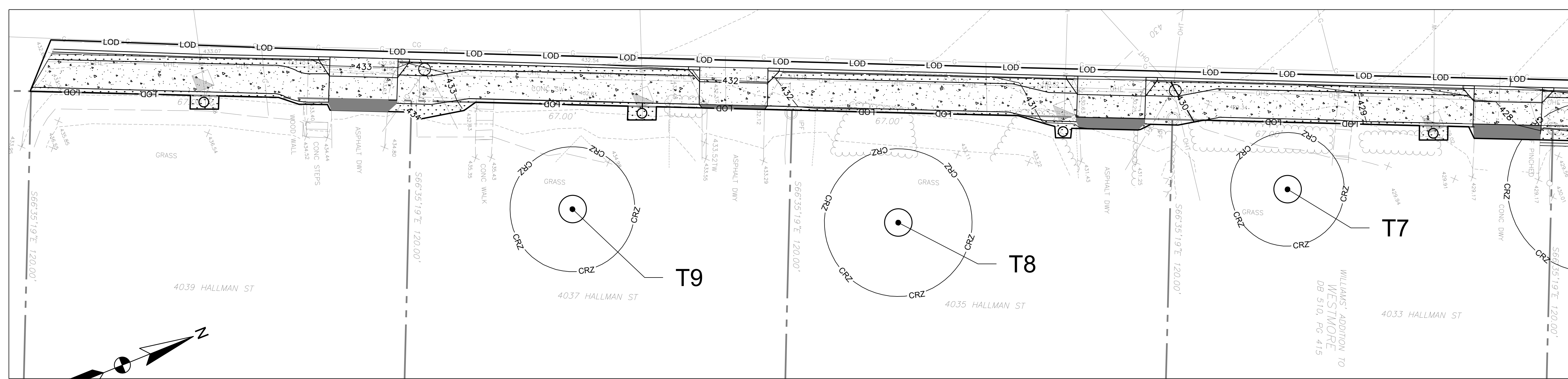
CHECKED BY: WJP/JAG

SHEET TITLE

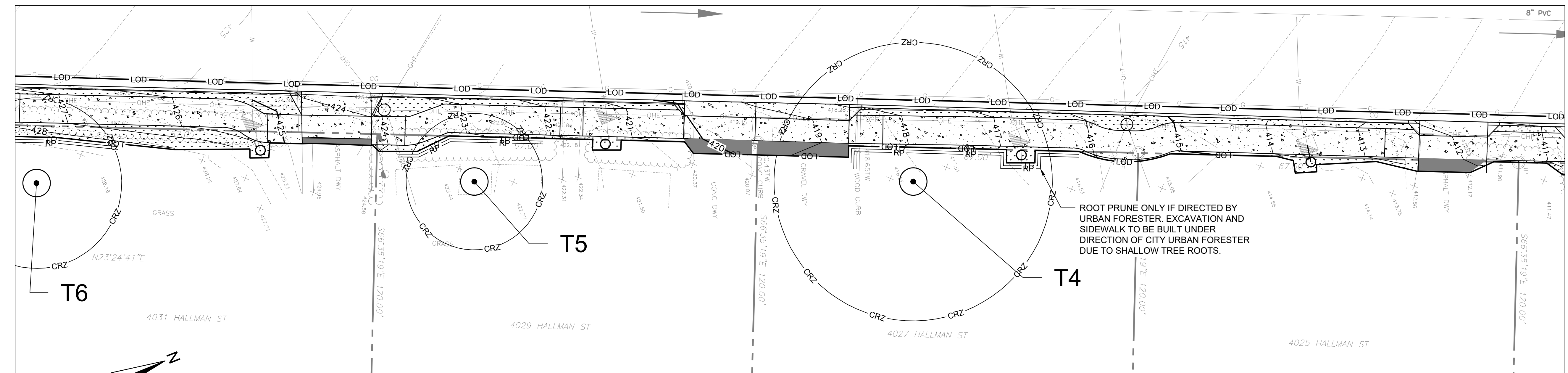
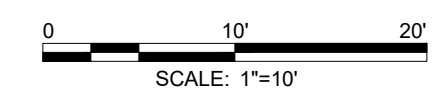
**TREE IMPLEMENTATION  
PLAN**

**LA-1**

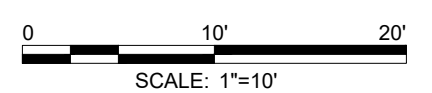
SHEET 23 OF 25



**ENLARGED VIEW - 1**



**ENLARGED VIEW - 2**



**NOTES**

- CONTRACTOR SHALL TRIM ALL EXISTING VEGETATION THAT OBSTRUCTS THE NEW SIDEWALK UNDER THE SUPERVISION OF, AND AS APPROVED BY, THE CITY OF FAIRFAX CONSTRUCTION MANAGER AND URBAN FORESTER.
- TREE PROTECTION FENCE AND ROOT PRUNING SHALL FOLLOW THE ALIGNMENT OF THE LOD. THEY ARE SHOWN OFFSET FOR GRAPHIC PURPOSES ONLY.

**LEGEND:**

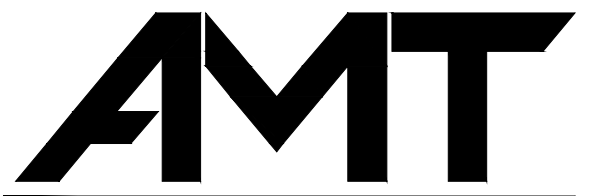
- LOD ——— LIMIT OF DISTURBANCE
- CRZ ——— CRITICAL ROOT ZONE
- TP ——— TREE PROTECTION FENCE
- RP ——— ROOT PRUNING

**Existing Tree Condition Summary**

Tree #	Scientific Name	Common Name	D.B.H (inches)	Critical Root Zone (Sq. Ft.)	AMT Tree Condition Rating	Comments
	(see note 1)					(see note 2)
T1	<i>Camellia japonica</i>	Oil-seed Camellia	14.0	1385	86	13 trunks (2,3,4,5,1,8,6,2,3,3,2,1,2), beneath power line
T2	<i>Lagerstroemia indica</i>	Crape Myrtle	13.0	1195	86	8 trunks (6,4,3,6,4,4,5,3)
T3	<i>Comus florida</i>	Flowering Dogwood	6.0	254	88	
T4	<i>Acer platanoides</i>	Norway maple	24.5	4243	81	ivy on trunk
T5	<i>Comus florida</i>	Flowering Dogwood	12.0	1018	86	string lights on trunk
T6	<i>Prunus yedoensis</i>	Flowering Cherry	15.0	1590	86	some cut limbs
T7	<i>Comus kousa</i>	Kousa Dogwood	10.0	707	88	6 trunks (6,5,3,3,3,3)
T8	<i>Comus florida</i>	Flowering Dogwood	13.0	1195	86	6 trunks (5,5,8,4,6,2)
T9	<i>Comus florida</i>	Flowering Dogwood	11.0	855	73	cut leader, leaning

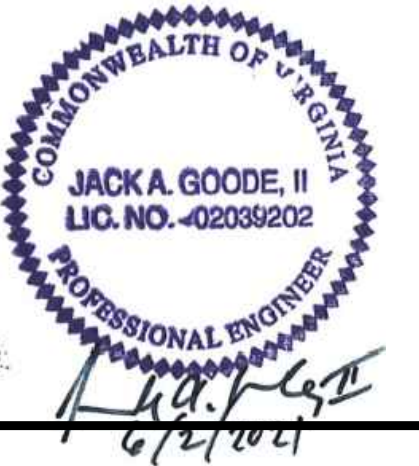
**PLANT SCHEDULE LA-1**

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
[Symbol]	TS	1,059 SF	TURF SOD / DROUGHT TOLERANT FESCUE BLEND	SOD	



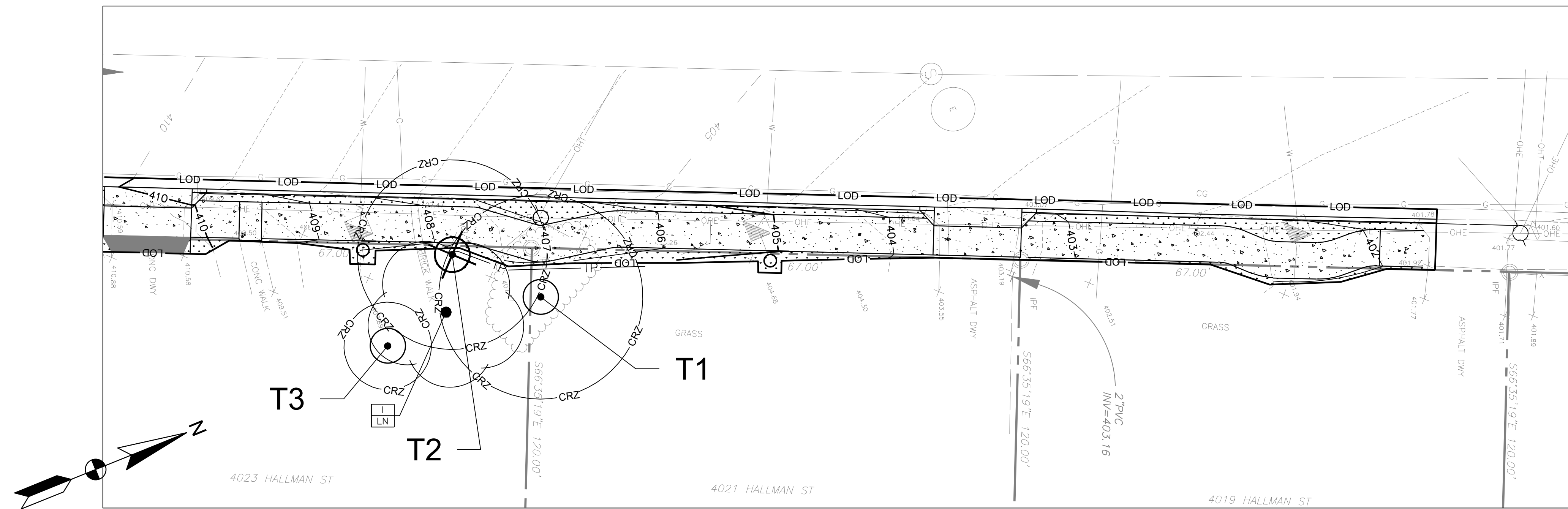
A. MORTON THOMAS AND ASSOCIATES, INC.  
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CONSULTANTS

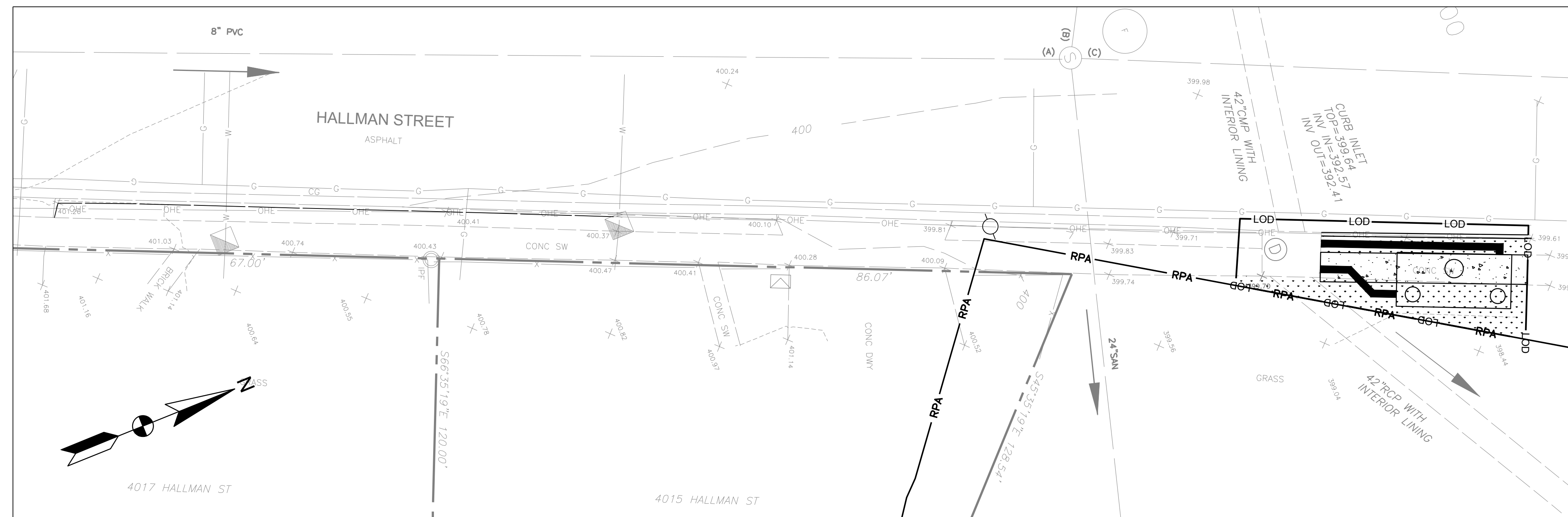
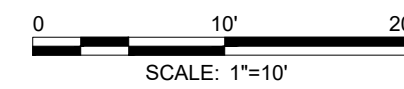


HALLMAN ST. SW  
SIDEWALK DESIGN  
FAIRFAX, VA 22030

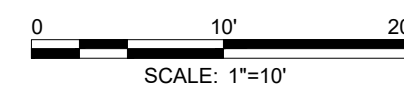
TRANSPORTATION DIVISION,  
PUBLIC WORKS  
CITY OF FAIRFAX (CITY)  
10455 ARMSTRONG STREET  
FAIRFAX, VIRGINIA 22030-3630



ENLARGED VIEW - 3



ENLARGED VIEW - 4



NOTES

- CONTRACTOR SHALL TRIM ALL EXISTING VEGETATION THAT OBSTRUCTS THE NEW SIDEWALK UNDER THE SUPERVISION OF, AND AS APPROVED BY, THE CITY OF FAIRFAX CONSTRUCTION MANAGER AND URBAN FORESTER.
- TREE PROTECTION FENCE AND ROOT PRUNING SHALL FOLLOW THE ALIGNMENT OF THE LOD. THEY ARE SHOWN OFFSET FOR GRAPHIC PURPOSES ONLY.

LEGEND:

- TREE TO BE REMOVED, CONTRACTOR TO GRIND STUMPS 6" BELOW GRADE
- LOD LIMIT OF DISTURBANCE
- CRZ CRITICAL ROOT ZONE
- TP TREE PROTECTION FENCE
- RP ROOT PRUNING

Existing Tree Condition Summary

Tree #	Scientific Name	Common Name	D.B.H (inches)	Critical Root Zone (Sq. Ft.)	AMT Tree Condition Rating	Comments (see note 2)
	(see note 1)					
T1	<i>Camellia japonica</i>	Oil-seed Camellia	14.0	1385	86	13 trunks (2,3,4,5,1,8,6,2,3,3,2,1,2), beneath power line
T2	<i>Lagerstroemia indica</i>	Crape Myrtle	13.0	1195	86	8 trunks (6,4,3,6,4,4,5,3)
T3	<i>Comus florida</i>	Flowering Dogwood	6.0	254	88	
T4	<i>Acer platanoides</i>	Norway maple	24.5	4243	81	ivy on trunk
T5	<i>Comus florida</i>	Flowering Dogwood	12.0	1018	86	string lights on trunk
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T7	<i>Comus kousa</i>	Kousa Dogwood	10.0	707	88	6 trunks (6,5,3,3,3,3)
T8	<i>Comus florida</i>	Flowering Dogwood	13.0	1195	86	6 trunks (5,5,8,4,6,2)
T9	<i>Comus florida</i>	Flowering Dogwood	11.0	855	73	cut leader, leaning

PLANT SCHEDULE LA-2

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
	LN	1	LAGERSTROEMIA INDICA 'NATCHES' / CRAPE MYRTLE	B & B	8'-10' H
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
	TS	611 SF	TURF SOD / DROUGHT TOLERANT FESCUE BLEND	SOD	

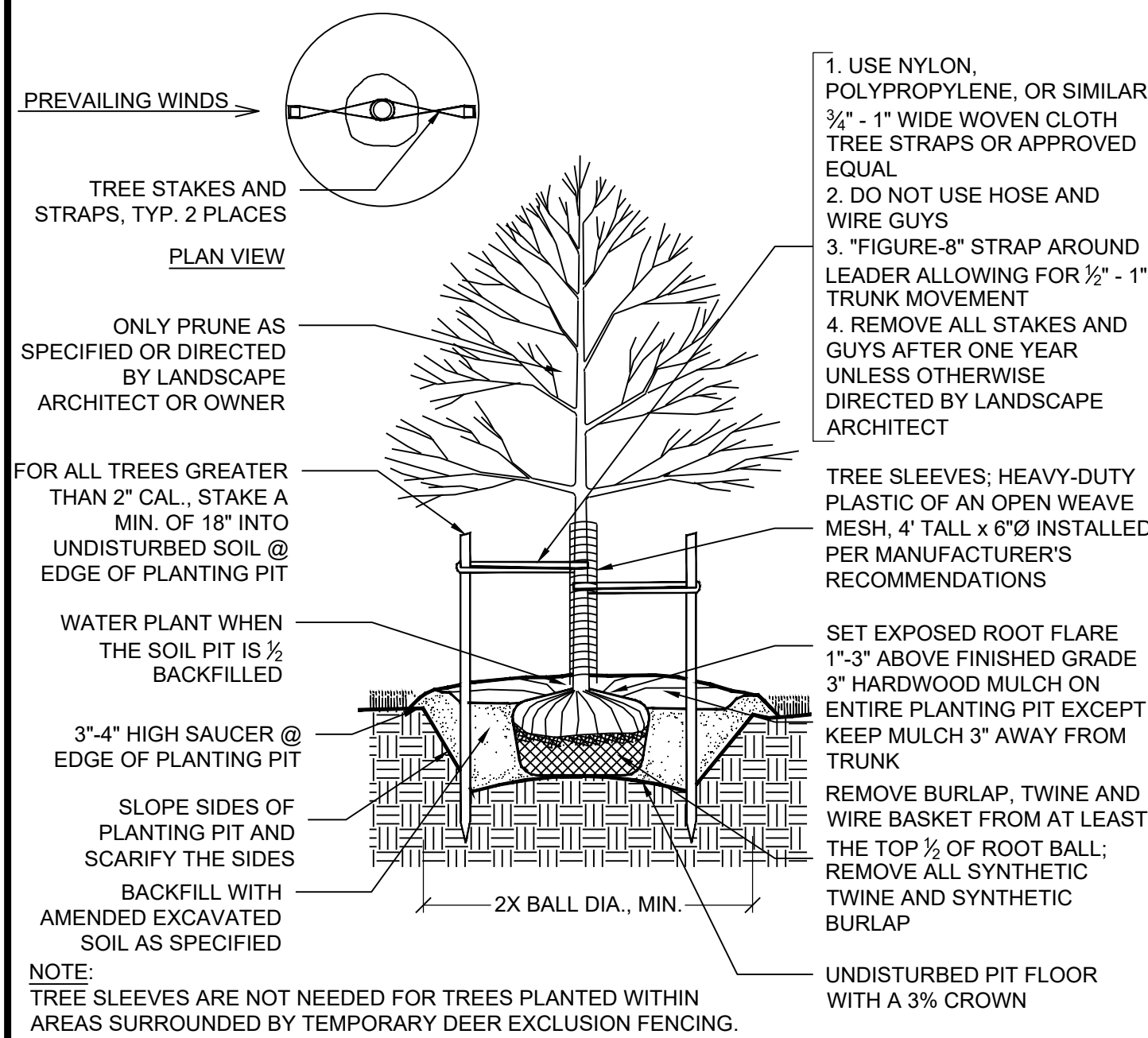
MARK DATE DESCRIPTION

PROJECT NO: 17-0226.008  
SCALE: 1"=10'  
DESIGNED BY: JAA  
DRAWN BY: JES  
CHECKED BY: WJP/JAG  
SHEET TITLE

TREE IMPLEMENTATION PLAN

LA-2





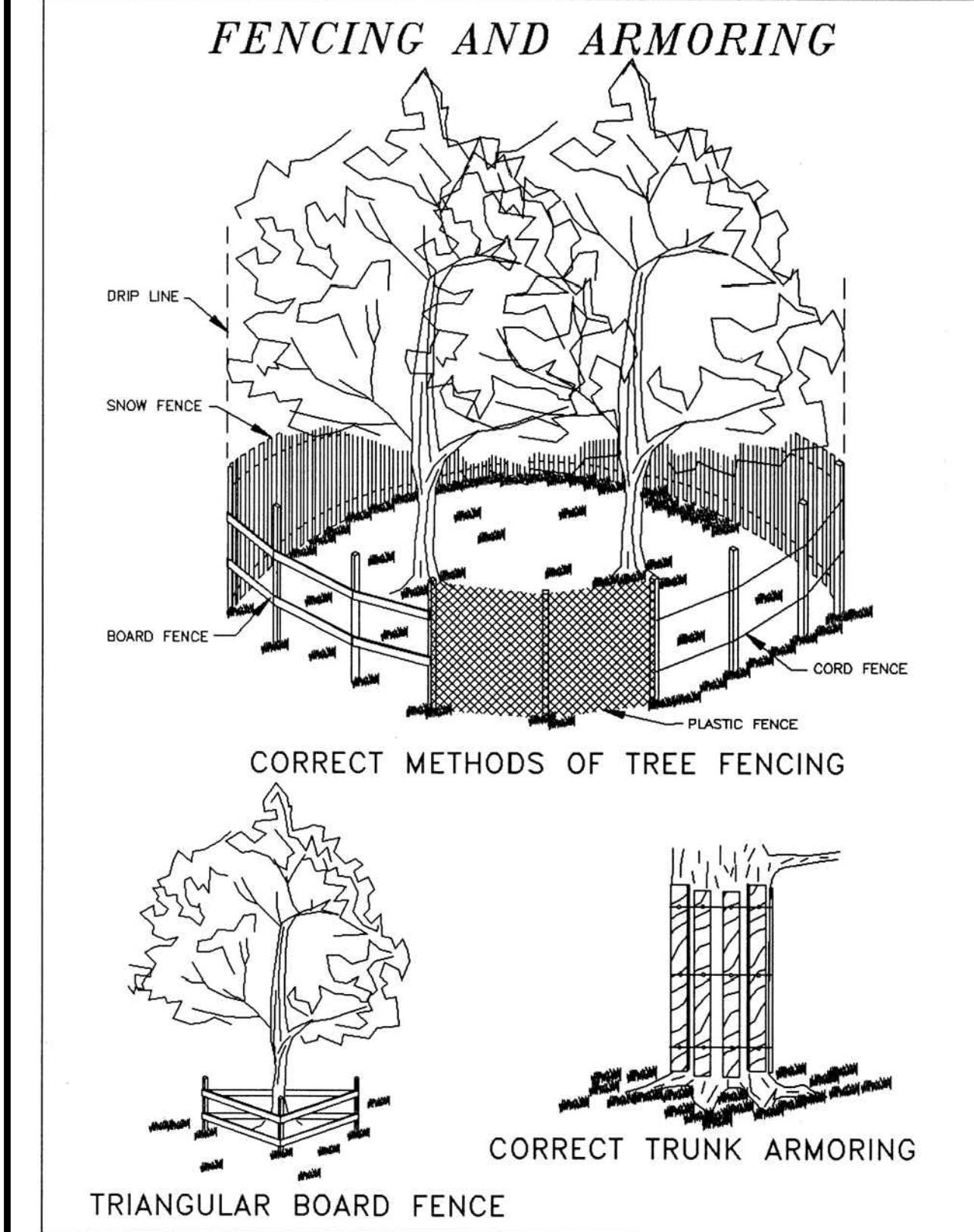
**1** DECIDUOUS TREE PLANTING WITH DEER PROTECTION  
NOT TO SCALE 329343-22

**PLANTING GENERAL NOTES**

- THIS PLAN IS FOR PLANTING PURPOSES ONLY, AND ANY OTHER INFORMATION SHOWN IS **FOR REFERENCE ONLY**. SEE SITE PLAN FOR INFORMATION ABOUT ALL LAYOUT, GRADING AND OTHER SITE IMPROVEMENTS.
- CALL MISS UTILITY AT 811 OR 1-800-257-7777 TO MARK UTILITIES AT LEAST 48 HOURS BEFORE DIGGING.
- ALL MATERIALS AND PLANTING PROCEDURES EXCEPT AS OTHERWISE NOTED SHALL CONFORM TO THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" BY THE LANDSCAPE CONTRACTORS ASSOCIATION MD-DC-VA.
- PLANT NAMES SHALL BE THOSE GIVEN IN THE LATEST EDITION OF STANDARD PLANT NAMES, AMERICAN COMMITTEE ON HORTICULTURAL NOMENCLATURE.
- TOPSOIL SHALL MEET SPECIFICATIONS AS PER THE VA DEQ EROSION AND SEDIMENT CONTROL HANDBOOK.
- THE CONTRACTOR SHALL SUBMIT REPRESENTATIVE SOIL SAMPLES FROM BOTH IN-SITU SOILS AND SOILS BROUGHT IN FROM OFF-SITE TO A STATE LICENSED TESTING LABORATORY. THE CONTRACTOR SHALL INCORPORATE OR APPLY SOIL AMENDMENTS AND FERTILIZATION BASED UPON RESULTS OF THE SOIL TESTS AND RECOMMENDATIONS BY THE TEST LAB.
- THE CONTRACTOR SHALL APPLY GRASS ACCORDING TO THE VA DEQ EROSION AND SEDIMENT CONTROL HANDBOOK. DO NOT USE KENTUCKY 31 TALL FESCUE.
- THE CONTRACTOR SHALL STAKE OUT ALL PLANTING BEDS AND TREE LOCATIONS AND THESE MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER BEFORE DIGGING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND COORDINATE PLANTINGS WITH ALL EXISTING UTILITIES. IF DISCREPANCIES OCCUR BECAUSE OF UTILITY LOCATIONS OR OTHER EXISTING CONDITIONS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY TO COORDINATE ANY NECESSARY ADJUSTMENTS.
- ALL PLANT MATERIAL SHALL BE LABELED BY THE NURSERY AND DELIVERED WITH LABELS IN PLACE FOR INSPECTION. SUBSTITUTIONS IN PLANT SPECIES OR SIZE WILL NOT BE PERMITTED EXCEPT WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER. PRUNING IS NOT TO OCCUR UNTIL MATERIAL HAS BEEN PLANTED. CONTRACTOR SHALL PRUNE PLANT MATERIAL AS SOON THEREAFTER AS IS ADVISABLE UNDER STANDARD HORTICULTURAL PRACTICES.
- IT IS OF UTMOST IMPORTANCE THAT ALL PLANT MATERIAL BE SET SLIGHTLY HIGHER IN RELATION TO GRADE THAN IT WAS GROWN IN THE NURSERY AND WITH GOOD EARTH TO ROOT CONTACT. ANY MATERIALS OR WORK MAY BE REJECTED BY THE LANDSCAPE ARCHITECT IF IT DOES NOT MEET THIS OR ANY OTHER REQUIREMENT OF THE SPECIFICATIONS, AND REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MULCH AND WATER ALL PLANTS WELL ON THE DAY THEY ARE PLANTED. THE SURFACE MULCH LAYER SHALL CONSIST OF STANDARD FINE SHREDDED AGED HARDWOOD MULCH. THE CONTRACTOR SHALL APPLY THE MULCH UNIFORMLY TO A 2 TO 3 INCH DEPTH. BARK SHALL BE KEPT 3 TO 4 INCHES AWAY FROM ALL TRUNKS AND WOODY STEMS.
- IN CASE OF DISCREPANCIES BETWEEN QUANTITIES ON THE PLANT LIST AND THE PLAN, THE PLAN SHALL GOVERN.
- SEED OR SOD BARE AREAS AS DIRECTED BY OWNER FOR ALL DISTURBED AREAS TO BE STABILIZED THAT ARE NOT LANDSCAPED OR COVERED.
- ANY PLANTING WITHIN A FOREST RETENTION AREA, AS DESIGNATED ON THE FOREST CONSERVATION PLAN AND SHOWN ON THIS PLAN, MUST BE DONE TO AVOID ANY ADVERSE IMPACT TO THE ROOTS OF EXISTING TREES. THE CONTRACTORS PERFORMING WORK ON THE SITE ARE RESPONSIBLE FOR PROTECTING EXISTING NATIVE AND NON-INVASIVE PLANTINGS DURING CONSTRUCTION.
- NO CHANGES SHALL BE PERMITTED TO THE PLANT LIST UNLESS APPROVED BY THE CITY OF FAIRFAX DEPARTMENT OF COMMUNITY DEVELOPMENT AND PLANNING, CITY OF FAIRFAX, VIRGINIA.
- TREES SHALL BE CLASSIFIED AS PER "AMERICAN STANDARD FOR NURSERY STOCK" AS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL BELOW THIS STANDARD SHALL NOT BE CONSIDERED.
  - ALL PLANTS MUST CONFORM TO REQUIREMENTS PER PLANT LIST;
  - ALL PLANT MATERIALS MUST BE NURSERY GROWN STOCK;
  - ALL TREES MUST BE WELL BRANCHED, FULL CROWN.
- AT LEAST 5 DAYS BEFORE BEING PLANTED, THE SITE PLAN COORDINATOR SHALL BE NOTIFIED THAT PLANTS ARE AVAILABLE FOR INSPECTION.
- NO PERSON SHALL REMOVE OR DESTROY ANY TREE WHICH IS FIVE (5) INCHES OR GREATER IN CALIPER, MEASURED SIX (6) INCHES ABOVE GROUND LEVEL, ON ANY LOT GREATER THAN ONE-HALF (1/2) ACRE WITHOUT FIRST OBTAINING A TREE REMOVAL PERMIT FROM THE ZONING ADMINISTRATOR. ANY TREE REMOVED, DAMAGED OR DESTROYED WILL BE REPLACED AT THE DISCRETION OF THE ZONING ADMINISTRATOR.
- CONTRACTOR SHALL TRIM ALL EXISTING VEGETATION THAT OBSTRUCTS THE NEW SIDEWALK.

1992

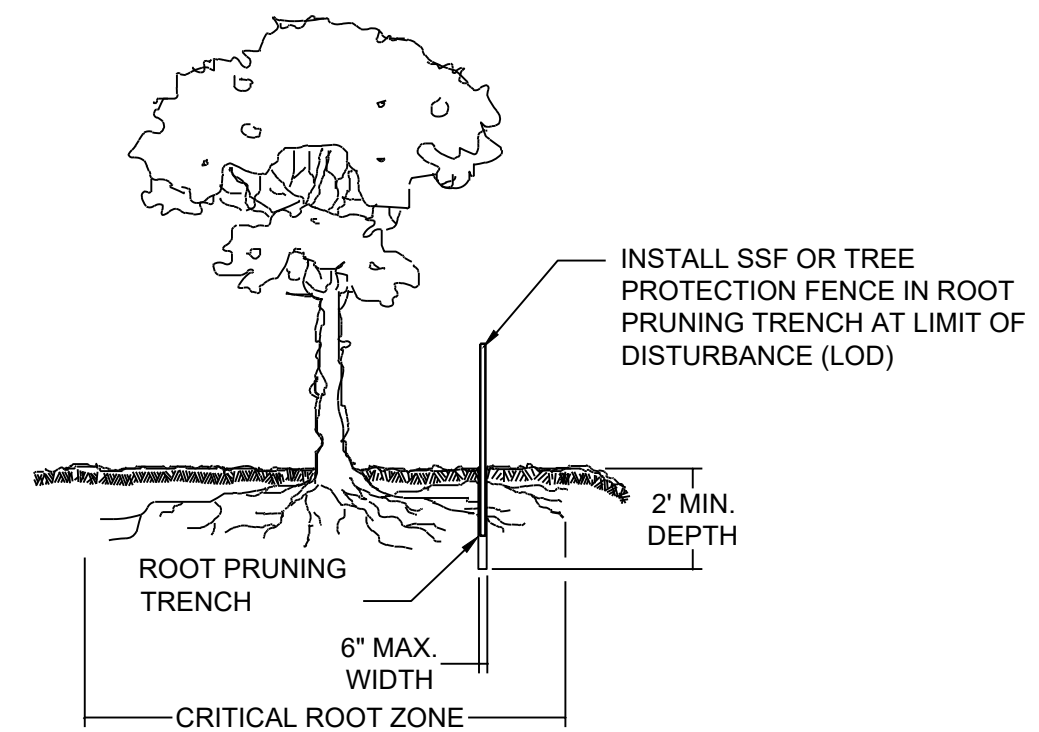
3.38



Source: Va. DSWC

Plate 3.38-2

**2** TREE PROTECTION FENCE  
NTS 00-179



- NOTES:**
- RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS.
  - BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED AND FLAGGED PRIOR TO TRENCHING
  - EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.
  - ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
  - TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH ORGANIC SOIL.

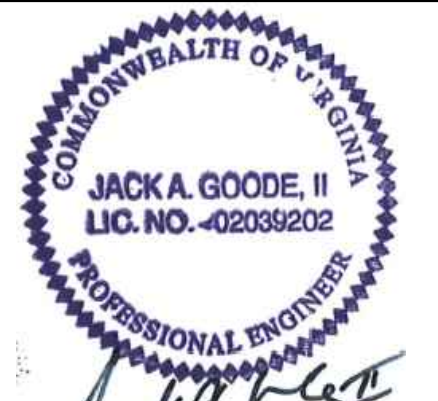
NOT TO SCALE

**3** ROOT PRUNING WITH FENCE  
NOT TO SCALE 31-12



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MARK	DATE	DESCRIPTION

PROJECT NO: 17-0226.008  
SCALE: N/A  
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SHEET TITLE

LANDSCAPING DETAILS

LA-3