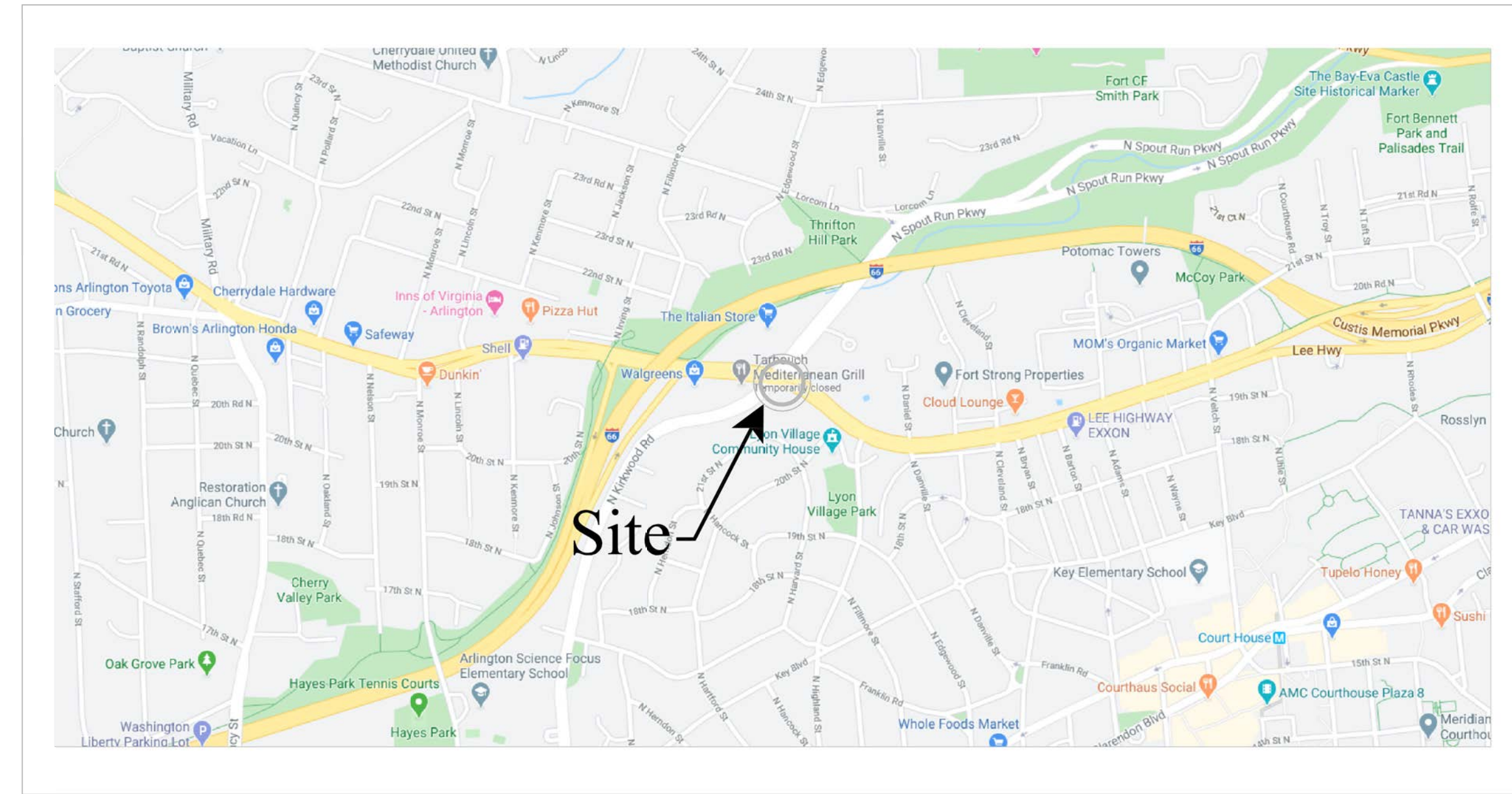




DEPARTMENT OF ENVIRONMENTAL SERVICES

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

Location Map
Scale: N.T.S.
Vicinity



Construction Drawings For:
Traffic Signal Modification
Route 29 (Lee Highway) and Spout Run Parkway TS#140
Project Number: TR07

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. MAINTENANCE

- 1. ARLINGTON COUNTY SHALL HAVE MAINTENANCE RESPONSIBILITY FOR ALL ROADWAY INFRASTRUCTURE (SIDEWALK, ROAD ASPHALT, DRAINAGE, CURB/CURB & GUTTER, ETC.) WITHIN COUNTY RIGHT-OF-WAY. THE COUNTY WILL ALSO MAINTAIN ALL TRAFFIC SIGNAL INFRASTRUCTURE INDEPENDENT OF VDOT AND COUNTY RIGHT-OF-WAY BOUNDARIES. VDOT SHALL HAVE MAINTENANCE RESPONSIBILITY FOR ALL ROADWAY INFRASTRUCTURE (SIDEWALK, ROAD ASPHALT, DRAINAGE, CURB/CURB & GUTTER, ETC.) OUTSIDE OF THE TRAFFIC SIGNAL, WITHIN VDOT RIGHT-OF-WAY.

E. 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.

F. 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.

G. 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. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

H. 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.

I. 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.

Table of Contents:

- T-1. COVER SHEET
C-1. ROADWAY LEGEND SHEET
C-2. EXISTING CONDITIONS & DEMOLITION
C-3. PROPOSED CONDITIONS
C-4. PROPOSED CURB RAMPS
C-5. CURB RAMP PROFILES
C-6. CURB RAMP DETAILS
C-7. STANDARD DETAILS
T-2. TRAFFIC SIGNAL MODIFICATION PLAN
T-3. COMMUNICATION PLAN
T-4. SIGNING AND MARKING PLAN
M-1. TRANSPORTATION MANAGEMENT PLAN
M-2. MAINTENANCE OF TRAFFIC - PHASE I
M-3. MAINTENANCE OF TRAFFIC - PHASE II

NOTE: ALL WORK TO BE PERFORMED WITHIN 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



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

SEAL



APPROVALS DATE

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

REVISIONS DATE

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

Project Name and Location

Traffic Signal Modification

Cover Sheet
Lee Highway and Spout Run Parkway
ID#140
TR07

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

Plotted: June 24, 2021
Plotted by: marquijt

Scale: N.T.S.

Sheet T-1

LINETYPE LEGEND

Table with columns: FEATURE, EXISTING, PROPOSED. Lists various features like BUILDING, CENTERLINE, 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: FEATURE, HATCH. Lists features like FULL DEPTH PAVEMENT, PROP 4" CONCRETE SIDEWALK, etc. with their corresponding hatch patterns.

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.

TREE PROTECTION

- 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.

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

TRAFFIC CONTROL

- 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...
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...
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

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



Table with columns: APPROVALS, DATE. Lists signatures and dates for Traffic Signal Engineer, Traffic Engineering Manager, Water, Sewer, Streets Bureau Chief, and Transportation Director.

Table with columns: REVISIONS, DATE. Empty table for tracking changes.

Traffic Signal Modification
Roadway Legend Sheet
Lee Highway and Spout Run Parkway
ID #140
TR07

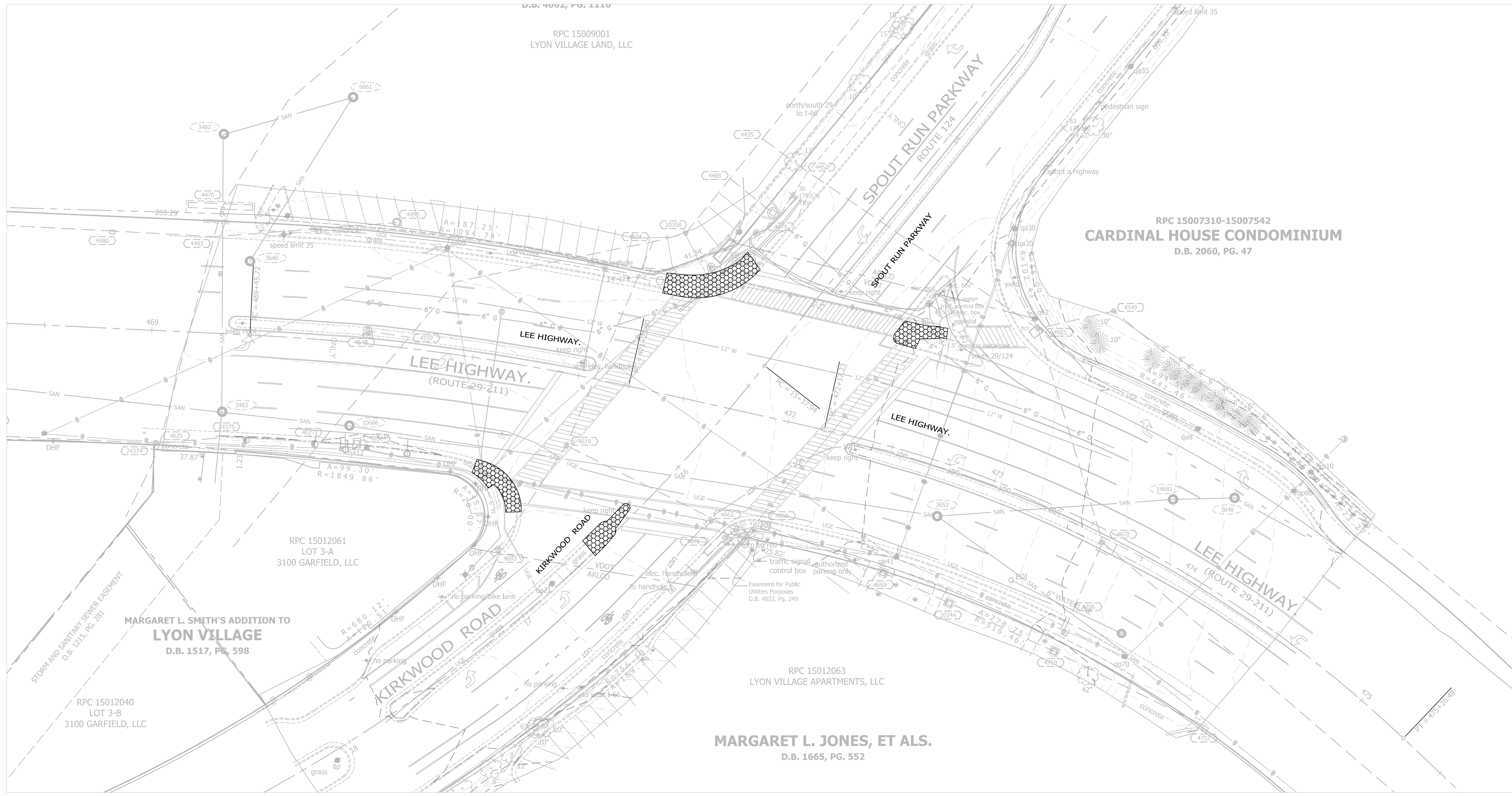
Designed: AK
Drawn: AK
Checked: JEL
Miss Utility Transmittal #:

Plotted: June 11, 2021
Plotted by: tangyq

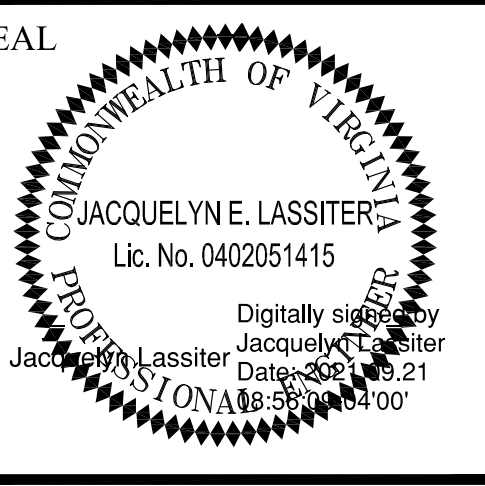
Scale: N.T.S.

REVISED: MARCH 03, 2020

Filename: TSD-Spout Run_ Existing and Proposed Conditions.dwg
Path: E:\Projects\4020102-4020102_0001\901_CAD Models and Sheets\04_Civil\Spout Run Parkway\Sheet



DEPARTMENT OF ENVIRONMENTAL SERVICES
 Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.5344
 Fax: 703.228.3719



APPROVALS	DATE
<i>John Jackson</i> TRAFFIC SIGNAL ENGINEER	9/21/2021
<i>Jim Nicksa</i> TRAFFIC ENGINEERING MANAGER	10/04/21
<i>John Lassiter</i> WATER, SEWER, STREETS BUREAU CHIEF	12.16.2021
<i>John Lassiter</i> TE&O BUREAU CHIEF	10/08/2021
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	10/11/21

REVISIONS	DATE

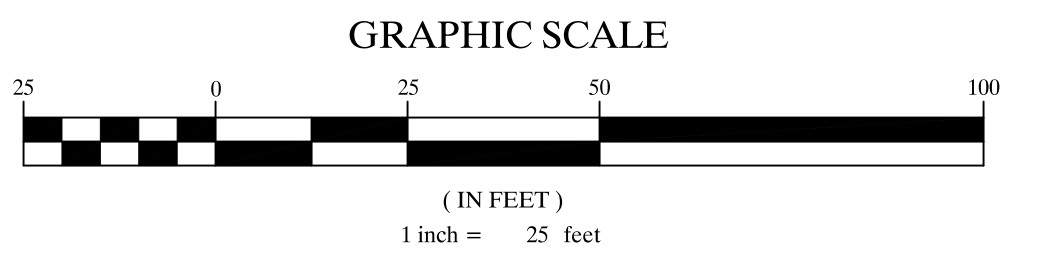
Project Name and Location
Traffic Signal Modification
 Existing Conditions and Demolition
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

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

Plotted: June 11, 2021
 Plotted by: tangyq

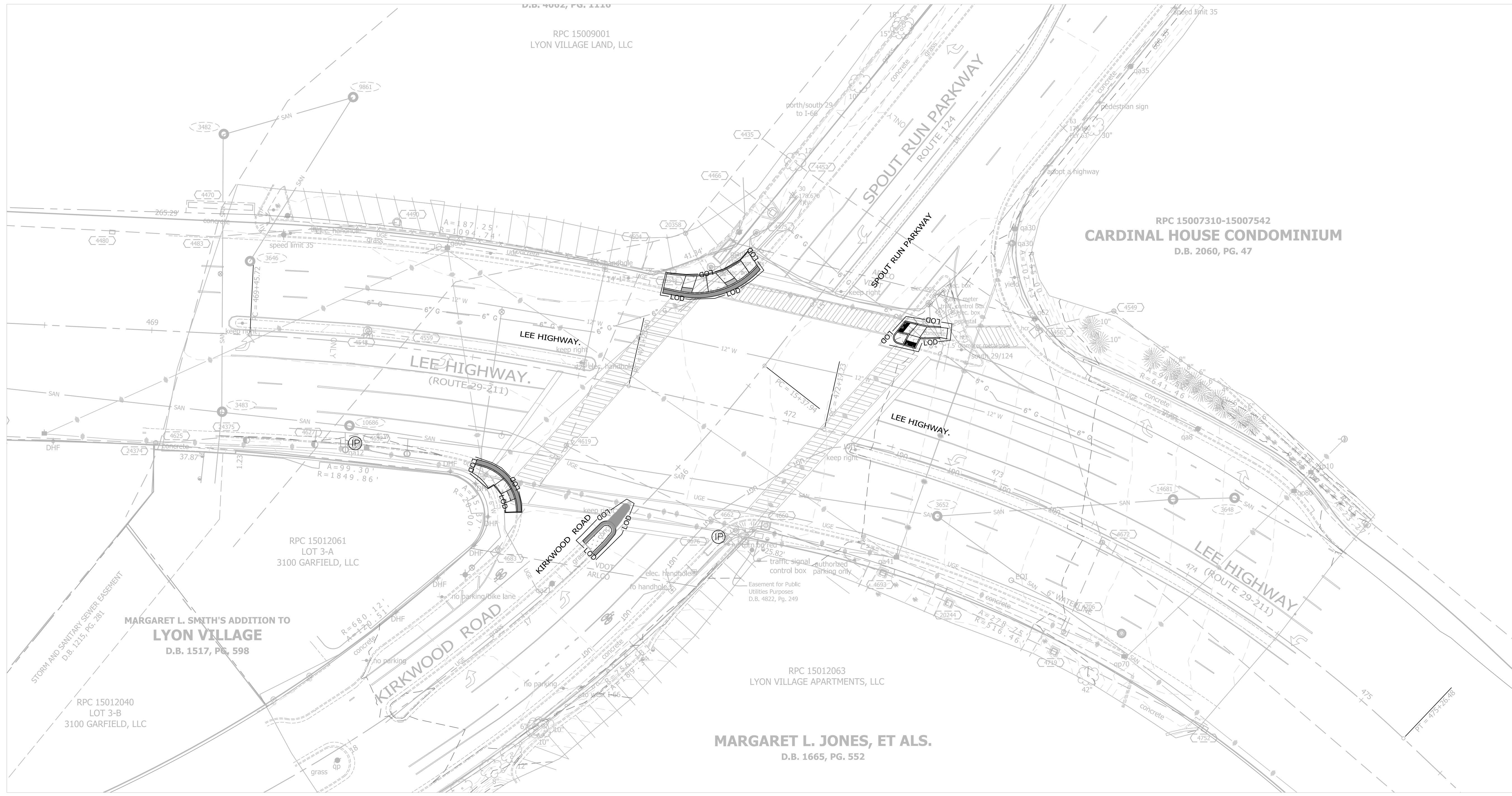
Scale: 1" = 25'

Sheet
C-2



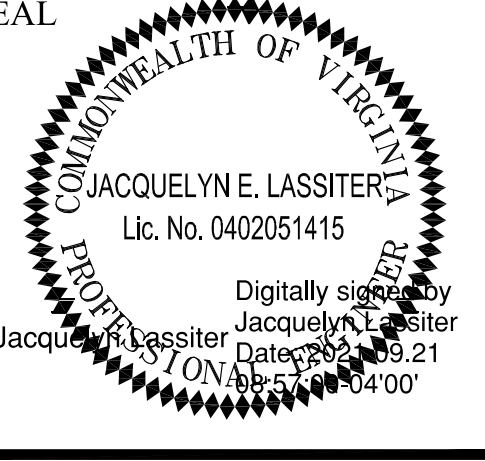
REVISED: MARCH 03, 2020

Filename: TSD-Spout Run_ Existing and Proposed Conditions.dwg
Path: I:\Projects\4020102-4020102_0001\901_CAD Models and Sheets\04_Civil\Spout Run Parkway\Sheet



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



APPROVALS	DATE
<i>John Jackson</i> TRAFFIC SIGNAL ENGINEER	9/21/2021
<i>Jim Nicksa</i> TRAFFIC ENGINEERING MANAGER	10/04/21
<i>John</i> WATER, SEWER, STREETS BUREAU CHIEF	12.16.2021
<i>John</i> TE&O BUREAU CHIEF	10/08/2021
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	10/11/21

REVISIONS	DATE

Project Name and Location
Traffic Signal Modification
Proposed Conditions
Lee Highway and Spout Run Parkway
ID#140
TR07

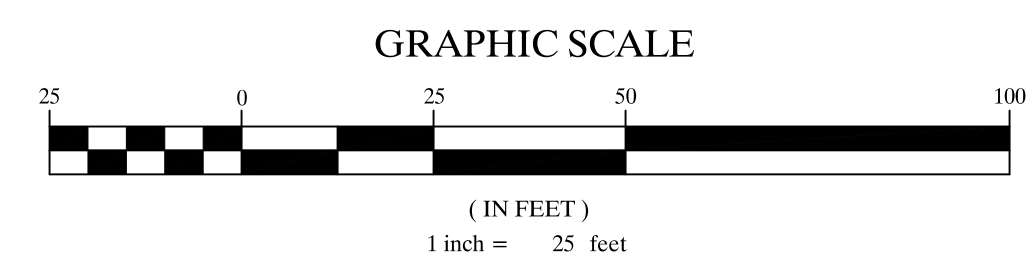
Designed: YT
Drawn: YT
Checked: MMH
Miss Utility Transmittal #:

Plotted: June 11, 2021
Plotted by: tangyq

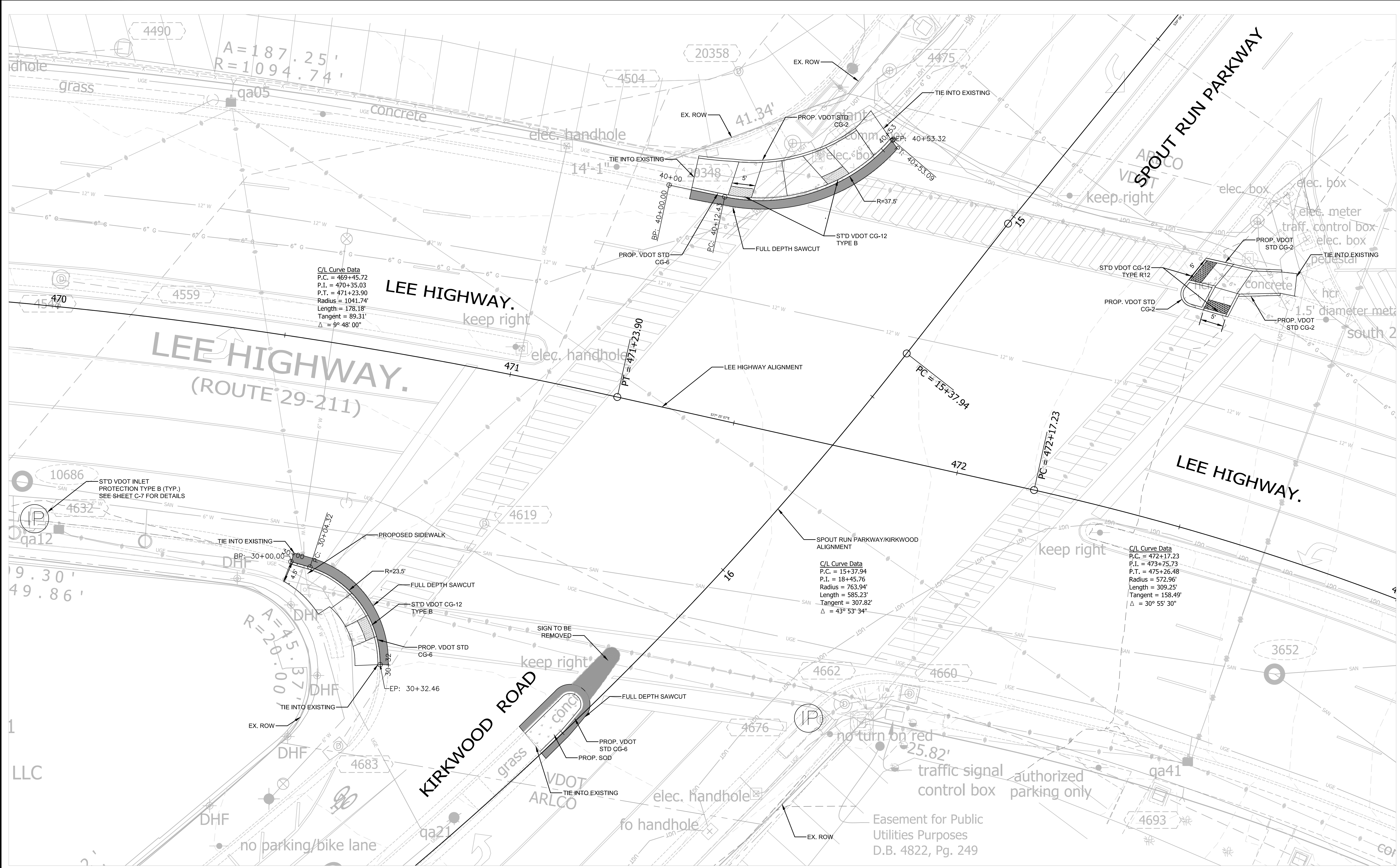
Scale: 1" = 25'

Sheet **C-3**

LEGEND
— LOD — LIMIT OF DISTURBANCE

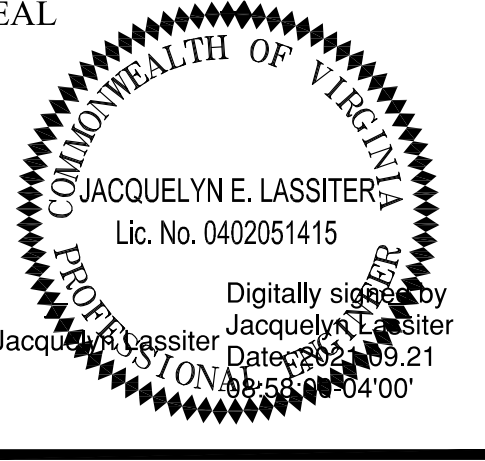


REVISED: MARCH 03, 2020



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



APPROVALS	DATE
<i>John Mason</i> TRAFFIC SIGNAL ENGINEER	9/21/2021
<i>John Mason</i> TRAFFIC ENGINEERING MANAGER	10/04/21
<i>John Mason</i> WATER, SEWER, STREETS BUREAU CHIEF	12.16.2021
<i>John Mason</i> T&O BUREAU CHIEF	10/08/2021
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	10/11/21

REVISIONS	DATE

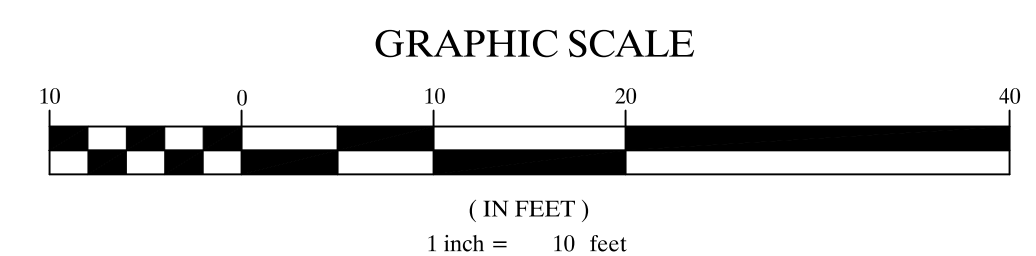
Traffic Signal Modification
 Proposed Curb Ramps
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

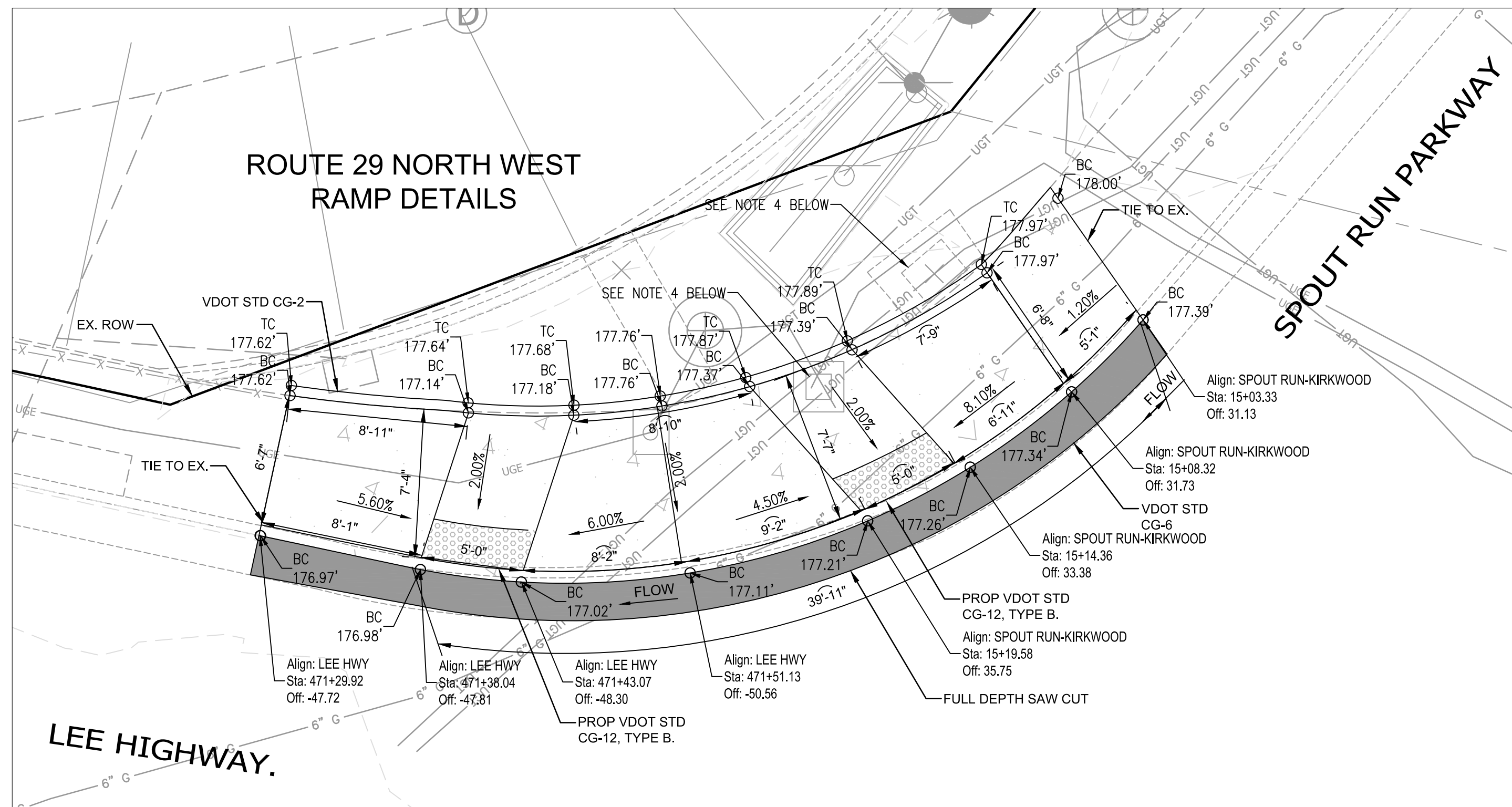
Designed: YT
 Drawn: YT
 Checked: MMH
 Miss Utility Transmittal #:

Plotted: June 11, 2021
 Plotted by: tangyq

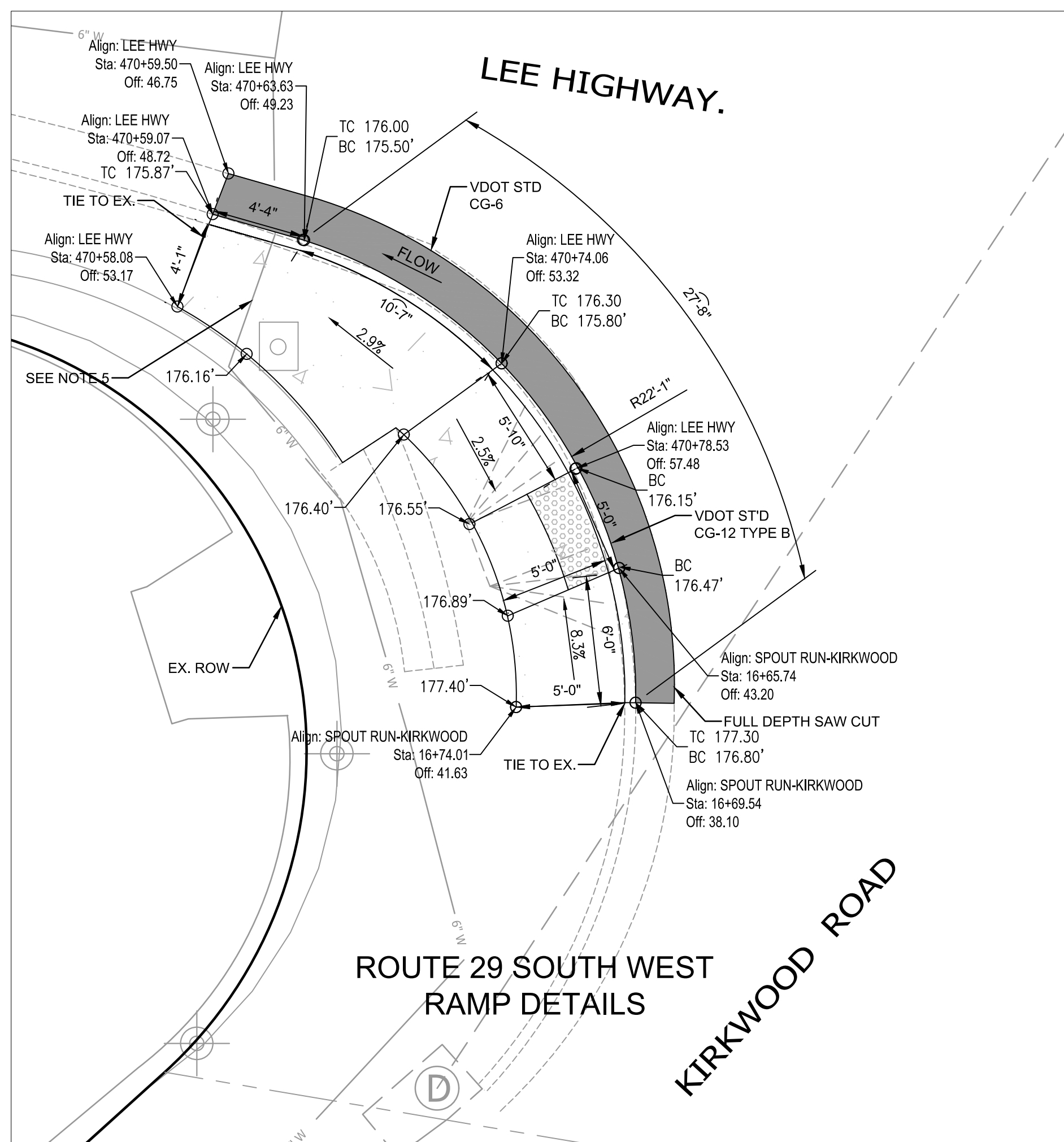
Scale: 1"= 10'

Sheet **C-4**

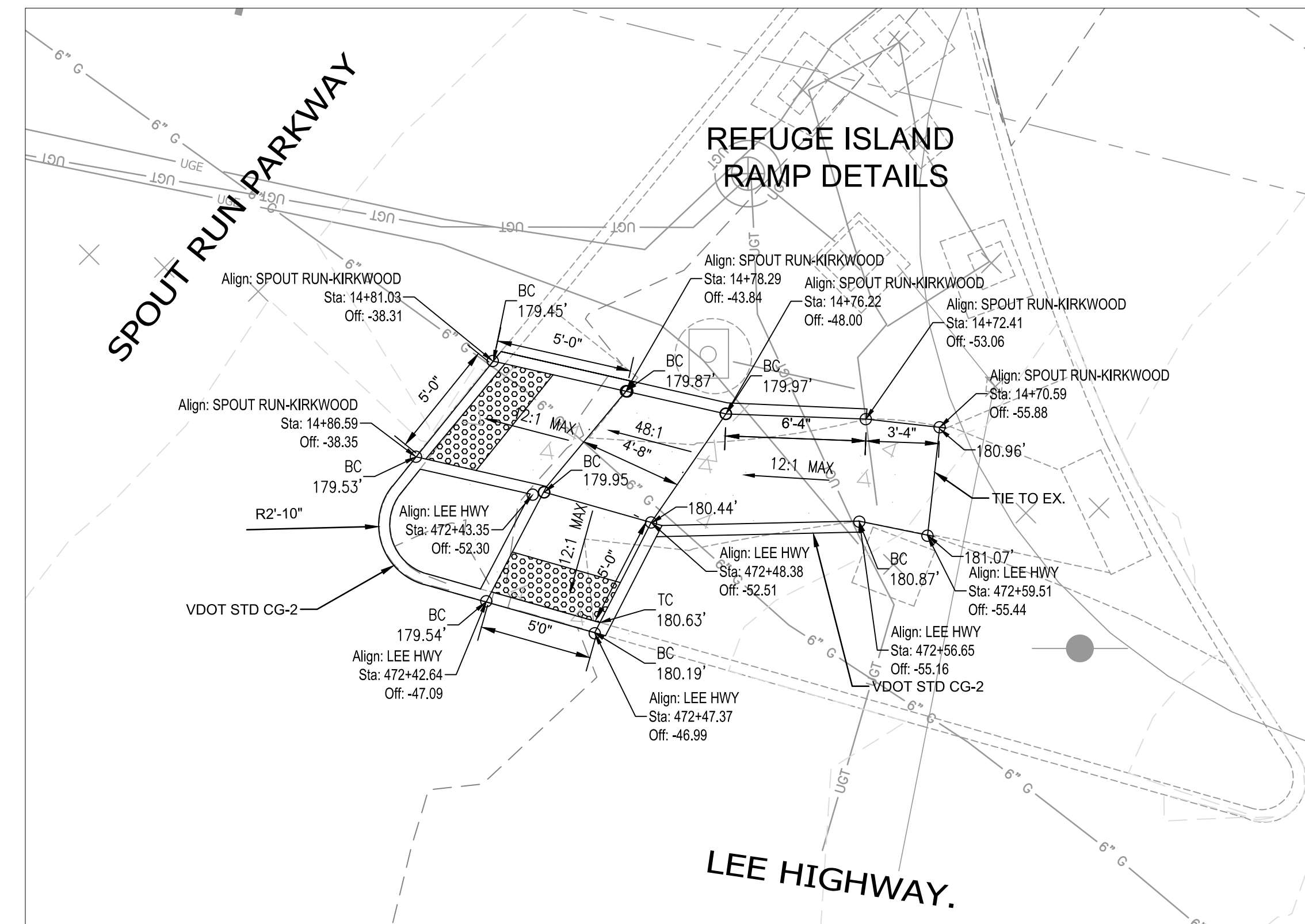




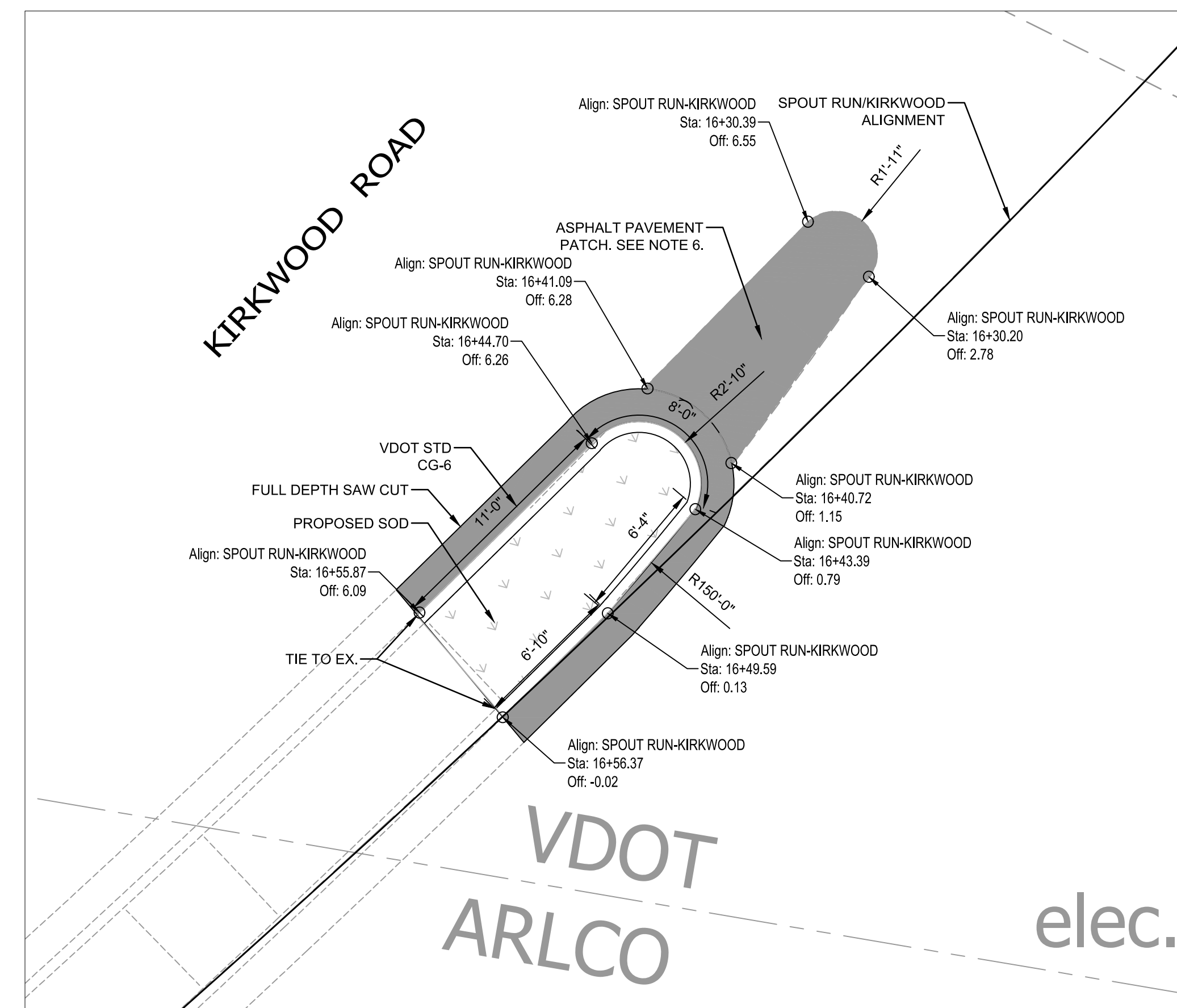
DETAIL A - CURB RAMP DETAILS AT N/W CORNER OF INTERSECTION



DETAIL C - CURB RAMP DETAILS AT S/W CORNER OF INTERSECTION



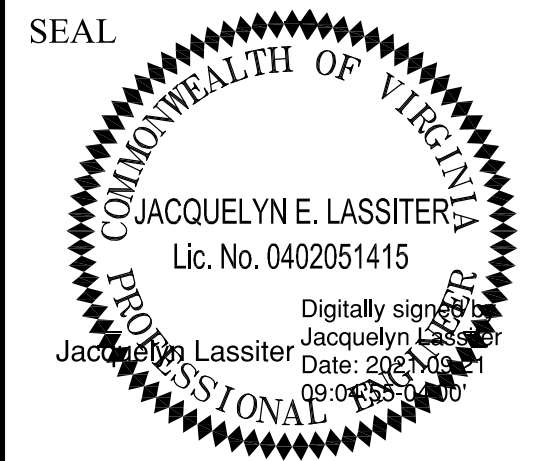
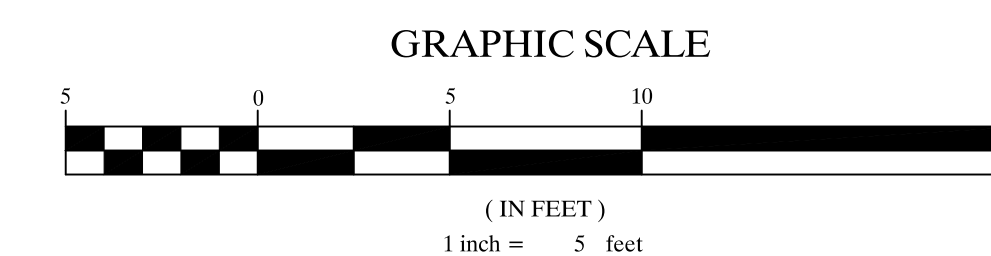
DETAIL B - CURB RAMP DETAILS AT N/E CORNER OF INTERSECTION



DETAIL D - NOSE MEDIAN DETAILS AT KIRKWOOD ROAD

NOTE:

1. ALL STATIONS AND OFFSETS ARE FROM THE CONSTRUCTION BASELINE.
2. ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD WP-2
3. FULL DEPTH SAWCUT SHALL BE 1" INSIDE THE EXISTING PAVEMENT
4. THE CONTRACTOR SHOULD ADJUST THE LOCATION OF THE ELECTRIC BOX TO BEHIND THE CURB LINE DURING CONSTRUCTION
5. 6" WATERLINE TO BE RELOCATED PRIOR TO INSTALATION OF TRAFFIC SIGNAL B OTHERS.
6. ASPHALT PATCH IS TO BE CONSTRUCTED WITH PAVEMENT SECTION ON SHEET C-7.



APPROVALS	DATE
<i>John V. ...</i>	9/21/2021
TRAFFIC SIGNAL ENGINEER	
<i>De ...</i>	10/04/21
TRAFFIC ENGINEERING MANAGER	
<i>...</i>	12.16.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>...</i>	10/08/2021
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	10/11/21
TRANSPORTATION DIRECTOR	

REVISIONS	DATE

Project Name and Location

Traffic Signal Modification

Curb Ramp Details

Lee Highway and Spout Run Parkway

ID#140

TR07

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

Plotted: August 16, 2021
 Plotted by: tangyq

Scale: 1" = 5'

FILENAME: TSD-Spout Run_Ramp Details and Profiles.dwg
 Path: \\sagroup.stninc.com\3\DEPA\Vol3\Projects\4020102\4020102_C_Civil\Spout Run Parkway\Sheet

REVISED: MARCH 03, 2020

2016 ROAD & BRIDGE STANDARDS

GENERAL NOTES:

- FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
- CURB SHALL BE SHAPED TO MATCH THE FACE OF ROADWAY CURB.
- SEE ROADWAY PLANS FOR MEDIAN AND REFUGE ISLAND DIMENSIONS.
- RAMPS AND CUT THROUGH'S SHALL BE ALIGNED WITH CROSSWALKS.
- THE RAMPS AND CUT THROUGH'S SHALL BE INSTALLED AND PAID FOR AS 4" HYDRAULIC CEMENT CONCRETE SIDEWALKS IN ACCORDANCE WITH SECTION 504 OF THE ROAD & BRIDGE SPECIFICATIONS. EXCAVATION OF MATERIAL FOR THE INSTALLATION OF THE SIDEWALK SHALL BE INCLUDED IN THE PRICE BID FOR 4" HYDRAULIC CEMENT CONCRETE SIDEWALK.
- CUT THROUGH'S LESS THAN 6" IN WIDTH SHALL NOT HAVE DETECTABLE WARNING'S INSTALLED.

CG-12 DETECTABLE WARNING SURFACE
 MEDIAN AND REFUGE ISLAND APPLICATIONS
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS SHEET 5 OF 5 204.05	REVISION DATE 04/19	SPECIFICATION REFERENCE 105 502
---	------------------------	---------------------------------------

2016 ROAD & BRIDGE STANDARDS

GENERAL NOTES:

- THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
- ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF SECTION 504 OF THE SPECIFICATIONS FOR CG-12 DETECTABLE WARNING SURFACE. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS APPROVED PRODUCT LIST NUMBER 72.
- SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
- REQUIRED BARS ARE TO BE NO. 5 X 8" PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR. MINIMUM DEPTH OF RAMP FLOOR MINIMUM CONCRETE COVER 1/2".
- ROADWAY CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMP ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
- CURB RAMP ARE REQUIRED FOR SIDEWALKS AND SHARED USE PATHS. THE WIDTH OF THE CURB RAMP SHALL MATCH SIDEWALK WIDTH WHEN CURB RAMP ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
- DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
- CURB RAMP WILL BE INSTALLED AND LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. CURB RAMP SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC.
- RAMP MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
- DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
- WHERE CURB RAMP INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS, THE DETECTABLE WARNING SURFACE SHALL HAVE 2" FACTORY MADE OR FIELD-MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB. SEE CG-12-RS PAGES 204.06 AND 204.07 FOR METHODS OF INSTALLING DETECTABLE WARNING'S ON A RADIUS.

CG-12 DETECTABLE WARNING SURFACE
 (GENERAL NOTES)
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS SHEET 1 OF 5 204.01	REVISION DATE 04/19	SPECIFICATION REFERENCE 105 502 504
---	------------------------	--

2016 ROAD & BRIDGE STANDARDS

NOTES:

- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- CONCRETE TO BE CLASS AS F CAST IN PLACE, 4000 PSI F PRECAST.
- CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
- THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" DEPTH OR INCREASED AS MUCH AS 3" DEPTH IN ORDER THAT THE BOTTOM OF CURB WILL CONFORM 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.
- CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-6 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.

STANDARD 6" CURB
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 201.01	REVISION DATE 20101	SPECIFICATION REFERENCE 105 502
---	------------------------	---------------------------------------

2016 ROAD & BRIDGE STANDARDS

NOTES:

- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- CONCRETE TO BE CLASS AS F CAST IN PLACE, 4000 PSI F PRECAST.
- COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) CURB & GUTTER.
- FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF THE PAVEMENT.
- ALLOWANCE 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 GS URBAN STANDARDS.

COMBINATION 6" CURB AND GUTTER
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 201.03	REVISION DATE 04/19	SPECIFICATION REFERENCE 105 502
---	------------------------	---------------------------------------

2016 ROAD & BRIDGE STANDARDS

INLET PROTECTION (TYPE B)
 CURB INLETS USING SEDIMENT RETENTION ROLL
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS SHEET 2 OF 3 103.10	REVISION DATE 04/19	SPECIFICATION REFERENCE 107 142 244 303
---	------------------------	---

2016 ROAD & BRIDGE STANDARDS

ASPHALT PAVEMENT WIDENING
 FOR WIDENING SUBJECT TO TRAFFIC
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 303.02	REVISION DATE	SPECIFICATION REFERENCE 315
---	---------------	--------------------------------

PAVEMENT SECTION DETAIL
 NOT TO SCALE

SURFACE - 2" ASPHALT CONCRETE, TYPE SM-9.5D ESTIMATED AT 238 LBS/YD2
 BASE - 12" ASPHALT CONCRETE, TYPE BM-25.0A
 SUBBASE - MIN 8" AGGREGATE BASE MATERIAL, TYPE I, SIZE NO. 21B OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE, WHICHEVER IS GREATER.



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>	9/21/2021
<i>[Signature]</i>	10/04/21
<i>[Signature]</i>	12.16.2021
<i>[Signature]</i>	10/08/2021
<i>[Signature]</i>	10/11/21

REVISIONS	DATE

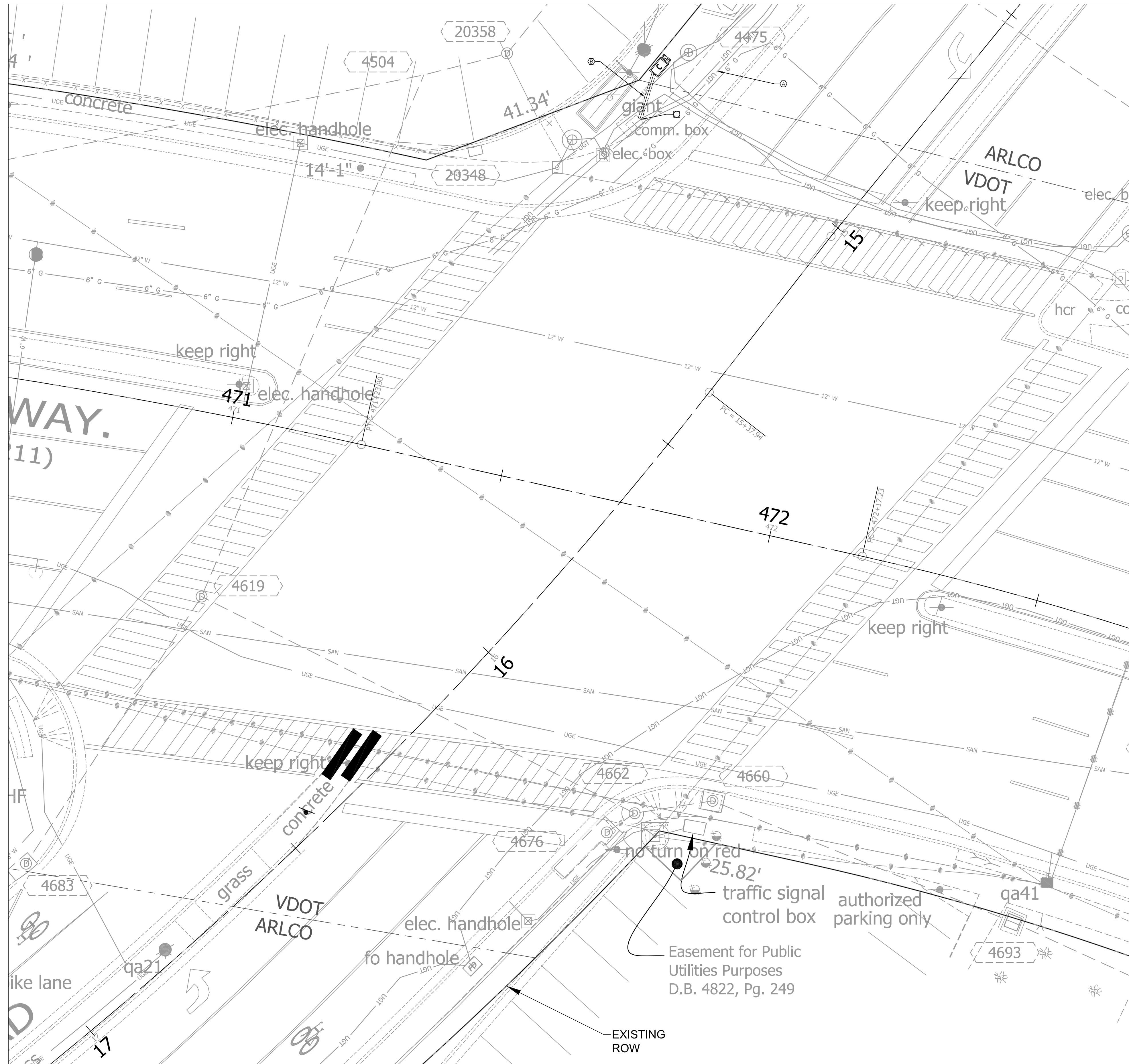
Project Name and Location
Traffic Signal Modification
 Standard Details
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

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

Plotted: August 16, 2021
 Plotted by: tangyq
 Scale: NTS

REVISED: MARCH 03, 2020

COMMUNICATION PLAN DETAIL
(SCALE: 1"=10')



CONDUIT & CABLE RUNS

- (A) 2-2" CONDUIT (EXISTING)
1-24-STRAND FIBER OPTIC CABLE
- (B) 1-2" CONDUIT (TRENCHED)
1-12-STRAND FIBER OPTIC CABLE

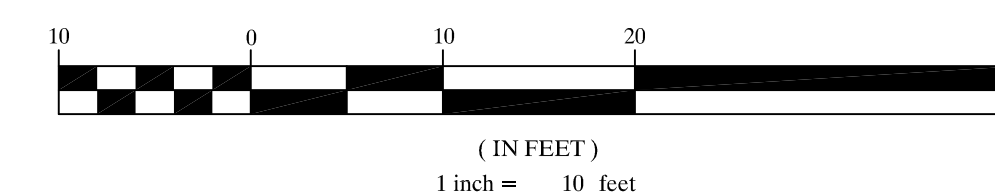
DEMOLITION & CONSTRUCTION NOTES

- (1) TIE PROPOSED CONDUIT INTO EXISTING COMMUNICATIONS JUNCTION BOX PER STD 61-04.

LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (61-02)		
Signal Junction Box (61-04)		
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		
FYA 4-Section Vehicle Signal Head (LED)		

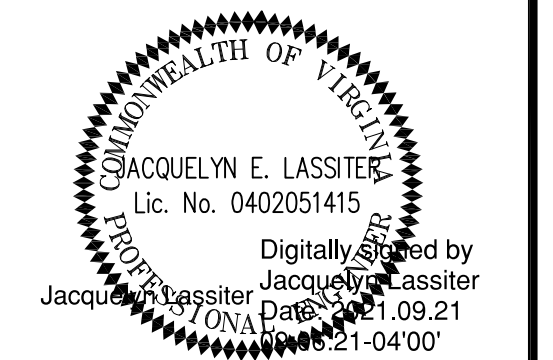
GRAPHIC SCALE



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

SEAL



APPROVALS DATE

<i>John Mason</i>	9/21/2021
TRAFFIC SIGNAL ENGINEER	
<i>Paul Nabe</i>	10/04/21
TRAFFIC ENGINEERING MANAGER	
<i>John</i>	12.16.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John</i>	10/08/2021
TE&O BUREAU CHIEF	
<i>Donna M. Leach</i>	10/11/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

NO.	DESCRIPTION	DATE

Project Name and Location
Traffic Signal Modification
 Communication Plan
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

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

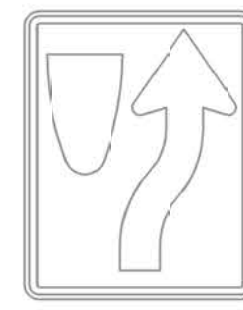
Plotted: June 09, 2021
 Plotted by: KharkwA

Scale: 1" = 10'

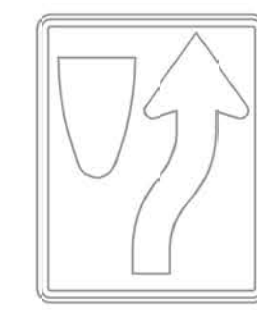
Sheet T-3

Filename: TSD_Lee Highway and Spout Run Parkway.dwg
 Path: I:\Projects\4020102\4020102_000190_CAD Models and Sheets\04_CT_Transportation\Spout Run Parkway

EXISTING SIGNS TO BE RELOCATED



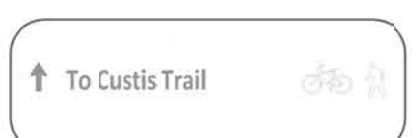
S-1
R4-7



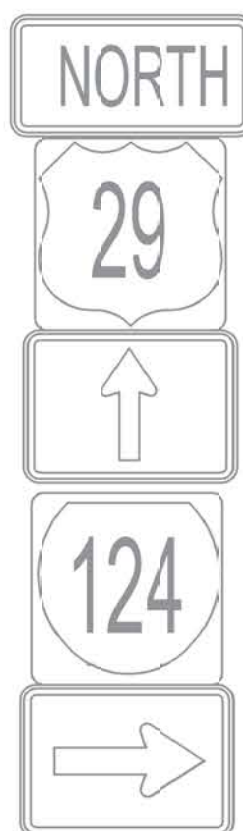
S-2
R4-7
(EXISTING SIGN)



S-3
R5-1R
(EXISTING SIGN)



S-5
(EXISTING SIGN)



S-6, S-7, S-8, S-9, S-10
M3-4, M1-4, M6-3,
M1-5, M6-1
(EXISTING SIGN)

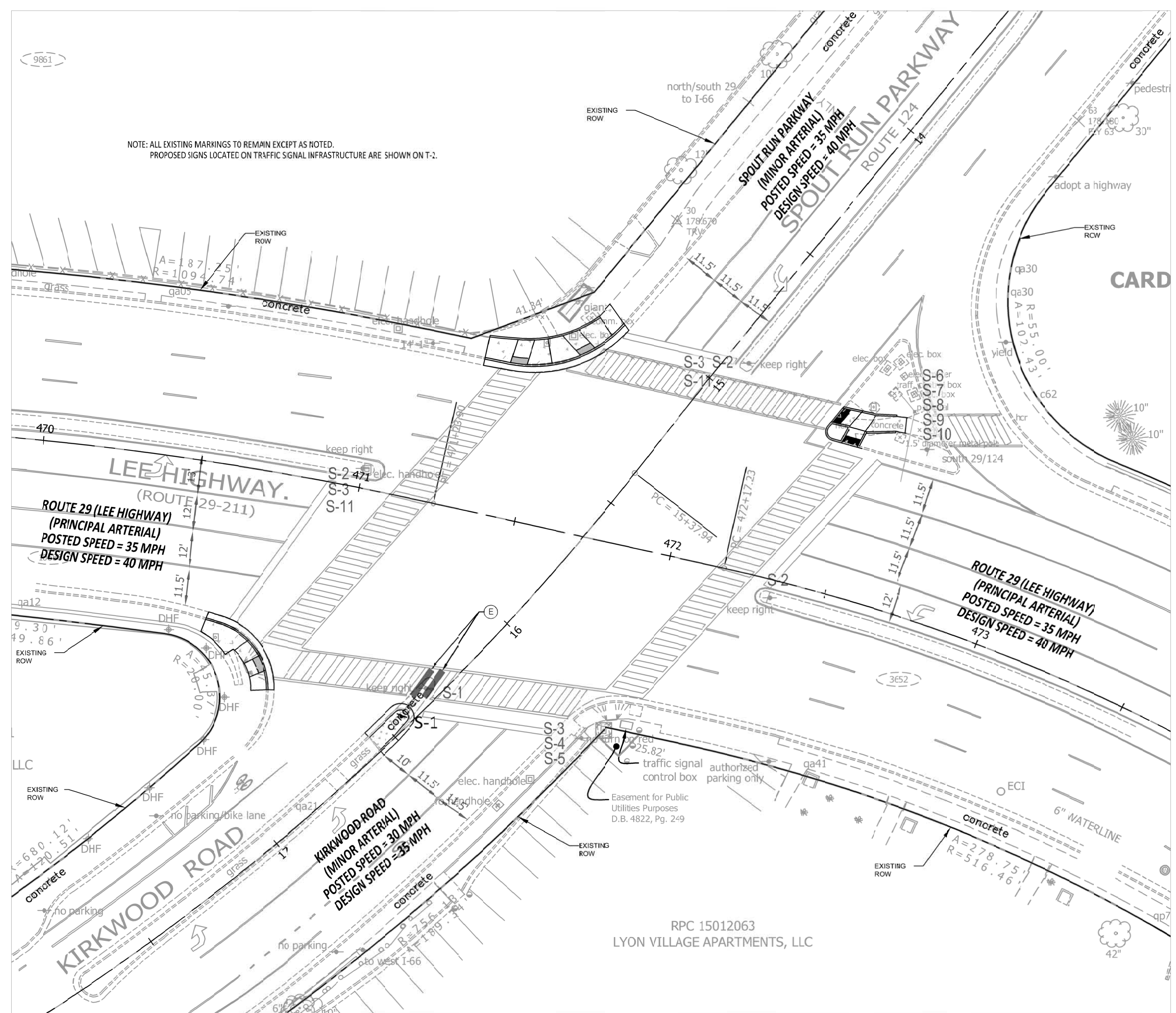


S-11
OM-3L
(EXISTING SIGN)

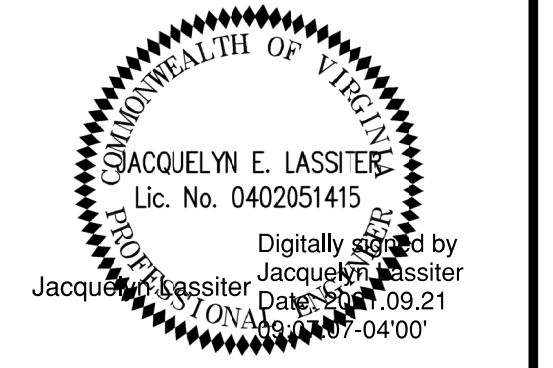


S-4
(EXISTING SIGN)

EXISTING SIGNS TO REMAIN



SEAL



APPROVALS DATE

John Mason	9/21/2021
Traffic Signal Engineer	
John Nibbe	10/04/21
Traffic Engineering Manager	
John Nibbe	12/16/2021
Water, Sewer, Streets Bureau Chief	
John Nibbe	10/08/2021
TE&O Bureau Chief	
Dennis M. Leach	10/11/21
Transportation Director	

REVISIONS DATE

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, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(D) TYPE B CLASS 1 WHITE 8" 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 2" 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

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:
 - THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - 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.
- ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS CALLED OUT OTHERWISE.

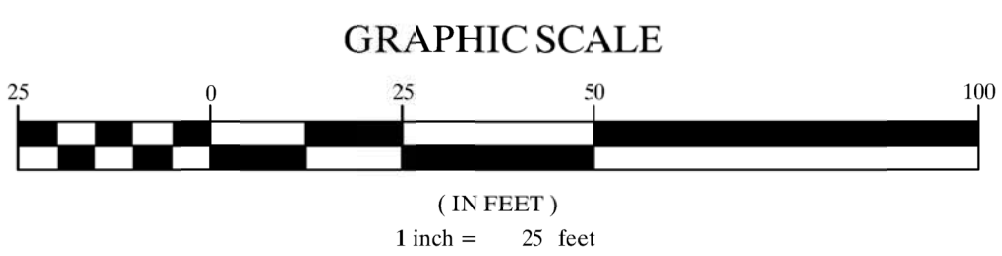
SIGN NOTES:

- 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



Project Name and Location

Traffic Signal Modification
 Signing and Marking Plan
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

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

Plotted: June 09, 2021
 Plotted by: KharkwA

Scale: 1" = 25'

TRANSPORTATION MANAGEMENT PLAN

REVISED: MARCH 03, 2020

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 Lee Highway and Spout Run Parkway/Kirkwood Road.
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:

DAY TIME	SINGLE LANE CLOSURE (MAJOR ARTERIAL)			
	Monday to Thursday	Friday	Saturday	Sunday
9:30AM to 3:00PM	9:30AM to 2:00PM	*NOT ALLOWED	*NOT ALLOWED	
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 is an existing pedestrian entrance to First Cash Pawn Shop on the SW corner.
There is an existing driveway entrance into Lyon Village Apartments on the SE corner.

Existing Intersections:
The project is located at the intersection of Lee Highway and Spout Run Parkway/Kirkwood Road.
All existing intersections are to remain open and functional during construction.

Existing Bus Stops:
There are no existing Bus Stops within the project limits.
- f. Identify the major types of Travelers:
The Traffic on the roadway consists primarily of passenger vehicles. The adjacent areas are all commercial/residential.
- 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 Lee Highway and one lane on Spout Run Parkway and Kirkwood Road with a minimum clear roadway width in accordance with VDOT Standard CS-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 project'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.

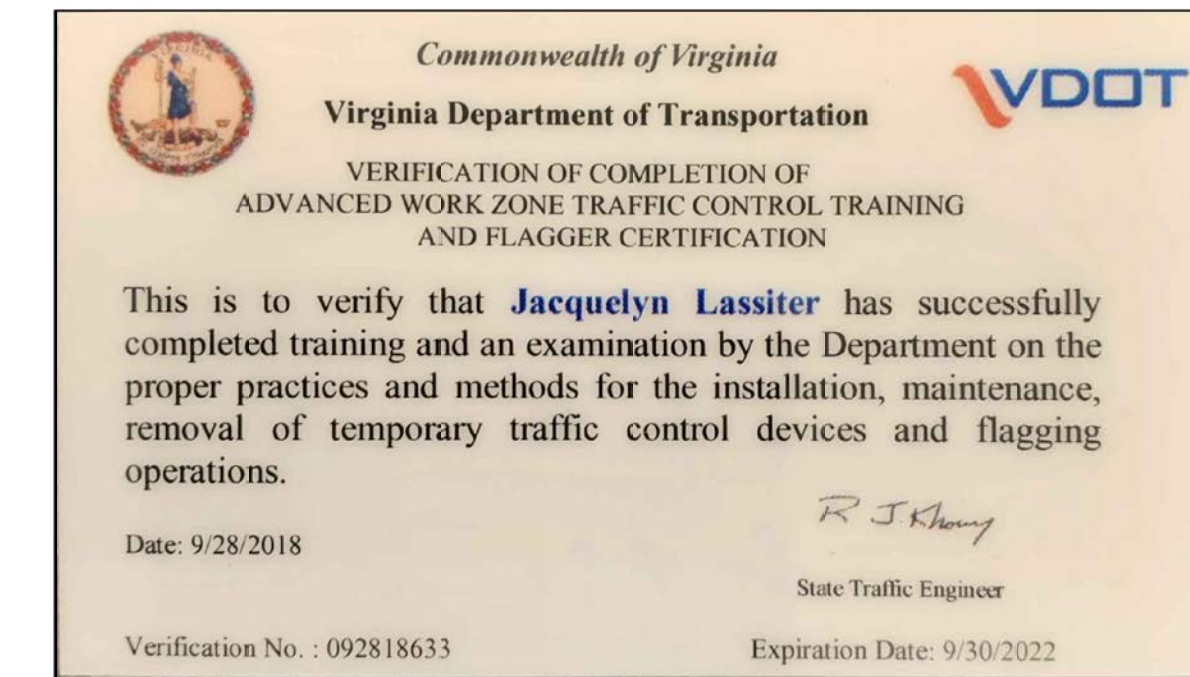
CONTACT NUMBERS

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 Lee Highway and Spout Run Parkway/Kirkwood Road 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.



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: _____

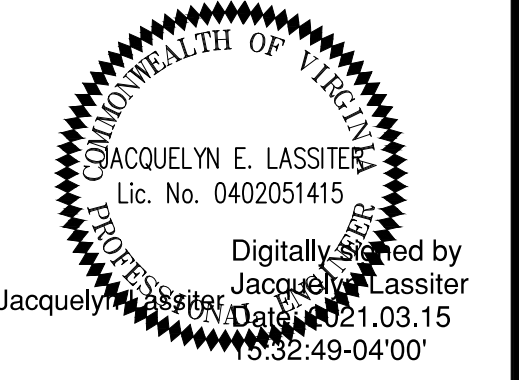
REVIEWED
 By Brian E. Fry at 4:01 pm, Mar 22, 2021



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

SEAL



APPROVALS DATE

<i>John McCann</i> TRAFFIC SIGNAL ENGINEER	9/21/2021
<i>John Hubbs</i> TRAFFIC ENGINEERING MANAGER	10/04/21
<i>John Hubbs</i> WATER, SEWER, STREETS BUREAU CHIEF	12.16.2021
<i>John Hubbs</i> TE&O BUREAU CHIEF	10/08/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	10/11/21

REVISIONS DATE

Project Name and Location
Traffic Signal Design
 Transportation Management Plan
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

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

Plotted: March 03, 2021
 Plotted by: Kharkwa

Scale: N.T.S.

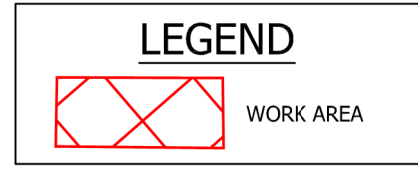
Filename: TSD_Lee Highway and Spout Run Parkway.dwg
 Path: E:\Projects\4020102-4020102-000190_CAD Models and Sheets\04_CIT_Transportation\Spout Run Parkway

REVISIONS: MARCH 03, 2020
 File: TSD_Lee Highway and Spout Run Parkway.dwg
 Path: I:\Projects\4020102\4020102_0001\90_CAD Models and Sheets\04_C1_Transportation\Spout Run Parkway

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

MAINTENANCE OF TRAFFIC GENERAL NOTES:

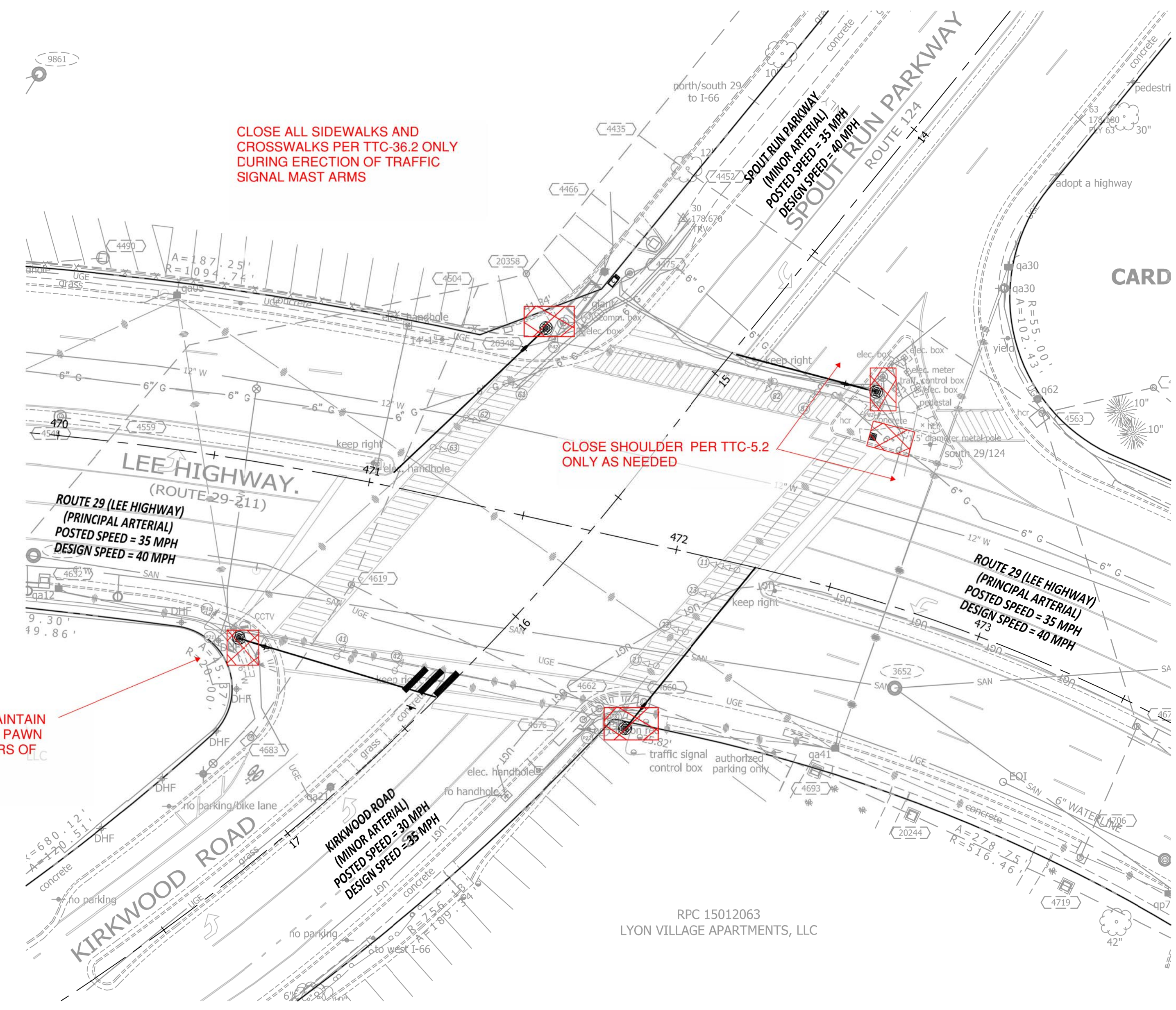
- TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST VERSION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, THIS MAINTENANCE OF TRAFFIC PLAN, AND/OR AS DIRECTED BY ARLINGTON 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 SHALL BE 11 FEET FOR BUS TRAVEL LANES. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE EFFECTIVE 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 MDBLOCK 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 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.
- NORMAL WORKING HOURS SHALL BE 9:00AM TO 4:00PM MONDAY THROUGH FRIDAY WITHIN ARLINGTON COUNTY RIGHT-OF-WAY AND 8:30AM 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 SHALL MAINTAIN ACCESS TO FIRST CASH PAWN DURING BUSINESS HOURS OF OPERATION

CLOSE ALL SIDEWALKS AND CROSSWALKS PER TTC-36.2 ONLY DURING ERECTION OF TRAFFIC SIGNAL MAST ARMS

CLOSE SHOULDER PER TTC-5.2 ONLY AS NEEDED



RPC 15012063
LYON VILLAGE APARTMENTS, LLC

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

SEAL

Digitally signed by Jacquelyn Lassiter on 2021.03.15 15:35:22-04'00'

APPROVALS	DATE
<i>John Mason</i> TRAFFIC SIGNAL ENGINEER	9/21/2021
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	10/04/21
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	12.16.2021
<i>John Nicks</i> TE&O BUREAU CHIEF	10/08/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	10/11/21

REVISIONS	DATE

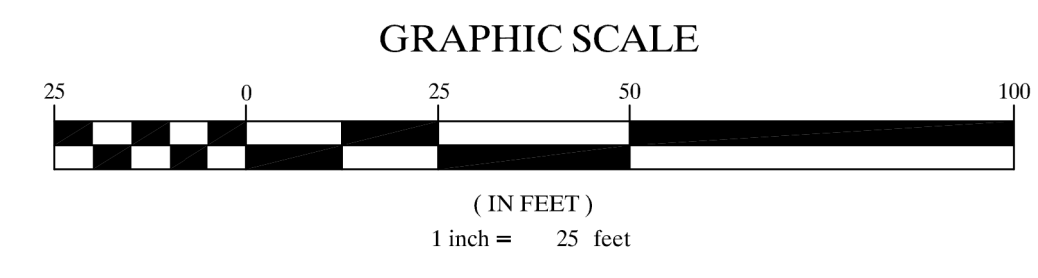
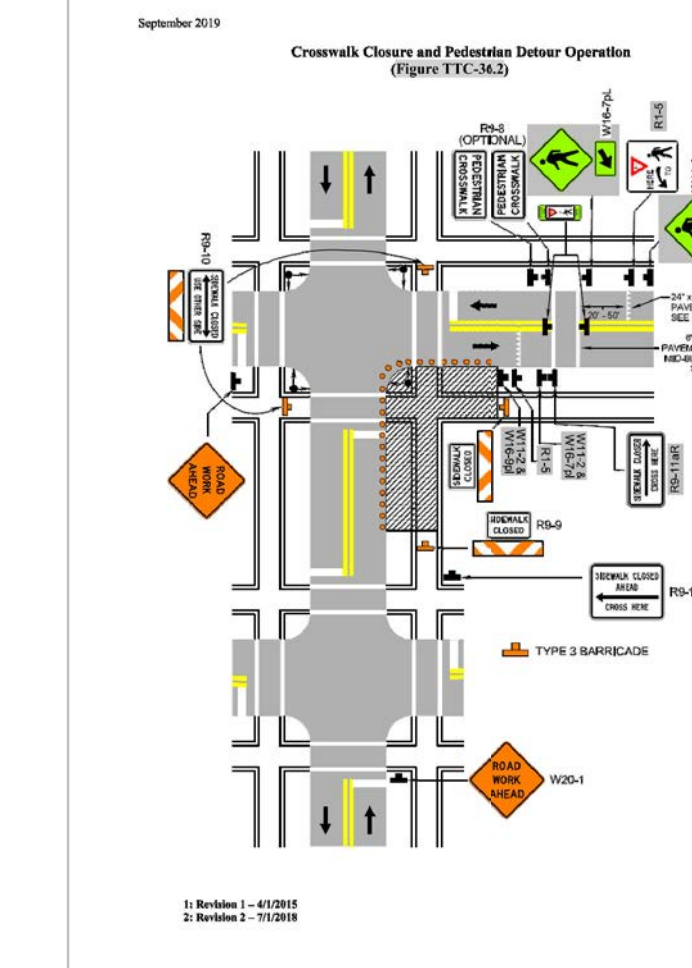
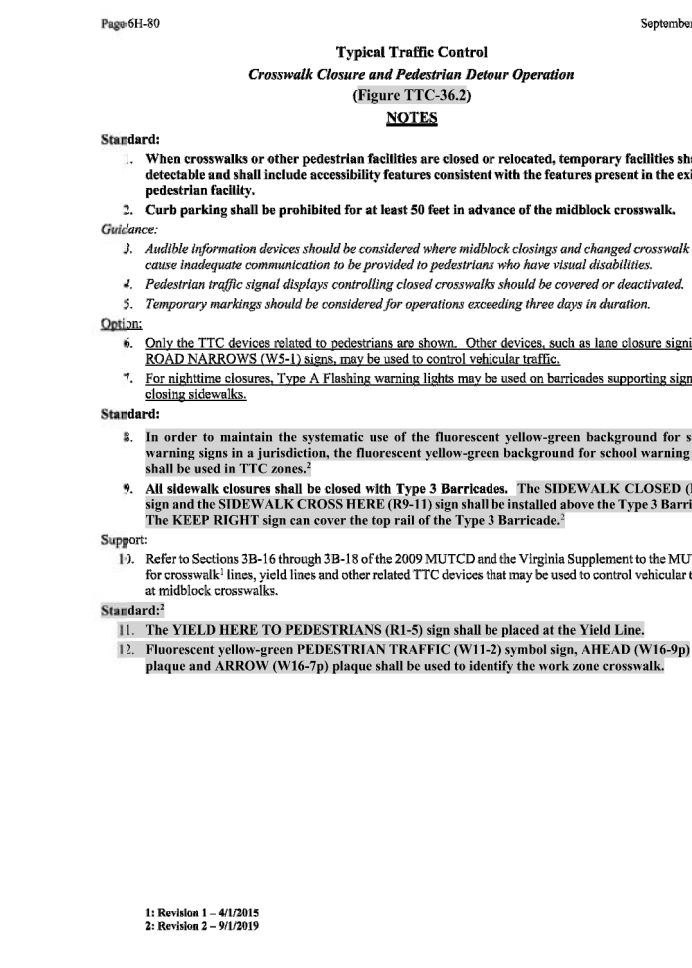
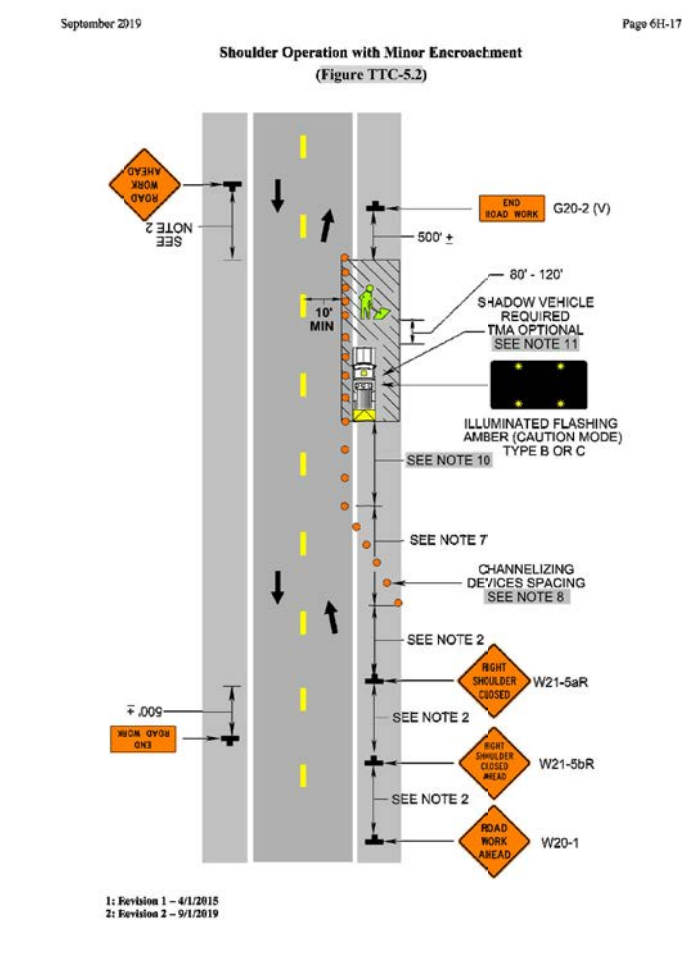
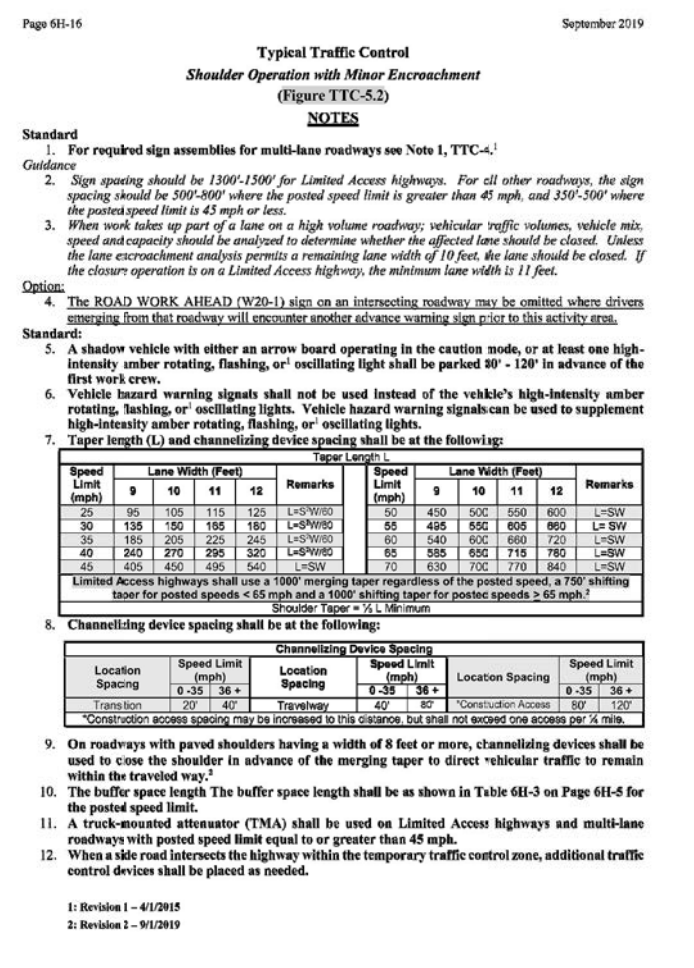
Project Name and Location
Traffic Signal Design
 Maintenance of Traffic - Phase I
 Lee Highway and Spout Run Parkway
 ID#140
 TR07

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

Plotted: March 08, 2021
 Plotted by: KharkwA

Scale: 1" = 25'

Sheet
M-2



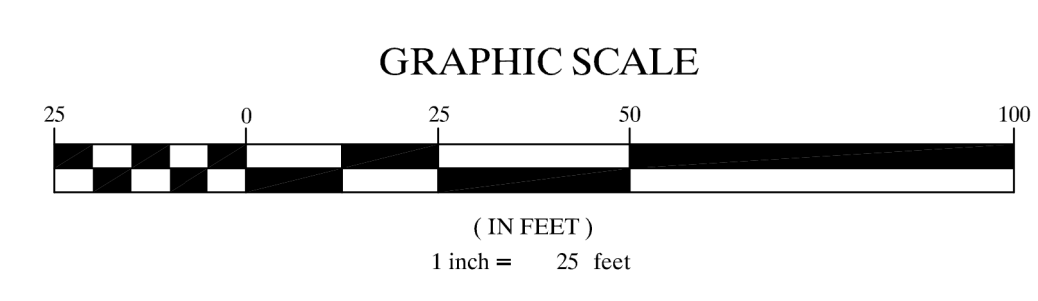
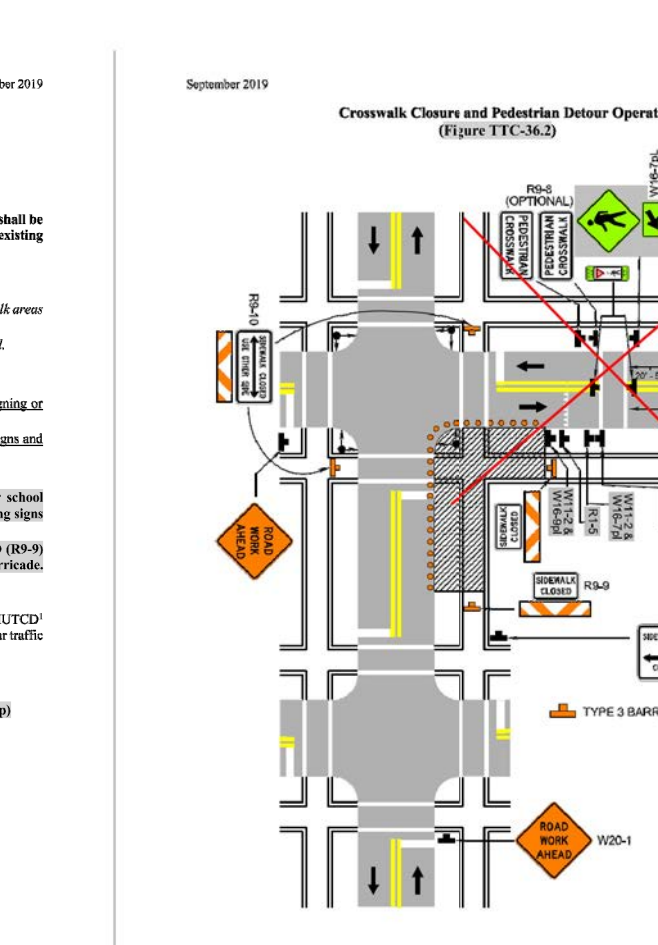
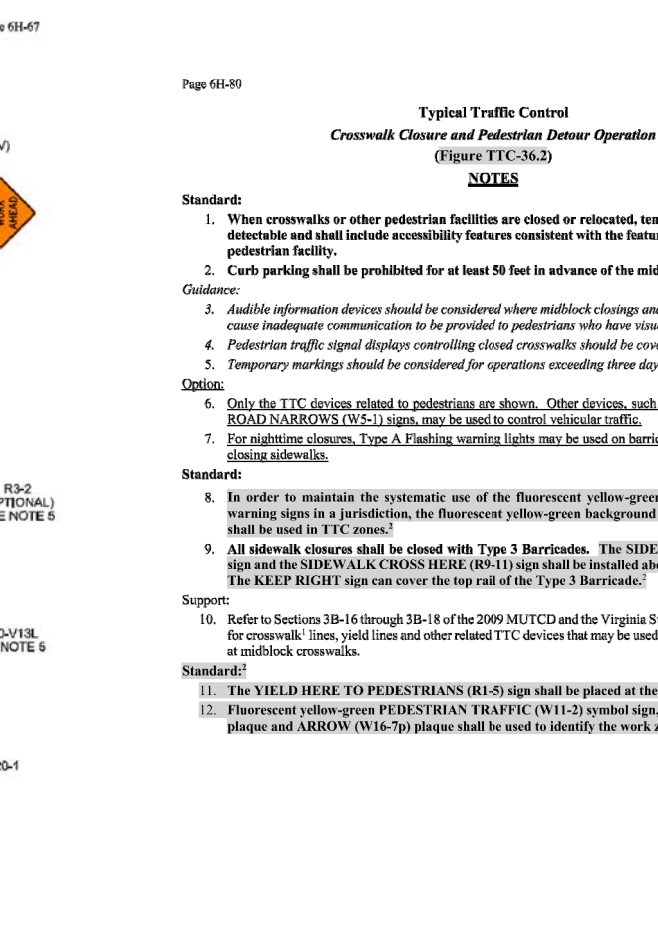
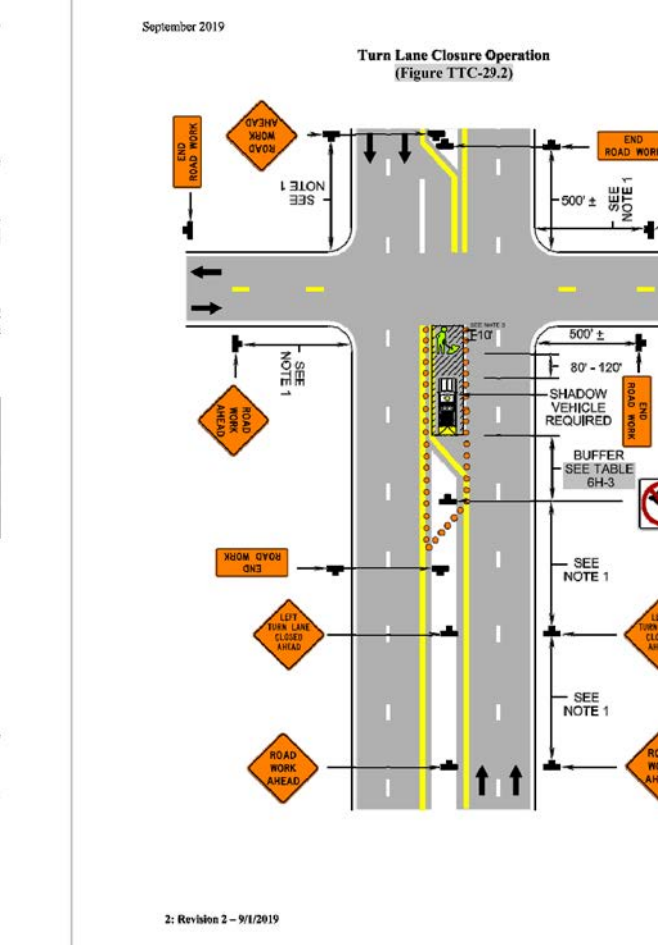
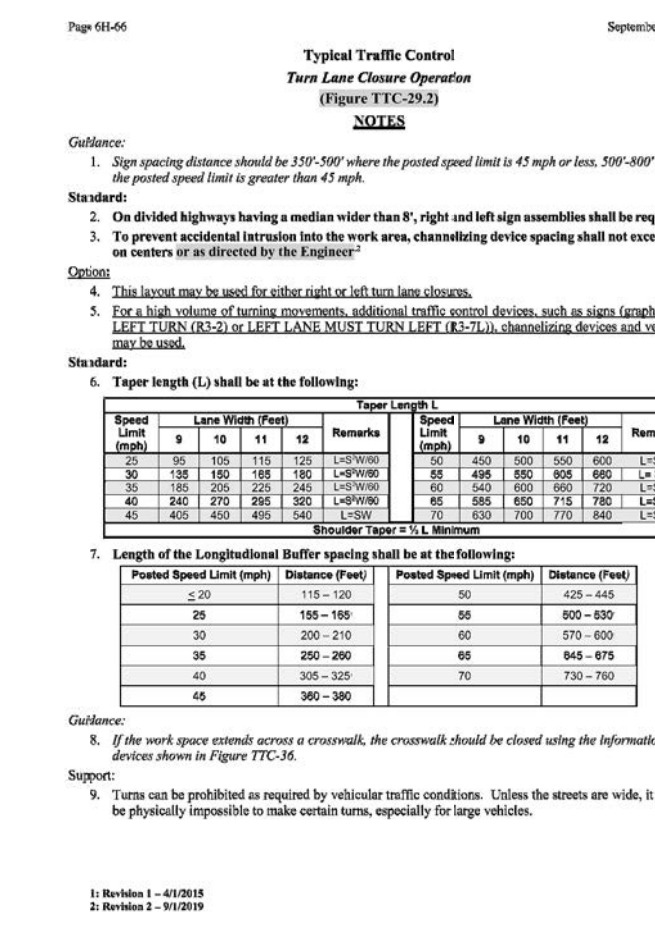
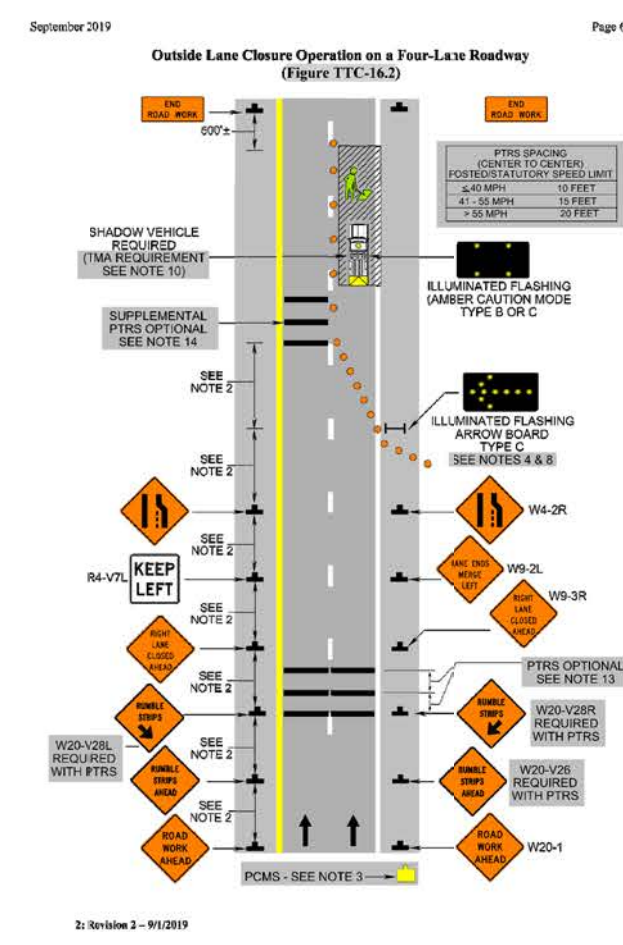
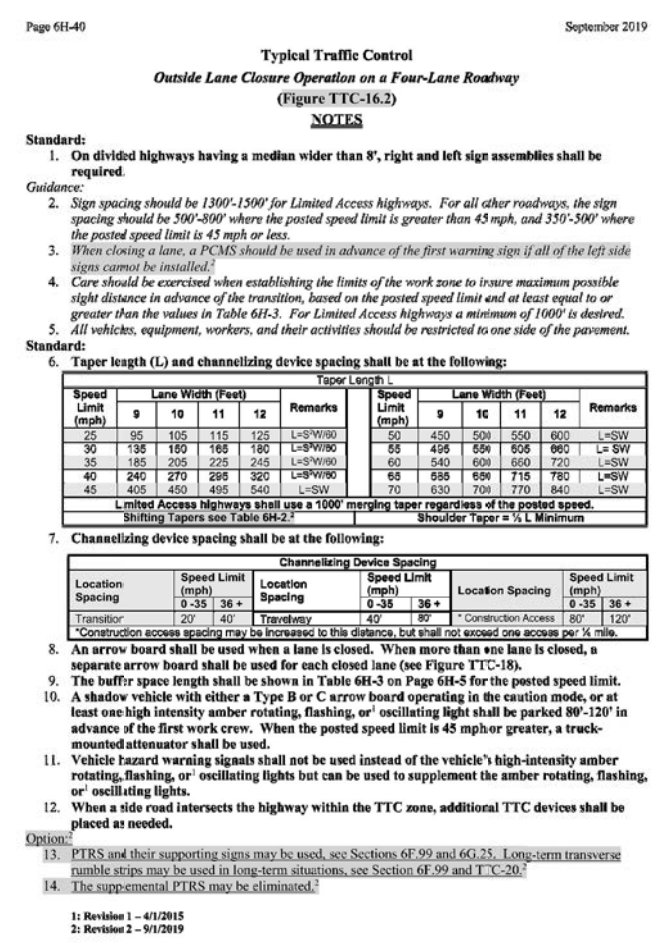
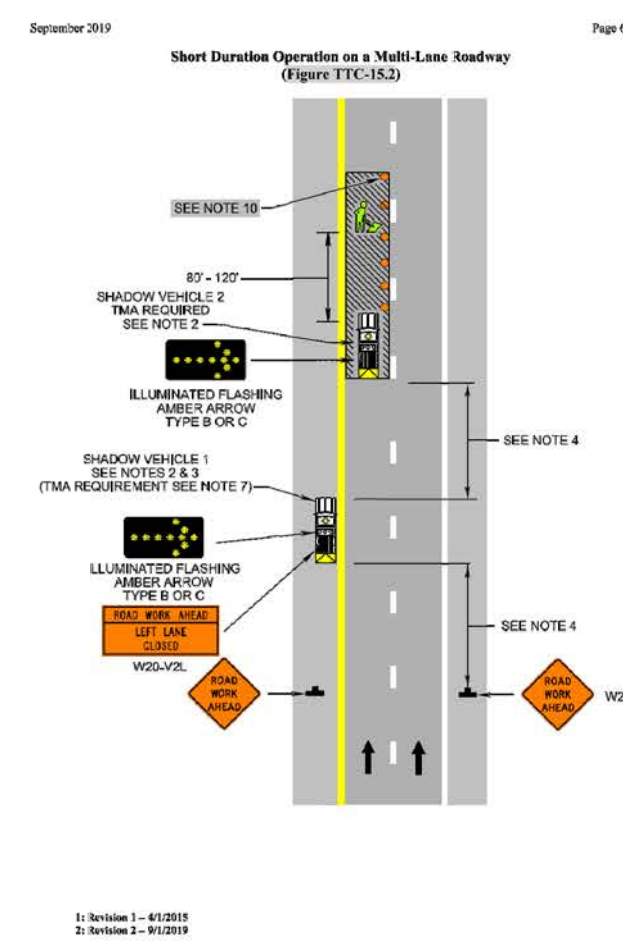
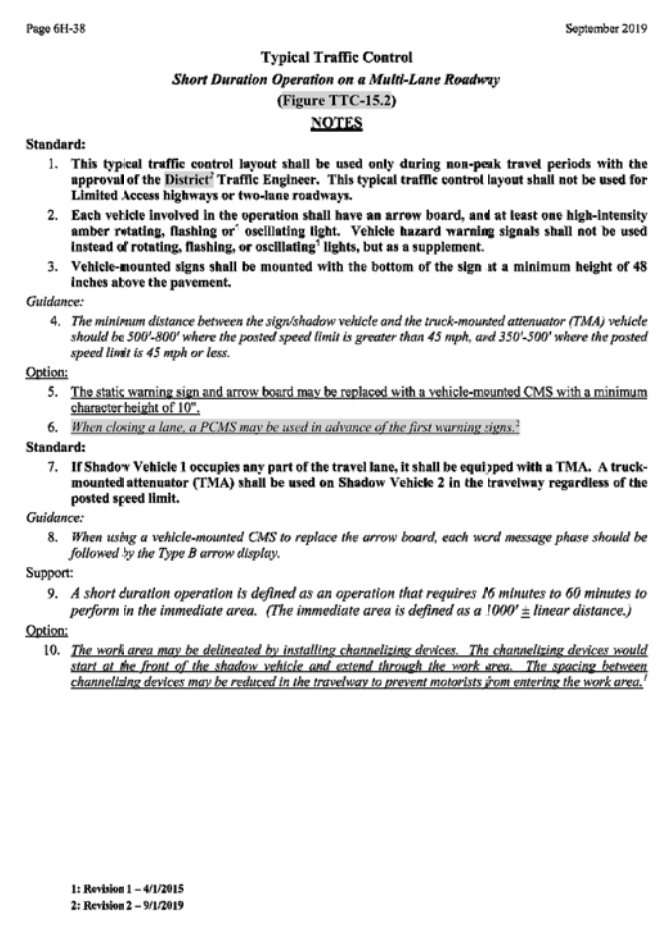
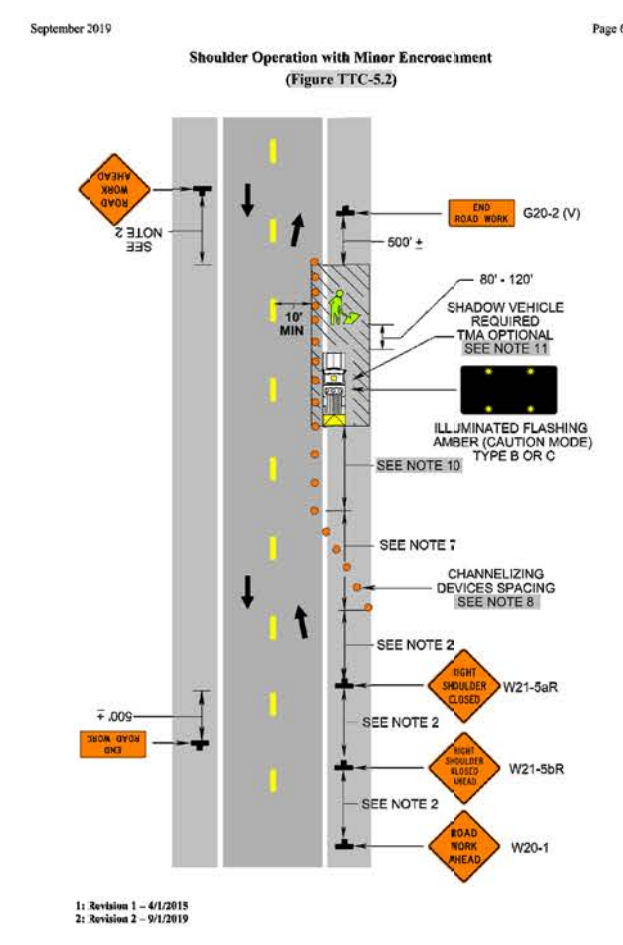
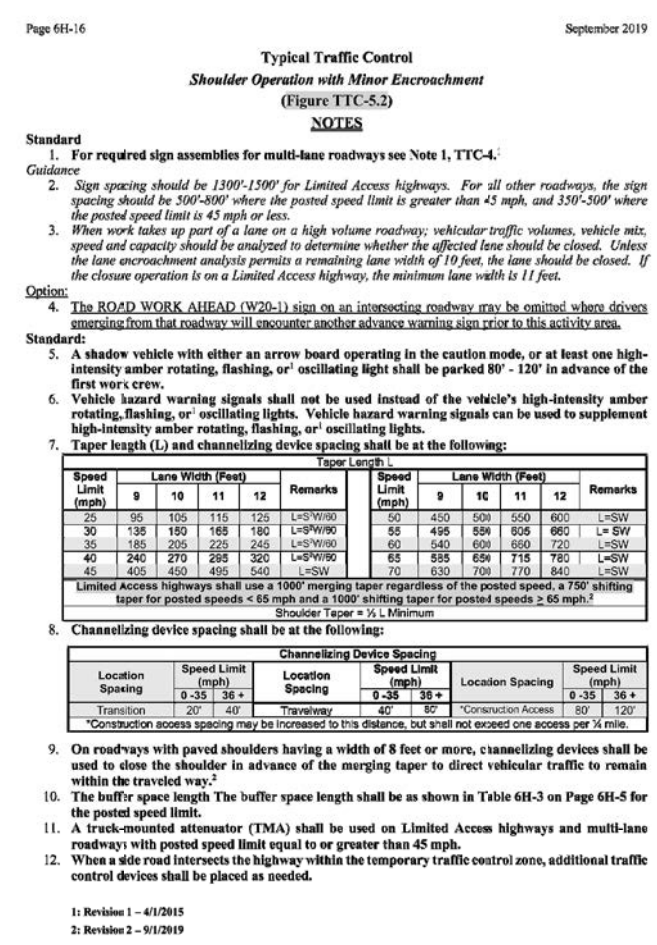
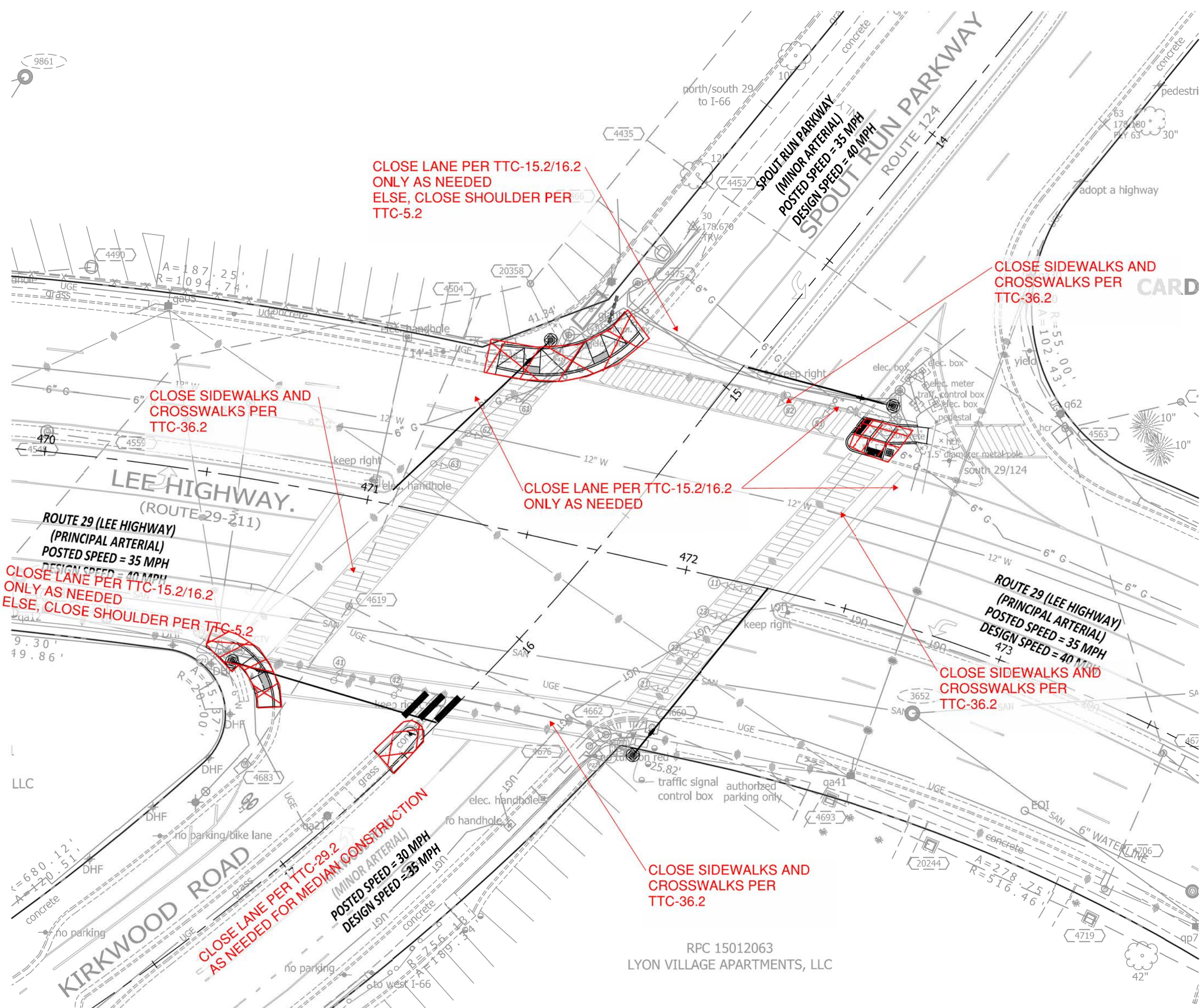
Route 29 (Lee Highway) and Spout Run Parkway

REVIS: MARCH 03, 2020

MOT PLAN - PHASE II - CONSTRUCT PROPOSED CURB RAMPS

MAINTENANCE OF TRAFFIC GENERAL NOTES:

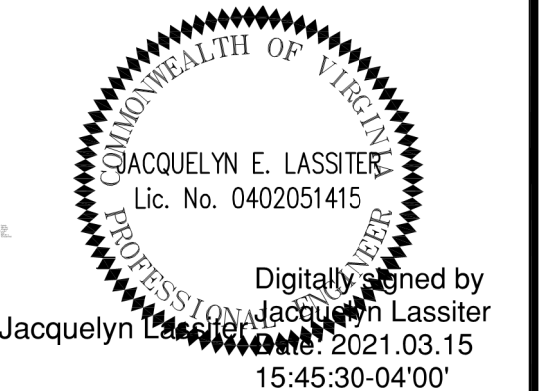
- 1. TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST VERSION OF THE VIRGINIA WORK AREA PROTECTION MANUAL... 2. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORK...



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

SEAL



APPROVALS DATE

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

REVISIONS DATE

Table with columns for Revision number, Description, and Date.

Traffic Signal Design
Maintenance of Traffic - Phase II
Lee Highway and Spout Run Parkway
ID#140
TR07

Project Name and Location

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

Plotted: March 08, 2021
Plotted by: KharkwaA

Scale: 1" = 25'

Sheet M-3