



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 www.arlingtonva.us

Construction Drawings For: Traffic Signal Modification

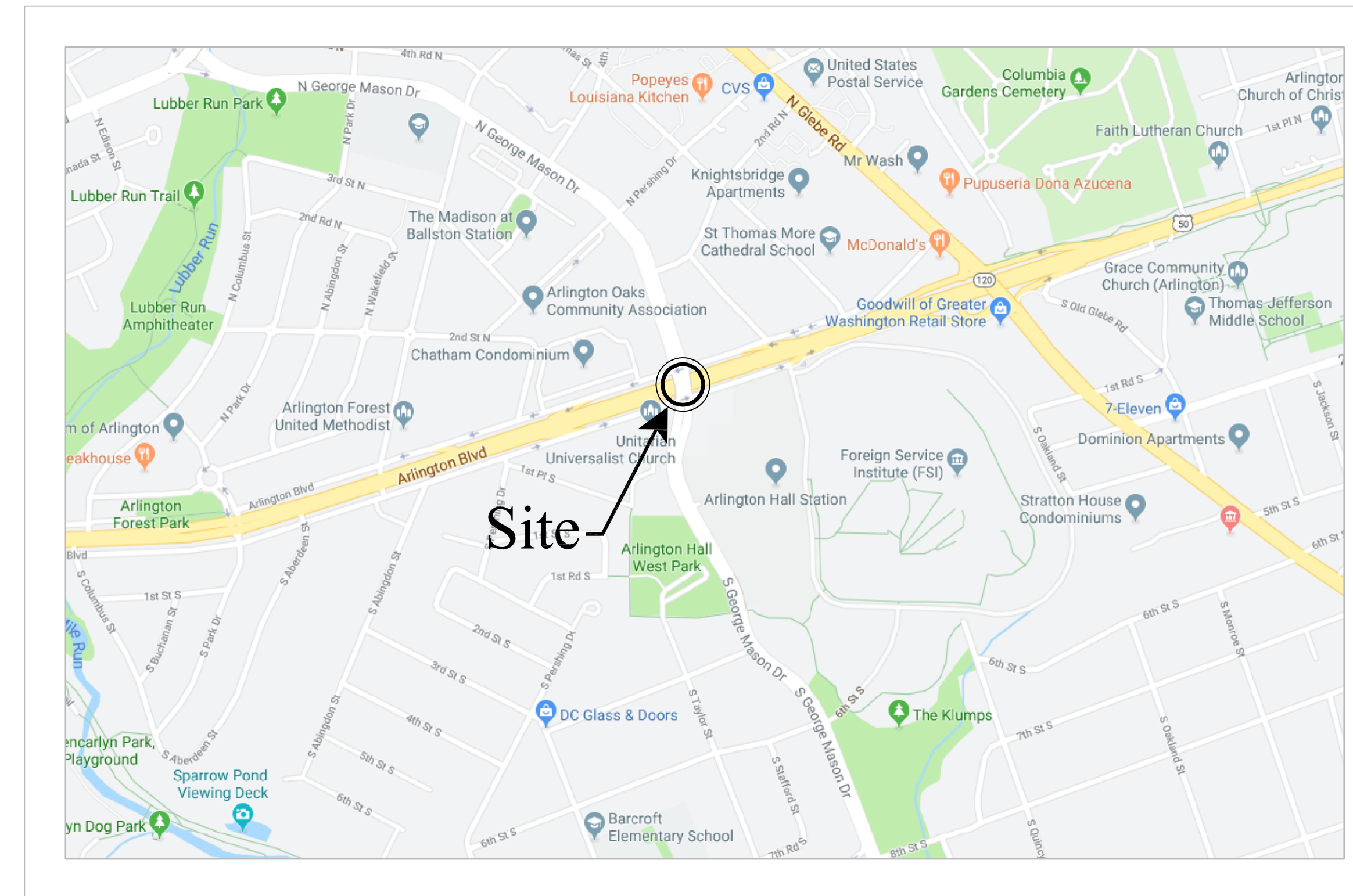
Route 50 (Arlington Blvd) and North/South George Mason Drive (TS#41)

Project Number: T08S

Location Map

Scale: N.T.S.

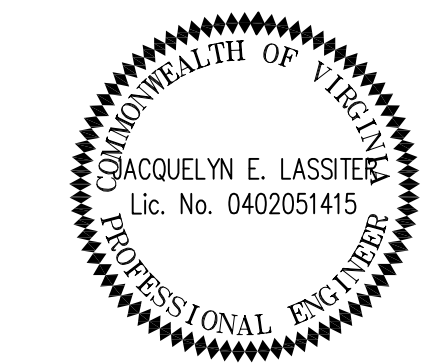
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DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
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SEAL



APPROVALS DATE

Table with 2 columns: Name/Title and Date. Includes approvals for Traffic Signal Engineer, Traffic Engineering Manager, Water/Sewer/Streets Bureau Chief, and Transportation Director.

REVISIONS DATE

Table with 2 columns: Description and Date. Multiple empty rows for revisions.

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 VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS, LATEST EDITION. ALL POLES SHALL HAVE SIX BOLT PATTERN.
4. THE COUNTY SHALL STAKE NEW POLE LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT SAROSH SALEEM AT 703-228-3402 TO SCHEDULE.
5. 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 EXISTING RIGHT-OF-WAY.
6. SIGNAL POLES AND MAST ARMS SHALL BE ORNAMENTAL OR NON-ORNAMENTAL. POLES DESIGNATED AS ORNAMENTAL SHALL BE TRAFFIC STANDARD WITH 6' LUMINAIRE ARM (BY UNION METAL OR APPROVED SUBSTITUTE) UNLESS SPECIFIED OTHERWISE. COBRA LIGHTING SHALL BE LED TYPE - (RFL-145W64LED4K-T-R2M-UNIV-DMG-RCD7-[USA-003]-BK). POLES DESIGNATED AS NON-ORNAMENTAL SHALL BE STANDARD ARLINGTON COUNTY POLES.

B. CONTROLLER AND FOUNDATION

- 1. NEW CONTROLLER CABINETS SHALL BE SIZE P44 AND POWDER COATED BLACK, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS. ADD GENERATOR AND POLICE PANEL WITH RJ-45 SWITCH PER THE ARLINGTON COUNTY STANDARDS.
2. CONTROLLER SHALL BE INTELLIGHT X-3 & 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 SECTIONS 13166 AND 13170.
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. THE COUNTY WILL INSTALL THE SYSTEM TIMINGS AND FINE TUNE AS NECESSARY.

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. EXISTING SIGNAL SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION.

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.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

- 1. ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS SECTIONS 13160 AND 13161. NEW JUNCTION BOX COVERS SHALL HAVE THE LETTERS "TRAFFIC" CAST IN THE TOP SURFACE DEPRESSION FOR ALL TRAFFIC SIGNAL RELATED JUNCTION BOXES CONTAINING CABLE WITH LESS THAN 50 VOLTS. TRAFFIC RELATED JUNCTION BOXES CONTAINING CABLE MORE THAN 50 VOLTS SHALL HAVE THE LETTERS "ARLINGTON COUNTY TRANSPORTATION". COMMUNICATION CABLE RELATED JUNCTION BOXES SHALL HAVE THE LETTERS "COMMUNICATIONS".
2. METER PEDESTAL SHALL MATCH 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 (3" STEEL) 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.
6. CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.
7. ALL CONDUITS PASSING BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND AVOIDING ALL UNDERGROUND UTILITIES DURING CONSTRUCTION ACTIVITIES.
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.
10. ALL INSTALLED CONDUITS SHALL HAVE PULL ROPE INSTALLED.

- 11. NEW LED SIGNS SHALL BE INSTALLED BASED ON MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL PROVIDE CABLE, MOUNTING BRACKET, AND TIME SWITCH ASSOCIATED WITH LED SIGN. TIME SWITCH SHALL CONTAIN A PROGRAMMABLE TIME CLOCK WITH MULTIPLE ON/OFFS.
12. ALL SIGNAL AND ELECTRICAL CONDUITS SHALL BE HDPE SCHEDULE 40. COMMUNICATIONS CABLE SHALL BE HDPE SCHEDULE 40.
13. ALL PROPOSED CONDUIT SHALL HAVE #6 AWG (EGC) FOR GROUNDING SYSTEM.
14. REMOVE ALL EXISTING UNUSED RISER, JUNCTION BOXES AND CABLES.
15. NO SPLICING OF SIGNAL CABLES SHALL BE PERMITTED.

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.
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 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.

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NOTE: ALL WORK TO BE DONE IN THE EXISTING RIGHT OF WAY.

I CERTIFY THAT THIS PROJECT WAS BUILT IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN, UNLESS DULY NOTED IN THE ABOVE REVISION BLOCK.

PROJECT MANAGER DATE
CONSTRUCTION MANAGER DATE

Project Name and Location

Traffic Signal Design

Cover Sheet
Arlington Boulevard & George Mason Drive
ID#41
T08S

Designed: AK
Drawn: AK
Checked: JEL
Miss Utility Transmittal #:

Plotted: May 03, 2021
Plotted by: KharkwA

Scale: N.T.S.

Sheet T-1

LINETYPE LEGEND

Table with columns: FEATURE, EXISTING, PROPOSED. Lists various features like BUILDING, CENTERLINE / BASELINE, COMMUNICATIONS CABLE, etc., with their corresponding line styles.

SYMBOL LEGEND

Table with columns: EXISTING FEATURE, PROPOSED FEATURE. Lists features like EX CABLE PEDESTAL, EX ELECTRIC BOX, EX FIRE HYDRANT, etc., with their corresponding symbols.

LABEL LEGEND

Table with columns: EXISTING, PROPOSED. Lists labels like EX SAN STRUC NO., EXISTING SANITARY STRUCTURE NUMBER, etc., with their corresponding label symbols.

HATCH LEGEND

Table with columns: EXISTING, PROPOSED. Lists hatching patterns for features like PROP MILL & OVERLAY, WORK - BY OTHERS, PROP 4" CONCRETE SIDEWALK, etc.

GENERAL CONSTRUCTION NOTES

- 1. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES...
3. ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL...
4. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES...
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA...
6. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE...
7. EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY...
8. THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.
9. THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES (TO INCLUDE CURB AND GUTTER) AND WATERWAYS FROM ADVERSE IMPACTS PER SECTION 01500 OF THE ARLINGTON COUNTY STANDARDS & SPECIFICATIONS.
10. ANY WORK WITHIN A RESOURCE PROTECTION AREA (RPA) SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 61 OF THE COUNTY CODE (THE CHESAPEAKE BAY PRESERVATION ORDINANCE).
11. 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).
12. NO TREES SHALL BE REMOVED OR OTHERWISE AFFECTED UNLESS CLEARLY MARKED ON THE APPROVED PLAN.

STORMWATER AND ENVIRONMENTAL PROTECTION

- 13. TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING.

TREE PROTECTION

- 14. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.

- 15. 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.

TRAFFIC CONTROL

- 16. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
17. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESS 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 ENGINEER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR (703-228-3049).
18. 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.

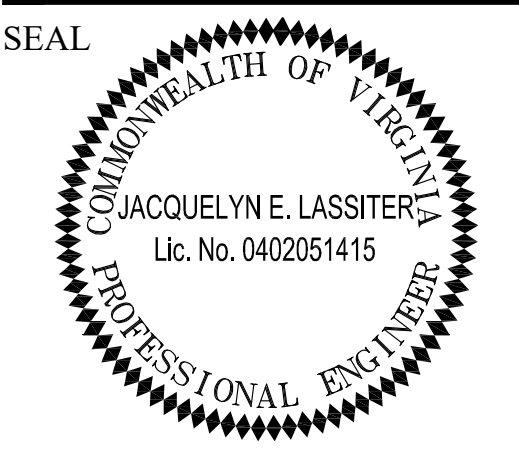
WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

- 19. UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE ENGINEER AT LEAST 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
20. IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE ENGINEER.
21. STORM OR SANITARY SEWERS AND APPURTENANCES TO BE ABANDONED SHALL BE EXCAVATED AND REMOVED, OR ABANDONED AS DETAILED IN THE COUNTY'S STANDARDS AND SPECIFICATIONS.
22. WHEN REQUIRED FOR THE WORK, AN APPROVED VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) PERMIT WILL BE PROVIDED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO AND IMPLEMENTING ALL PERMIT REQUIREMENTS.
23. THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE CERTIFIED BY VDOT IN BASIC WORK ZONE TRAFFIC CONTROL AND WILL BE RESPONSIBLE FOR THE PLACEMENT, MAINTENANCE AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS IN COMPLIANCE WITH THE PERMIT REQUIREMENTS AND CONDITIONS, THE APPROVED PLANS, SPECIFICATIONS, THE VIRGINIA WORK AREA PROTECTION MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
24. THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE WHO HAS COMPLETED VDOT EROSION AND SEDIMENT CONTROL CONTRACTOR CERTIFICATION TRAINING AND WILL BE RESPONSIBLE FOR INSURING COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS DURING ALL LAND DISTURBANCE ACTIVITIES.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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APPROVALS DATE

TRAFFIC SIGNAL ENGINEER: 06/21/21
TRAFFIC ENGINEERING MANAGER: 06/21/21
WATER, SEWER, STREETS BUREAU CHIEF: 07.16.2021
TERO BUREAU CHIEF: 06/22/2021
TRANSPORTATION DIRECTOR: 06/23/21

REVISIONS DATE

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Traffic Signal Design
Roadway Legend Sheet
Arlington Boulevard & George Mason Drive
ID#41

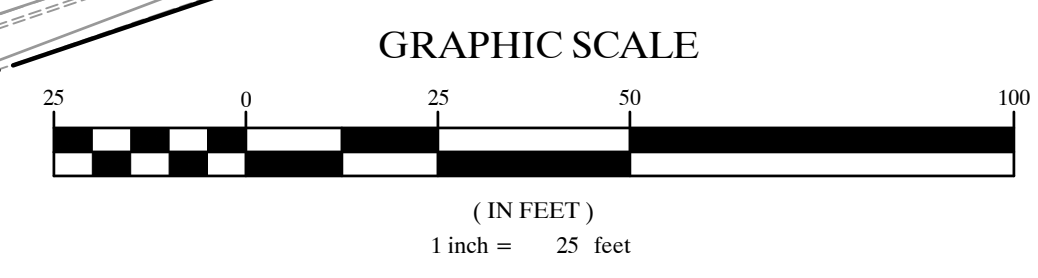
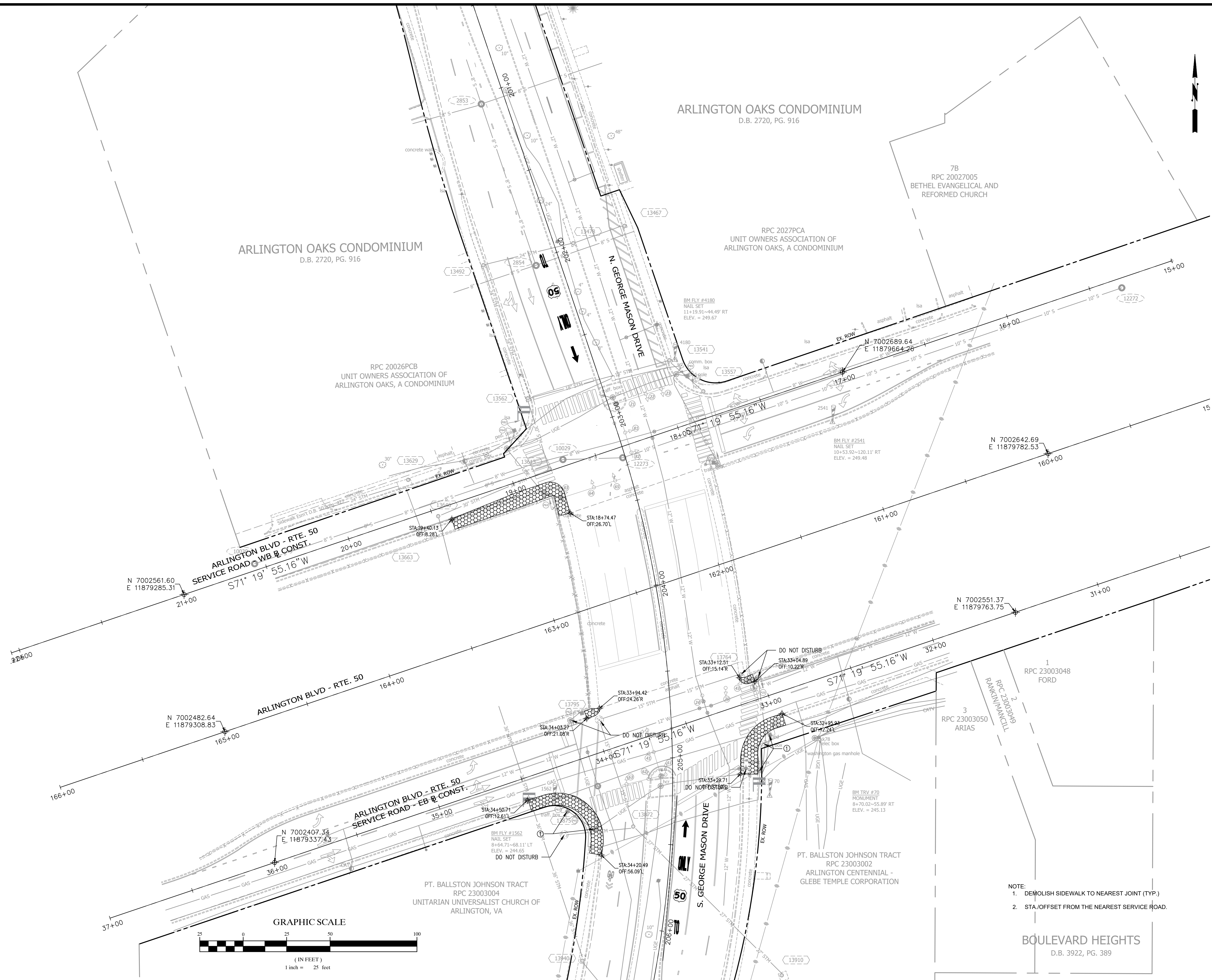
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Drawn: YT
Checked: MMH
Miss Utility Transmittal #:

Plotted: May 04, 2021
Plotted by: tangyq

Scale: N.T.S.

REVISED: MARCH 03, 2020

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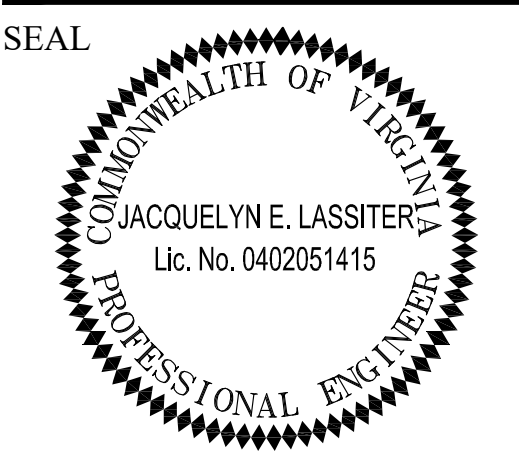


- NOTE:
1. DEMOLISH SIDEWALK TO NEAREST JOINT (TYP.)
 2. STA./OFFSET FROM THE NEAREST SERVICE ROAD.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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APPROVALS	DATE
<i>Jacquelyn E. Lassiter</i> TRAFFIC SIGNAL ENGINEER	06/21/21
<i>John N. Hubbs</i> TRAFFIC ENGINEERING MANAGER	06/21/21
<i>John N. Hubbs</i> WATER, SEWER, STREETS BUREAU CHIEF	07.16.2021
<i>John N. Hubbs</i> T&O BUREAU CHIEF	06/22/2021
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	06/23/21

REVISIONS	DATE

Project Name and Location
Traffic Signal Design
Existing Conditions & Demolition Plan
Arlington Boulevard & George Mason Drive
ID#41

Designed: YT
Drawn: YT
Checked: MWR
Miss Utility Transmittal #:

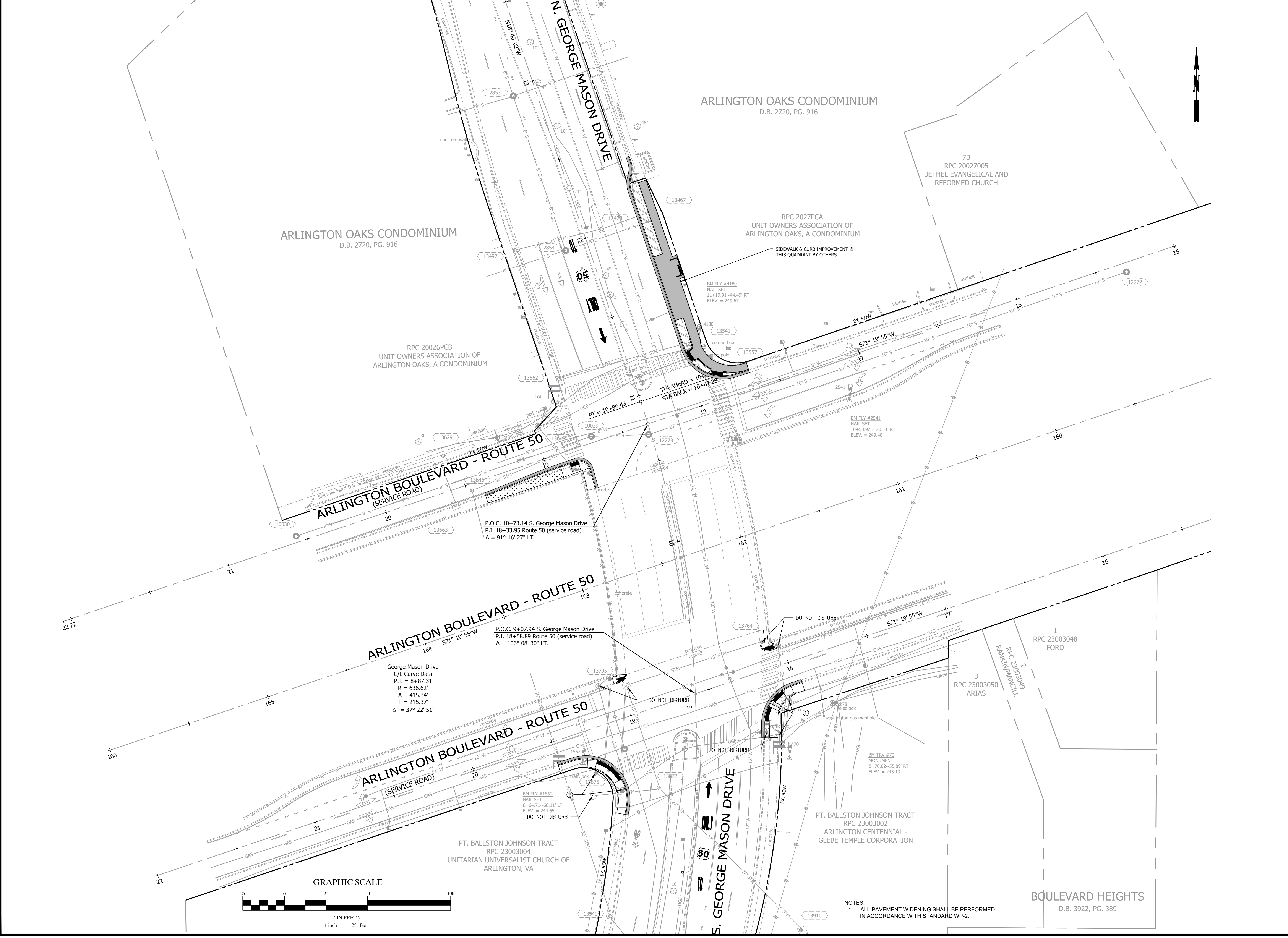
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Plotted by: tangyq

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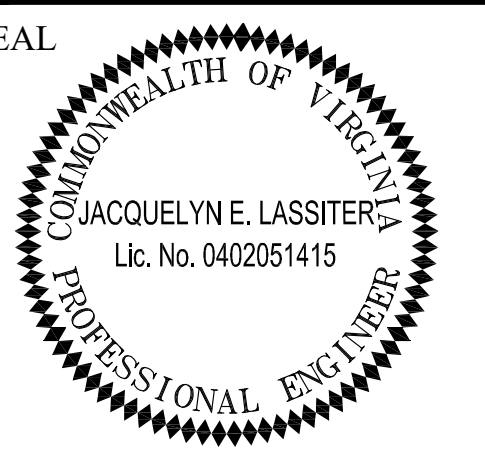
Sheet **C-2**

REVISED: MARCH 03, 2020

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 Transportation Engineering and Operations Bureau
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APPROVALS	DATE
<i>Jacquelyn E. Lassiter</i> TRAFFIC SIGNAL ENGINEER	06/21/21
<i>John N. White</i> TRAFFIC ENGINEERING MANAGER	06/21/21
<i>Shirley J. ...</i> WATER, SEWER, STREETS BUREAU CHIEF	07.16.2021
<i>...</i> TE&O BUREAU CHIEF	06/22/2021
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	06/23/21

REVISIONS	DATE

Project Name and Location
Traffic Signal Design
 Proposed Conditions Layout
 Arlington Boulevard & George Mason Drive
 ID#41

Designed: YT
 Drawn: YT
 Checked: MWR
 Miss Utility Transmittal #:

Plotted: May 04, 2021
 Plotted by: tangyq

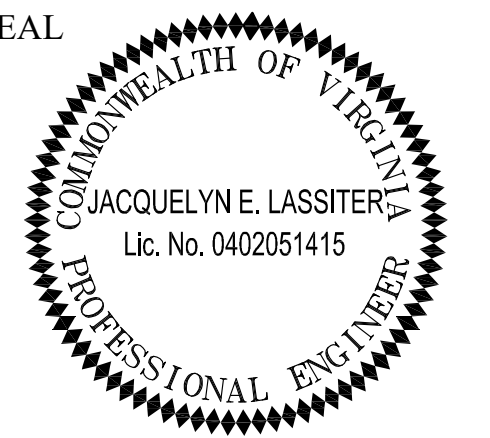
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Sheet **C-3**

NOTES:
 1. ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD WP-2.

Route 50 (Arlington Boulevard) and North/South George Mason Drive

SEAL



APPROVALS DATE

<i>Jacquelyn E. Lassiter</i>	06/21/21
TRAFFIC SIGNAL ENGINEER	
<i>John Hubbs</i>	06/21/21
TRAFFIC ENGINEERING MANAGER	
<i>Quinn</i>	07.16.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John</i>	06/22/2021
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	06/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

Traffic Signal Design

Curb Ramp Plan
Arlington Boulevard & George Mason Drive
ID#41
TWS

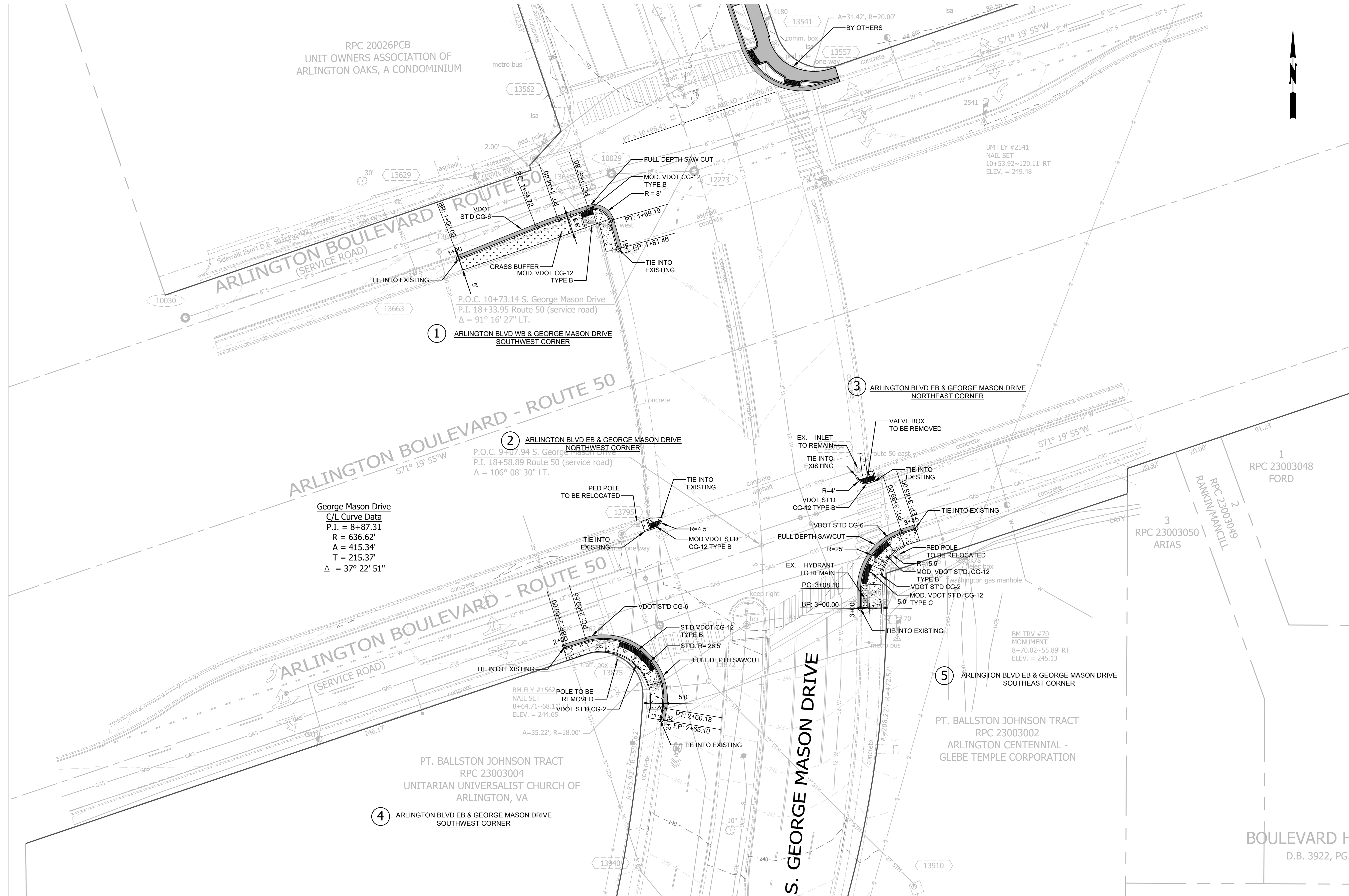
Project Name and Location

Designed: YT
Drawn: YT
Checked: MMH
Miss Utility Transmittal #:

Plotted: May 04, 2021
Plotted by: tangyq

Scale: 1"= 20'

Sheet
C-4



RPC 20026PCB
UNIT OWNERS ASSOCIATION OF
ARLINGTON OAKS, A CONDOMINIUM

ARLINGTON BOULEVARD - ROUTE 50
71° 19' 55"W

George Mason Drive
C/L Curve Data
P.I. = 8+87.31
R = 636.62'
A = 415.34'
T = 215.37'
Δ = 37° 22' 51"

1 ARLINGTON BLVD WB & GEORGE MASON DRIVE
SOUTHWEST CORNER

2 ARLINGTON BLVD EB & GEORGE MASON DRIVE
NORTHWEST CORNER

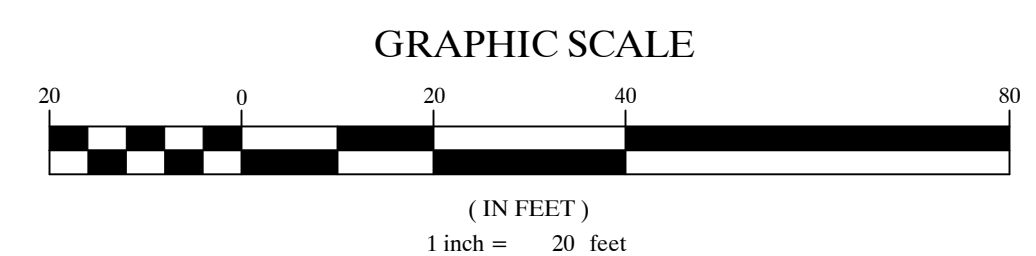
3 ARLINGTON BLVD EB & GEORGE MASON DRIVE
NORTHEAST CORNER

4 ARLINGTON BLVD EB & GEORGE MASON DRIVE
SOUTHWEST CORNER

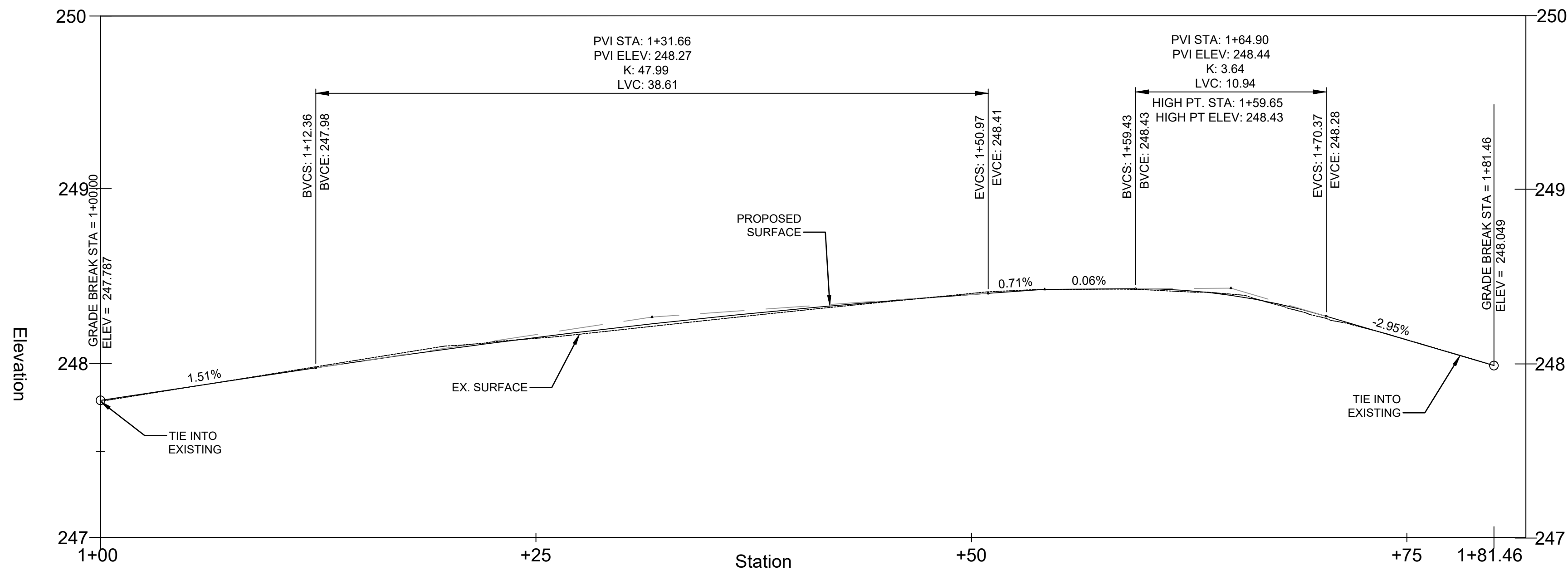
5 ARLINGTON BLVD EB & GEORGE MASON DRIVE
SOUTHEAST CORNER

BOULEVARD H
D.B. 3922, PG.

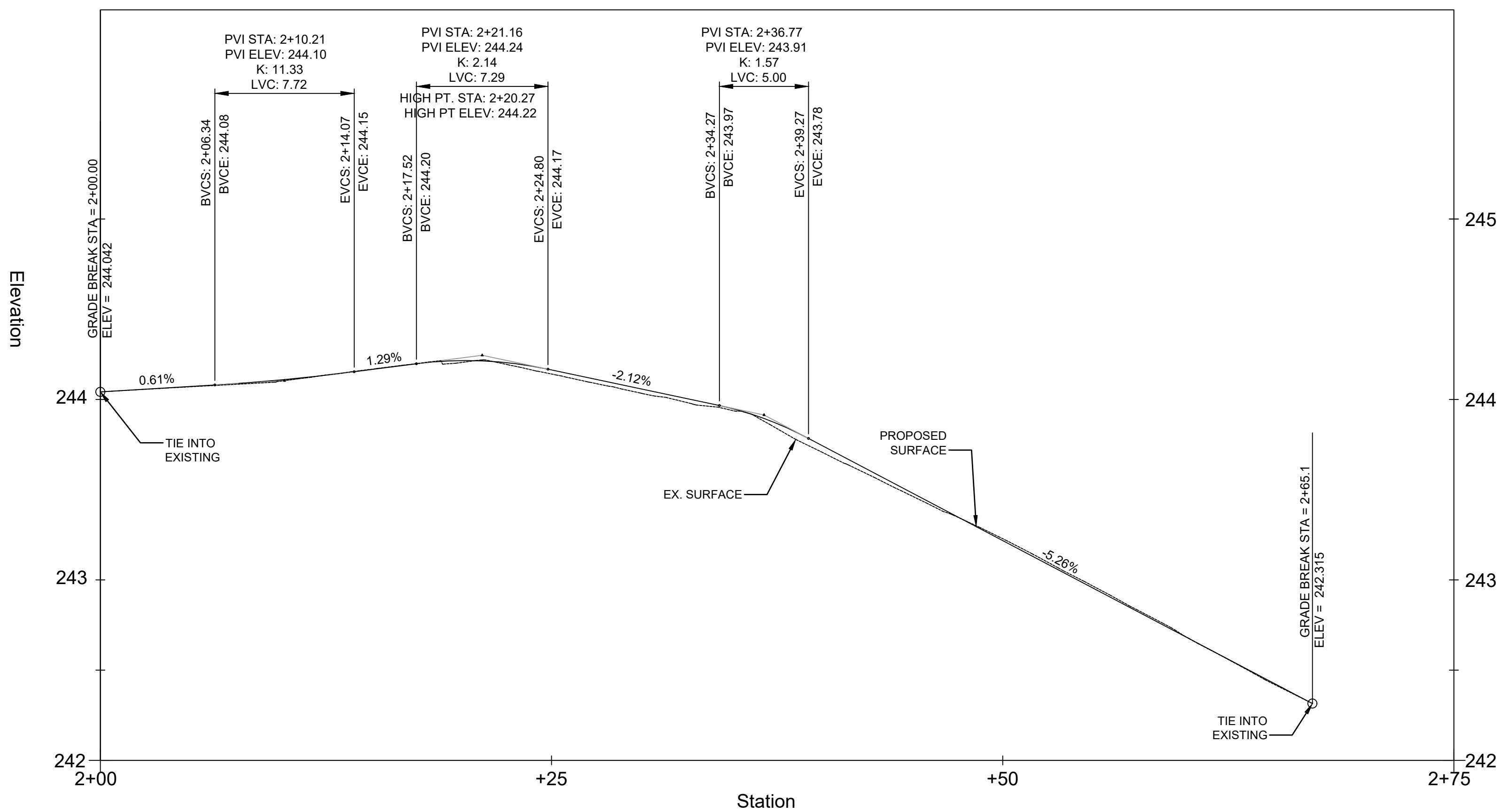
- NOTE:
- ALL MANHOLE AND OTHER COVERS IN THE PEDESTRIAN PATHS WITHIN THE PROJECT AREA SHALL BE READJUSTED OR REPLACED WITH ADA COMPLIANT COVERS PER ARLINGTON COUNTY CONSTRUCTION STANDARDS DETAILS.
 - SEE SHEET C - 6 FOR SIDEWALK AND CURB RAMP DETAILS.
 - ALL STATION/OFFSET ARE FROM THE NEAREST SERVICE ROAD.
 - ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD WP-2



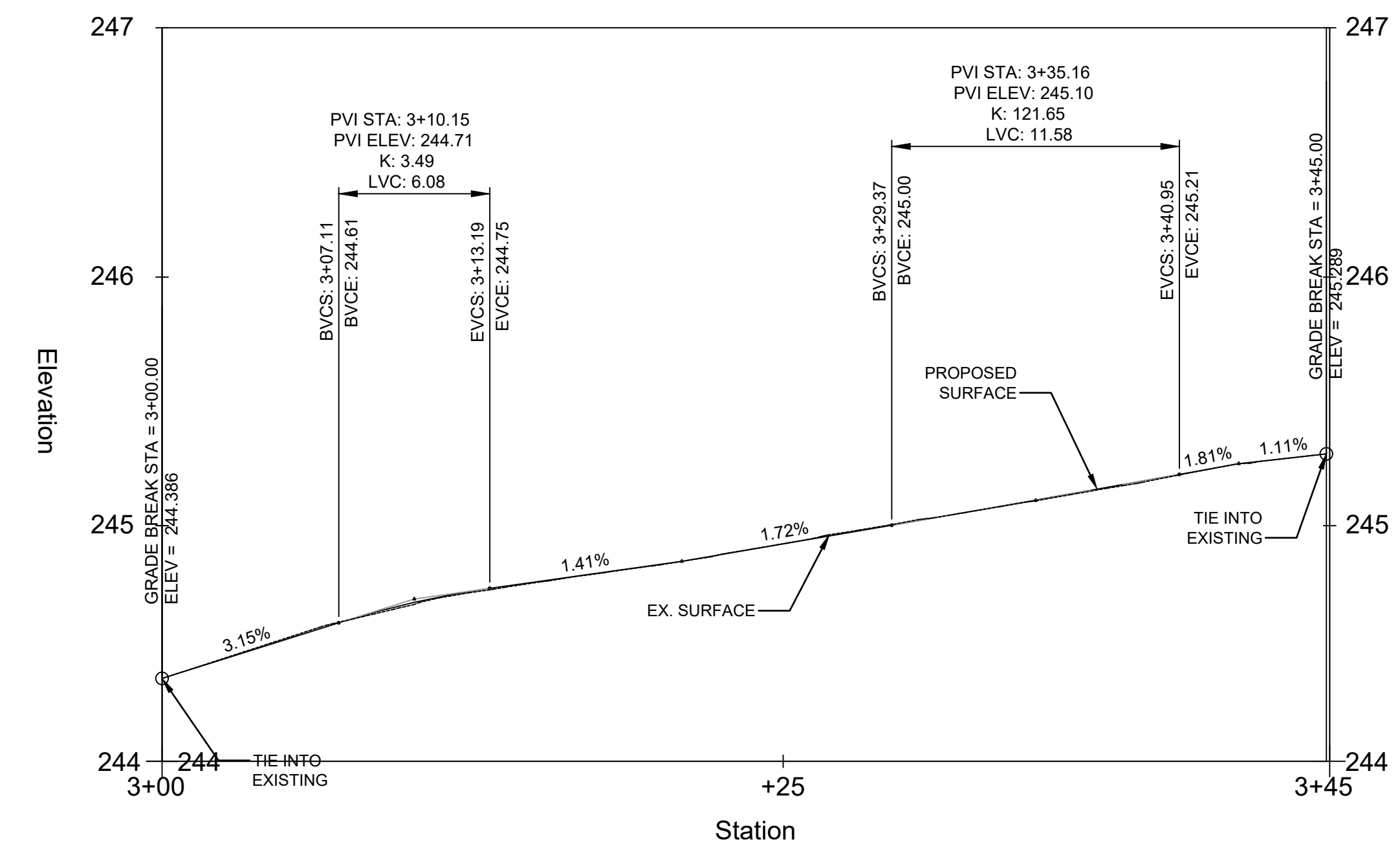
① ARLINGTON BLVD WB & GEORGE MASON DRIVE
SOUTHWEST CORNER PROFILE
SCALE 1:5



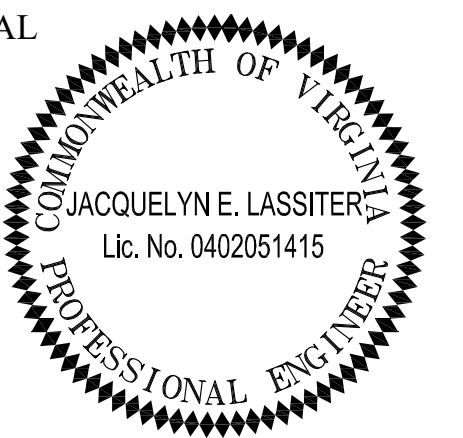
④ ARLINGTON BLVD EB & GEORGE MASON DRIVE
SOUTHWEST CORNER PROFILE
SCALE 1:5



⑤ ARLINGTON BLVD EB & GEORGE MASON DRIVE
SOUTHWEST CORNER PROFILE
SCALE 1:5



SEAL



APPROVALS DATE

<i>[Signature]</i>	06/21/21
TRAFFIC SIGNAL ENGINEER	
<i>[Signature]</i>	06/21/21
TRAFFIC ENGINEERING MANAGER	
<i>[Signature]</i>	07.16.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	06/22/2021
TE&O BUREAU CHIEF	
<i>[Signature]</i>	06/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

Project Name and Location

Traffic Signal Design
Curb Ramp Profiles
Arlington Boulevard & George Mason Drive
ID#41
TWS

Designed: YT
Drawn: YT
Checked: MMH
Miss Utility Transmittal #:

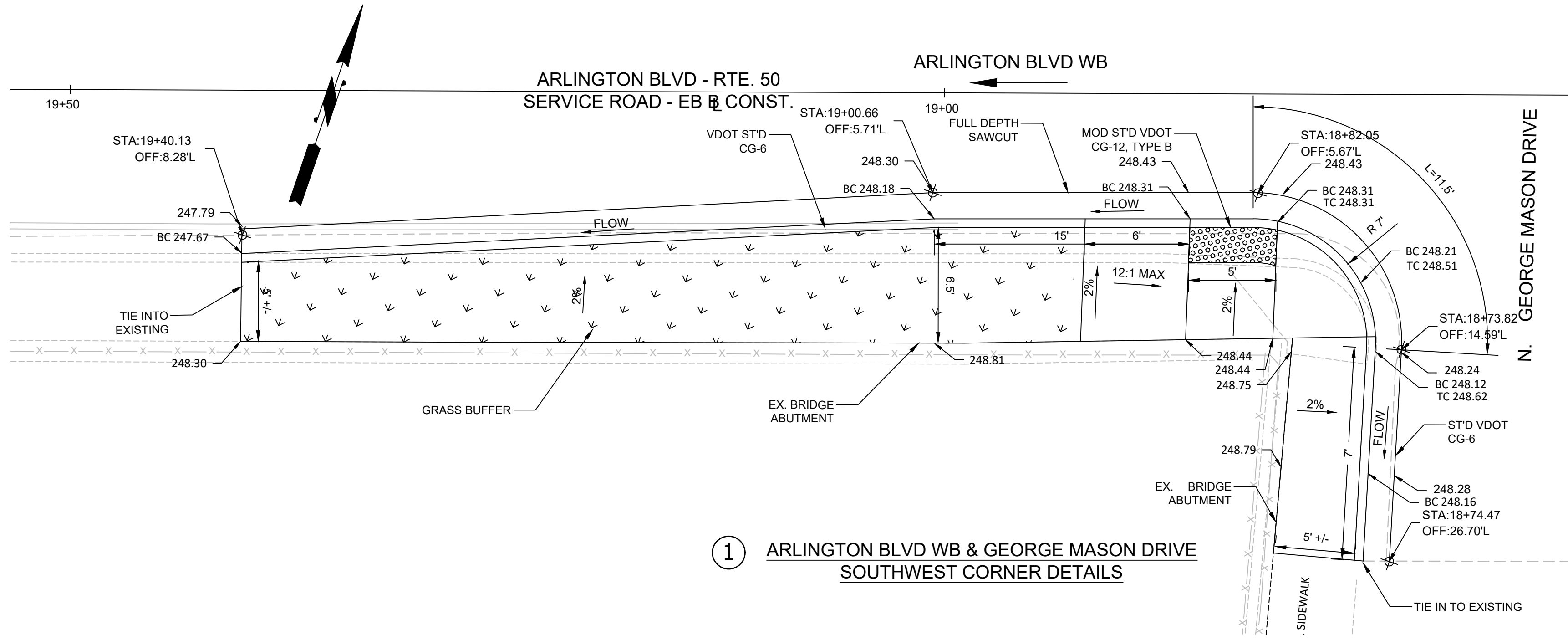
Plotted: May 04, 2021
Plotted by: tangyq

Scale: HORIZ: 1" = 1'
VERT.: 1" = 5'

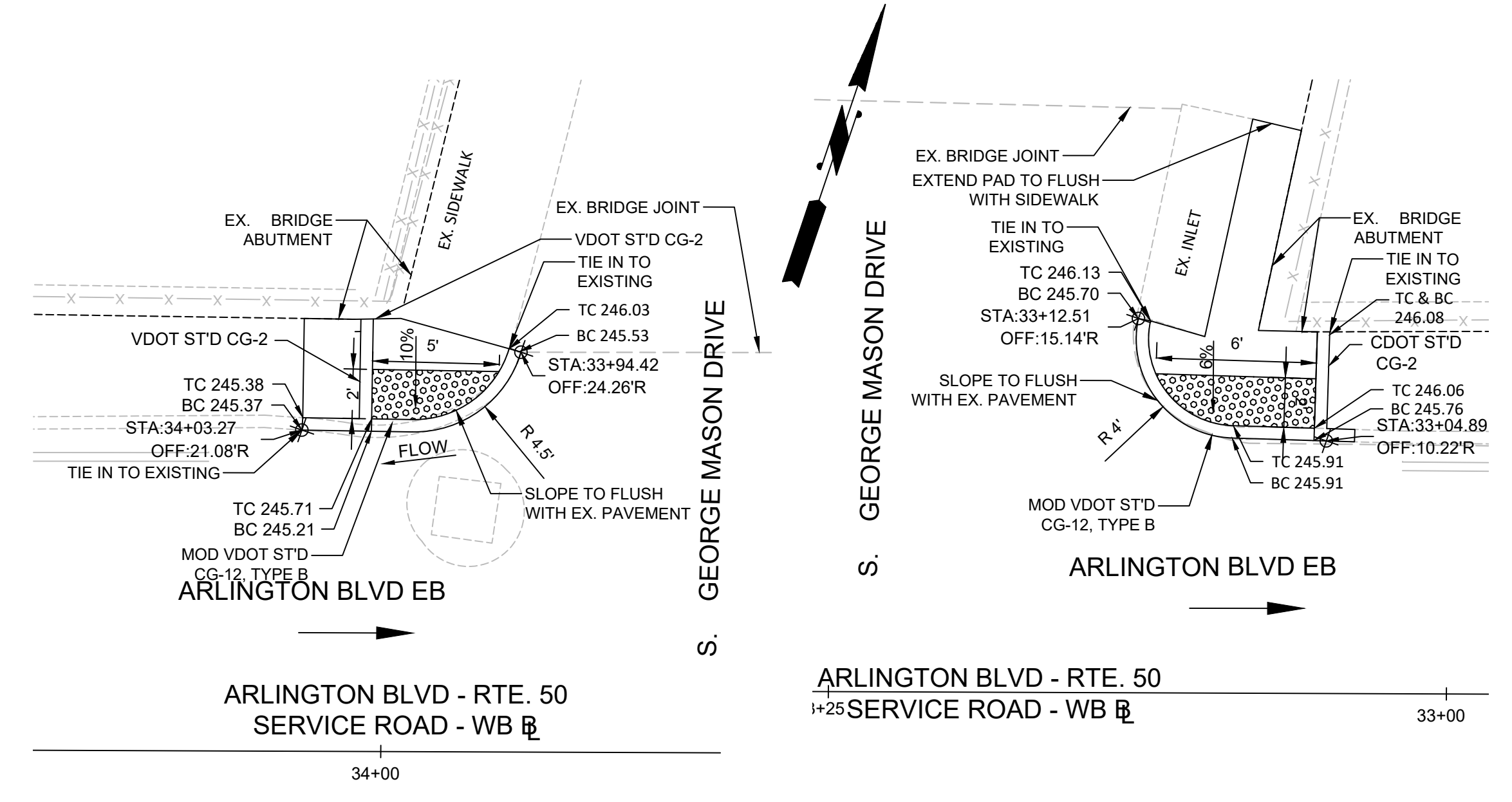
Sheet

C-5

REVISED: MARCH 03, 2020

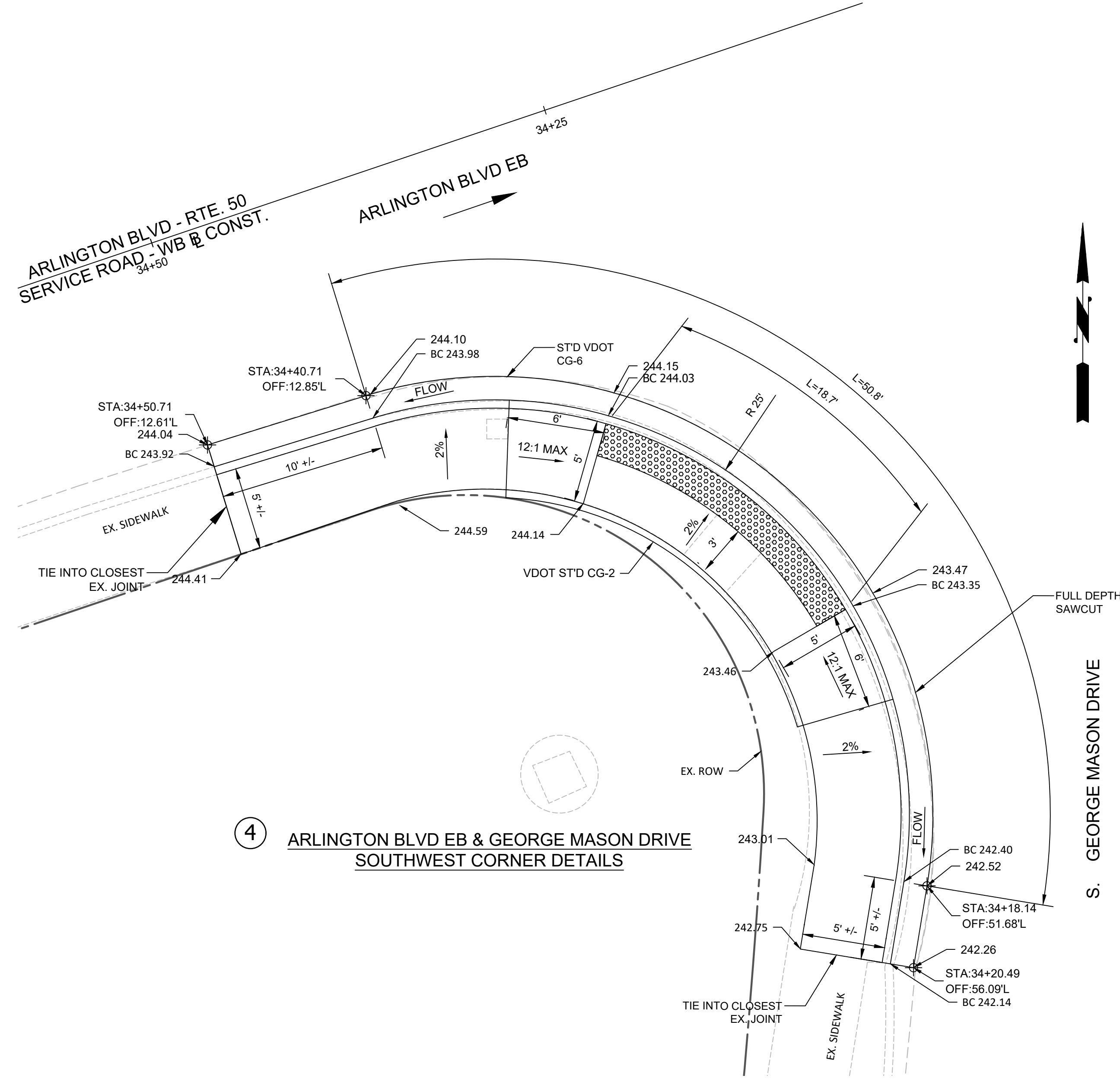


1 ARLINGTON BLVD WB & GEORGE MASON DRIVE
SOUTHWEST CORNER DETAILS

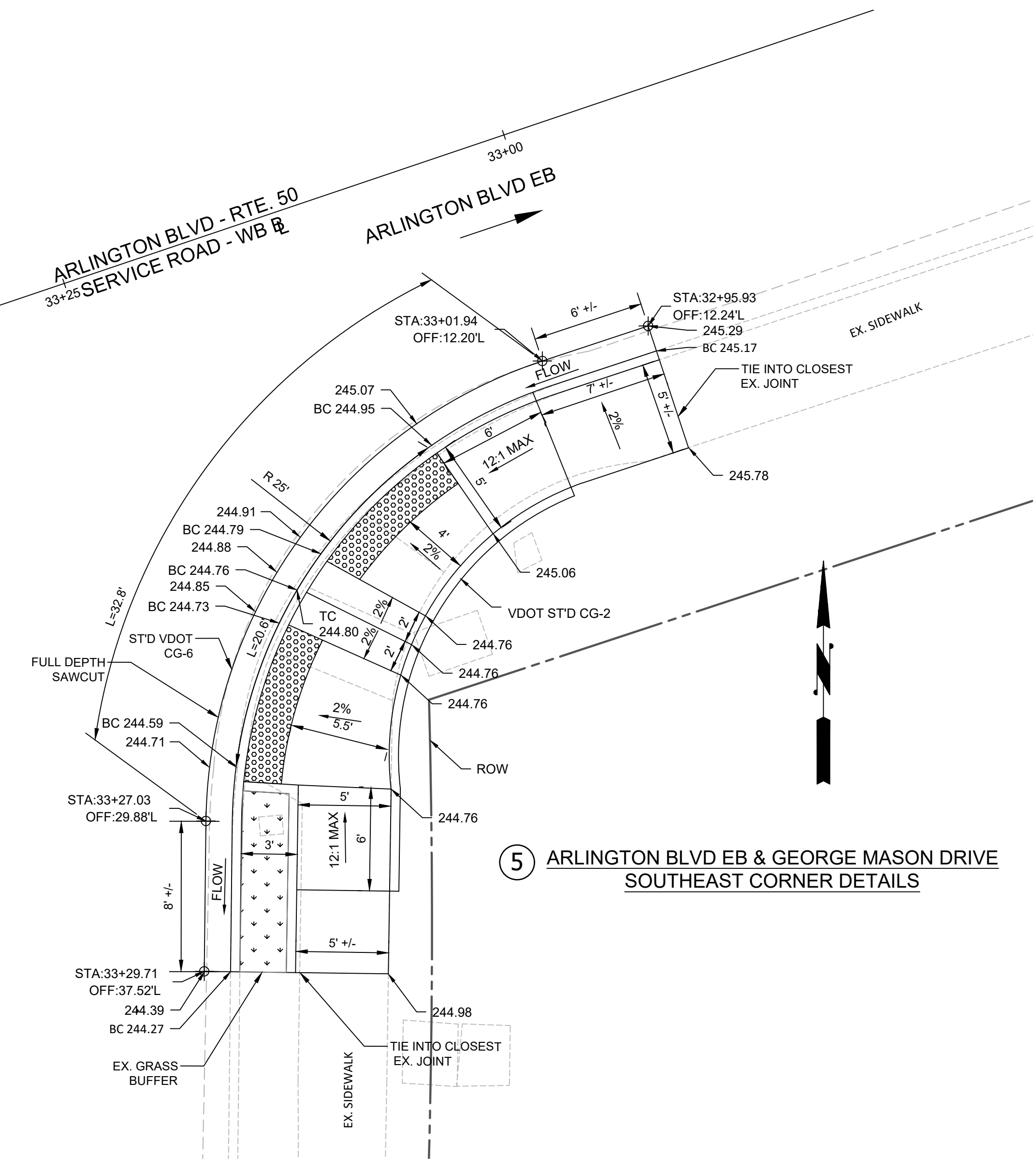


2 ARLINGTON BLVD EB & GEORGE MASON DRIVE
NORTHWEST CORNER DETAILS

3 ARLINGTON BLVD EB & GEORGE MASON DRIVE
NORTHEAST CORNER DETAILS

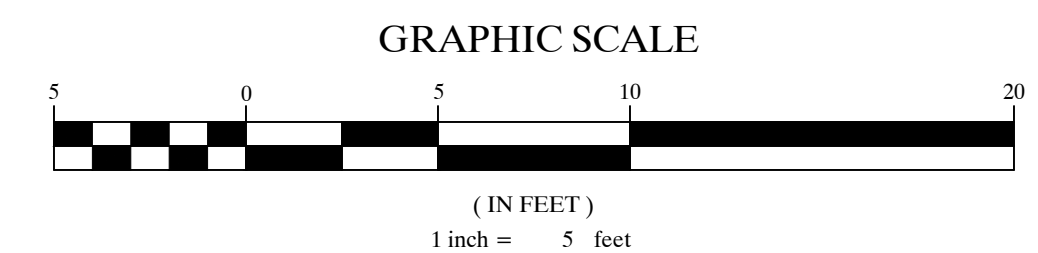


4 ARLINGTON BLVD EB & GEORGE MASON DRIVE
SOUTHWEST CORNER DETAILS



5 ARLINGTON BLVD EB & GEORGE MASON DRIVE
SOUTHWEST CORNER DETAILS

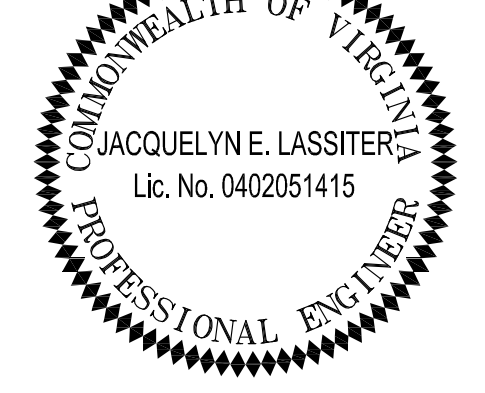
NOTE:
 1. STATION AND OFFSET ARE FROM THE NEAREST SERVICE ROAD.
 2. ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD WP-2.



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

<i>[Signature]</i>	06/21/21
TRAFFIC SIGNAL ENGINEER	
<i>[Signature]</i>	06/21/21
TRAFFIC ENGINEERING MANAGER	
<i>[Signature]</i>	07.16.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	06/22/2021
TE&O BUREAU CHIEF	
<i>[Signature]</i>	06/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

Traffic Signal Design

Curb Ramp Details
 Arlington Boulevard & George Mason Drive
 ID#41
 TS08S

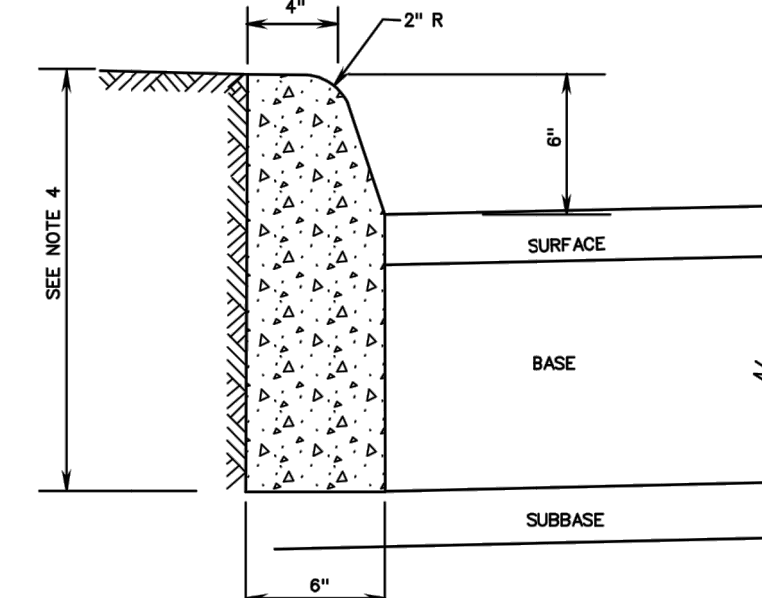
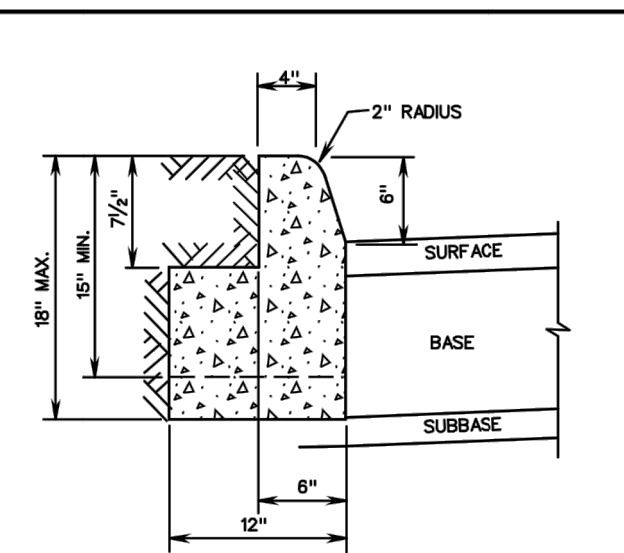
Designed: YT
 Drawn: YT
 Checked: MWR
 Miss Utility Transmittal #:

Plotted: May 04, 2021
 Plotted by: tangyq

Scale: 1" = 5'

Sheet C-6

- NOTES:**
1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
 2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
 3. CURB HAVING A RADIUS OF 300 FEET OR LESS ALONG FACE OF CURB WILL BE PAD FOR AS RADIAL CURB.
 4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (6" DEPTH) OR INCREASED AS MUCH AS 3" (6" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE, THE DEPTH IS TO BE "AS SHOWN" NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
 5. CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-4 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL, IN THE SECTION ON CS URBAN STANDARDS.

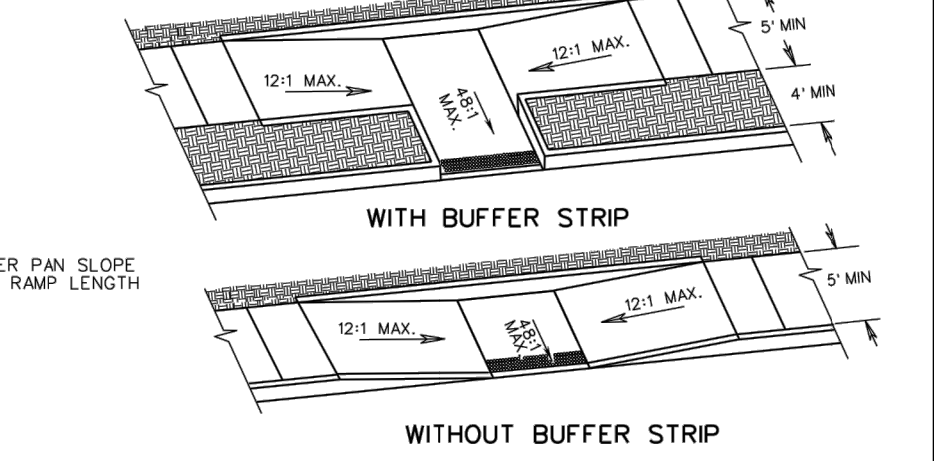
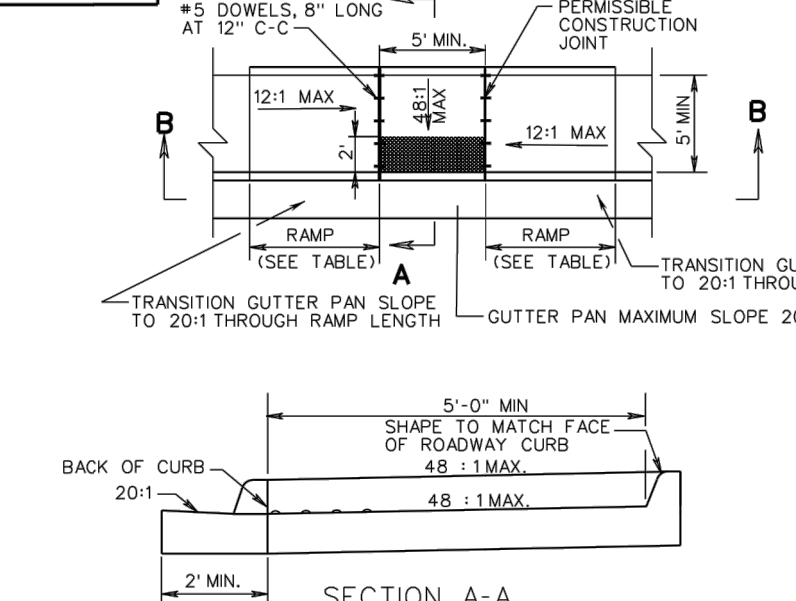


ACCEPTABLE ALTERNATIVE IF CURB IS EXTRUDED

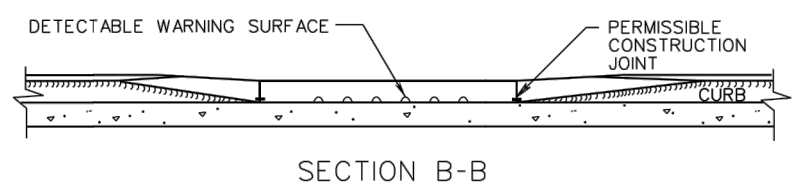
STANDARD 6" CURB

VDOT
ROAD AND BRIDGE STANDARDS
REVISION DATE SHEET 1 OF 1
2010

SPECIFICATION REFERENCE	105 502
-------------------------	------------



EXAMPLE INSTALLATION METHODS - SEE PLANS FOR LAYOUT



- NOTES:**
1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
 2. THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.
 3. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
 4. DIAGONAL PLACEMENT IS NOT PERMITTED.

TYPE B PARALLEL APPLICATION

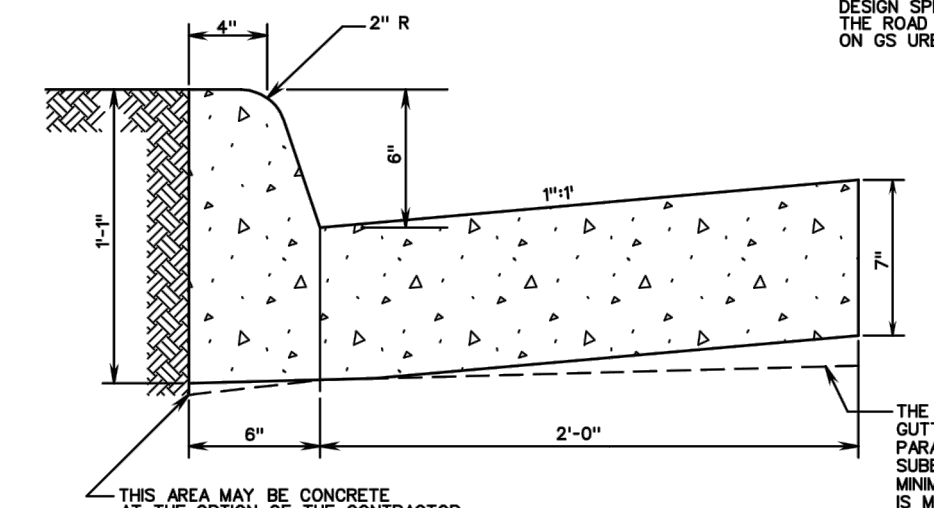
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	6" CURB
0	4	4	6
1	5	7	8
2	5	8	9
3	6	9	10
4	8	12	12
5	10	15	15
6	15	15	15

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 1 OF 5 REVISION DATE

CG-12 DETECTABLE WARNING SURFACE TYPE B (PARALLEL) APPLICATION

SPECIFICATION REFERENCE	105 502
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- NOTES:**
1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
 2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
 3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS ALONG FACE OF CURB SHALL BE PAD FOR AS RADIAL COMBINATION CURB & GUTTER.
 4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
 5. ALLOWABLE CRITERIA FOR THE USE OF CG-6 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL, IN THE SECTION ON CS URBAN STANDARDS.



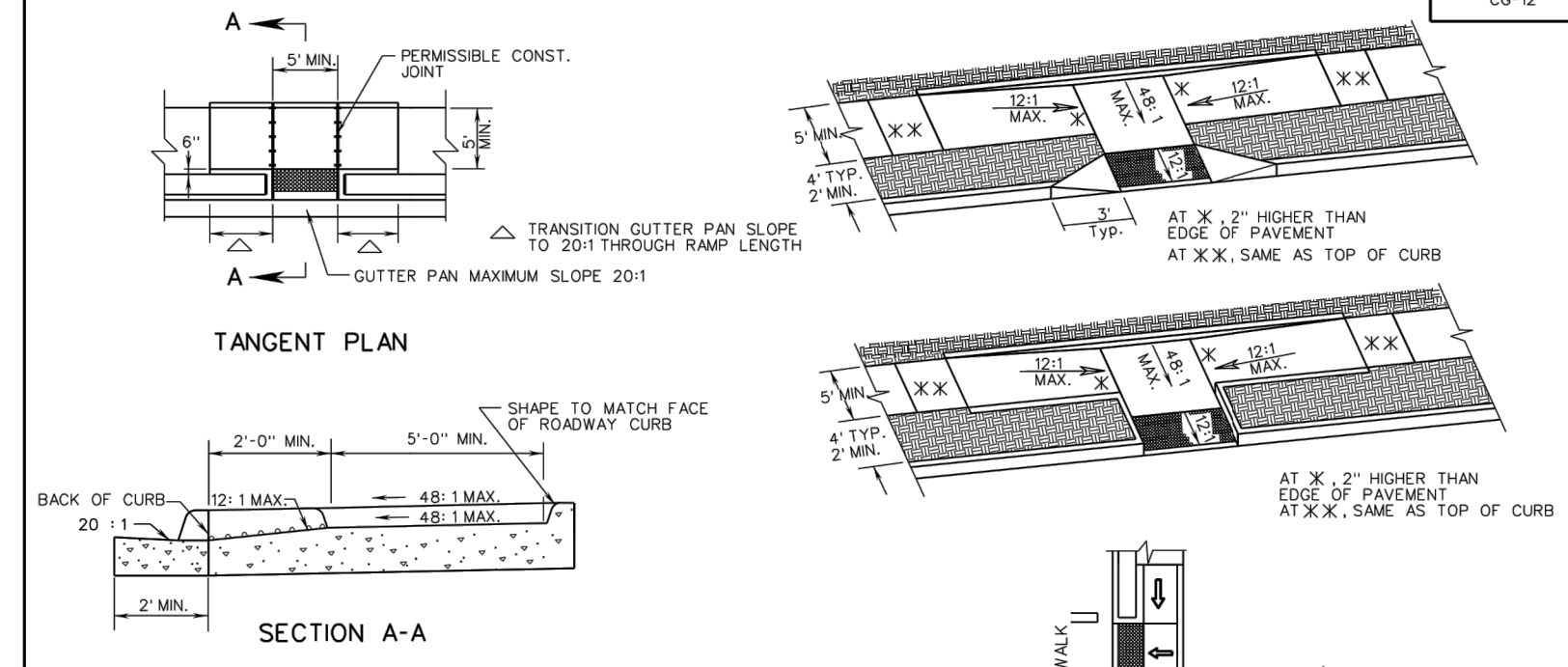
THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES PROVIDED A MINIMUM DEPTH OF 7" IS MAINTAINED.

COMBINATION 6" CURB AND GUTTER

VDOT
ROAD AND BRIDGE STANDARDS
REVISION DATE SHEET 1 OF 1
2010

SPECIFICATION REFERENCE	105 502
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VDOT
VIRGINIA DEPARTMENT OF TRANSPORTATION
2016 ROAD & BRIDGE STANDARDS



TYPE C PARALLEL & PERPENDICULAR APPLICATION

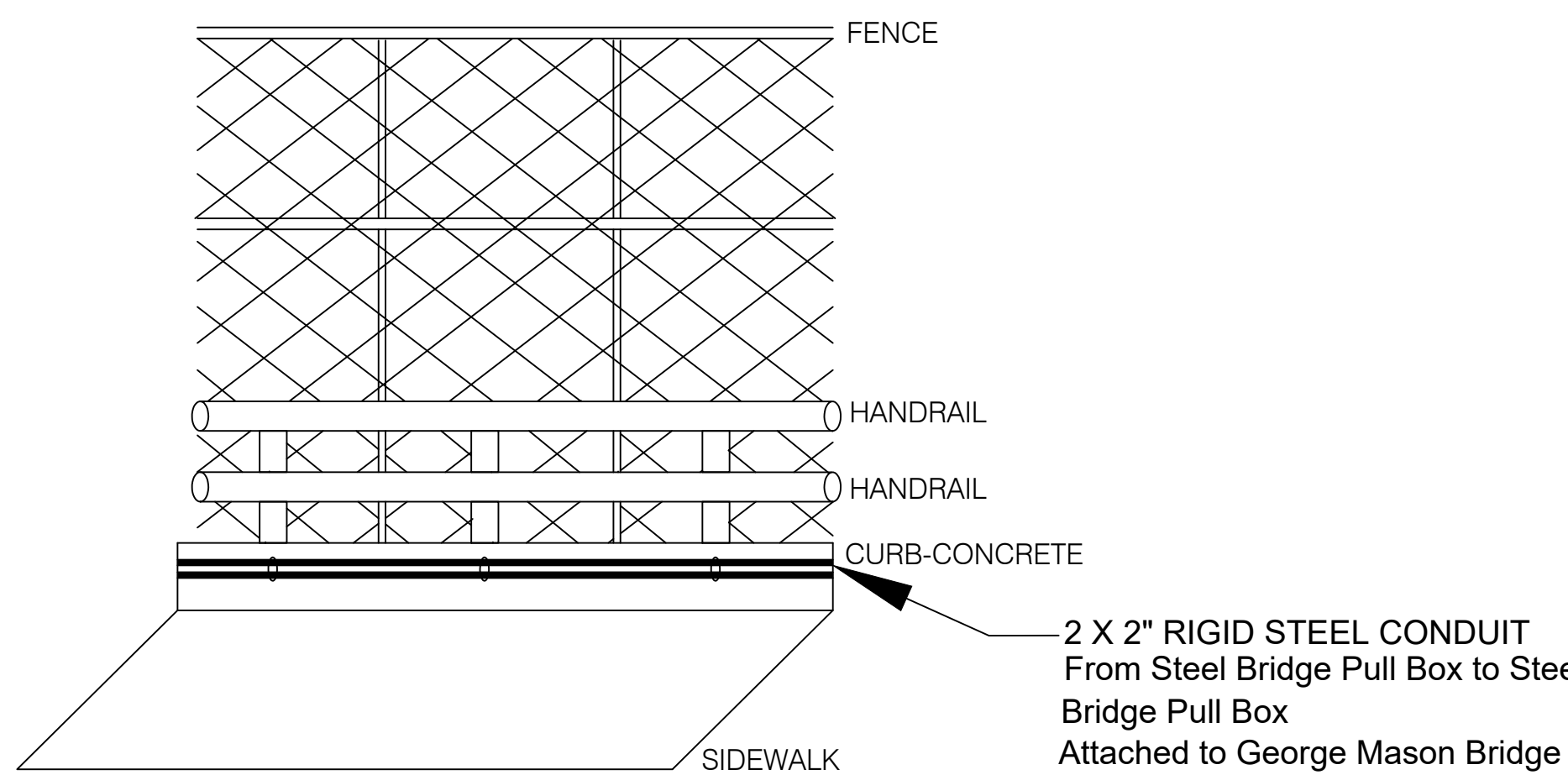
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	6" CURB
0	2	4	6
1	2	5	7
2	3	5	8
3	3	6	9
4	4	6	10
5	5	7	10
6	7	14	14
7	13	15	15
8	15	15	15

- NOTES:**
1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
 2. THE SELECTION OF CURB TYPE AND THE CONFIGURATION OF THE BUFFER STRIP MAY VARY TO MEET EXISTING FIELD CONDITIONS AND ROADWAY GEOMETRICS PROVIDING THE DIMENSIONS AND SLOPES ARE AS NOTED.
 3. THIS COMBINED (PARALLEL & PERPENDICULAR) DESIGN CAN BE USED WITH ADJOINING BUFFER STRIP LANDING AT BOTTOM OF TWO SLOPING SIDES WITH 2' X 5' MIN. DIMENSIONS. THE SHORT PERPENDICULAR RAIL TO THE STREET CAN BE PROTECTED BY A LANDSCAPED SETBACK OR CONNECTED TO THE SIDEWALK WITH A WARPED SURFACE.
 4. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
 5. DIAGONAL PLACEMENT IS NOT PERMITTED.

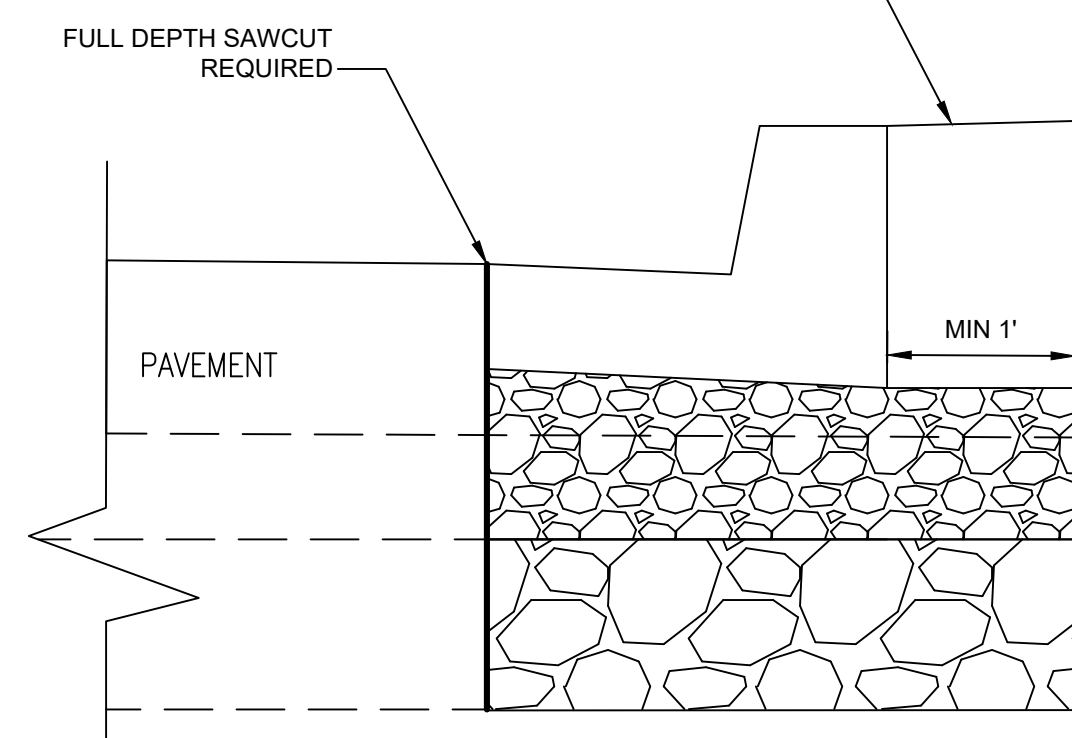
A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.
CG-12 DETECTABLE WARNING SURFACE TYPE C (PARALLEL & PERPENDICULAR) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT
ROAD AND BRIDGE STANDARDS
REVISION DATE SHEET 4 OF 5
04/19 204.04

SPECIFICATION REFERENCE	105 502
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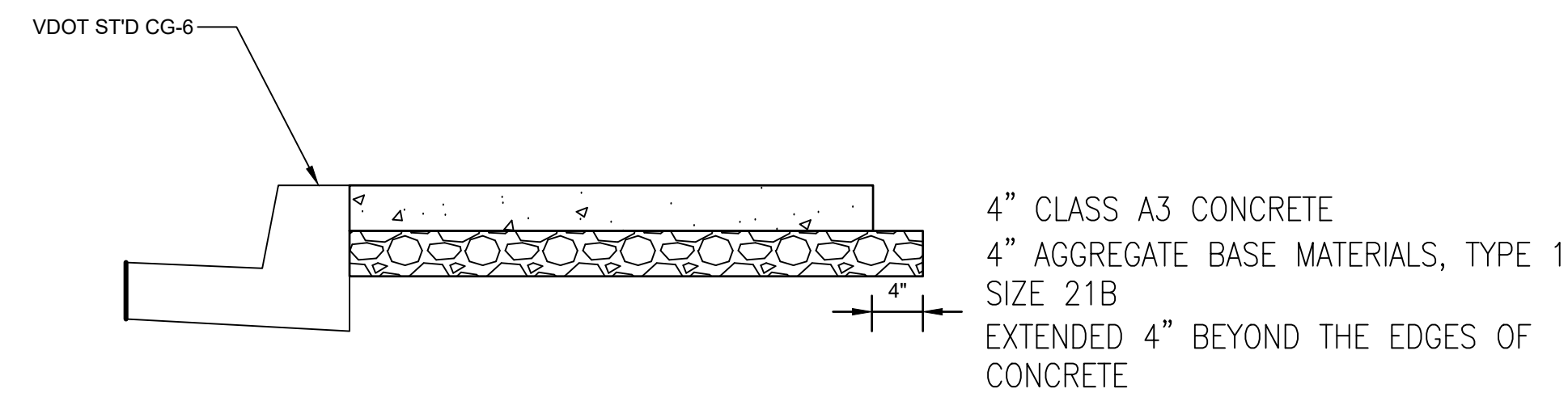
DETAIL FOR RIGID STEEL CONDUIT ATTACHED TO BRIDGE



CURB AND GUTTER - VDOT STD. CG-6

BASE - MIN 6" AGGREGATE BASE MATERIAL, TYPE 1, SIZE NO. 21B. EXTEND MIN 1' BEYOND THE CURB AND GUTTER

SUBBASE - MIN 12" AGGREGATE BASE MATERIAL, TYPE 1, SIZE NO. 21B OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE, WHICHEVER IS GREATER.



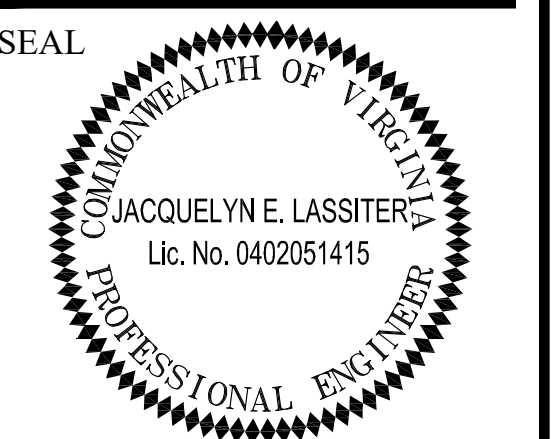
SIDEWALK SECTION DETAIL NOT TO SCALE

CURB AND GUTTER SECTION DETAIL NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS DATE

Jacquelyn E. Lassiter 06/21/21
TRAFFIC SIGNAL ENGINEER
John Hubbs 06/21/21
TRAFFIC ENGINEERING MANAGER
Denise M. Leach 07.16.2021
WATER, SEWER, STREETS BUREAU CHIEF
Denise M. Leach 06/22/2021
TE&O BUREAU CHIEF
Denise M. Leach 06/23/21
TRANSPORTATION DIRECTOR

REVISIONS DATE

NO.	DESCRIPTION	DATE

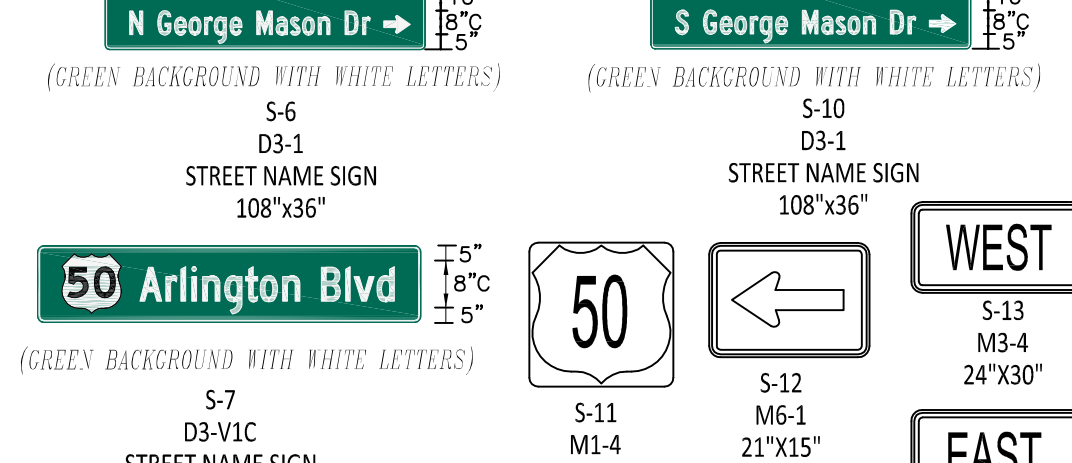
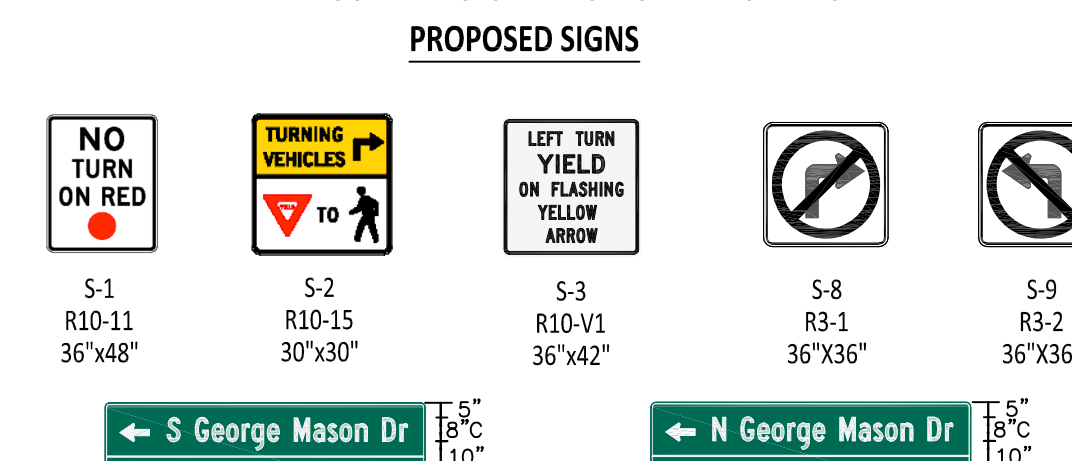
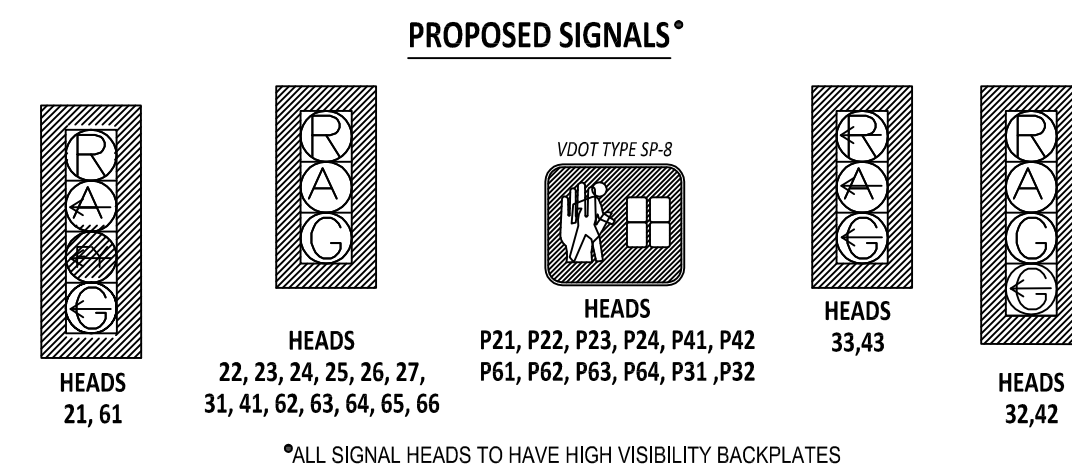
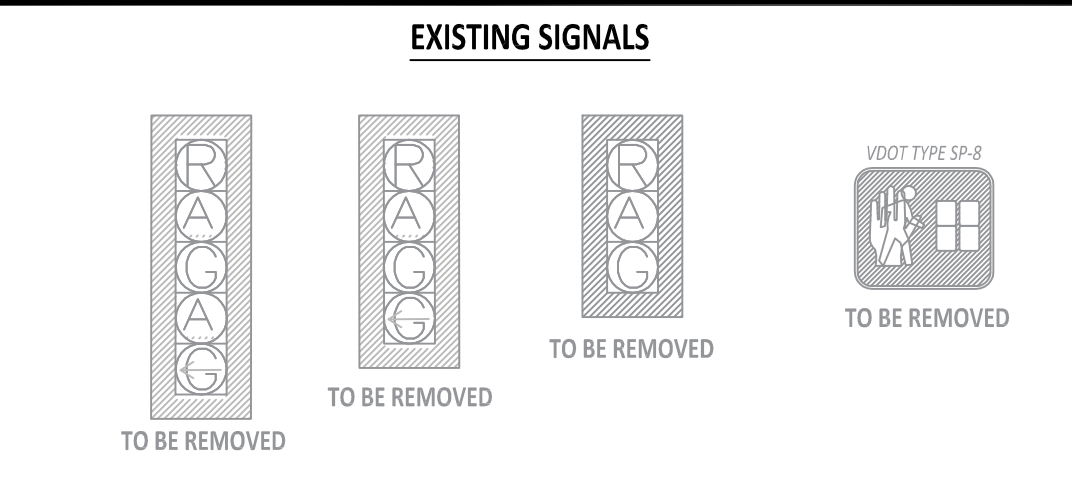
Project Name and Location
Traffic Signal Design
Standard Details
Arlington Boulevard & George Mason Drive
ID#41
TWS

Designed: YT
Drawn: YT
Checked: MMH
Miss Utility Transmittal #:

Plotted: May 04, 2021
Plotted by: tangyq

Scale: N.T.S.

REVISED: MARCH 03, 2020
 File name: TSD_Arlington Blvd and George Mason Drive_AUTOCAD 2018.dwg
 Path: I:\Projects\4020182\4020182_0001\00_CAD Models and Sheets\04_CAD Transportation\Arlington Blvd and George Mason Drive TSD



PUSHBUTTON WALK MESSAGE

PB21, PB22, PB23, PB24, PB61, PB62, PB63, PB64	*ARLINGTON BOULEVARD, WALK SIGN IS ON TO CROSS ARLINGTON BOULEVARD.*
PB31, PB42	*NORTH GEORGE MASON DRIVE, WALK SIGN IS ON TO CROSS NORTH GEORGE MASON DRIVE.*
PB41, PB42	*SOUTH GEORGE MASON DRIVE, WALK SIGN IS ON TO CROSS SOUTH GEORGE MASON DRIVE.*

*PEDESTRIAN PUSHBUTTON SIGN SHALL BE MOUNTED ABOVE PEDESTRIAN PUSHBUTTON.

INITIAL TIMING CHART

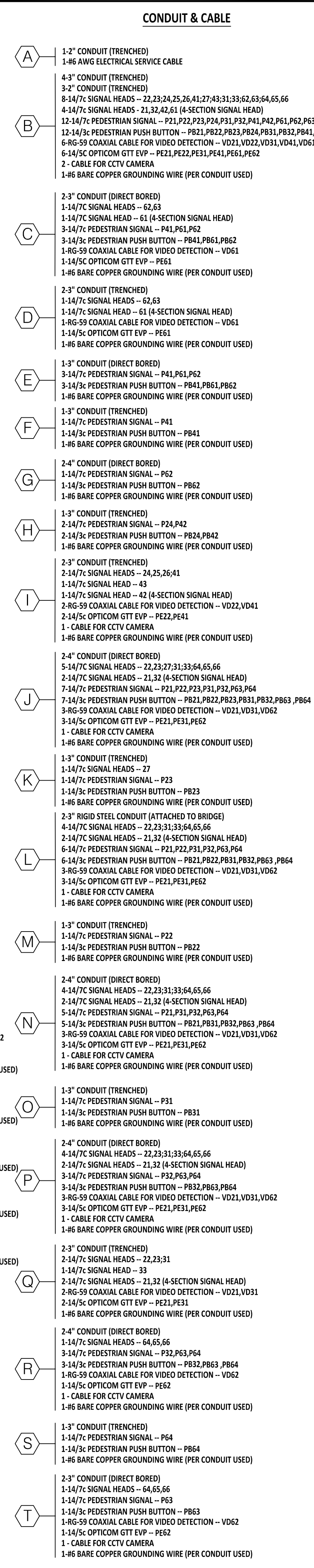
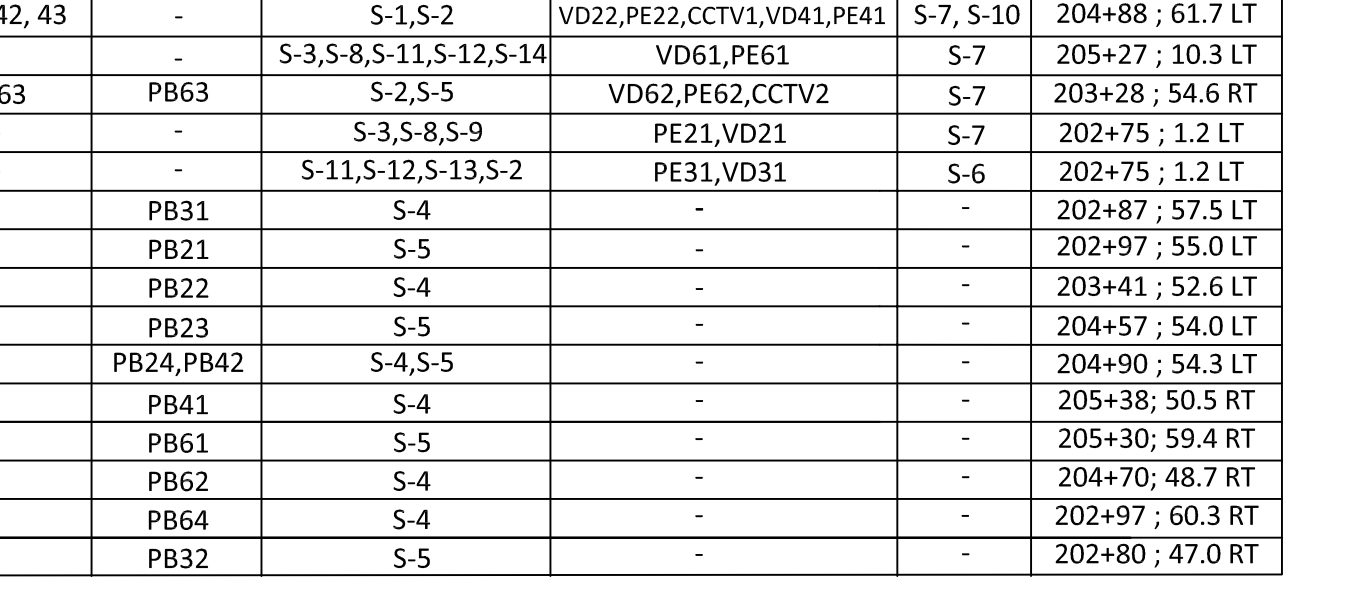
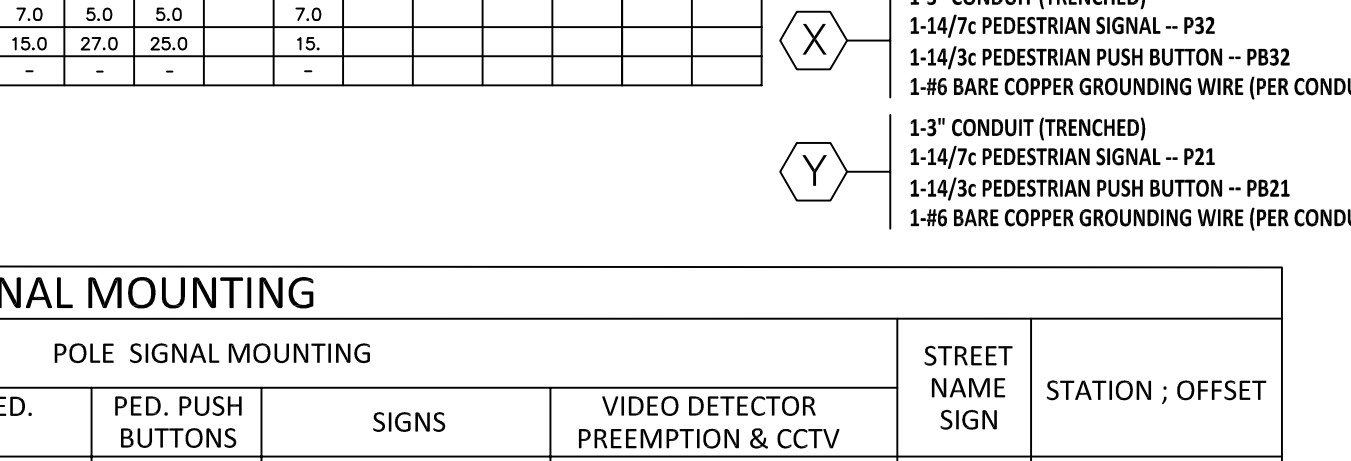
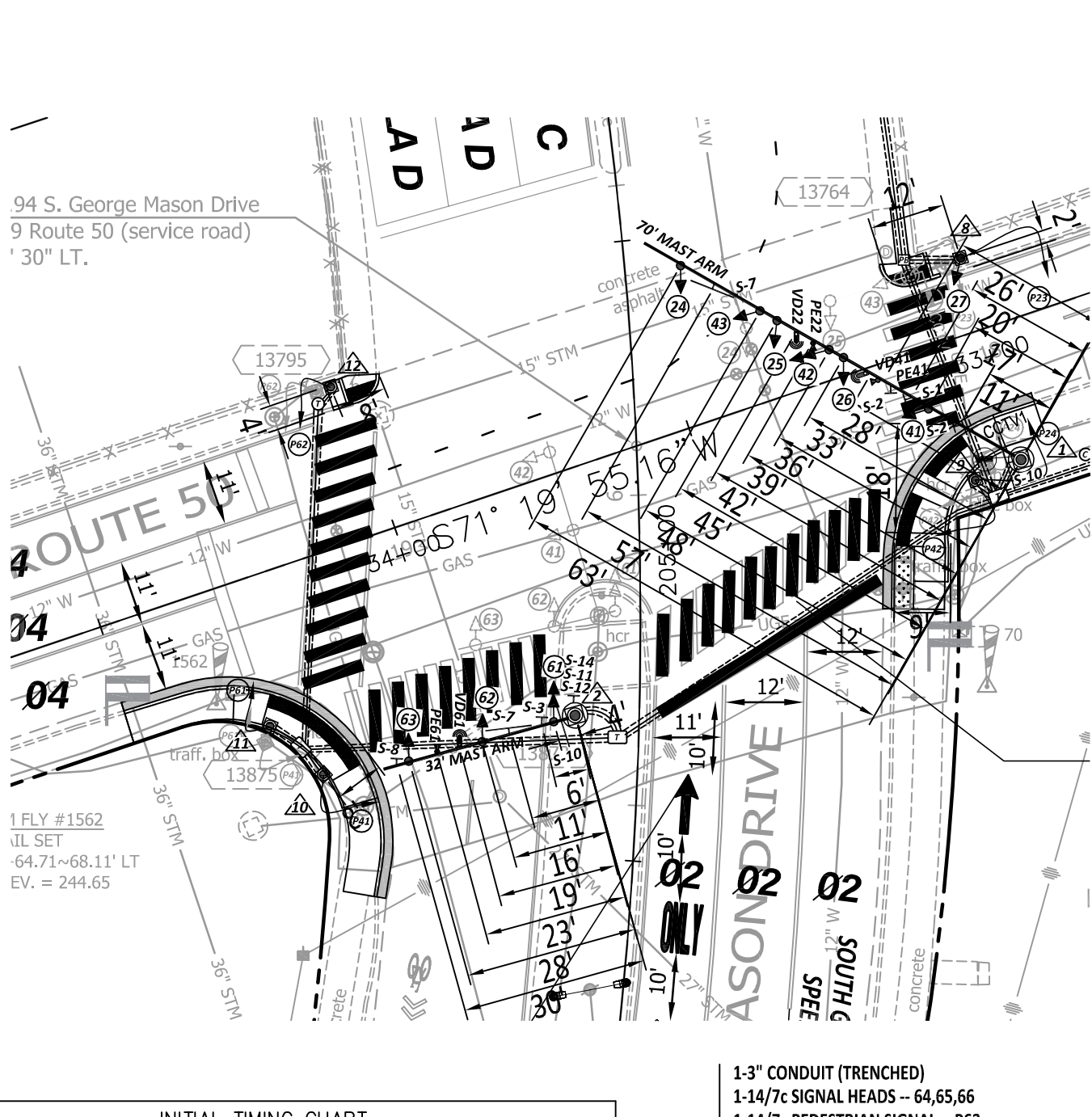
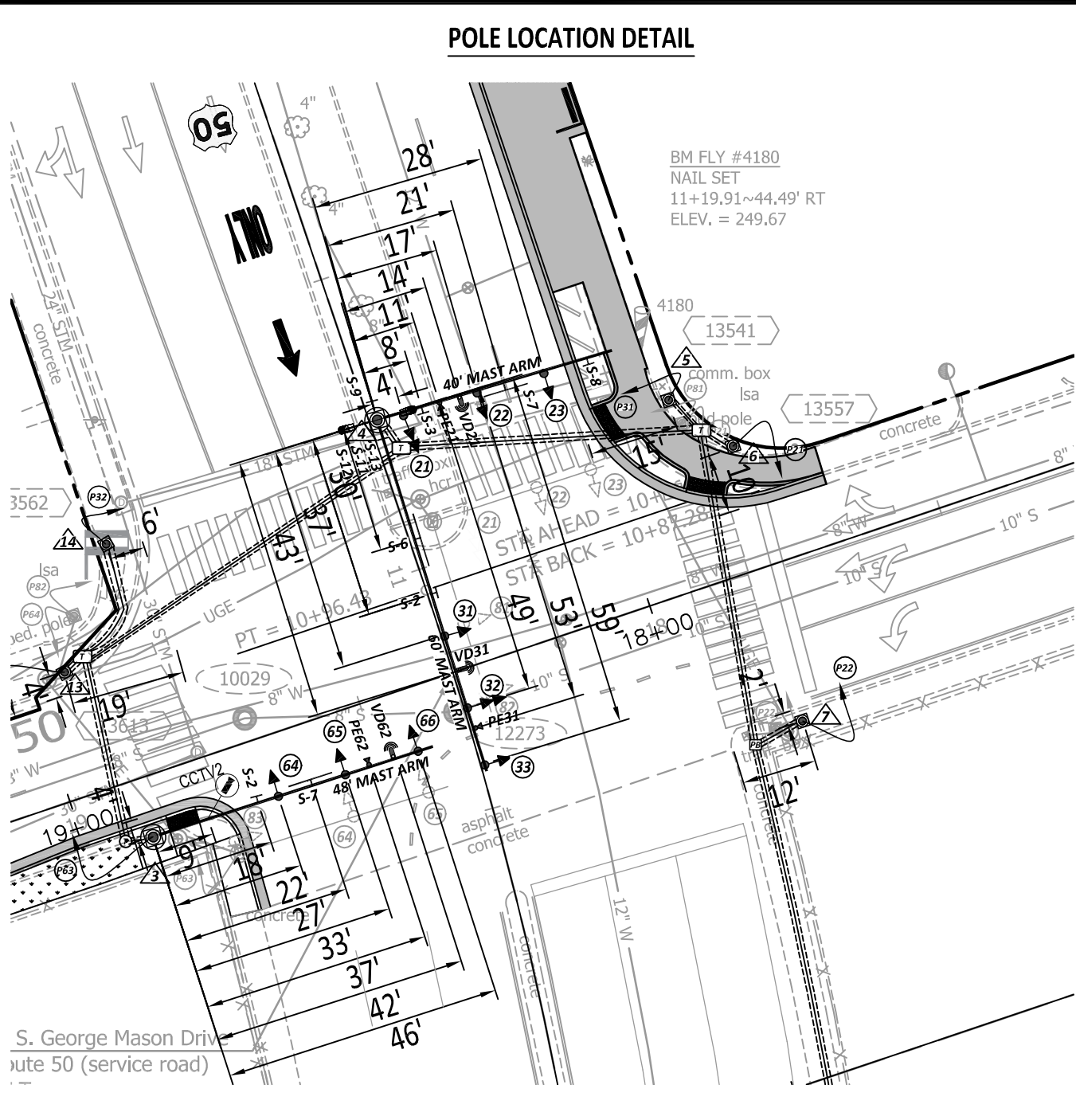
PHASE	1	2	3	4	5	6	7	8	OLA A	OLA B	OLA C	OLA D
PHASE ON	X	X	X	X	X	X	X	X	X	X	X	X
PHASE OFF	X	X	X	X	X	X	X	X	X	X	X	X

PHASE TIMINGS

MOVEMENT	PH 1	PH 2	PH 3	PH 4	PH 5	PH 6	PH 7	PH 8
MIN GR	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PASSAGE	0.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0
YELLOW CHANGE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
RED CLEAR	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
MAX 1	35.0	25.0	25.0	35.0	35.0	35.0	35.0	35.0
MAX 2	35.0	25.0	25.0	35.0	35.0	35.0	35.0	35.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE PROCEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	7.0	5.0	5.0	7.0	7.0	7.0	7.0	7.0
PED CLEARANCE	15.0	27.0	25.0	15.0	15.0	15.0	15.0	15.0
MODE	-	-	-	-	-	-	-	-

POLE SIGNAL MOUNTING

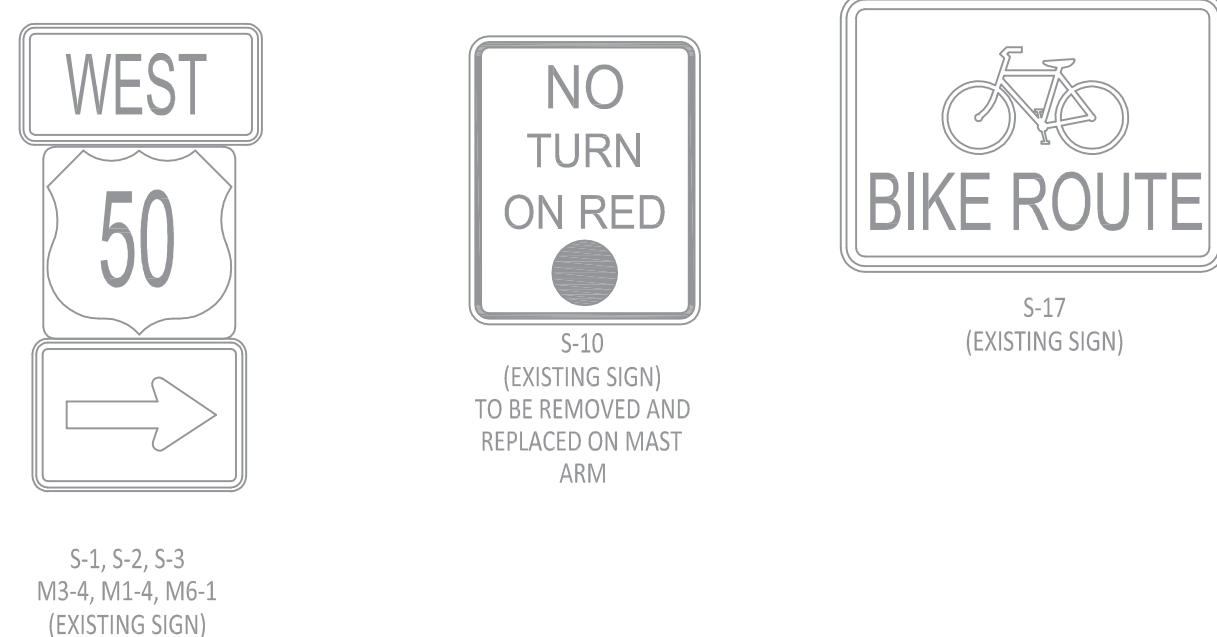
No.	STANDARD TYPE	SIG. M.A.	LUM. M.A.	LUM. LED	VEHICLE & PED. HEADS	PED. PUSH BUTTONS	SIGNS	VIDEO DETECTOR PREEMPTION & CCTV	STREET NAME SIGN	STATION ; OFFSET
1	MAST ARM POLE	70"	-	-	24, 25, 26, 41, 42, 43	-	S-1,S-2	VD22,PE22,CCTV1,VD41,PE41	S-7, S-10	204+88 ; 61.7 LT
2	MAST ARM POLE	32"	-	-	61,62,63	-	S-3,S-8,S-11,S-12,S-14	VD61,PE61	S-7	205+27 ; 10.3 LT
3	MAST ARM POLE	48"	-	-	64, 65, 66, PB63	PB63	S-2,S-5	VD62,PE62,CCTV2	S-7	203+28 ; 54.6 RT
4	DOUBLE MAST ARM POLE	40"	6'	250W	21, 22, 23	-	S-3,S-8,S-9	PE21,VD21	S-7	202+75 ; 1.2 LT
5	DOUBLE MAST ARM POLE	60"	(DUAL)	(DUAL)	31, 32, 33	-	S-11,S-12,S-13,S-2	PE31,VD31	S-6	202+75 ; 1.2 LT
6	PEDESTAL POLE 12'	-	-	-	P31	PB31	S-4	-	-	202+87 ; 57.5 LT
7	PEDESTAL POLE 12'	-	-	-	P21	PB21	S-5	-	-	202+97 ; 55.0 LT
8	PEDESTAL POLE 12'	-	-	-	P22	PB22	S-4	-	-	203+41 ; 52.6 LT
9	PEDESTAL POLE 15'	-	-	-	27, P23	PB23	S-5	-	-	204+57 ; 54.0 LT
10	PEDESTAL POLE 12'	-	-	-	P24,P42	PB24,PB42	S-4,S-5	-	-	204+90 ; 54.3 LT
11	PEDESTAL POLE 12'	-	-	-	P41	PB41	S-4	-	-	205+38 ; 50.5 RT
12	PEDESTAL POLE 12'	-	-	-	P61	PB61	S-5	-	-	205+30 ; 59.4 RT
13	PEDESTAL POLE 12'	-	-	-	P62	PB62	S-4	-	-	204+70 ; 48.7 RT
14	PEDESTAL POLE 12'	-	-	-	P64	PB64	S-4	-	-	202+97 ; 60.3 RT
15	PEDESTAL POLE 12'	-	-	-	P32	PB32	S-5	-	-	202+80 ; 47.0 RT



FILENAME: TSD_Arlington Blvd and George Mason Drive_AUTOCAD 2018.dwg
 PATH: I:\Projects\4020182\4020182_0001\90_CAD Models and Sheets\04_CAD Transportation\Arlington Blvd and George Mason Drive TSD

REVISED: MARCH 03, 2020

EXISTING SIGNS TO BE RELOCATED



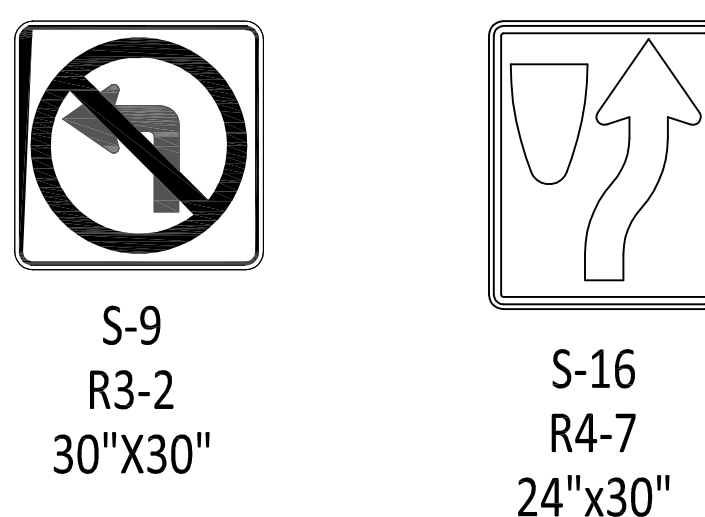
EXISTING SIGNS TO REMAIN



Virginia Department of Transportation
 REVIEW OF WORKING DRAWINGS
 Working drawings have been reviewed in accordance with Section 105.10 2016 VDOT Road & Bridge Specifications

X REVIEW COMPLETED
✓ CORRECT & RESUBMIT
REJECTED - SEE REMARKS
 Reviewed by: *mohsin zaidi* Date: 6/2/2021

PROPOSED SIGNS



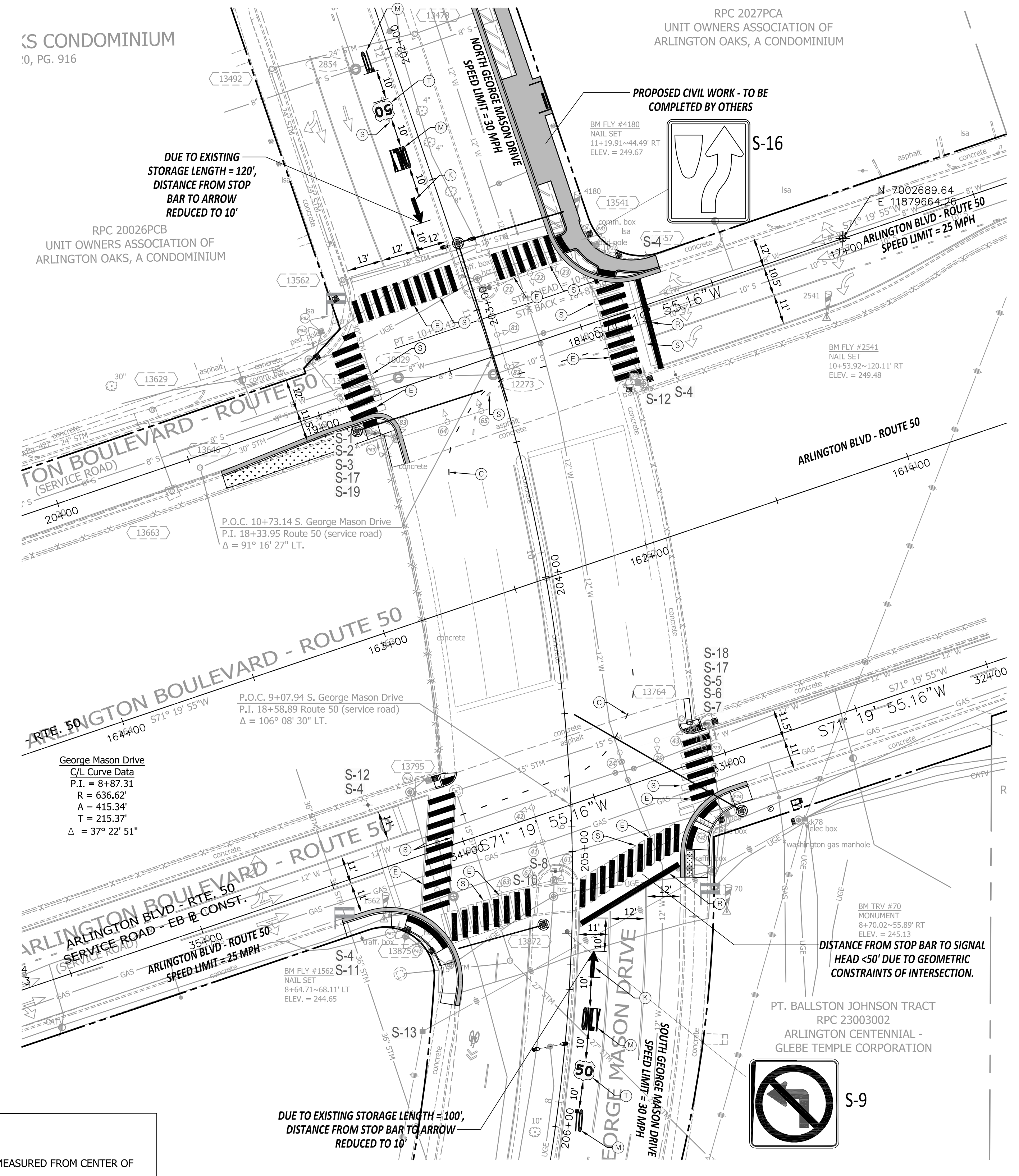
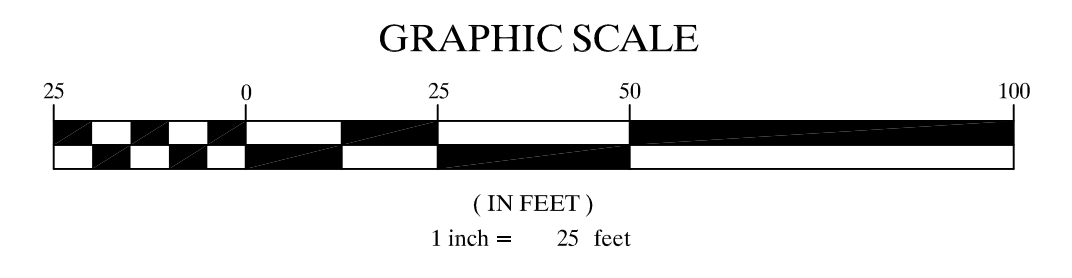
STANDARD PAVEMENT MARKING LEGEND	
(A) TYPE B CLASS 1 WHITE 4" WIDTH	LANE LINES
(B) TYPE B CLASS 1 WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
(C) TYPE B CLASS 1 WHITE 4" WIDTH, 2' LONG 6' SPACING	VDOT TURN LANE SKIPS
(D) TYPE B CLASS 1 WHITE 18" WIDTH	STOP BARS
(E) TYPE B CLASS 1 WHITE 24" 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 24" WIDTH	VDOT - STOP BARS
(S) ERADICATE EXISTING PAVEMENT MARKING	ERADICATION
(T) TYPE B CLASS 1 6'W x 15'L ROUTE SHIELD	VDOT ROUTE SHIELD MARKING

- 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 TE&O CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKING.
 - PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING:
 - A.) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - B.) ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATIONS.
 - ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS UNLESS OTHERWISE NOTED.
 - SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF TRAVEL LANE.
 - FOR DETAILS SEE ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATIONS.
- SIGN NOTES:**
- FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"x2.50") WITH HARDWARE FOR 2" POST. USE 3/8" CORNER BOLT WITH FLANGED NUT AND 3/8" DRIVER RIVET WITH WASHER.
 - CONTACT TE&O CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.

LEGEND

EXISTING	PROPOSED

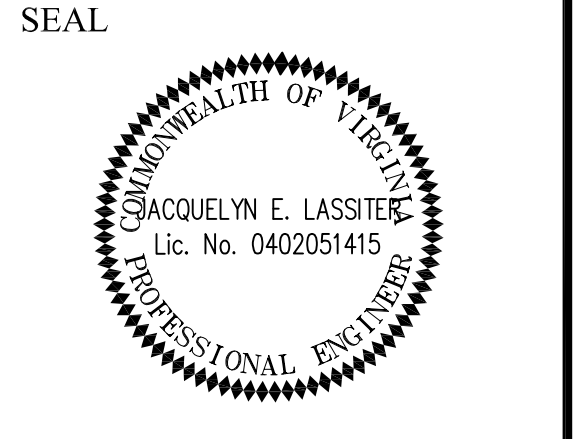
HIGH VISIBILITY CROSSWALK



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606



APPROVALS

NAME	DATE
<i>Jacquelyn E. Lassiter</i>	06/21/21
TRAFFIC SIGNAL ENGINEER	
<i>John Nabe</i>	06/21/21
TRAFFIC ENGINEERING MANAGER	
<i>John Nabe</i>	07.16.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John Nabe</i>	06/22/2021
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	06/23/21
TRANSPORTATION DIRECTOR	

REVISIONS

NO.	DESCRIPTION	DATE

Traffic Signal Design

Signing and Marking Plan

Arlington Boulevard & George Mason Drive

ID#41

TOS

Project Name and Location

Designed: AK
 Drawn: AK
 Checked: JEL
 Miss Utility Transmittal #:

Plotted: May 18, 2021
 Plotted by: KharkwA

Scale: 1" = 25'

Sheet

T-4

TRANSPORTATION MANAGEMENT PLAN

1. Project Category (Minimum Type A TMP Requirements)
 - a. This will be a Type A Project
This TMP has been designed in conformance with Type A TMP plan of IIM-241.7.
 - b. The project is located at the intersection of the Arlington Blvd. and George Mason Dr.
The project location map is shown on Sheet T-1.
The work zone(s) have been delineated as shown on MOT Sheets M-2 to M-3.
The work zone(s) lengths and widths vary by locations as shown on MOT Sheets M-2 to M-3.
 - c. Note the hours the Construction Area will be active:
Construction Area shall be considered active when any impact to traffic occurs.
(1st cone in the road) Construction Area hours have the following limitations:

SINGLE LANE CLOSURE (MAJOR ARTERIAL)				
	Monday to Thursday	Friday	Saturday	Sunday
DAY TIME	9:30AM to 3:00PM	9:30AM to 2:00PM	*NOT ALLOWED	*NOT ALLOWED
NIGHT TIME	10:00PM to 5:00AM	*NOT ALLOWED	10:00PM to 8:00AM	10:00PM to 5:00AM

*No lane closures will be allowed from noon on the day before a holiday until noon on the workday following the holiday. Holidays include all State and Federal holidays.

- d. The TMP Plan, during construction, shall be in accordance with Sections 512, 701 & 704 of the Virginia Department of Transportation Road and Bridge Specifications, dated 2016, the Virginia Work Area Protection Manual Revision 2 and the Virginia Supplement to the 2009 MUTCD, dated 2011.
- e. Note any existing entrances, existing intersection, or existing pedestrian access points that will be affected by the Construction Area or by the Traffic Control Devices:

Existing Entrances:
There are no existing entrances.

Existing Intersections:
The project is located at the intersection of the Arlington Blvd. and George Mason Dr.
All existing intersections are to remain open and functional during construction.

Existing Bus Stops:
There are five existing Bus Stops (15155, 15181, 6000323, 6000324, 6000332) within the project limits. All Bus Stops are to remain open and functional during construction.
- f. Identify the major types of Travelers:
The Traffic on the roadway consists primarily of passenger vehicles. The adjacent areas are all commercial/residential. There is a school directly adjacent to the intersection on the NE corner.
- g. The Contractor, at no additional cost to the project and which shall be considered incidental to the cost of the project, shall:

Designate a person assigned to the project who will have the primary responsibility, with sufficient authority, for implementing the TMP and other safety and mobility aspects of the permit work.

Ensure that personnel assigned to the project are trained in traffic control to a level commensurate with their responsibilities in accordance with VDOT's work zone traffic control training guidelines and TE-345.1.

Inform the Engineer of any work requiring lane shifts, lane closures, and/or phase changes a minimum of two working days prior to implementing this activity.

Perform reviews of the Construction Area to ensure compliance with contract documents at regularly scheduled intervals at the direction of the Engineer. The Contractor shall maintain a copy of the temporary traffic control plan at the work site at all times.

Coordinate with Arlington County Police Department and Arlington County Fire/Rescue Department for any lane closures and any detours of any nature, at no additional cost to the project.

Schedule all phases of construction in a such a manner that water, sanitary sewer, cable fiber/optic cable; any overhanging utilities and any underground utilities services will not be interrupted.

2. If the Contractor does not wish to follow the TMP outlined in this package, it shall be the responsibility of the Contractor to present a revised TMP with construction signage to the Engineer for review and approval prior to any construction activity that may affect the existing traffic.

3. The Contractor is to maintain at least two lanes of traffic on George Mason Dr. and one lane on Arlington Blvd. with a minimum clear roadway width in accordance with VDOT Standard C5-10 unless otherwise approved by Engineer. For street intersections, commercial connections or private entrances, a minimum width no less than existing width shall be maintained at all times, unless approved by the engineer.
4. All areas excavated below the existing pavement surface and width the clear zone at the conclusion of each workday, shall be backfilled to form an approximate 6:1 wedge against the existing pavement or newly constructed pavement surface for the safety and protection of vehicular traffic. All costs for placing, maintaining and removing the 6:1 wedge shall be included in the price bid for other items in the contract and no additional compensation will be allowed.
5. Traffic Barrier Service is not proposed for the construction of this project.
6. The Contractor shall ensure positive drainage for the duration of the project. Contractor shall add any additional temporary measures necessary to facilitate proper, positive drainage for the duration of construction.
7. Unless specified on the plans all existing turn lanes shall be maintained at all times for the duration of construction.
8. Where Group 2 Channelizing Devices are used to separate the construction area and traffic, a minimum clear zone area as defined in the VWAPM is to be maintained.
9. The Contractor is to coordinate with Arlington County for Location(s) of the construction staging area. The Contractor is responsible for obtaining all permits and/or easements as necessary.
10. IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN

During the first day of the new work zone traffic pattern, the project's Manager and projects's Construction Inspector shall inspect the work zone to ensure compliance with the TMP. On the third to fifth day of implementation of the TMP's new work zone traffic pattern the Construction Inspector shall conduct an on-site review of the work zone's performance in coordination with VDOT and recommend to the contractor any required changes to the TMP to enhance the work zone's safety and mobility. All such changes shall be documented. An on-site review of the project's work zone traffic control by the County's Construction Inspector and the Contractor shall be conducted (with coordination from VDOT) within 48 hours of any fatal incident/crash within the work zone.

11. PUBLIC COMMUNICATION PLAN

- a. Notify the Project Manager and Construction Inspector two weeks in advance of any scheduled work plans and traffic delays.
- b. Notify the Project Manager, Construction Inspector, and corresponding VDOT Engineer of any unscheduled traffic delays.

12. TRANSPORTATION OPERATIONS

The contractor shall be responsible for implementing and providing the following:

- a. Notify the Regional Transportation Operation Center (TOC) 1 week in advance in order to place lane closure information on the 511 and VA-traffic.
- b. Post a list of local emergency response agencies inside the project construction office/trailer.
- c. Immediately report any traffic incidents that may occur in the work zone.
- d. Notify the project's construction inspector and corresponding VDOT Engineer of any incidents and expected traffic delays.
- e. Within 24 hours of any incidents within the construction work zone, a review of the traffic controls shall be completed and necessary adjustments made to reduce the frequency and severity of any future incidents.

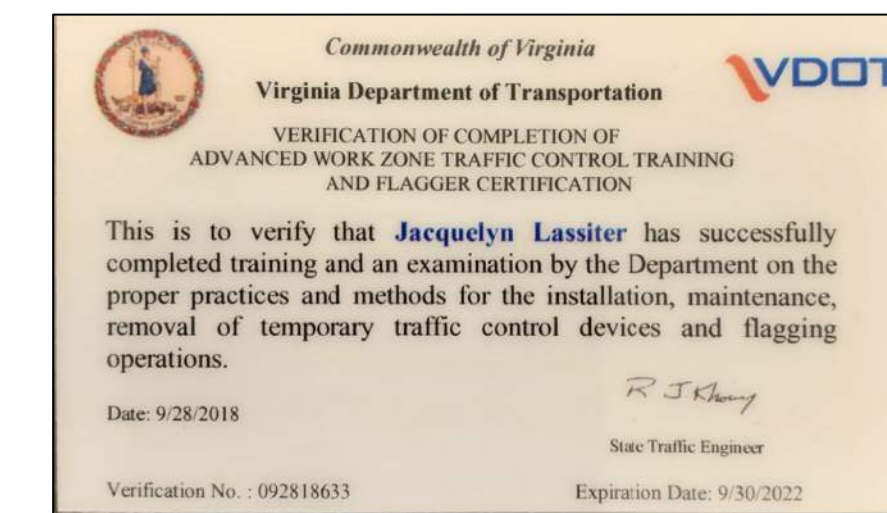
CONTACT NUMBERS

County Project Manager - Joshua Nicholas (703)-228-3861
 County Construction Manager - Alexander Tsybin (703)-228-3723
 County Construction Inspector - Alexander Tsybin (703)-228-3723
 Emergency Call
 Arlington County Police - (703)-558-2222
 Arlington County Fire & Rescue - (703)-228-3362

GENERAL CONSTRUCTION NOTES

Note: VWAPM Virginia Work Area Protection Manual (2011), Revision 2

1. The Contractor is to install project limits signs on Arlington Blvd. and George Mason Dr. in accordance with the VWAPM TTC-53.0. These signs are to remain in place for the duration of all phases of Construction until the project is fully constructed unless directed by the Engineer.
2. The Contractor is to make any necessary adjustments during both work and non-work hours to ensure the protection and safety of the adjacent property owners, pedestrians, vehicular traffic and the general public from any construction related activity, construction equipment and the construction site itself.



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SEAL



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Denise M. Leach 06/22/2021
 TE&O BUREAU CHIEF
Denise M. Leach 06/23/21
 TRANSPORTATION DIRECTOR

REVISIONS DATE

REVISIONS	DATE

Project Name and Location

Traffic Signal Design
 Transportation Management Plan
 Arlington Boulevard & George Mason Drive
 ID#41
 T08S

Designed: AK
 Drawn: AK
 Checked: JEL
 Miss Utility Transmittal #:

Plotted: May 18, 2021
 Plotted by: KharkwA

Scale: N.T.S.

Sheet
M-1

Virginia Department of Transportation

REVIEW OF WORKING DRAWINGS

Working drawings have been reviewed in accordance with Section 105.10 2016 VDOT Road & Bridge Specifications

REVIEW COMPLETED
 CORRECT & RESUBMIT
 REJECTED - SEE REMARKS

Reviewed by: _____ Date: _____

REVIEWED
 By Brian E. Fry at 2:27 pm, Jun 01, 2021

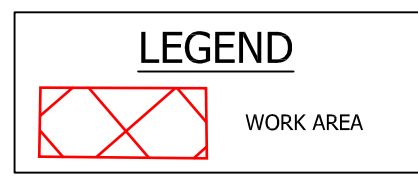
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REVISED: MARCH 03, 2020

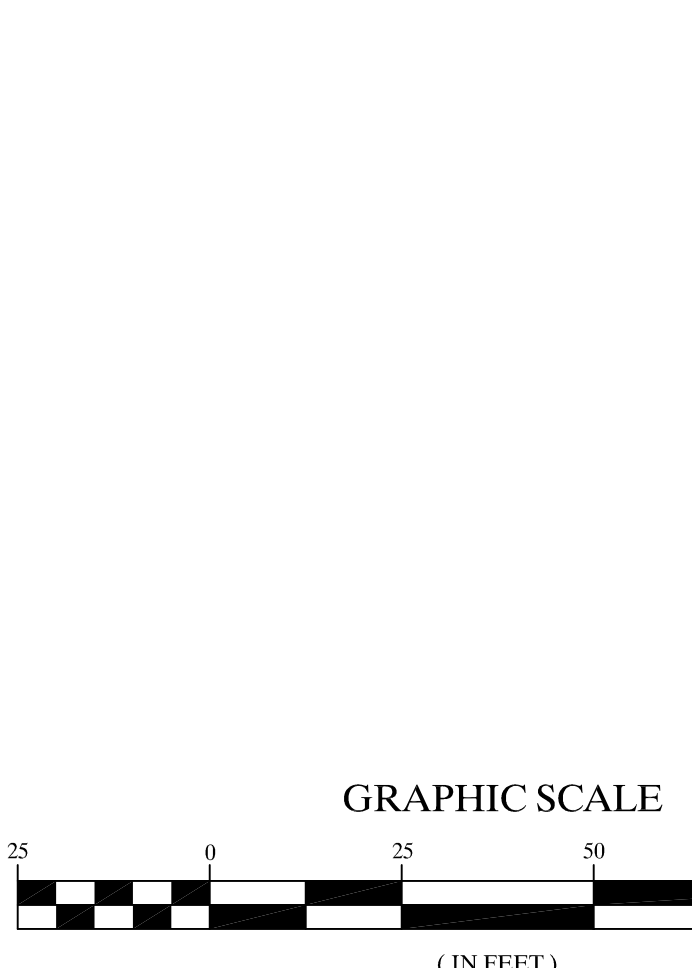
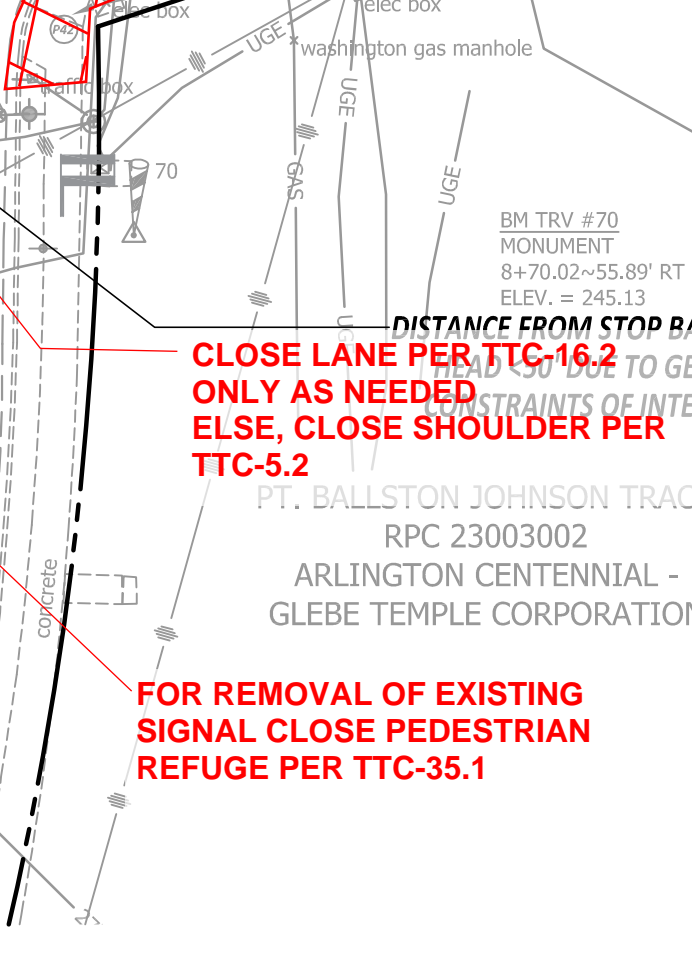
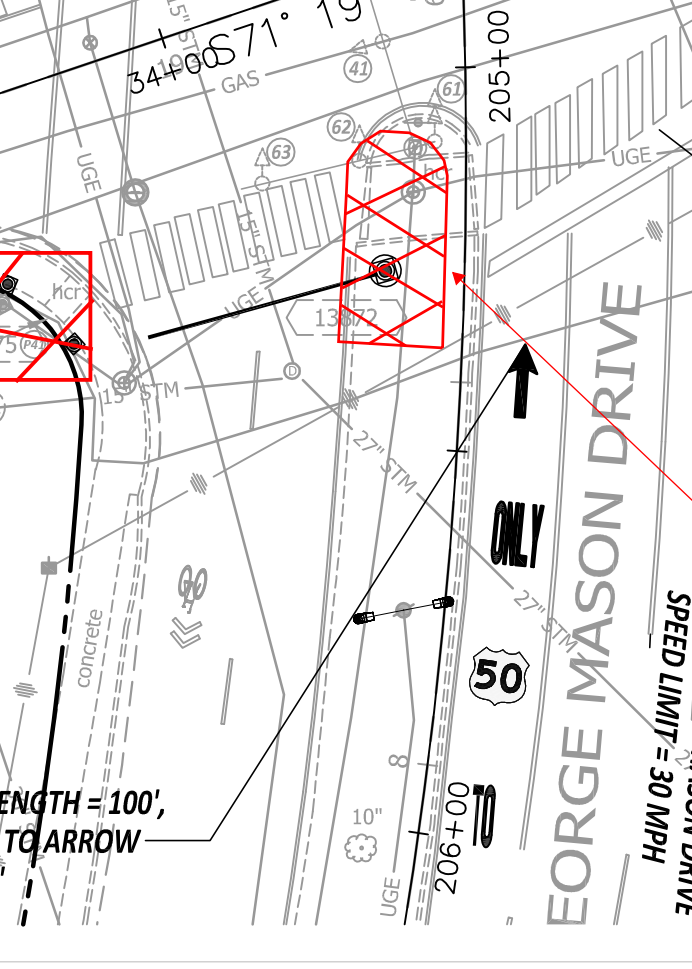
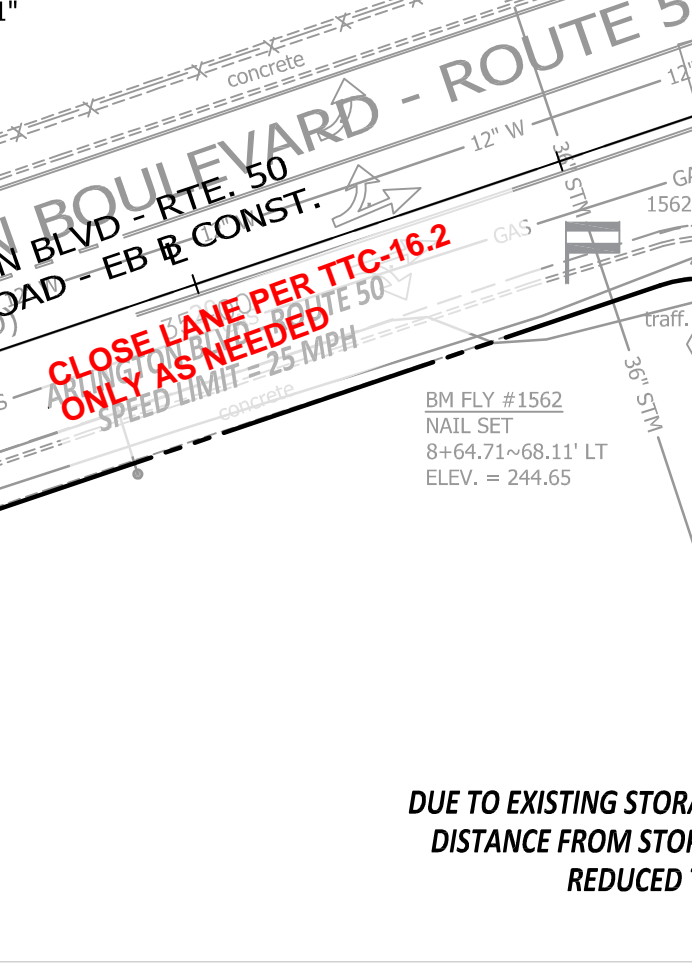
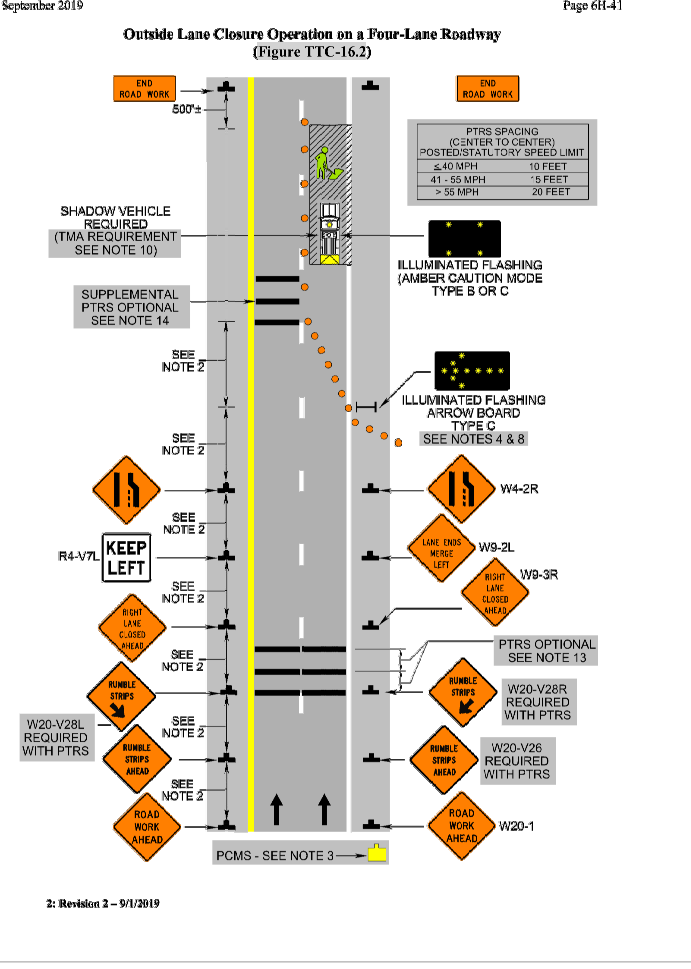
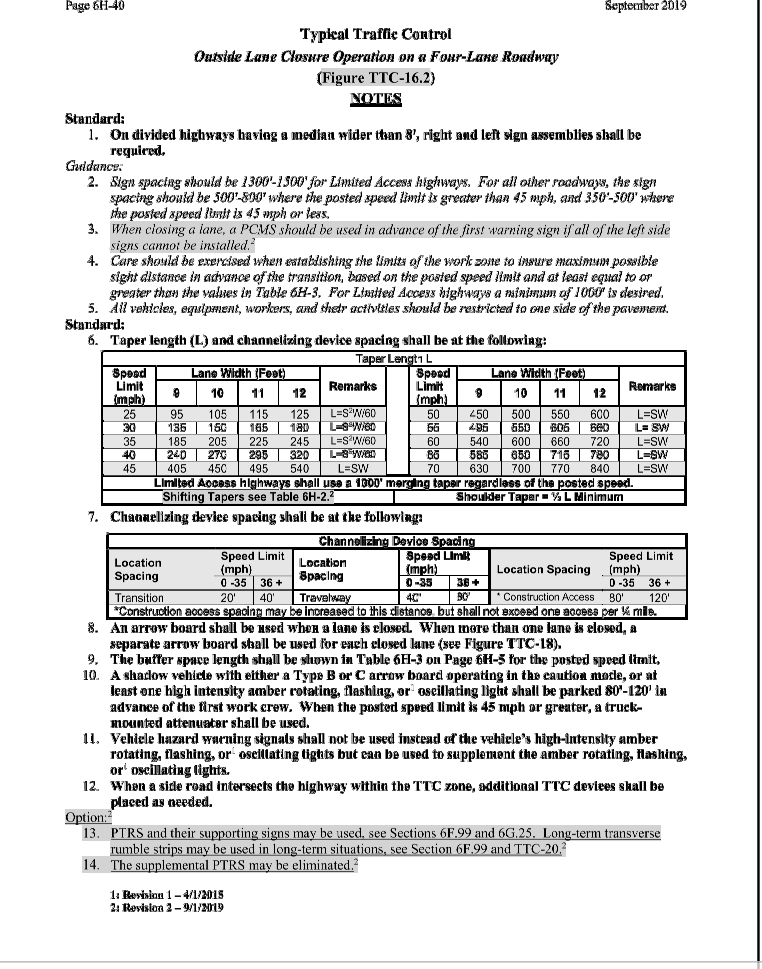
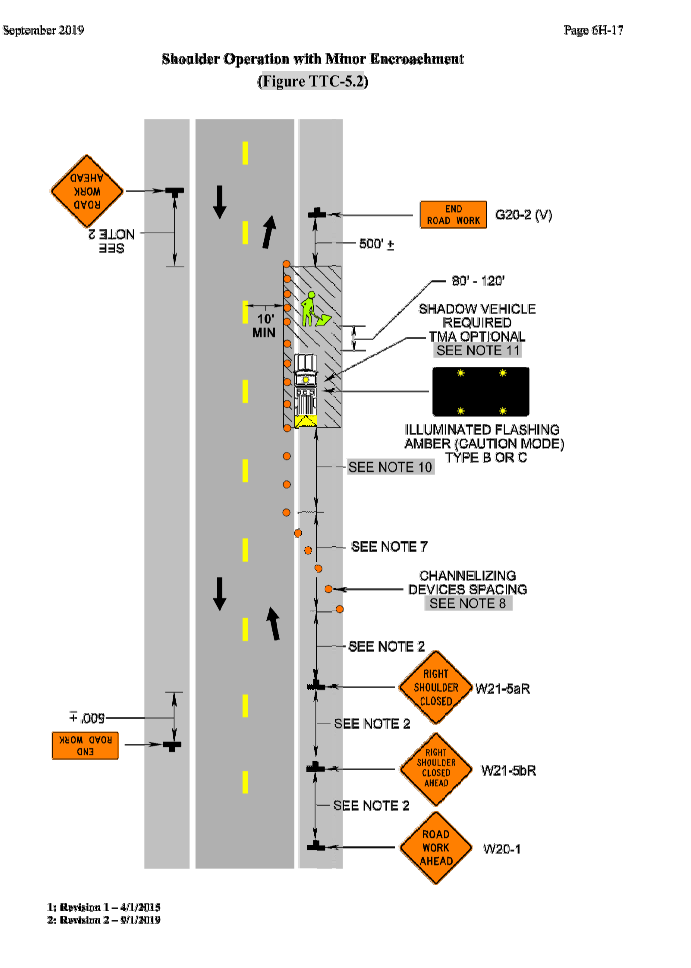
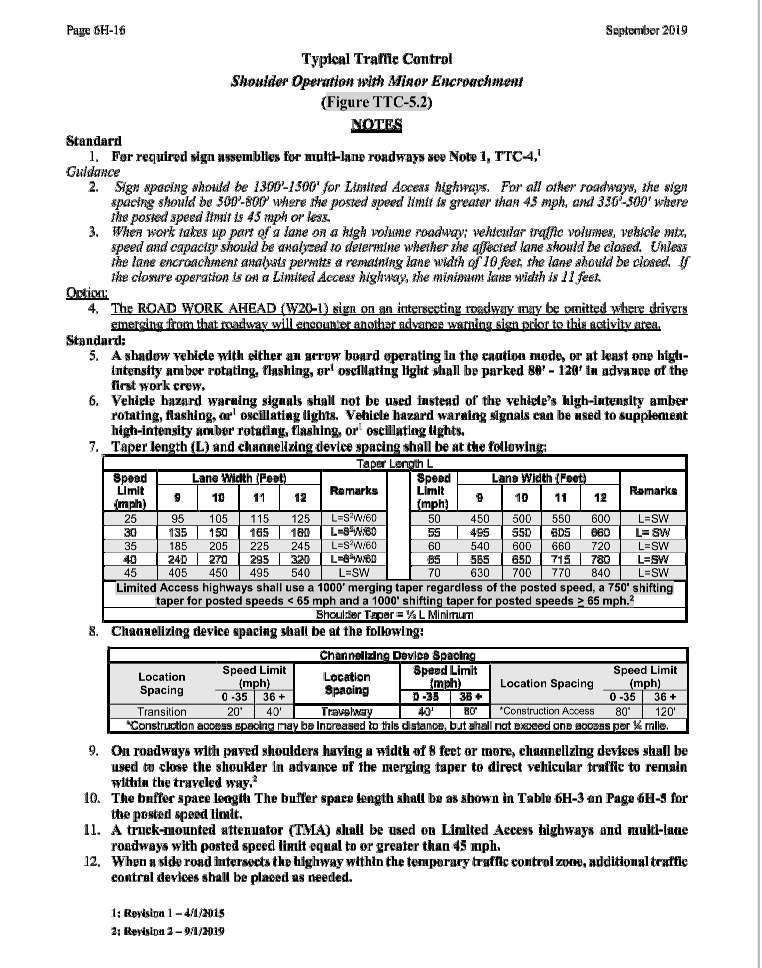
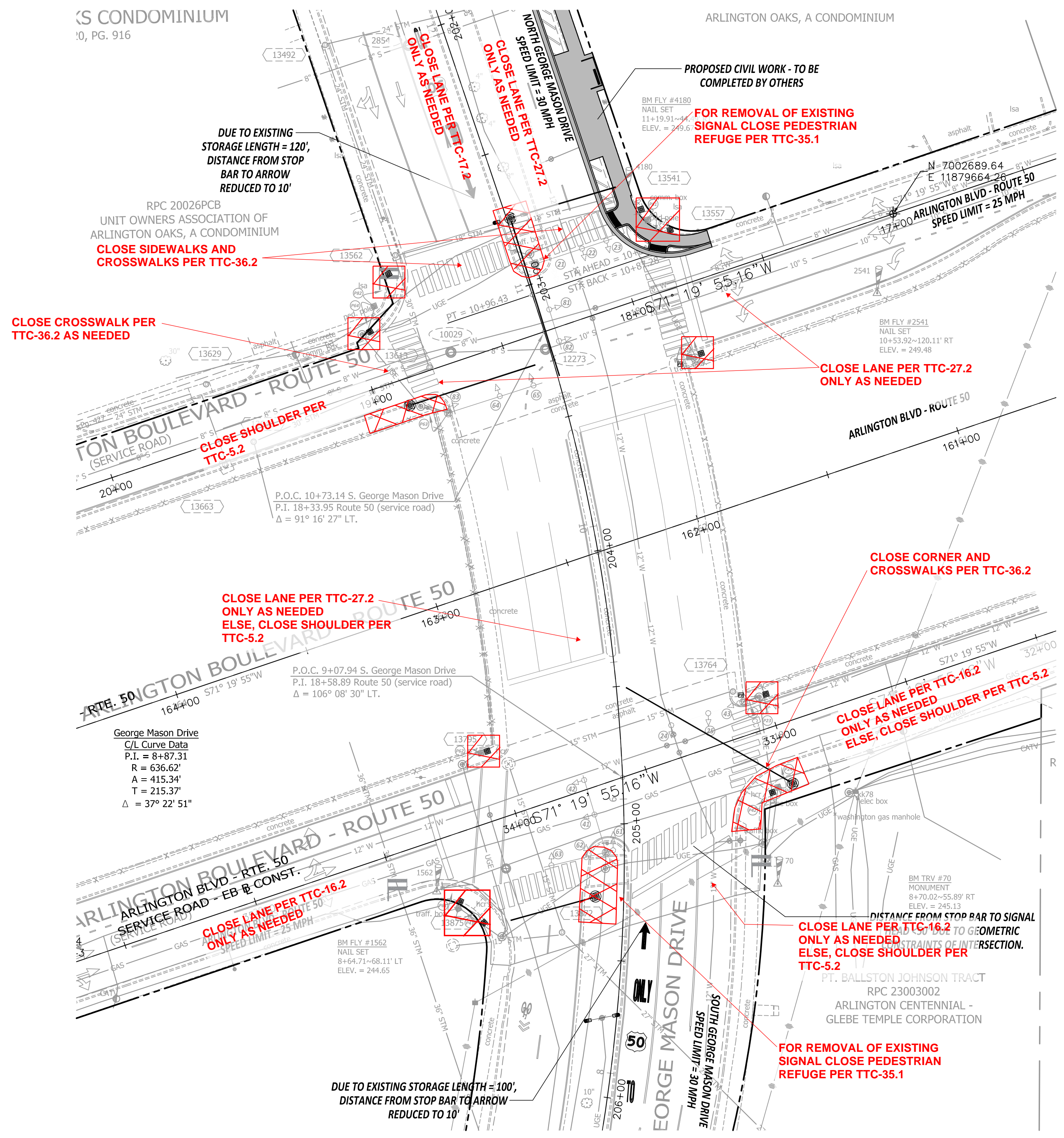
MOT PLAN - PHASE I - REMOVE EXISTING TRAFFIC SIGNALS AND EQUIPMENT, CONSTRUCT NEW TRAFFIC SIGNALS AND EQUIPMENT

MAINTENANCE OF TRAFFIC GENERAL NOTES:

- TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST VERSION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, THIS MAINTENANCE OF TRAFFIC PLAN, AND/OR AS DIRECTED BY ARLINGTON COUNTY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORK. THE SCHEDULE SHALL INDICATE THE DURATION OF ALL LANE OR SHOULDER CLOSURES.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL EITHER MAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GUIDE TRAFFIC THROUGH WORK ZONES. THE MINIMUM LANE WIDTH SHOULD BE 10 FEET.
- THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE AFFECTED PROPERTY OWNER SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE OF SUCH ACTIVITIES, AND THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY.
- ANY EXCAVATIONS WHICH ARE SPECIFICALLY APPROVED BY THE ENGINEER TO REMAIN OPEN PAST NORMAL WORKING HOURS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND AS APPROVED BY THE ENGINEER.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE RETROREFLECTIVE OR ILLUMINATED DURING NIGHT TIME HOURS.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS.
- PEDESTRIAN TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH MUTCD.
- ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS.
- WHEN NECESSARY, 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.
- PEDESTRIANS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.
- 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 OBSTACLES 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 OFFICE AT 703-228-4044 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.
- NORMAL WORKING HOURS SHALL BE 9:00AM TO 4:00PM MONDAY THROUGH FRIDAY WITHIN ARLINGTON COUNTY RIGHT-OF-WAY AND 9:30AM TO 3:00PM MONDAY THROUGH THURSDAY & 9:30AM TO 2:00PM ON FRIDAY WITHIN VDOT RIGHT-OF-WAY.
- COUNTY WILL COORDINATE WITH TRANSIT BUREAU FOR WORK THAT WILL EFFECT TRANSIT STOPS. BUS STOP MANAGER CAN BE REACHED AT 703-228-3049.
- CONTRACTOR TO CLOSE ONLY 1 CORNER AT A TIME.
- CONTRACTOR NOT TO IMPEDE BUS STOP ACCESS AT ANY TIME.



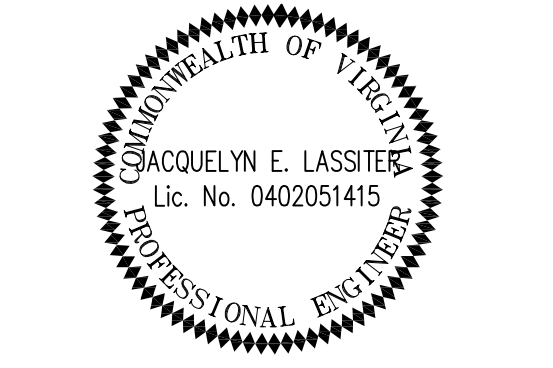
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DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
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2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
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SEAL



APPROVALS	DATE
<i>Jacquelyn E. Lassiter</i> TRAFFIC SIGNAL ENGINEER	06/21/21
<i>John N. Niles</i> TRAFFIC ENGINEERING MANAGER	06/21/21
<i>Debra J. Niles</i> WATER, SEWER, STREETS BUREAU CHIEF	07.16.2021
<i>John N. Niles</i> TE&O BUREAU CHIEF	06/22/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	06/23/21

REVISIONS	DATE

Traffic Signal Design
Maintenance of Traffic - Phase I
Arlington Boulevard & George Mason Drive
ID#41
TOS

Designed: AK
Drawn: AK
Checked: JEL
Miss Utility Transmittal #:

Plotted: May 18, 2021
Plotted by: Kharkwa

Scale: 1" = 25'

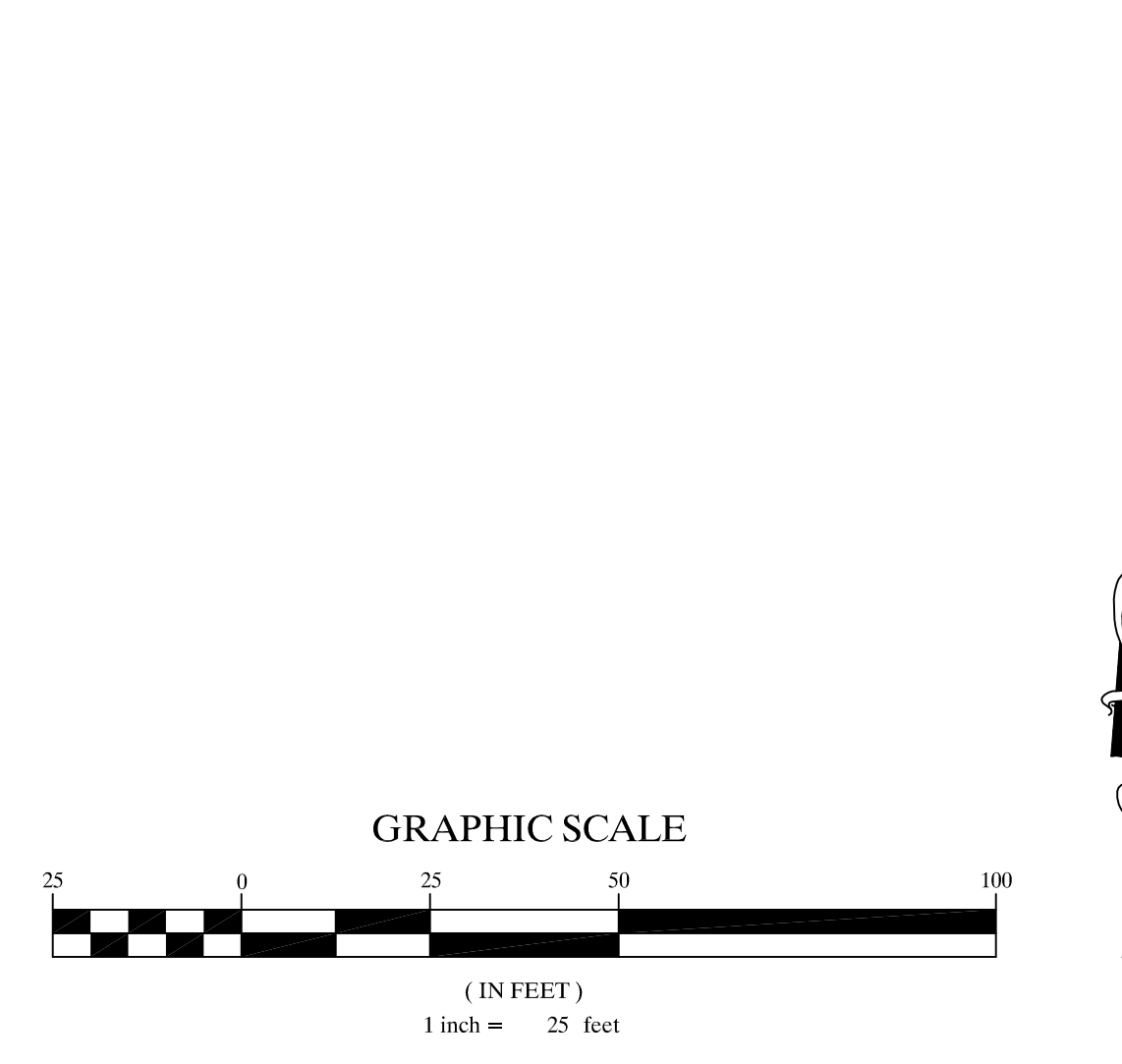
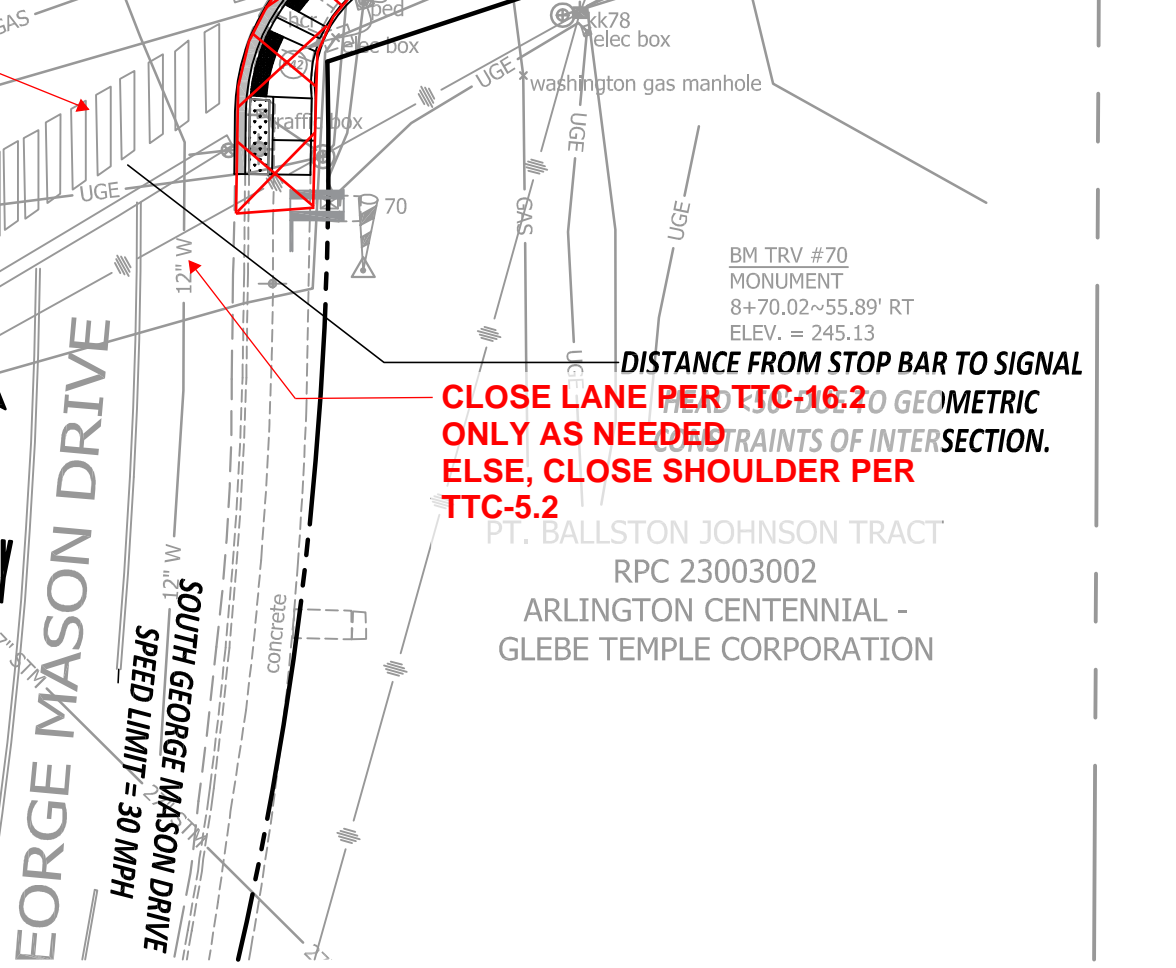
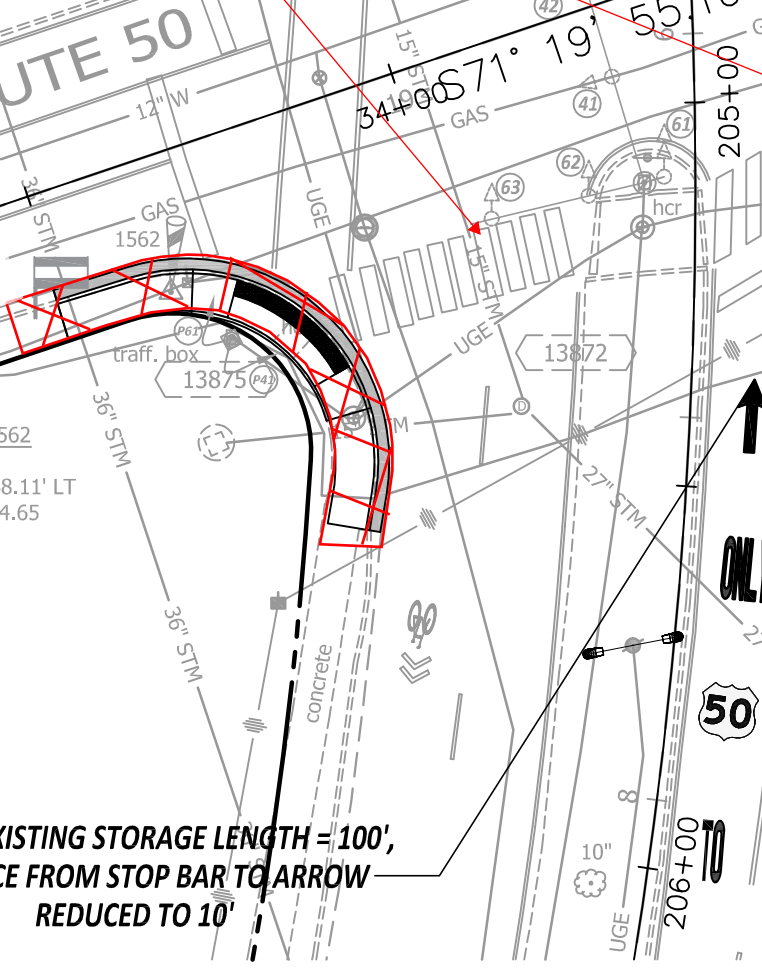
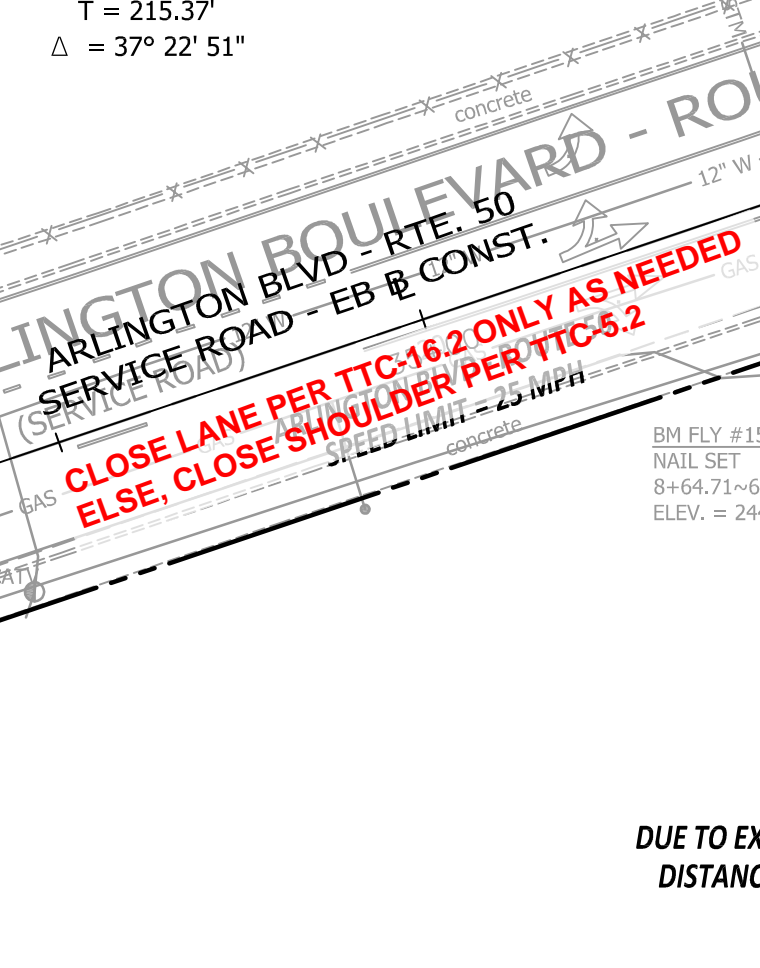
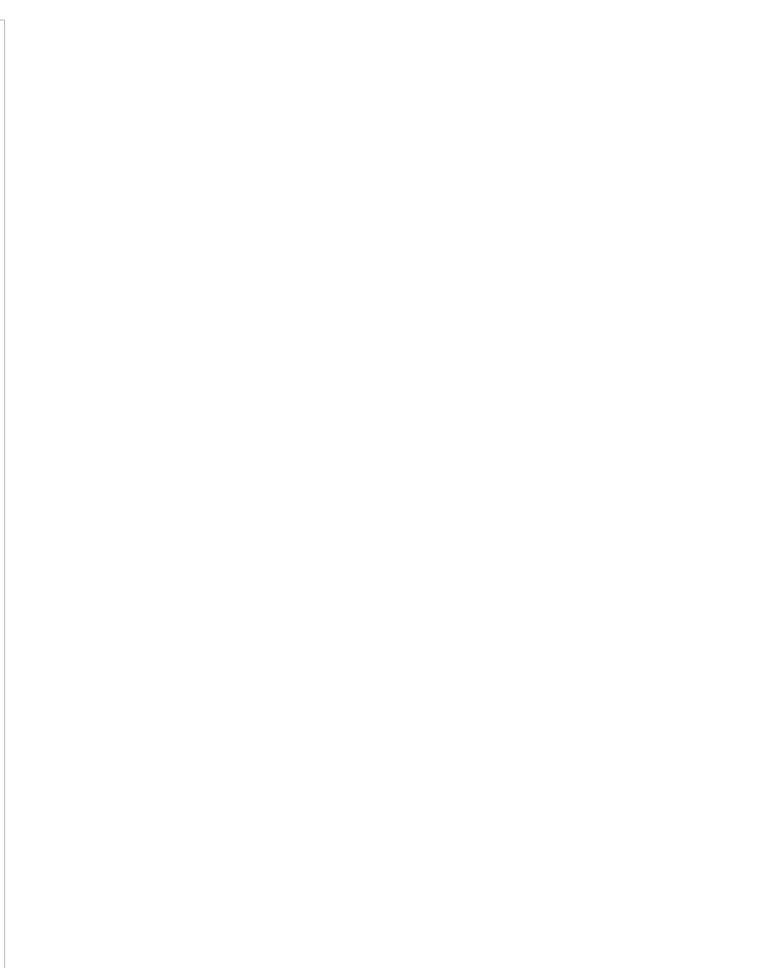
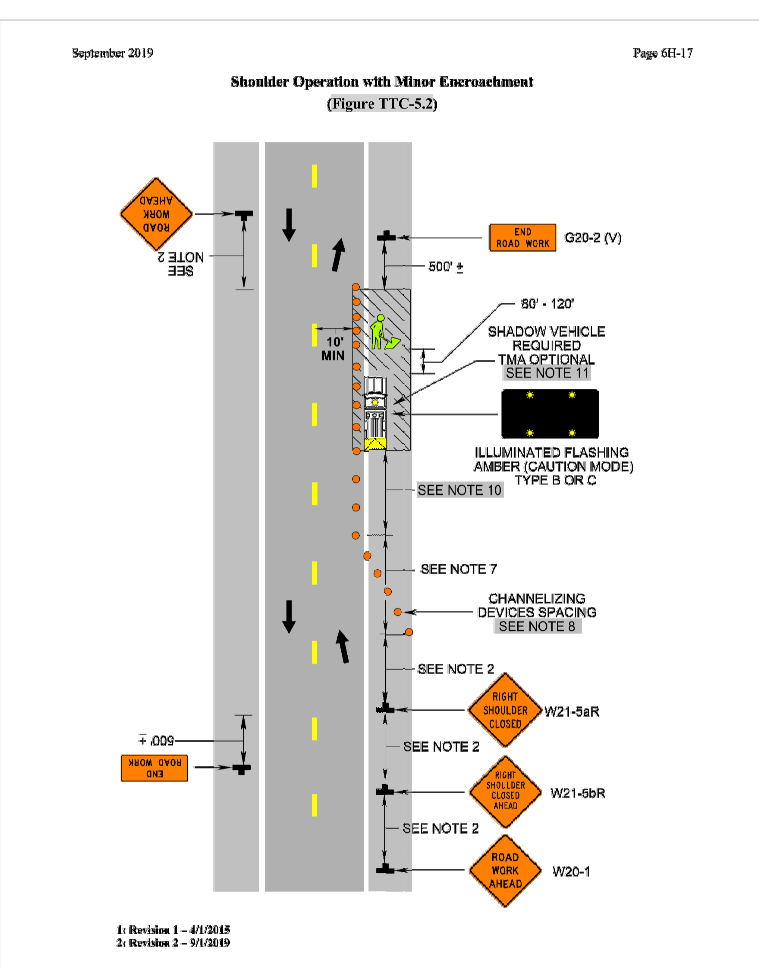
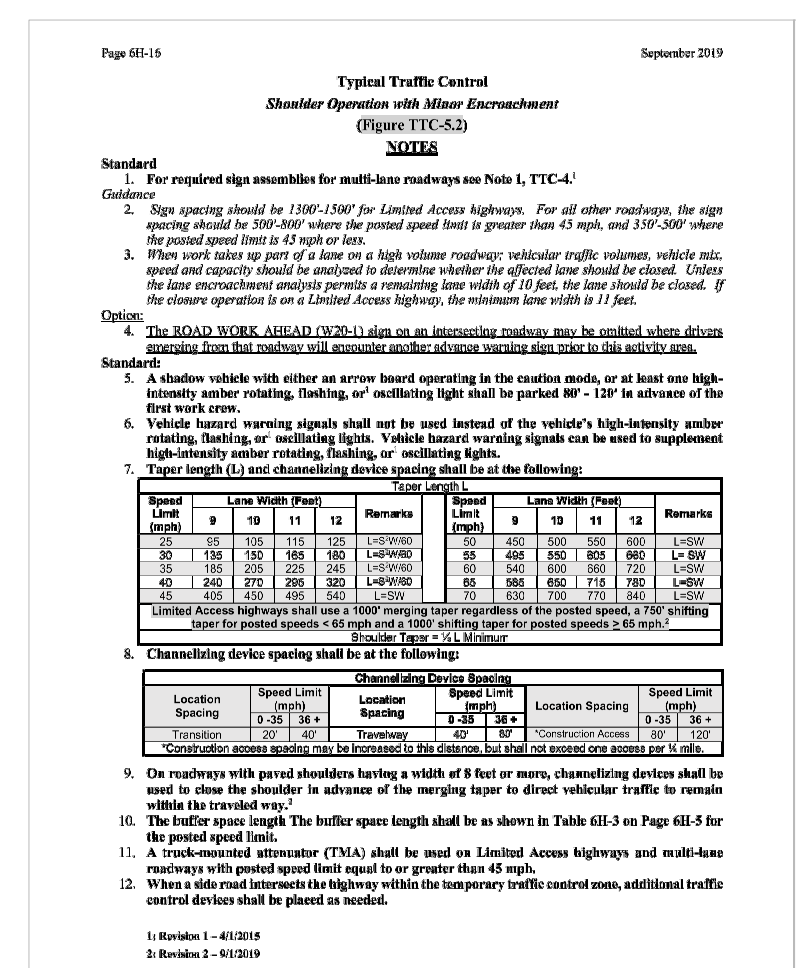
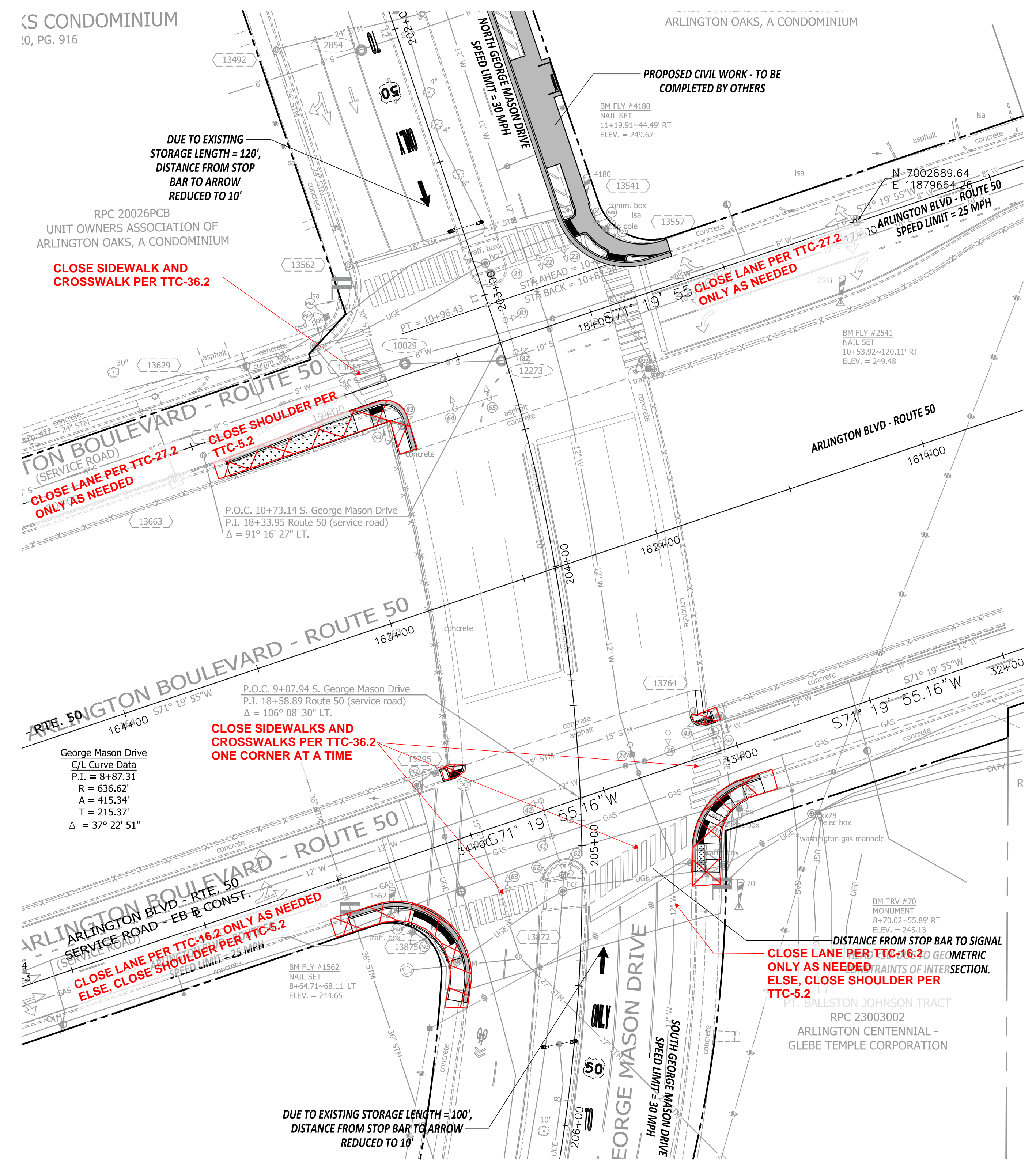
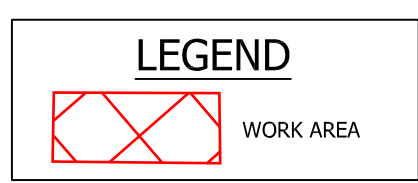
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MOT PLAN - PHASE II - CONSTRUCT PROPOSED CURB RAMPS

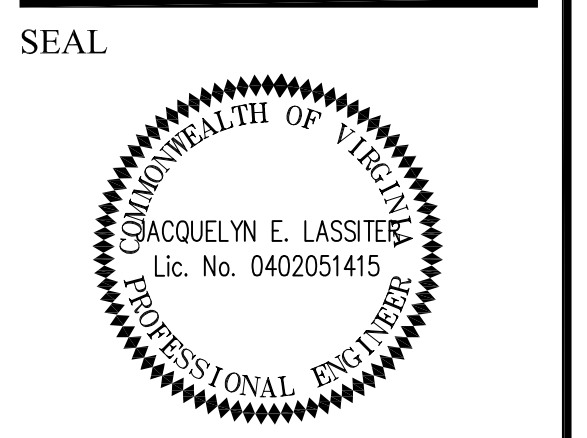
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Project Name and Location
Traffic Signal Design
Maintenance of Traffic - Phase II
Arlington Boulevard & George Mason Drive
ID#41
TOS8

Designed: AK
Drawn: AK
Checked: JEL
Miss Utility Transmittal #:

Plotted: May 18, 2021
Plotted by: Kharkwa

Scale: 1" = 25'

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M-3