



ENGINEER  
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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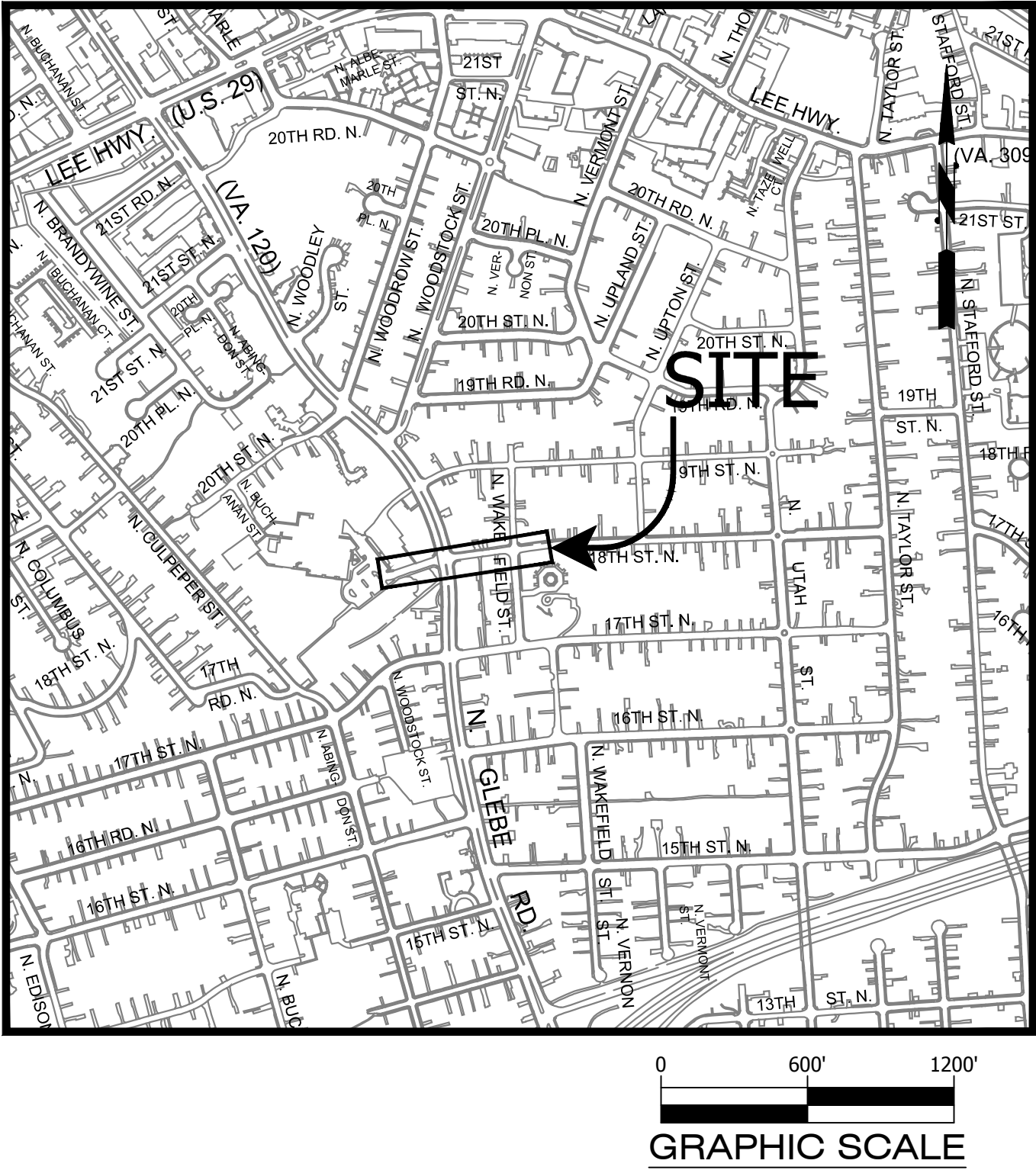
OWNER  
DEPARTMENT OF  
ENVIRONMENTAL SERVICES  
  
Division of Transportation & Development  
Transportation Planning  
2100 Clarendon Boulevard, Suite 900,  
Arlington, VA 22201  
Phone: 703.228.3629 Fax: 703.228.3606  
www.arlingtonva.us

CONTRACTOR  
TO BE DETERMINED

Location Map

Scale: 1" = 600'

Vicinity



CONSTRUCTION DRAWINGS FOR:  
18TH STREET

From 18th Street N. - N. Glebe Road To N. Wakefield Street

Project Type: Sidewalk Improvements

PROJECT NUMBER: P26D

VDOT UPC NUMBER: #105786RS

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TRAFFIC SIGNAL PLAN	
1	COVER SHEET
2	TRAFFIC SIGNAL PLAN
3	TRAFFIC COMMUNICATION PLAN

APPLICABLE FOR THE PORTION OF THE PROJECT IN  
VDOT RIGHT OF WAY

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S:

- ROAD AND BRIDGE SPECIFICATIONS, DATED 2016.
- ROAD AND BRIDGE STANDARDS, DATED 2016.
- VIRGINIA WORK AREA PROTECTION MANUAL, DATED 2011, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009.
- VIRGINIA SUPPLEMENT TO THE 2009 MUTCD, DATED 2011.

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

**MAINTENANCE RESPONSIBILITY WITHIN VDOT RIGHT OF WAY**  
ALL SIDEWALK, CURB AND GUTTER AND ADA RAMPS ENHANCEMENTS IN VDOT RIGHT OF WAY ARE TO BE OWNED AND MAINTAINED BY VDOT. ALL SIDEWALK, CURB AND GUTTER AND ADA RAMPS ENHANCEMENTS IN ARLINGTON COUNTY RIGHT OF WAY ARE TO BE OWNED AND MAINTAINED BY ARLINGTON COUNTY. PROPOSED RETAINING WALL WILL BE MAINTAINED BY VDOT. PROPOSED PAVEMENT WIDENING, MILLING AND OVERLAY AND PAVEMENT MARKINGS IN VDOT RIGHT OF WAY WILL BE MAINTAINED BY VDOT. NEW TRAFFIC SIGNAL AND STREET LIGHTS WILL BE MAINTAINED AND OPERATED BY ARLINGTON COUNTY.

AADT:

N Glebe Road (from Lee Hwy to I-66) - 17,000 VPD AADT (VDOT 2017)  
18th Street N - No recent or historic count data available  
N Wakefield Street (from 17th Street N to 16th Street N- 150 VPD ADT (Arlington 2019)

Street Classification:

N Glebe Road - Principal Arterial  
18th Street N - Neighborhood Minor  
N Wakefield Street - Neighborhood Minor

Speed Limit

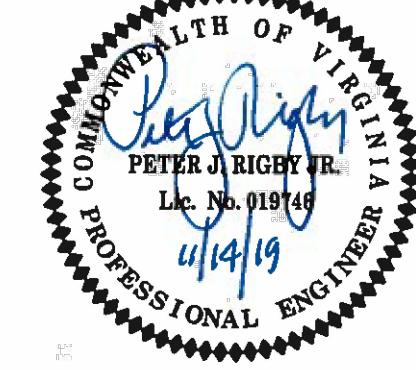
N. Glebe Road - 30 MPH  
18th Street N. - 25 MPH  
N. Wakefield St. - 25 MPH

Stormwater Management #  
SWM17-0229



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SEAL



APPROVALS DATE  
QUALITY CONTROL ENGINEER 11/13/2019  
CONSTRUCTION MANAGEMENT SUPERVISOR 11/18/19  
WATER, SEWER, STREETS BUREAU CHIEF 11/19/19  
TRANSPORTATION DIRECTOR 11/19/19  
PROJECT MANAGER Nov 18, 2019

REVISIONS	DATE

18TH STREET NORTH  
P26D

From 18th Street N. - N. Glebe Road  
To N. Wakefield Street

COVER SHEET

DESIGNED: C. UYAMAM / L. DELACRUZ  
DRAWN: C. UYAMAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 25 2019

SCALE:

AS NOTED



# General Notes

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS DATED 2013, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS DATED 2016, AND ROAD AND BRIDGE STANDARDS DATED 2016. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
2. ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL DATED 2011 AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
3. 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 AND/OR SEWER LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
5. 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.
6. 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. 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.
7. 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.

8. 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.

STORMWATER AND ENVIRONMENTAL PROTECTION

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 WORK (LOW).

TRAFFIC CONTROL

9. 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 DEVICES.
10. 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 PERMANENT MARKINGS.
11. 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.
12. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE 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 BE COORDINATED WITH THE COUNTY'S BUS STOP COORDINATOR (PHONE #703-228-3049) AT LEAST FOUR WEEKS IN ADVANCE OF CONSTRUCTION COMMENCEMENT. ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
13. 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

14. 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 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
15. IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE PROJECT OFFICER.

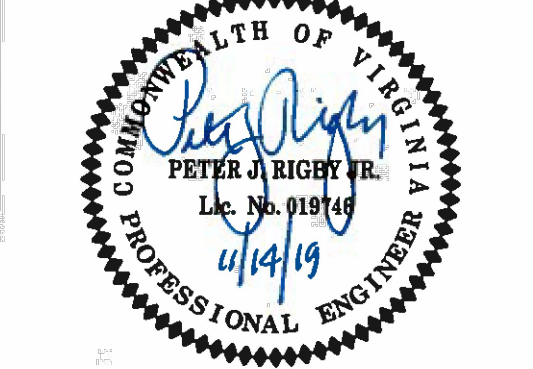
VDOT DRAINAGE GENERAL NOTES



16. D-1 THE HORIZONTAL LOCATION OF ALL DRAINAGE STRUCTURES SHOWN ON THESE

PLANS IS APPROXIMATE ONLY, WITH THE EXCEPTION OF STRUCTURES SHOWING SPECIFIC STATIONS, SPECIAL DESIGN BRIDGES AND STORM SEWER SYSTEMS.

17. D-2 THE HORIZONTAL LOCATION AND INVERT ELEVATIONS SHOWN FOR PROPOSED CULVERTS AND STORM SEWER OUTFALL PIPES ARE BASED ON EXISTING SURVEY DATA AND REQUIRED DESIGN CRITERIA. IF, DURING CONSTRUCTION, IT IS FOUND THAT THE HORIZONTAL LOCATION OR INVERT ELEVATIONS SHOWN ON THE PLANS DIFFER SIGNIFICANTLY FROM THE HORIZONTAL LOCATION OR ELEVATIONS OF THE STREAM OR SWALE IN WHICH THE CULVERT OR STORM SEWER OUTFALL PIPE IS TO BE PLACED, THE ENGINEER SHALL CONFER WITH, AND GET APPROVAL FROM, THE APPLICABLE DISTRICT DRAINAGE ENGINEER BEFORE INSTALLING THE CULVERT OR STORM SEWER OUTFALL PIPE.
18. D-3 THE "H" DIMENSIONS SHOWN ON THE PLANS FOR DROP INLETS AND JUNCTION BOXES AND THE "L.F. (M)" DIMENSIONS SHOWN FOR MANHOLES ARE FOR ESTIMATING PURPOSES AND ARE BASED ON THE PROPOSED INVERT ELEVATIONS SHOWN FOR THE STRUCTURE AND THE ANTICIPATED TOP (RIM) ELEVATION BASED ON EXISTING OR PROPOSED FINISHED GRADE. THE ACTUAL "H" OR "L.F. (M)" DIMENSIONS ARE TO BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.
19. D-7 ALL PIPE ON THIS PROJECT SHALL BE (SPECIFY TYPE). FOR STRENGTH, SHEETTHICKNESS, OR CLASS DESIGNATION, AVAILABLE SIZES, HEIGHT OF COVER LIMITATIONS AND OTHER RESTRICTIONS FOR A PARTICULAR PIPE TYPE OR HEIGHT OF COVER, SEE THE APPLICABLE SECTIONS OF THE VDOT ROAD AND BRIDGE STANDARDS PC-1.
20. D-12 ALL EXISTING DRAINAGE FACILITIES LABELED "TO BE ABANDONED" SHALL BE LEFT IN PLACE, BACKFILLED AND PLUGGED IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE STANDARD PP-1. BASIS OF PAYMENT WILL BE C.Y. (M³) OF FLOWABLE BACKFILL.
21. D-13 EXISTING DRAINAGE FACILITIES BEING UTILIZED AS A PART OF THE DRAINAGE SYSTEM, AND DESIGNATED ON THE PLANS "TO BE CLEANED OUT", SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. THE COST INCIDENTAL TO THIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR OTHER ITEMS.
22. D-14 PROPOSED DROP INLETS WITH A HEIGHT (H) LESS THAN THE STANDARD MINIMUM SHOWN IN THE VDOT ROAD AND BRIDGE STANDARDS SHALL BE CONSIDERED AND PAID FOR AS STANDARD DROP INLETS FOR THE TYPE SPECIFIED. PIPES WITH LESS THAN STANDARD MINIMUM FINISHED HEIGHT OF COVER SHALL BE NOTED AS SUCH IN THE DRAINAGE DESCRIPTION FOR THE PIPE. SPECIFIC PIPE BEDDING AND COVER REQUIREMENTS ARE PROVIDED IN THE APPLICABLE PB-1 AND PC-1 STANDARD DRAWINGS OF THE VDOT ROAD AND BRIDGE STANDARDS.
23. D-15 WHERE THE PLANS SPECIFY THE INSTALLATION OF STANDARD CURB DROP INLETS ADJACENT TO THE CITY OF \_(SPECIFY CITY) STANDARD CURB AND GUTTER, THE STANDARD DROP INLETS (AS SHOWN IN THE VDOT ROAD AND BRIDGE STANDARDS) SHALL BE MODIFIED IN ACCORDANCE WITH DETAILS SHOWN ON SHEET NUMBER (SPECIFY SHEET NUMBER). THESE DROP INLETS SHALL BE CONSIDERED AND PAID FOR AS STANDARD DROP INLETS FOR THE TYPE SPECIFIED.
24. D-16 WHEN STANDARD CG-6 OR CG-7 IS SPECIFIED ON A RADIUS (SUCH AS AT A STREET INTERSECTION), THE ENGINEER MAY APPROVE A DECREASE IN THE CROSS SLOPE OF THE GUTTER TO FACILITATE PROPER DRAINAGE.
25. D-17 STD SL-1 SAFETY SLAB LOCATIONS ARE BASED ON THE ASSUMED USE OF PRECAST STRUCTURES. IF CAST-IN-PLACE STRUCTURES ARE UTILIZED, AND THE INTERIOR CHAMBER DIMENSIONS (LENGTH AND WIDTH, OR DIAMETER) ARE LESS THAN 4 FEET, THE SAFETY SLABS SHALL NOT BE INSTALLED.

SEAL



APPROVALS	DATE
 QUALITY CONTROL ENGINEER	11.13.2019
 CONSTRUCTION MANAGEMENT SUPERVISOR	11/18/19
 WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
 TRANSPORTATION DIRECTOR	11/19/19
 PROJECT MANAGER	Nov 18, 2019

REVISIONS	DATE

18TH STREET NORTH  
P260

From 18th Street N. - N. Glebe Road  
To N. Wakefield Street

GENERAL NOTES

DESIGNED: C. UMayAM / L. DELACRUZ  
DRAWN: C. UMayAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A  
PLOTTED: NOVEMBER 25 2019

SCALE:

AS NOTED



FEATURE

EXISTING

LINETYPE LEGEND

PROPOSED

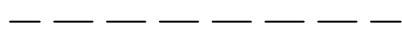
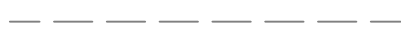
NOTE: MODEL SCALE SET TO 1:1

EXISTING

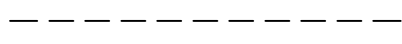
PROPOSED

SYMBOL LEGEND

EASEMENT



HARDSCAPE FEATURE  
(MATERIAL NOTED)



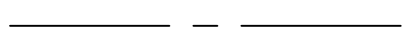
BUILDING



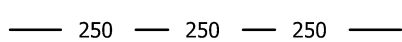
COMMUNICATIONS CABLE



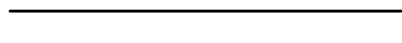
CENTERLINE / BASELINE



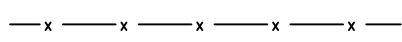
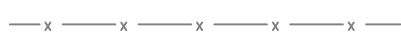
CONTOURS



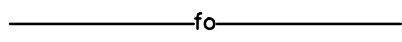
ELECTRIC (UNDERGROUND)



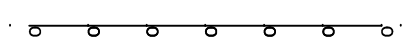
FENCE (MATERIAL NOTED)



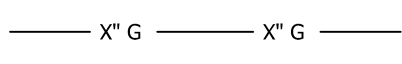
FIBER OPTIC



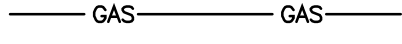
GUARDRAIL



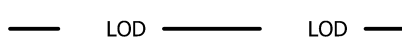
X" GAS LINE  
(SIZE INCLUDED IF AVAILABLE)



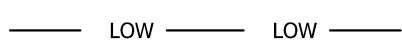
GAS LINE



LIMITS OF DISTURBANCE



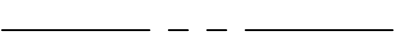
LIMITS OF WORK



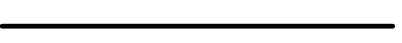
OVERHEAD WIRES



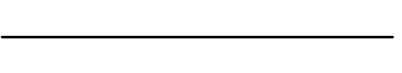
PROPERTY LINE



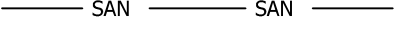
RIGHT-OF-WAY LINE



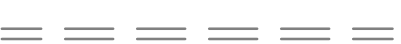
X" SANITARY SEWER  
(SIZE INCLUDED IF AVAILABLE)



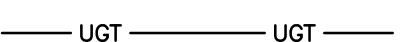
SANITARY SEWER



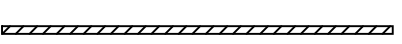
STORM (SIZE NOTED)



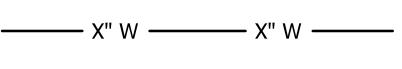
TELEPHONE (UNDERGROUND)



WALL



X" WATER  
(SIZE INCLUDED IF AVAILABLE)



WATER



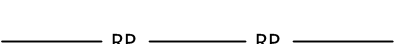
TREE LINE



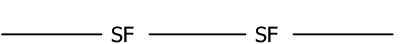
CRITICAL ROOT ZONE



ROOT PRUNING



SILT FENCE



TREE PROTECTION FENCE



EX STORM BASIN



EX YARD INLET



EX STORM MANHOLE



EX SANITARY MANHOLE



EX TRAFFIC SIGN



EX GAS VALVE



EX LIGHT POLE



EX UTILITY POLE



EX WATER MANHOLE



EX WATER VALVE



EX FIRE HYDRANT



EX WATER METER



EX UTILITY MANHOLE  
TYPE INDICATED ELECTRIC,  
TELE, ETC.



EX TRAFFIC CONTROL BOX



EX GUY WIRES



EX TELEPHONE PEDESTAL



EX ELECTRIC BOX



EX CABLE PEDESTAL



EX IRON PIPE OR PIN



EX MONUMENT



EX PARKING METER



EX MAILBOX



EX GROUND LIGHT



EX TREES, WOODED AREA



PROP STORM CATCH BASIN  
(TO SCALE)



PROP YARD INLET  
(TO SCALE)



PROP STORM MANHOLE



PROP SANITARY MANHOLE



PROP TRAFFIC SIGN



PROP GAS VALVE



PROP LIGHT POLE



PROP UTILITY POLE



PROP WATER MANHOLE



PROP WATER VALVE



PROP FIRE HYDRANT



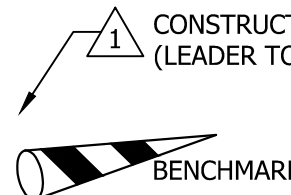
PROP WATER METER



① CURVE NUMBER (SEE CURVE TABLE)

① LINE NUMBER (SEE LINE TABLE)

△ CONSTRUCTION NOTES  
(LEADER TO AREA AFFECTED)



NORTH ARROW



△ TRAVERSE

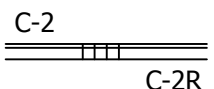
● TEST HOLE



✕ PROPOSED TREE REMOVAL



C-2 Curb Transition  
C-2R



☼ Coniferous Tree ☼



☼ Deciduous Tree ☼



☼ Bush/Hedge/Shrub ☼



LABEL LEGEND

1234 EX SAN STRUC NO.  
Existing Sanitary Structure Number

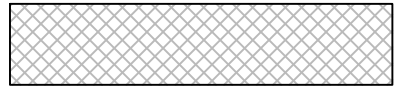
1234 PROP SAN SEW STRUC NO.  
Proposed Sanitary Sewer Structure Number

1234 EX STRM SEW STRUC NO.  
Existing Storm Sewer Structure Number

1234 PROP STRM SEW STRUC NO.  
Proposed Storm Sewer Structure Number

HATCH LEGEND

PROP MILL & OVERLAY  
SEE TYPICAL SECTION FOR DETAILS



GRASS AREA



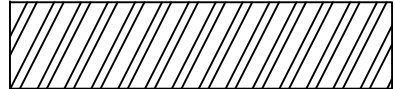
PROP FULL DEPTH ASPHALT  
SEE TYPICAL SECTION FOR DETAILS



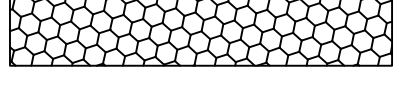
PROP CONCRETE



REPLACE & MATCH EXISTING DRIVEWAY  
OR LEADWALK. SEE CONSTRUCTION NOTES



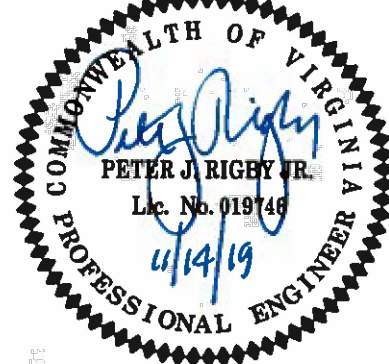
DEMOLITION AREA



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



APPROVALS

DATE

11.13.2019  
11/18/19  
11/19/19  
11/19/19  
11/19/19  
11/19/19  
11/19/19

REVISIONS

DATE

11/13/2019  
11/18/19  
11/19/19  
11/19/19  
11/19/19  
11/19/19  
11/19/19

18TH STREET NORTH  
From 18th Street N. - N. Glebe Road  
To N. Wakefield Street

LEGEND

DESIGNED: C. UYAMAM / L. DELACRUZ  
DRAWN: C. UYAMAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 25 2019

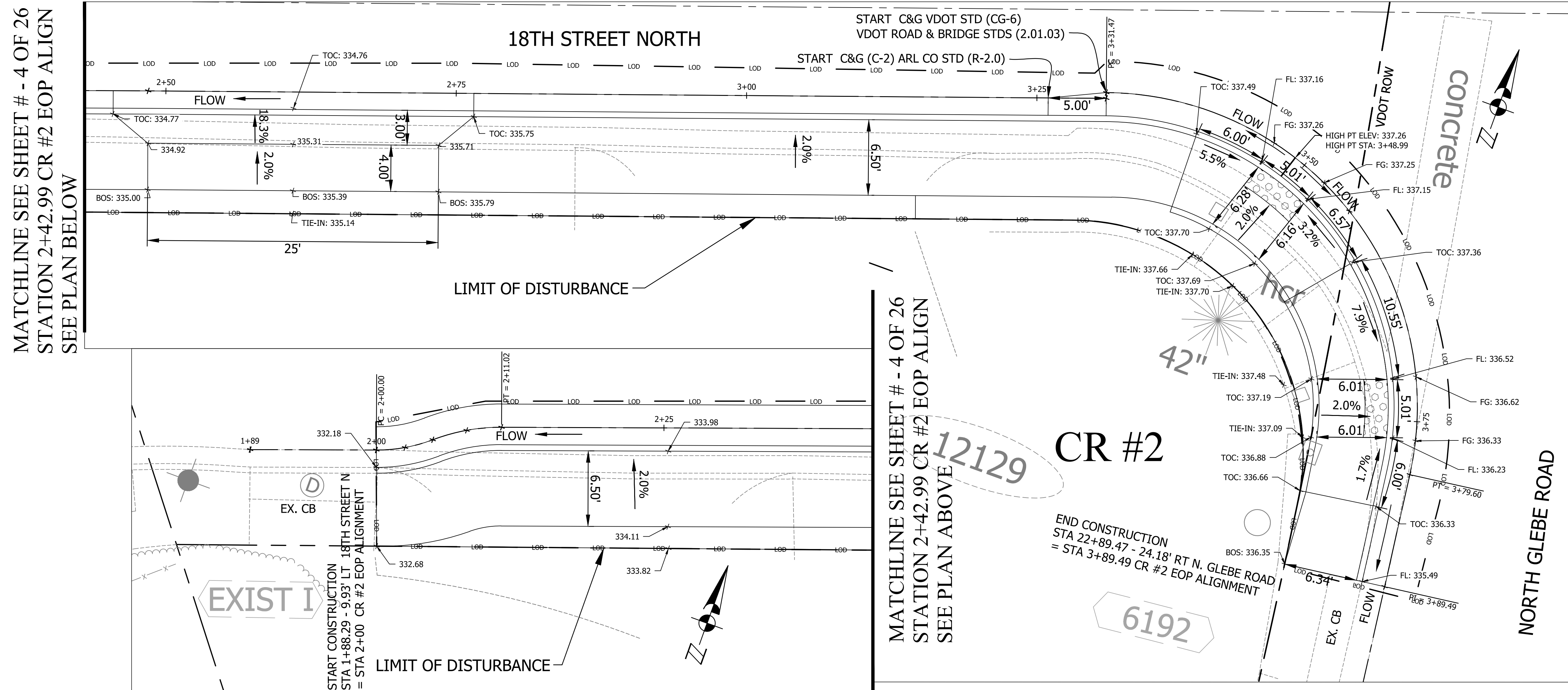
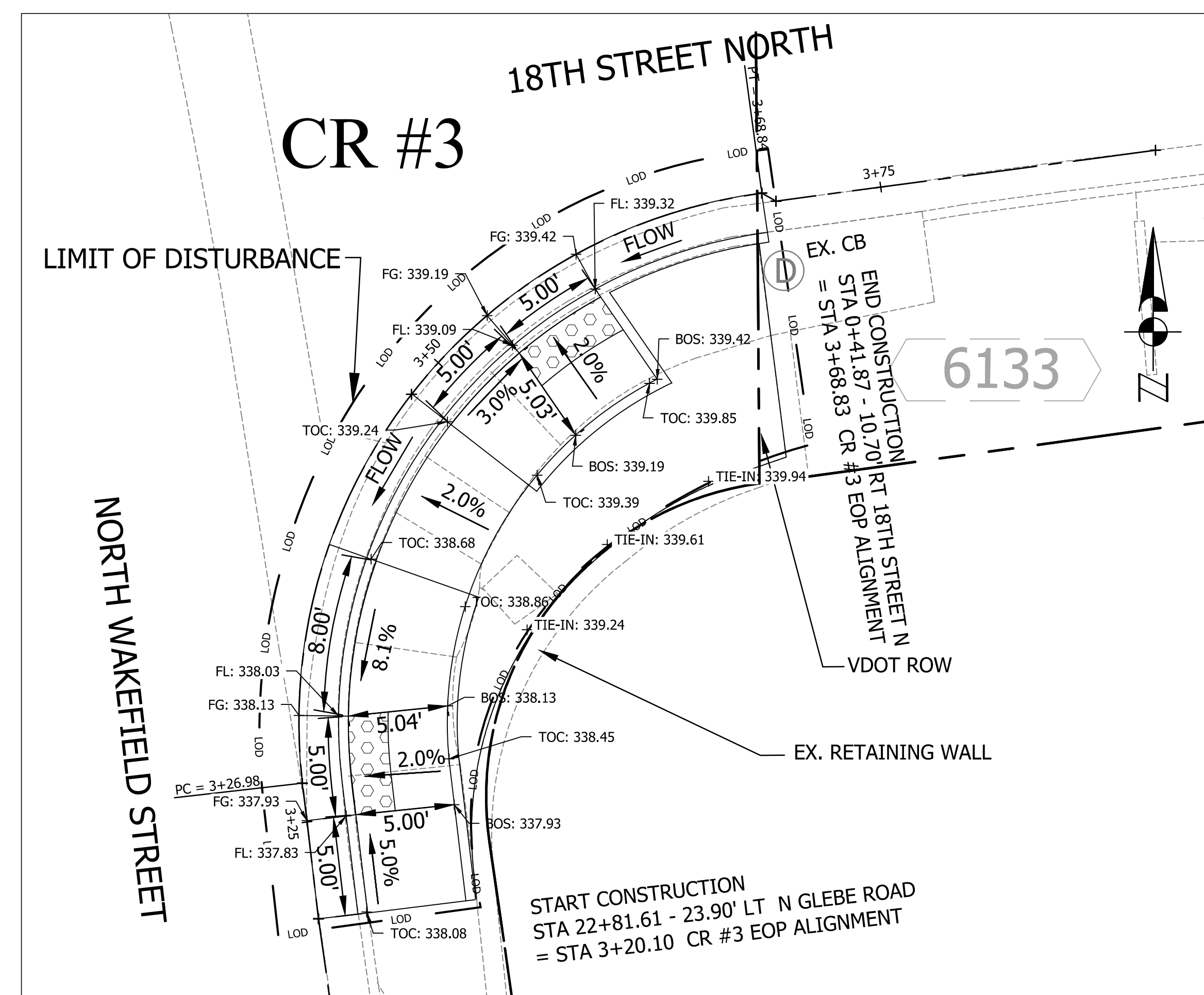
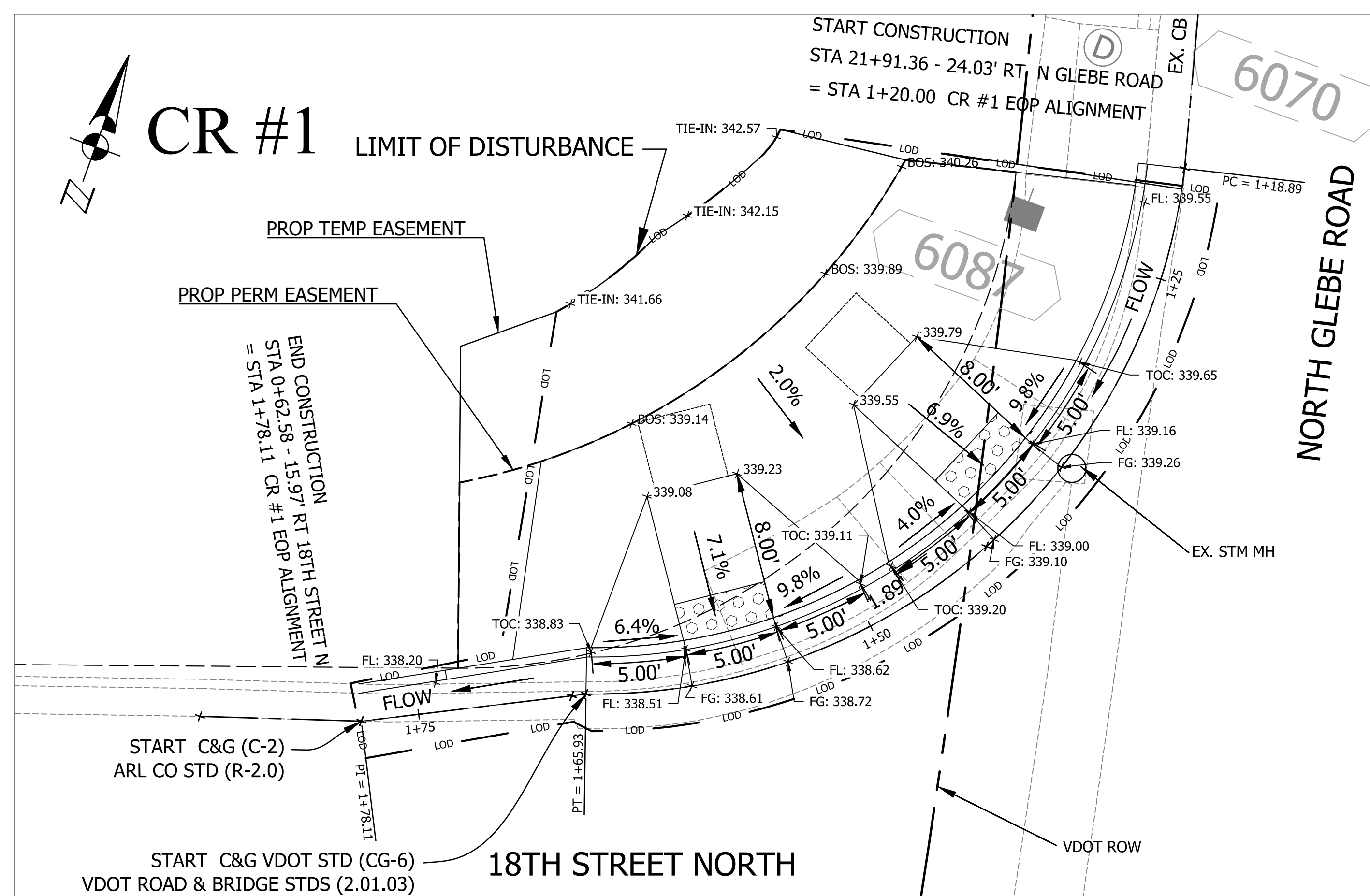
SCALE:

AS NOTED

SHEET

3 OF 29

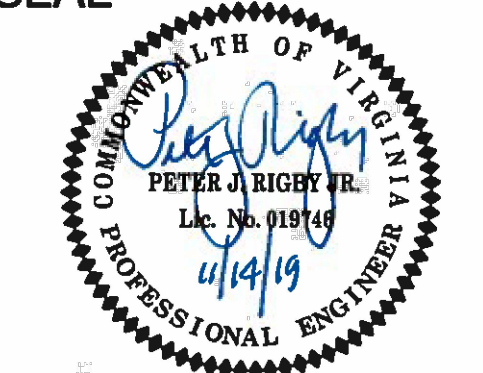




**DEPARTMENT OF  
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APPROVALS	DATE
-----------	------

QUALITY CONTROL ENGINEER *11/15/2011*

CONSTRUCTION MANAGEMENT SUPERVISOR *11/18/11*

WATER, SEWER, STREETS BUREAU CHIEF *11/19/11*

TRANSPORTATION DIRECTOR *11/19/11*

PROJECT MANAGER *Nov 18, 2011*

REVISIONS	DATE
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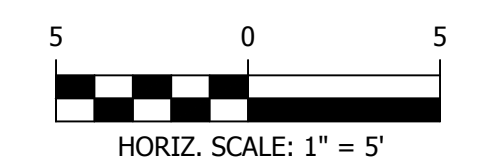
18TH STREET NORTH  
P260  
From 18th Street N. - N. Glebe Rd  
To N. Wakefield Street

RAMP DETAILS I

DESIGNED: C. UYAMAM / L. DELACRUZ  
DRAWN: C. UYAMAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

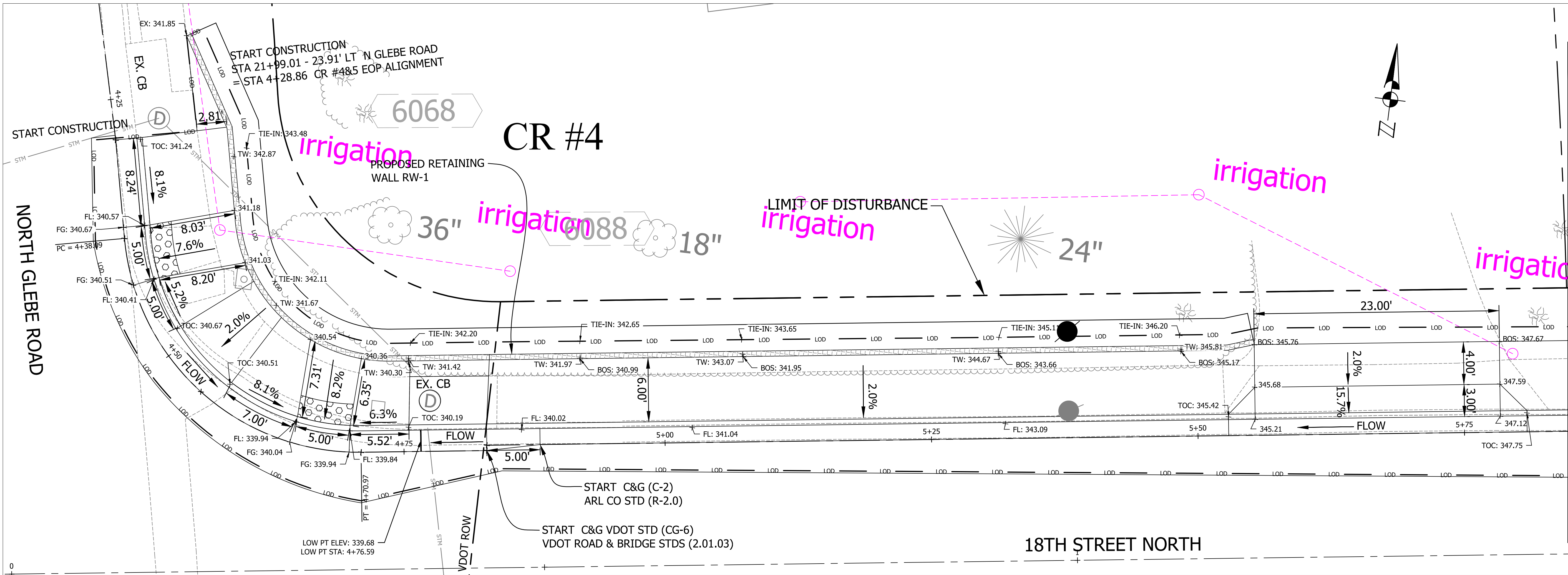
PLOTTED: NOVEMBER 25 2019

SCALE:

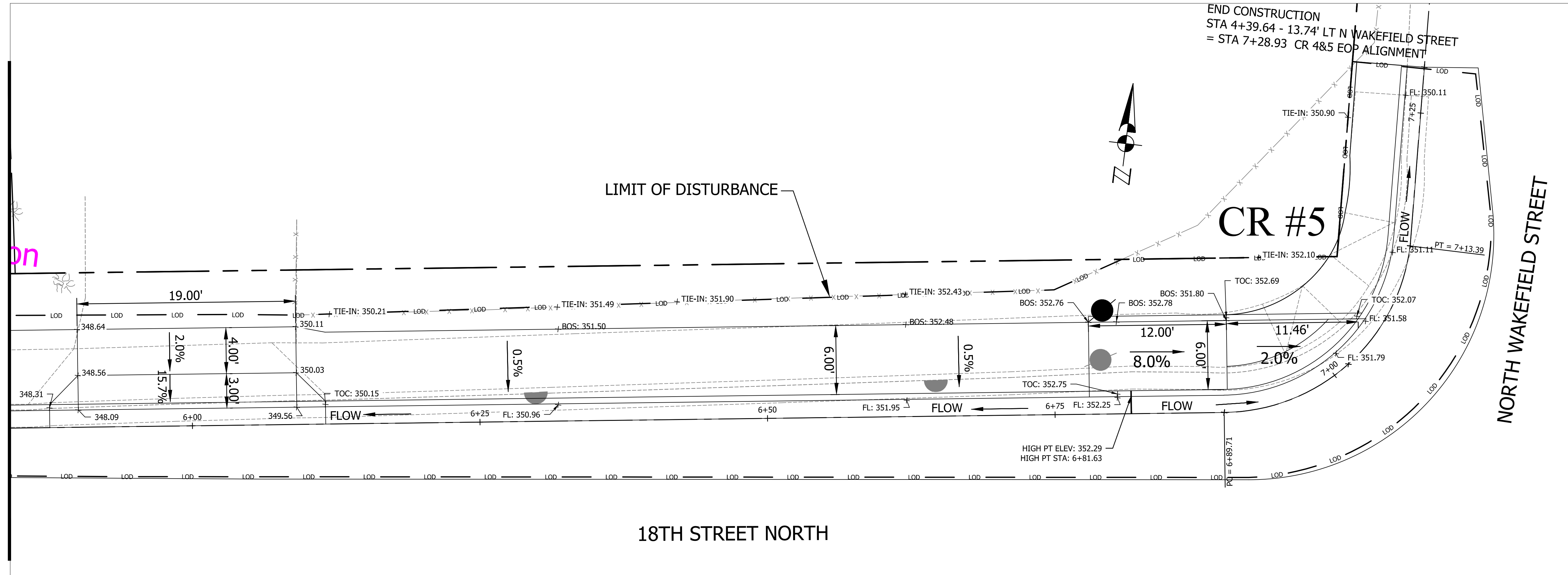


SHEET 4 OF 29

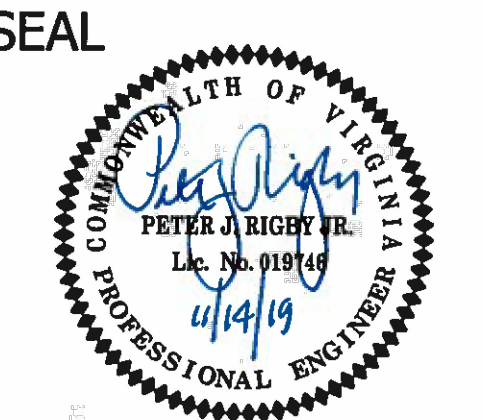




MATCHLINE SEE SHEET # - 5 OF 26  
STATION 5+84.70 CR #4&5 EOP ALIGN  
SEE PLAN ABOVE



MATCHLINE SEE SHEET # - 5 OF 26  
STATION 5+84.70 CR #4&5 EOP ALIGN  
SEE PLAN ABOVE



APPROVALS	DATE
QUALITY CONTROL ENGINEER	11/18/19
CONSTRUCTION MANAGEMENT SUPERVISOR	11/18/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 18, 2019

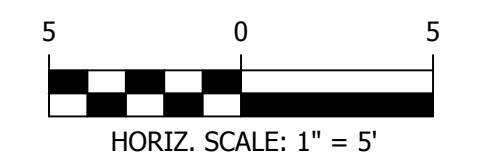
REVISIONS	DATE
-----------	------

18TH STREET NORTH  
From 18th Street N. - N. Glebe Road  
To N. Wakefield Street  
RAMP DETAILS II

DESIGNED: C. UYAMAY / L. DELACRUZ  
DRAWN: C. UYAMAY / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

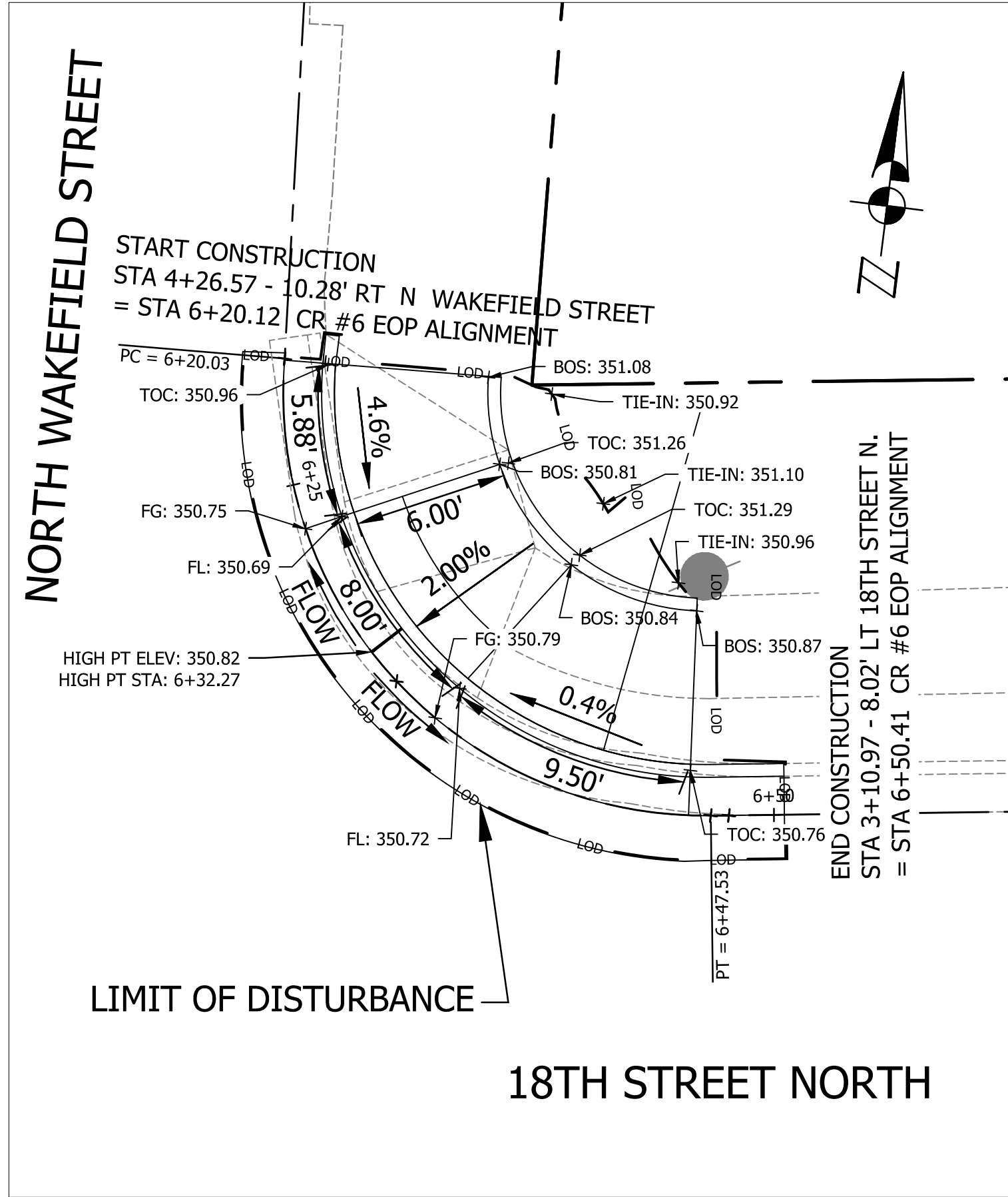
PLOTTED: NOVEMBER 25 2019

SCALE:

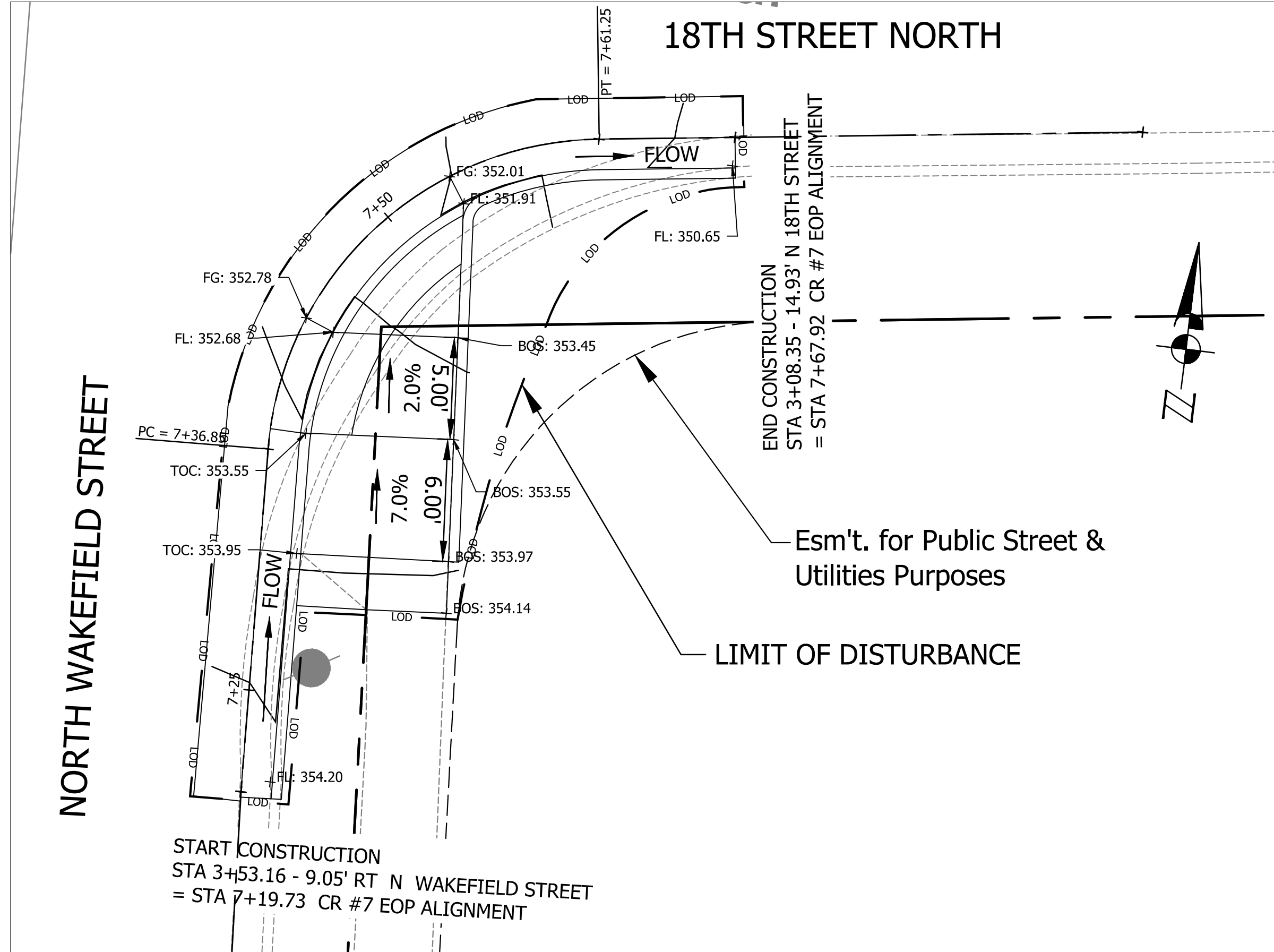




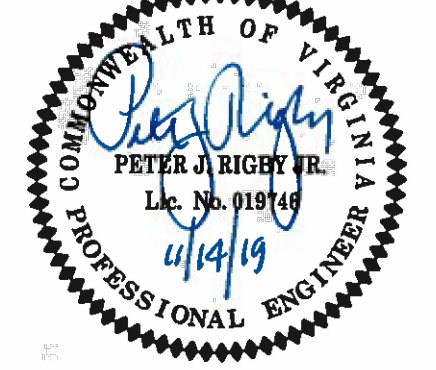
## CR #6



## CR #7



SEAL



APPROVALS	DATE
QUALITY CONTROL ENGINEER	11/13/2019
CONSTRUCTION MANAGEMENT SUPERVISOR	11/18/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 18, 2019

REVISIONS	DATE

18TH STREET NORTH  
P260

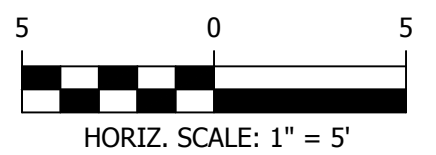
From 18th Street N. - N. Glebe Road  
To N. Wakefield Street

RAMP DETAILS III

DESIGNED: C. UMayAM / L. DELACRUZ  
DRAWN: C. UMayAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 25 2019

SCALE:





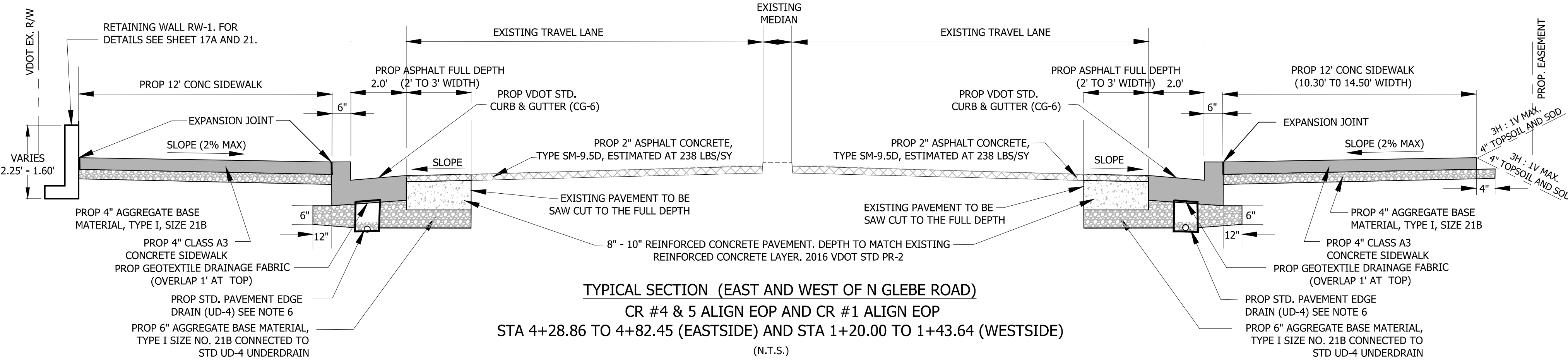
DESIGNED BY: CATALINO UYAMAM  
SUBSURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES

DATE: JULY 13, 2015 TO AUGUST 3, 2015

DATE: JULY 13, 2015 TO AUGUST 3, 2015

PROJECT MANAGER: GABRIELA VEGA  
SURVEYED BY: ARLINGTON COUNTY GOV., DES

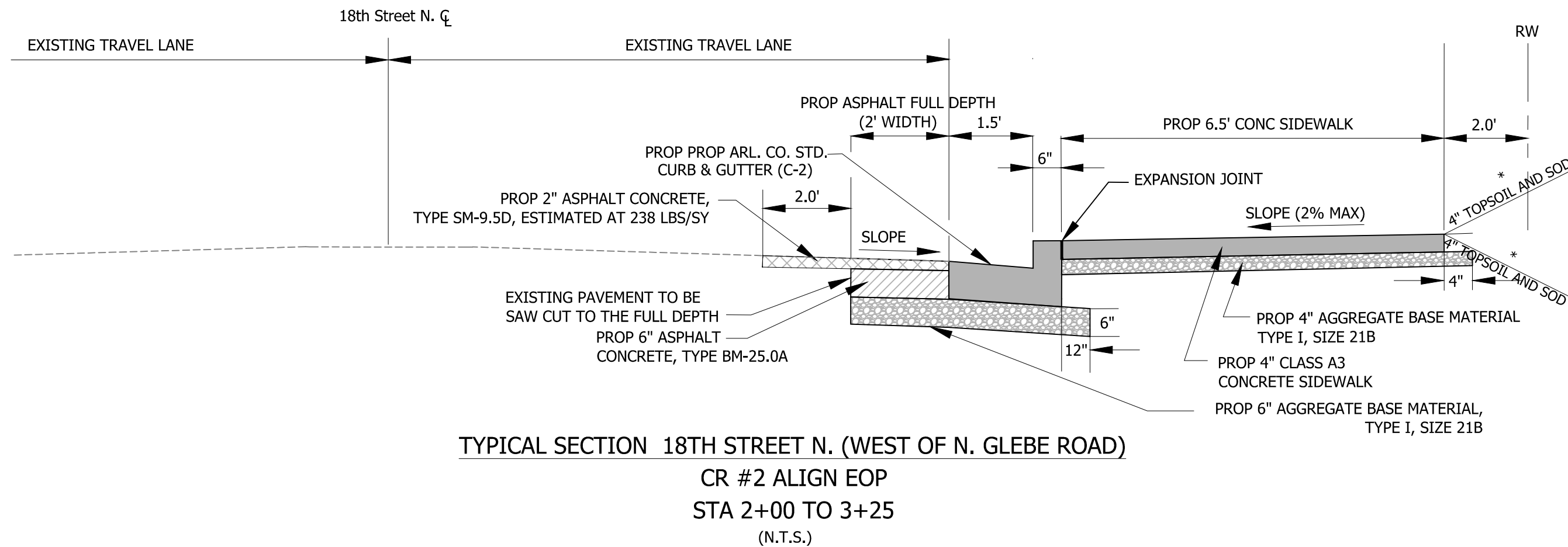
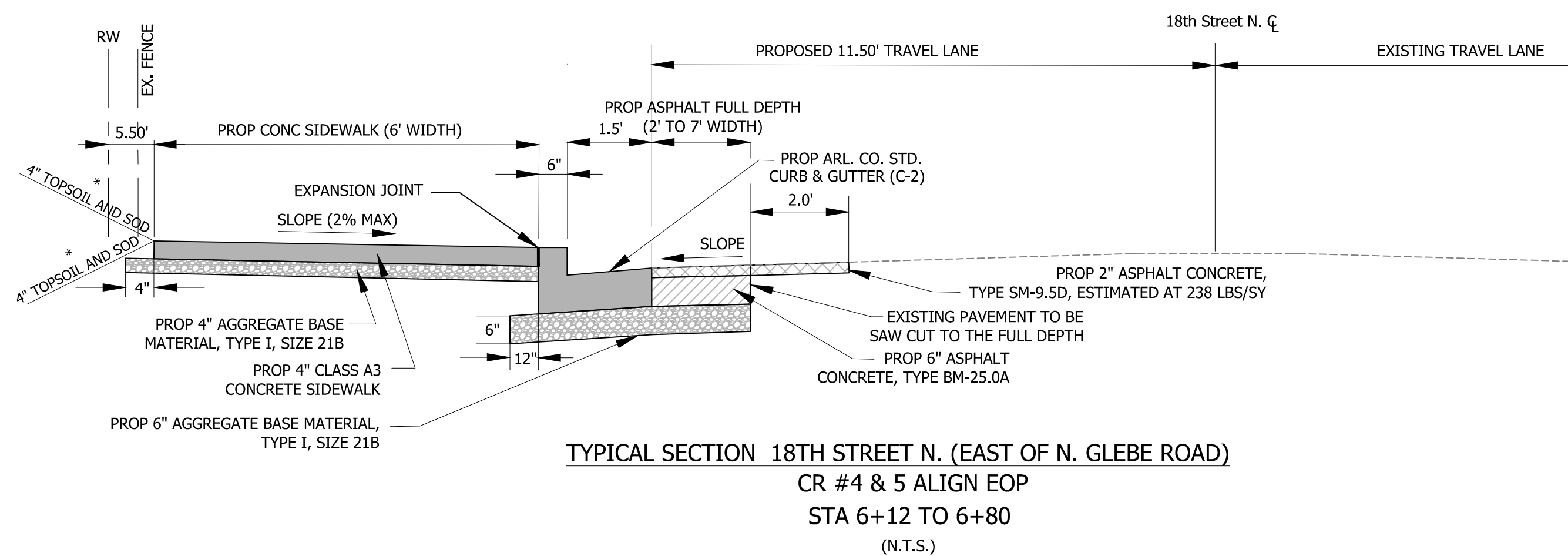
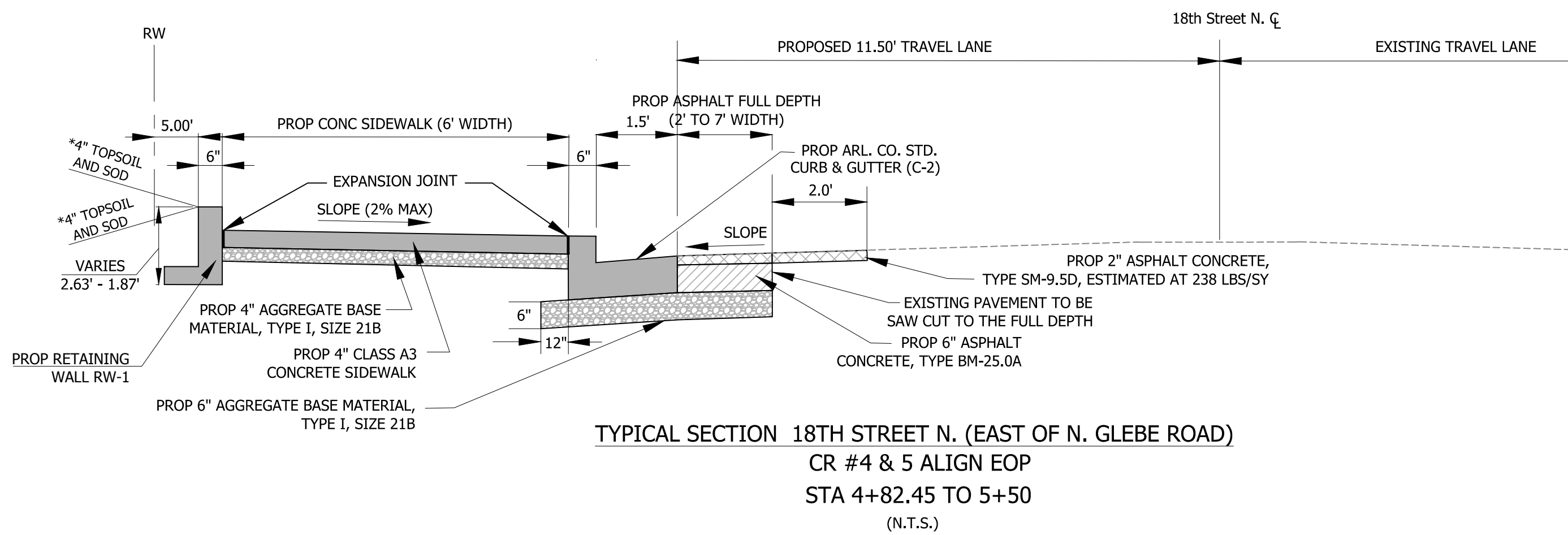
## TYPICAL SECTIONS IN VDOT ROW



### NOTES (VDOT ROW):

- FULL DEPTH CONCRETE PAVEMENT REPLACEMENT SHALL BE DONE IN ACCORDANCE WITH 2016 VDOT STANDARD PR-2. PROPOSED REINFORCED CONCRETE PAVEMENT SHALL MATCH EXISTING REINFORCED CONCRETE LAYER DEPTH.
- VARIABLE DEPTH AGGREGATE SUBBASE MATERIAL. TYPE 1, SIZE No 21B THICKNESS OF AGGREGATE SUBBASE MATERIAL SHALL BE 6" OR EXTEND TO THE BOTTOM OF THE EXISTING AGGREGATE BASE LAYER (WHICHEVER IS GREATER). AGGREGATE SUBBASE MATERIAL SHALL NOT BE LESS THAN 6" THICK BENEATH CURB AND GUTTER.
- PROVIDE 1' WIDE GRADING BENCH BEHIND PROPOSED SIDEWALKS WHEN SPACE ALLOWS.
- AS INDICATED IN TYPICAL SECTIONS, THE SUBBASE 21-B SHALL BE CONNECTED TO A VDOT STANDARDS UD-4 EDGE DRAIN LOCATED BENEATH THE PROPOSED CURB AND GUTTER, TAKEN TO A POSITIVE OUTFALL AT AN ADJACENT DRAINAGE STRUCTURE WHEN POSSIBLE.
- THE ADJACENT TRAVEL LANE SHALL BE MILLED TO A DEPTH OF 2" AND REPLACED WITH 2" ASPHALT CONCRETE TYPE SM-9.5D.
- 4" MINIMUM, PROVIDED ATTAINING MINIMUM 4" OF AGGREGATE ON TOP OF PIPE.

## TYPICAL SECTIONS IN COUNTY ROW

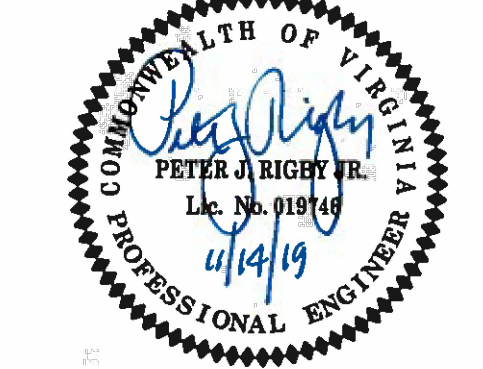


\* PROP. GRADE, PER CROSS SECTION PLANS



DEPARTMENT OF  
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SEAL



APPROVALS DATE  
QUALITY CONTROL ENGINEER 11/15/2019  
CONSTRUCTION MANAGEMENT SUPERVISOR 11/18/19  
WATER, SEWER, STREETS BUREAU CHIEF 11/19/19  
TRANSPORTATION DIRECTOR 11/19/19  
PROJECT MANAGER Nov 18, 2019

REVISIONS DATE

18TH STREET NORTH  
From 18th Street N. - N. Glebe Road  
To N. Wakefield Street  
TYPICAL SECTIONS

DESIGNED: C. UYAMAM / L. DELACRUZ  
DRAWN: C. UYAMAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 25 2019

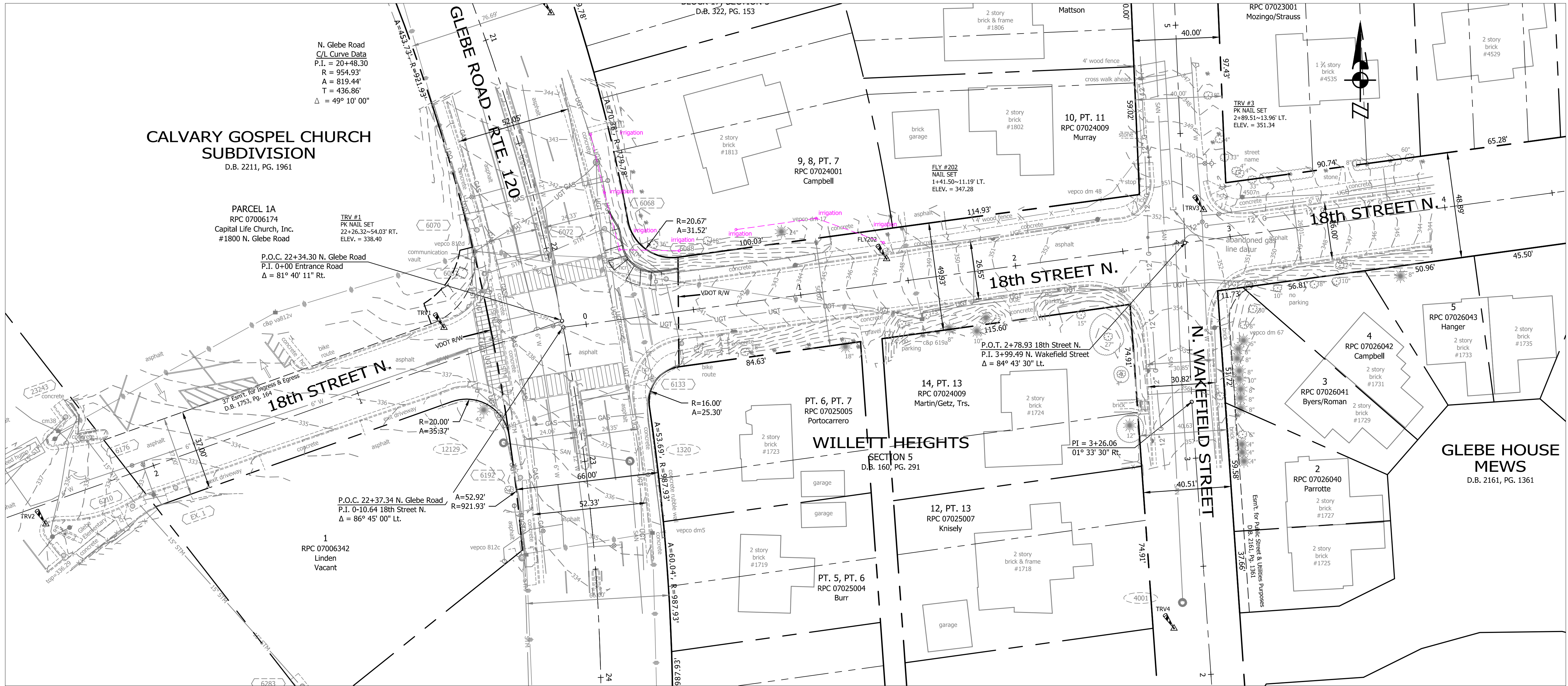
SCALE:

AS NOTED

SHEET 7 OF 29

18TH STREET NORTH





#### CONTROL DATA:

GPS SATELLITE DATA WAS COLLECTED FOR POINTS 1-7 ON JULY 17, 2015.

SCALE FACTOR OF 1.00006 WAS APPLIED TO POINTS 1 THROUGH 7 TO ACHIEVE PROJECT COORDINATE VALUES. THE SCALE POINT @ N7009718, E11878491 WAS USED AS THE SCALE BASE POINT.

TRAVERSE 1-7 WAS FIELD RUN ON JULY 17, 2015 AT ASSUMED COORDINATES AND ELEVATION. TRAVERSE POINTS WERE TRANSLATED AND ROTATED TO THE PROCESSED AND SCALED GPS POINTS HOLDING THE MIDPOINT OF THE LINE BETWEEN TRAVERSE 1 AND TRAVERSE 5 FOR POSITION AND TRAVERSE 1 FOR LINE.

THE RTK GPS ELEVATION FOR TRAVERSE 7 (331.81) WAS HELD FOR THE VERTICAL DATUM.

#### CONTROL POINTS

1,7011009.6689,11875794.0366,338.40,TRV1 (PK NAIL/CAP SET)  
2,7011009.0123,11875610.2677,336.76,TRV2 (PK NAIL/CAP SET)  
3,7011064.0314,11876144.6487,351.34,TRV3 (PK NAIL/CAP SET)  
4,7010870.8657,11876130.9920,355.27,TRV4 (PK NAIL/CAP SET)  
5,7010637.1009,11876170.6547,346.03,TRV5 (PK NAIL/CAP SET)  
6,7010618.6421,11875824.8189,324.35,TRV6 (PK NAIL/CAP SET)  
7,7010830.3536,11875894.8360,331.81,TRV7 (DRILL HOLE SET)  
202,7011041.34928,11875998.35988,347.28,FLY202 (NAIL/CAP SET)  
205,7011067.86649,11876363.46343,331.75,TRV205 (PK NAIL/CAP SET)  
217,7010618.50884,11876012.95985,334.35,TRV217 (PK NAIL/CAP SET)  
219,7010769.12214,11876006.66728,343.44,TRV219 (PK NAIL/CAP SET)  
298,7011154.86226,11875843.50081,346.23,FLY298 (NAIL/CAP SET)

#### GENERAL NOTES

- THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ROBERT L. FRANCA, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED FROM 7/13/2015 TO 8/3/2015; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983.
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988.
- CONTOUR INTERVAL: 1'
- BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

#### STORM TABULATION

#5853  
TOP = 353.10  
18" RCP INV. OUT = 348.46 (6070)

#6068  
TOP = 341.50  
15" RCP INV. IN = 336.89 (6088)  
18" RCP INV. OUT = 337.00 (6072)

#6070  
TOP = 340.78  
18" RCP INV. IN = 336.82 (5853)  
18" RCP INV. OUT = 336.72 (6087)

#6072  
TOP = 340.79  
18" RCP INV. IN = 336.69 (6068)  
18" RCP INV. OUT = 336.66 (6087)

#6087  
TOP = 339.89  
18" RCP INV. IN = NO INV.  
18" RCP INV. IN = 335.59 (6070)  
24" RCP INV. OUT = 335.44 (6192)

#6088  
TOP = 340.41  
15" RCP INV. IN = 337.40 (6133)  
15" RCP INV. OUT = 337.26 (6068)

#6133  
TOP = 340.02  
NO INV. TRASH

#6192  
TOP = 335.77  
24" RCP INV. IN = 331.57 (6087)  
24" RCP INV. OUT = 331.50 (6374)

#6374  
TOP = 328.91  
24" RCP INV. IN = 323.25 (6192)

#### SANITARY TABULATION

#1320  
TOP = 336.81  
C/L INV. = 328.52

#3999  
TOP = 337.86  
C/L INV. = 331.56

#4001  
TOP = 355.80  
C/L INV. = 346.41

#12129  
TOP = 336.48  
C/L INV. = 331.09

#### UTILITIES

THE UTILITY INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM INFORMATION RECEIVED FROM THE UTILITY COMPANIES AND IN SOME CASES FROM A UTILITY LOCATOR SERVICE COMPANY. THE DEPARTMENT OF ENVIRONMENTAL SERVICES DOES NOT GUARANTEE THAT THE UTILITY INFORMATION SHOWN ON THE PLANS IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

ALL EXISTING UNDERGROUND UTILITIES SHALL BE MARKED IN THE FIELD BY MISS UTILITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE FIELD MARKING OF UTILITIES WITH MISS UTILITY.

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF THESE UTILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE DISCONNECTED, PRIOR TO CLEARING THE SITE OF TREES, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS INDICATED ON THE CONSTRUCTION PLANS.

FOR MARKING LOCATIONS OF EXISTING UNDERGROUND UTILITY FACILITIES (GAS, TELEPHONE, ELECTRIC AND CABLE TV), CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 OR 1-800-257-7777 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

#### UTILITY COMPANIES

COMCAST CABLE COMMUNICATIONS  
DOMINION VIRGINIA POWER  
PEPCO  
WASHINGTON GAS  
VERIZON  
MISS UTILITY

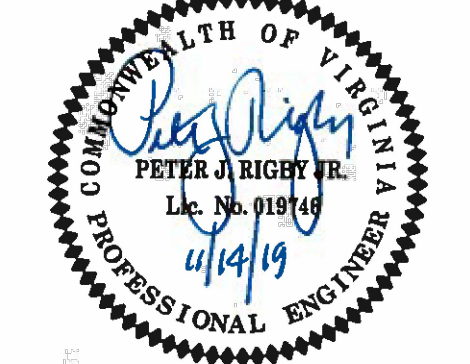
#### OFFICE NUMBER

(703) 567-4191  
(703) 838-2210  
(202) 872-2845  
(703) 750-1000  
(703) 954-6611  
1-800-257-7777

#### EMERGENCY NUMBER

(703) 567-4600  
(703) 934-9660  
(202) 833-7500  
(703) 750-4831  
(703) 954-6611  
1-800-257-7777

#### SEAL



#### APPROVALS

DATE 11/13/2019  
QUALITY CONTROL ENGINEER  
CONSTRUCTION MANAGEMENT SUPERVISOR  
WATER, SEWER, STREETS BUREAU CHIEF  
TRANSPORTATION DIRECTOR  
PROJECT MANAGER

#### REVISIONS

REVISIONS	DATE

#### 18TH STREET NORTH

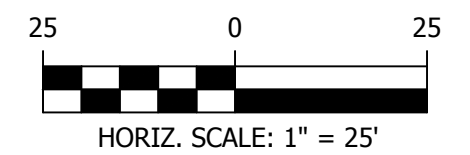
From 18th Street N. - N. Glebe Road  
To N. Wakefield Street

#### EXISTING CONDITIONS

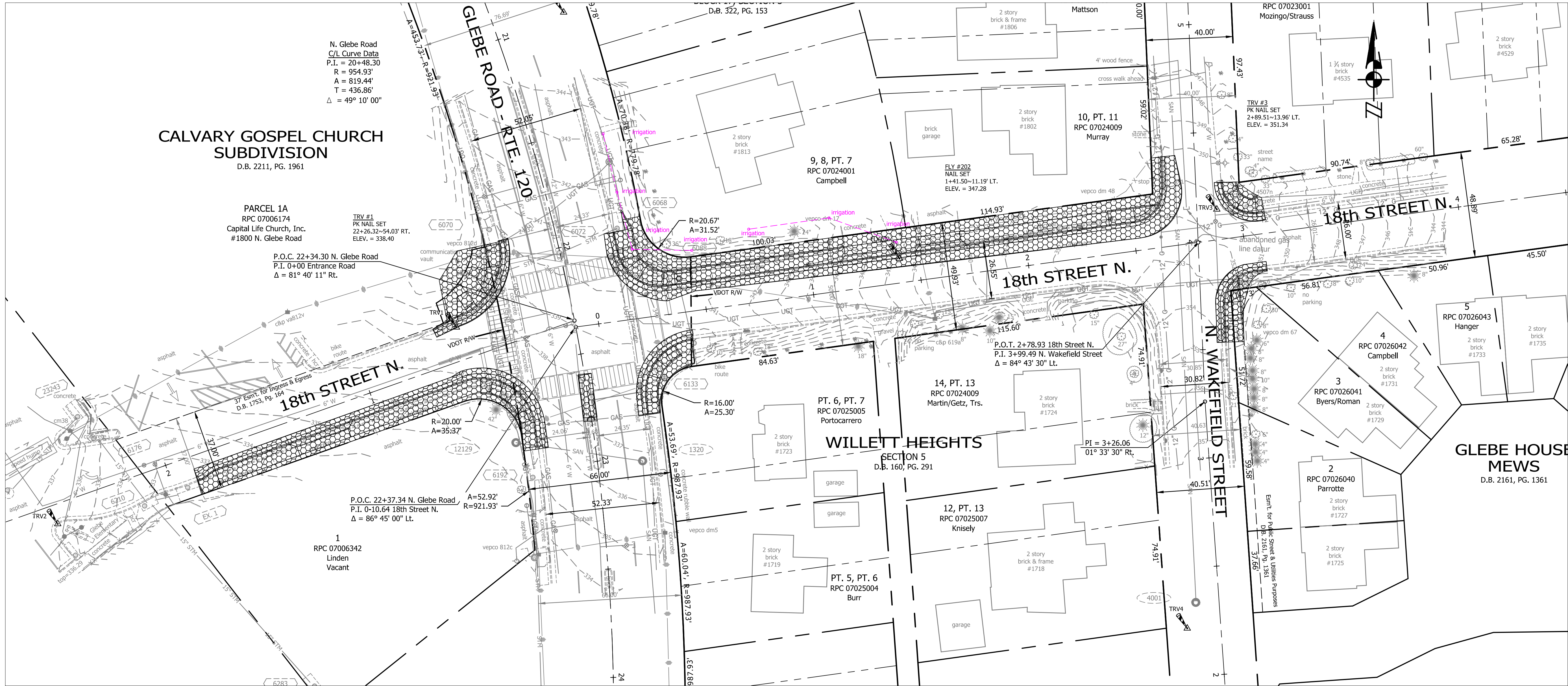
DESIGNED: C. UYAMAY / L. DELACRUZ  
DRAWN: C. UYAMAY / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 25 2019

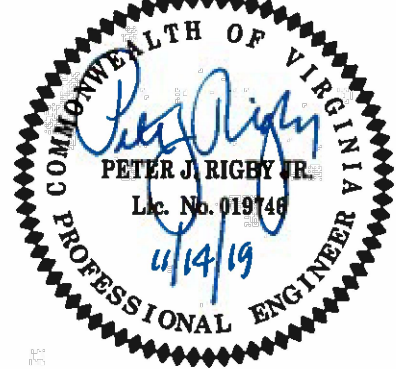
#### SCALE:







SEAL



APPROVALS	DATE
QUALITY CONTROL ENGINEER	11/13/2019
CONSTRUCTION MANAGEMENT SUPERVISOR	11/18/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 18, 2019

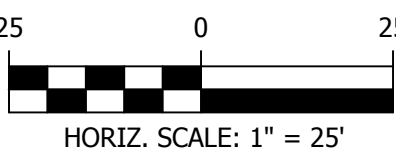
REVISIONS	DATE

18TH STREET NORTH  
From 18th Street N. - N. Glebe Road  
To N. Wakefield Street  
DEMOLITION PLAN

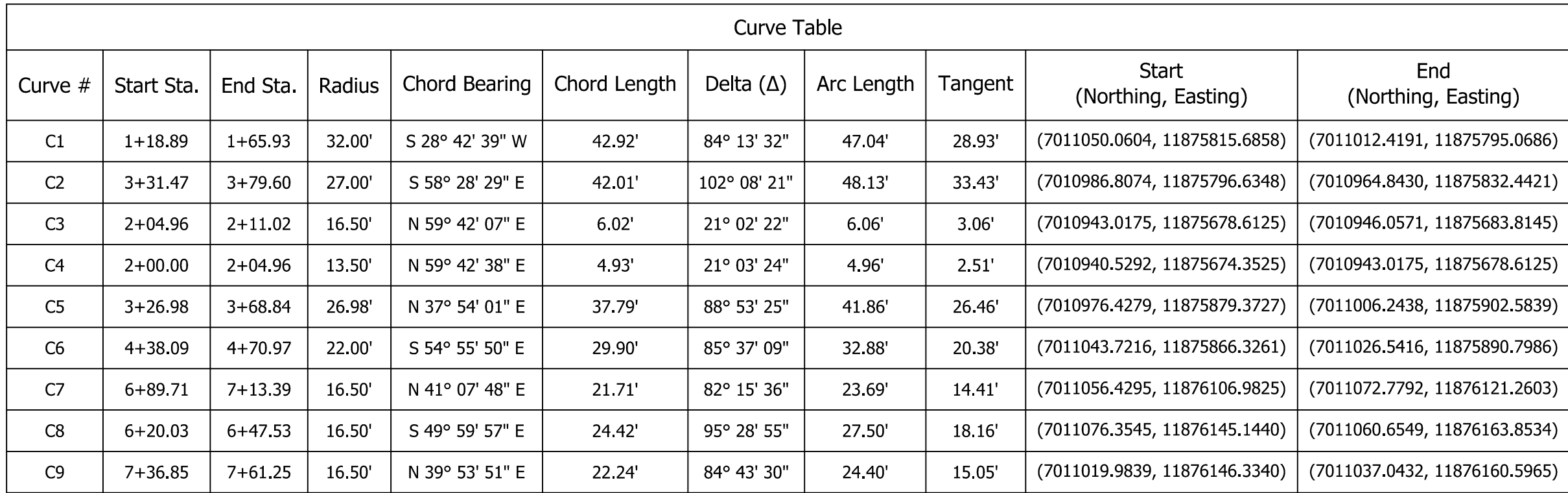
DESIGNED: C. UYAMAM / L. DELACRUZ  
DRAWN: C. UYAMAM / L. DELACRUZ  
CHECKED: P. RIGBY  
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 25 2019

SCALE:





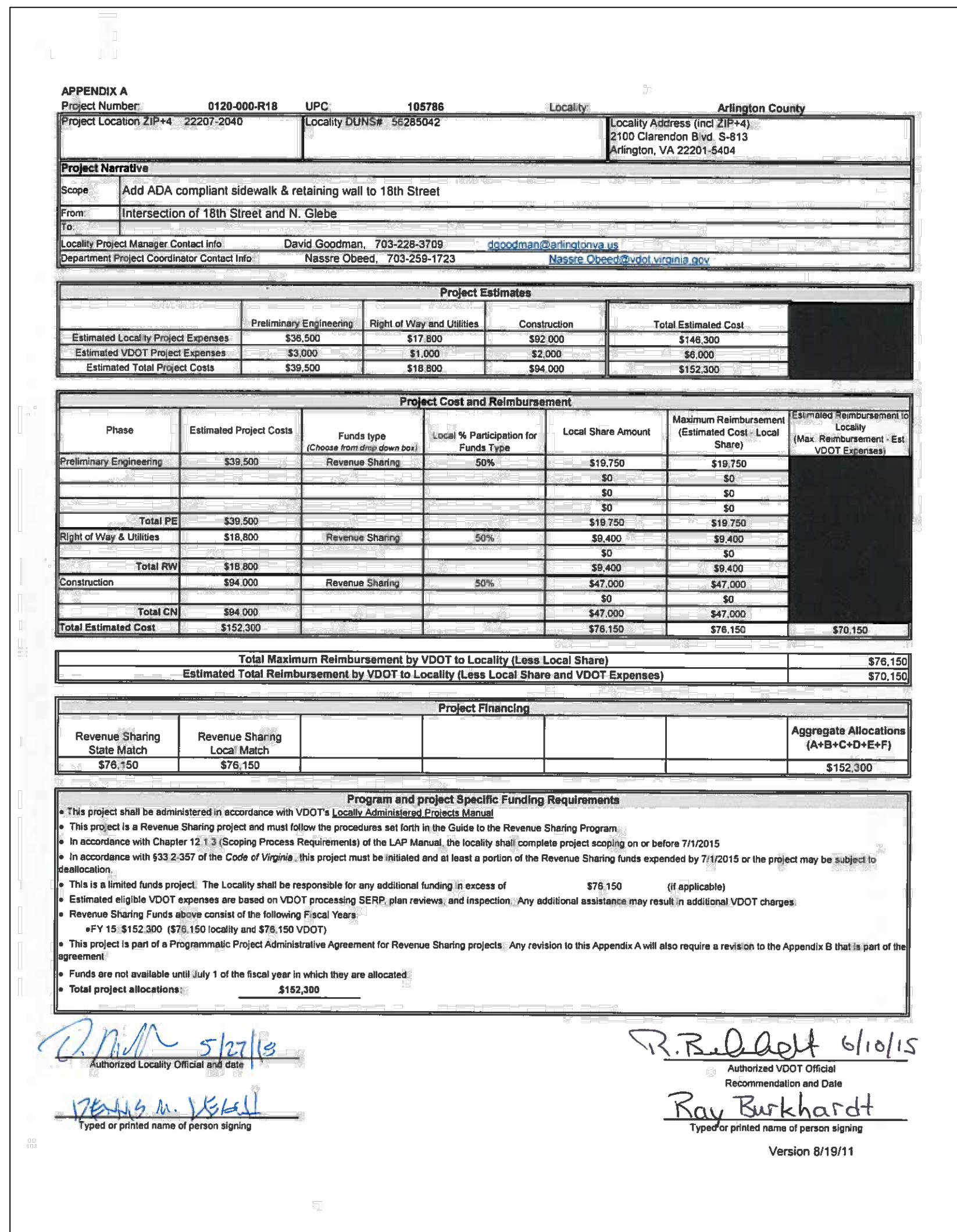
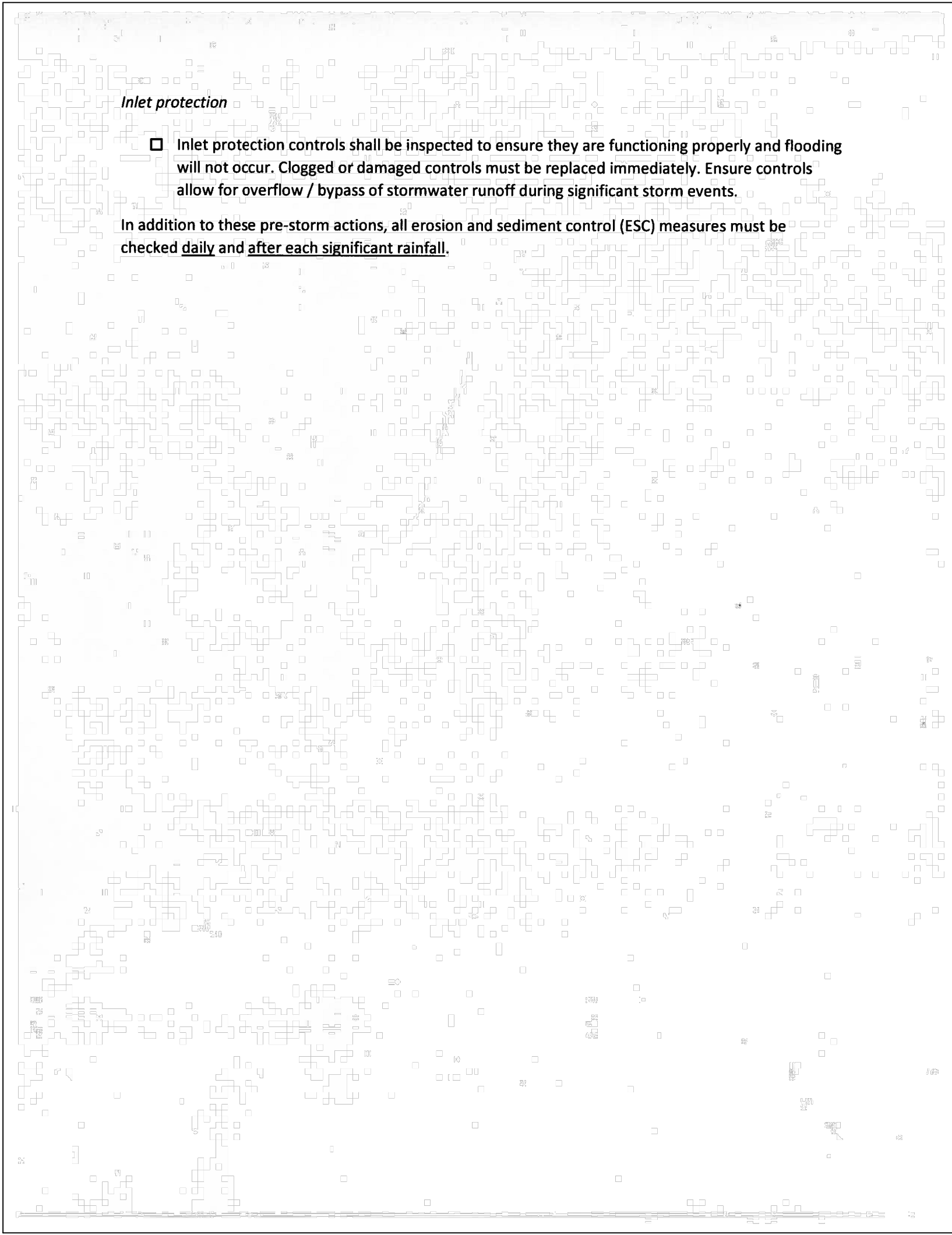
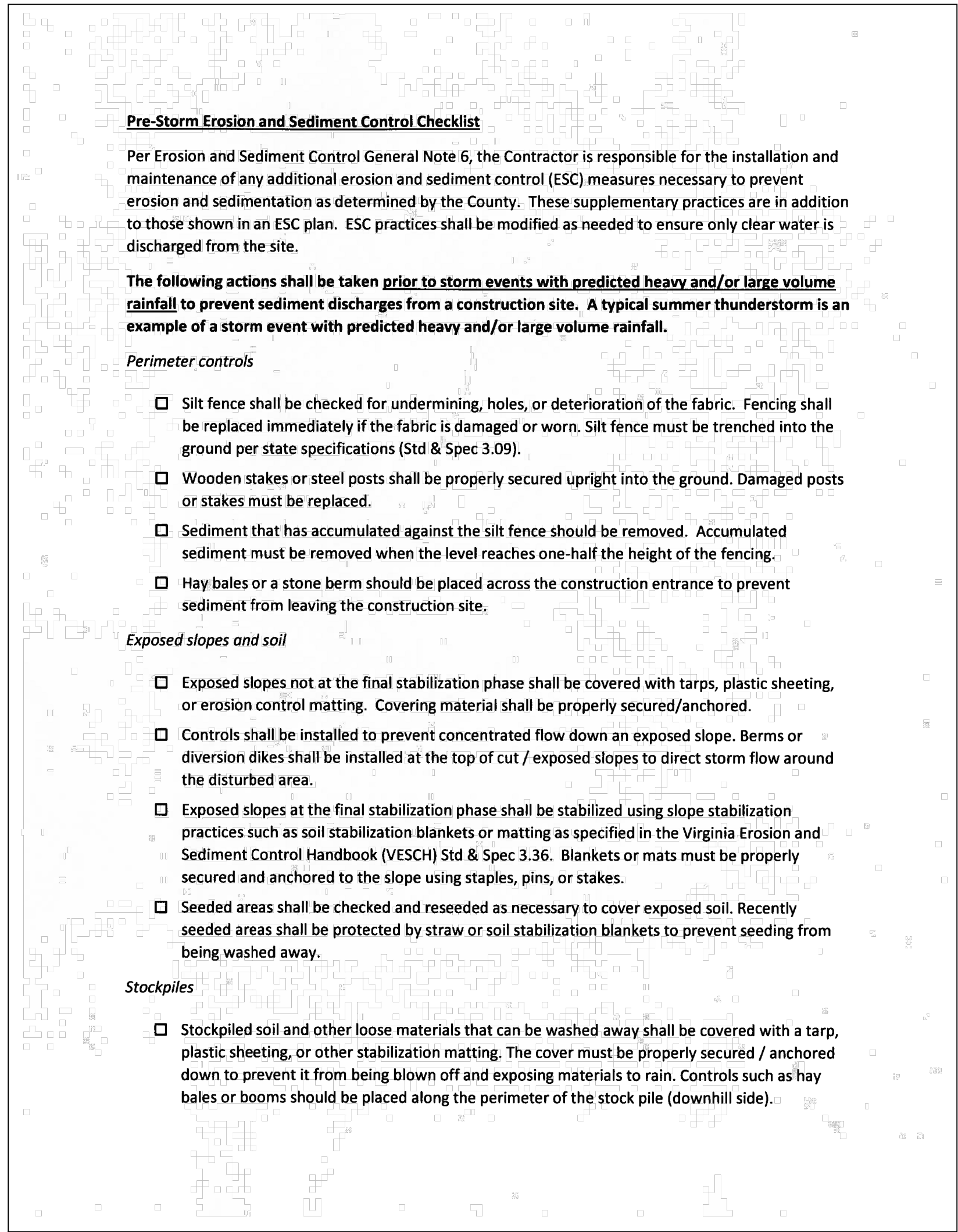
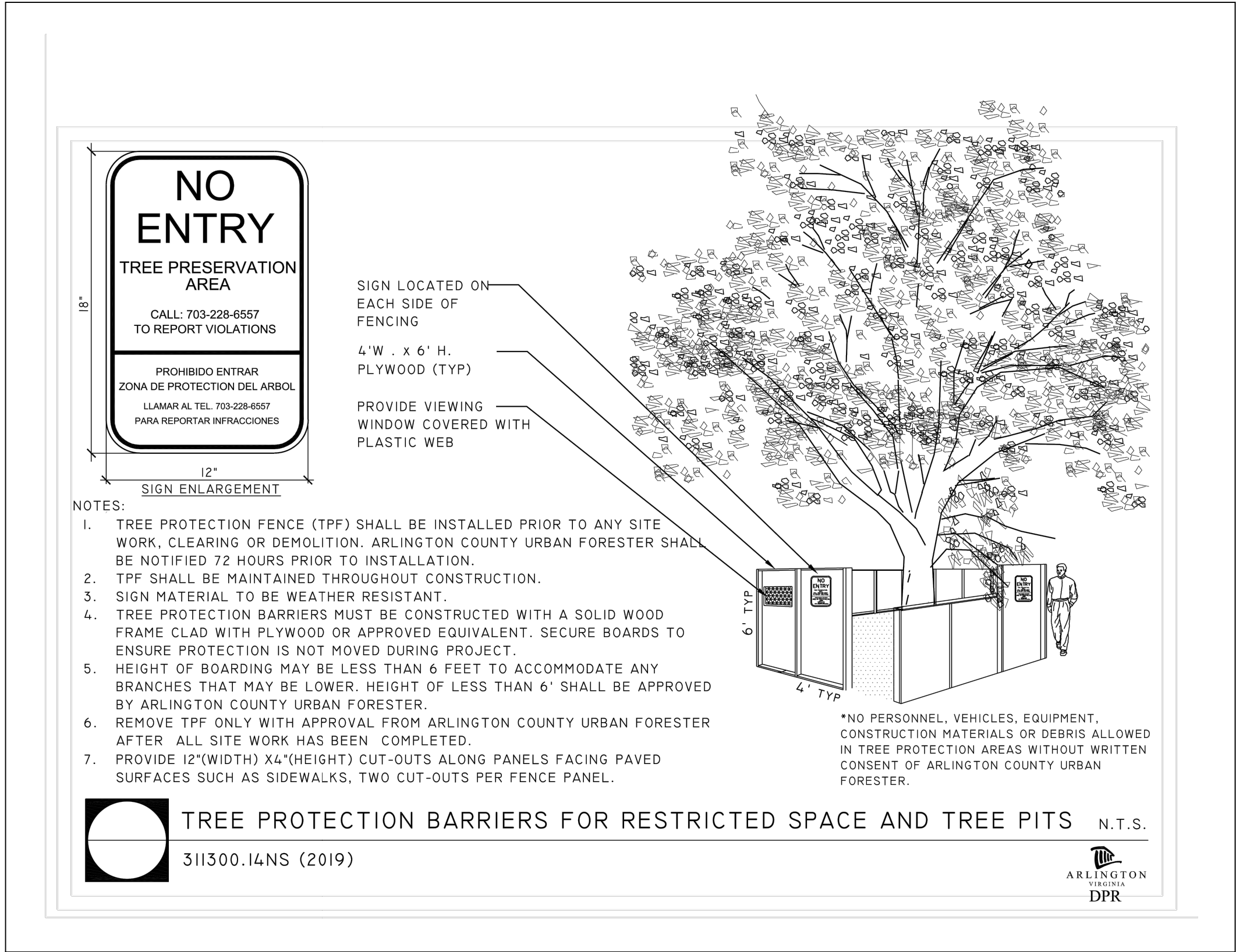
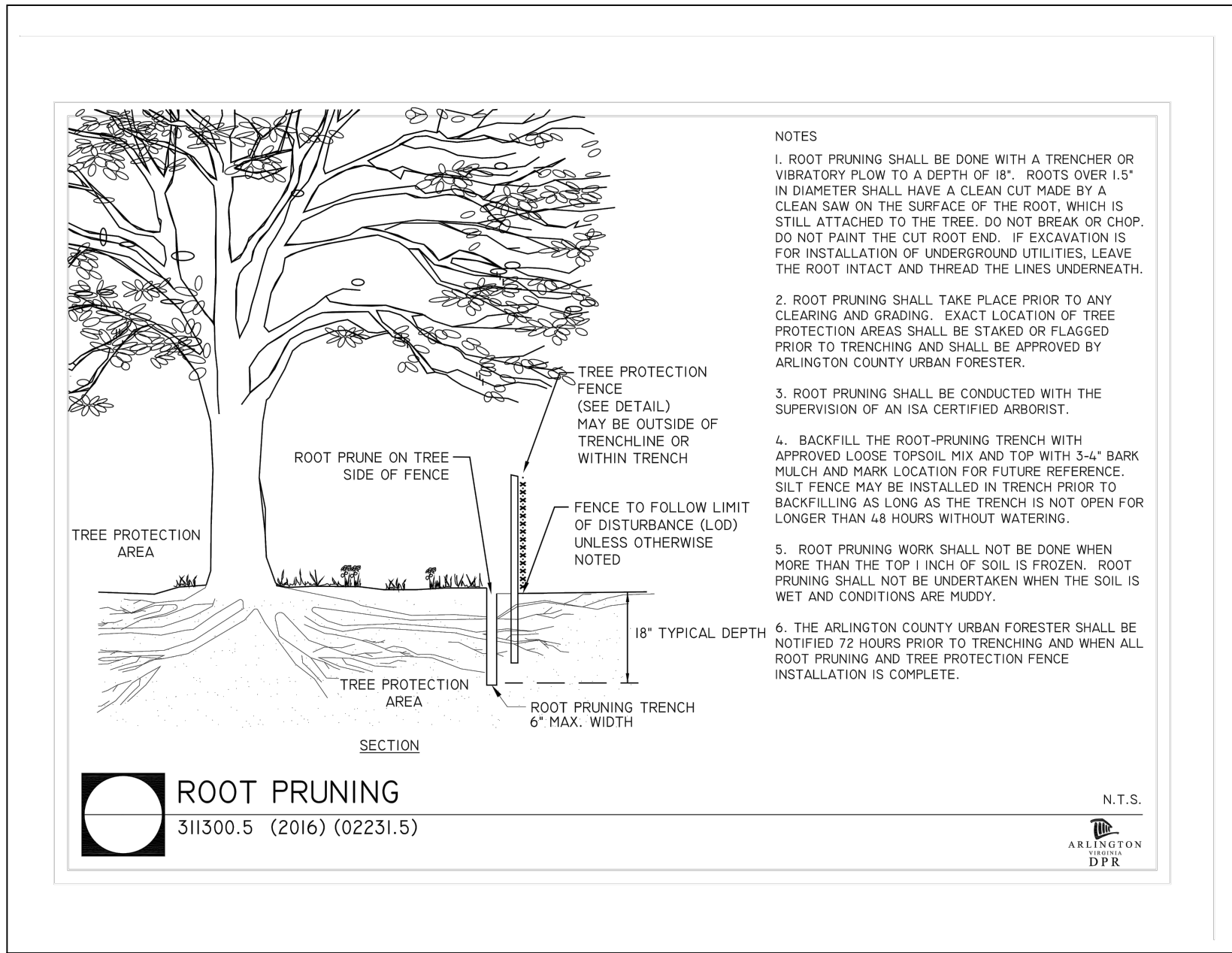
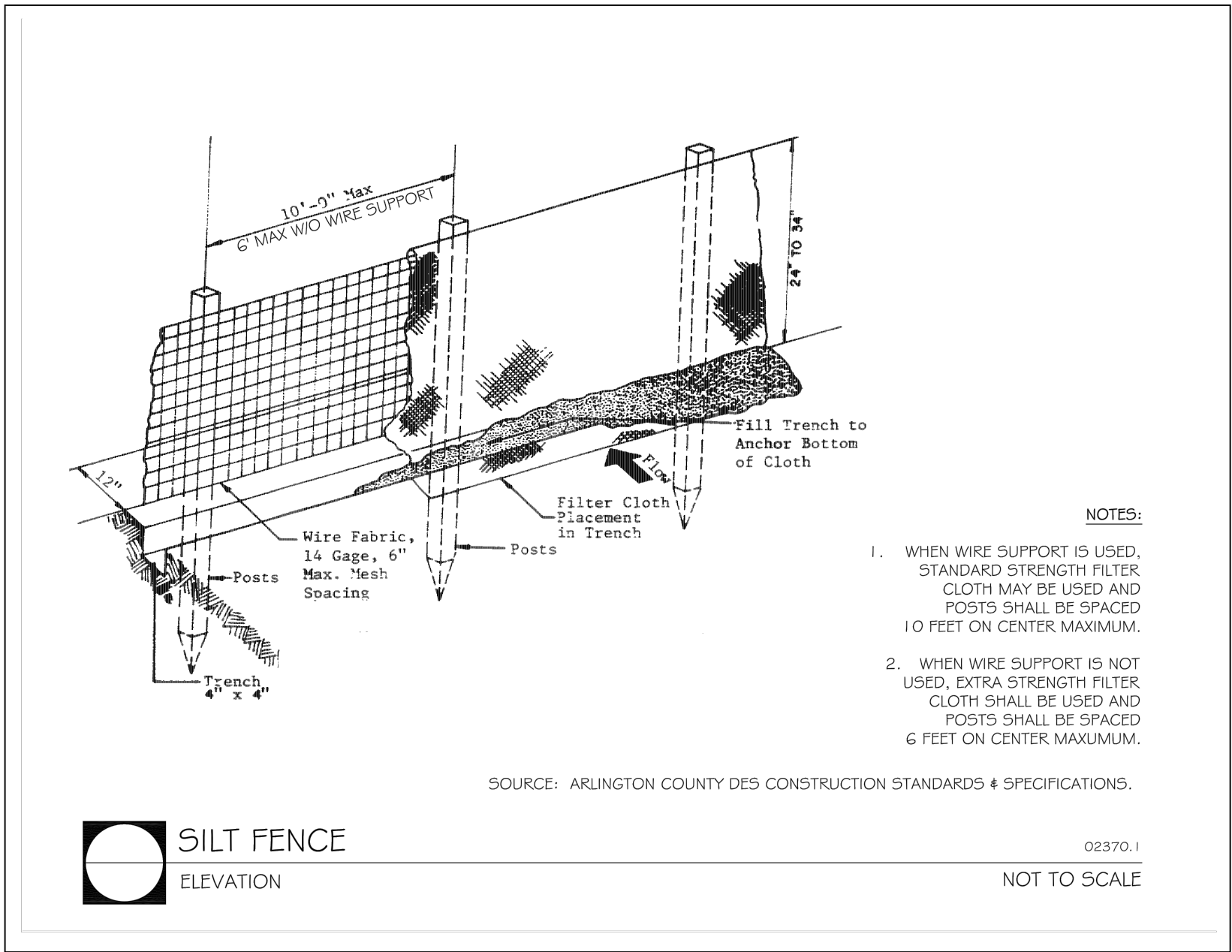


Curve Table										
Curve #	Start Sta.	End Sta.	Radius	Chord Bearing	Chord Length	Delta (Δ)	Arc Length	Tangent	Start (Northing, Easting)	End (Northing, Easting)
C10	4+18.12	4+39.78	14.50'	S 54° 55' 51" E	19.71'	85° 37' 07"	21.67'	13.43'	(7011046.6821, 11875876.4297)	(7011035.3590, 11875892.5593)









REVISIONS	DATE

