



ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

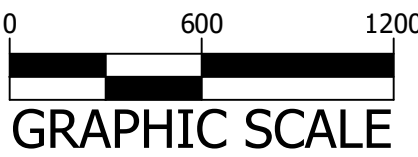
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
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OWNER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

DIVISION OF TRANSPORTATION & DEVELOPMENT/
TRANSPORTATION PLANNING BUREAU
2100 CLARENDON BOULEVARD, SUITE 900,
ARLINGTON, VA 22201
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CONTRACTOR
TO BE DETERMINED

LOCATION MAP



CONSTRUCTION DRAWINGS FOR:
N. PERSHING DR. & WASHINGTON BLVD.
N. PERSHING DR. @ WASHINGTON BLVD.
PROJECT NUMBER: DC19

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

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

STORMWATER AND ENVIRONMENTAL PROTECTION

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

TREE PROTECTION

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

TRAFFIC CONTROL

- 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.
- 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.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 5 BUSINESS DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
- WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
- 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 REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
- 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

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

FIRE DEPARTMENT NOTES:

- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.

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SWM # 20-0094

ADT

N PERSHING DRIVE : 8,500 VPD (2018)
WASHINGTON BLVD. : 34,000 VPD (2018)
7TH STREET N. : 2,800 VPD (2018)

STREET CLASSIFICATION

N PERSHING DRIVE : MINOR ARTERIAL
WASHINGTON BLVD : PRINCIPAL ARTERIAL
7TH STREET N. : NEIGHBORHOOD MINOR

POSTED SPEED

N PERSHING DRIVE : 25 MPH
WASHINGTON BLVD.: 30 MPH
7TH STREET N. : 25 MPH

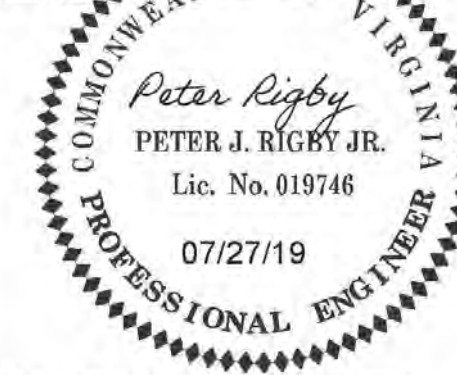
AUTO TURN (TURNING MOVEMENT) USED: 2011 AASHTO CITY BUS



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SEAL



APPROVALS DATE

Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Takab 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
Oliver 08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 8/6/20
TRANSPORTATION DIRECTOR
Oliver 8.6.2020
PROJECT MANAGER

REVISIONS DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

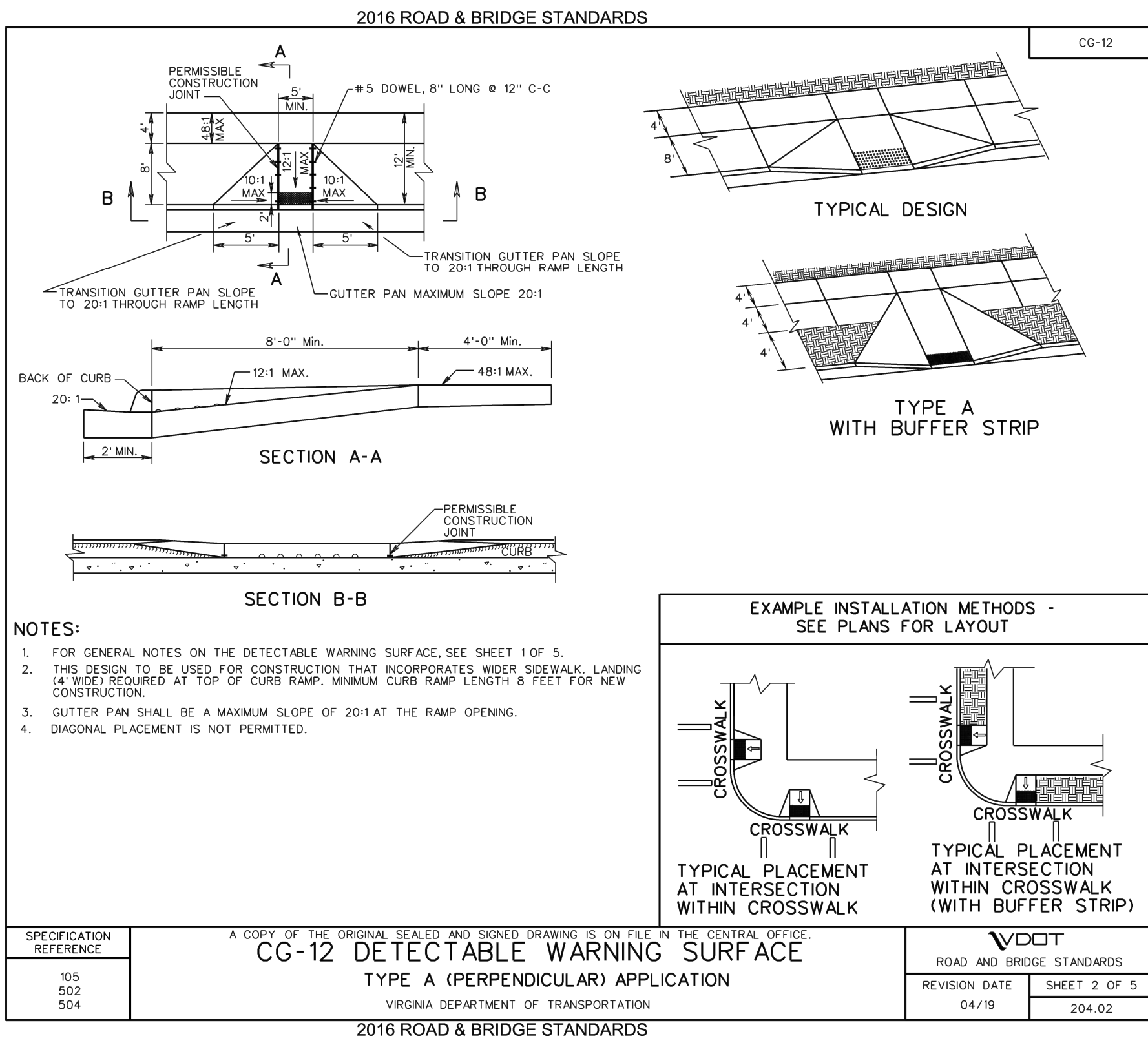
COVER

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

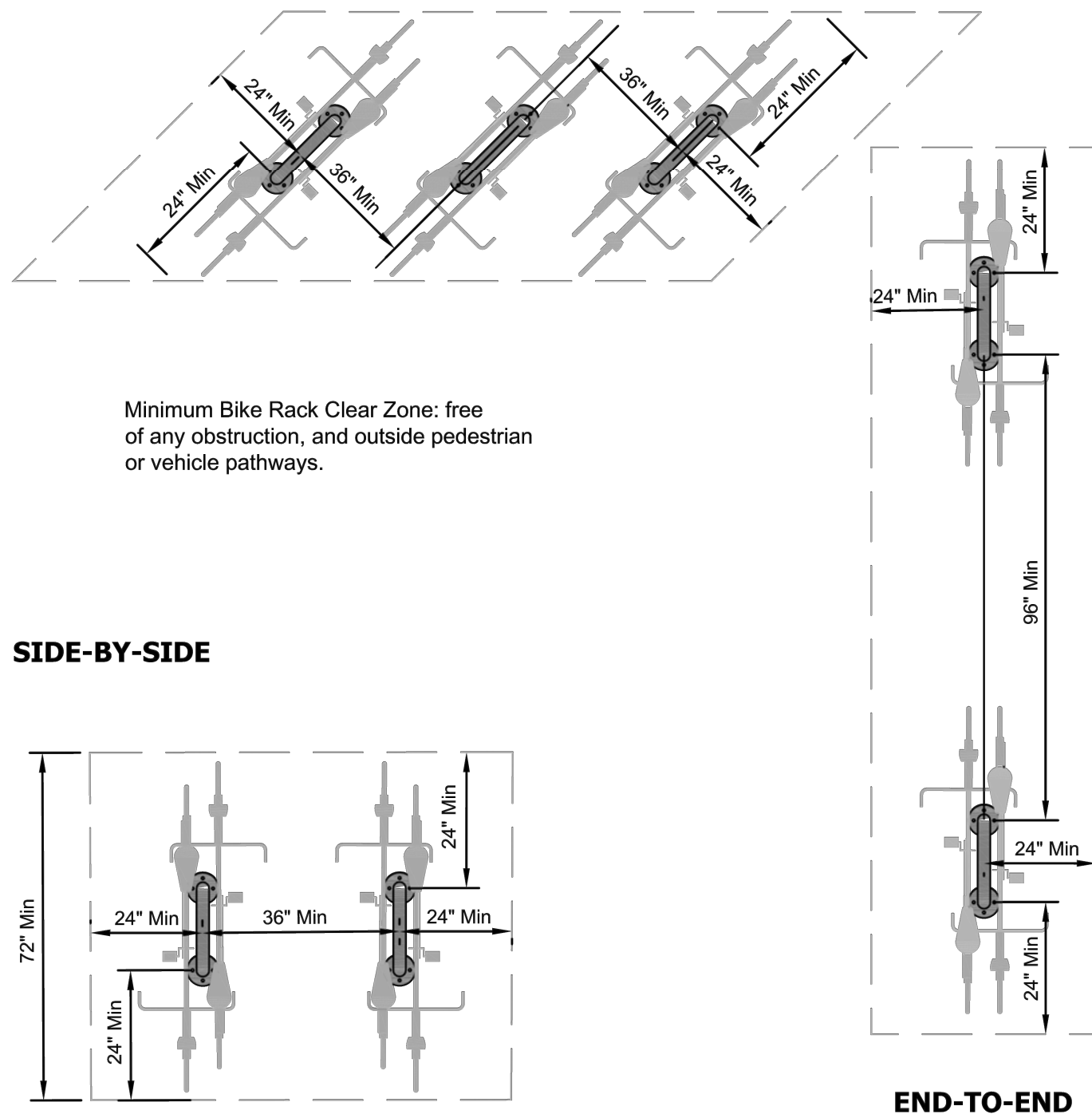
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SCALE: AS NOTED

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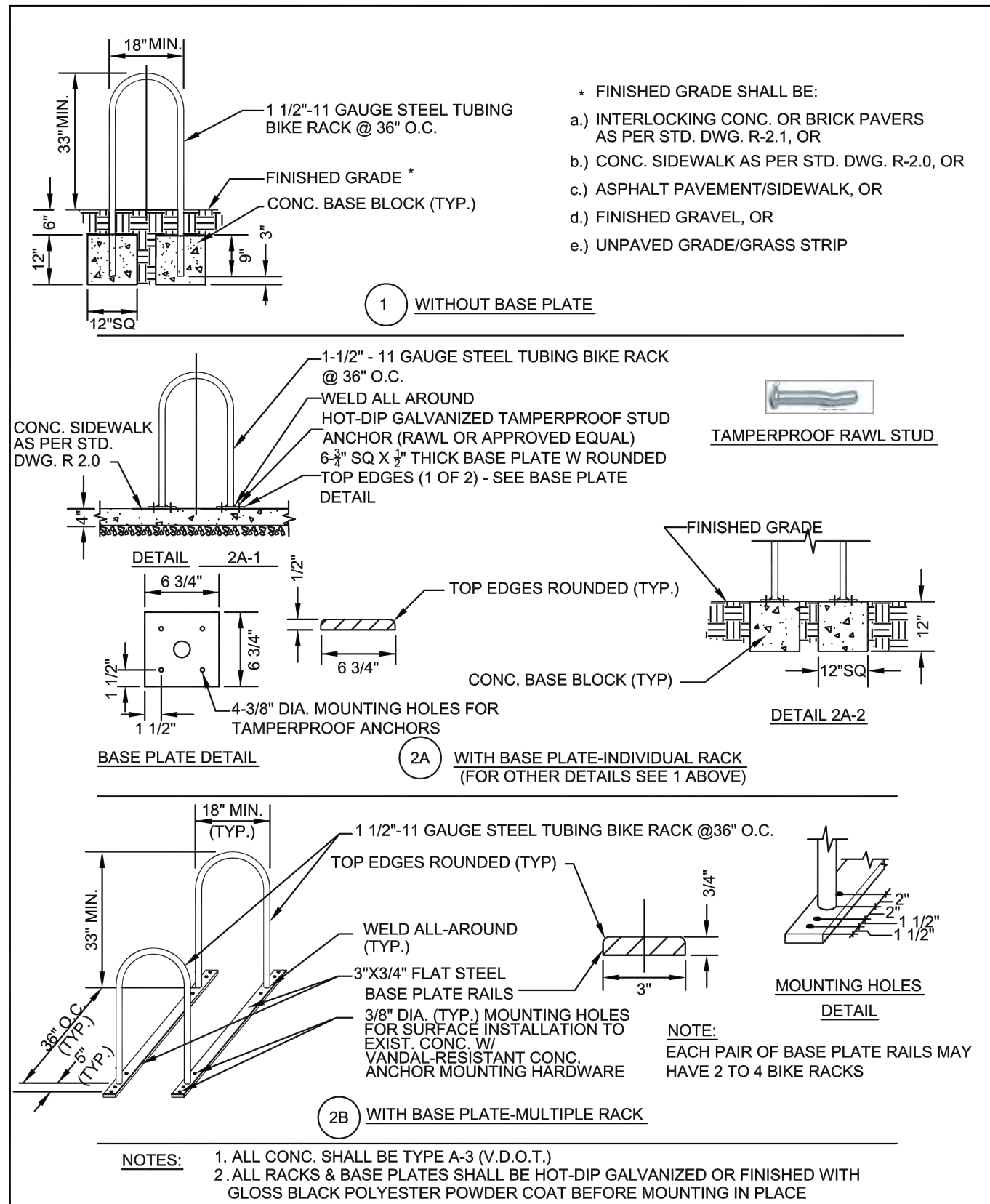
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BIKE RACK LAYOUT

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

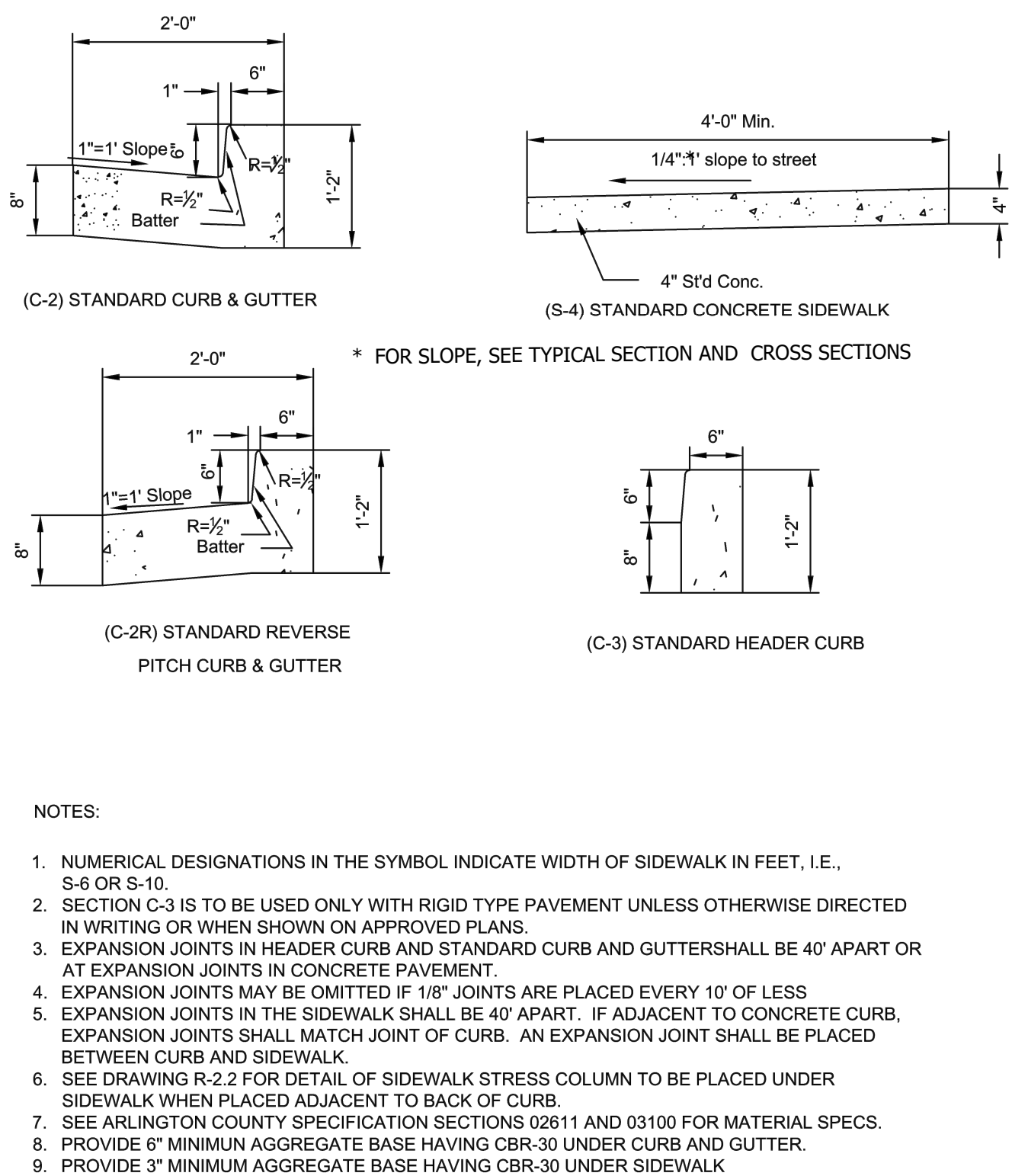
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BIKE RACK

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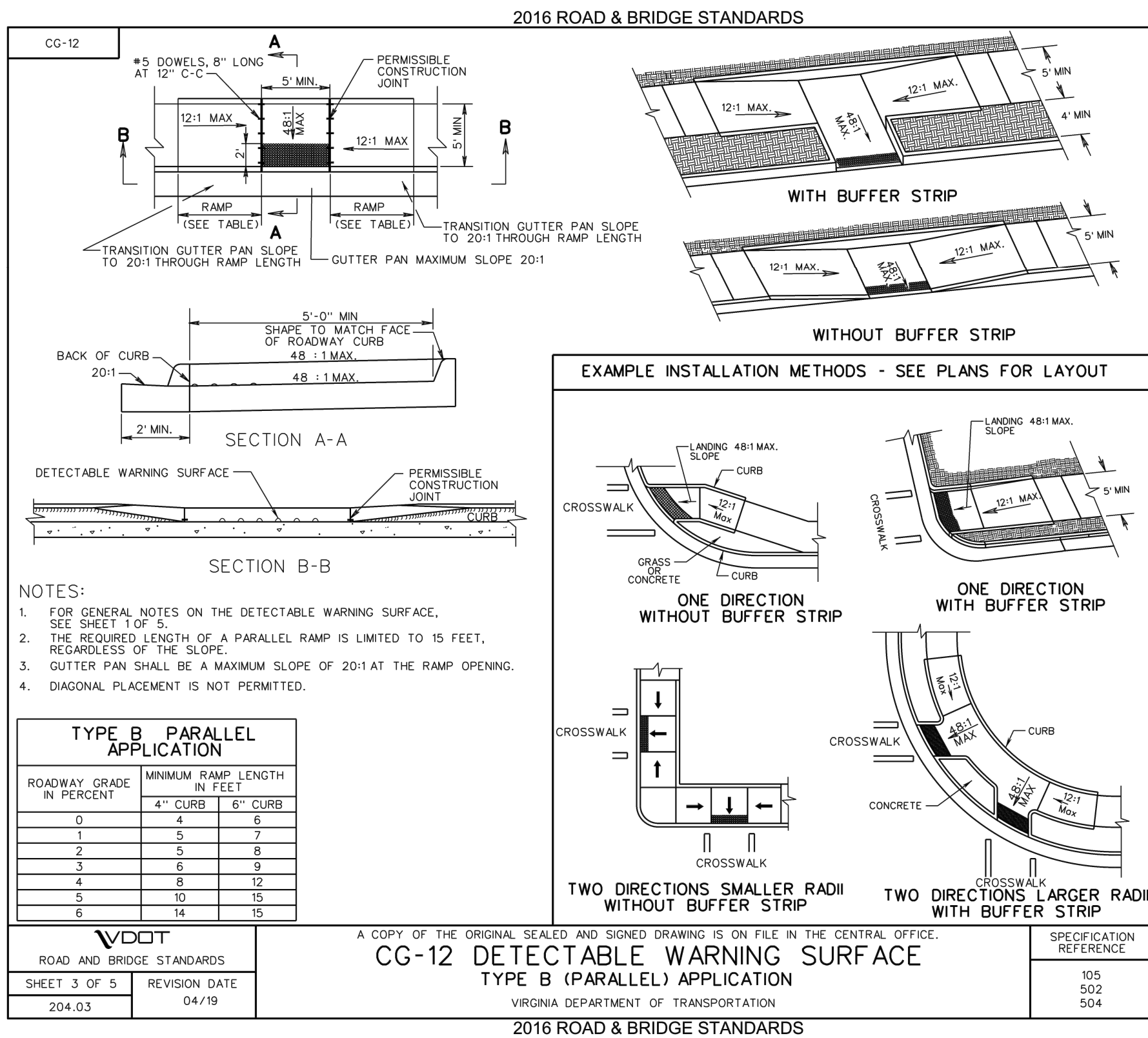
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CONCRETE CURB & GUTTER AND SIDEWALK

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

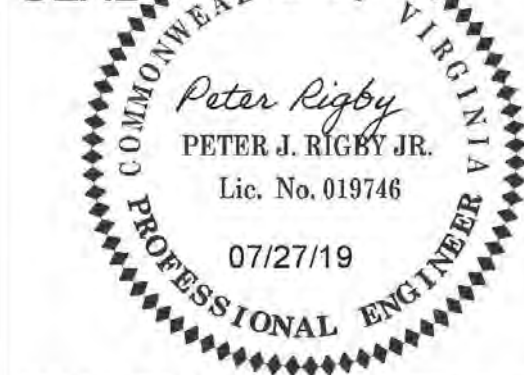
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SEAL



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Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Taktak 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 8/6/20
TRANSPORTATION DIRECTOR
Oliver J. Smith 8.6.2020
PROJECT MANAGER

REVISIONS DATE

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

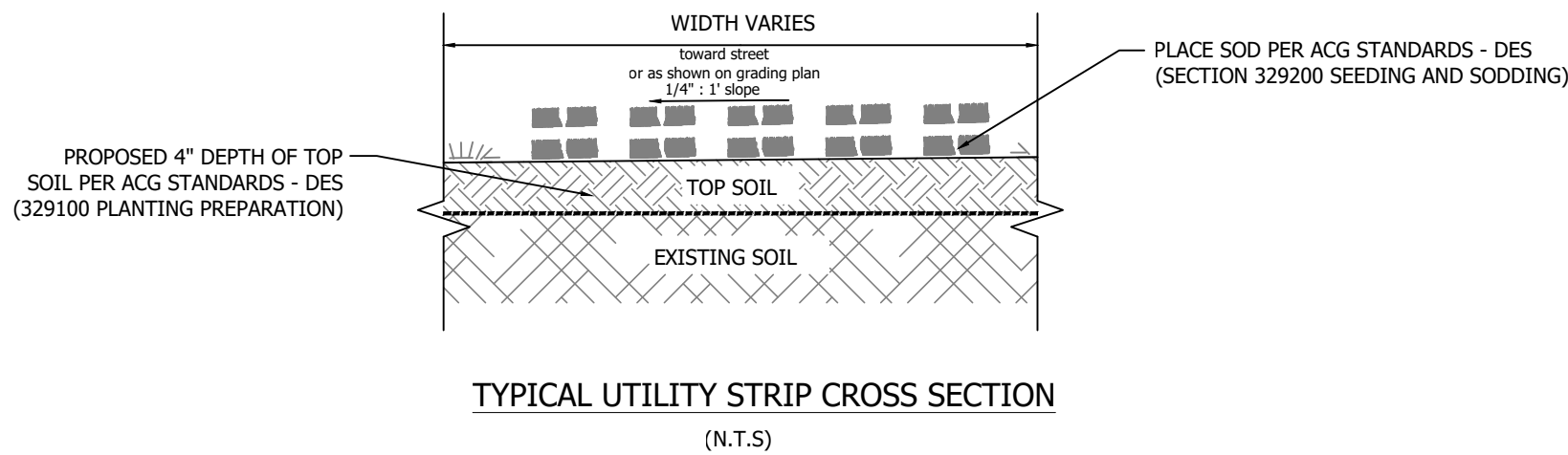
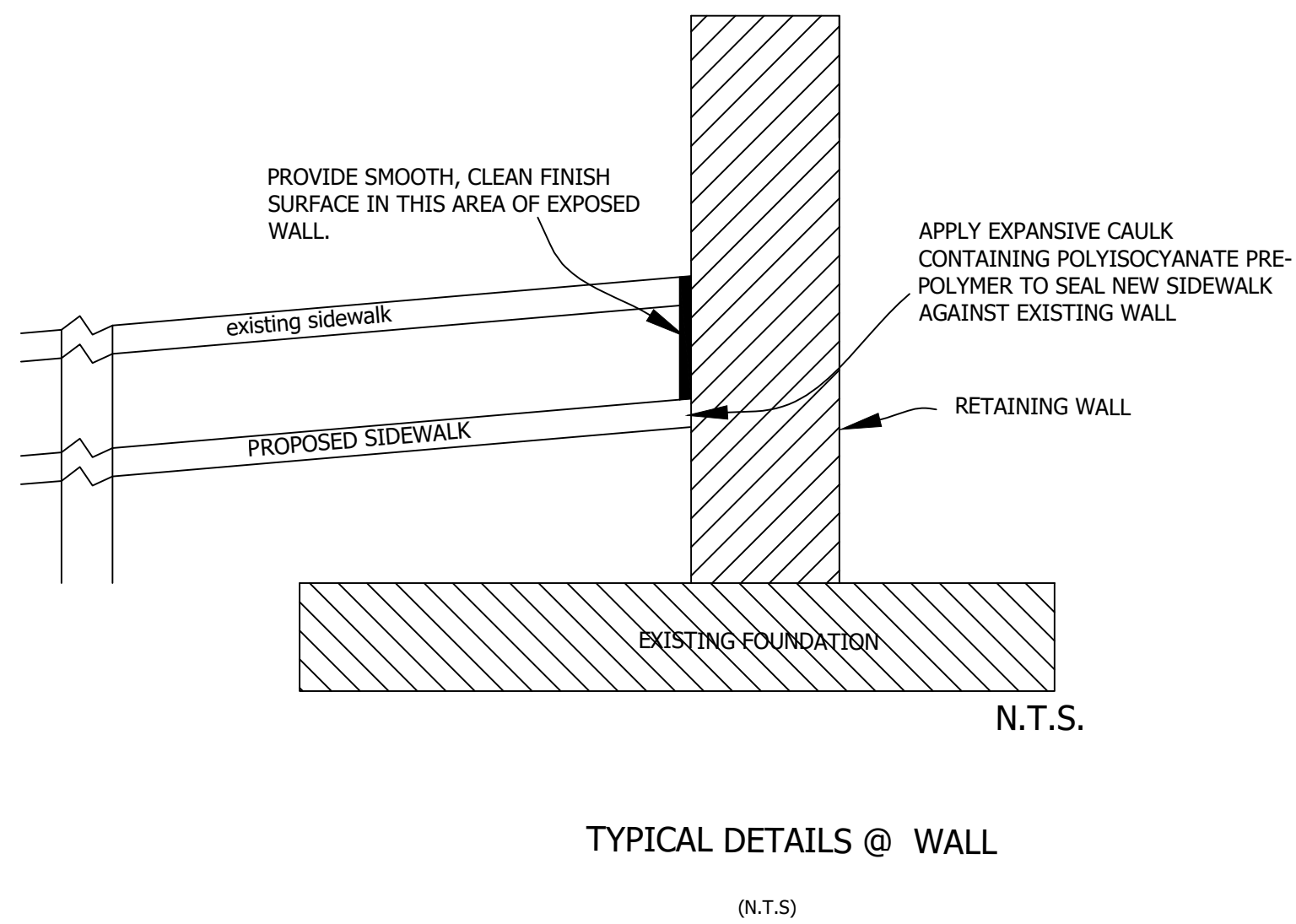
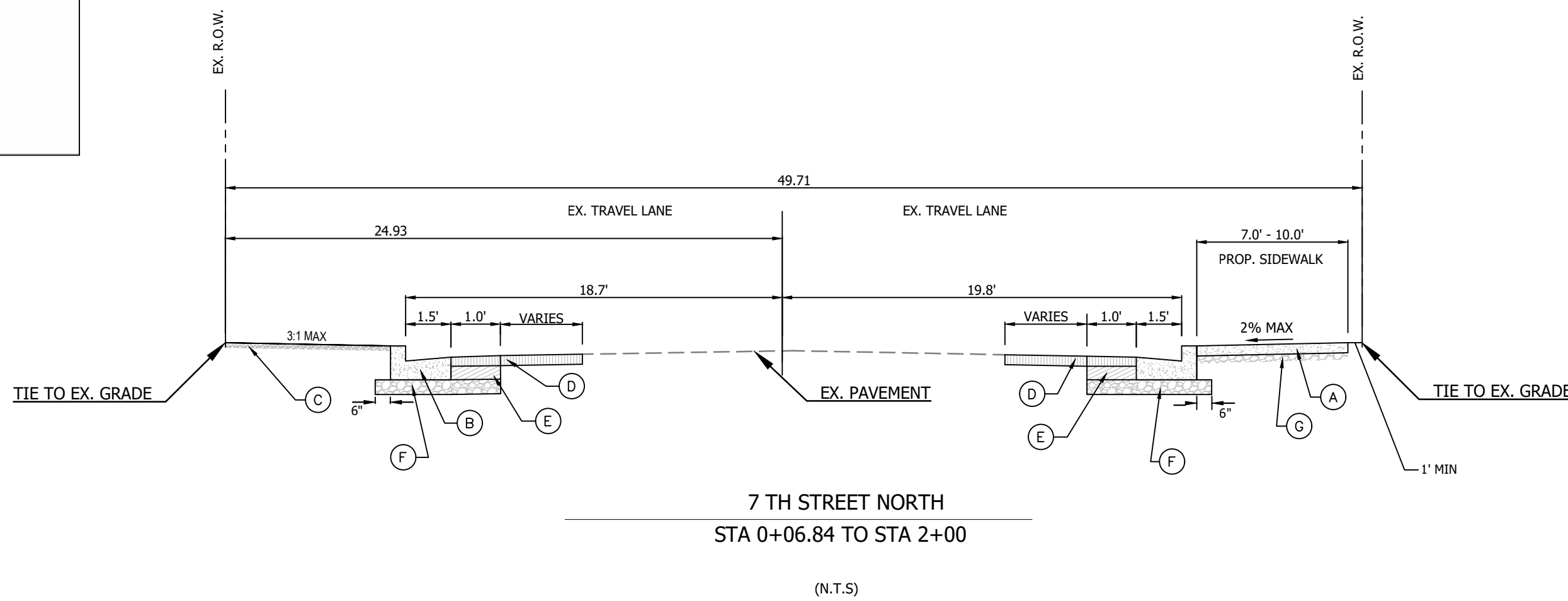
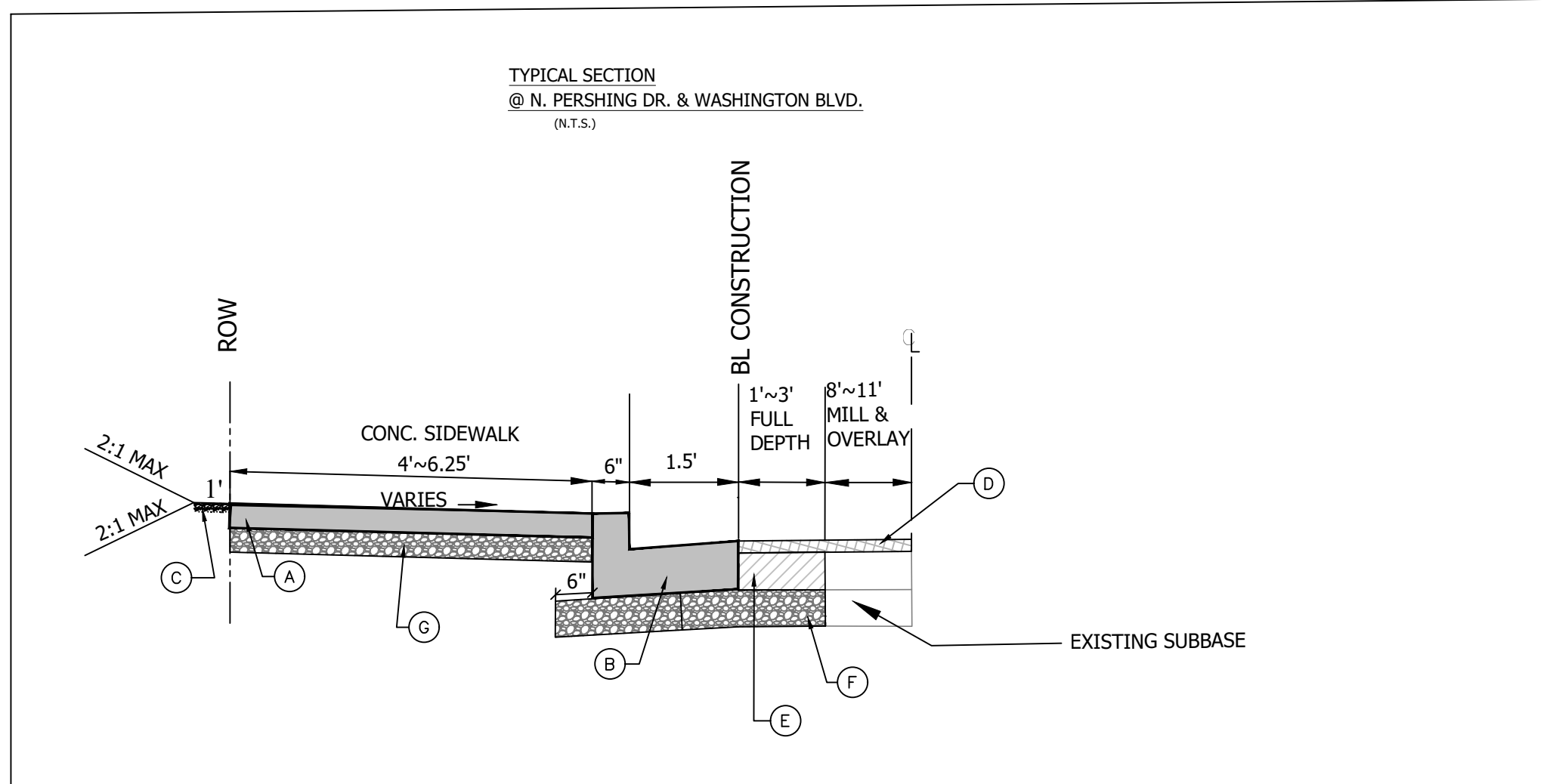
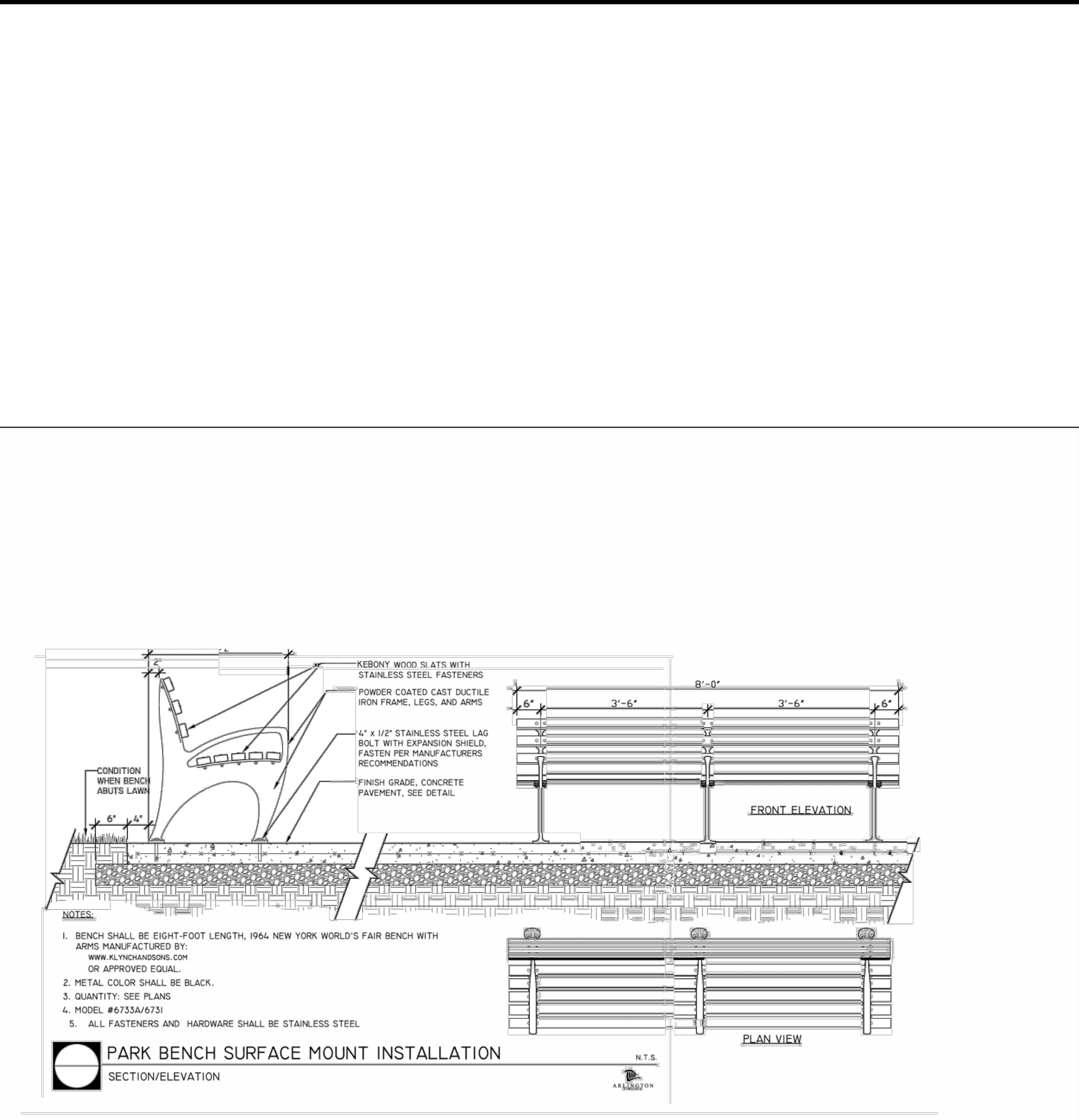
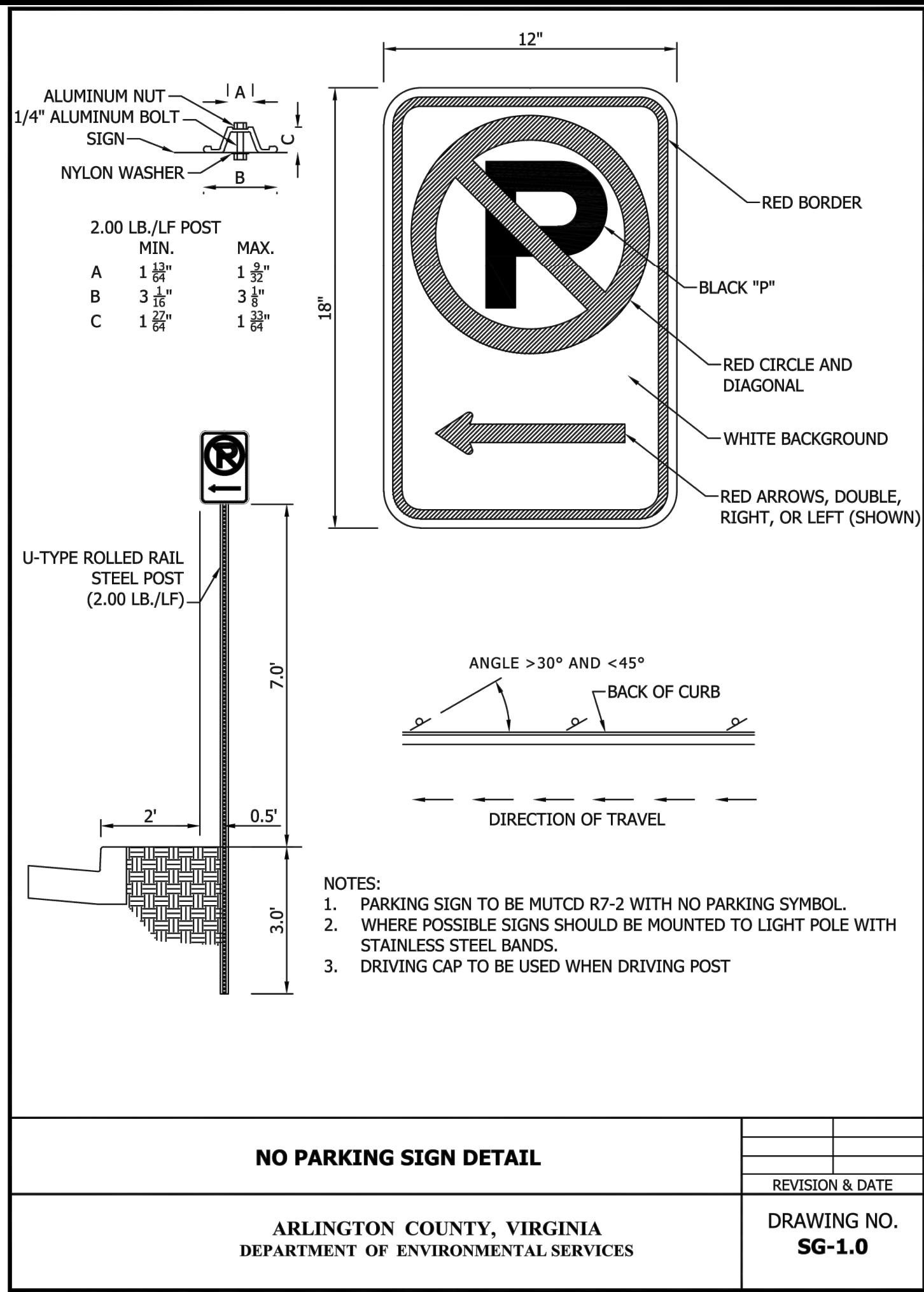
DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

AS SHOWN



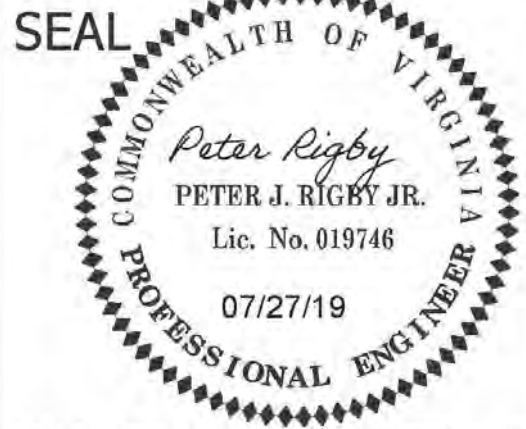
LEGEND

- (A) PROP 4" CONC. SDWK. CLASS A3 PER ARL. CO. STD. R-2.0
(B) PROP CURB AND GUTTER PER ARL. CO. STD. R-2.0 (C-2)
(C) PROP. 4" TOPSOIL AND SOD PER ARL. CO. SPECS 329100 & 329200 AND SELECTED & APPROVED SOIL FOR BACKFILL IF NEEDED
(D) PROP. 2" ASPHALT CONCRETE SURFACE COURSE TYPE SM-9.5D PER VDOT SPEC. 211
(E) PROP. 6" ASPHALT CONCRETE BASE COURSE TYPE BM-25.0A PER VDOT SPEC. 211
(F) PROP. 6" AGGREGATE BASE MATERIAL, MIN. CBR-30, TYPE 1, SIZE 21-A PER ARL. CO. STD. R-1.4
(G) PROP. 3" AGGREGATE BASE MATERIAL, MIN. CBR-30, TYPE 1, SIZE 21-A PER ARL. CO. STD R-2.0
(H) PROP. STD. SOLID CONCRETE RAISED MEDIAN MS-1 W/CUT-THROUGH TYPE M2 PER 2016 VDOT ROAD & BRIDGE STD. DWG. 202.02 & 203.09



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APPROVALS DATE
Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Takab 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
Dennis M. Leach 8/6/20
WATER, SEWER, STREETS BUREAU CHIEF
TRANSPORTATION DIRECTOR
PROJECT MANAGER 8.6.2020

REVISIONS DATE

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

TYPICAL SECTIONS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

AS SHOWN

C004.1

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE		
CONTOURS MAJOR; MINOR		
CRITICAL ROOT ZONE		
EASEMENT		
ELECTRIC (UNDERGROUND)		
FENCE (MATERIAL NOTED)		
FIBER OPTIC		
GAS LINE		
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)		
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE		
LIMITS OF WORK		
OVERHEAD WIRES		
PAVEMENT MINI SKIP LINE		
PAVEMENT SKIP LINE		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
ROOT PRUNING		
SANITARY SEWER		
X" SANITARY SEWER (SIZE INCLUDED IF AVAILABLE)		
SILT FENCE		
STORM (SIZE NOTED)		
STREAM		
STREET LIGHT CONDUIT		
TELEPHONE (UNDERGROUND)		
TREE LINE		
TREE PROTECTION FENCE		
WALL		
WATER		
X" WATER (SIZE INCLUDED IF AVAILABLE)		

SYMBOL LEGEND

EXISTING	PROPOSED
EX CABLE PEDESTAL	PROP CABLE PEDESTAL
EX ELECTRIC BOX	
EX FIRE HYDRANT	PROP FIRE HYDRANT
EX GAS VALVE	PROP GAS VALVE
EX GROUND LIGHT	
EX GUY WIRES	
EX IRON PIPE OR PIN	
EX LIGHT POLE	PROP LIGHT POLE
EX MAILBOX	
EX MONUMENT	
EX PARKING METER	
EX PAY STATION	PROP PAY STATION
EX SANITARY MANHOLE	PROP SANITARY MANHOLE
EX STORM BASIN	PROP STORM CATCH BASIN (TO SCALE)
EX STORM MANHOLE	PROP STORM MANHOLE
EX TELEPHONE PEDESTAL	
EX TRAFFIC CONTROL BOX	
EX TRAFFIC SIGN	PROP TRAFFIC SIGN
EX TRASH CAN	PROP TRASH CAN
EX TRAVERSE	
EX TREES, WOODED AREA	PROPOSED TREE REMOVAL
EX UTILITY MANHOLE TYPE INDICATED ELECTRIC, TELE, ETC	
EX UTILITY POLE	PROP UTILITY POLE
EX WATER MANHOLE	PROP WATER MANHOLE
EX WATER METER	PROP WATER METER
EX WATER VALVE	PROP WATER VALVE
EX YARD INLET	PROP YARD INLET (TO SCALE)
EX BENCHMARK	CONSTRUCTION NOTES (LEADER TO AREA AFFECTED)
SOD	CURVE NUMBER (SEE CURVE TABLE)
SOD UNDERPLANTED WITH BULBS (SEE PLANTING SCHEDULE)	LINE NUMBER (SEE LINE TABLE)
	TEST HOLE
	NORTH ARROW

LABEL LEGEND

EXISTING	PROPOSED
EXISTING SANITARY STRUCTURE NUMBER	PROPOSED SANITARY SEWER STRUCTURE NUMBER
EXISTING STORM SEWER STRUCTURE NUMBER	PROPOSED STORM SEWER STRUCTURE NUMBER

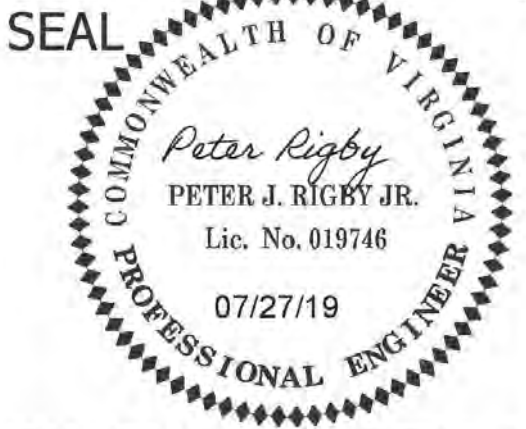
HATCH LEGEND

PROP MILL & OVERLAY	
PROP FULL DEPTH ASPHALT	
PROP CONCRETE	
REPLACE & MATCH EXISTING DRIVEWAY OR LEADWALK. SEE CONSTRUCTION NOTES	
DEMOLITION AREA	



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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Dennis M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	8/6/20
<i>Oliver J. ...</i> TRANSPORTATION DIRECTOR	8.6.2020
<i>...</i> PROJECT MANAGER	

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

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LEGEND

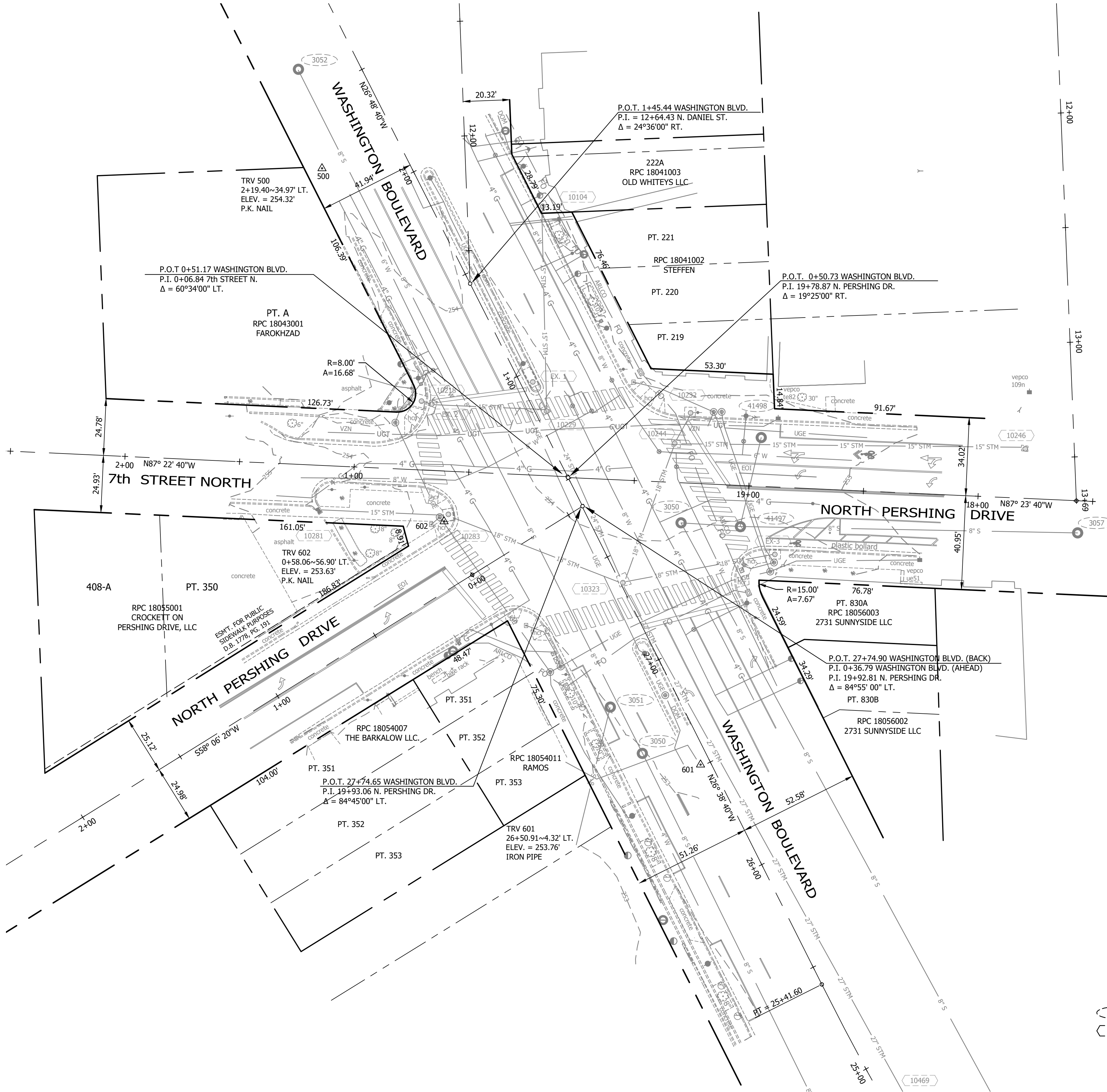
DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

N/A

C006.1



CONTROL DATA:

1. RTK VALUES FOR POINTS 300 THROUGH 305 WERE OBTAINED AUGUST 28, 2018. RTK VALUES FOR POINTS 20 AND 21 WERE OBTAINED MARCH 7, 2018.
2. FIELD TRAVERSE AND LOCATIONS WERE RUN ON SEPTEMBER 17, 2018. TRAVERSE AND LOCATIONS WERE TRANSLATED AND ROTATED TO THE RTK CONTROL BY HOLDING THE MIDPOINT OF THE LINE BETWEEN POINTS 21 AND 301. THE DIRECTION FROM POINT 21 TO 301 WAS HELD TO DETERMINE VIRGINIA STATE GRID NORTH. A SCALE FACTOR OF 1.00002612 WAS APPLIED TO POINTS 21 AND 301 TO ACHIEVE GROUND COORDINATE VALUES.
3. THE ELEVATION OF TRV1010 (253.30') OF THE ORIGINAL DC15 TRAVERSE WAS HELD TO ACHIEVE THE VERTICAL DATUM FOR THIS PROJECT.

State Plane Coordinates (RTK)				
Point #	Northing	Easting	Elevation	Description
20	7006783.2966	11884208.8054	253.54	GPS100-MA11
21	7006438.8808	11884427.7868	246.44	GPS101-MA11
300	7006931.9170	11883835.7705	259.59	OLD-TRV9-N310
301	7007603.7795	11883796.7180	258.52	OLD-TRV11-N310
302	7006890.4358	11884052.7908	254.04	OLD-IPF126-N310
303	7006740.9312	11884230.6765	253.06	IPF
304	7006913.1963	11884406.3182	258.25	TRV1011-DC15
305	7007085.8343	11884360.1401	259.09	FLY1028-DC15

NOTES:

1. UNDERGROUND UTILITIES WERE DESIGNATED BY MID-ATLANTIC UTILITY LOCATING ON 11/10/2018 AND LOCATED BY ARLINGTON COUNTY SURVEYORS ON 11/14/2018.
2. DIAMETER OF WATER LINES & SANITARY SEWERS ARE SHOWN PER ARLINGTON COUNTY RECORDS.

Project Control				
Point #	Northing	Easting	Elevation	Description
500	7007043.2304	11884044.0036	254.32	TRV 500 PKS
501	7007308.9525	11883903.7556	257.35	TRV 501 DHS
502	7007603.8741	11883796.9546	258.76	TRV 502=301 IPF
601	7006783.3708	11884208.9889	253.76	TRV 601=20 IPF
602	7006889.3430	11884097.2017	253.63	TRV 602 PKS
603	7006784.5241	11883931.0349	253.30	TRV 603=1010
611	7006438.9450	11884428.0399	246.67	TRV611=21 IPF

SANITARY SEWER TABULATION

#3049
TOP = 251.87
C/L INV. = 240.81

#3050
TOP = 253.06
C/L INV. = 241.83

#3051
TOP = 253.09
C/L INV. = 247.09
STRUCTURE FULL OF DEBRIS

#3052
TOP = 255.28
C/L INV. = 244.55

#3054
TOP = 250.19
C/L INV. = 240.35

#3055
TOP = 254.16
C/L INV. = NO ACCESS

#3057
TOP = 257.55
C/L INV. = NO ACCESS

#41497
TOP = 253.87
C/L INV. = 243.65

#41498
TOP = 254.44
C/L INV. = 250.09

STORM SEWER TABULATION

#10104
TOP = 254.78
15" RCP INV. OUT = 246.88 (10229)

#10218
TOP = 253.54
15" CMP INV. OUT = 249.19 (EX. 2)

#10229
TOP = 254.13
15" RCP INV. IN = 245.59 (EX. 1)
15" RCP INV. IN = 245.29 (EX. 2)
15" RCP INV. IN = 245.29 (10104)
24" RCP INV. OUT = 245.26 (10323)

#10232
TOP = 254.66
18" RCP INV. OUT = 247.47 (10244)

#10244
TOP = 254.49
C/L INV. = 247.06
15" RCP INV. IN = N/A (10246)
18" RCP INV. IN = N/A (10232)
18" RCP INV. OUT = N/A (10323)

#10246
TOP = 256.45
15" RCP INV. OUT = 253.53 (10244)

#10281
TOP = 254.22
15" RCP INV. OUT = 250.83 (10283)

#10283
TOP = 253.65
15" RCP INV. IN = 246.05 (10281)
18" RCP INV. OUT = 245.60 (10323)

#10323
TOP = 253.75
C/L INV. = 244.25
18" RCP INV. IN = N/A (10244)
18" RCP INV. IN = N/A (10283)
24" RCP INV. IN = N/A (10229)
18" RCP INV. IN = N/A (EX. 3)
27" RCP INV. OUT = N/A (10469)

#10469
TOP = 251.69
27" RCP INV. IN = 241.69 (10323)

#EX. 1
TOP = 254.14
15" RCP INV. OUT = 246.84 (10229)

#EX. 2
TOP = 253.02
15" CMP INV. IN = 249.09 (10218)
15" RCP INV. OUT = 247.04 (10229)

#EX. 3
TOP = 253.86
18" RCP INV. OUT = 247.21 (10323)

LEGEND

- Isa LANDSCAPE AREA
- BUSH/HEDGE/SHRUB
- DECIDUOUS TREE
- CONIFEROUS TREE
- TRAFFIC SIGN
- GUY WIRES
- EX. GAS VALVE
- EX. LIGHT POLE
- EX. WATER METER
- EX. TRAFFIC JUNCTION BOX
- EX. TRAFFIC CABINET
- EX. PARKING METER
- EX. STORM MANHOLE
- EX. SANITARY MANHOLE
- EX. SANITARY SEWER STRUCTURE NUMBER
- EX. STORM SEWER STRUCTURE NUMBER

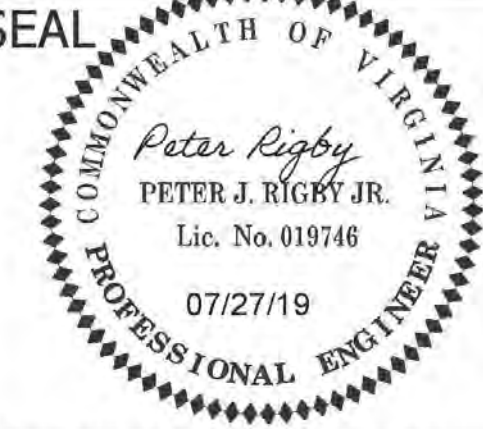
GENERAL SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF THE COUNTY SURVEY SECTION FROM AN ACTUAL GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 08/2018 TO 12/2018; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983.
3. VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
4. CONTOUR INTERVAL: 1'
5. BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.



DEPARTMENT OF ENVIRONMENTAL SERVICES
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APPROVALS DATE

Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER

Kamal Takab 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR

Donna M. Leach 8/6/20
TRANSPORTATION DIRECTOR

Oliver J. Jorgensen 8.6.2020
PROJECT MANAGER

REVISIONS DATE

NO.	DESCRIPTION	DATE

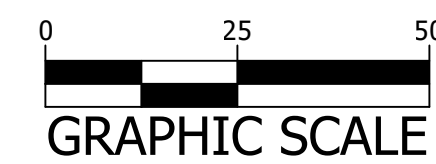
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EXISTING CONDITIONS PLAN

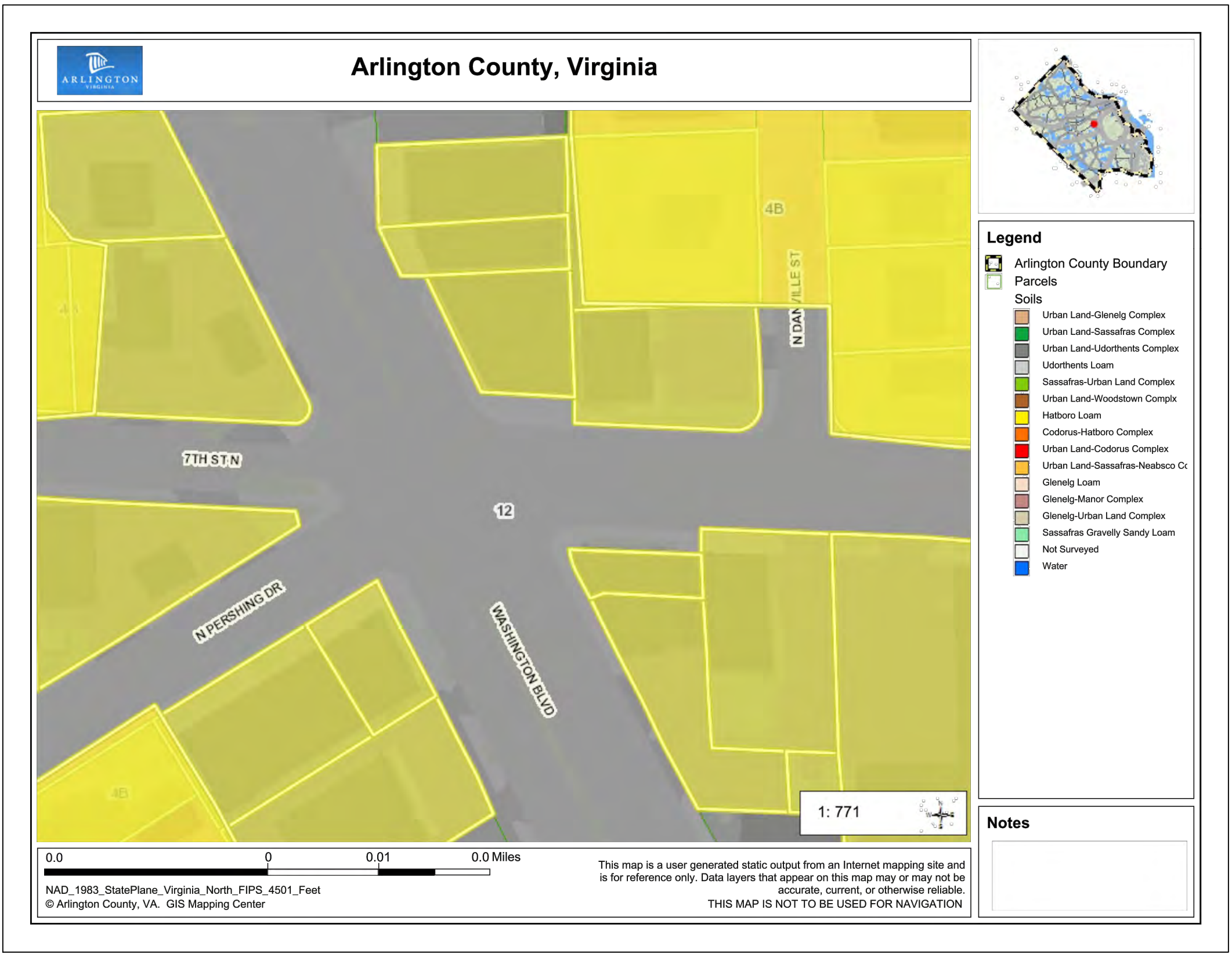
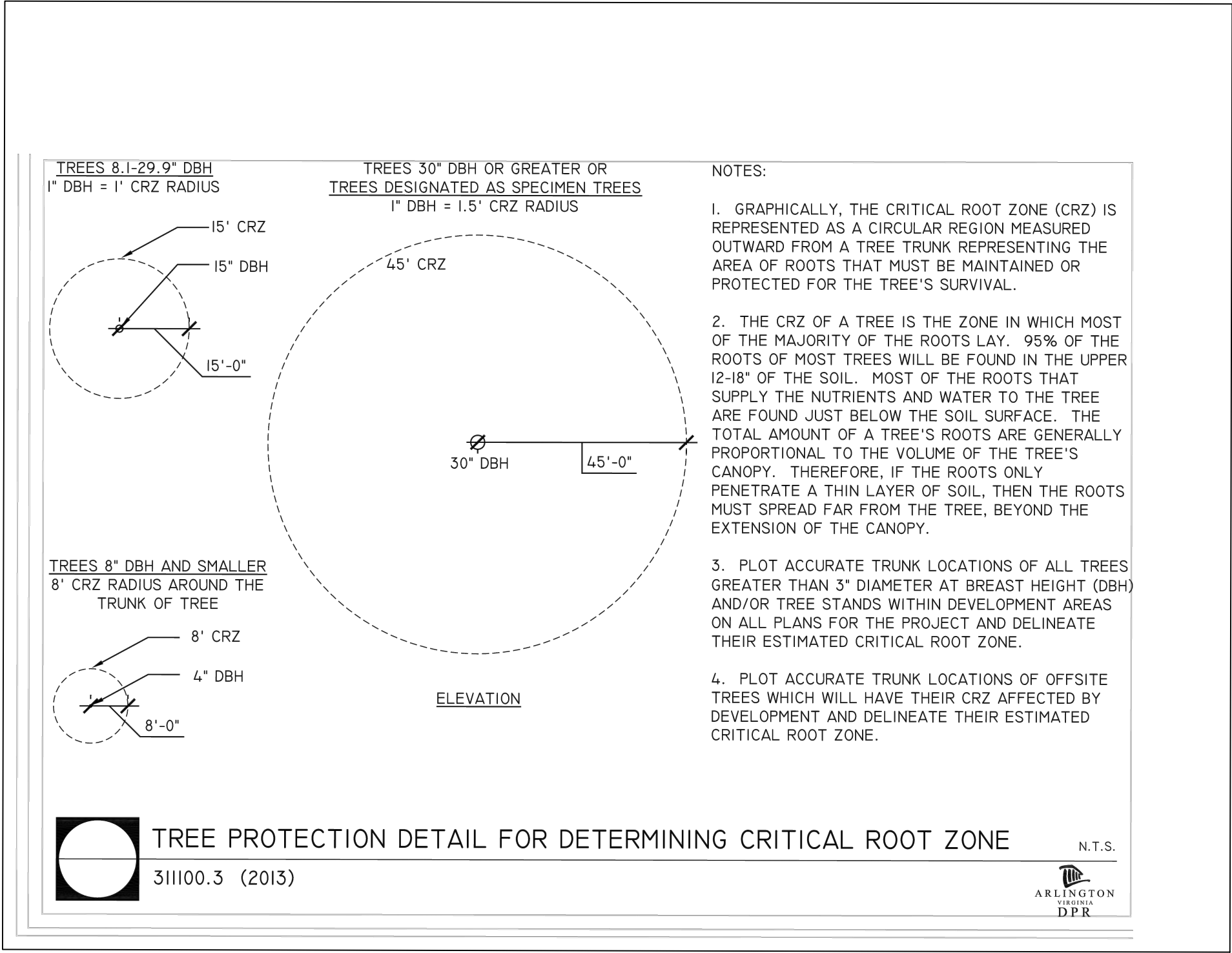
DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:



C011.1



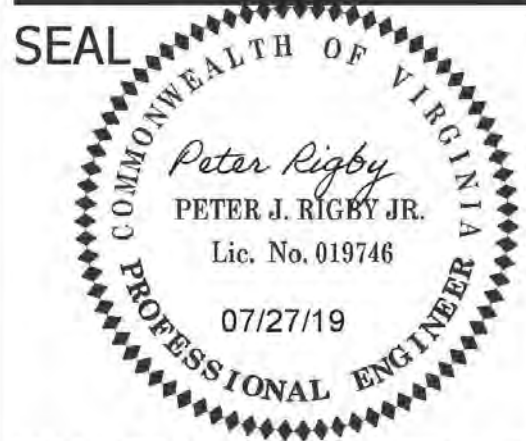
THIS SHEET IS FOR EROSION AND SEDIMENTATION CONTROL USE ONLY

EROSION & SEDIMENTATION CONTROL NOTES

- Contractor to contact the Arlington Forester to schedule a pre-construction inspection of tree protection measures before any work near the critical root zones of trees. To schedule the pre-construction meeting call 703-228-1863.
- Contractor to protect trees per the plan according to the Arlington County DPR Design Standard Detail 02231.1
- Contractor to root prune trees per the plan according to the Arlington County DPR Design Standard Detail 02231.5, where called out on the plan.
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- Contractor to plant the trees according to Arlington County DPR Design Standard Detail 02930.1 (on flat land) or 02930.2 (on slopes)

EROSION AND SEDIMENT CONTROL LEGEND

3.05	TEMPORARY SILT FENCE	SF	— x — x —
3.07	STORM DRAIN INLET PROTECTION	IP	⚡
3.38	TREE PROTECTION	TP	— TP —
3.33	SODDING	SO	
	ROOT PRUNING	RP	— RP —
	CRITICAL ROOT ZONE	CRZ	— CRZ —



APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	8/5/2020
Kamal Takab CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
Dennis M. Leach WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	8/6/20
Oliver Dzungchi PROJECT MANAGER	8.6.2020

REVISIONS	DATE

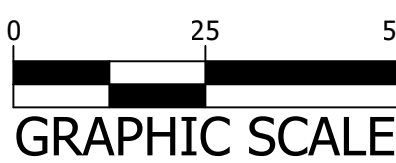
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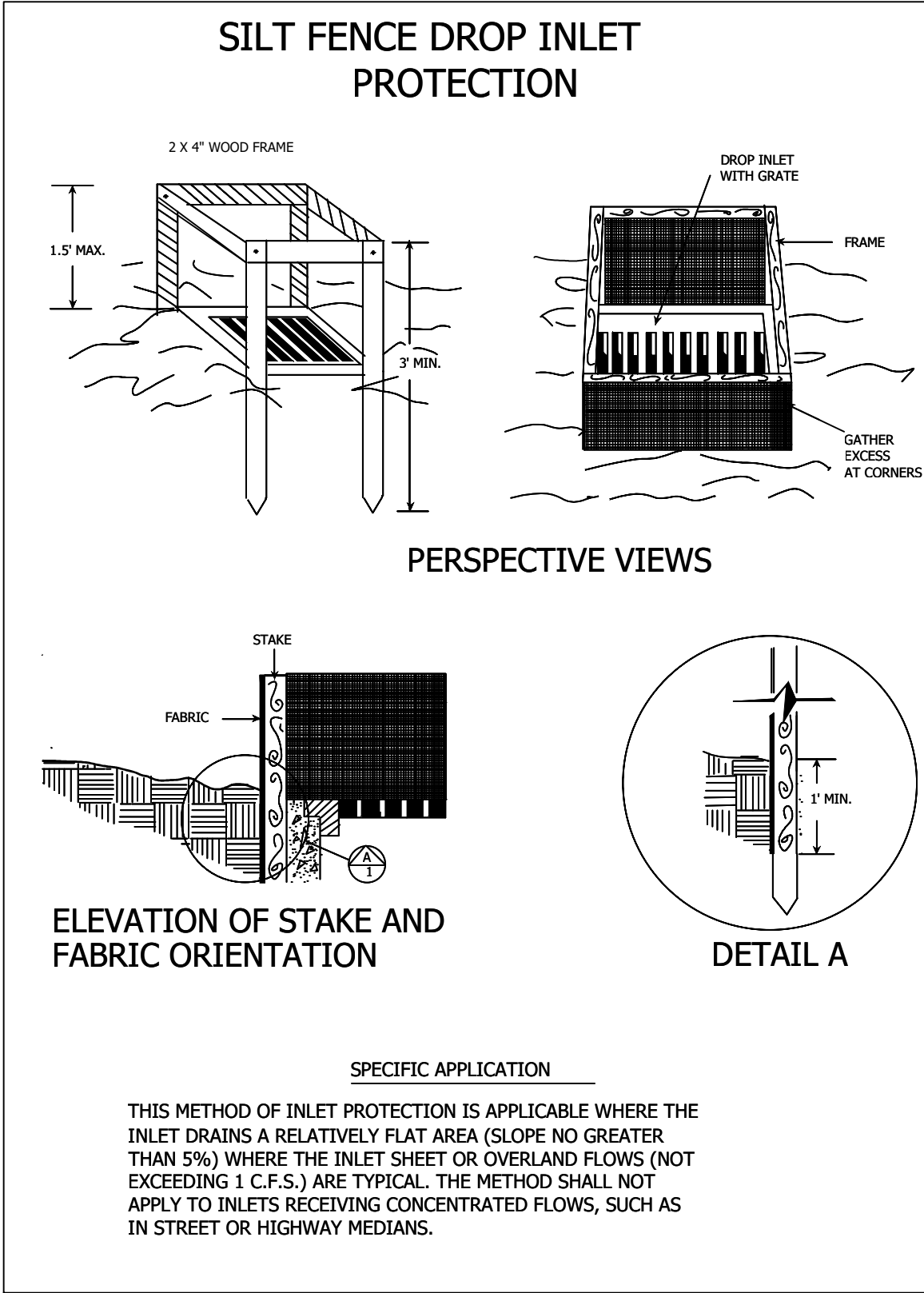
N. PERSHING DR. @ WASHINGTON BLVD.

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY
PLOTTED: AUGUST 18 2020

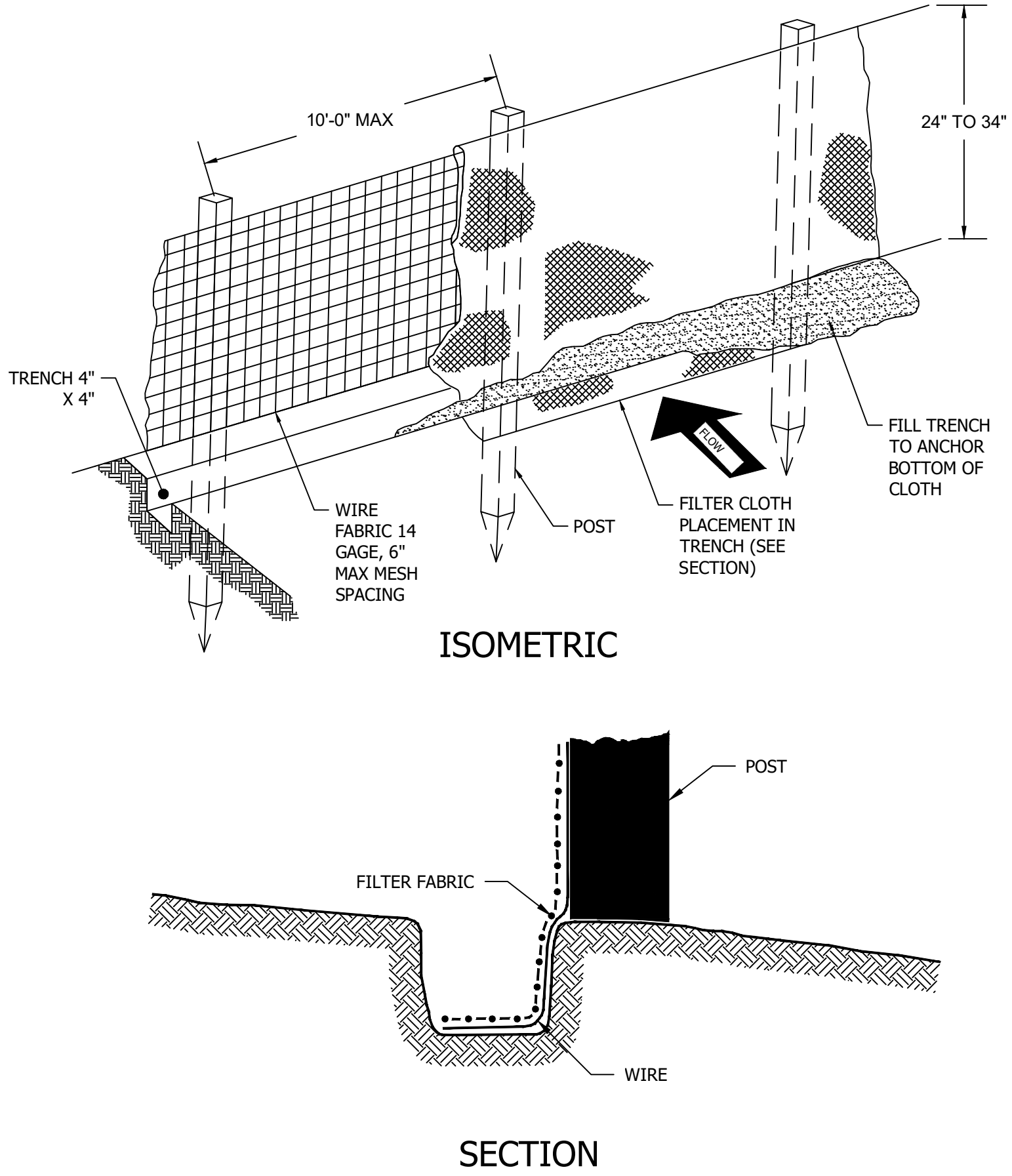
SCALE:





SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988

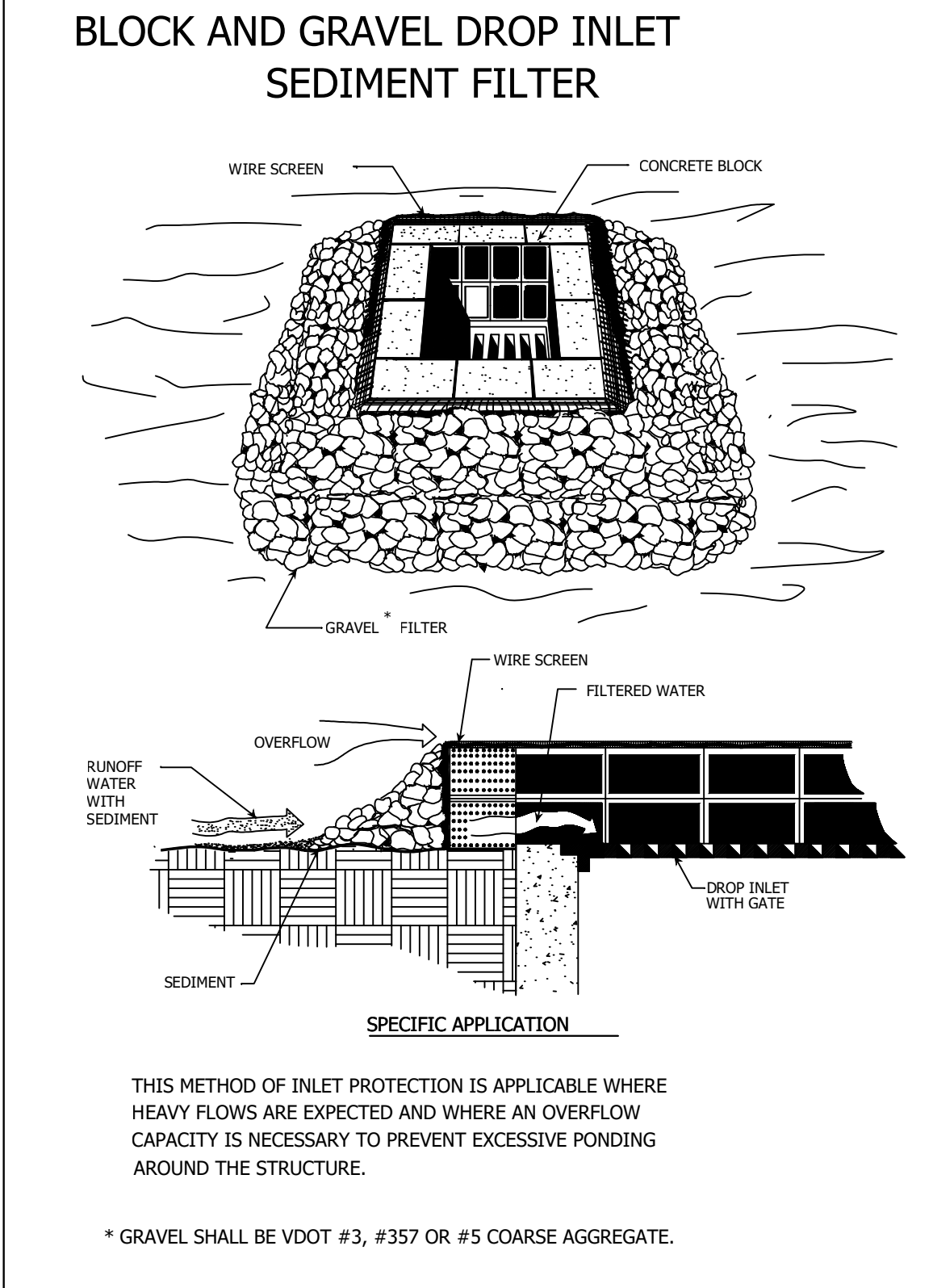
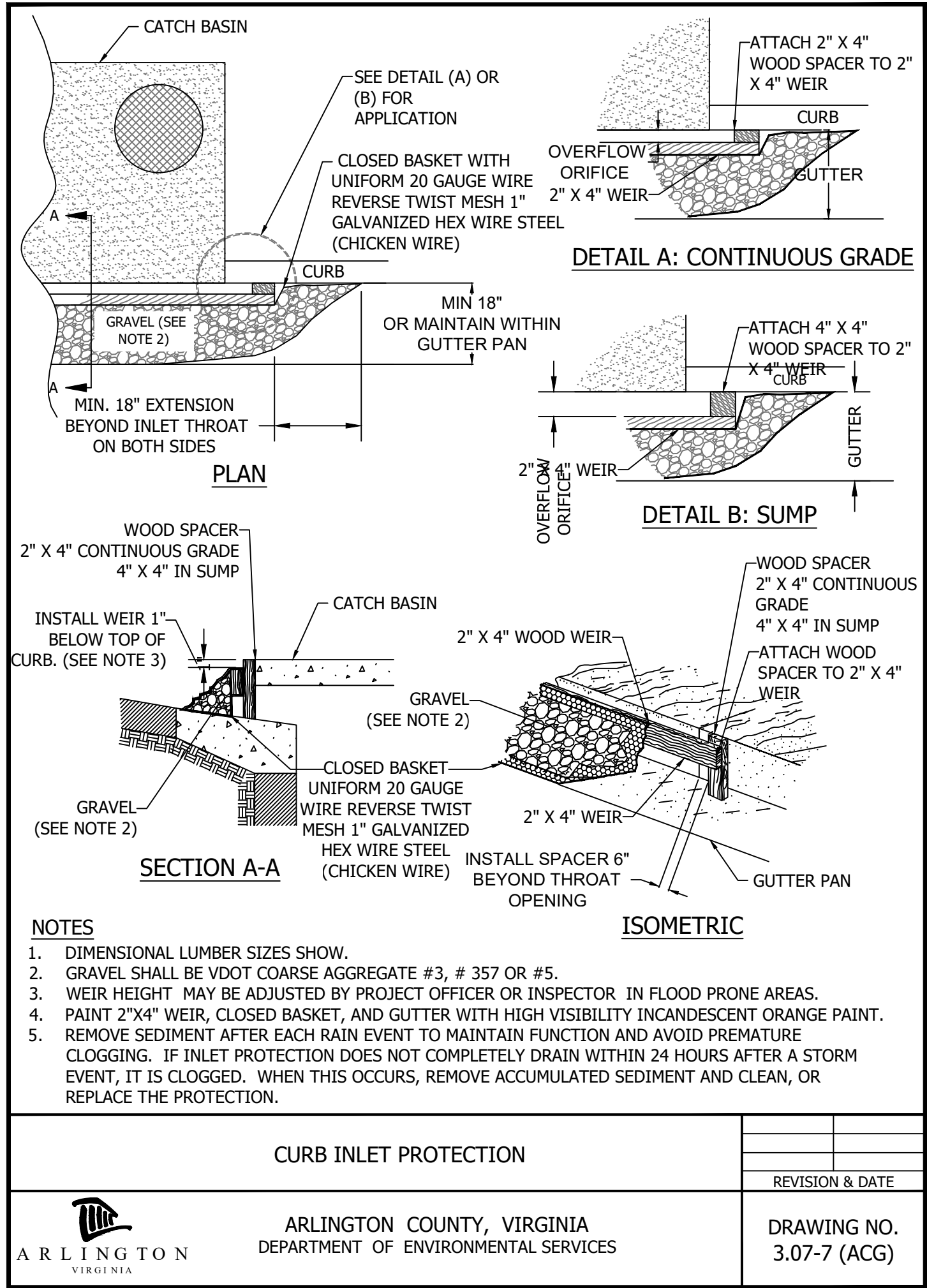
PLATE 3.07-1



MODIFIED-VESCH 3.05

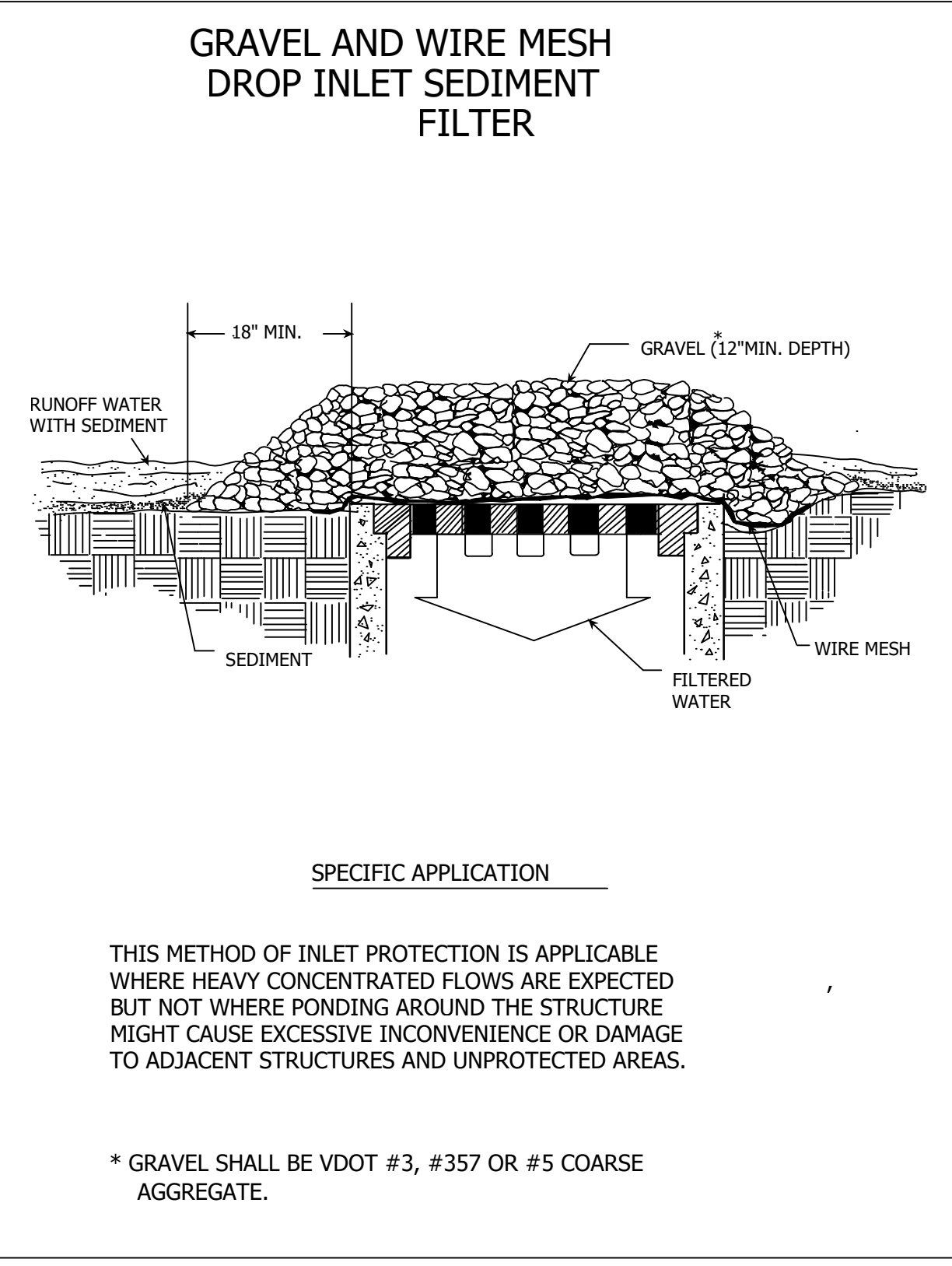
SILT FENCE

NOT TO SCALE



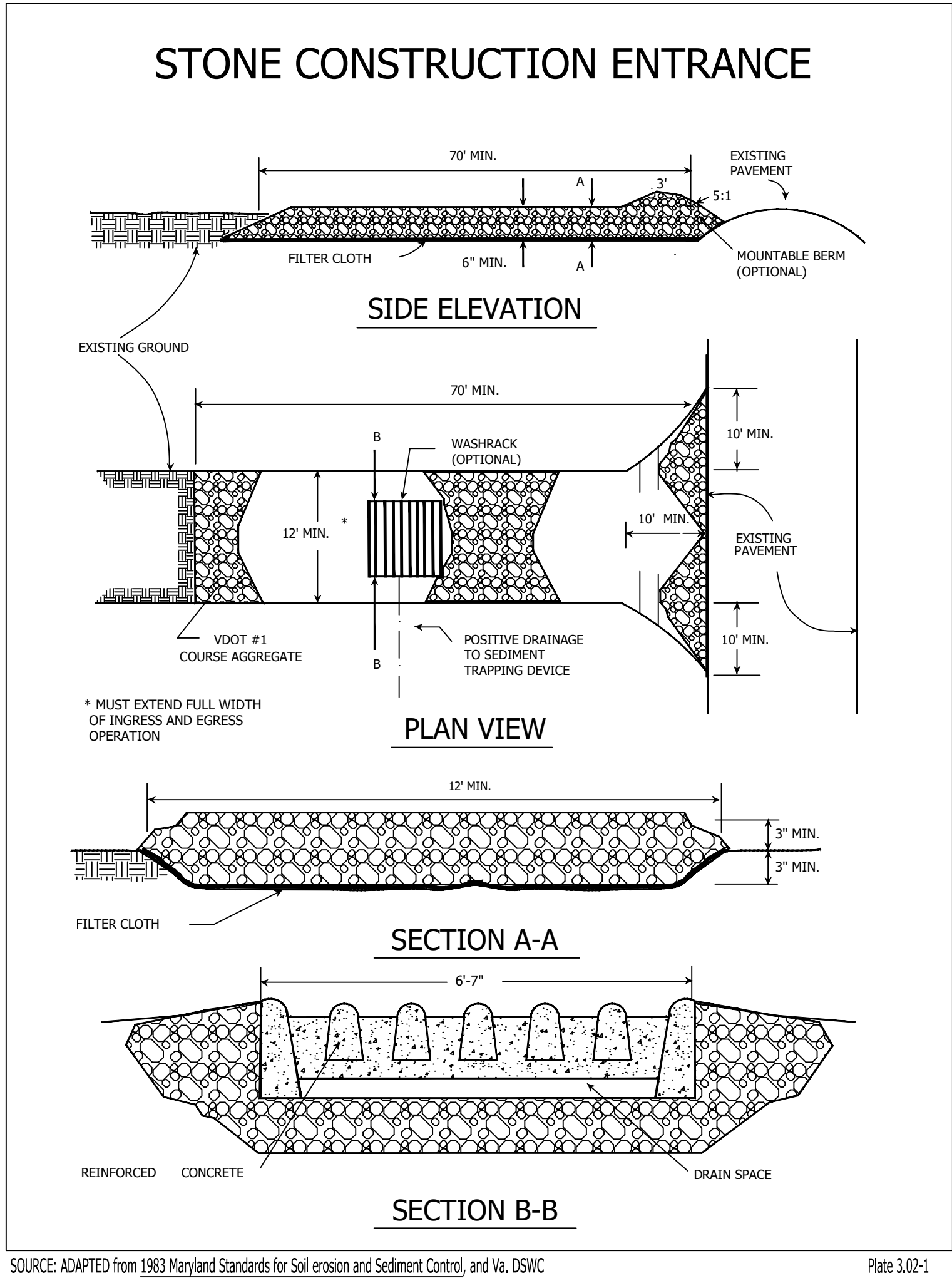
SOURCE: VA. DSWC

PLATE 3.07-3



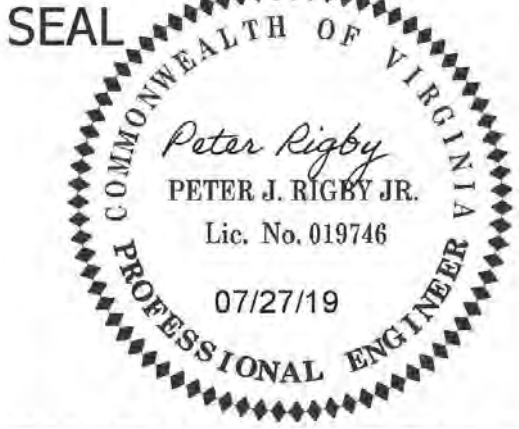
SOURCE: VA. DSWC

PLATE 3.07-2



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APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	8/5/2020
Kamal Takab CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
Oliver J. ... TRANSPORTATION DIRECTOR	08.05.2020
Dennis M. Leach PROJECT MANAGER	8/6/20

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

N. PERSHING DR. @ WASHINGTON BLVD.

EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

AS SHOWN

C032.2

TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)
FERTILIZER & LIME		
<ul style="list-style-type: none">• Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)• Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) NOTE: 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means. 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs		

TABLE 3.32-D (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA		
SEED ¹		
LAND USE	SPECIES	APPLICATION PER ACRE
<u>Minimum Care Lawn</u> (Commercial or Residential)	Tall Fescue ¹	95-100%
	Perennial Ryegrass	0-5%
	Kentucky Bluegrass ¹	0-5%
		TOTAL: 175-200 lbs.
<u>High-Maintenance Lawn</u>	Tall Fescue ¹	TOTAL: 200-250 lbs.
<u>General Slope (3:1 or less)</u>	Tall Fescue ¹	128 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
		TOTAL: 150 lbs.
<u>Low-Maintenance Slope</u> (Steeper than 3:1)	Tall Fescue ¹	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
		20 lbs.
		TOTAL: 150 lbs.
1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.htm		
2 - Use seasonal nurse crop in accordance with seeding dates as stated below:		
February 16 th - April		Annual Rye
May 1 st - August 15 th		Foxtail Millet
August 16 th - October		Annual Rye
November - February 15 th		Winter Rye
3 - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea), if Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40		
FERTILIZER & LIME		
<ul style="list-style-type: none">• Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)• Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) NOTE: - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means. - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs		

SODDING

APPEARANCE OF GOOD SOD

SHOOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK.

ROOT ZONE - SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

SOURCE: VA. DSWC

PLATE: 3.33-1

GENERAL NOTES :

- i. Contractor to contact the Arlington Forester to schedule a pre-construction inspection of tree protection measures before any work near the critical root zones of trees. To schedule the pre-construction meeting call 703-228-1863.
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ARLINGTON VIRGINIA

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SEAL
COMMONWEALTH OF VIRGINIA
Peter Rigby, Jr.
PETER J. RIGBY JR.
Lic. No. 019746
07/27/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

N. PERSHING DR. @ WASHINGTON BLVD.

EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY
PLOTTED: AUGUST 18 2020

SCALE:

AS SHOWN

C032.3

N. PERSHING DR. & WASHINGTON BLVD. DC19

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

© 2011 BMP Standards and Specifications

© 2013 Draft BMP Standards and Specifications

Project Name: DC19 N PERSHING DRIVE

Date: 03-Mar-20

CLEAR ALL

data input cells

constant values

calculation cells

final results

Site Information

Linear Development Project? Yes

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) → 0.1648

Check: BMP Design Specifications List: 2013 Draft Stds & Specs

Linear project? Yes

Land cover areas entered correctly? ✓

Total disturbed area entered? ✓

Maximum reduction required: 20%

The site's net increase in impervious cover (acres) is: 0.0000

Post-Development TP Load Reduction for Site (lb/yr): 0.0681

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed forest/open space					0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed		0.0022			0.0022
Impervious Cover (acres)		0.1626			0.1626
					0.1648

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested land					0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed		0.0037			0.0037
Impervious Cover (acres)					0.1611
					0.1648

Area Check:

OK.

OK.

OK.

OK.

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
P (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

LAND COVER SUMMARY -- PRE-REDEVELOPMENT

Land Cover Summary-Pre		
Pre-ReDevelopment	Listed	Adjusted ¹
Forest/Open Space Cover (acres)	0.0000	0.0000
Weighted Rv(forest)	0.0000	0.0000
% Forest	0%	0%
Managed Turf Cover (acres)	0.0022	0.0022
Weighted Rv(turf)	0.2000	0.2000
% Managed Turf	1%	1%
Impervious Cover (acres)	0.1626	0.1626
Rv(impervious)	0.9500	0.9500
% Impervious	99%	99%
Total Site Area (acres)	0.1648	0.1648
Site Rv	0.9400	0.9400

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)		
Pre-ReDevelopment Treatment Volume (cubic feet)	562.3233	562.3233
Pre-ReDevelopment TP Load (lb/yr)	0.3533	0.3533
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	2.1400	2.1400
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		0.0676

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary-Past (Final)			Land Cover Summary-Post			Land Cover Summary-Post		
Post-ReDevelopment & New Impervious			Post-ReDevelopment			Post-Development New Impervious		
Final Post-Development			Post-ReDevelopment			Post-Development New Impervious		
Forest/Open Space Cover (acres)	0.0000		Forest/Open Space Cover (acres)	0.0000				
Weighted Rv(forest)	0.0000		Weighted Rv(forest)	0.0000				
% Forest	0%		% Forest	0%				
Managed Turf Cover (acres)	0.0037		Managed Turf Cover (acres)	0.0037				
Weighted Rv(turf)	0.2000		Weighted Rv(turf)	0.2000				
% Managed Turf	2%		% Managed Turf	2%				
Impervious Cover (acres)	0.1611		ReDev. Impervious Cover (acres)	0.1611		New Impervious Cover (acres)	0.0000	
Rv(impervious)	0.9500		Rv(impervious)	0.9500		Rv(impervious)	---	
% Impervious	98%		% Impervious	98%				
Final Site Area (acres)	0.1648		Total ReDev. Site Area (acres)	0.1648				
Final Post Dev Site Rv	0.9332		ReDev Site Rv	0.9332				

Treatment Volume and Nutrient Load

Final Post-Development Treatment Volume (acre-ft)			Post-ReDevelopment Treatment Volume (acre-ft)			Post-Development Treatment Volume (acre-ft)		
Final Post-Development Treatment Volume (cubic feet)	558.2396		Post-ReDevelopment Treatment Volume (cubic feet)	558.2396		Post-Development Treatment Volume (cubic feet)	---	
Final Post-Development TP Load (lb/yr)	0.3507		Post-ReDevelopment TP Load (lb/yr) ²	0.3507		Post-Development TP Load (lb/yr)	---	
Final Post-Development TP Load per acre (lb/acre/yr)	2.1300		Post-ReDevelopment TP Load per acre (lb/acre/yr)	2.1300				
			Max. Reduction Required (Below Pre-Development Load)	20%				
			TP Load Reduction Required for Redeveloped Area (lb/yr)	0.0681		TP Load Reduction Required for New Impervious Area (lb/yr)	0	

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	0.0681
Linear Project TP Load Reduction Required (lb/yr):	0.0681

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr)	2,5275	Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	2,5091

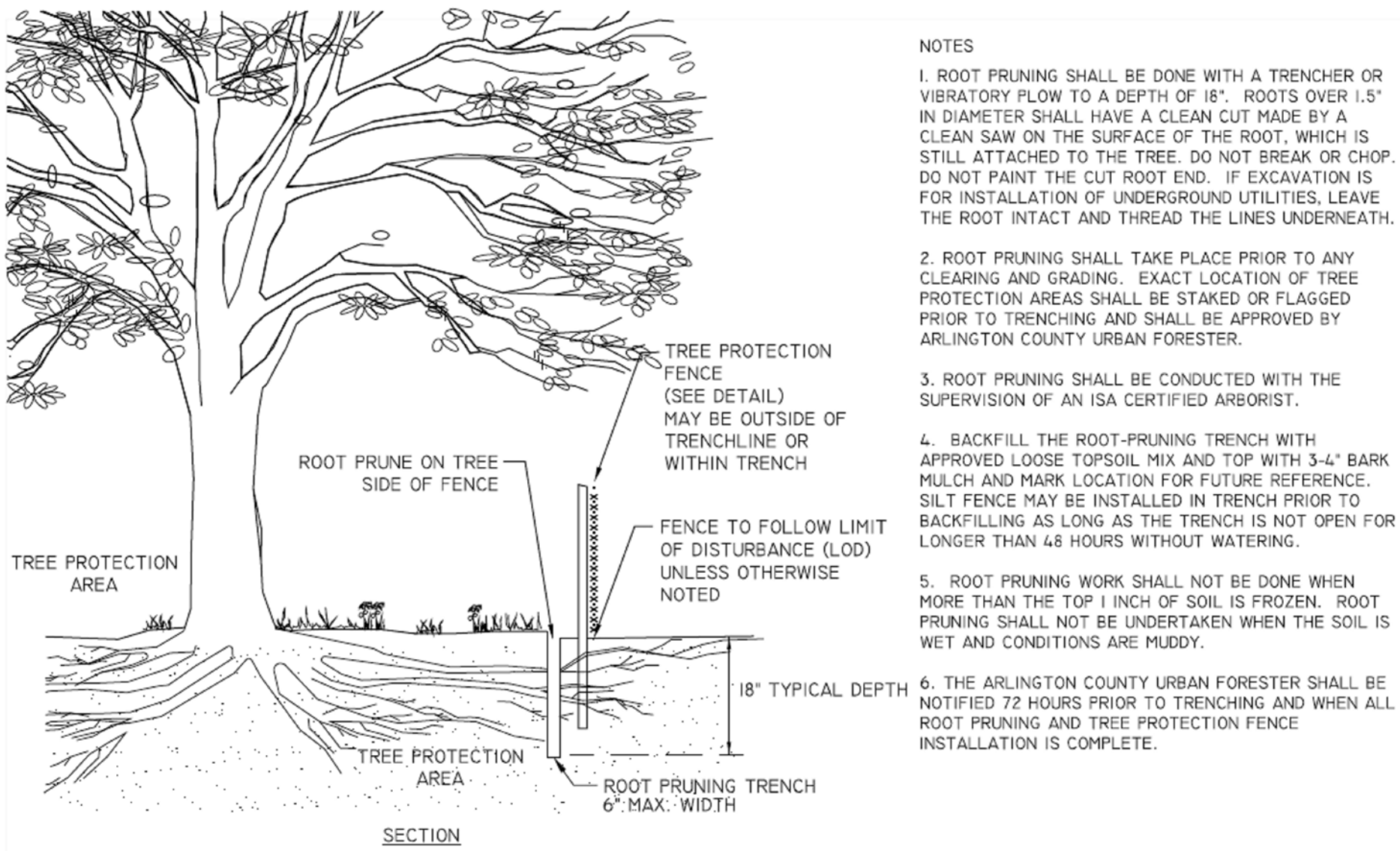
RUNOFF REDUCTION NOTES:

THE RUNOFF REDUCTION SPREADSHEET INFORMATION ON THIS PLAN IS FOR DATA TRACKING PURPOSES TO DOCUMENT THE AREA OF LAND DISTURBANCE AND TO CHARACTERIZE PRE- AND POST-DEVELOPMENT LAND USE CONDITIONS.

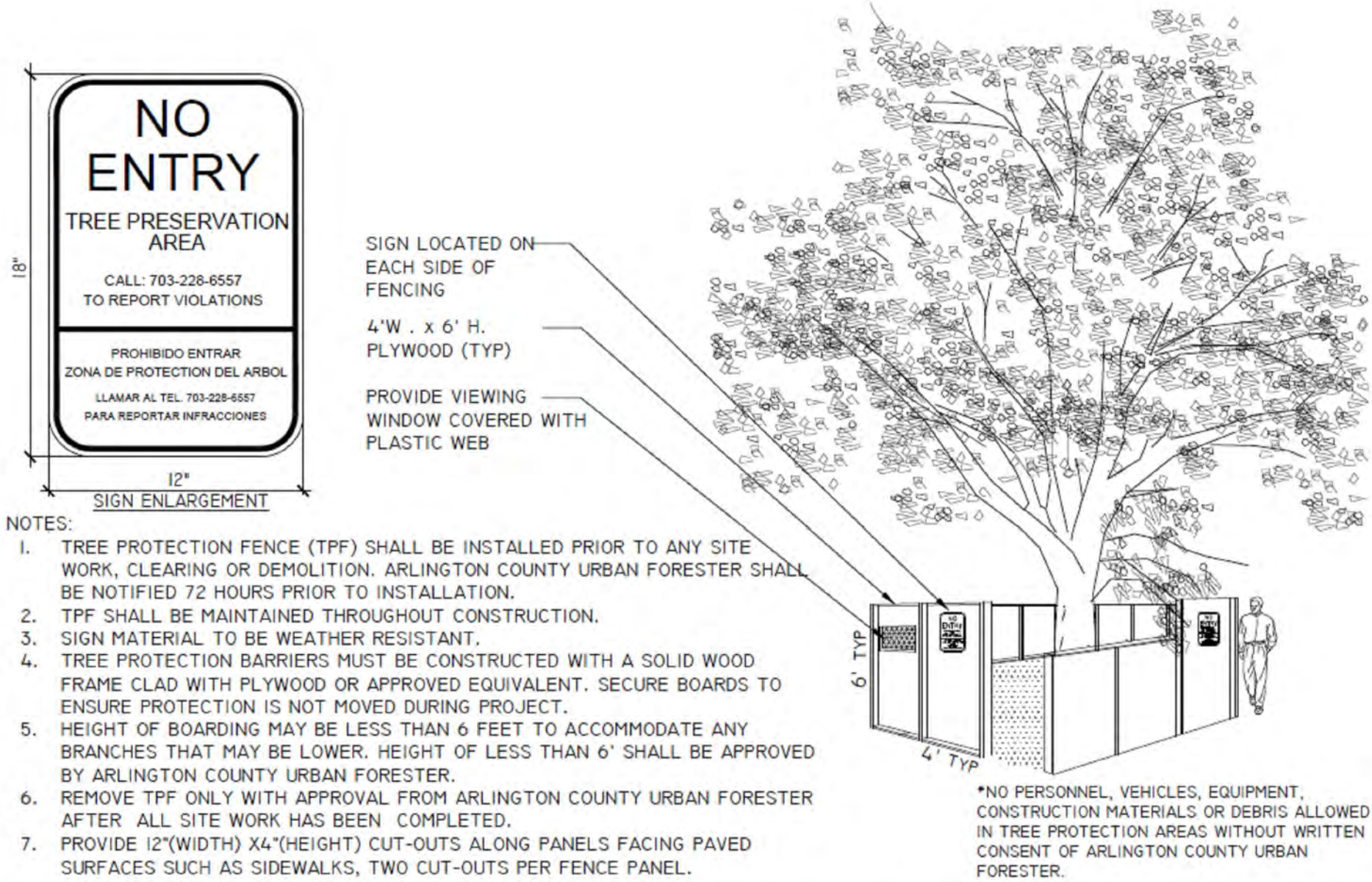
IN ACCORDANCE WITH ARLINGTON COUNTY'S CHESAPEAKE BAY TOTAL MAXIMUM DAILY LOAD (TMDL) ACTION PLAN, APPROVED BY THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) ON SEPTEMBER 1, 2015, LINEAR DEVELOPMENT PROJECTS CONDUCTED BY THE COUNTY ARE ADMINISTERED AND TRACKED AS FOLLOWS CONSISTENT WITH 9VAC25-870-69.A.4, 9VAC25-870-76, AND 9VAC25-870-92:

- POLLUTANT LOAD CHANGES WILL BE COMPUTED AS DESCRIBED IN SECTION 3.A OF THE ACTION PLAN.
- RETROFIT OPPORTUNITIES WILL BE EVALUATED FOR EACH PROJECT, USING THE SCREENING AND SELECTION CRITERIA APPLIED AND DESCRIBED IN THE ADOPTED STORMWATER MASTER PLAN.
- RETROFIT PROJECTS THAT MEET THE SCREENING CRITERIA AND ARE DETERMINED BY ARLINGTON TO BE FEASIBLE AND COST-EFFECTIVE WILL BE IMPLEMENTED WITH SPECIFIC LINEAR DEVELOPMENT PROJECTS. POLLUTANT LOAD REDUCTIONS FROM RETROFIT PROJECTS WILL BE COMPUTED AS DESCRIBED IN SECTION 5 OF THE ACTION PLAN.
- IN CASES WHERE RETROFIT PROJECTS ARE NOT FEASIBLE AND COST-EFFECTIVE FOR A PARTICULAR LINEAR PROJECT, ANY POLLUTANT OF CONCERN (POC) LOAD INCREASES THAT MIGHT OCCUR FOR THAT PROJECT WILL BE ADDRESSED BY LARGER OVERALL POC LOAD REDUCTIONS IN PLACE OR ADDED THROUGH TMDL ACTION PLAN IMPLEMENTATION.

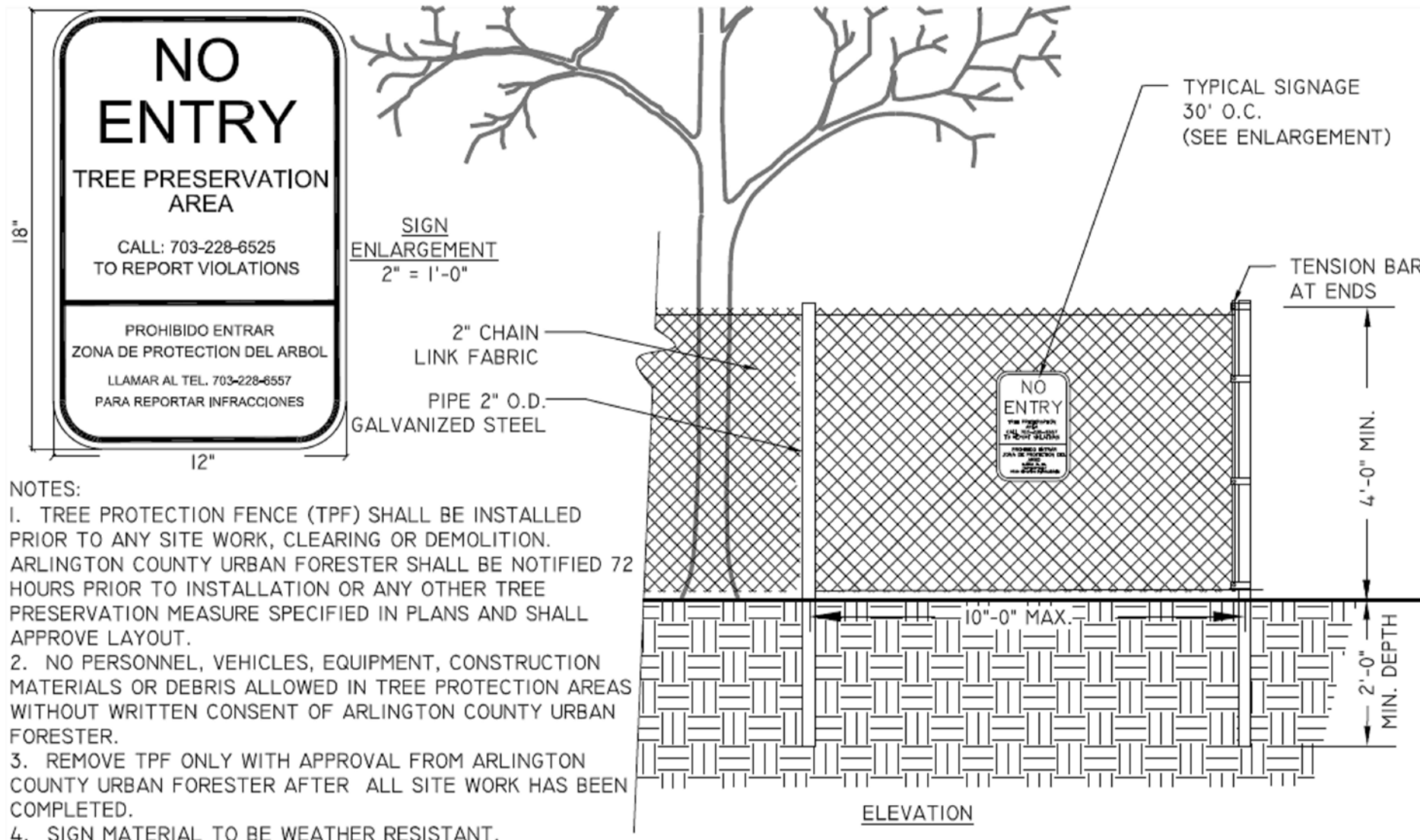
IN THE ABOVE MANNER ARLINGTON, AS THE MS4 OPERATOR AND THE CONSTRUCTION SITE OPERATOR FOR ITS LINEAR DEVELOPMENT PROJECTS, IMPLEMENTS LINEAR PROJECTS AND RETROFIT PROJECTS IN A MANNER THAT ACHIEVES THE MOST TMDL POC REDUCTION FOR THE LEAST COST, WHILE FULLY ACCOUNTING FOR LOAD CHANGES THAT OCCUR WITH LINEAR DEVELOPMENT PROJECT ACTIVITY CONSISTENT WITH THE DEQ CHESAPEAKE BAY TMDL SPECIAL CONDITION GUIDANCE.



ROOT PRUNING
311300.5 (2016) (02231.5)



TREE PROTECTION BARRIERS FOR RESTRICTED SPACE AND TREE PITS
311300.14NS (2019)

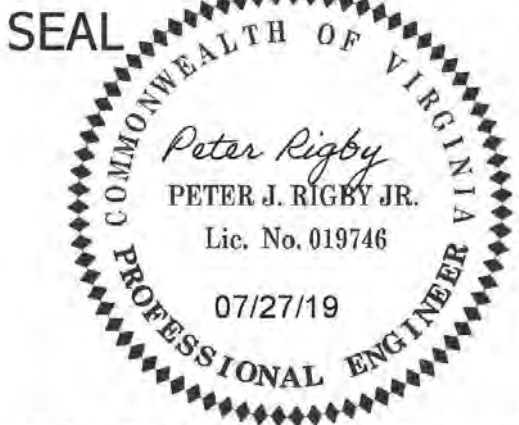


4' CHAIN LINK TREE PROTECTION FENCE (RESIDENTIAL)
311300.2 (2016) (02231.2)



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

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APPROVALS DATE
Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Takab 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 8/6/20
TRANSPORTATION DIRECTOR
Oliver J. Sanchez 8.6.2020
PROJECT MANAGER

REVISIONS DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.
EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY
PLOTTED: AUGUST 18 2020

SCALE:

AS SHOWN

C032.4

STORMWATER POLLUTION PREVENTION PLAN

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Arlington County Projects

(Linear Development / Stormwater Retrofit)

For Construction Activities At:

DC19

N. Pershing Dr. & Washington Blvd.

Arlington, VA 22205

Latitude: 38.880630 N (decimal degrees)

Longitude: -77.090533 W (decimal degrees)

Construction Activity Operator:

Department of Environmental Services- Arlington County

2100 Clarendon Blvd Suite 813

Arlington, Virginia, 22201

703-228-7537

ktaktak@arlingtonva.us

Kamal Taktak

703-228-7527

SWPPP Preparation Date:

03/03/2020

CERTIFICATION

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

Operator Name: Peter Rigby

Title: Design Team Supervisor, Department of Environmental Service

Signature:

Date: 03/03/2020

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type

Located Onsite & Available for Review?

Registration Statement

Notice of Coverage Letter

Construction General Permit

Pollution Prevention Plan

Erosion & Sediment Control Plan

Stormwater Management Plan

LDA Permit

Required documents must be kept at a centralized location on the project site (i.e. in a mail box or other container)

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharges

Likely Present at Your Project Site?

Uncontaminated excavation dewatering

Landscape irrigation

Others [describe]

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
<input type="checkbox"/>	Construction Entrance (Std. & Spec. 3.02)			Construction Activity Operator (See Cover Page)
<input checked="" type="checkbox"/>	Silt Fence (Std. & Spec. 3.05)			
<input type="checkbox"/>	Culvert Inlet Protection (Std. & Spec. 3.08)			
<input type="checkbox"/>	Outlet Protection (Std. & Spec. 3.18)		NA	
<input type="checkbox"/>	Temporary Seeding (Std. & Spec. 3.31)	As required	NA	
<input type="checkbox"/>	Permanent Seeding (Std. & Spec. 3.32)		NA	
<input checked="" type="checkbox"/>	Sodding (Std. & Spec. 3.33)		NA	
<input type="checkbox"/>	Mulching (Std. & Spec. 3.35)		NA	
<input checked="" type="checkbox"/>	Safety Fence (Std. & Spec. 3.01)			
<input checked="" type="checkbox"/>	Storm Drain Inlet Protection			

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN

<input type="checkbox"/>	(Std. & Spec 3.08 and/or Arlington County Std. & Spec from approved ESC plan)			
<input type="checkbox"/>	Dewatering (Std. & Spec 3.28 and/or Arlington County Std. & Spec from approved ESC plan)			
<input type="checkbox"/>	Turbidity Curtain (Std. & Spec 3.27 and/or Arlington County Std. & Spec from approved ESC plan)			
<input checked="" type="checkbox"/>	Tree Protection (Arlington County Std. & Spec from approved ESC plan)			
<input type="checkbox"/>	Stream Crossing / Cofferdams (Std. & Spec 3.25 or on plan)			
<input type="checkbox"/>	Pump Around System (detail on approved plan)			
<input type="checkbox"/>	Rip Rap (Std. & Spec. 3-19)			
<input type="checkbox"/>	Other(s) [describe]			

Pre-Storm Erosion and Sediment Control Checklist

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

☐ Perimeter controls (silt fence, hay bales, stone berms) used to prevent sediment from leaving the site shall be checked for undermining, holes, or deterioration and repaired/replaced if needed.

☐ Sediment that has accumulated against perimeter controls shall be removed if the depth exceeds more than 1/2 of the silt fence height.

☐ Exposed soil or slopes shall be covered with straw, tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.

☐ Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side). Stockpiled materials should not obstruct flow along the curb line.

☐ Inlet protection controls shall be inspected to ensure they are installed per approved ESC plan, are functioning properly, and maintained as needed.

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants									Pollution Prevention Practices	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash/Debris, Solids	Other Toxic Chemicals		
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X						X		(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving and saw cutting operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X					X		X		(2)	
Concrete operations, washout, and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X				X		(3)	
Washing / cleaning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X		X	X	(4)	
Dewatering operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X						X		(5)	
Material / chemical use and storage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X	X	X	X	X		X	X	(6)	
Equipment and vehicle maintenance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				X		X		X	X	(7)	
Waste management / disposal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								X	X	(8)	
Sanitary waste	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			X	X			X			(9)	
Nutrient management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X						X	X	(10)	

Arlington County SWPPP 11/2016

STORMWATER POLLUTION PREVENTION PLAN

7.0 Spill Prevention & Response

Most spills can be cleaned up using a spill kit. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at the project site.

1st Priority: Protect all people

2nd Priority: Protect equipment and property

3rd Priority: Protect the environment

1. Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.

2. Ensure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.

3. Stop the spill source.

4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.

5. If possible, stop spill from spreading and/or entering storm drains (use absorbent or other materials as necessary).

6. If spilled material has entered a storm drain; contact Arlington County Fire Department and project manager.

7. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.

8. Properly dispose of cleanup materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Local Contacts

Arlington County Fire & Police

DES Water, Sewer, Streets 24-Hour Emergency

Washington Gas Emergency

503-558-2222

703-228-6555

703-750-1400

Nights, Holidays & Weekends

VA Dept. of Emergency Management

24 Hour Reporting Service

804-674-2400

Spill kit on site: ☐ Yes ☐ No

Location(s) of spill kit:

Arlington County SWPPP 12/2016

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

FACILITIES & ENGINEERING DIVISION

ENGINEERING BUREAU

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ARLINGTON, VA 22201

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FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA

Peter Rigby

PETER J. RIGBY JR.

Lic. No. 019746

07/27/19

PROFESSIONAL ENGINEER

APPROVALS

DATE

Amy Pflaum

8/5/2020

QUALITY CONTROL ENGINEER

Kamal Taktak

8.6.20

CONSTRUCTION MANAGEMENT SUPERVISOR

08.05.2020

WATER, SEWER, STREETS BUREAU CHIEF

Dennis M. Leach

8/6/20

TRANSPORTATION DIRECTOR

8.6.2020

PROJECT MANAGER

REVISIONS

DATE

N. PERSHING DR. & WASHINGTON BLVD.

DC19

N. PERSHING DR. @ WASHINGTON BLVD.

STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: K. PATEL

DRAWN: K. PATEL

CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

N/A

C035.1

N. PERSHING DR. & WASHINGTON BLVD. DC19

Department of Environmental Services

LDA Permit SWPPP Minimum Acceptance Criteria (MAC) Checklist

February 2018

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

Project Name: N PERSHING DRIVE

Address: N PERSHING DR. @ WASHINGTON BLVD.

Date: 03/03/2020

General Items		YES	NO	N/A	SHEET
1	Completion of this Front Counter MAC Checklist and all applicable Plan Review MAC Checklists.	X			
2	Submit and sign the MAC Checklist with the civil engineering plan for first submittal only.	X			
3	Include a Cover Sheet with the following information	X			
a	Name of project	X			C000.1
b	Include the address, if known at the time of submission.	X			C000.1
c	Vicinity Map indicating the North arrow; label all streets	X			C000.1
d	Name, address, phone number and email of Contractor				
e	Name, address, phone number and email of Owner	X			C000.1
f	Name, address, phone number and email of Engineer	X			C000.1
g	Table of Contents/ Sheet Index	X			C000.1
5	Include an Existing Conditions Plan Sheet, Demolition Plan Sheet and Site Plan Sheet	X			
6	Include the following within the Plan, on applicable Plan Sheets	X			
a	Graphic Scale on ALL plan sheets	X			
b	North Arrow on ALL plan sheets	X			ALL
c	Current Field Survey Topography (certified)	X			C011.1
d	Site Areas (Post Dedication and Post Vacation)		X		
e	Total site area of property in sq ft and acres		X		
f	Existing and Proposed Easements on an exhibit	X			C011.1
g	Real Property Identification Map Number, RPC Numbers	X			ALL
h	Legends	X			C006.1
8	Engineer's Seal/ Signature - Signed and dated on all sheets	X			

Erosion and Sediment Control Plan		YES	NO	N/A	SHEET
1	Include the Following on Erosion and Sediment Control Plan Sheets				
a	E&S Control Plan and Site Plans	X			C031.1
b	E&S Control Narrative	X			C032.1
c	E&S Control practices detail drawing (dewatering device, etc.)		X		
d	E&S Control Plan Legend	X			C031.1
e	Virginia Erosion and Sediment Control Handbook (VESCH) specification numbers	X			C031.1

1 of 3

f	Blank Responsible Land Disturber Letter	X			C035.2
2	General E&S Control Notes and General Land Conservation Notes	X			C032.1
3	Landscape Conservation Plan with the following clearly indicated				
a	Determination of the critical root zone		X		C031.1
b	Tree protection fencing		X		C032.4
c	Signage				C091.1
d	Critical Root zone mitigation, such as root pruning, padding, or other root protection methods		X		
e	Note requiring county arborist inspection before any land disturbance activity		X		
	Tree inventory of all trees larger than 3 inches DBH, either on site or with a critical root zone encroaching the limit of disturbance. This list will contain information on species, size, health, whether the tree is protected or not, and other issues, such as location in the RPA, disease concerns, or invasive species presence			X	
g	Tree canopy coverage calculation			X	
h	RPA delineation, if applicable			X	
i	For 4.1 site plans and public projects, a calculation of the tree replacement value of removed trees			X	

Stormwater Management Plan		YES	NO	N/A	SHEET
1	Include the following on Stormwater Management Plan Sheets			X	
a	Runoff Reduction Spreadsheet			X	
b	Design details and reference of stormwater facilities listed in the Runoff Reduction Spreadsheet			X	C032.4
c	Facility detail, maintenance schedule, material specifications and construction inspection checklist for each stormwater facility proposed			X	
d	Stormwater Management Facility and Site Data Spreadsheet			X	
e	Drainage area boundary and runoff flow arrows			X	
f	Water Quantity Energy Balance Worksheet			X	
g	Waterproofing Note, if applicable			X	
h	Meet requirement for sheetflow and statement of no adverse impact to adjacent properties			X	
i	Indicate sump pump discharge location, tie into the public storm sewer system when possible.			X	
j	Indicate Floodplain boundary and floodplain study OR certification on plan that no floodplain is present			X	
k	Indicate Resource Protection Area (RPA) boundary on plan OR include certified note on plan that no RPA is present. If RPA is present, include Completed Water Quality Impact Assessment (WQIA) form with required elements. Include Completed Exception Request Form on plan (if required), and proposed RPA mitigation			X	
l	Blank Stormwater Facility Maintenance and Monitoring Agreement			X	
m	SWM# on the coversheet, once assigned after 1st review			X	C000.1

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

2 of 3

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

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

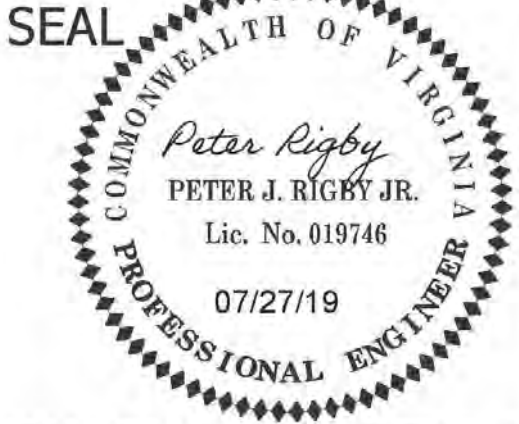
Signature

Date



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FACILITIES & ENGINEERING DIVISION
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2100 CLARENDON BOULEVARD, SUITE 813
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APPROVALS DATE

Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Taktak 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 8/6/20
TRANSPORTATION DIRECTOR
Oliver J. Jorgensen 8.6.2020
PROJECT MANAGER

REVISIONS DATE

STORMWATER POLLUTION PREVENTION PLAN

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
Arlington County Projects
(Linear Development / Stormwater Retrofit)

For Construction Activities At:

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Arlington, VA 22205

Latitude: 38.880630 N (decimal degrees)

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Construction Activity Operator:

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2100 Clarendon Blvd Suite 813
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ktaktak@arlingtonva.us
Kamal Taktak
703-228-7527

SWPPP Preparation Date:

03/03/2020

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Operator Name: Peter Rigby

Title: Design Team Supervisor, Department of Environmental Services

Signature: [Signature]

Date: 03/03/2020

Arlington County SWPPP 12/2016

N. PERSHING DR. & WASHINGTON BLVD.
DC19

N. PERSHING DR. @ WASHINGTON BLVD.

STORMWATER POLLUTION PREVENTION PLAN

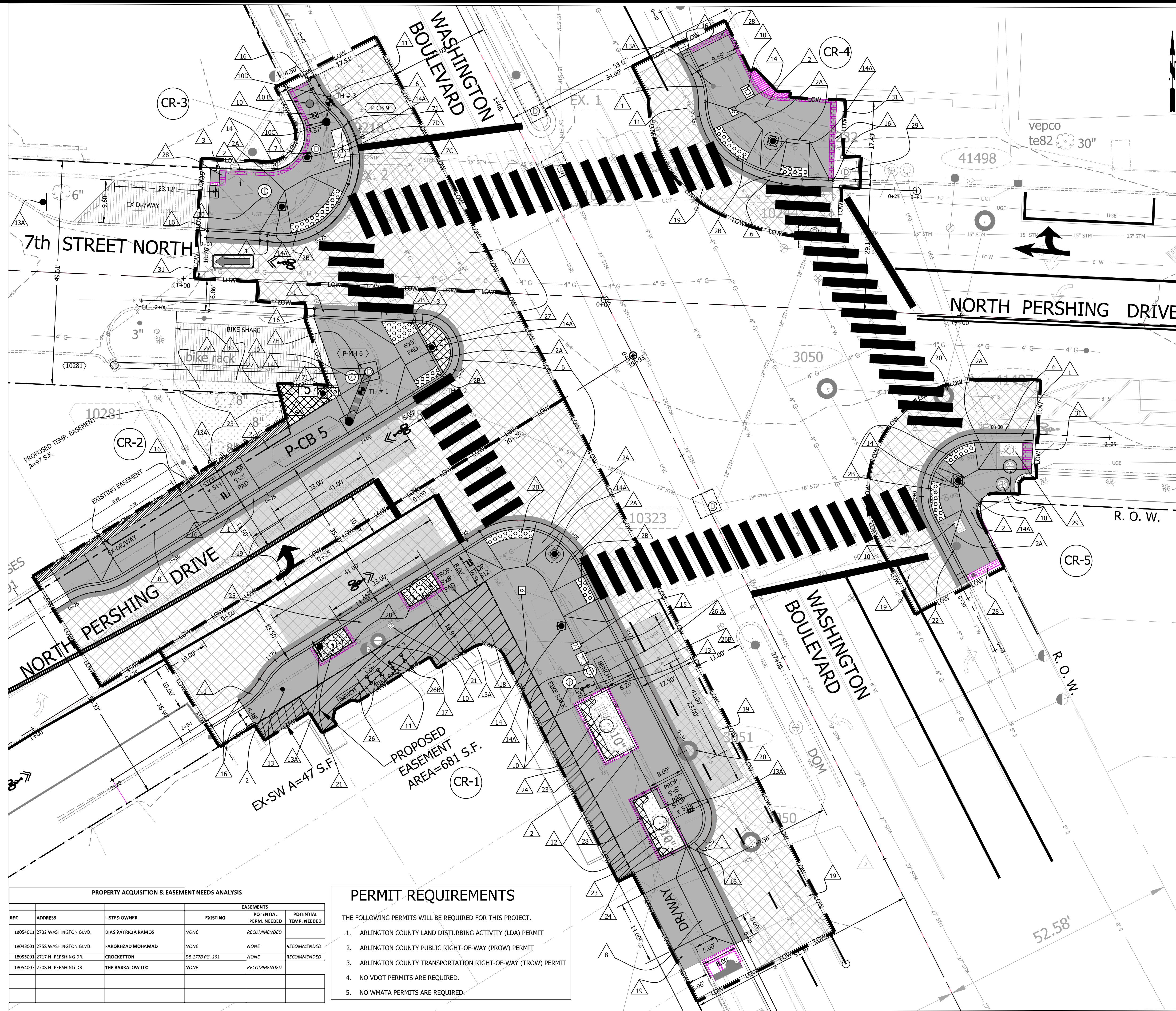
DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

N/A

C035.2



1 PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)

2 PROP SIDEWALK ARLINGTON. STD (R-2.0), SEE HARDSCAPE DETAILS SHEET # C092.2

2A PROP MODIFIED RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (203.06) SEE CURB RAMP DETAIL SHEET #C002.1

2B CG-12 DETECTABLE WARNING SURFACE

3 PROP HEADER CURB (C-3) ARL STD (R-2.0)

6 REPLACE EXISTING ASPHALT WITH 5" BM-25.0A AND 2" SM-9.5D

7 REMOVE EXISTING CATCH BASIN, ABANDON STORM PIPE IN PLACE, INCLUDING CAPPING ALL OPEN ENDS.

7C CONNECT EXISTING PIPE TO PROPOSED STRUCTURE PER ARL CONST# SPEC 02505 - 3.5

7D CONVERT EXISTING MANHOLE EX-2 TO PROPOSED CB-2 (P-CB 9)

7E CONVERT EXISTING CATCH BASIN TO STORM MH-1 (ARLINGTON COUNTY DETAIL D-3.0)

7J PROP STANDARD CATCH BASIN, CB-2 PER ARL STD (D-1.2)

8 PROPOSED COMMERCIAL DRIVEWAY ENTRANCE AS PER COUNTY STD. DWG. (R-2.4C)

10 UTILITY MH OR TRAFFIC BOX, VERTICAL ADJUSTMENT TO NEW GRADE, ARLINGTON COUNTY STANDARD (DETAIL S-2.5)

10B REMOVE EXISTING FIRE HYDRANT

10C INSTALL NEW FIRE HYDRANT

10D 6" WATER MAIN DIP CL-53, (UP TO 6' DEEP)

11 ADJUST EXISTING WATER VALVE TO NEW GRADE

12 REMOVE PARKING METER BY OTHERS

13 REMOVE TRAFFIC CONTROL SIGN, CONTRACTOR TO CALL ARLINGTON COUNTY @ 703 228-7952 (T.E. & O. DEPARTMENT)

13A NEW TRAFFIC CONTROL SIGNS, WITH NEW POST, INSTALL PER DETAIL (SG-1.0)

14 EXISTING SIGNAL POLE W/ STREET LIGHT TO BE REMOVED BY OTHERS.

14A PROPOSED SIGNAL POLE , BY OTHERS.

15 EXISTING TRAFFIC CABINET TO REMAIN.

16 MATCH EXISTING T.O.C. OR SIDEWALK GRADE. (CLEAN LINE SAW CUT AND RESET CONCRETE SIDEWALK WILL BE NEEDED.)

17 ADJUST EXISTING WATER METER TO NEW GRADE

18 ADJUST EXISTING GAS VALVE TO NEW GRADE

19 ASPHALT MILL AND OVERLAY (4" TO 3") PER TYPICAL SECTION, (SEE DETAILS ON SHEET # C004.1

20 ADJUST SANITARY MANHOLE TO NEW GRADE

21 PROPOSED STREET TREE PER ARLINGTON CO. SPECS. 329100 & 329300. BY OTHERS, SEE DETAILS (SEE SHEET # C092.1)

22 EXISTING FIRE HYDRANT TO REMAIN

23 PROTECT TREE DURING CONSTRUCTION OF PROPOSED WORK AS SHOWN. CALL URBAN FORESTER (702-228-6557) PRIOR TO BEGINNING WORK ADJACENT TO TREES. PROCEED WITH WORK AS DIRECTED BY THE ENGINEER IF ANY CONFLICT ARISES WITH PROPOSED WORK.

24 EXPAND EXISTING TREE PIT

25 CONTRACTOR TO PROVIDE CONTINUOUS SOIL PANEL BETWEEN TWO PLANTERS PER ARLINGTON CO. STANDARD(R-7.0)

26 REMOVE AND RESET EXISTING BENCH AND BIKE HOOPS TO INDICATED LOCATION.

26A PROVIDE NEW BENCH, SEE DETAILS ON SHEET C004.1

26B PROVIDE NEW BIKE HOOPS, SEE DETAILS ON SHEET C002.1

27 PROPOSED SOD AND 4" TOP SOIL PER ARLINGTON STD. & SPEC. SECTION 329200 SEEDING AND SODDING.(PLEASE SEE SHEET # C091.1 LANDSCAPE PLAN

28 PROPOSED BRICK PAVERS, SEE DETAILS ON SHEET # C092.2. & C091.1 LANDSCAPE PLAN.

29 EXISTING CATCH BASIN TO REMAIN IN PLACE.

30 EXISTING BIKE SHARE AREA TO BE PROTECTED DURING CONSTRUCTION.

31 PROVIDE PROTECTIVE FENCE DURING CONSTRUCTION.



SEAL

COMMONWEALTH OF VIRGINIA

Peter Rigby

PETER J. RIGBY JR.

Lic. No. 019746

07/27/19

PROFESSIONAL ENGINEER


<i>Amy Pflaum</i>	8/5/2021
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>Cheryl</i>	08.05.2021
WATER, SEWER, STREET'S BUREAU CHIEF	
<i>Dennis M. Leach</i>	8/6/20
TRANSPORTATION DIRECTOR	
<i>Oliver Danyachuk</i>	8.6.20
PROJECT MANAGER	

PLAN AND PROFILE

PLOTTED: AUGUST 18 2020

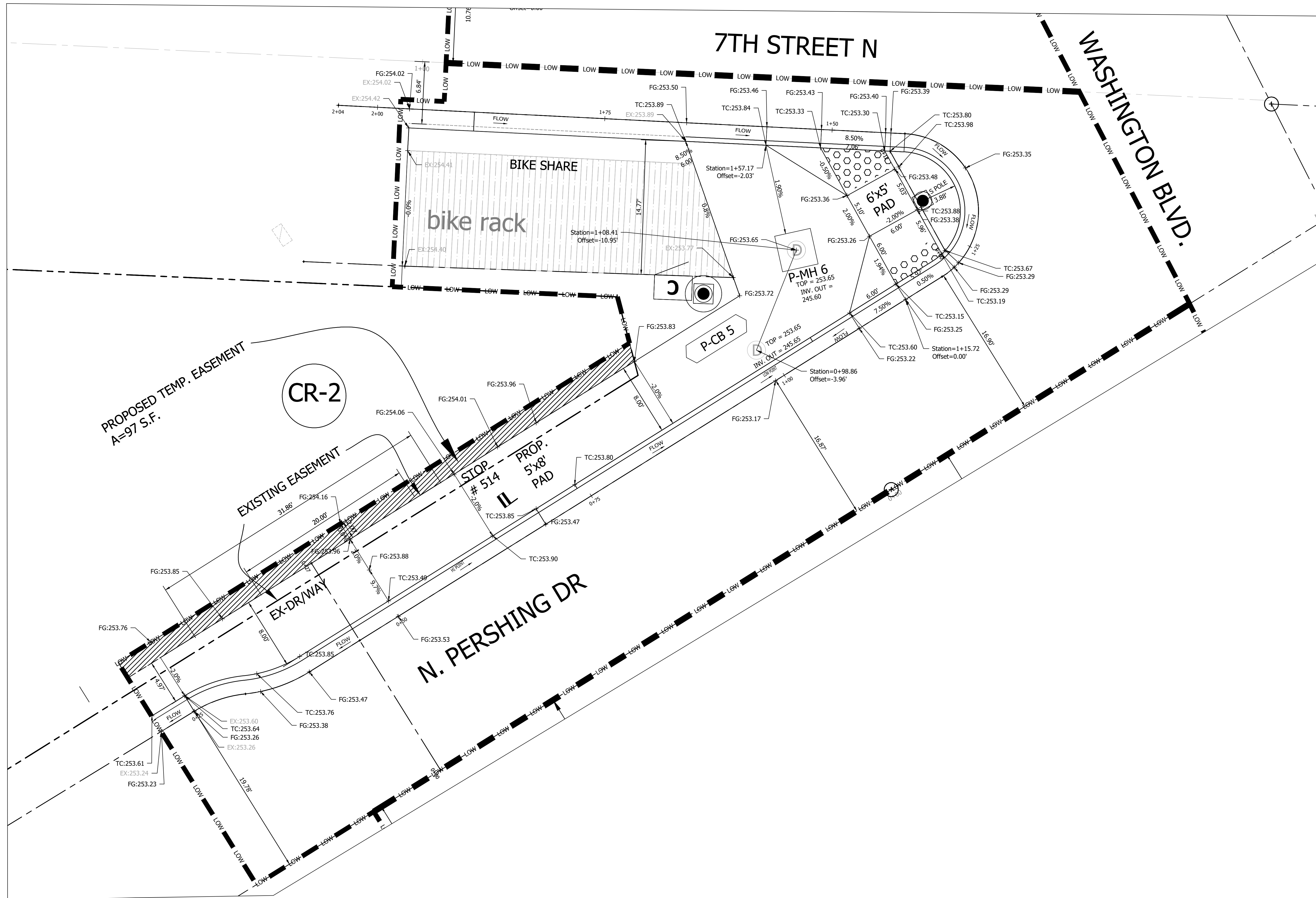
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AS SHOWN



HORIZ. SCALE

C041.1



ARLINGTON VIRGINIA

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SEAL

Peter Rigby
PETER J. RIGBY JR.
Lic. No. 019746
07/27/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	8/5/2020
Kamal Takak CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
Dennis M. Leach WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
Oliver J. Jorgensen TRANSPORTATION DIRECTOR	8/6/20
PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

RAMP_DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 18 2020

SCALE:

C042.2



REVISIONS	DATE
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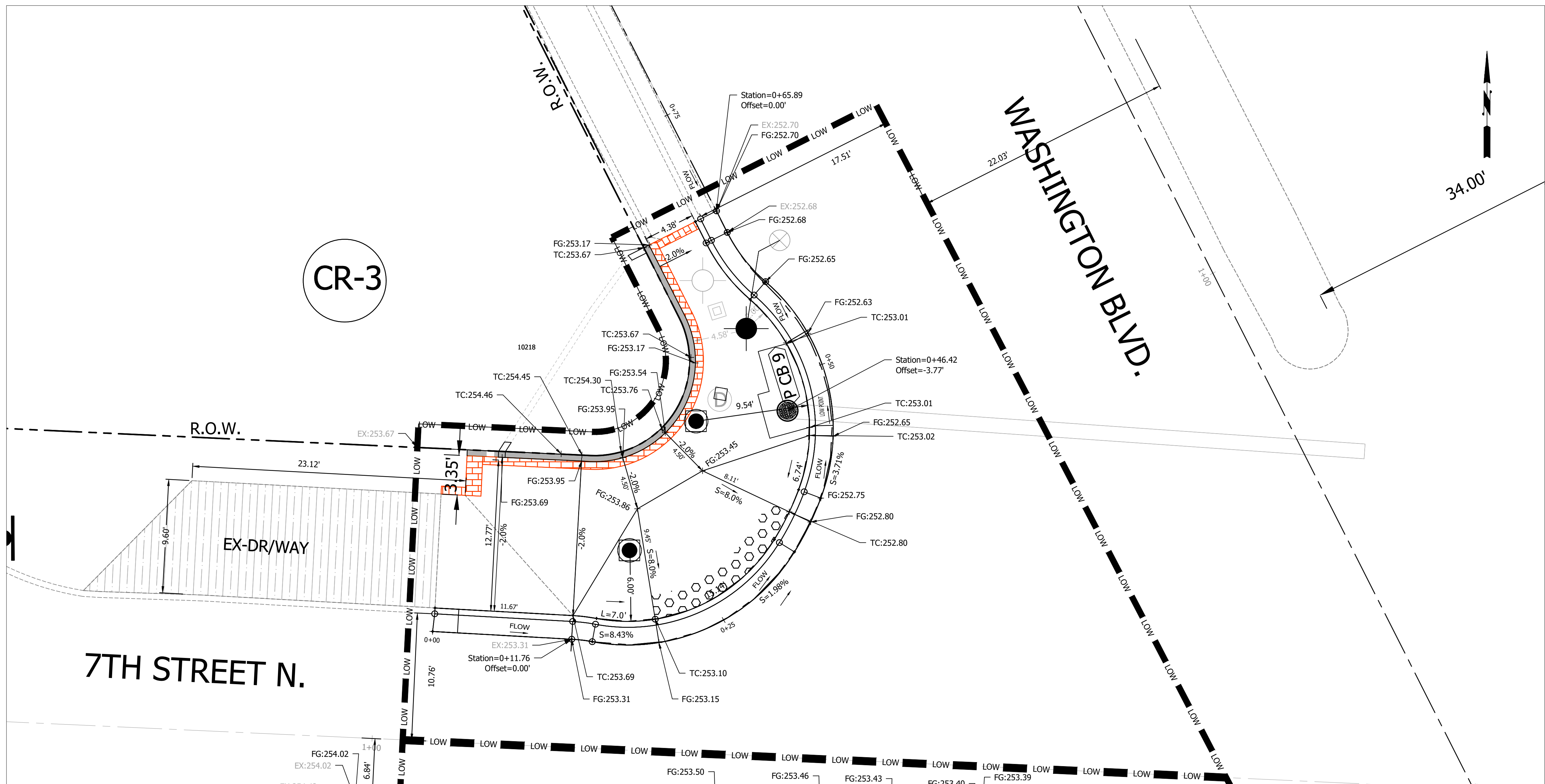
DC19
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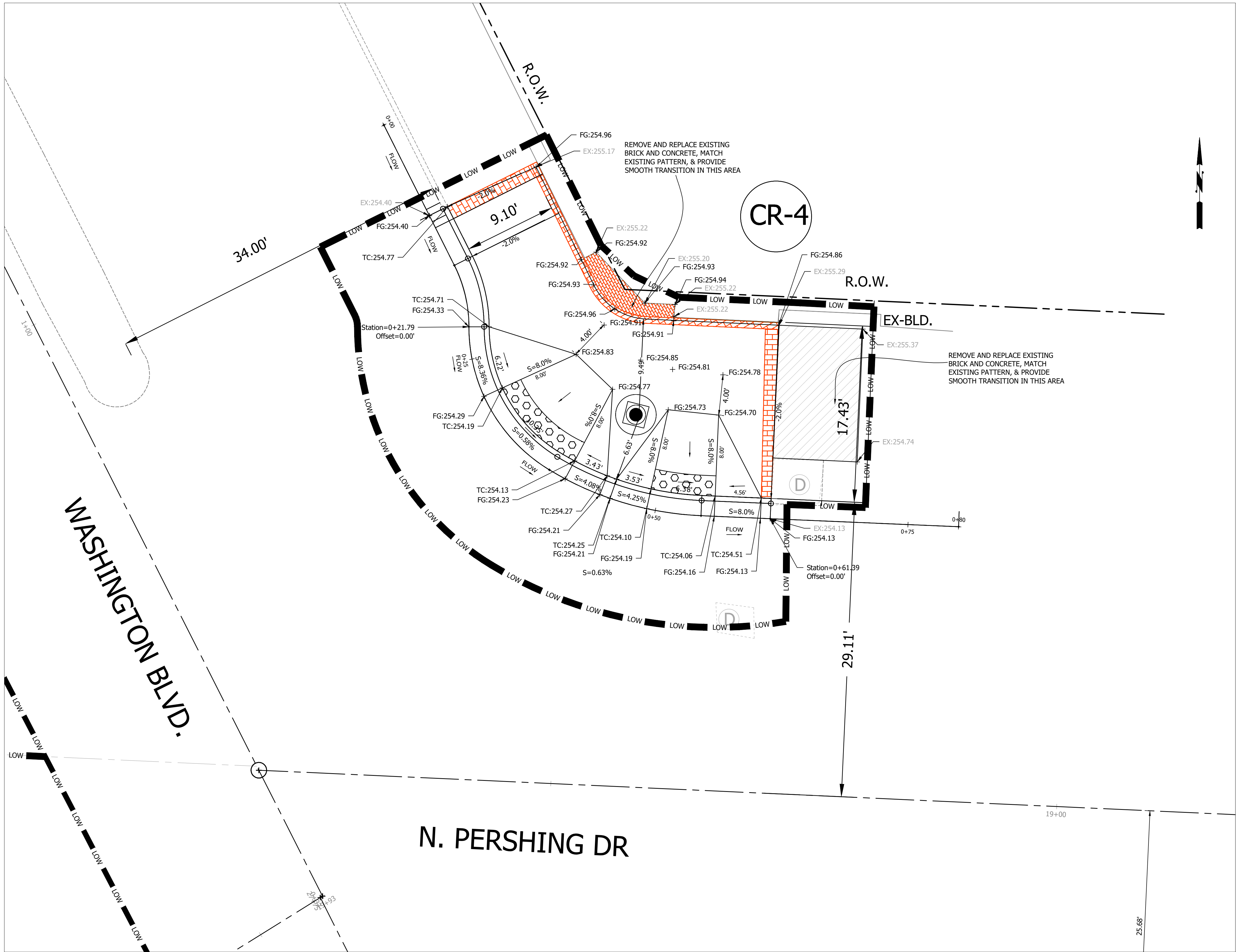
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SCALE:

C042.3





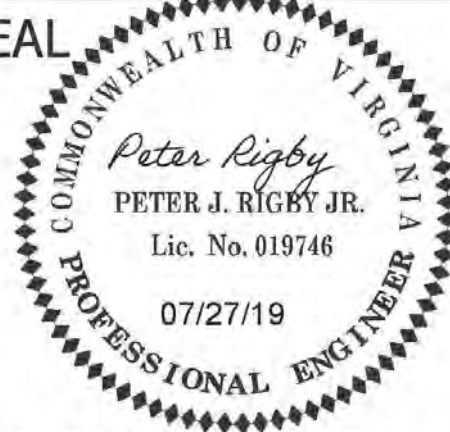


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SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Takak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

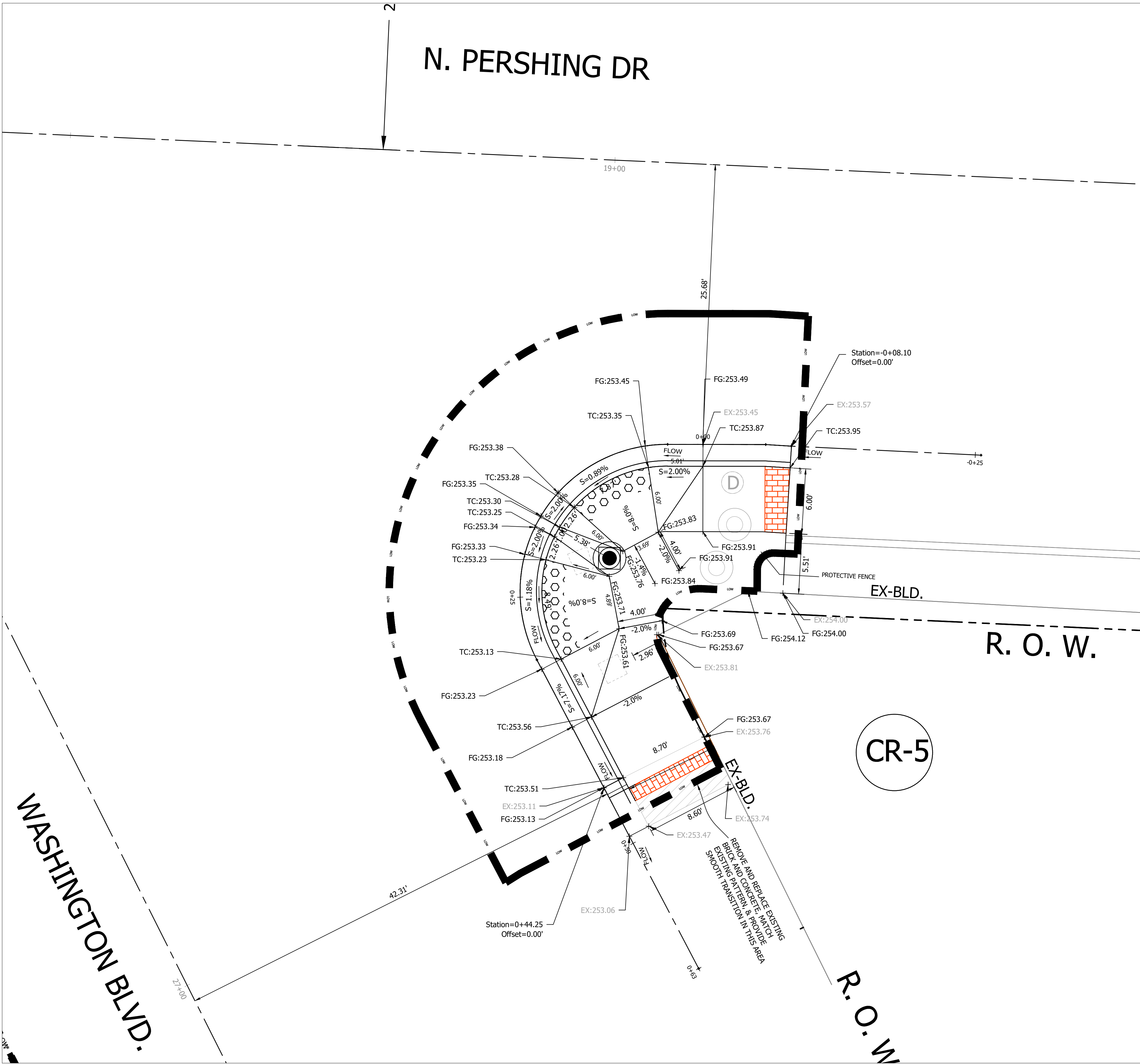
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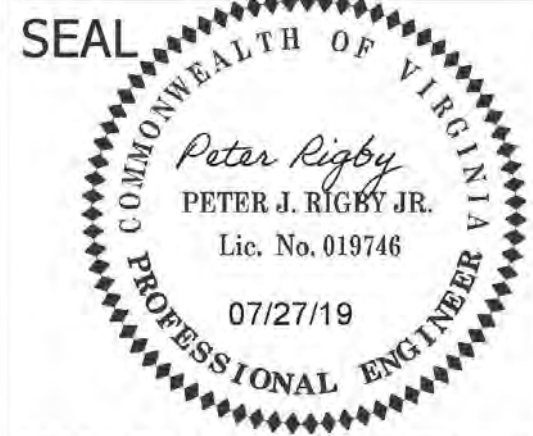
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Takak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Dennis M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Oliver J. Jorgensen</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver J. Jorgensen</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

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RAMP_DETAILS

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DRAWN: K. PATEL
CHECKED: P. RIGBY

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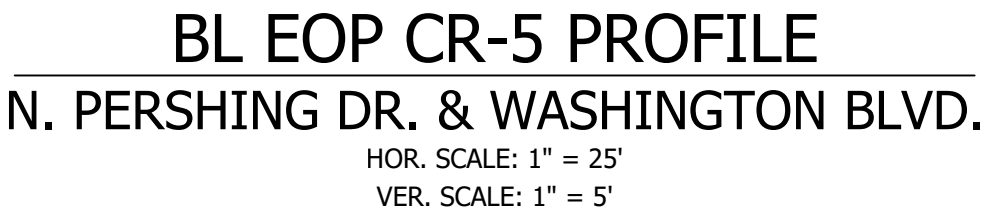
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C042.5



<i>Amy Pflaum</i>	8/5/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>John A. ...</i>	08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis W. Leach</i>	8/6/20
TRANSPORTATION DIRECTOR	
<i>Steve Dwyer</i>	8.6.20
PROJECT MANAGER	

REVISIONS	DATE
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CURB RETURN PROFILES

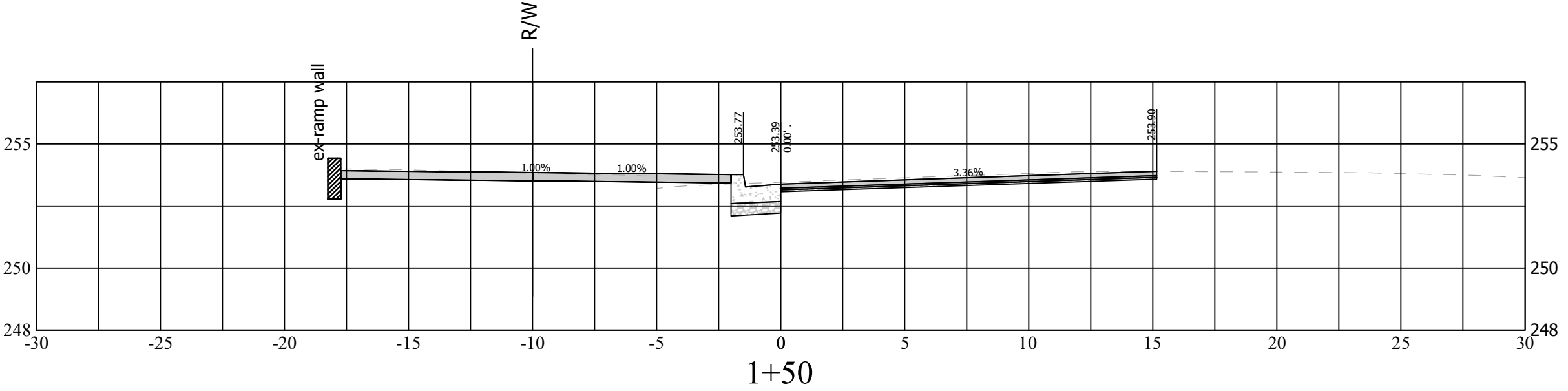
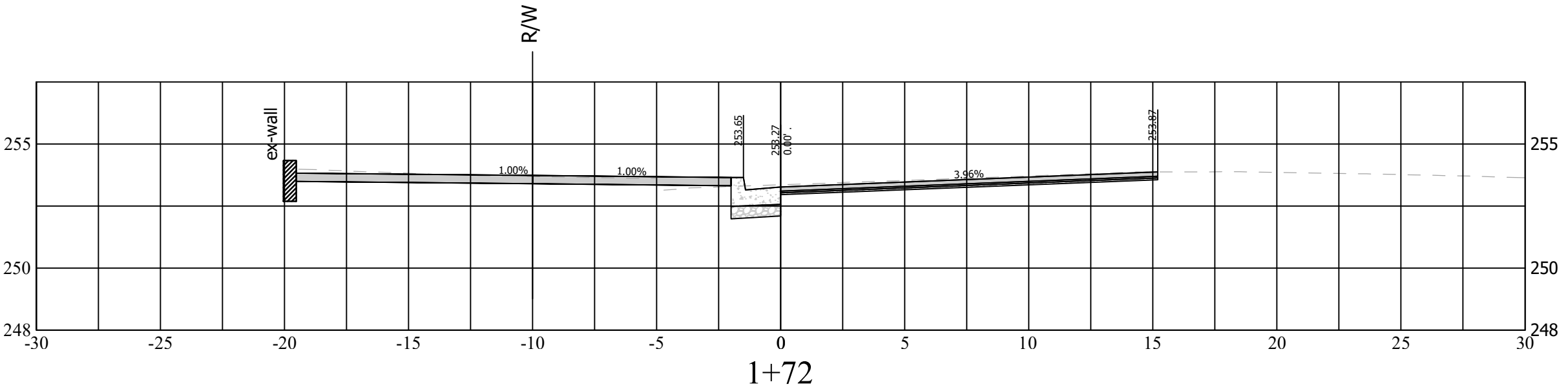
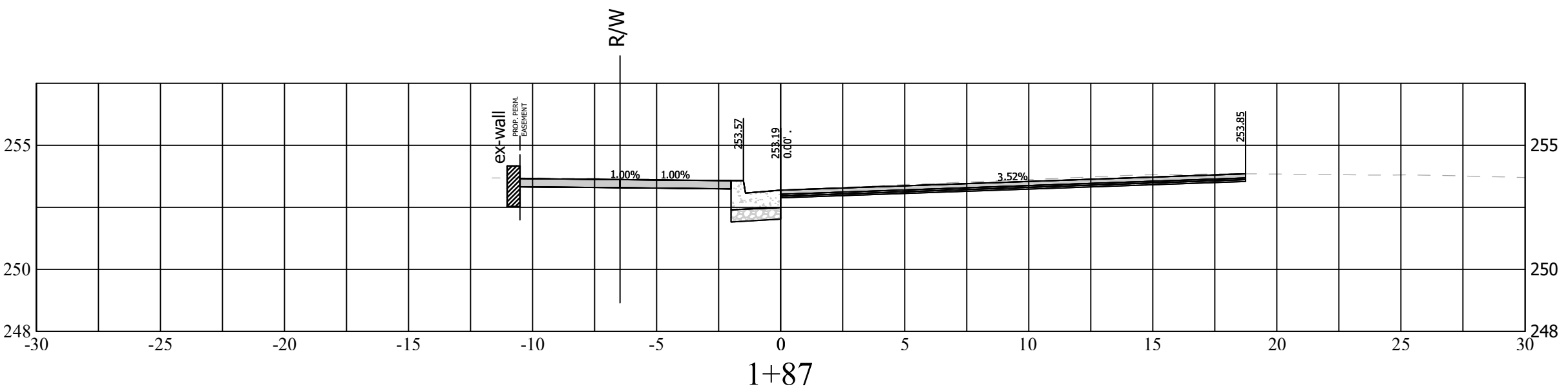
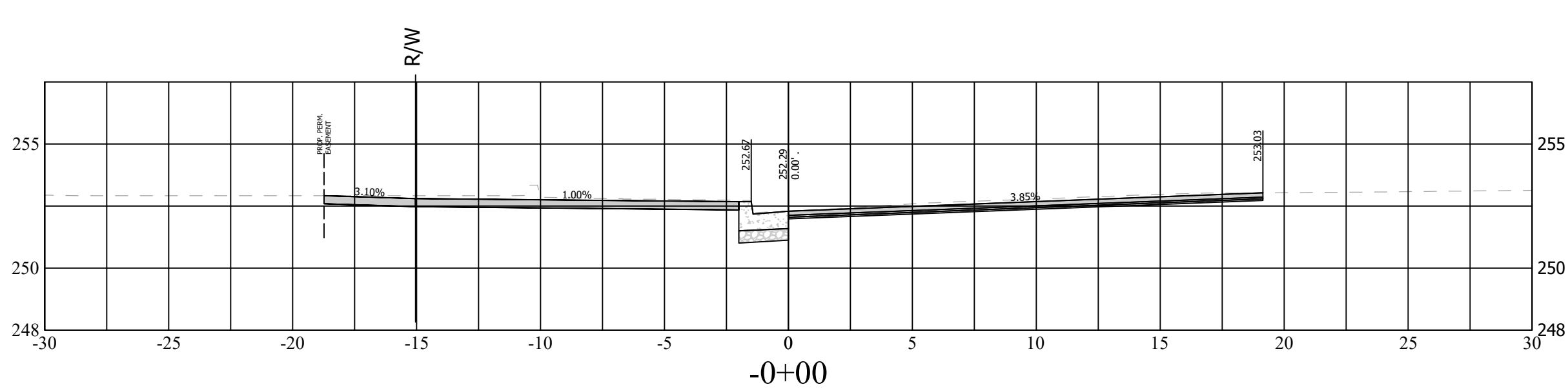
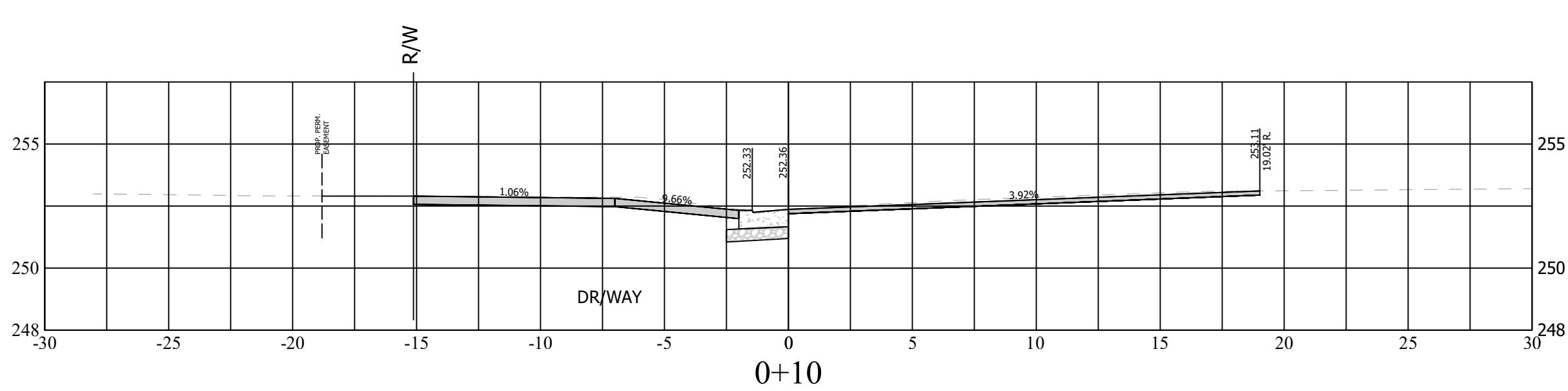
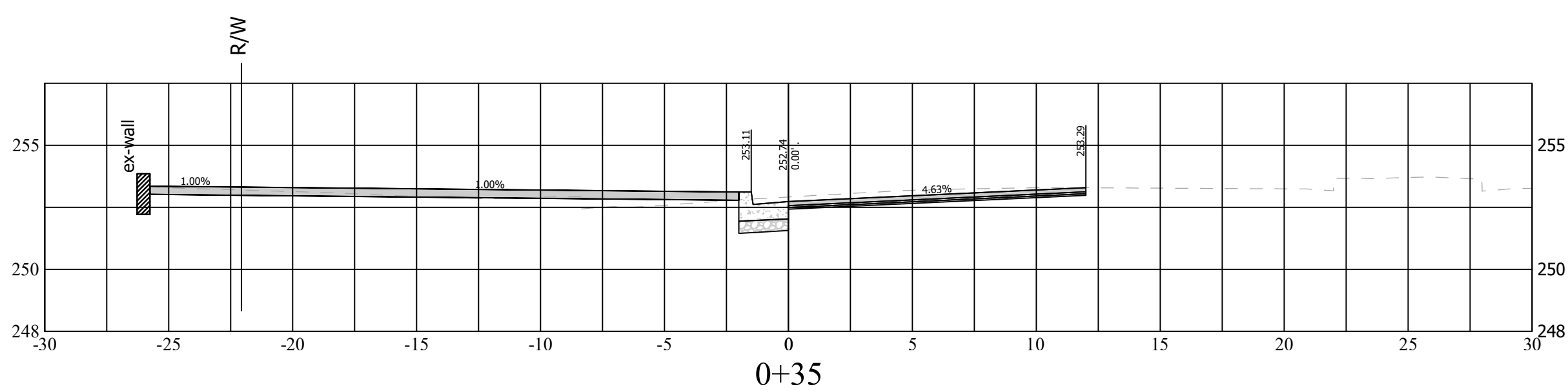
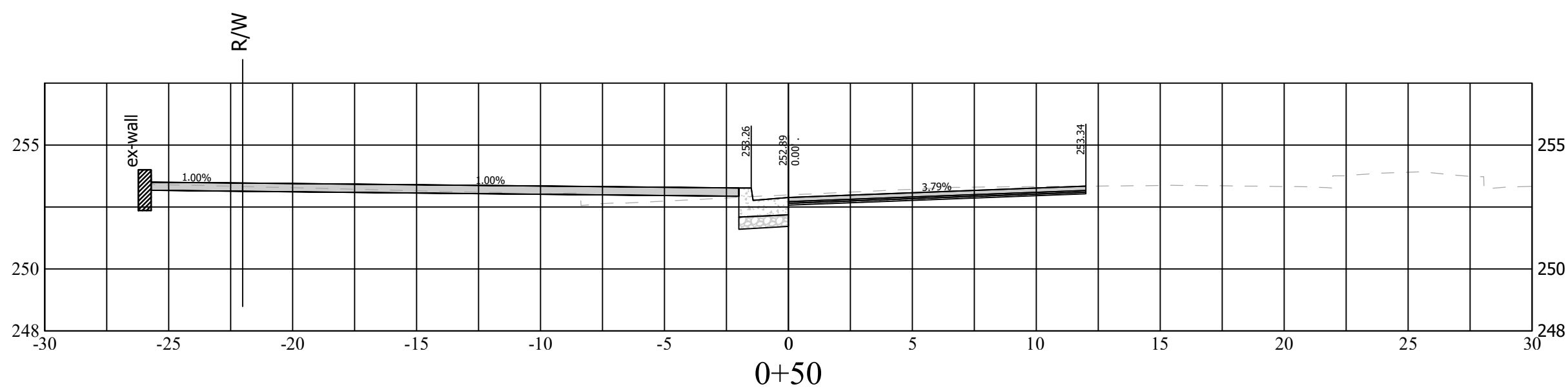
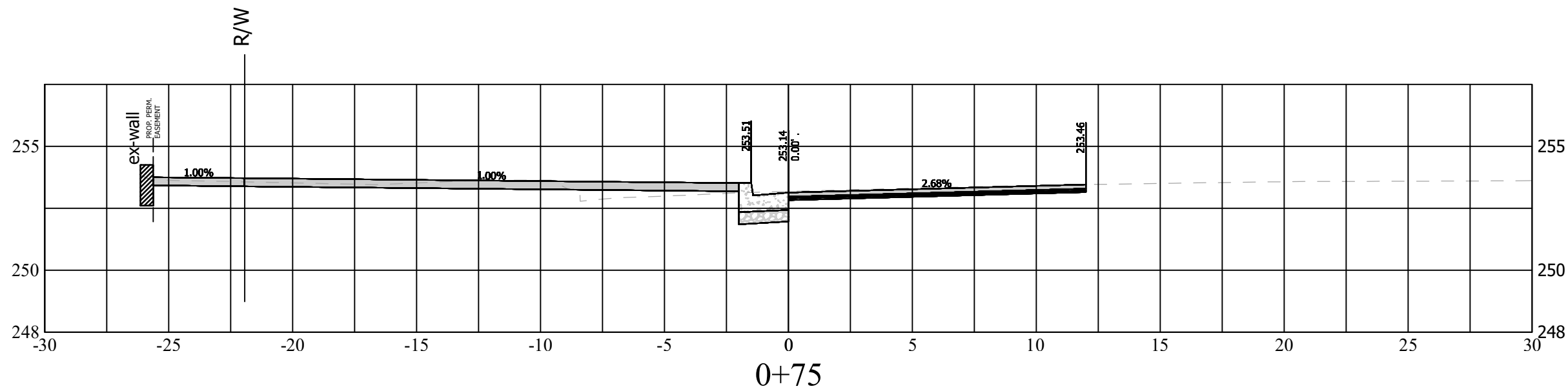
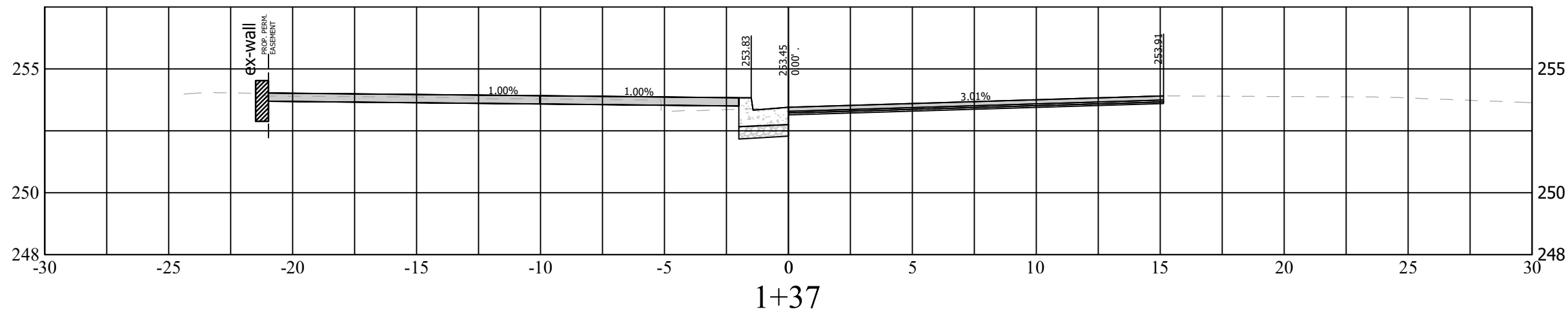
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SCALE:

VERT. SCALE

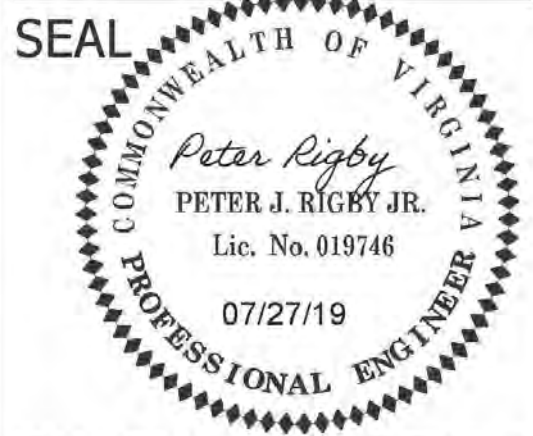
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BL EOP CR1



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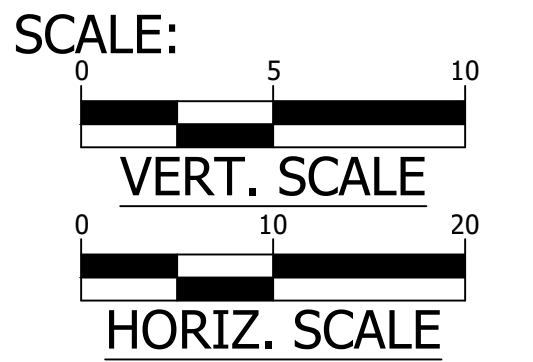
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

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CROSS-SECTIONS

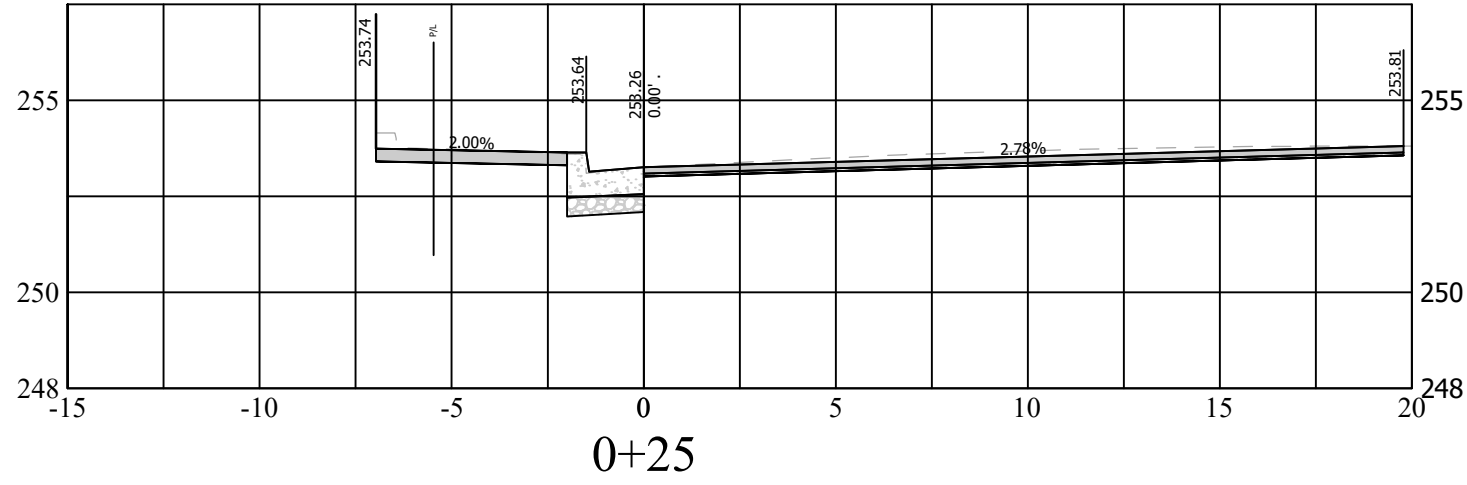
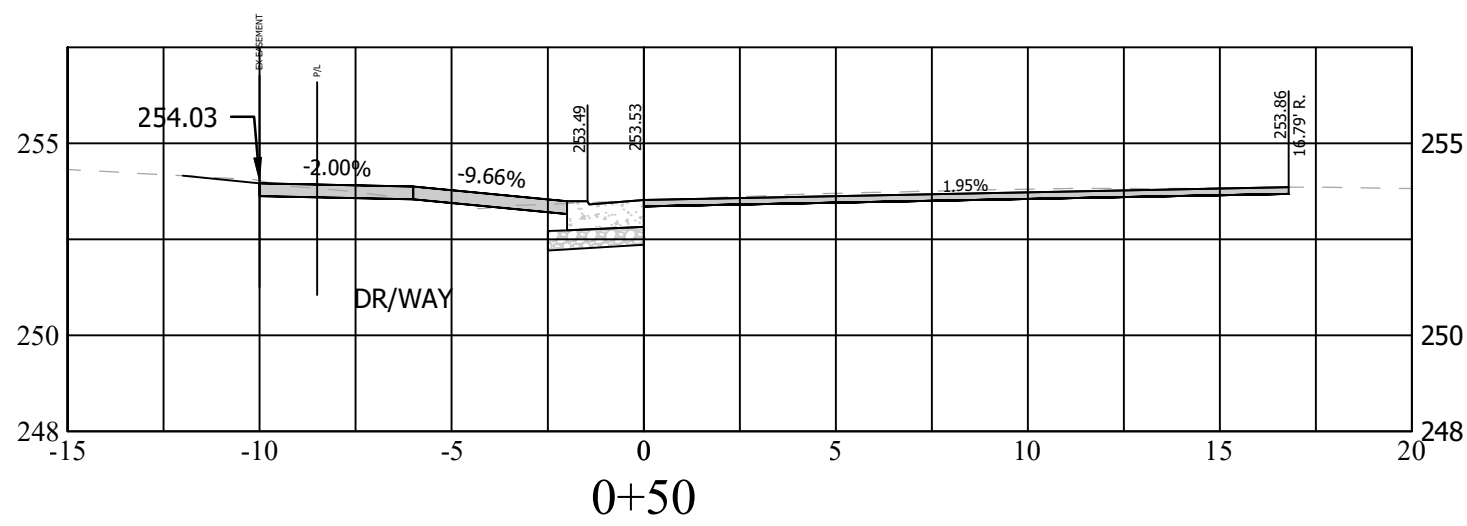
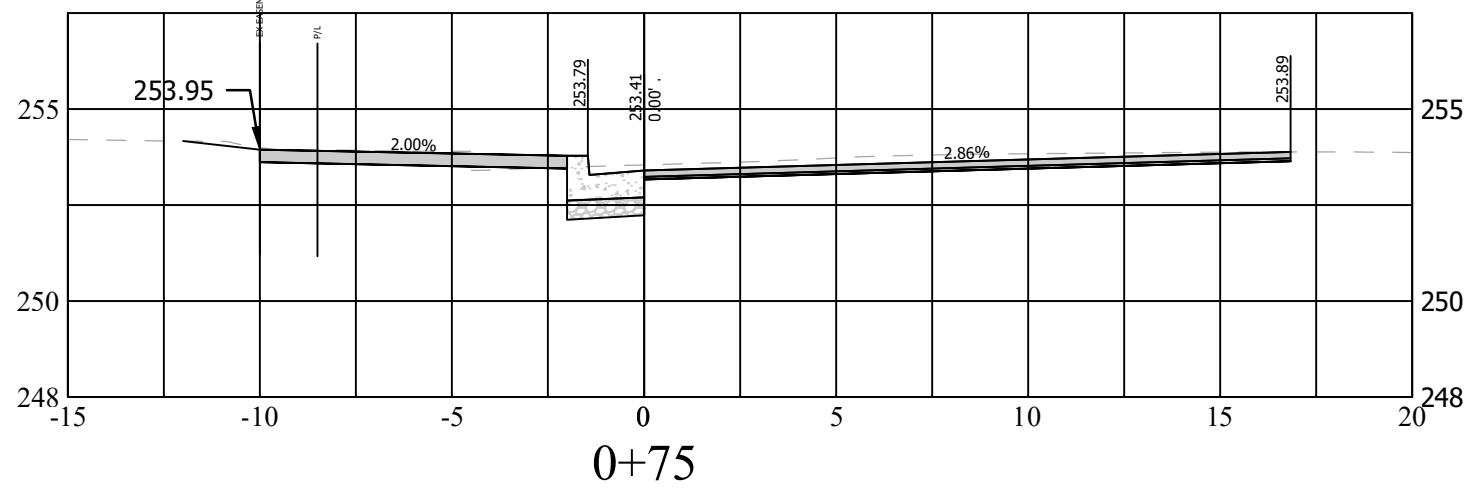
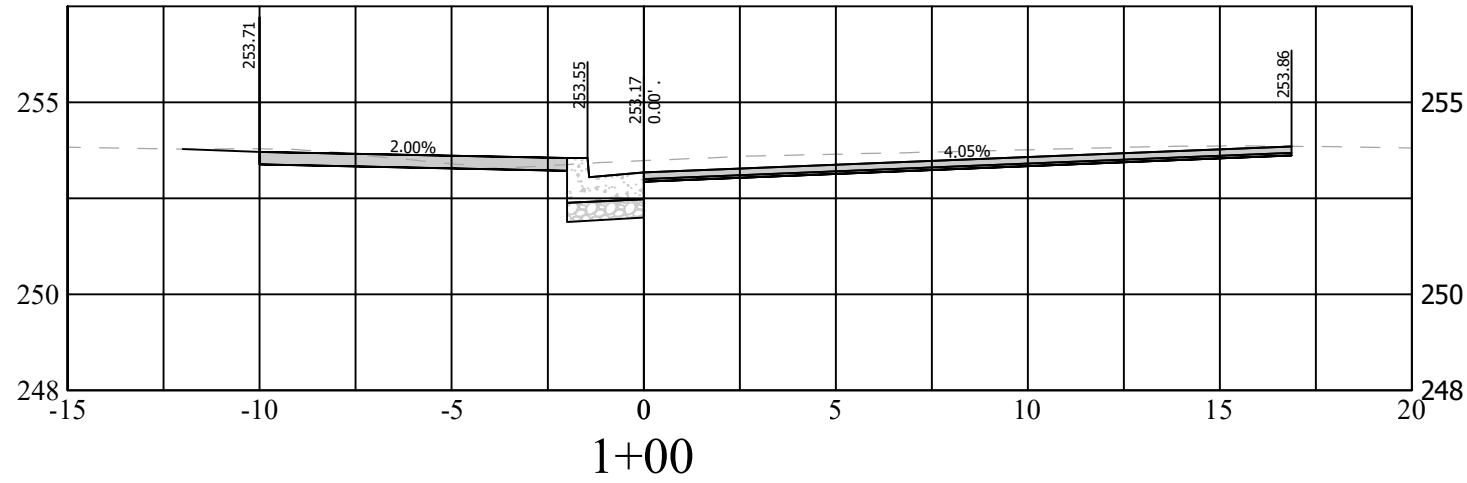
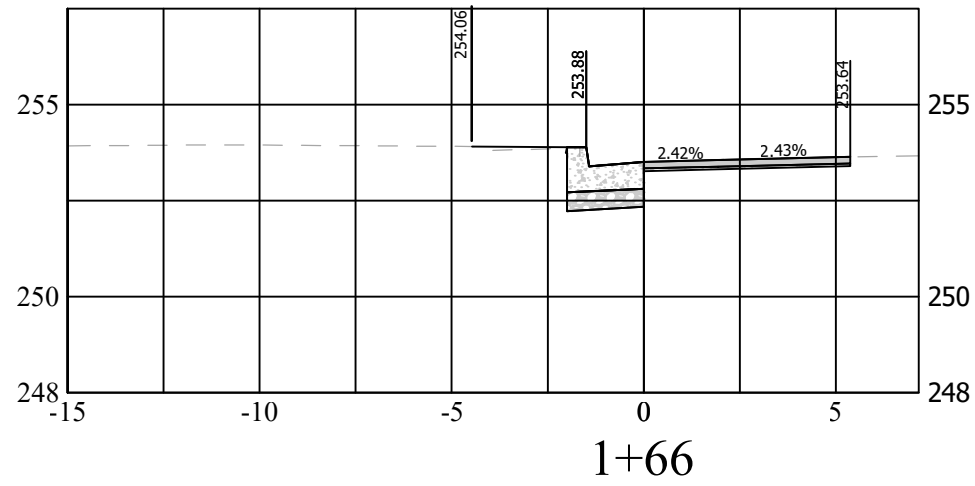
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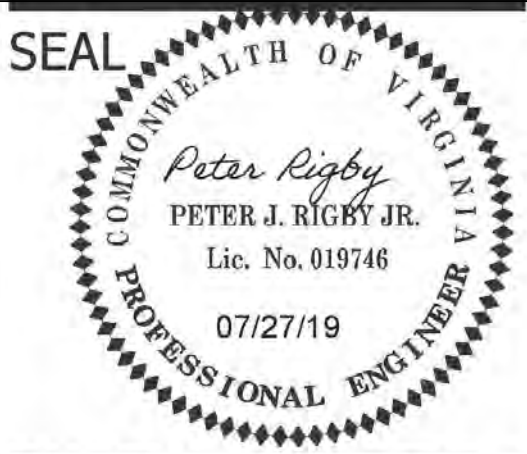
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BL EOP CR2



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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

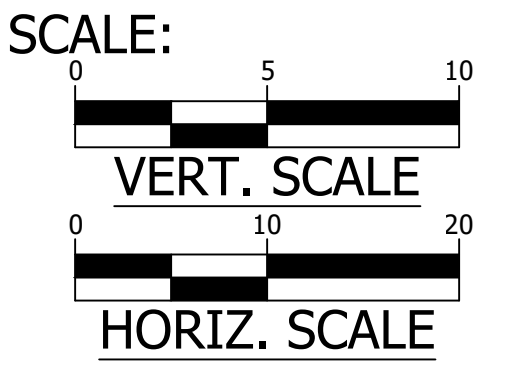
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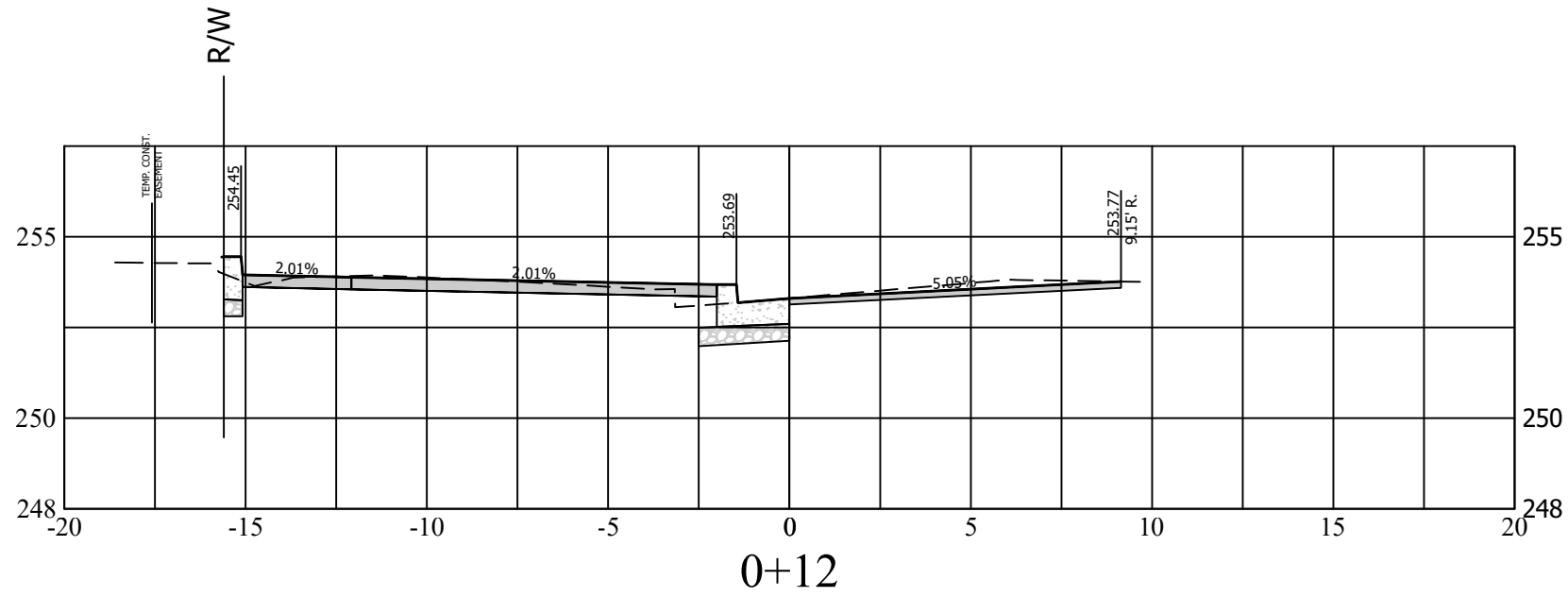
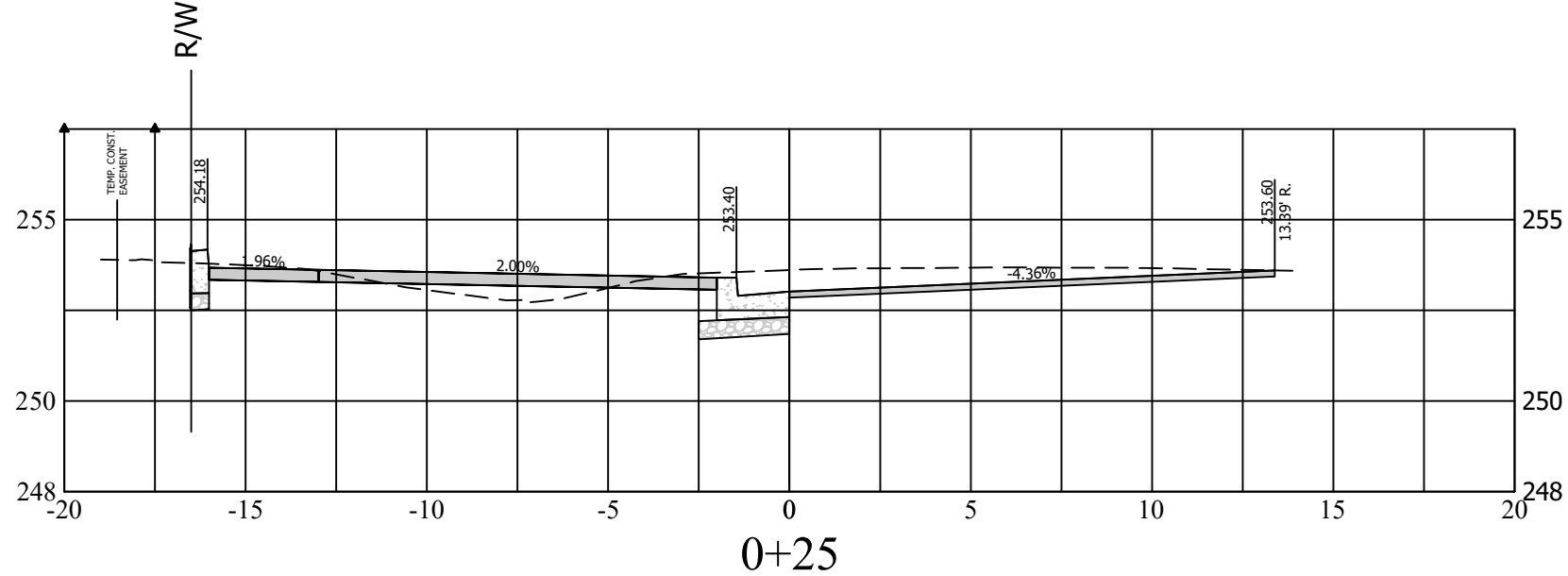
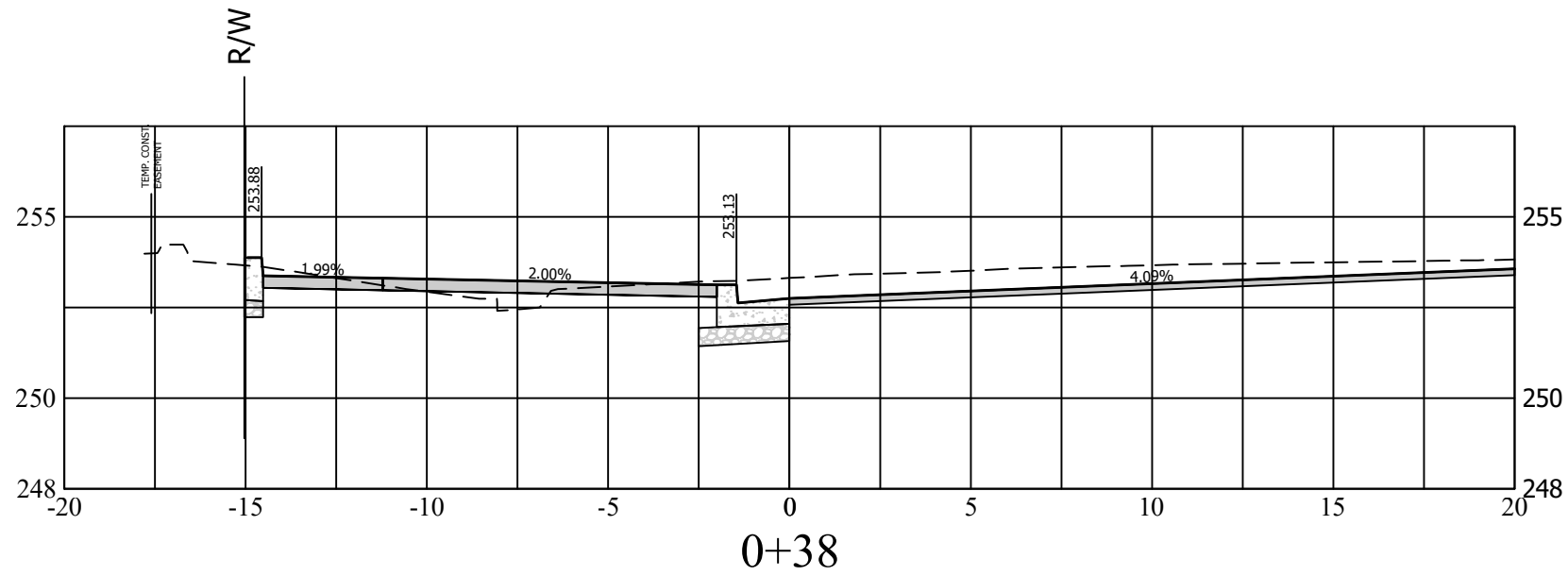
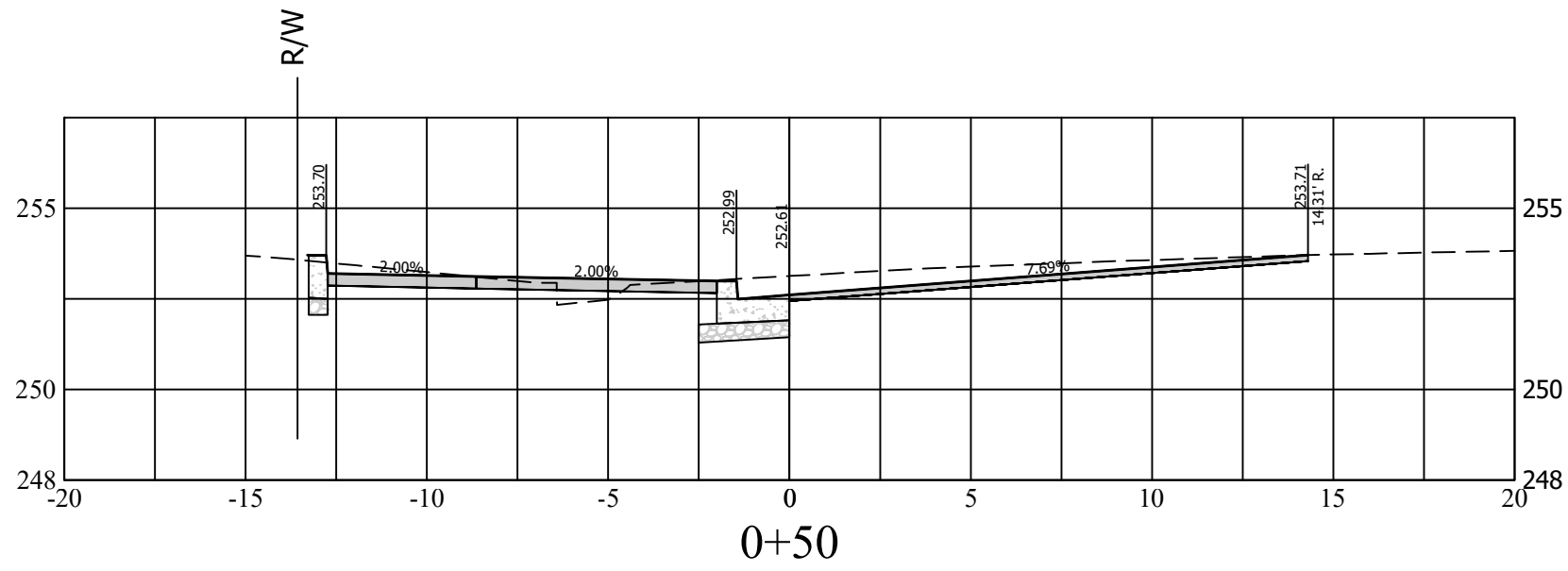
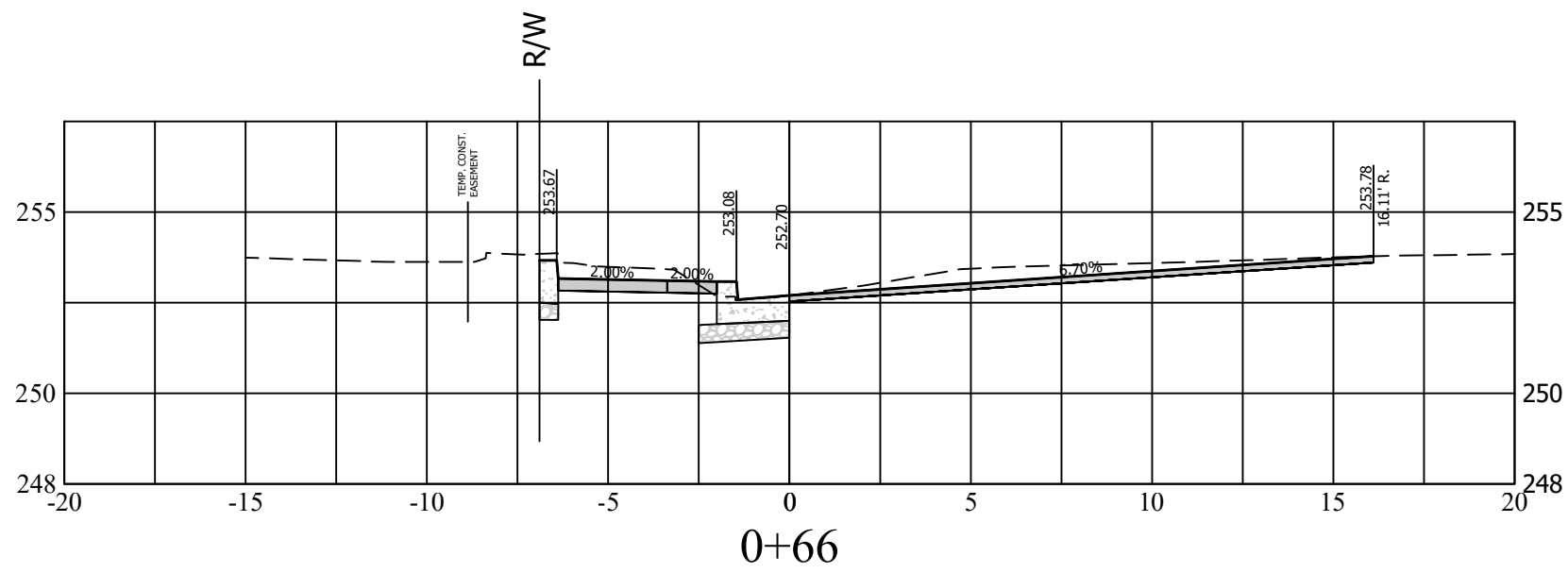
CROSS-SECTIONS

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DRAWN: K. PATEL
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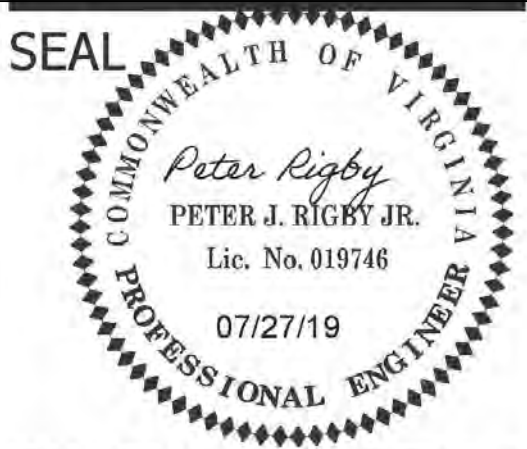
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BL EOP CR3



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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER/SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver Danysh</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

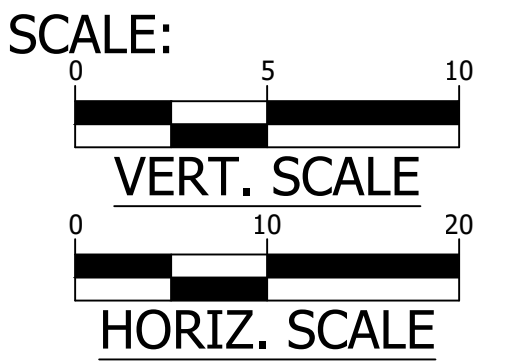
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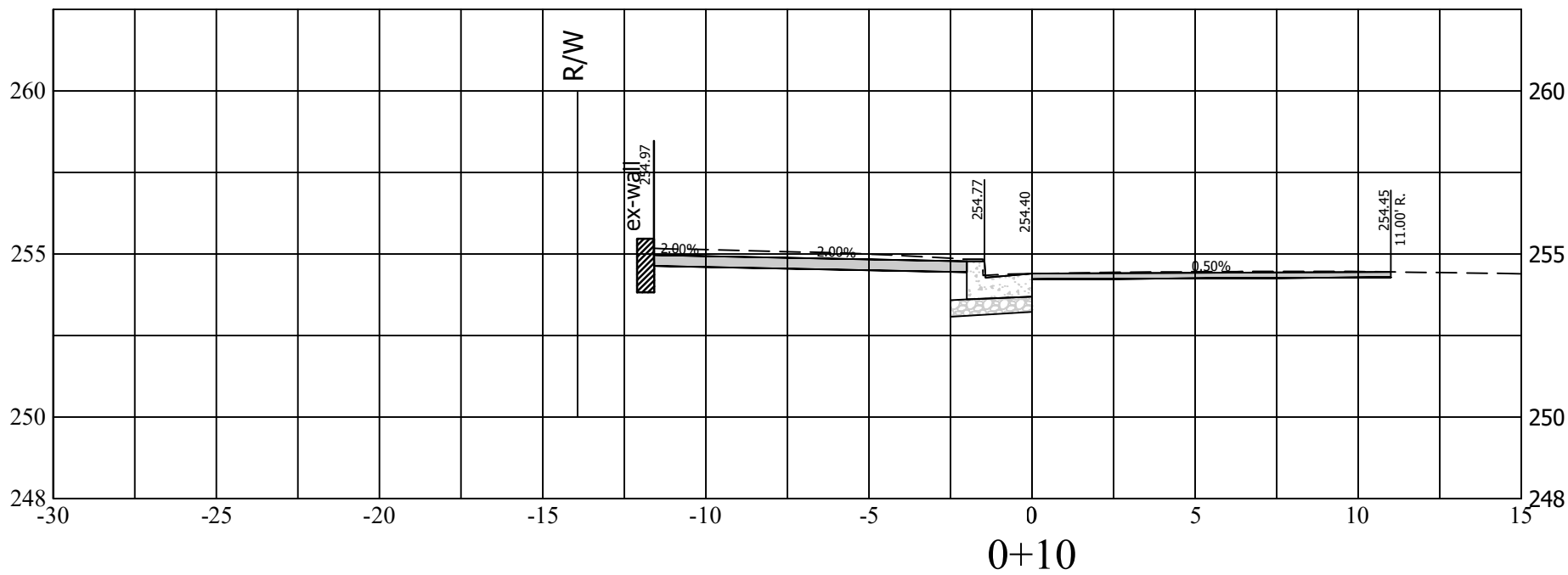
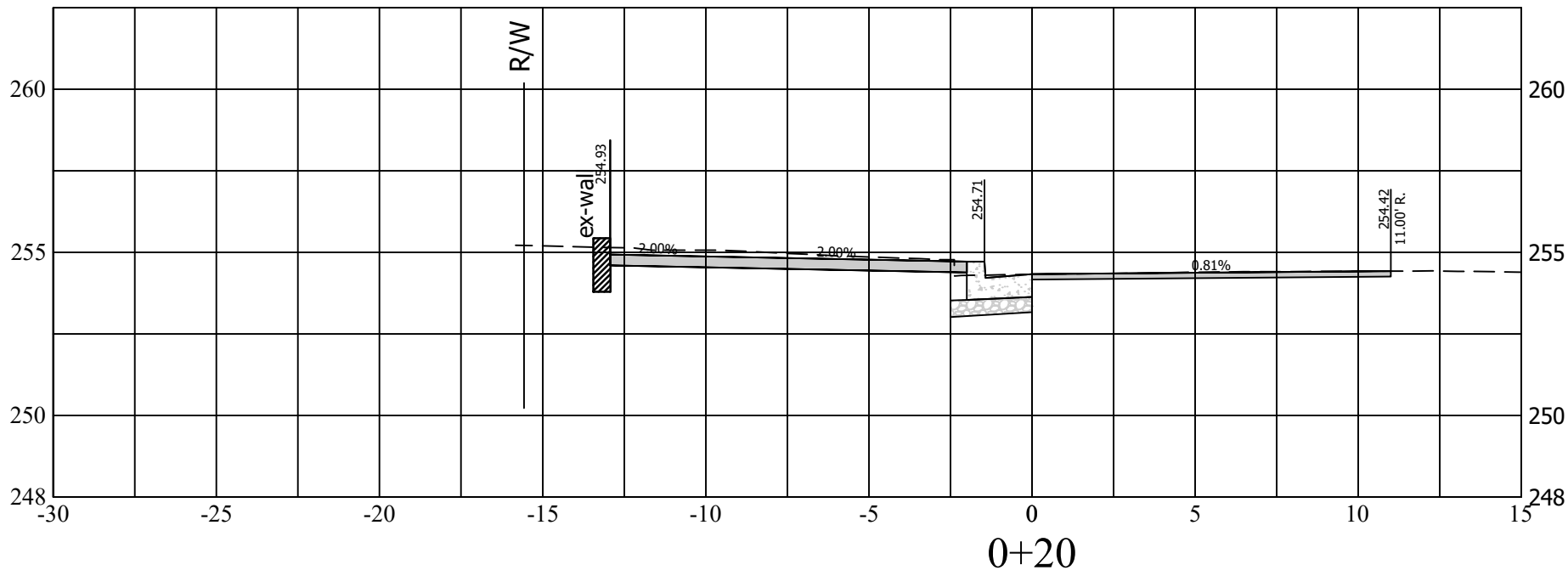
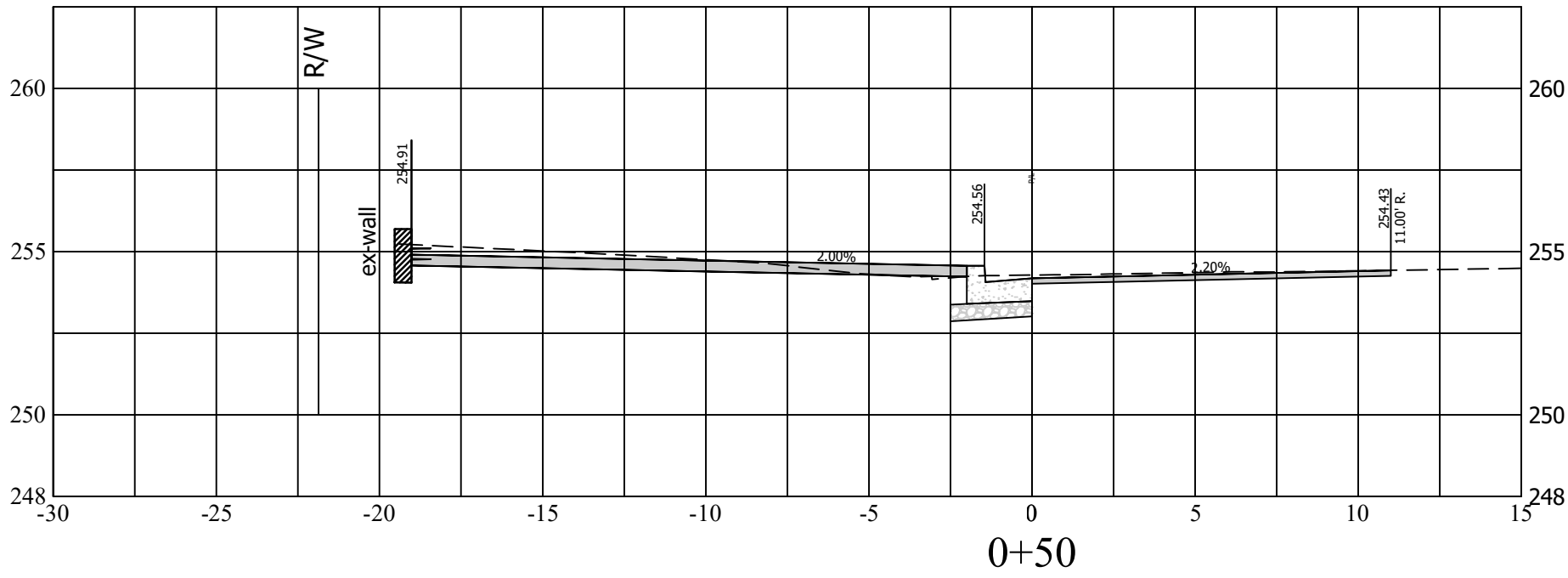
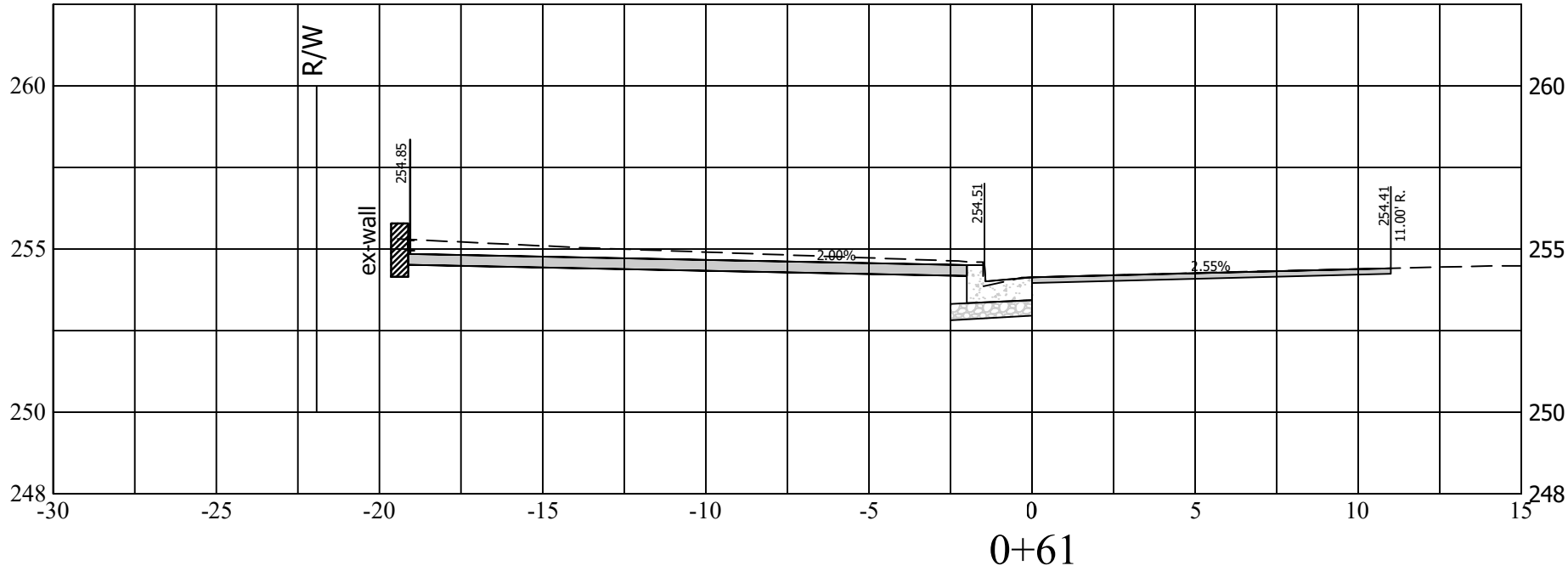
CROSS-SECTIONS

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CHECKED: P. RIGBY

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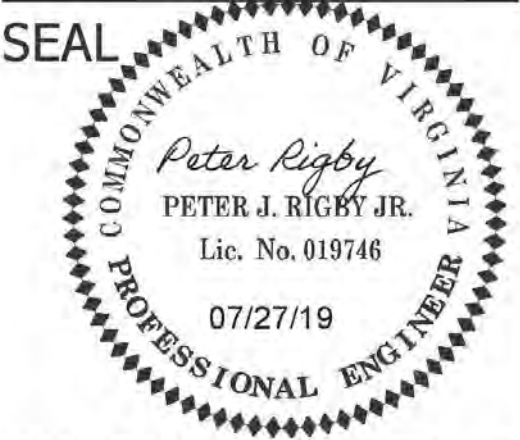


BL EOP CR4



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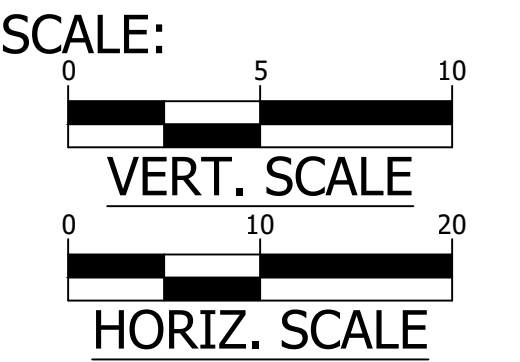


APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER/SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver Danysh</i> PROJECT MANAGER	8.6.2020

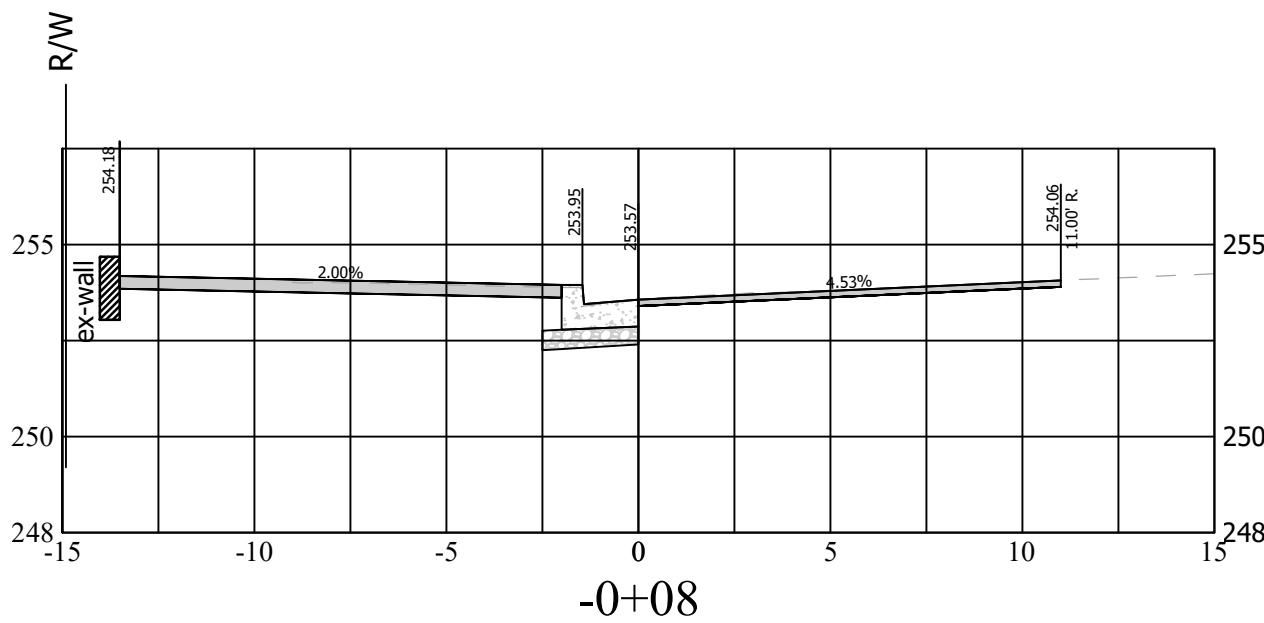
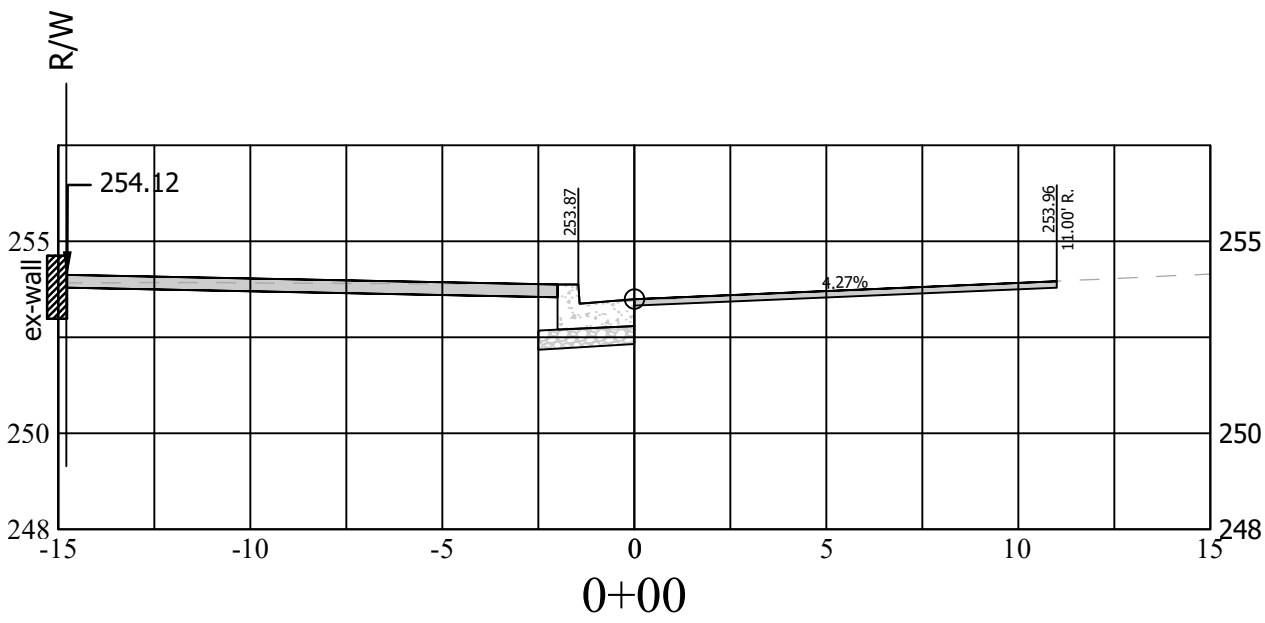
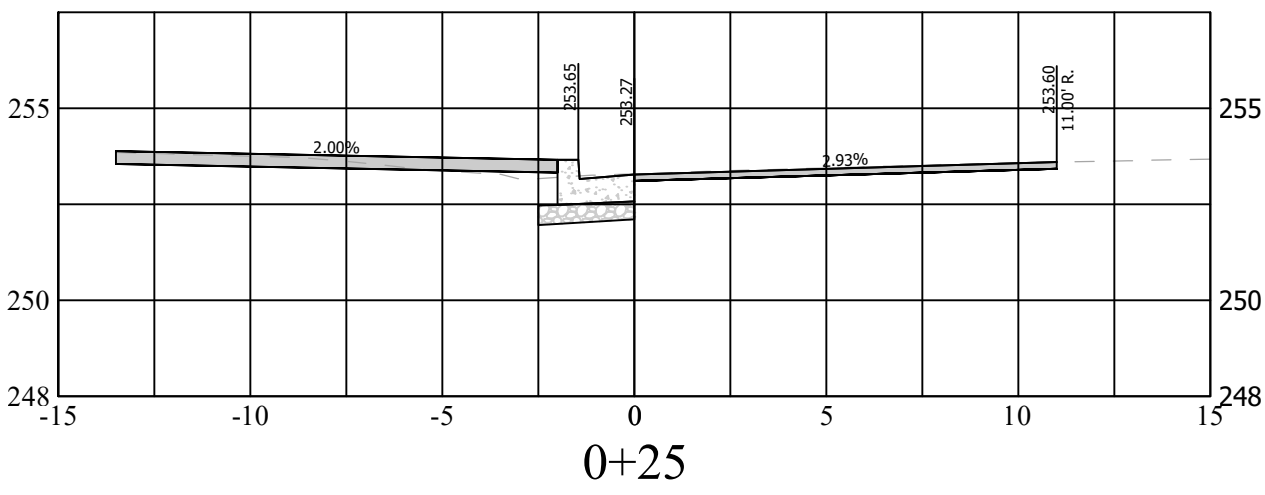
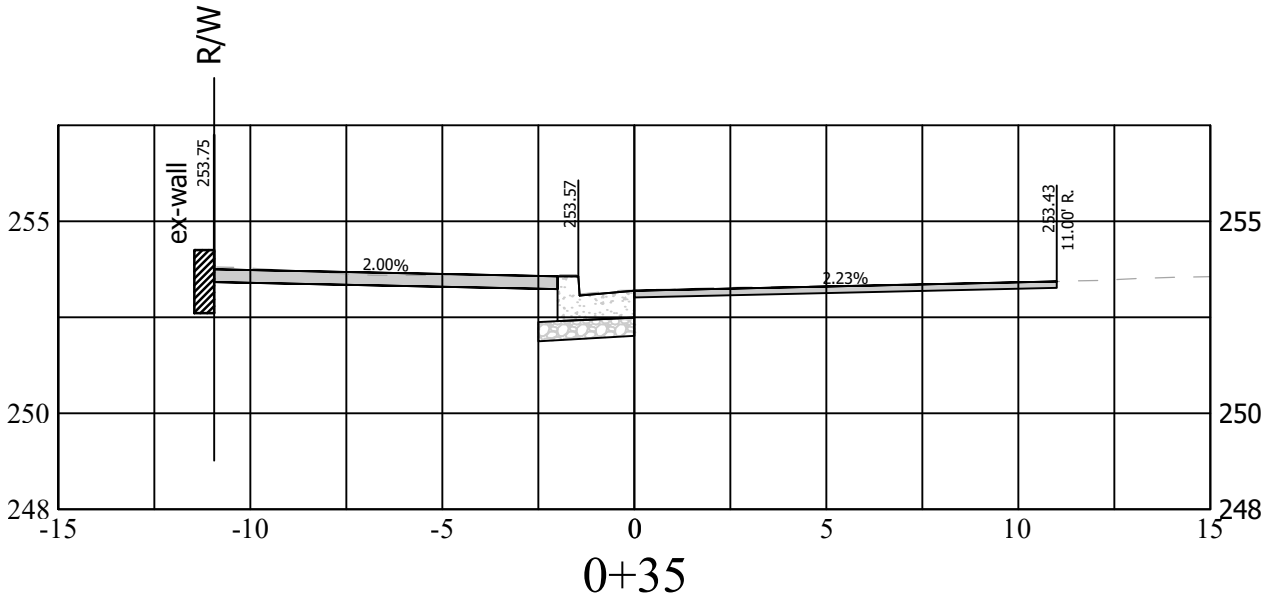
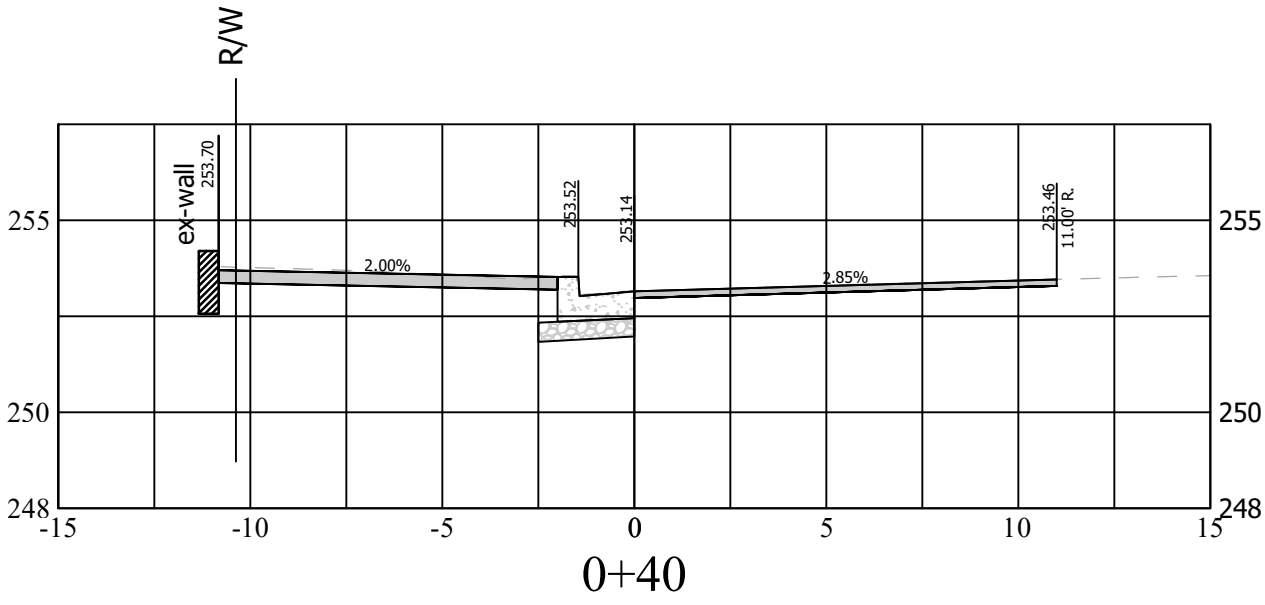
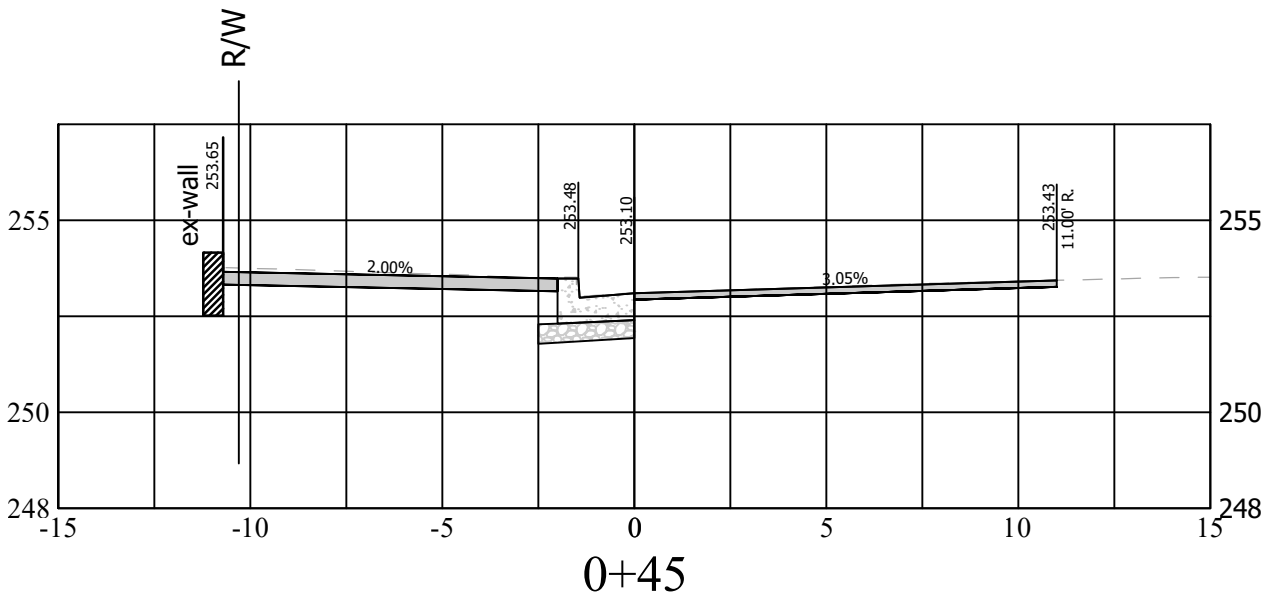
REVISIONS	DATE

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CROSS-SECTIONS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY
PLOTTED: AUGUST 19 2020

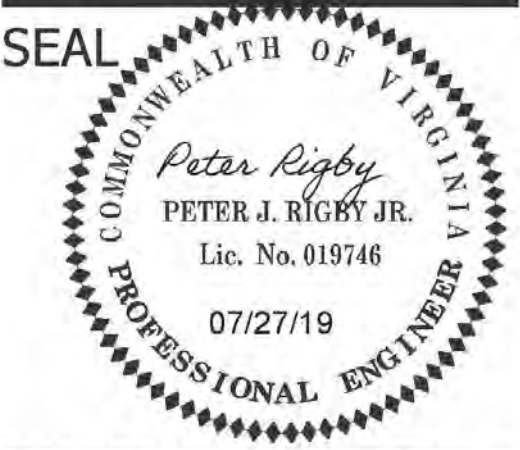


BL EOP CR 5



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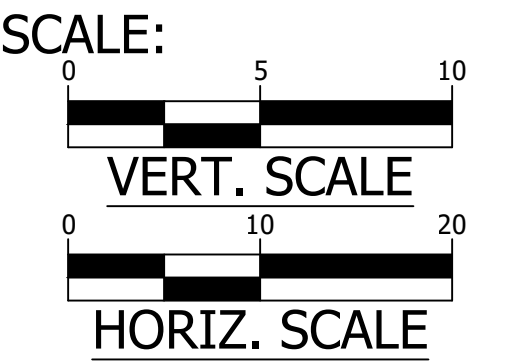
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER/SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver Dymkowski</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

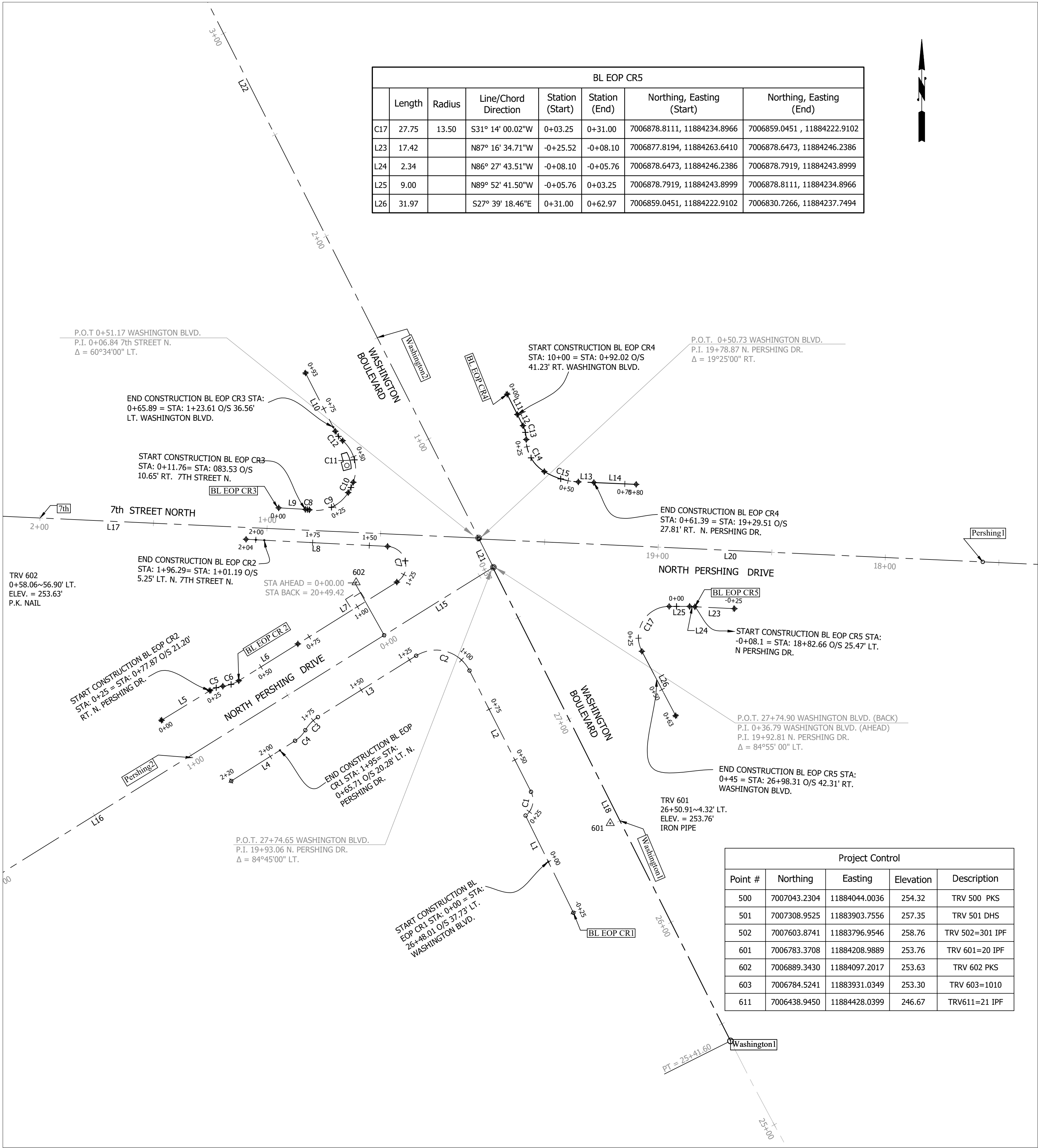
N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.
CROSS-SECTIONS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020



C044.5



BL EOP CR1							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
C1	11.63	8.37	N12° 56' 16.51"E	0+22.66	0+34.29	7006786.7702, 11884171.7346	7006797.2172, 11884174.1345
C2	27.38	16.50	N74° 26' 32.73"W	0+94.11	1+21.49	7006850.5652, 11884147.0719	7006857.0953, 11884123.6165
C3	8.08	16.50	S43° 59' 24.32"W	1+72.44	1+80.52	7006830.1068, 11884080.4037	7006824.3537, 11884074.8499
C4	6.55	13.50	S43° 52' 30.23"W	1+80.52	1+87.07	7006824.3537, 11884074.8499	7006819.6755, 11884070.3519
L1	47.66		N26° 12' 41.02"W	-0+25.00	0+22.66	7006744.0148, 11884192.7834	7006786.7702, 11884171.7346
L2	59.82		N26° 53' 52.89"W	0+34.29	0+94.11	7006797.2172, 11884174.1345	7006850.5652, 11884147.0719
L3	50.95		S58° 00' 47.42"W	1+21.49	1+72.44	7006857.0953, 11884123.6165	7006830.1068, 11884080.4037
L4	33.18		S57° 46' 59.25"W	1+87.07	2+20.25	7006819.6755, 11884070.3519	7006801.9858, 11884042.2795

BL EOP CR 2							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
C5	6.00	13.50	N71° 15' 35.25"E	0+25.00	0+31.00	7006841.7620, 11884032.9358	7006843.6736, 11884038.5704
C6	7.48	16.50	N71° 00' 17.10"E	0+31.00	0+38.48	7006843.6736, 11884038.5704	7006846.0882, 11884045.5835
C7	21.55	8.50	N14° 36' 22.54"W	1+20.45	1+41.99	7006889.5075, 11884115.1046	7006905.2070, 11884111.0133
L5	25.00		N58° 31' 43.71"E	0+00.00	0+25.00	7006828.7103, 11884011.6132	7006841.7620, 11884032.9358
L6	30.63		N58° 00' 47.42"E	0+38.48	0+69.11	7006846.0882, 11884045.5835	7006862.3128, 11884071.5616
L7	51.34		N58° 00' 47.42"E	0+69.11	1+20.45	7006862.3128, 11884071.5616	7006889.5075, 11884115.1046
L8	62.30		N87° 07' 51.35"W	1+41.99	2+04.30	7006905.2070, 11884111.0133	7006908.3256, 11884048.7873

BL EOP CR3							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
C8	1.75	13.50	S83° 07' 03.79"E	0+11.76	0+13.51	7006921.5087, 11884074.8873	7006921.2995, 11884076.6206
C9	19.88	16.50	N66° 03' 53.31"E	0+13.51	0+33.39	7006921.2995, 11884076.6206	7006928.8875, 11884093.7155
C10	5.07	26.50	N26° 03' 27.32"E	0+33.39	0+38.46	7006928.8875, 11884093.7155	7006933.4363, 11884095.9397
C11	20.09	16.50	N14° 18' 19.07"W	0+38.46	0+58.55	7006933.4363, 11884095.9397	7006951.7228, 11884091.2768
C12	5.31	13.50	N37° 54' 55.97"W	0+58.55	0+63.87	7006951.7228, 11884091.2768	7006955.8858, 11884088.0341
L9	11.76		S86° 48' 44.99"E	0+00.00	0+11.76	7006922.1627, 11884063.1444	7006921.5087, 11884074.8873
L10	28.75		N27° 01' 35.05"W	0+63.87	0+92.61	7006955.8858, 11884088.0341	7006981.4926, 11884074.9719

BL EOP CR4							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
C13	6.29	13.50	S13° 18' 05.93"E	0+15.50	0+21.79	7006958.3267, 11884170.5922	7006952.2586, 11884172.0268
C14	16.95	16.50	S29° 22' 33.27"E	0+21.79	0+38.74	7006952.2586, 11884172.0268	7006938.1301, 11884179.9800
C15	15.80	31.50	S73° 10' 25.45"E	0+38.74	0+54.54	7006938.1301, 11884179.9800	7006933.6038, 11884194.9470
L11	10.00		S26° 39' 14.69"E	0+00.00	0+10.00	7006972.1796, 11884163.6389	7006963.2423, 11884168.1249
L12	5.50		S26° 39' 14.69"E	0+10.00	0+15.50	7006963.2423, 11884168.1249	7006958.3267, 11884170.5922
L13	6.85		S87° 32' 40.66"E	0+54.54	0+61.39	7006933.6038, 11884194.9470	7006933.3105, 11884201.7868
L14	18.61		S87° 32' 40.66"E	0+61.39	0+80.00	7006933.3105, 11884201.7868	7006932.5133, 11884220.3797

7th							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
L17	321.26		N87° 22' 39.93"W	0+06.84	3+28.10	7006908.8610, 11884151.0893	7006923.5588, 11883830.1684

Pershing1							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
L19	157.08		N87° 23' 39.93"W	16+00.00	17+57.08	7006891.2449, 11884529.7633	7006898.3858, 11884372.8457
L20	221.79		N87° 23' 39.93"W	17+57.08	19+78.87	7006898.3858, 11884372.8457	7006908.4683, 11884151.2878

Pershing2							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
L15	56.61		S58° 06' 20.07"W	19+92.81	0+00.00	7006896.0269, 11884157.5754	7006866.1167, 11884109.5123
L16	300.00		S58° 06' 20.07"W	0+00.00	3+00.00	7006866.1167, 11884109.5123	7006707.6099, 11883854.8053

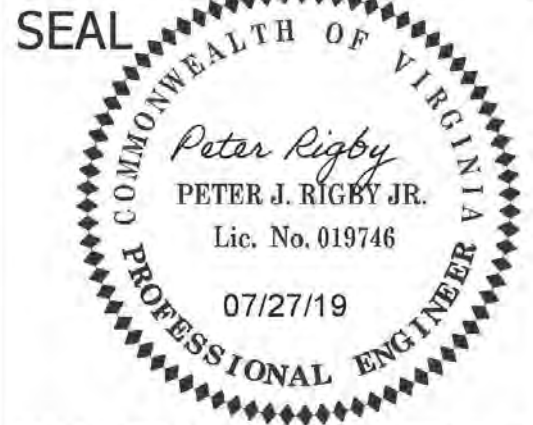
Washington1							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
C16	238.17	1300.91	N31° 53' 21.31"W	23+03.43	25+41.60	7006485.6617, 11884387.5148	7006687.6021, 11884261.8705
L18	233.04		N26° 38' 39.93"W	25+41.60	27+74.64	7006687.6021, 11884261.8705	7006895.8948, 11884157.3632

Washington2							
	Length	Radius	Line/Chord Direction	Station (Start)	Station (End)	Northing, Easting (Start)	Northing, Easting (End)
L21	13.94		N26° 48' 39.93"W	0+36.79	0+50.73	7006896.0269, 11884157.5754	7006908.4683, 11884151.2878
L22	449.27		N26° 48' 39.93"W	0+50.73	5+00.00	7006908.4683, 11884151.2878	7007309.4411, 11883948.6444



DEPARTMENT OF
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APPROVALS DATE

Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Taktak 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
Shawn 08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 8/6/20
TRANSPORTATION DIRECTOR
Oliver J. Sanchez 8.6.2020
PROJECT MANAGER

REVISIONS DATE

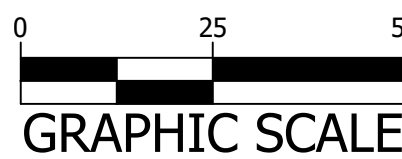
N. PERSHING DR. & WASHINGTON BLVD.
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

GEOMETRIC CONTROL PLAN

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020

SCALE:



C045.1

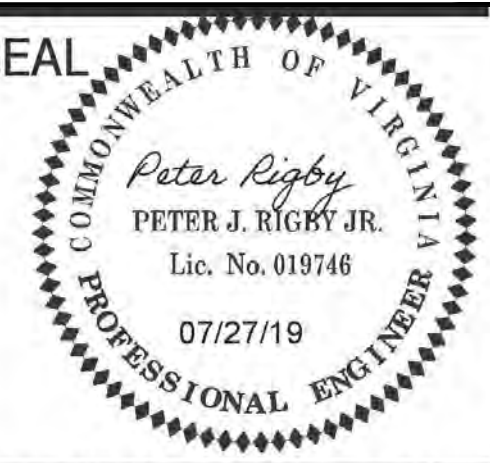


NOT FOR CONSTRUCTION
THIS SHEET FOR CALCULATION PURPOSES ONLY

ARLINGTON
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER/SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver Dargatzis</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

N. PERSHING DR. @ WASHINGTON BLVD.

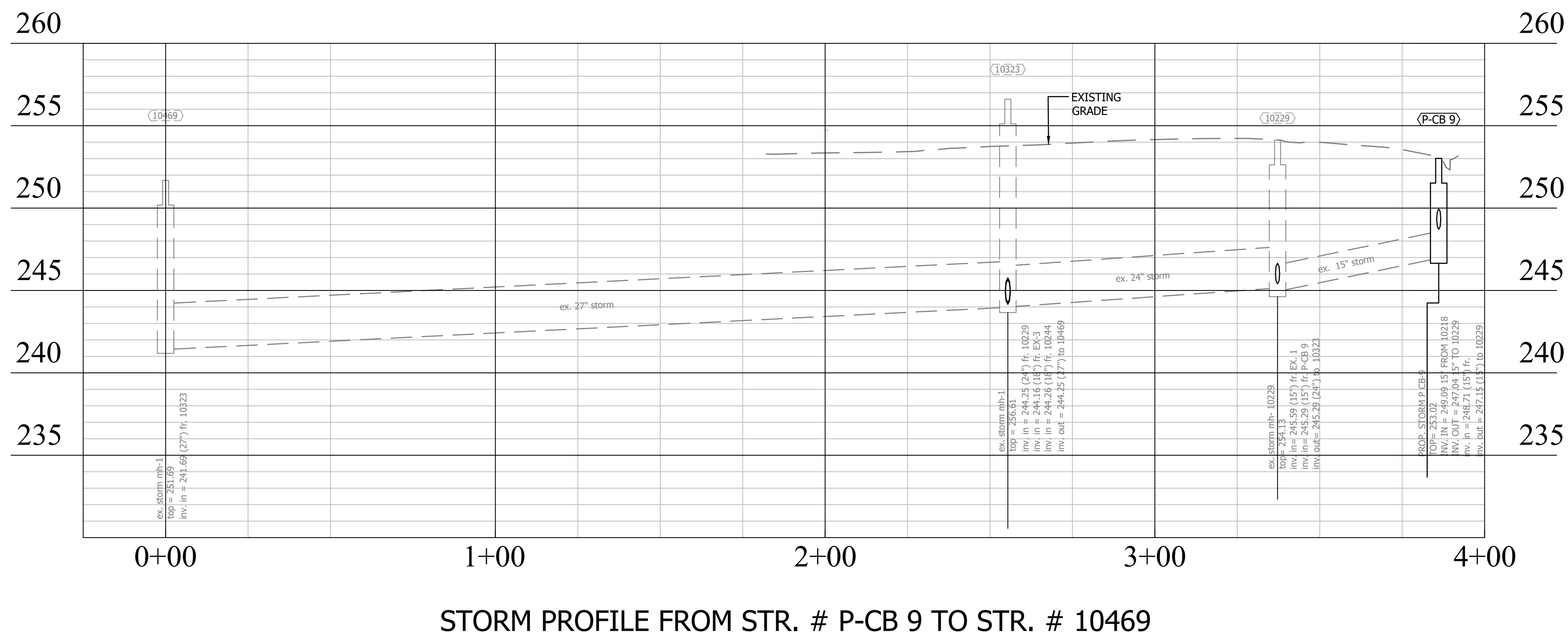
STORM SEWER DRAINAGE DIVIDES

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020

SCALE:

0 25 50
HORIZ. SCALE



STORM SEWER INLET COMPUTATIONS																																	
Project: DC 15 STORM				IMPROVEMENT CONDITIONS																													
INLET			STATION (FROM N. KENMORE ST.)	DRAINAGE AREA	C	C x A	C x A W	INTENSITY	Q INCR	Q CARRY OVER	Q TOTAL	S GUTTER	Sx CROSS SLOPE	T SPREAD	W GUTTER PAN	W/T WIDTH/SPREAD	Sw G.P. SLOPE	Sw/Sx	Eo GUTTER FLOW RATIO	a Total Depression	S'w	Se Equivalent cross slope	Lt Req. for 100%	P PERIMETER/GRATE	L/Lt	d Depth of flow	E Inlet Efficiency	h Actual height of curb opening	Q INT	d/H	Qb CARRY OVER	T SPREAD AT SAG	REMARKS
NUMBER	TYPE	LENGTH																															
P-CB 9	DI-3B	6.0	3+86	0.15	0.90	0.14	0.14	4.00	0.54	0.00	0.54	0.0100	0.0200	4.33	1.50	0.35	0.0833	4.17	0.84	2.64	0.15	0.14	4.65				1.00	0.54		0.00			
EX 1	DI-3C	8	0+0	0.05	0.90	0.05	0.05	6.79	0.31	0.00	0.31	0.01	0.02	4.69	1.5		0.01	0.50						11.60		0.07		0.46		0.16		3.62	
				0.03	0.90	0.03	0.03	6.79	0.18	0.00	0.18			3.94																			
P-CB 5	DI-3B	6.0	0+0	0.11	0.90	0.10	0.10	4.00	0.40	0.00	0.40	0.0100	0.0200	3.52	1.50	0.43	0.0833	4.17	0.91	2.64	0.15	0.15	3.91		1.54		1.00		0.40		0.00		
EX-3	DI-3B	5.0		0.06	0.90	0.05	0.05	4.00	0.22		0.22	0.0200	0.0200	1.43	1.50	1.05	0.0833	4.17	1.00	2.64	0.15	0.17	3.55		1.41		1.00		0.22		0.00		
10232	DI-3B	5.0		0.12	0.90	0.11	0.11	4.00	0.43		0.43	0.0200	0.0200	2.86	1.50	0.52	0.0833	4.17	0.96	2.64	0.15	0.16	4.86		1.03		1.00		0.43		0.00		

STORM SEWER DESIGN COMPUTATIONS

Project: DC15 STORM COMP

IMPROVEMENT CONDITIONS																	
From Point	To Point	Drainage Area	C Factor	C x A		Inlet Time Min.	Rain Fall In/Hr	Runoff Q C.F.S.	Invert Elev.		Length FT.	Slope %	Dia. IN.	Capacity Q C.F.S.	VEL. F.P.S.	Flow Time MIN.	Remarks
				Increment	Cumm.				Upper End	Lower End							
P-CB 9	10229	0.15	0.9	0.14	0.14	5.00	6.79	0.92	247.04	245.29	49.0	3.57%	15	12.24	5.86	0.14	
EX 1	10229	0.34	0.9	0.31	0.31	5.00	6.79	2.08	246.84	245.59	14.1	8.88%	15	19.30	10.27	0.02	
10229	10323			0.00	0.44	5.00	6.79	2.99	245.26	244.25	81.8	1.23%	24	25.20	5.39	0.25	
*																	
P-CB 5	P-MH 6	0.11	0.9	0.10	0.10	5.00	6.79	0.67	245.79	245.60	11.8	1.60%	15	8.21	4.03	0.05	
P-MH 6	10323			0.00	0.13	5.00	6.79	0.90	245.60	244.25	81.7	1.65%	18	13.54	4.35	0.31	
10323	10469			0.00	0.63	5.00	6.79	4.27	244.25	241.69	255.4	1.00%	27	31.09	5.48	0.78	
10281	P-MH 6	0.04	0.9	0.03	0.03	5.00	6.79	0.23	250.83	245.60	56.4	9.27%	15	19.72	5.42	0.17	
*																	
EX-3	10323	0.06	0.9	0.05	0.05	5.00	6.79	0.37	247.22	244.25	64.7	4.59%	18	22.58	4.75	0.23	
*																	
10232	10244	0.12	0.9	0.11	0.11	5.00	6.79	0.73	247.47	247.06	15.0	2.73%	18	17.41	4.88	0.05	
10244	10323			0.00	0.11	5.00	6.79	0.73	247.06	244.26	66.0	4.24%	18	21.69	5.69	0.19	

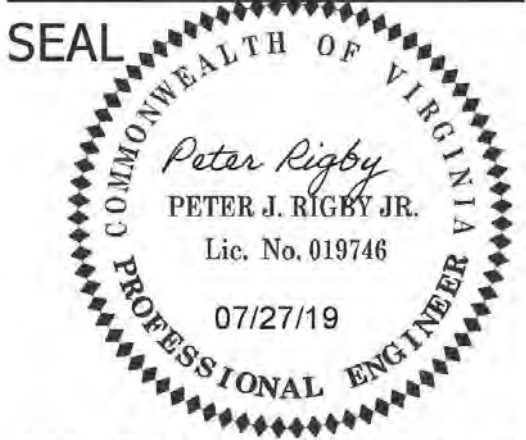
HYDRAULIC GRADE LINE COMPUTATIONS

Project: DC 15 STORM								IMPROVEMENT CONDITIONS														
INLET STATION	UPSTREAM INLET	Outlet Water Surface Elev. (2)	Do in (3)	Qo cfs (4)	Lo ft (5)	Sfo % (6)	Hf ft (7)	JUNCTION LOSS								Ht (16)	1.3 Ht (17)	0.5 Ht (18)	FINAL H (19)	Inlet Water Surface Elev. (20)	RIM ELEV. (21)	
								Vo (8)	Ho (9)	Qi (10)	Vi (11)	QiVi (12)	2 Vi /2g (13)	Hi (14)	Angle (15)							Hd (15)
10469																			Starting Elevation	243.50		
10323		243.50	27.00	4.27	255.39	0.02	0.05	5.48	0.12					0.16		0.11	0.39	0.00	0.19	0.24	243.74	253.65
	10229		24.00							2.99	5.39	16.15	0.45	0.16	5.00	0.02						
	P-MH 6		18.00							0.90	4.35	3.94	0.29	0.10	40.00	0.11						
P-MH 6		245.85	18.00	0.90	81.70	0.01	0.01	4.35	0.07					0.16		0.18	0.41	0.00	0.21	0.21	246.06	253.65
	P-CB 5		15.00							0.67	4.03	2.71	0.25	0.09	90.00	0.18						
	10281		15.00							0.23	5.42	1.26	0.46	0.16	20.00	0.07						
P-CB 5		246.60	15.00	0.67	11.84	0.01	0.00	4.03	0.06					0.00		0.00	0.06	0.08	0.04	0.04	246.64	253.65
	0									0.67	0.00	0.00	0.00		0.00							
10281		246.60	15.00	0.23	56.42	0.00	0.00	5.42	0.11					0.00		0.00	0.11	0.15	0.07	0.07	246.67	254.22
	0									0.23	0.00	0.00	0.00		0.00							
10229		245.85	24.00	2.99	81.81	0.02	0.01	5.39	0.11					0.57		0.30	0.99	0.00	0.49	0.51	246.36	254.13
	P-CB 9		15.00							0.92	5.86	5.37	0.53	0.19	63.00	0.30						
	EX 1		15.00							2.08	10.27	21.35	1.64	0.57	0.00	0.00						
P-CB 9		246.59	15.00	0.92	48.99	0.02	0.01	5.86	0.13					0.00		0.00	0.13	0.17	0.09	0.10	246.69	253.02
	0									0.92	0.00	0.00	0.00		0.00							
EX 1		246.59	15.00	2.08	14.08	0.10	0.01	10.27	0.41					0.00		0.00	0.41	0.53	0.27	0.28	246.87	254.14
	0									2.08	0.00	0.00	0.00		0.00							
10323		243.50	27.00	4.27	255.39	0.02	0.05	5.48	0.12					0.16		0.00	0.27	0.00	0.14	0.19	243.69	253.65
	10229		24.00							2.99	5.39	16.15	0.45	0.16		0.00						
	P-MH 6		18.00							0.90	4.35	3.94	0.29	0.10		0.00						
	EX-3		18.00							0.37	4.75	1.74	0.35	0.12		0.00						
EX-3		245.85	18.00	0.37	64.65	0.00	0.00	4.75	0.09					0.00		0.00	0.09	0.11	0.06	0.06	245.91	253.86
	0									0.37	0.00	0.00	0.00		0.00							
10244		245.85	18.00	0.73	66.00	0.00	0.00	5.69	0.13					0.13		0.00	0.26	0.33	0.17	0.17	246.02	254.49
	10232		18.00							0.73	4.88	3.58	0.37		0.00							
10232		248.26	18.00	0.73	15.00	0.00	0.00	4.88	0.09					0.00		0.00	0.09	0.12	0.06	0.06	248.32	254.66
	0									0.73	0.00	0.00	0.00		0.00							



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APPROVALS DATE
Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Takak 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
Oliver 08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 8/6/20
TRANSPORTATION DIRECTOR
Oliver 8.6.2020
PROJECT MANAGER

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

N. PERSHING DR. @ WASHINGTON BLVD.

STORM COMPUTATIONS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020


SCALE:

N/A

C075.1



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A circular professional engineer seal for the Commonwealth of Virginia. The outer ring contains the text "COMMONWEALTH OF VIRGINIA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by a decorative border of small triangles. In the center, the name "Peter Richey" is written in a cursive script, followed by "PETER J. RICHEY JR." in a sans-serif font. Below the name is the license number "Lic. No. 019746" and the expiration date "07/27/19".

<i>Amy Pflaum</i>	8/5/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis W. Leach</i>	8/6/20
TRANSPORTATION DIRECTOR	
<i>Shira Dargatzis</i>	8.6.2020
PROJECT MANAGER	

N. PERSHING DR. @ WASHINGTON BLVD.

LANDSCAPE PLAN

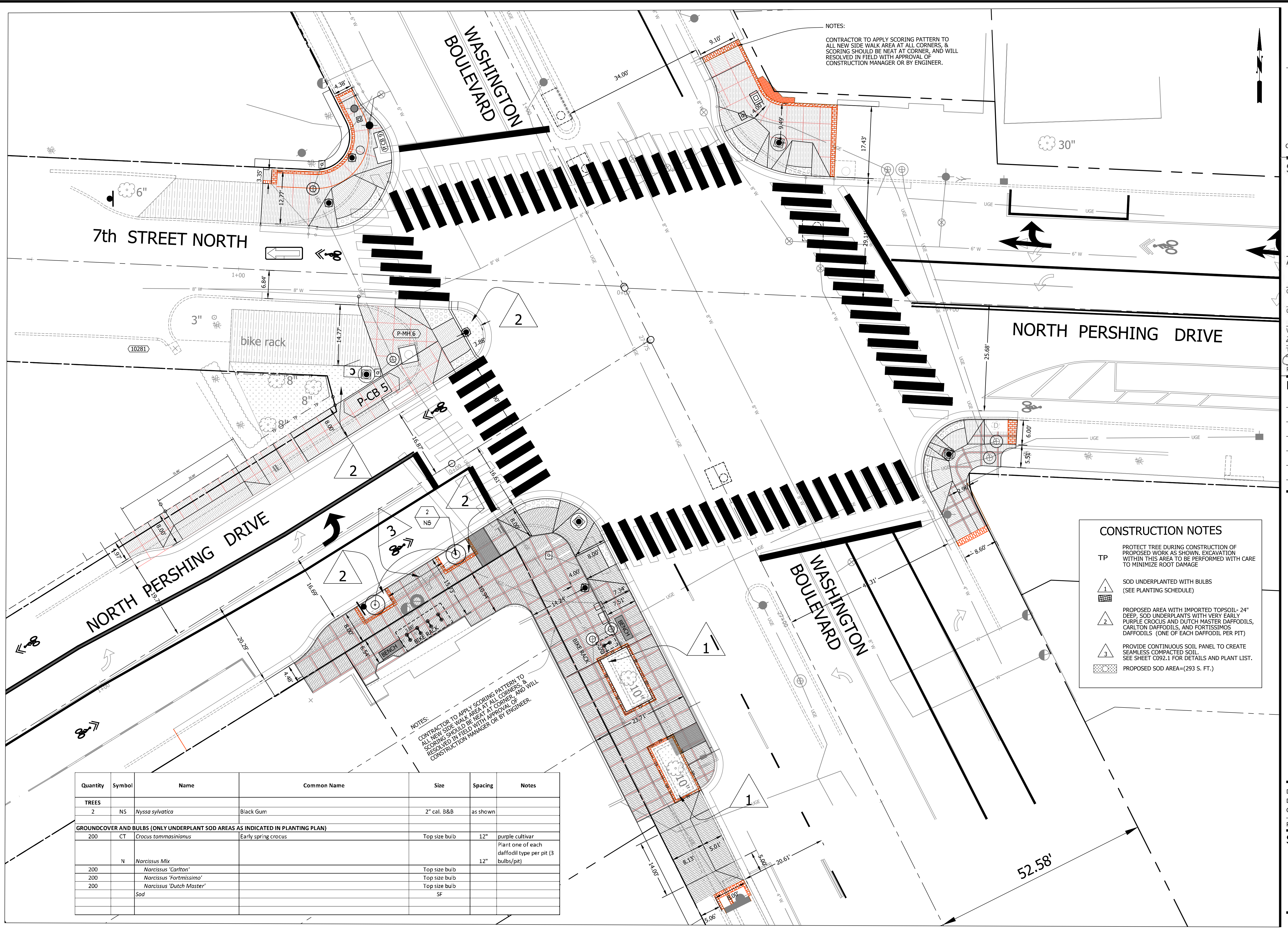
PLOTTED: AUGUST 19 2020

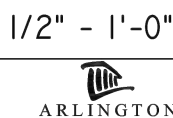


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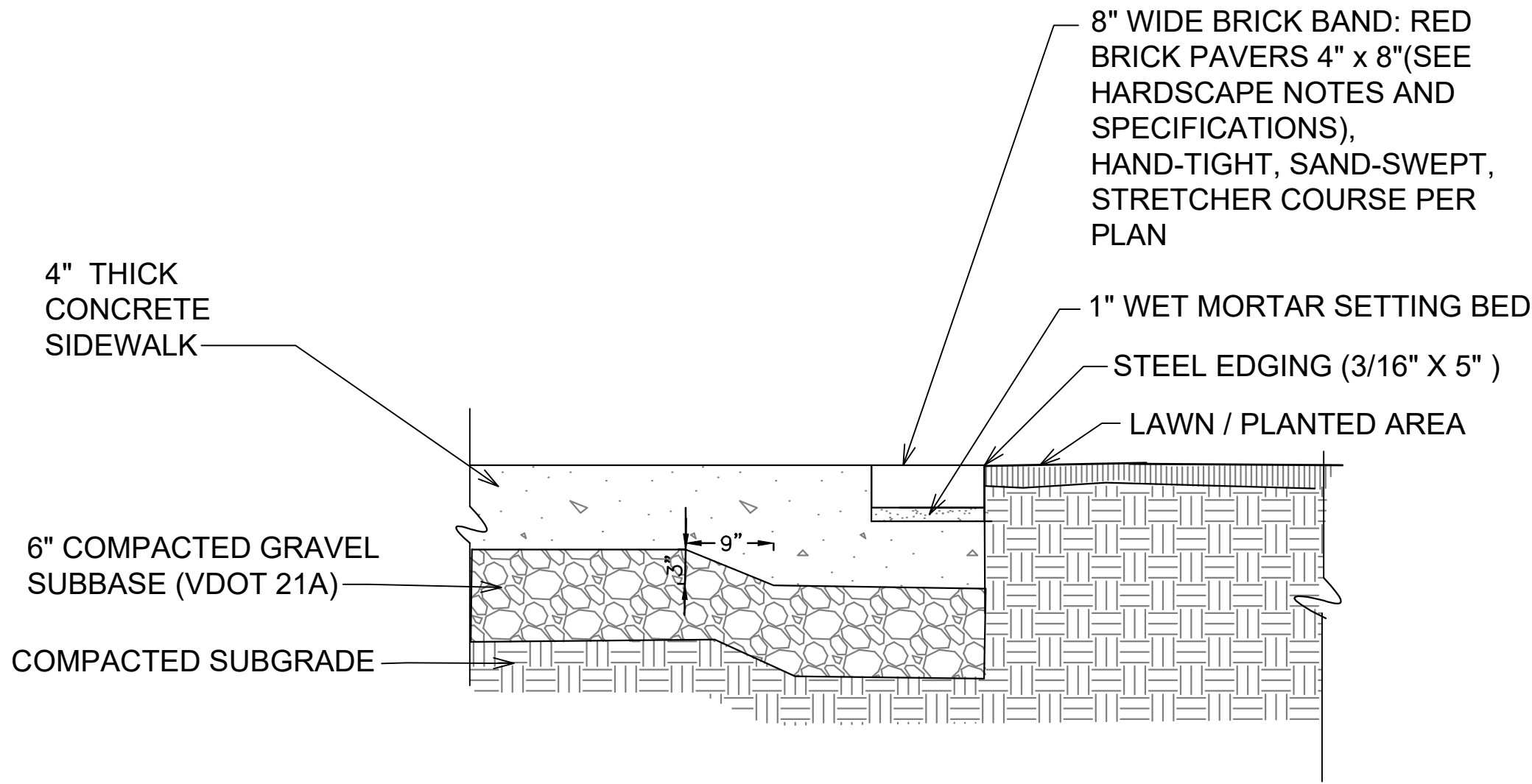
GRAPHIC SCALE

N. PERSHING DR. & WASHINGTON BLVD. DC19

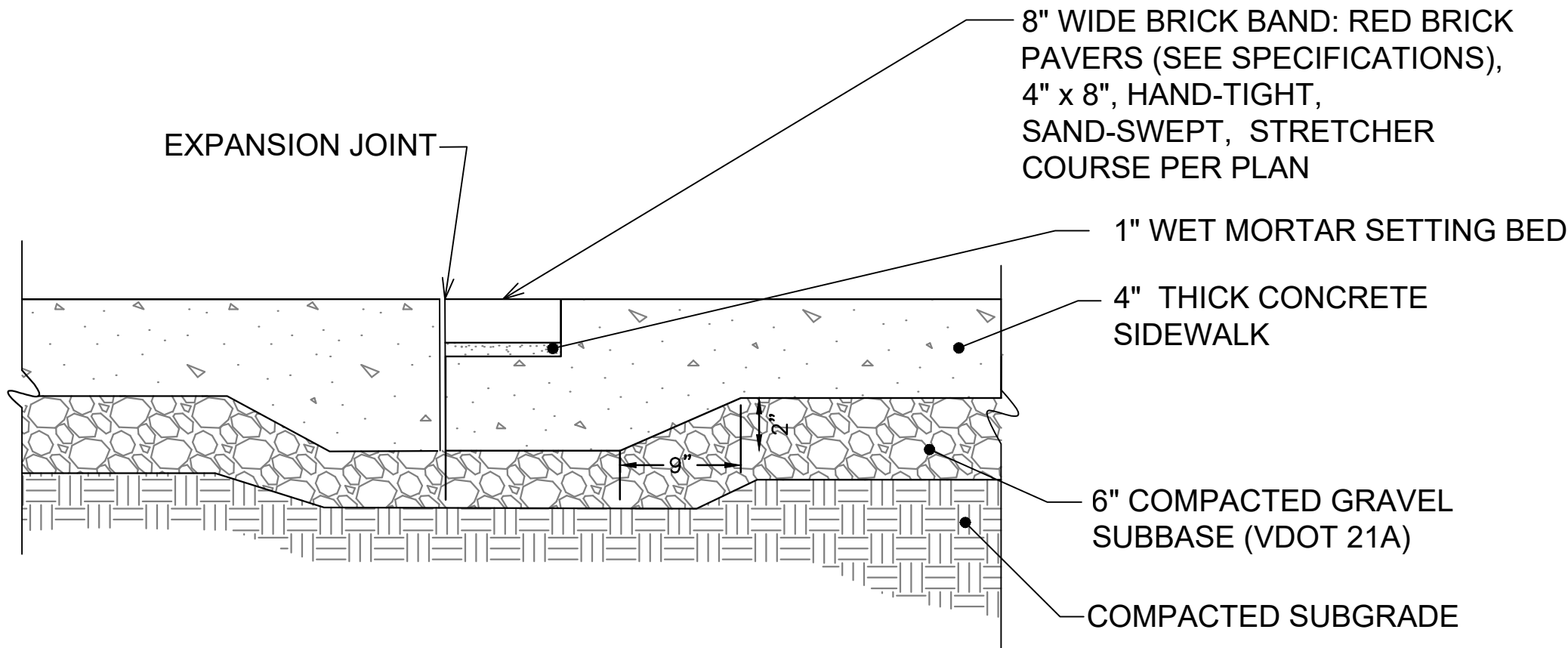




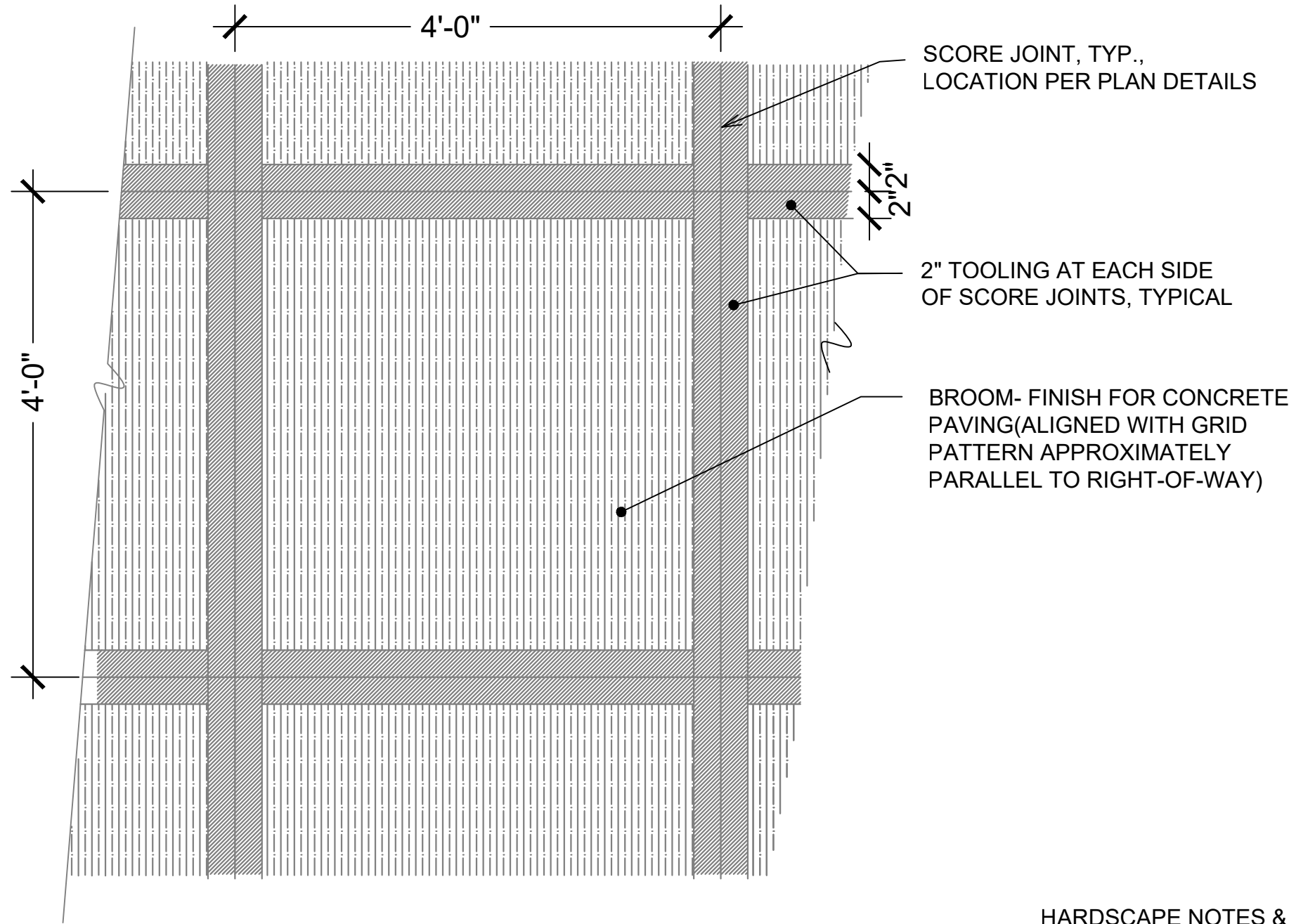
N. PERSHING DR. & WASHINGTON BLVD. DC19



BRICK BAND @ EDGE OF CONCRETE
SIDEWALK: TYPICAL SECTION
N.T.S.



BRICK BAND @ MIDDLE OF CONCRETE
SIDEWALK: TYPICAL SECTION
N.T.S.



TYPICAL TOOLING DETAIL FOR
CONCRETE SCORE JOINT
N.T.S.

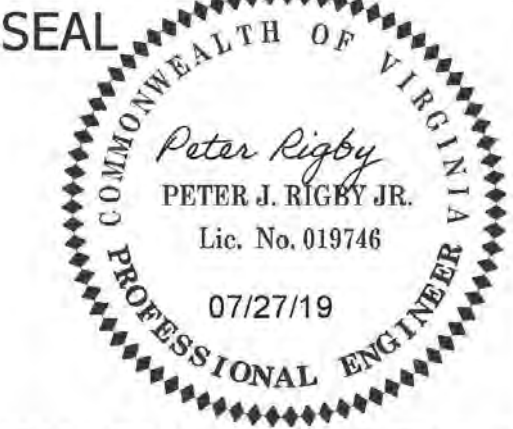
HARDSCAPE NOTES & SPECIFICATIONS:

1. EXPANSION JOINTS SHALL BE INSTALLED IN SIDEWALK A MINIMUM OF 30' O.C.. LOCATION OF EXPANSION JOINTS SHALL BE ADJUSTED WHERE POSSIBLE TO ALIGN WITH BRICK BAND, OR CHANGE IN MATERIALS. EXPANSION JOINTS SHALL BE PROVIDED AT PERIMETER OF PROPOSED AND EXISTING PRESERVED STRUCTURES.
2. BRICK PAVERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-216. PAVER BRICKS SHALL BE 4"x8"x2 3/8", CHAMFERED EDGE. BRICK SHALL BE BELDAM BRICK COMPANY REGIMENTAL RED PAVER A 04-11, OR EQUAL APPROVED BY OWNERS REPRESENTATIVE.
SUPPLIER: POTOMAC VALLEY BRICK www.pvbrick.com 410-682-6700



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<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	8/5/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

N. PERSHING DR. @ WASHINGTON BLVD.

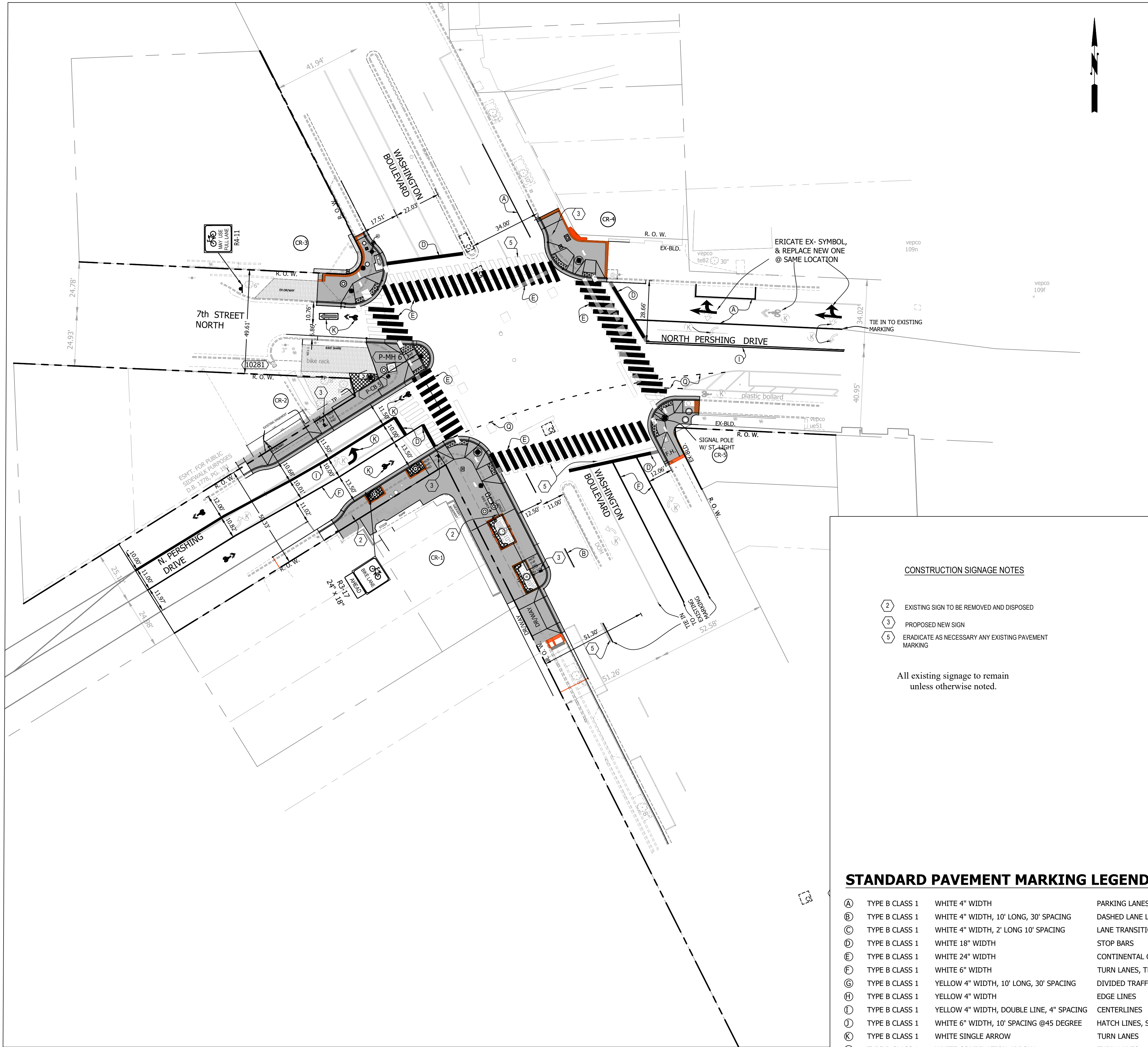
LANDSCAPE NOTES AND DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020

SCALE:

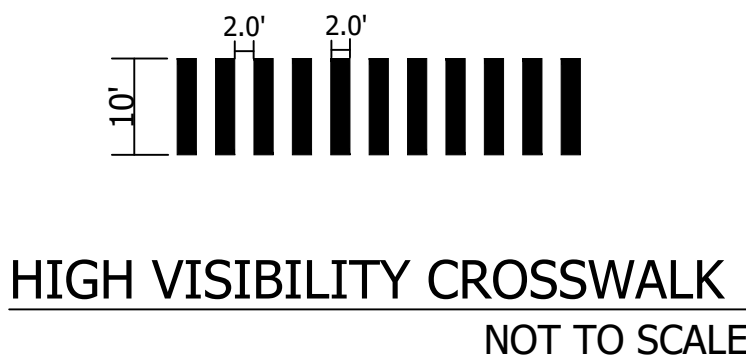
AS SHOWN



CONSTRUCTION SIGNAGE NOTES

- 2 EXISTING SIGN TO BE REMOVED AND DISPOSED
- 3 PROPOSED NEW SIGN
- 5 ERADICATE AS NECESSARY ANY EXISTING PAVEMENT MARKING

All existing signage to remain unless otherwise noted.



STRIPING LEGEND

- (A) EXISTING STRIPING
- (A) PROPOSED STRIPING

LEGEND

- | | |
|----------|----------|
| EXISTING | PROPOSED |
| | |
| | |
| | |
| | |

SIGN AND PAVEMENT MARKING NOTES:

- STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING .
- CONTACT DES-TRANSPORTATION ENGINEERING & OPERATIONS CONSTRUCTION MANAGEMENT SPECIALIST OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
- PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
 - A. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - B. ARLINGTON COUNTY MARKING STANDARDS.
- ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
- STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
- CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
- LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
- ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
- SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
- BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.
- EDGE LINES ARE ONLY REQUIRED WHERE SHOWN ON THE PLANS.
- FOR DETAILS SEE ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATION, DETAILS MK-1 TO MK-12

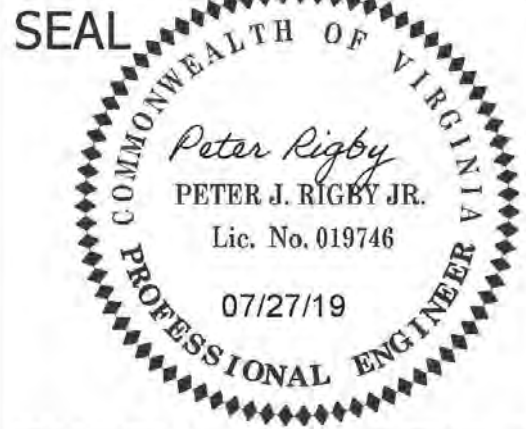
STANDARD PAVEMENT MARKING LEGEND

- | | | | |
|-----|----------------|--|---|
| (A) | TYPE B CLASS 1 | WHITE 4" WIDTH | PARKING LANES, EDGE LINES, LANE LINES |
| (B) | TYPE B CLASS 1 | WHITE 4" WIDTH, 10' LONG, 30' SPACING | DASHED LANE LINES |
| (C) | TYPE B CLASS 1 | WHITE 4" WIDTH, 2' LONG 10' SPACING | LANE TRANSITIONS, TURN LANE SKIPS |
| (D) | TYPE B CLASS 1 | WHITE 18" WIDTH | STOP BARS |
| (E) | TYPE B CLASS 1 | WHITE 24" WIDTH | CONTINENTAL CROSS WALKS |
| (F) | TYPE B CLASS 1 | WHITE 6" WIDTH | TURN LANES, TRANSVERSE CROSS WALKS, BIKE LANES |
| (G) | TYPE B CLASS 1 | YELLOW 4" WIDTH, 10' LONG, 30' SPACING | DIVIDED TRAFFIC, TWO WAY TURN LANES |
| (H) | TYPE B CLASS 1 | YELLOW 4" WIDTH | EDGE LINES |
| (I) | TYPE B CLASS 1 | YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING | CENTERLINES |
| (J) | TYPE B CLASS 1 | WHITE 6" WIDTH, 10' SPACING @45 DEGREE | HATCH LINES, SAFETY ZONES |
| (K) | TYPE B CLASS 1 | WHITE SINGLE ARROW | TURN LANES |
| (L) | TYPE B CLASS 1 | WHITE COMBINATION ARROW | TURN LANES |
| (M) | TYPE B CLASS 1 | WHITE 8' LETTERS | PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY, etc.) |
| (N) | TYPE B CLASS 1 | WHITE 6" WIDTH, 2' LONG, 10' SPACING | LANE TRANSITIONS, TURN LANE SKIPS |
| (O) | TYPE B CLASS 1 | WHITE 12" WIDTH, 20' SPACING @45 DEGREE | GORE MARKINGS |
| (P) | TYPE B CLASS 1 | YELLOW 8" WIDTH @45 DEGREE | GORE MARKINGS |
| (Q) | TYPE B CLASS 1 | WHITE 6" WIDTH, 2' LONG, 4' SPACING | LANE TRANSITIONS |
| (R) | TYPE B CLASS 1 | WHITE 4" WIDTH, DOUBLE LINE, 4' SPACING | CURB EXTENSIONS |
| (S) | TYPE B CLASS 1 | WHITE 24" WIDTH | VDOT - STOP BARS |



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APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	8/5/2020
Kamal Taktak CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
Dennis M. Leach WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
Oliver J. Jorgensen TRANSPORTATION DIRECTOR	8/6/20
PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.

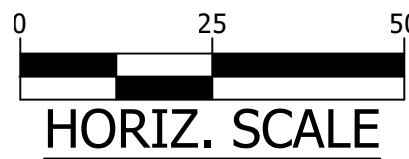
DC19
N. PERSHING DR. @ WASHINGTON BLVD.

SIGN AND MARKING PLAN

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020

SCALE:



C101.1



MAINTENANCE OF TRANSPORTATION PLAN

ZONE TABLE			
ZONE#	TTC#	COMMENTS	DURATION
ZONE A	TTC-23.2	LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATIONS OUTSIDE LANE CLOSURE OPERATION ON A FOUR LANE ROADWAY	1 WEEK - 1 MONTH
	TTC-36.2		
	TTC-16.2		
ZONE B	TTC-28.2	LANE CLOSURE OPERATION IN AN INTERSECTION CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATIONS OUTSIDE LANE CLOSURE OPERATION ON A FOUR LANE ROADWAY	1 WEEK - 1 MONTH
	TTC-36.2		
	TTC-16.2		
ZONE C	TTC-23.2	LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATIONS	1 WEEK - 1 MONTH
	TTC-36.2		
ZONE D	TTC-23.2	LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATIONS	LESS THAN ONE WEEK
	TTC-36.2		
ZONE E	TTC-26.2	LANE CLOSURE OPERATION- NEAR SIDE OF AN INTERSECTION SHOULDER OPERATION WITH MINOR ENCROACHMENTS OUTSIDE LANE CLOSURE OPERATION ON A FOUR LANE ROADWAY	1 WEEK - 1 MONTH
	TTC - 5.2		
	TTC-16.2		
NOTE: THE DURATIONS SHOWN WERE DEVELOPED FOR PLANNING AND ESTIMATION PURPOSES ONLY. THE DURATIONS IN NO WAY ALTER THE CONTRACT TIME FOR COMPLETION, OR INFRINGES ON THE CONTRACTORS MEANS AND METHODS. THE CONTRACTOR'S SUBMITTED SCHEDULE SUPERSEDES THE ESTIMATED DURATIONS SHOWN.			

NOTES:

- THE FOLLOWING ZONES CAN NOT BE BUILT AT THE SAME TIME :
1: B, AND E
2: A, AND E
3: C, AND D
2. ZONE A, B, C, AND D SHOULD BE FURNISHED WITH (R9-11) SIGN TO ADDRESS THE SIDEWALK CLOSING.
3. WARNING SIGN SPACING : 100'
CHANNELIZATION DEVICES SPACING FOR TRANSITION AREAS = 20'
- TEMPORARY SIGNS AND BARRICADES SHOULD NOT BE PLACED WHERE THEY WILL OBSTRUCT PEDESTRIAN PASSAGE, EXCEPT WHEN SIGN IS INTENDED TO CLOSE THE SIDEWALK SECTION.

CONSTRUCTION NOTES

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

MOT NOTES:

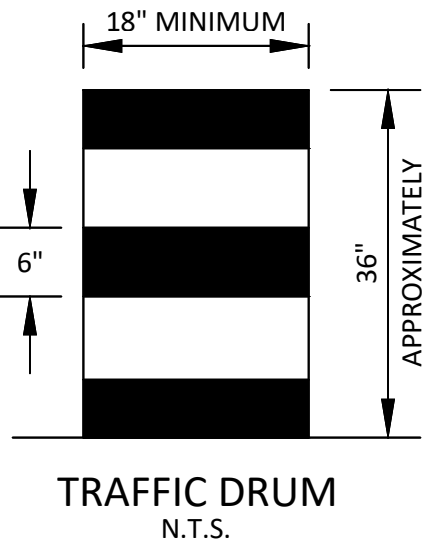
- PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT OF WAY PERMIT. CONTACT DES-PERMITTING SECTION, 703-228-4798, AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- ALL TEMPORARY BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
- THE CONTRACTOR SHALL MAINTAIN ADA ACCESSIBLE PARKING SPACES AT ALL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

PEDESTRIAN NOTE:

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

LEGEND:

- ARROW PANEL
- ARROW PANEL ON TRAILER
- AREA UNDER CONSTRUCTION
- AREA CONSTRUCTED IN PREVIOUS PHASE
- SUB-PHASE OF AREA UNDER CONSTRUCTION
- TRAFFIC FLOW
- TRAFFIC DRUM
- 2" X 36" TUBULAR MARKERS
- ARROW PANEL ON TRAILER
- SIGN
- TYPE III BARRICADE
- FLAGGER



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Peter Rigby
PETER J. RIGBY JR.
Lic. No. 019746
07/27/19
PROFESSIONAL ENGINEER

APPROVALS DATE
Amy Pflaum 8/5/2020
QUALITY CONTROL ENGINEER
Kamal Taktak 8.6.20
CONSTRUCTION MANAGEMENT SUPERVISOR
Dennis M. Leach 08.05.2020
WATER, SEWER, STREETS BUREAU CHIEF
TRANSPORTATION DIRECTOR
Oliver J. Jorgensen 8.6.2020
PROJECT MANAGER

REVISIONS DATE

Zone E, Zone A, phases affecting Zone E, Zone A, location for a temporary crossing per TTC 36.2

N. PERSHING DR. & WASHINGTON BLVD. DC19
N. PERSHING DR. @ WASHINGTON BLVD.

MAINTENANCE OF TRAFFIC PLAN

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY
PLOTTED: AUGUST 19 2020

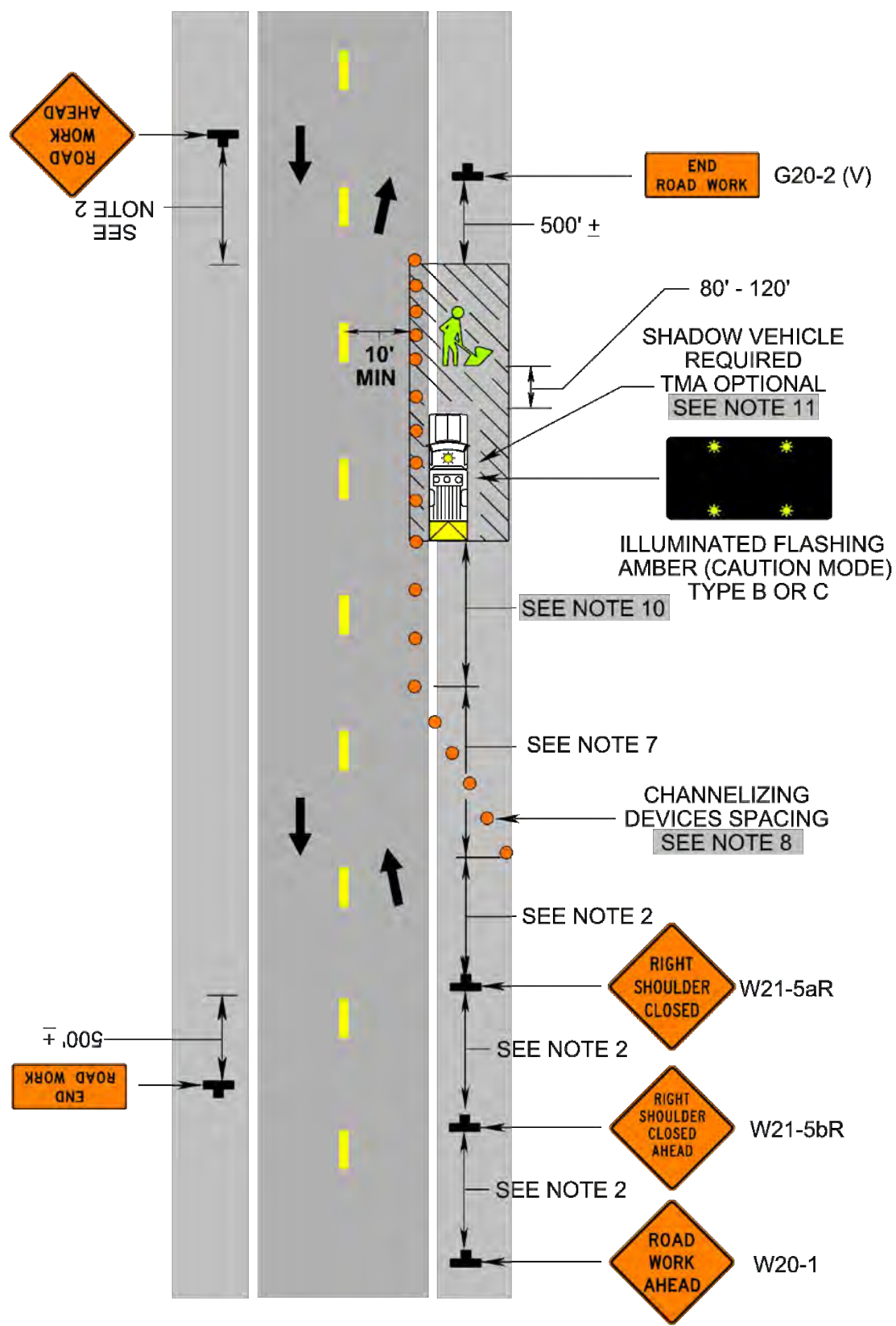
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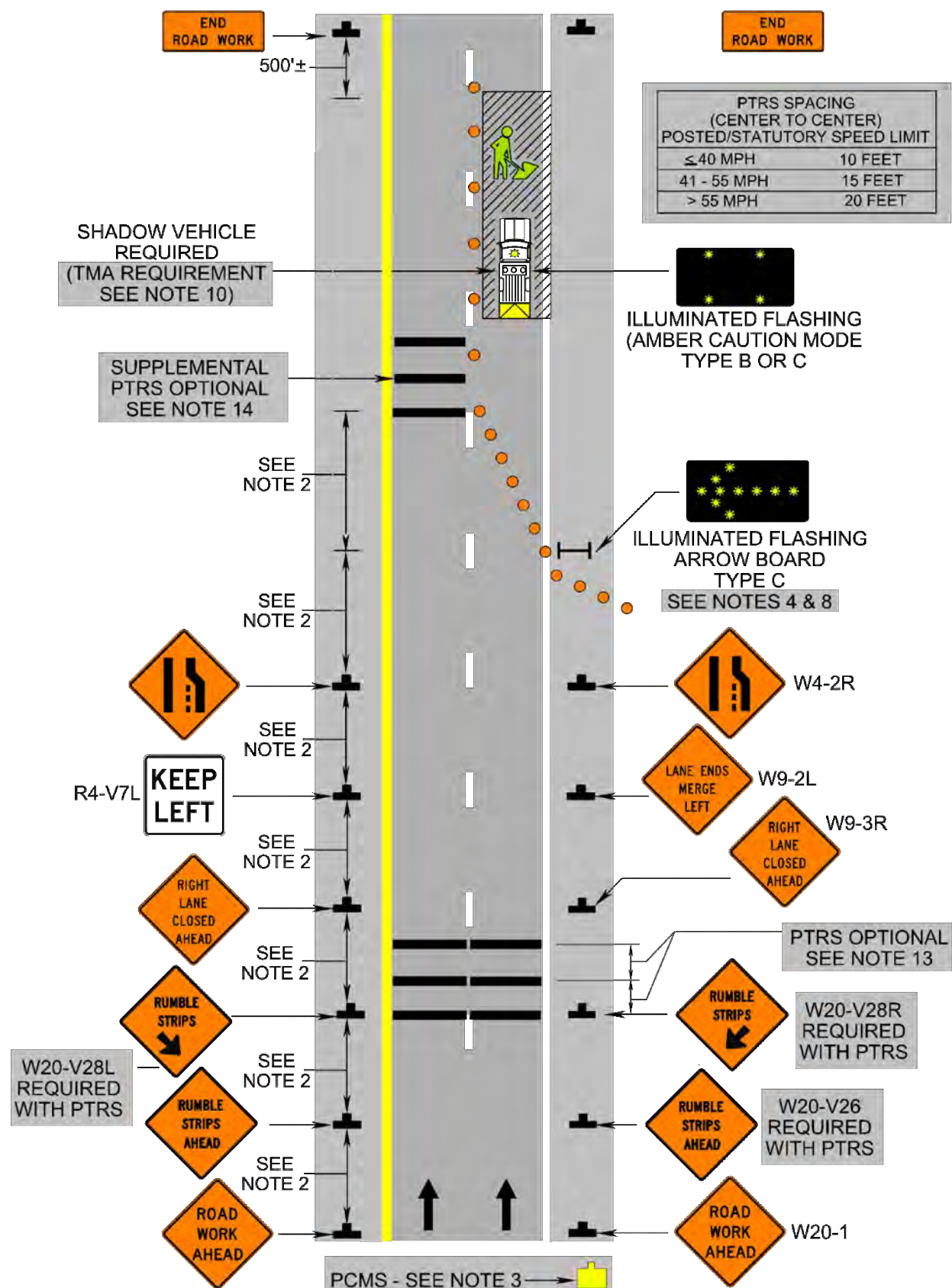
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Shoulder Operation with Minor Encroachment
(Figure TTC-5.2)



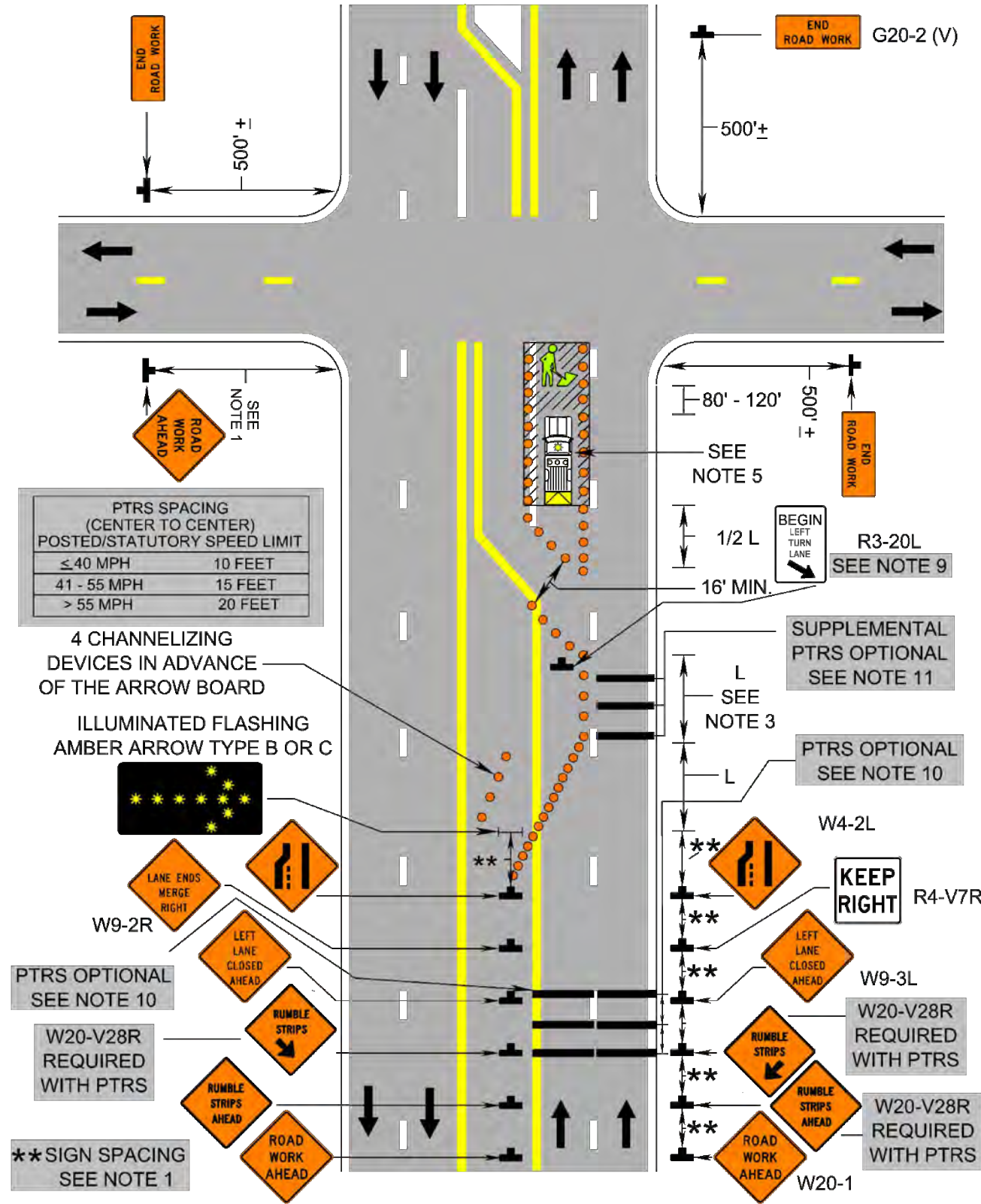
1: Revision 1 – 4/1/2015
2: Revision 2 – 9/1/2019

Outside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-16.2)



2: Revision 2 – 9/1/2019

Lane Closure Operation - Near Side of an Intersection
(Figure TTC-26.2)



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

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

- For required sign assemblies for multi-lane roadways see Note 1, TTC-4.¹
- 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.
- 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.
- 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				
Speed Limit (mph)	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540

Channelizing Device Spacing				
Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)	Location Spacing
Transition	20' 40'	Travelway	40' 80'	Construction Access
- 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.²
- 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
Outside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-16.2)
NOTES

- On divided highways having a median wider than 8', right and left sign assemblies shall be required.
- 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 closing a lane, a PCMS should be used in advance of the first warning sign if all of the left side signs cannot be installed.³
- Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.
- All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement.
- Taper length (L) and channelizing device spacing shall be at the following:

Taper Length L				
Speed Limit (mph)	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540

Channelizing Device Spacing				
Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)	Location Spacing
Transition	20' 40'	Travelway	40' 80'	Construction Access
- An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18).
- The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
- A shadow vehicle with either a Type B or C 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. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.
- Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or oscillating lights.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.

- PTRS and their supporting signs may be used, see Sections 6F.99 and 6G.25. Long-term transverse rumble strips may be used in long-term situations, see Section 6F.99 and TTC-20.⁴
- The supplemental PTRS may be eliminated.⁵

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

Typical Traffic Control
Lane Closure Operation - Near Side of an Intersection
(Figure TTC-26.2)
NOTES

- Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.
- On divided highways having a median wider than 8', right and left sign assemblies shall be required.
- Taper length (L) shall be at the following:

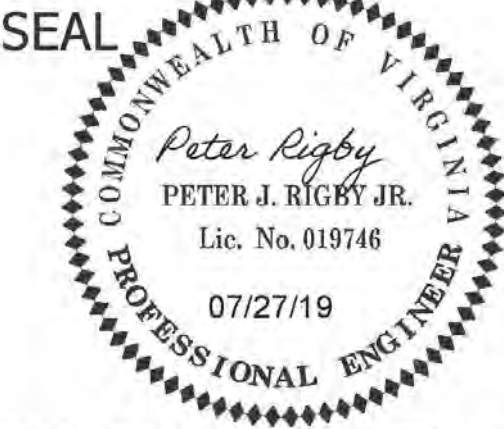
Taper Length L				
Speed Limit (mph)	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540

Channelizing Device Spacing				
Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)	Location Spacing
Transition	20' 40'	Travelway	40' 80'	Construction Access
- Channelizing device spacing shall be at the following:

Channelizing Device Spacing				
Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)	Location Spacing
Transition	20' 40'	Travelway	40' 80'	Construction Access
- If room permits, a shadow vehicle with at least one rotating, oscillating, or amber strobe light should be parked 80'-120' in advance of the first work crew.
- For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or two high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.
- If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.
- If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used.

- PTRS may be used as shown in Figure TTC-17 and in accordance with Section 6F.99.⁶
- The supplemental PTRS may be eliminated.⁷

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



APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	8/5/2020
Kamal Taktak CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
Walter, Sewer, Streets Bureau Chief	08.05.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	8/6/20
Oliver J. Jorgensen PROJECT MANAGER	8.6.2020

REVISIONS	DATE

N. PERSHING DR. & WASHINGTON BLVD.
DC19

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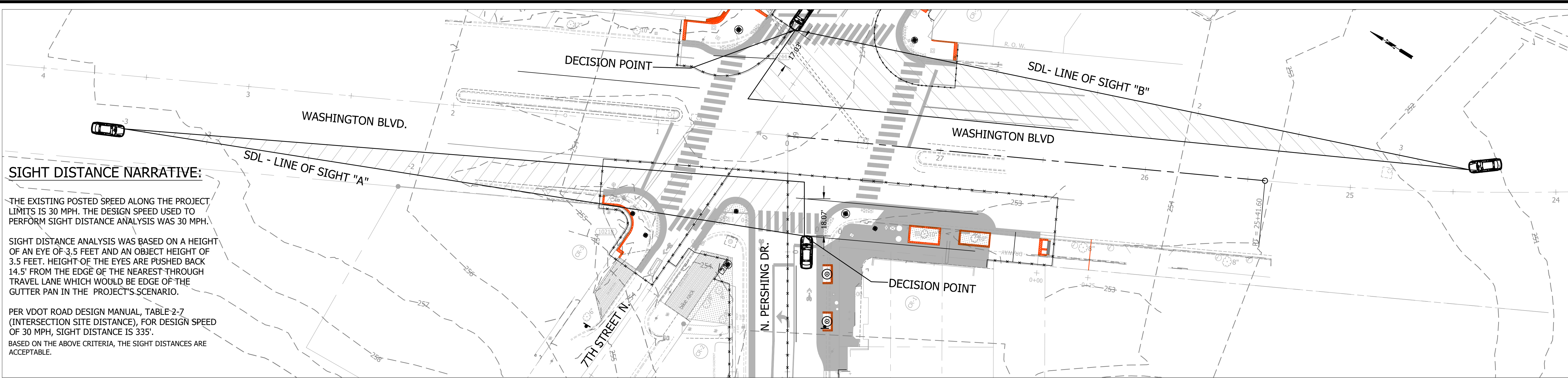
MAINTENANCE OF TRAFFIC NOTES &
DETAILS

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020

SCALE:

AS SHOWN



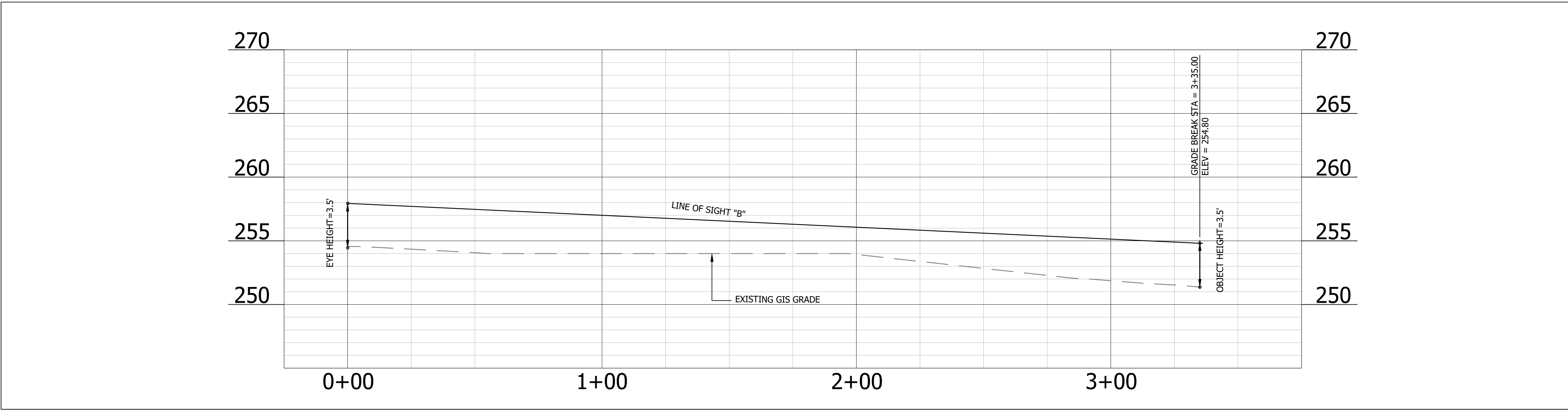
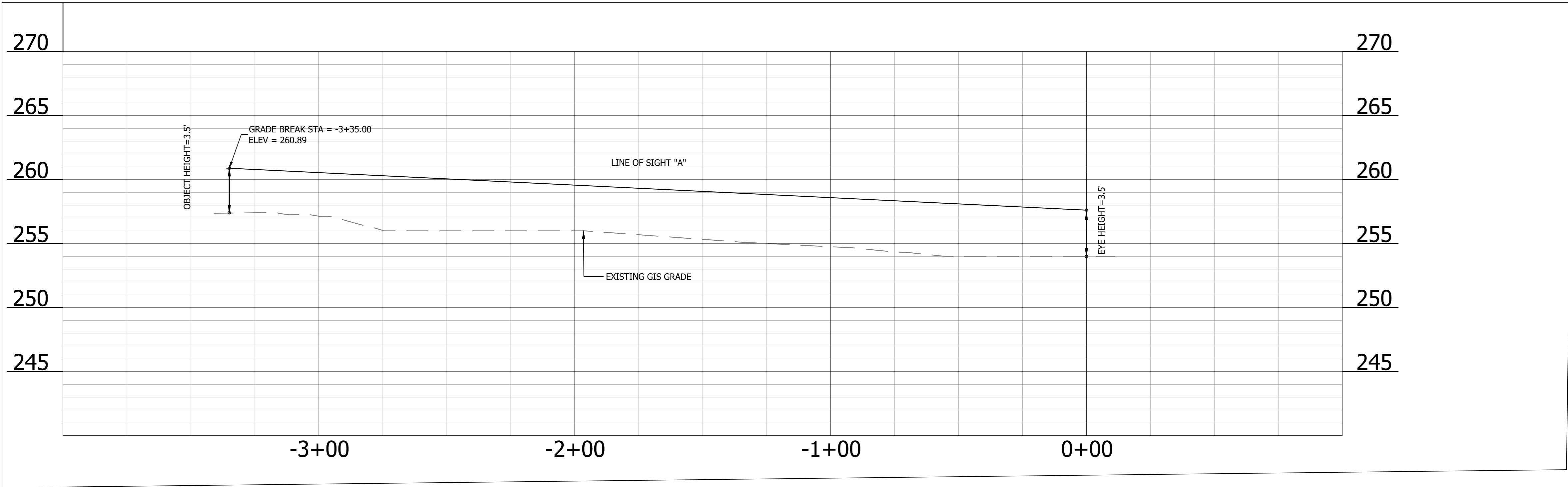
SIGHT DISTANCE NARRATIVE:

THE EXISTING POSTED SPEED ALONG THE PROJECT LIMITS IS 30 MPH. THE DESIGN SPEED USED TO PERFORM SIGHT DISTANCE ANALYSIS WAS 30 MPH.

SIGHT DISTANCE ANALYSIS WAS BASED ON A HEIGHT OF AN EYE OF 3.5 FEET AND AN OBJECT HEIGHT OF 3.5 FEET. HEIGHT OF THE EYES ARE PUSHED BACK 14.5' FROM THE EDGE OF THE NEAREST THROUGH TRAVEL LANE WHICH WOULD BE EDGE OF THE GUTTER PAN IN THE PROJECT'S SCENARIO.

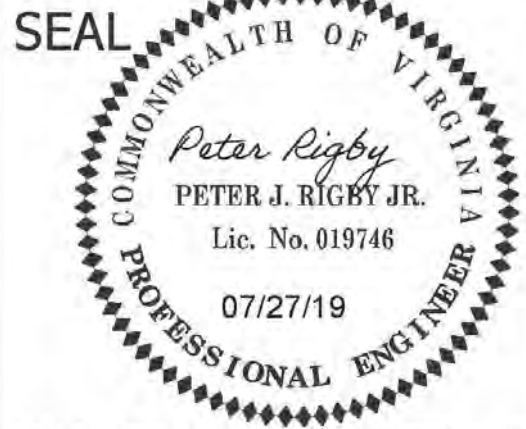
PER VDOT ROAD DESIGN MANUAL, TABLE 2-7 (INTERSECTION SITE DISTANCE), FOR DESIGN SPEED OF 30 MPH, SIGHT DISTANCE IS 335'.

BASED ON THE ABOVE CRITERIA, THE SIGHT DISTANCES ARE ACCEPTABLE.



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<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Oliver</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Oliver</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

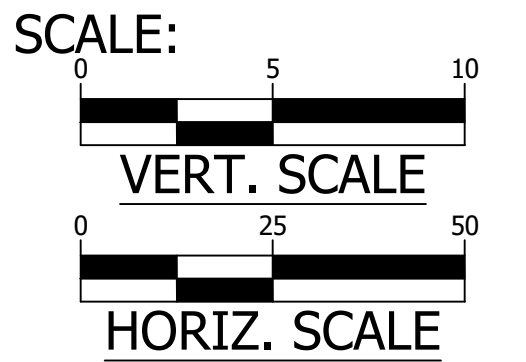
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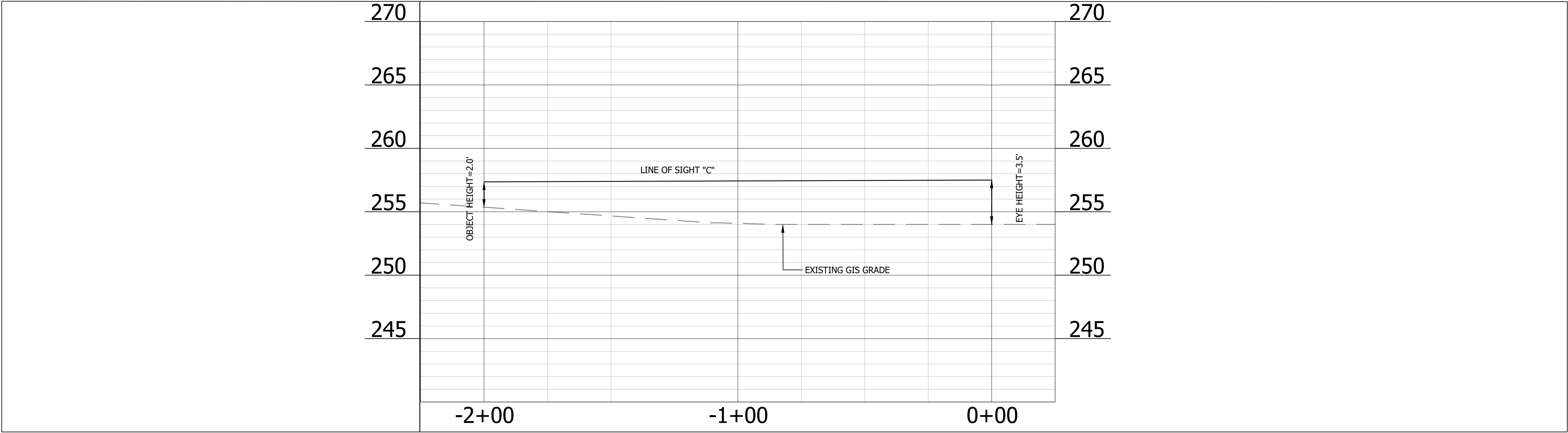
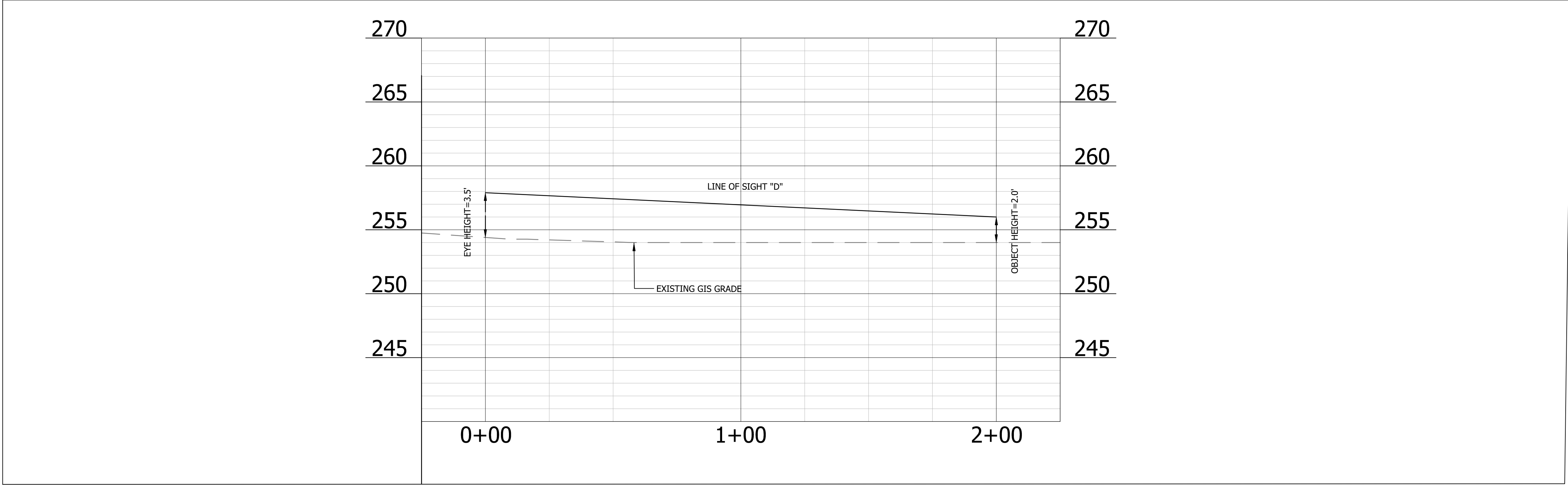
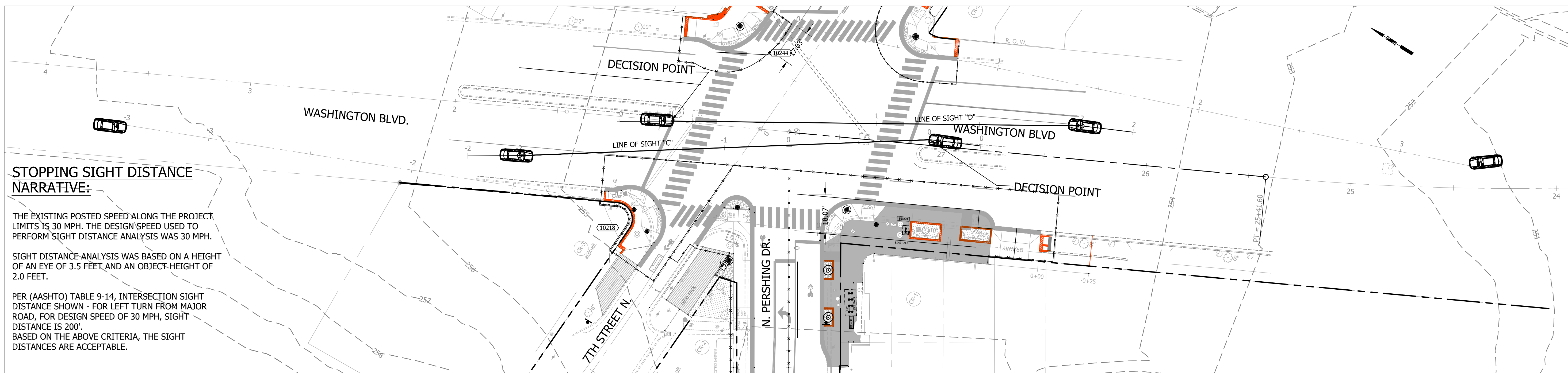
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SIGHT DISTANCE EXHIBIT

DESIGNED: K. PATEL
DRAWN: K. PATEL
CHECKED: P. RIGBY

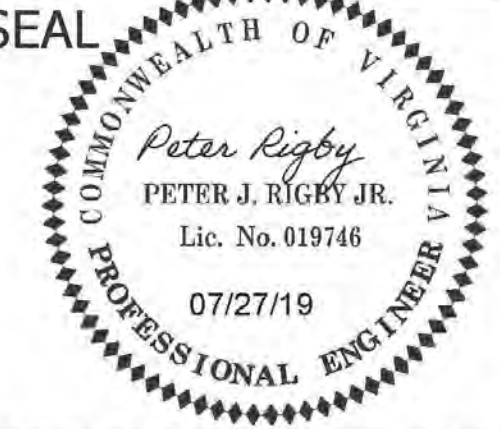
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APPROVALS	DATE
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<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.6.20
<i>Olivera</i> WATER, SEWER, STREETS BUREAU CHIEF	08.05.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	8/6/20
<i>Olivera</i> PROJECT MANAGER	8.6.2020

REVISIONS	DATE

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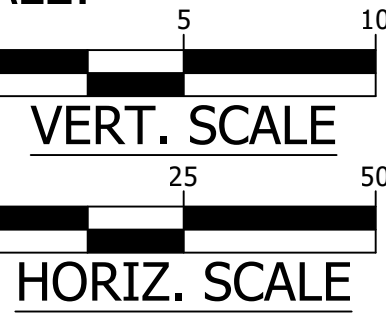
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SIGHT DISTANCE EXHIBIT

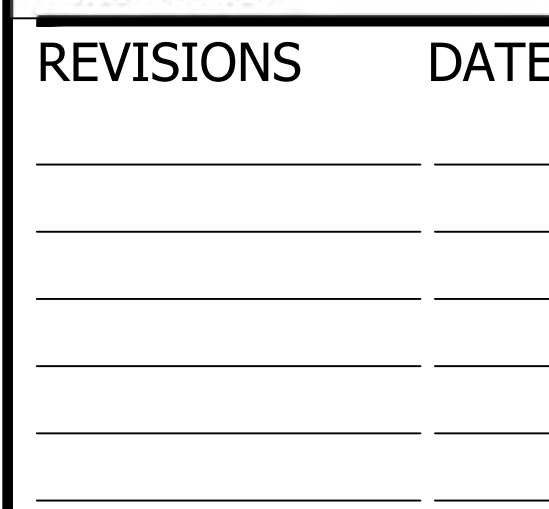
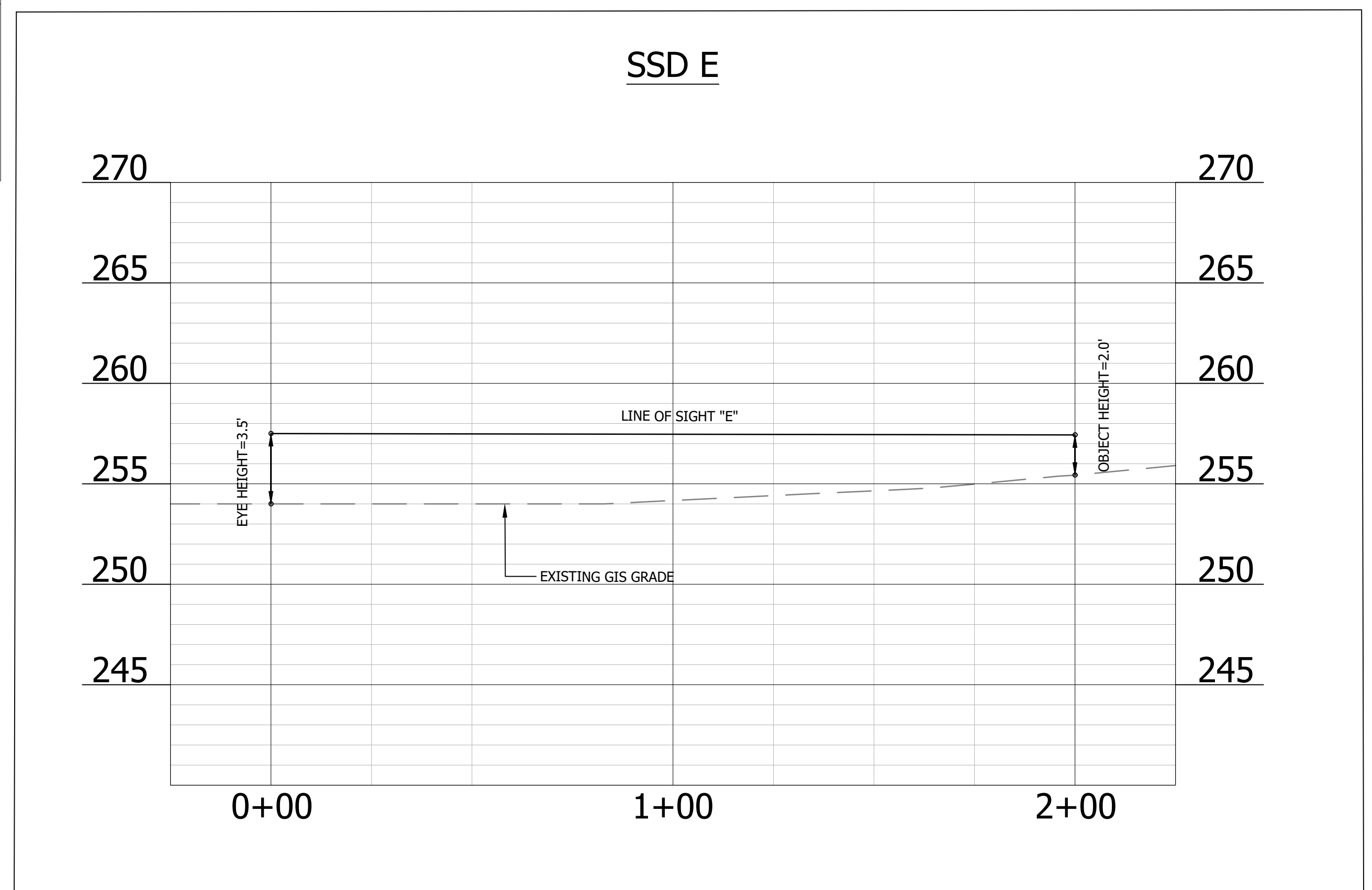
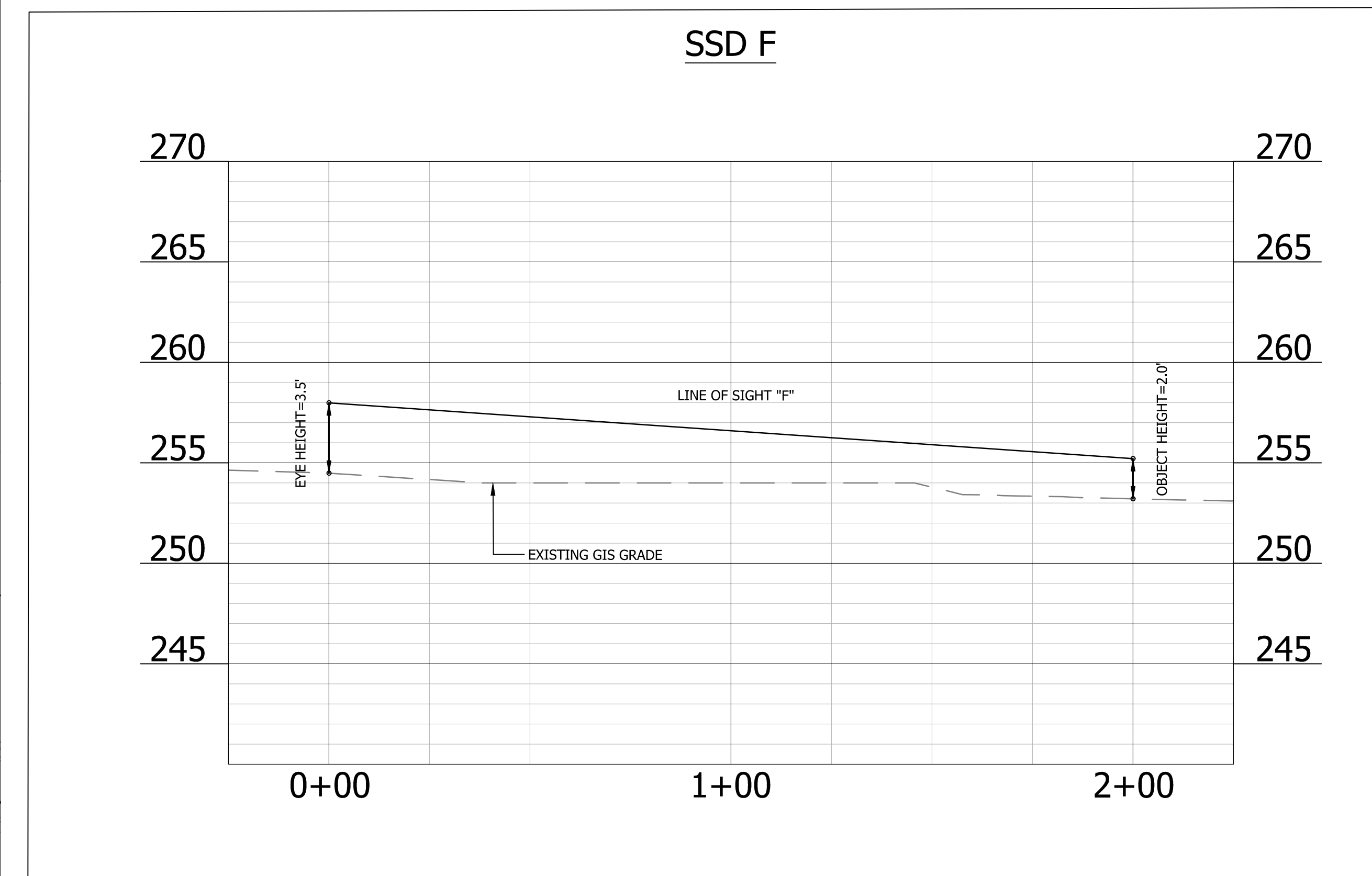
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CHECKED: P. RIGBY

PLOTTED: AUGUST 19 2020

SCALE:



PER (AASHTO) TABLE 9-14, INTERSECTION SIGHT DISTANCE SHOWN - FOR LEFT TURN FROM MAJOR ROAD, FOR DESIGN SPEED OF 30 MPH, SIGHT DISTANCE IS 200'.
BASED ON THE ABOVE CRITERIA, THE SIGHT DISTANCES ARE ACCEPTABLE.



SIGHT DISTANCE EXHIBIT

0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

General Signal Notes

1. ALL WORK FOR TRAFFIC SIGNALS, TRAFFIC SIGNS, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE LATEST EDITION OF THE ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS, 2016 VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, 2016 VDOT ROAD AND BRIDGE STANDARDS, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2019 VIRGINIA WORK AREA PRODUCTION MANUAL, AND SPECIAL PROVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT.
2. FIVE WORKING DAYS PRIOR TO COMMENCING SIGNAL INSTALLATION/MODIFICATION WORK AT ANY LOCATION IN ARLINGTON COUNTY, VIRGINIA, SIGNAL CONTRACTORS MUST NOTIFY THE COUNTY ENGINEER IN WRITING WITH THE NAME, DAYTIME PHONE NUMBER, AND EMERGENCY PHONE NUMBERS OF THE CONTRACTOR.THIS NOTIFICATION IS TO INCLUDE LOCATION, ROUTE NUMBERS, TYPE, AND DETAILS OF CONSTRUCTION AND SCHEDULE OF WORK.
3. THE TRAFFIC SIGNAL CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM ARLINGTON COUNTY.
4. THE COUNTY ENGINEER, PRIOR TO CONSTRUCTION, SHALL VERIFY POLE(S) AND CONTROLLER CABINET LOCATIONS.
5. ALL CATALOG CUTS, POLE CALCULATIONS, FOUNDATION DESIGNS, SHOP DRAWINGS, ETC., SHALL BE SUBMITTED TO, AND APPROVED BY, ARLINGTON COUNTY PRIOR TO CONSTRUCTION.
6. OPERATION OF THE SIGNALIZED INTERSECTION IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE TRAFFIC SIGNAL IS ACCEPTED BY ARLINGTON COUNTY.
7. ANY NOTES NOT MENTIONED IN THE NOTES SECTION OF THIS SIGNAL PLAN WILL REVERT TO THE ARLINGTON COUNTY STANDARDS.
8. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL COMMUNICATION THROUGHOUT THE PROJECT.
9. ALL NEW CONTROLLER CABINETS MUST BE FURNISHED WITH A BACKUP POWER BATTERY.

10. 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 UTILITY LATERALS ARE NOT LOCATED. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITY LATERALS AND IS RESPONSIBLE FOR ANY DAMAGE TO PRIVATE UTILITY LATERALS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE COUNTY PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, SIDEWALK, ETC. THAT ARE DAMAGED DURING CONSTRUCTION .
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION, PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL TEMPORARY DEVICES.
13. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" DRAWINGS TO ARLINGTON COUNTY UPON JOB COMPLETION AND FINAL INSPECTION .
14. EXISTING CONTROLLER AND CABINETS SPECIFIED TO BE REMOVED SHALL BE RETURNED TO ARLINGTON COUNTY.
15. CCTV LOCATIONS AND QUANTITIES ARE FOR PLANNING PURPOSES ONLY. THE FINAL LOCATIONS SHALL BE FIELD LOCATED.
16. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTMENT OF OVERHEAD CABLES TO INSTALL MAST ARM SIGNAL POLES.

Signal Notes

A. POLES AND FOUNDATIONS

1. MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
2. MAST ARM POLES SHALL BE DESIGNED TO THE PROPER HEIGHT TO ACCOMMODATE A STREET LIGHT LUMINAIRE AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS.
3. MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. ALL POLES SHALL HAVE A 6-BOLT PATTERN.
4. AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN THE EXISTING RIGHT-OF-WAY.
5. SIGNAL POLES AND MAST ARMS SHALL BE NON-ORNAMENTAL. COBRA LIGHTING SHALL BE LED.
6. COBRA LIGHTING SHALL BE LED TYPE RFL-145W64LED4K-T-R2M-UNIV-DMG-PH8-RCD7-[USA-003]-BK. DECORATIVE POST-TOP LIGHTING SHALL BE HADCO DECORATIVE POST-TOP LUMINAIRE WITH RELUME LED KIT (UAZ XRE LED 57.69W).

B. CONTROLLER AND FOUNDATION

1. NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS.
2. CONTROLLER SHALL BE INTELIGHT X-3 AND SHALL BE INSTALLED AND SET AS FOLLOWS:

2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL

2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
3. THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01, 66-02, AND 70-01.
4. THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS.

C. TRAFFIC SIGNAL HEADS

1. ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
2. PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).
3. ALL SIGNAL HEADS SHALL BE YELLOW IN COLOR.

D. DETECTORS

1. ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA NAVIGATOR VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED.
2. NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.
3. EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721), OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS.
4. EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

1. ALL JUNCTION BOXES SHALL HAVE THE WORDS "ARLINGTON COUNTY TRANSPORTATION" CAST IN THE LID. ALL JUNCTION BOXES SHALL BE INSTALLED PER STANDARDS 61-01, 61-02, 61-03, AND 61-04.
2. METER PEDESTAL SHALL BE INSTALLED PER COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
3. CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS DIRECTED BY THE COUNTY ENGINEER.
4. ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
5. ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED. ALL JUNCTION BOXES SHALL BE PROPERLY CONNECTED TO THE INTERSECTION GROUNDING SYSTEM. METAL LIDS SHALL BE BONDED TO THE GROUNDING SYSTEM.
6. CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.
7. ALL CONDUITS BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED UNLESS DIRECTED OTHERWISE BY THE COUNTY CONSTRUCTION MANAGER. WHERE DIRECTED ON THE PLANS OR BY THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL INSTALL SPARE CONDUITS WITH PULL TAPE AND TRACER WIRE FOR ROAD CROSSINGS.
8. ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW CABLES.
9. NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS. CONTRACTOR SHALL CONFIRM MOUNTING LOCATION OF CCTV CAMERA WITH COUNTY PRIOR TO INSTALLATION.
10. CONTRACTOR TO VERIFY THE CONDUIT AND % FILL. IF THERE IS NOT ENOUGH CAPACITY IN CONDUIT, THEN THE CONTRACTOR SHALL INSTALL NEW CONDUIT.
11. ALL PROPOSED CONDUIT SHALL HAVE #6 AWG (EGC) & TRACER WIRE FOR GROUNDING SYSTEM.
12. REMOVE ALL EXISTING UNUSED RISERS, JUNCTION BOXES, AND CABLES.

F. SIGNS

1. ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
2. STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

G. DEMOLITION/SALVAGE

1. ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.
2. ALL EXISTING SIGNAL POLE FOUNDATIONS SHALL BE DEMOLISHED IN ACCORDANCE WITH ARLINGTON COUNTY SPECIFICATIONS.

H. COMMUNICATIONS

1. EXISTING COUNTY FIBER JUNCTION BOXES AND CONDUITS CONTAIN LIVE FIBER OPTIC CABLES. THE CONTRACTOR SHALL NOT CUT OR DAMAGE THE COUNTY'S EXISTING FIBER CABLES.
2. ALL FIBER OPTIC CABLE INSTALLATION, REMOVAL, SPLICING, AND TESTING SHALL BE PERFORMED BY THE COUNTY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MAY CONTRACT DIRECTLY WITH THE COUNTY'S FIBER CONTRACTORS. UPON REQUEST 703-228-7726, THE COUNTY WILL PROVIDE THE CONTACT INFORMATION FOR CURRENT QUALIFIED COUNTY FIBER CONTRACTORS.
3. CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
4. CONTRACTOR SHALL FURNISH FIBER PATCH PANEL FOR INSTALLATION BY THE COUNTY. FIBER PIGTAIL SHALL BE APPROPRIATE LENGTH TO ALLOW FOR 50 FEET OF SLACK IN EACH INTERMEDIATE JUNCTION BOX. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PATCH PANEL (INDICATING THE TAIL LENGTH) FOR COUNTY REVIEW PRIOR TO ORDERING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PROPOSED JUNCTION BOXES AND CONDUITS INCLUDING ALL APPURTENANCES SUCH AS GROUND RODS, TRACER WIRE, PULL TAPE, ETC.
6. ALL NEW CONDUITS SHALL HAVE PULL TAPE INSTALLED BETWEEN JUNCTION BOXES AND TRACER WIRE INSTALLED WITHIN OR BESIDE AT LEAST ONE OF THE CONDUITS. TRACER WIRE SHALL BE CONNECTED TO THE GROUND RODS INSTALLED IN THE ADJACENT JUNCTION BOXES.
7. DO NOT SPLICE TRACER WIRE.

I. INSPECTIONS

1. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER FOR INSPECTIONS THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONSTRUCTION MANAGER.
2. THE COUNTY SHALL VERIFY POLE LOCATIONS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY MR. SHAHID MOHIUDDIN, 703-228-7555 TO SCHEDULE INSPECTION PRIOR TO EXCAVATION, AND AGAIN PRIOR TO POURING CONCRETE. STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
3. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER WITHIN 7 BUSINESS DAYS OF SIGNAL ACTIVATION. ALL POWER AND COMMUNICATIONS SHALL BE IN OPERATION AT THE TIME OF ACTIVATION UNLESS APPROVED BY THE COUNTY CONSTRUCTION MANAGER.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719

SEAL



APPROVALS

DATE

	08/13/20
TRAFFIC SIGNAL ENGINEER	
	08/13/20
TRAFFIC ENGINEERING MANAGER	
	08/13/2020
TE&O BUREAU CHIEF	
	08/13/20
TRANSPORTATION DIRECTOR	

REVISIONS

DATE

Project Name and Location

Traffic Signal Design

Signal Notes
Washington Blvd. Signal Upgrades

(TR08)

Designed: AS
Drawn: LL
Checked: GG
Miss Utility Transmittal #:

Plotted: August 04, 2020
Plotted by: Lawrence.Laynburd

Scale:
HOR. N/A VERT. N/A

Sheet

TS-1

[illegible]

SIGN DETAIL

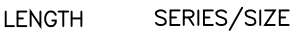
SIGN DETAIL

SIGN NUMBER Pershing Dr
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 BORDER WIDTH 0.75"
 CORNER RADIUS 1.88"
 MOUNTING Overhead
 BACKGROUND TYPE: Reflective
 COLOR: Green
 LEGEND/BORDER TYPE: Reflective
 COLOR: White/White

BORDER
 R=1.88"
 TH=0.75"

6.15" 71.7" 6.15"

[illegible][illegible]

[illegible]

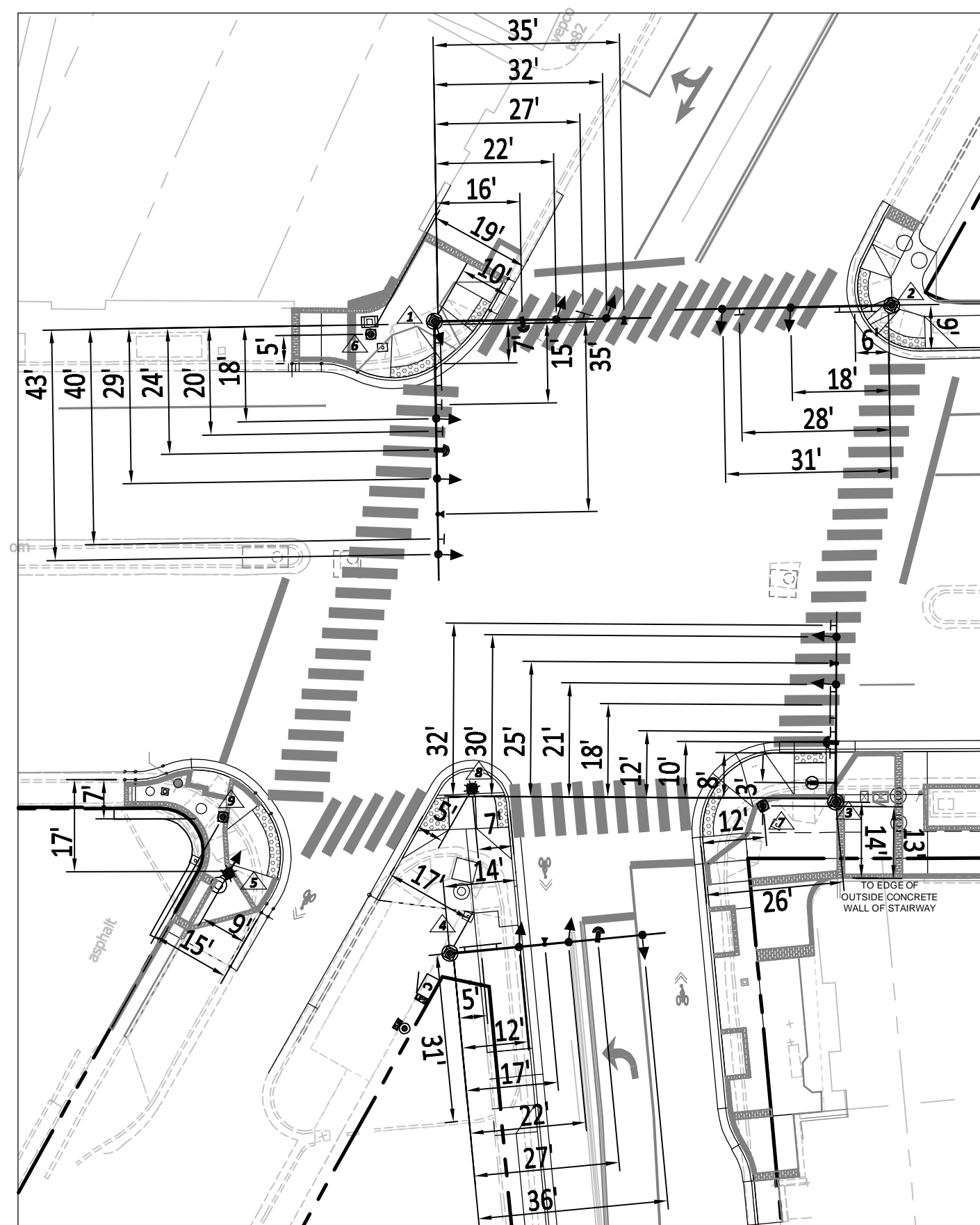
REVISED: MARCH 03, 2020
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CONDUIT & CABLE RUNS

- A** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c PEDESTRIAN SIGNAL P41
1-14/3c PEDESTRIAN PUSH BUTTON PB41
1-#6 BARE COPPER GROUNDING WIRE
- B** 2-3" CONDUITS (TRENCHED) PVC
4-14/7c SIGNAL HEADS 21, 22, 41, 42, 51, 84
1-14/7c PEDESTRIAN SIGNAL P22
1-14/3c PEDESTRIAN PUSH BUTTON PB22
2-THERMAL DETECTION LEAD-IN CABLES VD2, VD8
1-12/2c CABLE FOR LUMINAIRE SL1
2-#6 BARE COPPER GROUNDING WIRES
- C** 1-4" CONDUIT (BORED) HDPE
4-14/7c SIGNAL HEADS 21, 22, 41, 42, 51, 84
2-14/7c PEDESTRIAN SIGNALS P22, P41
2-14/3c PEDESTRIAN PUSH BUTTONS PB22, PB41
2-THERMAL DETECTION LEAD-IN CABLES VD2, VD8
1-12/2c CABLE FOR LUMINAIRE SL1
1-#6 BARE COPPER GROUNDING WIRE
- D** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c PEDESTRIAN SIGNAL P42
1-14/3c PEDESTRIAN PUSH BUTTON PB42
1-#6 BARE COPPER GROUNDING WIRE
- E** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c SIGNAL HEAD 45
1-14/3c PEDESTRIAN SIGNAL P61
1-14/3c PEDESTRIAN PUSH BUTTON PB61
1-12/2c CABLE FOR LUMINAIRE SL5
1-#6 BARE COPPER GROUNDING WIRE
- F** 1-4" CONDUIT (BORED) HDPE
1-14/7c SIGNAL HEAD 45
2-14/7c PEDESTRIAN SIGNAL P42, P61
2-14/3c PEDESTRIAN PUSH BUTTON PB42, PB61
1-12/2c CABLE FOR LUMINAIRE SL5
1-#6 BARE COPPER GROUNDING WIRE
- G** 2-3" CONDUIT (TRENCHED) PVC
1-14/7c SIGNAL HEADS 81, 82
2-14/7c PEDESTRIAN SIGNALS P21, PB2
2-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB82
1-12/2c CABLE FOR LUMINAIRE SL2
2-#6 BARE COPPER GROUNDING WIRE
- H** 1-4" CONDUIT (BORED) HDPE
1-14/7c PEDESTRIAN SIGNALS P21, PB2
2-14/7c PEDESTRIAN SIGNALS P21, PB2
2-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB82
1-12/2c CABLE FOR LUMINAIRE SL2
1-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB82
1-#6 BARE COPPER GROUNDING WIRE
- I** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c PEDESTRIAN SIGNAL P64
1-14/3c PEDESTRIAN PUSH BUTTON PB64
1-#6 BARE COPPER GROUNDING WIRE
- J** 2-3" CONDUIT (TRENCHED) PVC
1-14/7c SIGNAL HEADS 61, 62
1-14/7c PEDESTRIAN SIGNAL P81
1-14/3c PEDESTRIAN PUSH BUTTON PB63
1-THERMAL DETECTION LEAD-IN CABLE VD6
1-CCTV LEAD-IN CABLE
2-#6 BARE COPPER GROUNDING WIRE
- K** 1-4" CONDUIT (BORED) HDPE
2-14/7c SIGNAL HEADS 61, 62, 81, 82
4-14/7c PEDESTRIAN SIGNALS P21, P64, P81, PB2
4-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB63, PB81, PB82
1-THERMAL DETECTION LEAD-IN CABLE VD6
2-12/2c CABLE FOR LUMINAIRE SL2, SL3
1-CCTV LEAD-IN CABLE
1-#6 BARE COPPER GROUNDING WIRE
- L** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c SIGNAL HEADS 81, 82
2-14/7c PEDESTRIAN SIGNALS P62, P63
1-12/2c CABLE FOR LUMINAIRE SL6
1-#6 BARE COPPER GROUNDING WIRE
- M** 2-3" CONDUITS (TRENCHED) PVC
2-14/7c SIGNAL HEADS 61, 62, 81, 82
6-14/7c PEDESTRIAN SIGNALS P21, P62, P63, P64, P81, PB2
5-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB62, PB63, P81, PB82
1-THERMAL DETECTION LEAD-IN CABLE VD6
3-12/2c CABLE FOR LUMINAIRE SL2, SL3, SL6
1-CCTV LEAD-IN CABLE
1-#6 BARE COPPER GROUNDING WIRE
- N** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c PEDESTRIAN SIGNAL P64
1-14/3c PEDESTRIAN PUSH BUTTON PB64
1-#6 BARE COPPER GROUNDING WIRE
- O** 5-3" CONDUITS (TRENCHED) PVC
9-15/7c SIGNAL HEADS 21, 22, 41, 42, 43, 44, 45, 61, 62, 81, 82, 83, 84
10-14/7c PEDESTRIAN SIGNALS P21, P22, P41, P42, P61, P62, P63, P64, P81, PB2
9-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB22, PB41, PB42, PB61, PB62, PB63, P81, PB82
4-THERMAL DETECTION LEAD-IN CABLES VD2, VD4, VD6, VD8
6-12/2c CABLE FOR LUMINAIRE SL1, SL2, SL3, SL4, SL5, SL6
1-CCTV LEAD-IN CABLE
4-#6 BARE COPPER GROUNDING WIRE
- P** 1-2" CONDUIT (TRENCHED) METAL
4-#6 AWG FOR ELECTRICAL SERVICE
- Q** 1-2" CONDUIT (TRENCHED) METAL
4-#6 AWG FOR ELECTRICAL SERVICE
2-12/2c CABLE
- R** 1-2" CONDUIT (TRENCHED) METAL
4-#6 AWG FOR SYSTEM GROUNDING
- S** 1-2" CONDUIT (BORED) HDPE

POLE LOCATION DETAIL

(SCALE: 1" = 25')



POLE SIGNAL MOUNTING

No.	STANDARD			POLE SIGNAL MOUNTING				STREET NAME SIGN
	TYPE	SIG. M.A.	LUM. M.A.	VEHICLE & PED. HEADS	PED. PUSH BUTTONS	SIGNALS	VIDEO DETECTOR PREEMPTION & CCTV	
1	MAST ARM POLE	48"/40'	6'	145W	21,22,41,42,51,84,P22	PB22	S-4,S-5,S-6,S-7,S-10	S-3
2	MAST ARM POLE	40'	6'	145W	81,82,P21,P82	PB21, PB82	S-8,S-10,S-11	S-2
3	MAST ARM POLE	35'	6'	145W	61,62,P81	PB81	S-5,S-8,S-9,S-10	S-1
4	MAST ARM POLE	35'	6'	145W	43,44,83	-	-	S-2
5	CARLYLE POLE	-	-	58W	45,P61	PB61	S-10,S-13	-
6	PEDESTAL POLE	-	-	-	P41	PB41	S-10	-
7	PEDESTAL POLE	-	-	-	P64	PB63	S-10	-
8	CARLYLE POLE	-	-	58W	P62,P63	PB62	S-12	-
9	PEDESTAL POLE	-	-	-	P42	PB42	S-11	-

CONSTRUCTION NOTES

EXISTING CONTROLLER AND CABINET TO BE REPLACED WITH NEW CONTROLLER AND CABINET ON A NEW FOUNDATION. ALL OTHER EXISTING EQUIPMENT TO BE REMOVED INCLUDING UNUSED WIRING, CONDUIT, AND JUNCTION BOXES, UNLESS OTHERWISE SPECIFIED. EXISTING CONTROLLER AND CABINET SHALL BE RETURNED TO ARLINGTON COUNTY.

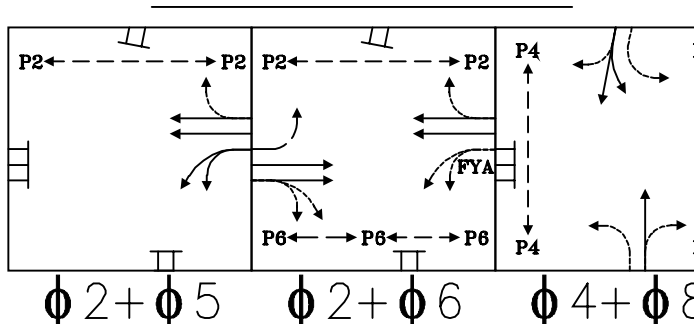
SEE SHEET 4 FOR TEMPORARY SIGNAL PLAN DURING CONSTRUCTION.

- INSTALL SIGNAL CONTROLLER CABINET WITH UPS. CABINET SHALL BE ORIENTED TO PROVIDE TECHNICIAN VIEW OF SIGNAL DISPLAYS AND CABINET DOOR TO OPEN TO EXISTING SIDEWALK AREA.
- INSTALL UNDERGROUND ELECTRIC SERVICE WITH PEDESTAL METERPAN PER ARLINGTON STANDARD 80-01. PROPOSED CONDUIT SHOWN TO THE APPROXIMATE LOCATION OF POWER SOURCE. TO BE FINALIZED BASED UPON ONGOING DVP COORDINATION.
- INSTALL NON-ORNAMENTAL MAST ARM SIGNAL POLE WITH LUMINAIRE.
- INSTALL NON-ORNAMENTAL MAST ARM SIGNAL POLE WITH LUMINAIRE, PEDESTRIAN SIGNAL HEAD(S), AND POLARA PEDESTRIAN EQUIPMENT.
- INSTALL PEDESTAL POLE WITH PEDESTRIAN SIGNAL, POLARA PEDESTRIAN EQUIPMENT, AND SIGN.
- INSTALL CARLYLE POLE WITH STREETLIGHT, PEDESTRIAN SIGNAL HEAD, AND POLARA PEDESTRIAN SIGNAL EQUIPMENT.
- SEE COMMUNICATION PLAN ON SHEET TS-6 FOR COMMUNICATION CONNECTION DETAILS.
- CONDUIT TO TERMINATE AT BASE OF EXISTING POLE WITH POWER SOURCE.

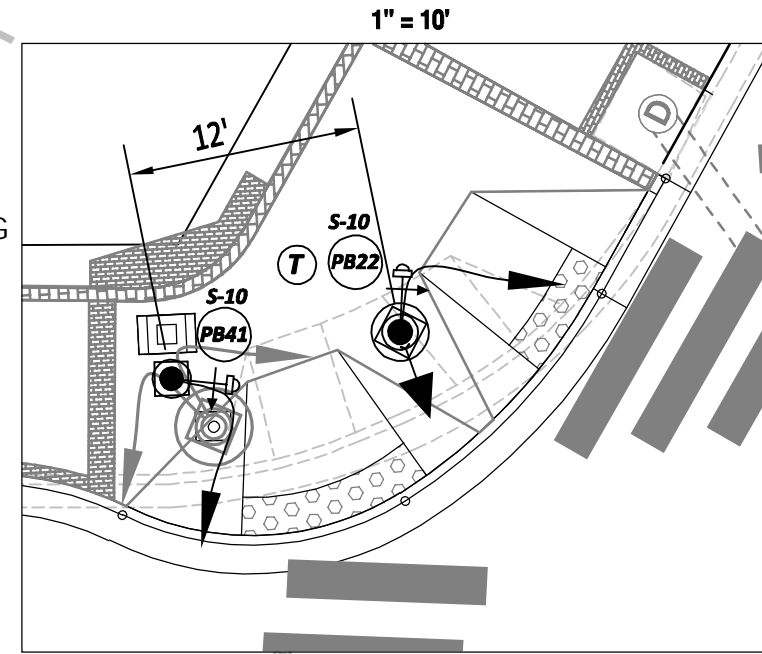
POLE LOCATION SCHEDULE AND TYPE

No.	DESIGN NUMBER	POLE HEIGHT	SIG. M.A.	FOUNDATION TYPE	POLE STICKER ID
1	50700-B1991-Y4	30'	48"/40'	66-06(#7)	122 MA 01 NE
2	50700-B1991-Y1	30'	40'	66-06(#1)	122 MA 01 SE
3	50700-B1991-Y1	30'	35'	66-06(#1)	122 MA 01 SW
4	50700-B1991-Y1	30'	40'	66-06(#1)	122 MA 01 W
5	-	16'	-	14060-01	122 CP 01 NW
6	-	12'	-	66-04	-
7	-	12'	-	66-04	-
8	-	16'	-	14060-01	122 CP 02 W
9	-	12'	-	66-04	-

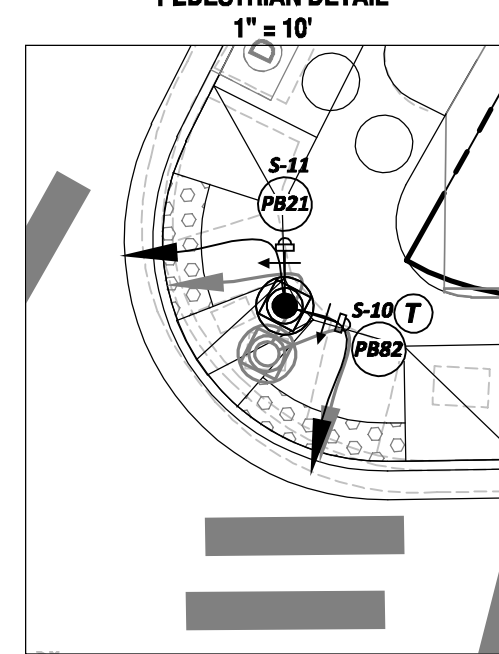
EXISTING/PROPOSED PHASING DIAGRAM



NORTHEAST CORNER PEDESTRIAN DETAIL 1" = 10'



SOUTHEAST CORNER PEDESTRIAN DETAIL 1" = 10'



PROPOSED STREET NAME SIGNS

N Pershing Dr

S-1
D3-1
84"x18"

Washington Blvd

S-2
D3-1
96"x18"

7th St N
N Pershing St

S-3
D3-1
120"x30"

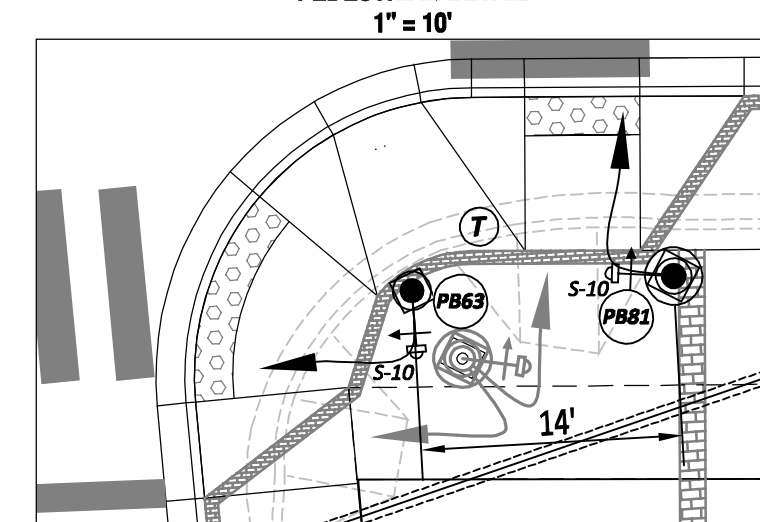
PROPOSED SIGNS

- LEFT TURN YIELD ON FLARING YELLOW ARROW
S-4
R10-V1
36"x42"
- NO TURN ON RED
S-5
R10-11
36"x48"
- ONLY
S-6
R3-5(R)(MOD)
30"x48"
- PERSHING DR 7TH ST
ONLY
S-7
R3-8(MOD)
42"x42"
- ONLY
S-8
R3-5(L)
30"x36"
- TURNING VEHICLES
S-9
R10-15
30"x30"

EXISTING SIGNS TO BE RELOCATED

7TH ST N
S-13

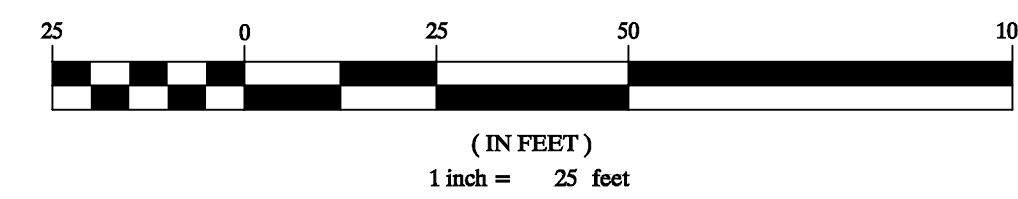
SOUTHWEST CORNER PEDESTRIAN DETAIL 1" = 10'



LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (61-02)		
Signal Junction Box (61-04)		
Comm. Junction Box		
Service Junction Box		
Mast Arm Pole & Foundation		
Pedestrian Pedestal Pole & Foundation		
Carlyle Lighting Pole & Foundation		
Service Meter		
Battery Backup (UPS)		
Vehicle Signal Head (LED)		
Pedestrian Push Button		
FLIR Video Detection		
Emergency Vehicle Preemption		
CCTV Vehicle Camera		
Overhead Light (LED)		
Conduit Run		

GRAPHIC SCALE



ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES

Transportation Engineering and
Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719

SEAL



APPROVALS

DATE

Shirley Kelle 08/13/20
TRAFFIC SIGNAL ENGINEER
Joe Niles 08/13/20
TRAFFIC ENGINEERING MANAGER
Harry 08/13/2020
TE&O BUREAU CHIEF
Dennis M. Leach 08/13/20
TRANSPORTATION DIRECTOR

REVISIONS

DATE

Traffic Signal Design

Traffic Signal Plan
Washington Blvd. Signal Upgrades

(TR08)

Project Name and Location

Designed: AS
Drawn: LL
Checked: GG
Miss Utility Transmittal #:

Plotted: August 05, 2020
Plotted by: Lawrence.Layburn

Scale:
HOR. 1" = 25' VERT. N/A

Sheet

TS-5

Traffic Signal Design (TR08)

GENERAL NOTES

- CONTRACTOR SHALL SUBMIT SPLICE ENCLOSURES FOR ENGINEER APPROVAL.
- CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CUTTING OR DISCONNECTING ANY FIBER CABLE. CONTRACTOR SHALL NOT PROCEED WITH FIBER CUTTING UNLESS ENGINEER IS ON-SITE.
- CONTRACTOR SHALL RE-SPLICE ALL FIBERS TO LIKE COLORED FIBERS AND SHALL MATCH LIKE COLORED BUFFER TUBES WITH LIKE COLORED BUFFER TUBES.
- CONTRACTOR SHALL PERFORM BI-DIRECTIONAL OTDR TESTING ON ALL OF THE 144 FIBER OPTIC CABLES AND THE 12 FIBER CABLE FROM THEIR TERMINATION POINTS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO GAIN ACCESS TO THE NEAREST FIBER TERMINATION POINTS FOR THE ITS AND DTS 144 FIBER OPTIC CABLES TO PERFORM TESTING.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH BI-DIRECTIONAL OTDR TEST RESULTS IN PDF FORMAT FOR APPROVAL. NO WORK SHALL BE ACCEPTED IF THE FOLLOWING REQUIREMENTS ARE NOT MET:
 - EACH FUSION SPLICE LOSS DOES NOT EXCEED 0.05 DB, BI-DIRECTIONALLY AVERAGED
 - CABLE ATTENUATION MAY NOT EXCEED 0.30 DB/KM AT 1550 NM AND 0.40 DB/KM AT 1310 NM.IF ANY OF THE ABOVE CONDITIONS ARE NOT MET, THEN TAKE APPROVED CORRECTIVE ACTION, INCLUDING REMAKING SPLICES OR REPLACING COMPLETE SEGMENTS OF FIBER OPTIC CABLE, AS REQUIRED. CORRECTIVE ACTION WILL BE AT NO ADDITIONAL COST TO THE COUNTY.
- THE CONTRACTOR SHALL NOT CUT OR DAMAGE EXISTING FIBER OPTIC CABLES OR FIBER OPTIC SPLICE ENCLOSURES. WHEN HANDLING THE EXISTING FIBER OPTIC CABLES, THE CONTRACTOR SHALL PROTECT THE CABLES FROM EXCEEDING THE MINIMUM BEND RADIUS OF 14 INCHES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR AND COSTS ASSOCIATED WITH DAMAGED FIBER OPTIC CABLES OR SPLICE ENCLOSURES DUE TO CONSTRUCTION ACTIVITIES.
- ALL CABLING AND SPLICE ENCLOSURES IN JUNCTION BOXES SHALL BE NEATLY ARRANGED.

CONSTRUCTION NOTES

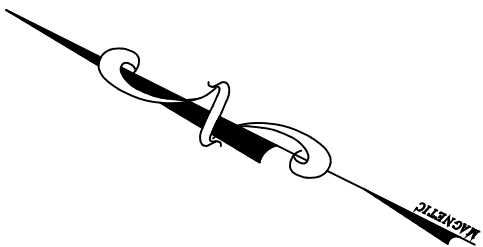
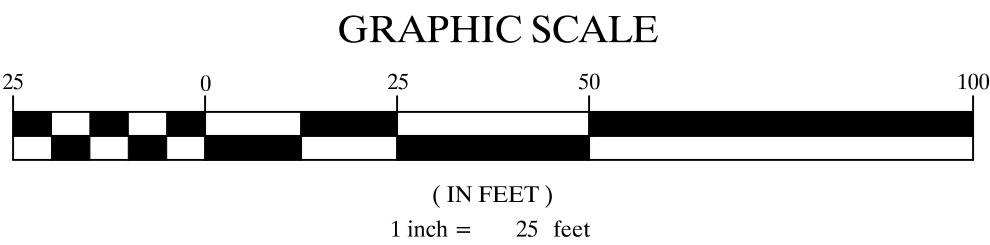
- CONTRACTOR SHALL REMOVE ALL COMMUNICATION EQUIPMENT TO INCLUDE: 12 FIBER PATCH PANEL AND FIBER CABLE, ETHERNET SWITCH AND JUMPER CABLES FROM EXISTING CONTROLLER CABINET. 12 FIBER PATCH PANEL AND FIBER CABLE TO BE DISCARDED. ETHERNET SWITCH AND JUMPER CABLES SHALL BE RELOCATED TO PROPOSED CONTROLLER CABINET.
- EXISTING CONTROLLER LOCATION
- PROPOSED CONTROLLER LOCATION
- CONTRACTOR SHALL INSTALL RELOCATED ETHERNET SWITCH AND JUMPER CABLES IN PROPOSED CONTROLLER CABINET. CONTRACTOR SHALL ALSO INSTALL NEW PRE-TERMINATED 12 FIBER PATCH PANEL WITH SUFFICIENT LENGTH OF SPUR FIBER CABLE TO REACH EXISTING SPLICE ENCLOSURE AT LOCATION A. PRE-TERMINATED PATCH PANEL TO BE INSTALLED VERTICALLY IN CONTROLLER CABINET. INSTALL SPUR FIBER CABLE IN PROPOSED CONDUIT.
- WITHIN EXISTING FIBER SPLICE ENCLOSURE, DISCONNECT EXISTING SPUR FIBER CABLE. INSTALL NEW SPUR FIBER CABLE FROM PROPOSED CONTROLLER CABINET TO EXISTING SPLICE ENCLOSURE, AND CONNECT TO THE SAME FIBERS CONNECTED TO ORIGINAL SPUR FIBER CABLE. CONTRACTOR SHALL PROVIDE 50' OF COILED SPUR FIBER CABLE IN JUNCTION BOX.
- RE-ENTER EXISTING JUNCTION BOX WITH NEW CONDUIT.
- INSTALL JUNCTION BOX (61-02) WITH COUNTY APPROVED LABELING ON JUNCTION BOX LID
- LOCATION A

CONDUIT & CABLE

- A 4-2" CONDUIT (EXISTING)
2-144 FIBER CABLES (EXISTING)
- B 1-2" CONDUIT (BORED) HDPE (NEW)
1-12 FIBER CABLE (NEW)
- C 1-2" CONDUIT PVC (NEW)
1-12 FIBER CABLE (NEW)

LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (61-02)		
Signal Junction Box (61-04)		
Comm. Junction Box (61-02)		
Comm. Junction Box (61-04)		
Conduit Run	=====	=====



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Fax: 703.228.3719

SEAL



APPROVALS

DATE

	08/13/20
	08/13/20
	08/13/2020
	08/13/20

REVISIONS

DATE

Project Name and Location

Traffic Signal Design

Communications Plan
Washington Blvd. Signal Upgrades

(TR08)

Designed: AS
Drawn: LL
Checked: GG
Miss Utility Transmittal #:

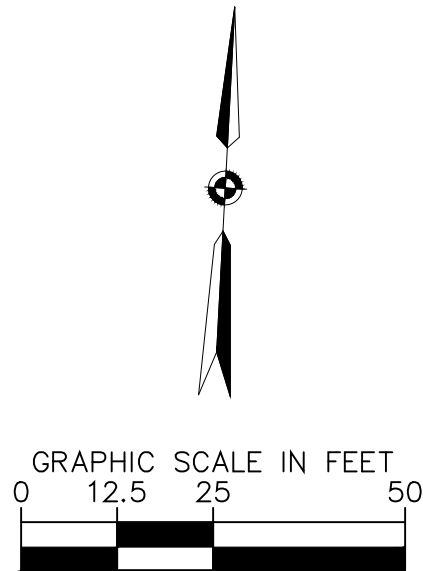
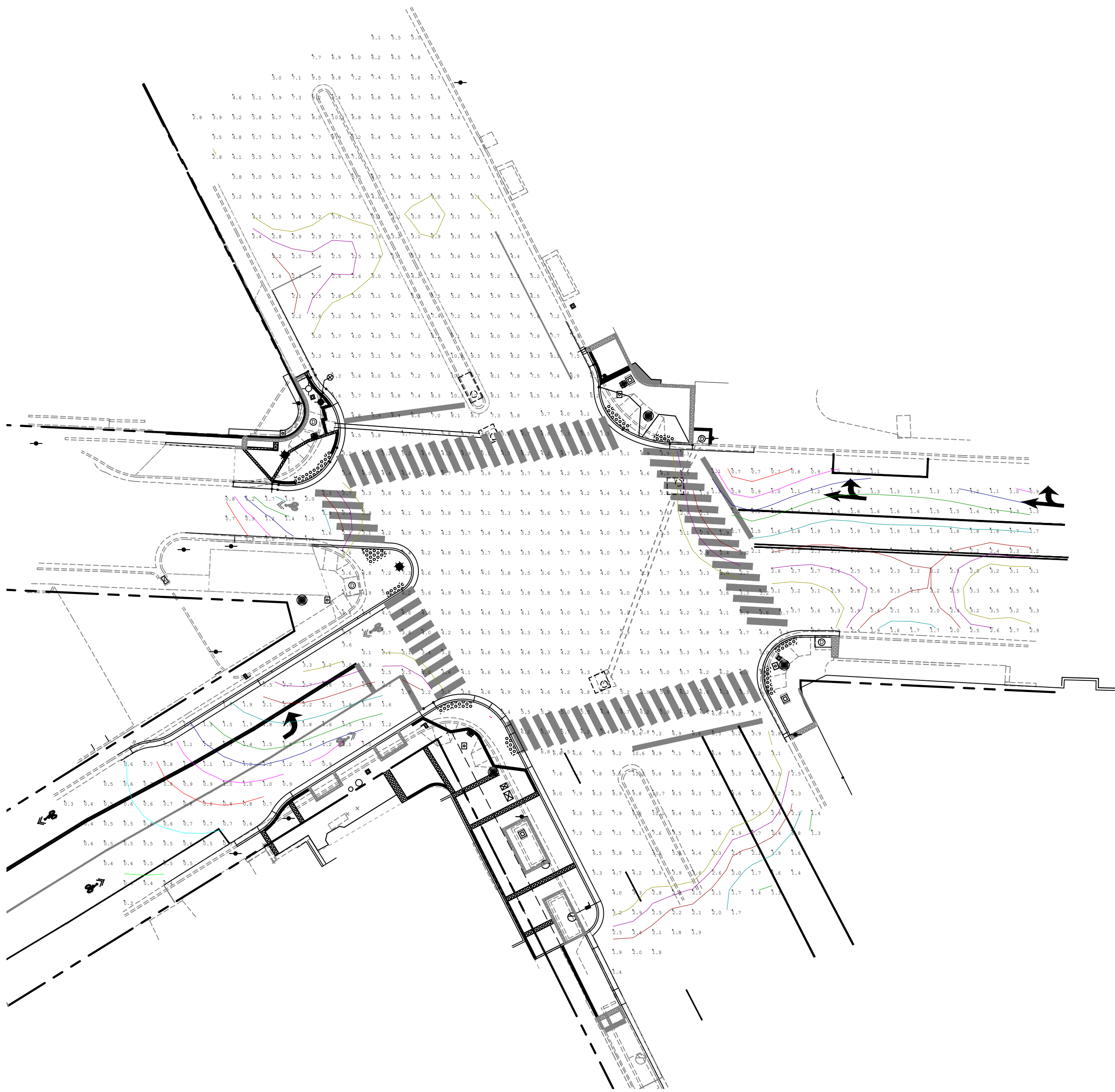
Plotted: August 04, 2020
Plotted by: Lawrence.Laynburd

Scale:

HOR. 1" = 25' VERT. N/A

Sheet

TS-6



North Pershing and Washington Boulevard							
Facility	Target			Proposed			Requirements Met?
	Avg	Avg/Min	Max/Min	Avg	Avg/Min	Max/Min	
7th Street Roadway	0.4	4	20	1.3	1.9	2.9	Yes
Intersection	1.3	4	20	4.3	2.7	5.4	Yes
North Pershing Drive	1.3	4	20	1.2	4.0	12.0	No
North Pershing Drive_East	1.3	4	20	2.0	2.9	5.4	Yes
Washington Blvd North Roadway	1.3	4	20	5.4	0.2	6.0	Yes
Washington Blvd South Roadway	1.3	4	20	4.9	3.8	8.6	Yes
Crosswalk_East Pershing	2.2	4	20	3	1.7	2.4	Yes
Crosswalk_North	2.2	4	20	5.3	1.4	1.8	Yes
Crosswalk_South	2.2	4	20	6.6	1.2	1.6	Yes
Crosswalk_West 7th	2.2	4	20	2.6	1.2	1.4	Yes
Crosswalk_West Pershing	2.2	4	20	3	1.6	2.3	Yes

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2		1.2	
0.3		1.4	
0.4		1.8	
0.6		2.2	
0.8		2.6	
1.0		3.0	

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SEAL

APPROVALS

	08/13/20
	08/13/20
	08/13/20

REVISIONS

REVISIONS	DATE

Project Name and Location

Traffic Signal Design

Streetlight Photometrics
Washington Blvd. Signal Upgrades
(TR08)

Designed: KF
Drawn: BA
Checked: GG
Miss Utility Transmittal #:

Plotted: August 04, 2020
Plotted by: Lawrence.Laynburd

Scale:
HOR. 1" = 25' VERT. N/A

Sheet

TS-7