



**ENGINEER**  
DEPARTMENT OF  
ENVIRONMENTAL SERVICES

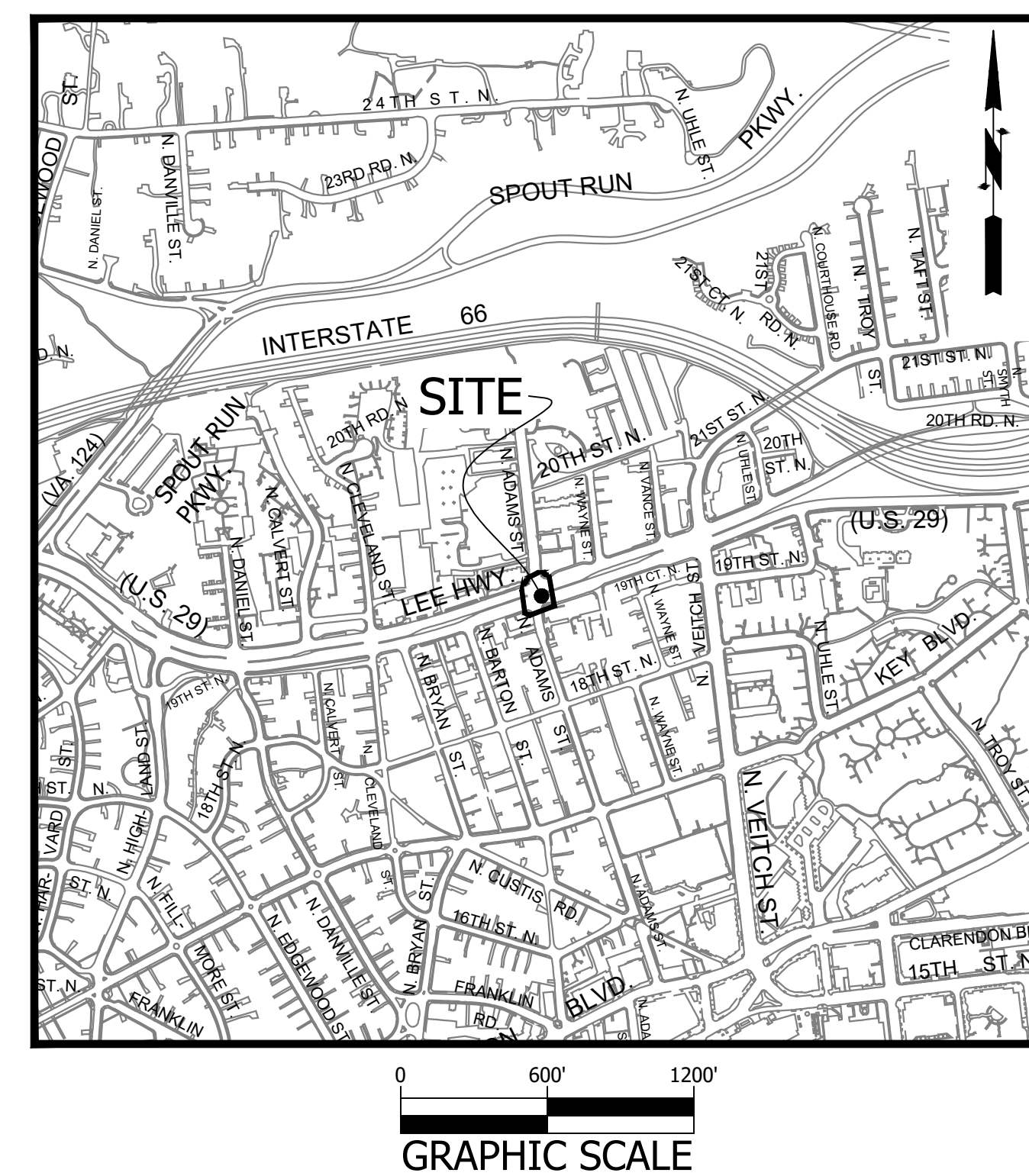
DIVISION OF TRANSPORTATION & DEVELOPMENT  
TRANSPORTATION ENGINEERING & OPERATION  
BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900,  
ARLINGTON, VA 22201  
PHONE: 703.228.3344 FAX: 703.228.3719  
WWW.ARLINGTONVA.US

**OWNER**  
DEPARTMENT OF  
ENVIRONMENTAL SERVICES

DIVISION OF TRANSPORTATION & DEVELOPMENT  
TRANSPORTATION ENGINEERING & OPERATION  
BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900,  
ARLINGTON, VA 22201  
PHONE: 703.228.3344 FAX: 703.228.3719  
WWW.ARLINGTONVA.US

**CONTRACTOR**  
TO BE DETERMINED

## LOCATION MAP



# CONSTRUCTION DRAWINGS FOR: LEE HIGHWAY & NORTH ADAMS STREET INTERSECTION

PROJECT CODE: TR07

## FINAL PLANS



DEPARTMENT OF  
ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
TRANSPORTATION ENGINEERING &  
OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719

COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

DESIGN TEAM SUPERVISOR \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

WATER, SEWER, STREETS BUREAU CHIEF \_\_\_\_\_

TE&O BUREAU CHIEF \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

REVISIONS DATE

Update for LDA Requirements 8/11/2023

## GENERAL NOTES:

### GENERAL CONSTRUCTION NOTES

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

### STORMWATER AND ENVIRONMENTAL PROTECTION

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

### TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARK & RECREATIONS STANDARD.

### TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. 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. ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

### WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE PROJECT OFFICER.

## TABLE OF CONTENTS

Sheet Number	Sheet Title
C1	COVER SHEET
C2	LEGEND
C3	DETAILS
C4	EXISTING CONDITIONS
C5	EXISTING CONDITIONS
C6	GEOMETRIC CONTROL PLAN
C7	EROSION AND SEDIMENT CONTROL NOTES
C8	EROSION AND SEDIMENT CONTROL DETAILS
C8A	EROSION AND SEDIMENT CONTROL DETAILS
C9	EROSION AND SEDIMENT CONTROL PLAN - PHASE I
C10	EROSION AND SEDIMENT CONTROL PLAN - PHASE II
C10A	LANDSCAPE PLAN
C11	POLLUTION PREVENTION PLAN I
C11A	POLLUTION PREVENTION PLAN IA
C12	POLLUTION PREVENTION PLAN II
C13	DEMOLITION PLAN
C14	PROPOSED CONDITIONS
C15	CURB EXTENSION DETAILS - NORTHEAST QUADRANT
C16	CURB EXTENSION DETAILS - NORTHWEST QUADRANT
C17	CURB EXTENSIONS DETAILS - SOUTHWEST AND SOUTHEAST QUADRANTS
C18	DRAINAGE DIVIDES PLAN
C19	STORM DRAINAGE COMPUTATION AND PROFILE
C20	SIGNAGE AND PAVEMENT MARKING PLAN
C20A	INTERSECTION SIGHT DISTANCE EXHIBIT
C21	TRAFFIC MANAGEMENT PLAN
C22	MAINTENANCE OF TRAFFICE PLAN
C23	TEMPORARY TRAFFIC CONTROL APPLICATIONS
TS-1	SIGNAL COVER SHEET
TS-2	SIGNAL PLAN
TS-3	SIGNAL COMMUNICATIONS PLAN

## UTILITY INFORMATION

### UTILITY OWNERS:

CATV / INTERNET:  
  
COMCAST  
AMY GOAD  
5304 KINGS CT  
FREDERICK, MD 217034  
(301)625-3407  
EMAIL:  
Amy\_Goad@cable.comcast.com

### ELECTRIC:

DOMINION ENERGY  
MICHAEL JEWTH  
906 W GLEBE ROAD  
ALEXANDRIA, VA 22304  
(703) 408-0037  
michael.jewth@dominionenergy.com

### NATURAL GAS:

WASHINGTON GAS  
ROGER GOULT  
6801 INDUSTRIAL ROAD  
SPRINGFIELD, VA 22151  
(703) 750-4285  
rgault@washgas.com

### TELECOM:

VERIZON VIRGINIA LLC  
GARY KING  
(703) 396-9586  
gary.m.king@verizon.com  
  
AT&T CORP. (ATT)  
GARY WIGFIELD  
4800 WINCHESTER BLVD  
FREDERICK, MD  
(301) 874-1180

### WATER & SEWER:

ARLINGTON COUNTY  
DEPARTMENT OF ENVIRONMENTAL  
SERVICES  
ALLISON C. SMITH  
2100 CLARENDON BLVD, SUITE 800  
(703) 228-0648

LDA NO.: LDA #22-00073  
STORMWATER MANAGEMENT TRACKING NO.: SWM 22-0233

## ADT

19,000-VPD LEE HWY - 2016 - VDOT  
NA - VPD N. ADAMS ST

## STREET CLASSIFICATION

TYPE D ARTERIAL - LEE HWY  
NEIGHBORHOOD STREET - N. ADAMS ST

## POSTED/ DESIGN SPEED

35 MPH / 40 MPH - LEE HWY  
25 MPH / 30 MPH - N. ADAMS ST

## DESIGN VEHICLE

2011 AASHTO COMMERCIAL TRUCK - SU30

PROJECT NAME AND LOCATION

LEE HIGHWAY &  
NORTH ADAMS STREET

COVER SHEET

INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW B WU  
DRAWN: BW B WU  
CHECKED: JM D NABORS  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS COVERSHEET.DWG  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N. ADAMS ST\DRAWING\DESIGN\ADT\TR07 SHEETS  
PLOTTED: JULY 5 2023  
PLOTTED BY: JMCARTHAY

SCALE AS NOTED

SHEET C1 OF C23

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING	---	---
CENTERLINE / BASELINE	---	---
COMMUNICATIONS CABLE	--- COM --- COM ---	--- COM --- COM ---
CONTOURS MAJOR;MINOR?	--- 250 --- 250 ---	--- 250 --- 250 ---
CRITICAL ROOT ZONE	--- CRZ --- CRZ ---	--- CRZ --- CRZ ---
EASEMENT	---	---
ELECTRIC (UNDERGROUND)	--- UGE --- UGE ---	--- UGE --- UGE ---
FENCE (MATERIAL NOTED)	-X-X-X-X-X-X-	-X-X-X-X-X-X-
FIBER OPTIC	--- FO --- FO ---	--- FO --- FO ---
GAS LINE	--- GAS --- GAS ---	--- GAS --- GAS ---
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)	--- X" G --- X" G ---	--- X" G --- X" G ---
GUARDRAIL	o-o-o-o-o-o-o-o	o-o-o-o-o-o-o-o
HARDSCAPE FEATURE (MATERIAL NOTED)	---	---
LIMITS OF DISTURBANCE	--- LOD --- LOD ---	--- LOD --- LOD ---
LIMITS OF WORK	--- LOW --- LOW ---	---
OVERHEAD WIRES		
PAVEMENT MINI SKIP LINE	---	---
PAVEMENT SKIP LINE	---	---
PROPERTY LINE	---	---
RIGHT-OF-WAY LINE	---	---
SANITARY SEWER	--- SAN --- SAN ---	--- SAN --- SAN ---
X" SANITARY SEWER (SIZE INCLUDED IF AVAILABLE)	--- X" S --- X" S ---	--- X" S --- X" S ---
STORM (SIZE NOTED)	--- STM --- STM ---	---
STREAM	---	---
STREET LIGHT CONDUIT	--- SL --- SL ---	--- SL --- SL ---
TELEPHONE (UNDERGROUND)	--- UGT --- UGT ---	--- UGT --- UGT ---
TREE LINE	~ ~ ~ ~ ~	~ ~ ~ ~ ~
WALL	---	---
WATER	--- W --- W ---	--- W --- W ---
X" WATER (SIZE INCLUDED IF AVAILABLE)	--- X" W --- X" W ---	--- X" W --- X" W ---
X" WATER TO BE ABANDONED	--- X" W --- X" W ---	---

SYMBOL LEGEND

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

LABEL LEGEND

EXISTING	PROPOSED
EX SAN STRUC NO. EXISTING SANITARY STRUCTURE NUMBER	PROP SAN SEW STRUC NO. PROPOSED SANITARY SEWER STRUCTURE NUMBER
EX STRM SEW STRUC NO. EXISTING STORM SEWER STRUCTURE NUMBER	PROP STRM SEW STRUC NO. PROPOSED STORM SEWER STRUCTURE NUMBER

HATCH LEGEND

PROP MILL & OVERLAY SEE TYPICAL SECTION FOR DETAILS	
PROP FULL DEPTH ASPHALT ARLINGTON COUNTY STANDARD (R-1.1) SEE TYPICAL SECTION FOR DETAILS	
PROP CONCRETE	
PROP BRICK PAVER	
REPLACE & MATCH EXISTING DRIVEWAY OR LEADWALK. SEE CONSTRUCTION NOTES	
DEMOLITION AREA	
TEMPORARY CONSTRUCTION EASEMENT	



DEPARTMENT OF ENVIRONMENTAL SERVICES  
 TRANSPORTATION DIVISION  
 TRANSPORTATION ENGINEERING & OPERATION BUREAU  
 2100 CLARENDON BOULEVARD, SUITE 900  
 ARLINGTON, VA 22201  
 PHONE: 703.228.3344  
 FAX: 703.228.3719

COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED



APPROVALS	DATE
<i>John Watson</i>	1/31/2022
<i>John Watson</i>	03/18/2022
<i>John Watson</i>	02.18.2022
<i>John Watson</i>	03/18/2022
<i>Dennis M. Leach</i>	03/21/22

REVISIONS	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
 LEGEND  
 INTERSECTION SIGNAL IMPROVEMENT  
 TR07

DESIGNED: BW  
 DRAWN: BW  
 CHECKED: JM  
 MISS UTILITY TRANSMITTAL #: N/A  
 FILENAME: TR07 - N ADAMS LEGEND & DETAILS.DWG  
 PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\RAW\DWG\SHEETS  
 PLOTTED: OCTOBER 7 2021  
 PLOTTED BY: BWU

SCALE  
 NOT APPLICABLE  
 SHEET  
**C2 OF C23**

SEAL



APPROVALS DATE

John Yastrom	1/31/2022
Traffic Signal Engineer	
03/18/2022	
02.18.2022	
03/18/2022	
03/18/2022	
03/21/22	

REVISIONS DATE


PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**

DETAILS  
INTERSECTION SIGNAL IMPROVEMENT TR07

DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

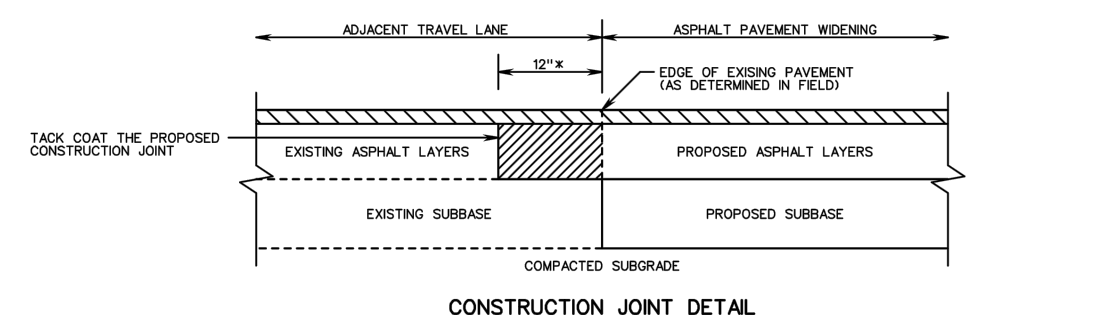
FILENAME: TR07 - N ADAMS LEGEND & DETAILS.DWG  
PATH: Q:\DATA\PROJECTS\LEE HIGHWAY ADAMS ST\DRAWINGS\SHETS  
PLOTTED: DECEMBER 13 2021  
PLOTTED BY: BWU

SCALE

NOT APPLICABLE

SHEET  
**C3 OF C23**

**TYPICAL SECTION  
LEE HIGHWAY  
(N.T.S.)**



**CONSTRUCTION JOINT DETAIL**

- NOTES:
- ASPHALT PAVEMENT WIDENING SHALL HAVE A PAVEMENT DESIGN IN ACCORDANCE WITH CURRENT VDOT PROCEDURES AND BE APPROVED BY THE ENGINEER.
  - THE PAVEMENT DESIGN FOR ASPHALT PAVEMENT WIDENING SHALL MEET OR EXCEED THE DEPTH AND TYPES OF THE LAYERS OF EXISTING PAVEMENT.
  - SUBSURFACE DRAINAGE OF THE EXISTING AND PROPOSED PAVEMENT SHALL BE ADDRESSED IN THE PAVEMENT DESIGN.
  - A MINIMUM OF THREE CORES SHALL BE TAKEN ALONG THE CENTER OF THE ADJACENT TRAVEL LANE TO DETERMINE THE TYPE AND THICKNESS OF EXISTING PAVEMENT LAYERS. THESE CORES SHALL BE SPACED NO MORE THAN 200 FEET APART.
  - THE ADJACENT TRAVEL LANE SHALL BE MILLED A MINIMUM DEPTH OF 1/2" AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH THE PROPOSED PAVEMENT WIDENING SURFACE COURSE, UNLESS WAIVED BY THE ENGINEER.
  - THE ENGINEER MAY INCREASE THE MILLING DEPTH OF THE EXISTING PAVEMENT TO BE ADJUSTED TO ACHIEVE AN ACCEPTABLE PAVEMENT CROSS-SLOPE AND EFFECTIVE SURFACE DRAINAGE.
  - EXISTING PAVEMENT MARKINGS AND MARKERS WITHIN THE PROJECT LIMITS SHALL BE RESTORED SUBJECT TO THE APPROVAL OF THE ENGINEER.
  - FINAL TRANSDVERSE PAVEMENT TIE-IN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 315.05(B) OF THE SPECIFICATIONS EXCEPT THAT ALL JOINTS SET-UP LOCATIONS SHALL BE TESTED USING A 10' FOOT STRAIGHTEDGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 315.07(D) OF THE SPECIFICATIONS.

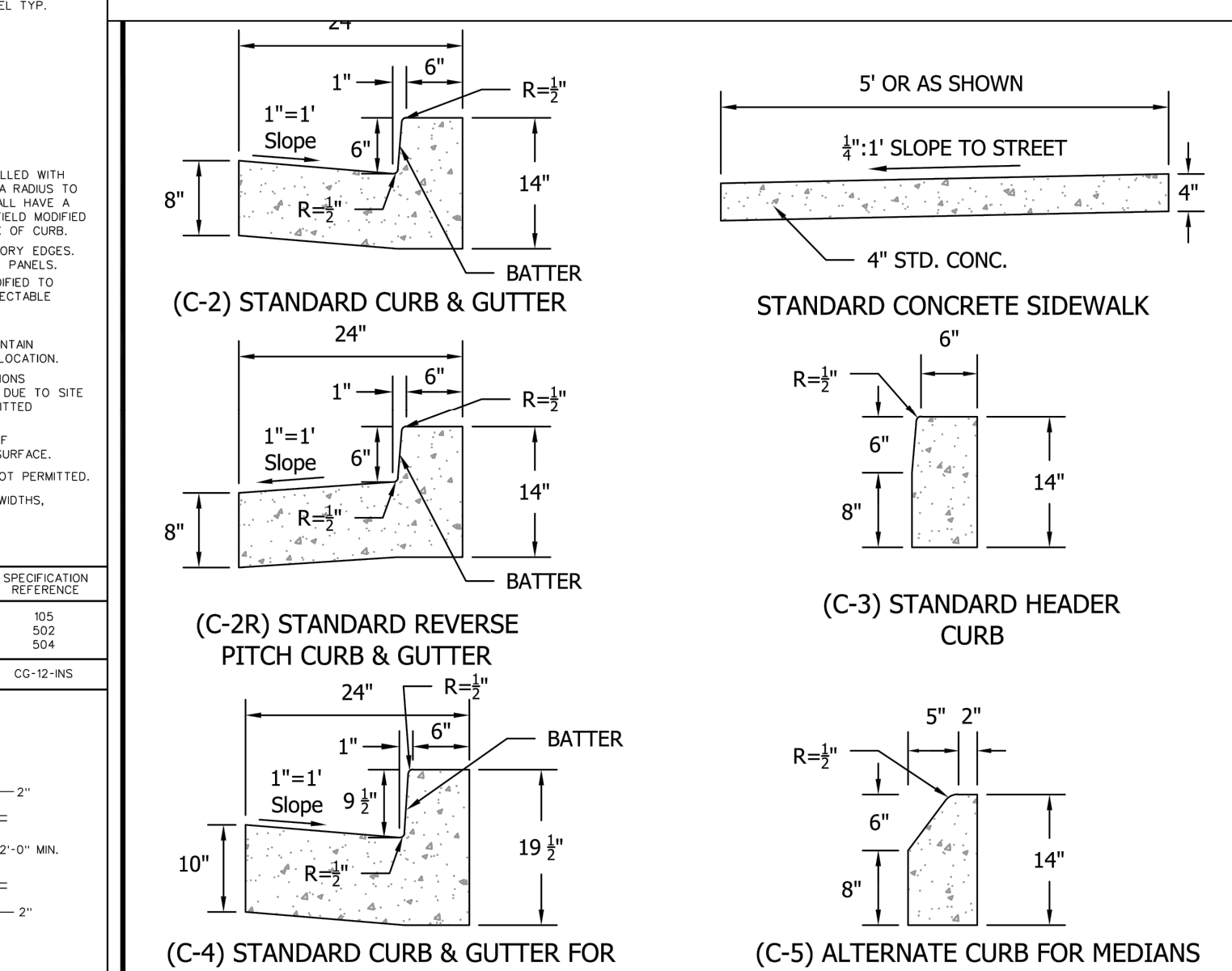
VDOT ROAD AND BRIDGE STANDARDS	ASPHALT PAVEMENT WIDENING FOR WIDENING SUBJECT TO TRAFFIC VIRGINIA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE
SHEET 1 OF 1	REVISION DATE	315
303.02		

- NOTES:
- ALL PAVEMENTS SHALL BE WIDENED IN ACCORDANCE WITH VDOT STANDARD WP-2. PROPOSED FULL DEPTH PAVEMENT REPLACEMENT SHALL MATCH EXISTING PAVEMENT IN ACCORDANCE WITH VDOT STANDARD WP-2.
  - AGGREGATE SUBBASE THICKNESS BENEATH THE WIDENED PAVEMENT SHALL BE AS INDICATED (8 INCHES) ON THIS SHEET OR MATCH THE EXISTING AGGREGATE BASE MATERIAL, WHICHEVER IS GREATER.
  - PROVIDE 1' WIDE GRADING BENCH BEHIND PROPOSED SIDEWALKS WHEN SPACE ALLOWS.
  - AS INDICATED IN TYPICAL SECTIONS, THE SUBBASE 21-B SHALL BE CONNECTED TO A VDOT STANDARDS UD-4 EDGE DRAIN LOCATED BENEATH THE PROPOSED CURB AND GUTTER, TO BE SECURELY CONNECTED TO OUTFALL AT AN ADJACENT DRAINAGE STRUCTURE.
  - THE ADJACENT TRAVEL LANE SHALL BE MILLED TO A DEPTH OF 2" AND REPLACED WITH 2" ASPHALT CONCRETE TYPE SM-9.5D, ESTIMATED AT 238 LBS/SY.
  - PROVIDED ATTAINING MINIMUM 4" OF AGGREGATE ON TOP OF THE EDGEDRAIN.

**UTILITIES**

- THE UTILITY INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM INFORMATION RECEIVED FROM DEPARTMENT OF ENVIRONMENTAL SERVICES DOES NOT GUARANTEE THAT THE UTILITY INFORMATION SHOWN ON THE PLANS IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- ALL EXISTING UNDERGROUND UTILITIES SHALL BE MARKED IN THE FIELD BY MISS UTILITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE FIELD MARKING OF UTILITIES WITH MISS UTILITY.
- ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF THESE UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE DISCONNECTED, PRIOR TO CLEARING THE SITE OF TREES, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS INDICATED ON THE CONSTRUCTION PLANS.
- FOR MARKING LOCATIONS OF EXISTING UNDERGROUND UTILITY FACILITIES (GAS, TELEPHONE, ELECTRIC AND CABLE TV), CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 OR 1-800-257-7777 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

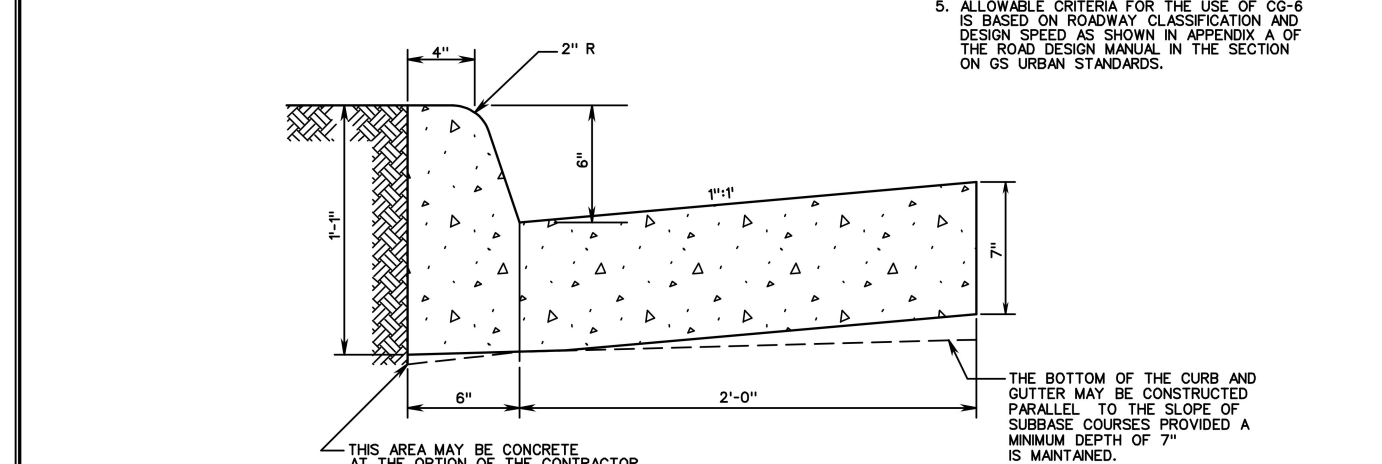
UTILITY COMPANIES	OFFICE NUMBER	EMERGENCY NUMBER
COMCAST CABLE COMMUNICATIONS	(703) 567-4191	(703) 567-4600
DOMINION VIRGINIA POWER	(703) 838-2210	(703) 934-9660
PEPCO	(202) 872-2845	(202) 833-7500



- NOTES:
- SECTION C-3 IS TO BE USED ONLY WITH RIGID TYPE PAVEMENT UNLESS OTHERWISE DIRECTED IN WRITING OR WHEN SHOWN ON APPROVED PLANS.
  - EXPANSION JOINTS IN HEADER CURB AND STANDARD CURB AND GUTTER SHALL BE 40' APART OR AT EXPANSION JOINTS IN CONCRETE PAVEMENT.
  - EXPANSION JOINTS IN THE SIDEWALK SHALL BE 40' APART. IF ADJACENT TO CONCRETE CURB, EXPANSION JOINTS SHALL MATCH JOINT OF CURB. AN EXPANSION JOINT SHALL BE PLACED BETWEEN CURB AND SIDEWALK.
  - SEE DRAWING R-2.2 FOR DETAIL OF SIDEWALK STRESS COLUMN TO BE PLACED UNDER SIDEWALK WHEN PLACED ADJACENT TO BACK OF CURB.
  - SEE ARLINGTON COUNTY SPECIFICATION SECTIONS 02611 AND 03100 FOR MATERIAL SPECS.
  - PROVIDE 6" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER CURB AND GUTTER.
  - PROVIDE 3" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER SIDEWALK.
  - WHENEVER CURB ABUTS RIGID PAVEMENT, PROVIDE LONGITUDINAL JOINT PER VDOT PR-2.
  - SECTION C-5 TO BE USED WHEN BICYCLE LANE RUNS ALONG A MEDIAN.

VDOT ROAD AND BRIDGE STANDARDS	CONCRETE CURB & GUTTER AND SIDEWALK	ISSUED
SHEET 1 OF 2	REVISION DATE	9/14/2020
204.06		

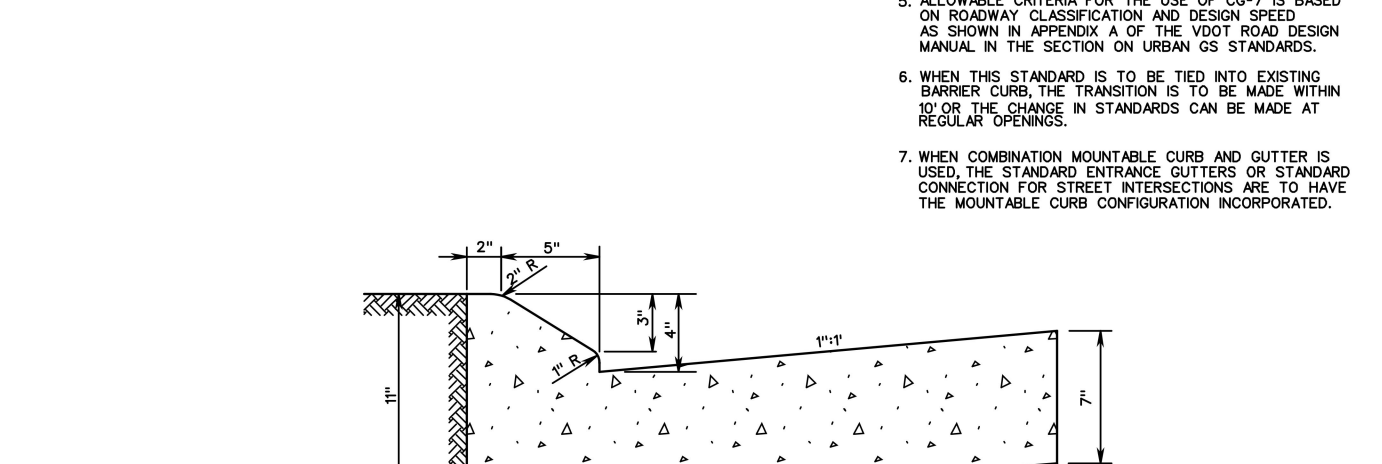
- NOTES:
- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
  - CONCRETE TO BE CLASS AS IF CAST IN PLACE, 4000 PSI # PRECAST.
  - COMBINATION CURB & GUTTER HAVING A RADIUS OF 200 FEET OR LESS (ALONG FACE OF CURB) SHALL BE USED FOR ALL RADIAL COMBINATION CURB & GUTTER.
  - FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYERS, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSE AND TO THE CENTER OF THE PAVEMENT.
  - ALLOWABLE CRITERIA FOR THE USE OF CURB & GUTTER BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON URBAN STANDARDS.



**COMBINATION 6" CURB AND GUTTER**

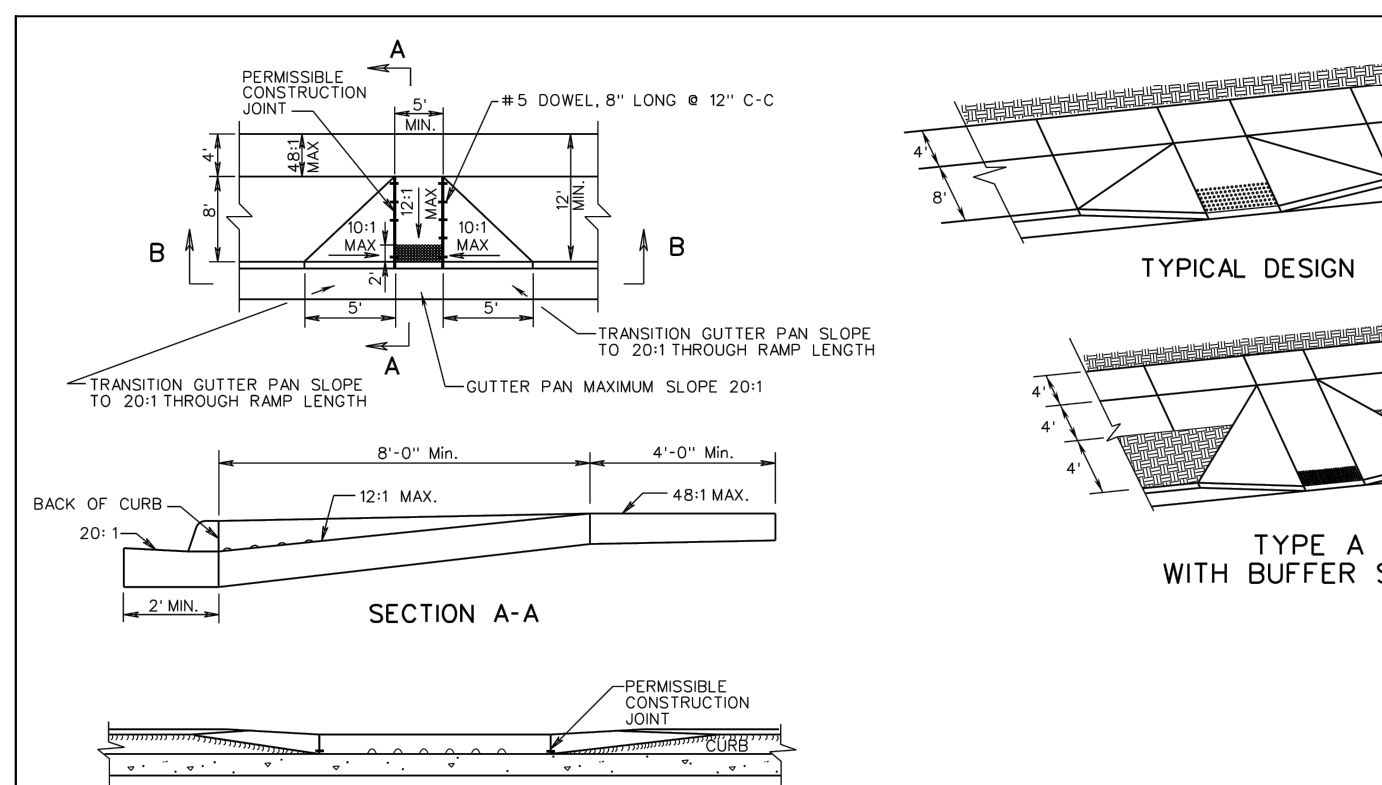
VDOT ROAD AND BRIDGE STANDARDS	COMBINATION 6" CURB AND GUTTER	SPECIFICATION REFERENCE
SHEET 1 OF 1	REVISION DATE	305
201.03		502

- NOTES:
- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
  - CONCRETE TO BE CLASS AS IF CAST IN PLACE, 4000 PSI # PRECAST.
  - COMBINATION CURB & GUTTER HAVING A RADIUS OF 200 FEET OR LESS (ALONG FACE OF CURB) SHALL BE USED FOR ALL RADIAL COMBINATION CURB & GUTTER.
  - FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYERS, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSE AND TO THE CENTER OF THE PAVEMENT.
  - ALLOWABLE CRITERIA FOR THE USE OF CURB & GUTTER BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON URBAN STANDARDS.
  - WHEN THE STANDARD IS TO BE USED WITH EXISTING WIDENING CURB, THE TRANSITION IS TO BE MADE WITHIN THE STANDARD. TRANSITIONS CAN BE MADE AT 10' INTERVALS.
  - WHEN COMBINATION CURB AND GUTTER IS USED, THE STANDARD DIRECTIONAL CURB RAMP OR STANDARD CONNECTION FOR STREET INTERSECTIONS ARE TO HAVE THE MOUNTABLE CURB CONFIGURATION INCORPORATED.



**COMBINATION 4" CURB AND GUTTER**

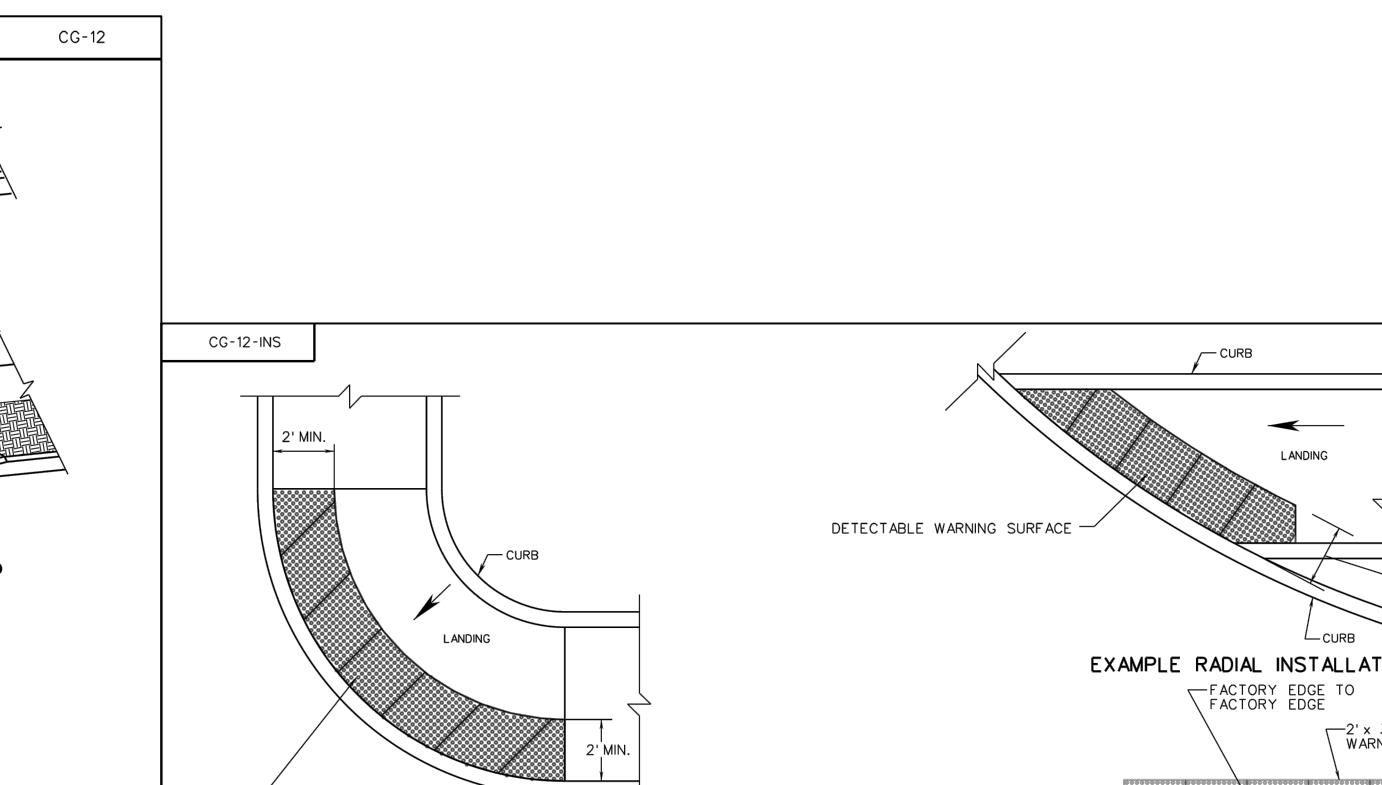
VDOT ROAD AND BRIDGE STANDARDS	COMBINATION 4" CURB AND GUTTER	SPECIFICATION REFERENCE
SHEET 1 OF 1	REVISION DATE	305
201.04		502



**CG-12 DETECTABLE WARNING SURFACE**

- NOTES:
- FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
  - THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WEIR SIDEWALK LANDING (AS REQUIRED AT TOP OF CURB RAMP) MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION.
  - GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
  - DIAGONAL PLACEMENT IS NOT PERMITTED.

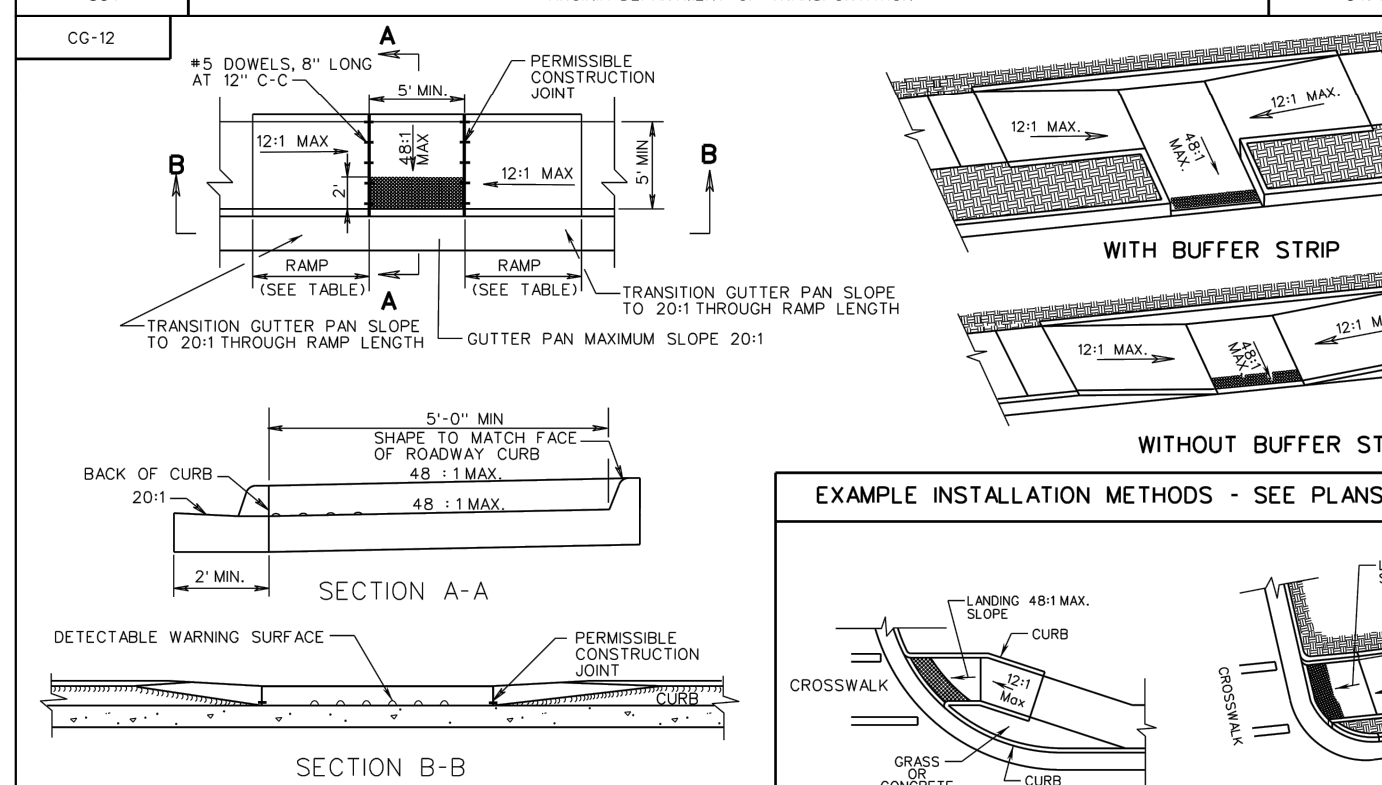
VDOT ROAD AND BRIDGE STANDARDS	CG-12 DETECTABLE WARNING SURFACE TYPE A (PERPENDICULAR) APPLICATION	SPECIFICATION REFERENCE
SHEET 2 OF 5	REVISION DATE	305
04/19		502
204.02		504



**CG-12 DETECTABLE WARNING SURFACE**

- NOTES:
- LOCATIONS WHERE THE DETECTABLE WARNING PANELS SHALL BE INSTALLED WITH A MAXIMUM 2" OFFSET FROM THE BACK OF CURB SHALL HAVE A RADIUS TO MATCH RADIUS OF THE CURB DETECTABLE WARNING PANELS SHALL HAVE TO MATCH RADIUS OF THE CURB DETECTABLE WARNING PANELS.
  - JOINTS BETWEEN DETECTABLE WARNING PANELS SHALL BE FACTORY EDGES. CUT EDGES OF PANELS ARE NOT PERMITTED TO ADJACENT PANELS.
  - ALIGNMENT OF Joints ON ADJACENT PANELS THAT WILL BE MODIFIED TO FIT A RADIUS SHALL BE MAINTAINED WHEN FIELD MODIFYING DETECTABLE WARNING PANELS.
  - DETECTABLE WARNING PANEL SIZES SHOWN ARE FOR EXAMPLE PURPOSES. OTHER PANEL SIZES MAY BE USED IN ORDER TO MAINTAIN CONSISTENT ALIGNMENT OF THE Joints FOR EACH CURB RAMP LOCATION.
  - BLENDED TRANSITION CURB RAMP ARE FOR ALTERATION SITUATIONS WHERE STANDARD DIRECTIONAL CURB RAMP ARE NOT FEASIBLE DUE TO SITE CONSTRAINTS, BLENDED TRANSITION CURB RAMP ARE NOT PERMITTED.
  - SEE PLANS FOR CROSSWALK MARKINGS, TURNING AREAS, ROUTE WIDTHS, GRADE CHANGES, AND RAMP CONFIGURATIONS.

VDOT ROAD AND BRIDGE STANDARDS	CG-12 DETECTABLE WARNING SURFACE METHOD OF INSTALLING DETECTABLE WARNINGS ON A RADIUS	SPECIFICATION REFERENCE
SHEET 2 OF 2	REVISION DATE	305
NEW 04/19		502
204.07		504

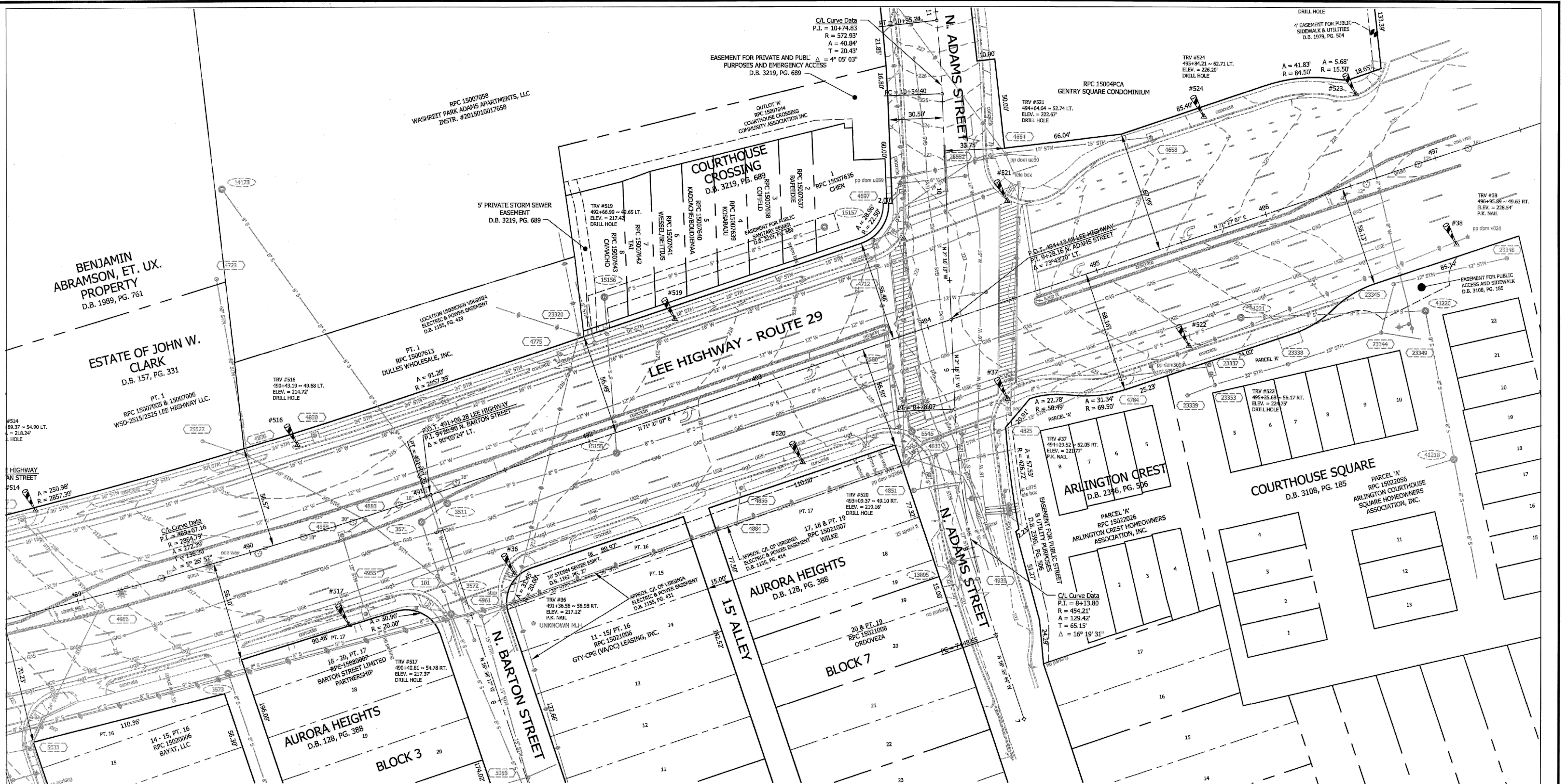


**CG-12 DETECTABLE WARNING SURFACE**

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

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET
0	4
1	5
2	6
3	7
4	8
5	9
6	10
7	11
8	12
9	13
10	14
11	15

VDOT ROAD AND BRIDGE STANDARDS	CG-12 DETECTABLE WARNING SURFACE TYPE B (PARALLEL) APPLICATION	SPECIFICATION REFERENCE
SHEET 3 OF 5	REVISION DATE	305
204.03		502
		504



**STORM DRAIN INVERTS**

#EX.101  
TOP = 216.83  
36" RCP INV. IN = 203.75 (4961)  
36" RCP INV. OUT = 203.33 (4883)

#4658  
TOP = 225.15  
15" RCP INV. OUT = 220.65 (4664)

#4664  
TOP = 222.61  
15" RCP INV. IN = 217.51 (4658)  
15" RCP INV. OUT = 217.45 (25552)

#4697  
TOP = 221.64  
18" RCP INV. IN = 216.83 (4664) #25552  
18" RCP INV. OUT = 216.67 (4712)

#4712  
TOP = 220.60  
18" RCP INV. IN = 216.56 (4697)  
18" RCP INV. OUT = 216.41 (23320)

#4723  
TOP = 215.36  
15" RCP INV. IN = 205.86 (4656)  
48" RCP INV. IN = 190.86 (4836)  
48" RCP INV. OUT = 190.56 (4685)

#4775  
TOP = 216.50  
18" RCP INV. IN = 213.68 (23320)  
24" RCP INV. OUT = 213.60 (4830)

#4784  
TOP = 223.64  
15" RCP INV. IN = 219.24 (23337)  
15" RCP INV. OUT = 219.24 (4825)

#4830  
TOP = 214.83  
24" RCP INV. IN = 210.13 (4775)  
24" RCP INV. OUT = 210.03 (4836)

#4856  
TOP = 218.47  
15" RCP INV. OUT = 212.97 (4884)

#4825  
TOP = 221.12  
15" RCP INV. IN = 216.02 (4784)  
24" RCP INV. OUT = 216.02 (4833)

#4833  
TOP = 220.67  
18" RCP INV. IN = 216.67 (4851)  
24" RCP INV. IN = 214.67 (4825)  
27" RCP INV. IN = 211.65 (4935)  
36" RCP INV. OUT = 211.32 (4884)

#4836  
TOP = 215.06  
15" RCP INV. IN = 211.16 (25522)  
36" RCP INV. IN = 202.56 (4883)  
24" RCP INV. IN = 209.16 (4830)  
30" RCP INV. IN = 209.46 (4877)  
48" RCP INV. OUT = 195.76 (4723)

#4851  
TOP = 221.04  
18" RCP INV. OUT = 217.19 (4833)

#4865  
TOP = 225.73  
15" RCP INV. OUT = 221.89 (4945)

#4877  
TOP = 218.61  
24" RCP INV. IN = 212.11 (4956)  
24" RCP INV. IN = 212.11 (4945)  
30" RCP INV. OUT = 211.81 (25522)

#4883  
TOP = 216.10  
15" RCP INV. IN = 211.60 (4888)  
36" RCP INV. IN = 202.40 (101)  
36" RCP INV. OUT = 202.40 (4836)

#4884  
TOP = 218.23  
15" RCP INV. IN = 211.13 (4856)  
36" RCP INV. IN = 207.73 (4841)  
36" RCP INV. OUT = 207.63 (4961)

#4888  
TOP = 216.12  
15" RCP INV. IN = 212.02 (4955)  
15" RCP INV. OUT = 211.83 (4883)

#4935  
TOP = 221.43  
27" RCP INV. IN = 213.27 (5307)  
15" RCP INV. IN = 216.38 (4938)  
27" RCP INV. OUT = 213.21 (4833)

#4945  
TOP = 228.33  
24" RCP INV. IN = 221.03 (25452)  
18" RCP INV. IN = 221.13 (4865)  
24" RCP INV. OUT = 221.03 (4877)

#4948  
TOP = 203.12  
18" RCP INV. IN = 198.62 (23307)  
15" RCP INV. IN = 198.62 (23309)  
15" RCP INV. OUT = 198.52 (5003)

#4955  
TOP = 217.06  
15" RCP INV. OUT = 212.36 (4888)

#4956  
TOP = 218.88  
18" RCP INV. IN = 212.78 (5033)  
24" RCP INV. OUT = 212.68 (4877)

#4960  
TOP = 222.09  
15" RCP INV. IN = 216.98 (4976)  
15" RCP INV. IN = 217.36 (23318)  
15" RCP INV. OUT = 216.37 (5008)

#4961  
TOP = 216.22  
15" RCP INV. IN = 203.92 (5056)  
36" RCP INV. IN = 203.92 (4884)  
36" RCP INV. OUT = 203.92 (101)

#5003  
TOP = 204.52  
18" RCP INV. IN = 196.12 (5068)  
24" RCP INV. IN = 196.72 (23311)  
15" RCP INV. IN = 197.02 (4948)  
30" RCP INV. OUT = 195.92 (4838)

#5008  
TOP = 219.56  
15" RCP INV. IN = 214.59 (4960)  
15" RCP INV. IN = 214.69 (5016)  
18" RCP INV. OUT = 214.29 (5075)

#5016  
TOP = 223.52  
15" RCP INV. IN = 219.92 (5076)  
15" RCP INV. OUT = 219.92 (5008)

#5033  
TOP = 223.17  
18" RCP INV. IN = 213.67 (5036)  
18" RCP INV. OUT = 213.67 (4956)

#5036  
TOP = 223.44  
18" RCP INV. OUT = 216.44 (5033)

#5043  
TOP = 230.17  
24" RCP INV. IN = 223.77 (5074)  
24" RCP INV. OUT = 223.77 (25452)

#5056  
TOP = 212.39  
15" RCP INV. IN = 208.24 (5066)  
15" RCP INV. IN = 206.51 (5040)  
15" RCP INV. OUT = 206.19 (4961)

#5068  
TOP = 205.70  
15" RCP INV. IN = 199.90 (23371)  
18" RCP INV. IN = 200.10 (23372)  
18" RCP INV. OUT = 199.80 (5003)

#5072  
TOP = 229.06  
15" RCP INV. OUT = 224.51 (5074)

#5074  
TOP = 230.29  
15" RCP INV. IN = 225.29 (5097)  
15" RCP INV. IN = 223.89 (5072)  
24" RCP INV. OUT = 223.89 (5043)

#5075  
TOP = 216.58  
15" RCP INV. IN = NO ACCESS (5008)  
24" RCP INV. IN = 211.33 (5110)  
24" RCP INV. OUT = 211.28 (23311)

#5076  
TOP = 226.03  
15" RCP INV. OUT = 221.83 (5016)

#5097  
TOP = 230.21  
15" RCP INV. OUT = 226.01 (5074)

#5110  
TOP = 220.12  
18" RCP INV. IN = UNKNOWN (SD-788)  
24" RCP INV. IN = 214.68 (23376)  
24" RCP INV. OUT = 214.68 (5075)

#5127  
TOP = 207.69  
24" RCP INV. IN = 199.99 (5075)  
24" RCP INV. IN = 199.89 (5003)

#5136  
TOP = 228.77  
15" RCP INV. OUT = 223.67 (5184)

#5184  
TOP = 225.75  
15" RCP INV. IN = 221.55 (5136)  
15" RCP INV. OUT = 221.45 (25518)

#5191  
TOP = 225.28  
15" RCP INV. IN = 219.48 (25518)  
24" RCP INV. IN = 218.38 (5242)  
24" RCP INV. OUT = 218.28 (23376)

#23307  
TOP = 205.52  
18" RCP INV. OUT = 199.62 (4948)

#23309  
TOP = 205.34  
C/L INV. = 197.79 (4948)  
\*FULL OF WATER

#23318  
TOP = 228.27  
15" RCP INV. IN = 219.42  
(UNKNOWN)  
15" RCP INV. OUT = 219.24 (4960)

#23320  
TOP = 216.79  
18" RCP INV. IN = 213.96 (4712)  
8" PVC INV. IN = 214.12 (23321)  
18" RCP INV. OUT = 213.89 (4775)

#23337  
TOP = 225.37  
C/L INV. = 219.77

#23338  
TOP = 227.51  
C/L INV. = 220.44  
PIPE SIZES PER GIS

#23339  
TOP = 226.39  
C/L INV. = 220.35  
PIPE SIZE PER GIS

#23344  
COULD NOT FIND APPROX. LOCATION  
PIPE SIZES PER GIS

#23345  
TOP = 227.82  
12" CMP INV. IN = 223.72 (23348)  
12" CMP INV. OUT = 223.72 (23344)

#23348  
TOP = 228.67  
12" CMP INV. OUT = 226.10 (23345)

#23349  
TOP = 228.37  
12" CMP INV. OUT = 224.38 (23344)

#23353  
COULD NOT FIND APPROX. LOCATION  
PIPE SIZES PER GIS

#23371  
TOP = 206.60  
15" RCP INV. OUT = 200.50 (5068)

#23372  
TOP = 206.68  
18" RCP INV. IN = 201.18 (5122)  
18" RCP INV. OUT = 201.08 (5068)

#23376  
TOP = 222.17  
12" RCP INV. IN = 218.00 (23377)  
24" RCP INV. IN = 216.02 (5191)  
24" RCP INV. OUT = 215.88 (5110)

#23377  
TOP = 224.08  
12" RCP INV. OUT = 219.06 (23376)

#25452  
TOP = 229.30  
24" RCP INV. IN = 223.10 (5043)  
24" RCP INV. OUT = 223.10 (4945)

#25518  
TOP = 225.51  
15" RCP INV. IN = 221.21 (5184)  
15" RCP INV. = 221.21 (5191)

#25522  
TOP = 214.95  
15" RCP INV. IN = 212.10 (4836)

#SD-788  
TOP = 220.66  
18" RCP INV. OUT = 218.56 (5110)

#49676  
TOP = 222.91  
15" RCP INV. OUT = 218.06 (4960)

#3501  
TOP = 230.65  
C/L INV. = 221.13

#3502  
TOP = 234.39  
C/L INV. = 227.16

#3504  
TOP = 220.39  
C/L INV. = 213.86

#3505  
TOP = 225.47  
C/L INV. = 218.12

#3511  
TOP = 216.07  
C/L INV. = 202.02

#3571  
TOP = 216.14  
C/L INV. = 205.22

#3572  
TOP = 217.83  
C/L INV. = 208.23  
DROP PIPE INV. = 210.03 (3574)

#3574  
TOP = 234.36  
C/L INV. = 224.51

#3576  
TOP = 223.09  
C/L INV. = 213.09

#3577  
TOP = 230.18  
C/L INV. = 224.59

#3580  
TOP = 220.58  
C/L INV. = INACCESSIBLE

#3660  
TOP = 228.90  
C/L INV. = 221.60

#6545  
TOP = 220.32  
C/L INV. = 214.62

#8477  
TOP = 213.25  
C/L INV. = 208.33

#11502  
TOP = 223.36  
C/L INV. = 213.46

**SANITARY SEWER INVERTS**

#11503  
TOP = 228.60  
C/L INV. = 218.30

#12829  
TOP = 206.29  
C/L INV. = 196.74

#13895  
TOP = 220.94  
C/L INV. = 215.41

#14173  
TOP = 212.01  
C/L INV. = 187.97

#14311  
TOP = 224.45  
C/L INV. = 210.96

#14312  
TOP = 229.35  
C/L INV. = 216.97

#14667  
TOP = 218.74  
C/L INV. = 206.50

#14668  
TOP = 216.99  
C/L INV. = 209.80

#14669  
TOP = 220.37  
C/L INV. = 207.57  
DROP PIPE INV. = 215.37 (3660)

#15155  
TOP = 217.16  
C/L INV. = INACCESSIBLE

#15156  
TOP = 218.56  
C/L INV. = 209.27

#15157  
TOP = 221.65  
C/L INV. = 216.37

#41218  
TOP = 231.30  
C/L INV. = 221.50

#41220  
TOP = 228.85  
C/L INV. = 220.90

#41221  
TOP = 225.73  
C/L INV. = INACCESSIBLE

#41333  
TOP = 210.84  
C/L INV. = 204.98

#41334  
TOP = 203.95  
C/L INV. = 197.14

**CONTROL DATA:**

TRAVERSE 30, 32, 34 - 38 WERE TAKEN FROM DEWBERRY CONTROL FILE:  
Q:\Data\Contractor Files\Dewberry-Kirkwood&LeeHyw Dominion  
Undergrounding\overall-topo.dwg  
ALL COORDINATES ARE ON DEWBERRY PROJECT COORDINATES.

Project Coordinates				
POINT #	NORTHING	EASTING	ELEVATION	DESC.
30	7012453.7365	11882459.6539	178.67	P.K. NAIL
32	7011925.5091	11882995.6622	207.06	P.K. NAIL
34	7011916.5203	11883604.1854	235.27	P.K. NAIL
35	7011951.2877	11883828.2334	230.33	P.K. NAIL
36	7012065.6995	11884278.1177	217.12	P.K. NAIL
37	7012163.5602	11884554.2939	221.77	P.K. NAIL
38	7012250.5913	11884806.0507	228.54	P.K. NAIL
333	7012007.9935	11883267.7043	221.52	P.K. NAIL
501	7011664.6035	11882955.9583	214.17	DRILL HOLE
502	7011784.5501	11883358.3698	227.13	DRILL HOLE
503	7011940.7582	11884006.2837	223.57	DRILL HOLE
504	7011671.5889	11883897.5558	240.45	DRILL HOLE
505	7011839.7381	11884315.1901	217.75	DRILL HOLE
506	7012548.7578	11884756.5870	239.63	DRILL HOLE
507	7011927.8584	11883077.5947	211.90	DRILL HOLE
508	7011997.5565	11883211.0004	215.74	DRILL HOLE
509	7011992.9169	11883412.1465	227.55	DRILL HOLE
510	7011902.5066	11883505.0538	233.61	DRILL HOLE
511	7011962.5329	11883559.7970	233.52	DRILL HOLE
512	7011979.1806	11883965.5939	223.45	DRILL HOLE
513	7012040.7270	11884012.1776	220.22	DRILL HOLE
514	7012101.9193	11884009.7604	218.24	DRILL HOLE
515	7012054.4501	11883793.9626	228.72	DRILL HOLE
516	7012138.0318	11884156.4637	214.72	DRILL HOLE
517	7012037.6038	11884185.2914	217.37	DRILL HOLE
518	7012129.2600	11884273.5300	216.67	DRILL HOLE
519	7012208.2825	11884367.8519	217.42	DRILL HOLE
520	7012128.1398	11884439.4415	219.16	DRILL HOLE
521	7012274.0786	11884554.2501	222.67	DRILL HOLE
522	7012193.4271	11884656.2479	224.75	DRILL HOLE
523	7012334.3271	11884749.5630	228.10	DRILL HOLE
524	7012321.5681	11884664.4383	226.20	DRILL HOLE
525	7012367.1591	11884841.3821	229.12	DRILL HOLE
551	7011881.3833	11883611.4071	240.05	DRILL HOLE
610	7012038.8791	11883568.5374	232.88	DRILL HOLE

**NOTE:**

1. UNDERGROUND UTILITIES WERE DESIGNATED BY MID-ATLANTIC UTILITY LOCATING, L.L.C. ON JUNE 6, 2017 AND LOCATED BY ARLINGTON COUNTY SURVEYORS BETWEEN JUNE 12, 2017 & JUNE 14, 2017.
2. DIAMETER OF WATER LINES & SANITARY SEWER PIPES ARE SHOWN FROM ARLINGTON COUNTY RECORDS.

PROJECT NAME AND LOCATION  
**LEE HIGHWAY &  
NORTH ADAMS STREET**

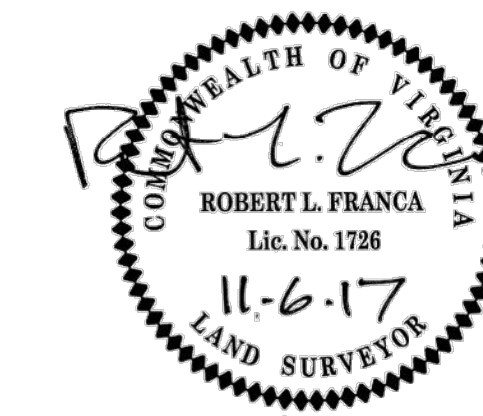
EXISTING CONDITIONS  
**LEE HIGHWAY & N ADAMS STREET  
INTERSECTION SIGNAL IMPROVEMENT  
TR07**

**SHEET C5 OF C23**



DEPARTMENT OF ENVIRONMENTAL SERVICES  
Engineering Bureau - Survey Section  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201

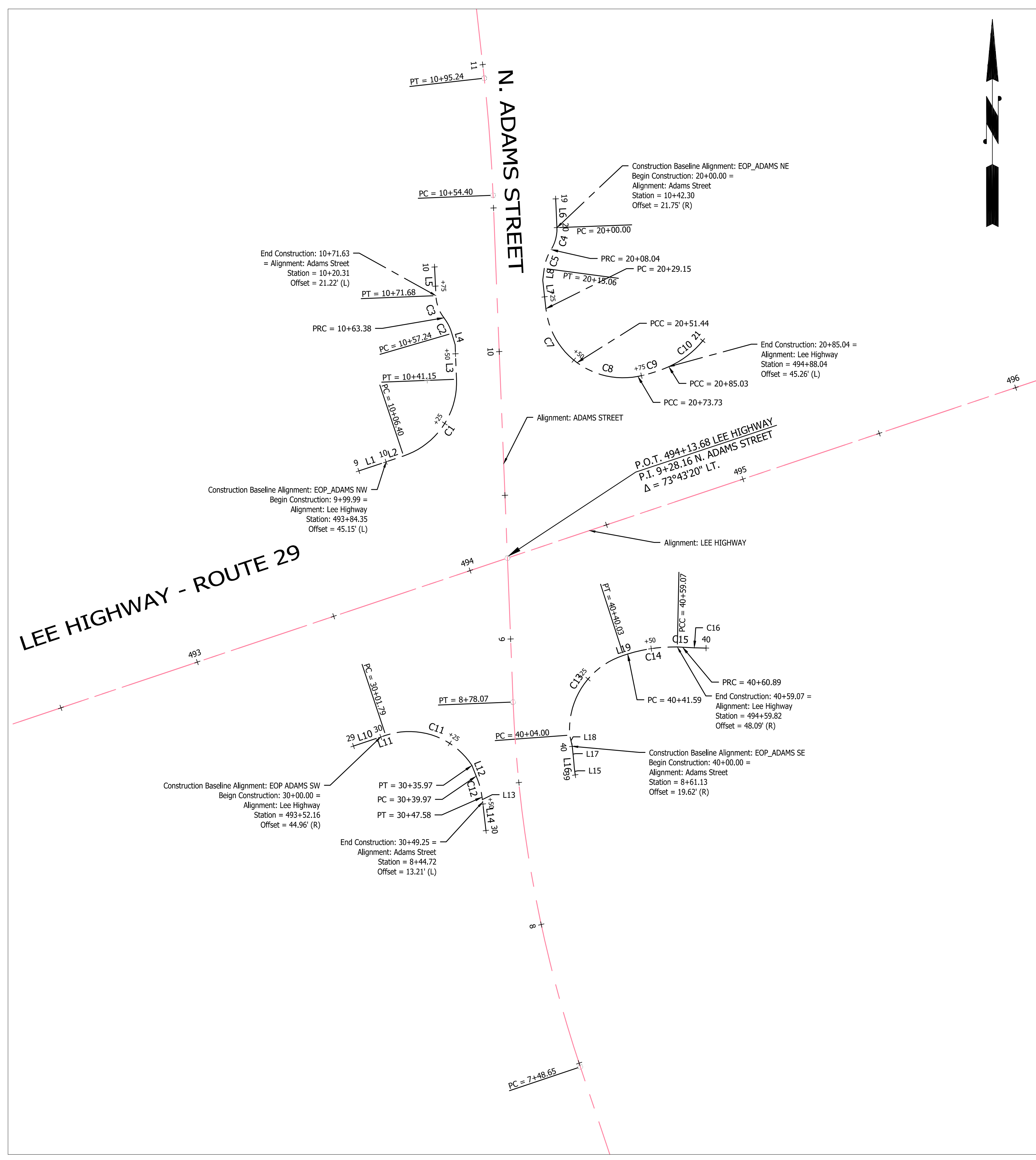
I HEREBY CERTIFY THAT:  
THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ROBERT L. FRANCA, L.S. FROM A COMBINATION OF ARLINGTON COUNTY G.I.S. INFORMATION AND AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED FROM 06/2017 TO 10/2017; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.



HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983 - NORTH ZONE.  
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988.  
BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

PARTY CHIEF: PATEL/OWENS  
SURVEY PM: GOTTSSELIG  
PROJECT:  
**6697/TR07**

TOPOGRAPHIC SURVEY  
**LEE HIGHWAY**  
FROM N. DANIEL STREET TO N. WAYNE STREET  
ARLINGTON COUNTY, VIRGINIA



Alignment Name: EOP\_ADAMS NW

Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Star)	STA (End)	Nothing, Easting (Start)	Nothing, Easting (End)
C1	34.743	27.000	N34° 35' 36.84\"E	32.40'	73° 43' 39\"	20.25	10+06.40	10+41.15	7012270.3950, 11884486.6017	7012270.0629, 11884504.9942
C2	6.139	16.500	N26° 51' 35.36\"W	6.10'	21° 19' 00\"	3.11	10+57.24	10+63.38	7012285.9836, 11884503.3770	7012291.4285, 11884500.6194
C3	8.305	13.500	N19° 53' 38.05\"W	8.17'	35° 14' 49\"	4.29	10+63.38	10+71.68	7012291.4285, 11884500.6194	7012299.1152, 11884497.8378
L1	10.000		N71° 33' 10.53\"E				9+90.00	10+00.00	7012241.3462, 11884480.5340	7012241.3462, 11884480.5340
L2	6.404		N71° 20' 32.88\"E				10+00.00	10+06.40	7012241.3462, 11884480.5340	7012243.3950, 11884486.6017
L3	12.000		N2° 16' 12.66\"W				10+41.15	10+53.15	7012270.0629, 11884504.9942	7012282.0535, 11884504.5189
L4	4.093		N16° 12' 05.58\"W				10+53.15	10+57.24	7012282.0535, 11884504.5189	7012285.9836, 11884503.3770
L5	10.000		N2° 42' 31.13\"W				10+71.68	10+81.68	7012299.1152, 11884497.8378	7012309.1040, 11884497.3652

Alignment Name: EOP\_ADAMS NE

Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Star)	STA (End)	Nothing, Easting (Start)	Nothing, Easting (End)
C4	8.035	13.500	S14° 55' 52.78\"W	7.92'	34° 06' 13\"	4.14	20+00.00	20+08.04	7012322.7875, 11884539.9042	7012315.1375, 11884537.8642
C5	7.021	16.500	S19° 47' 37.53\"W	6.97'	24° 22' 42\"	3.56	20+08.04	20+15.06	7012315.1375, 11884537.8642	7012308.5814, 11884535.5047
C7	22.292	27.000	S29° 58' 41.96\"E	21.66'	47° 18' 16\"	11.83	20+29.15	20+51.44	7012294.5857, 11884536.0650	7012275.8201, 1188456.8898
C8	22.292	27.000	S77° 16' 57.78\"E	21.66'	47° 18' 16\"	11.83	20+51.44	20+73.73	7012275.8201, 1188456.8898	7012271.0510, 11884568.0223
C9	11.301	50.000	N72° 35' 24.88\"E	11.28'	12° 56' 58\"	5.67	20+73.73	20+85.03	7012271.0510, 11884568.0223	7012274.4249, 11884578.7822
C10	15.000	32.260	N52° 38' 48.87\"E	14.87'	26° 38' 28\"	7.64	20+85.03	21+00.03	7012274.4249, 11884578.7822	7012283.4441, 11884590.5987
L6	10.000		S2° 30' 11.56\"E				19+90.00	20+00.00	7012332.7779, 11884539.4674	7012322.7875, 11884539.9042
L7	10.000		S6° 19' 33.99\"E				20+19.15	20+29.15	7012304.5247, 11884534.9631	7012294.5857, 11884536.0650
L8	4.093		S7° 36' 16.00\"W				20+15.06	20+19.15	7012308.5814, 11884535.5047	7012304.5247, 11884534.9631

Alignment Name: EOP ADAMS SW

Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Star)	STA (End)	Nothing, Easting (Start)	Nothing, Easting (End)
C11	34.175	26.011	S70° 45' 04.82\"E	31.77'	75° 16' 42\"	20.06	30+01.79	30+35.97	7012146.2447, 11884480.3737	7012135.7712, 11884510.3673
C12	7.617	25.500	S15° 41' 43.67\"E	7.59'	17° 06' 50\"	3.84	30+39.97	30+47.58	7012132.0481, 11884511.8296	7012124.7426, 11884513.8825
L10	10.000		N71° 36' 03.68\"E				29+90.00	30+00.00	7012142.5230, 11884469.1851	7012145.6793, 11884478.6739
L11	1.791		N71° 36' 03.68\"E				30+00.00	30+01.79	7012145.6793, 11884478.6739	7012146.2447, 11884480.3737
L12	4.000		S21° 26' 33.78\"E				30+35.97	30+39.97	7012135.7712, 11884510.3673	7012132.0481, 11884511.8296
L13	1.669		S7° 08' 18.49\"E				30+47.58	30+49.25	7012124.7426, 11884513.8825	7012123.0861, 11884514.0899
L14	10.000		S6° 29' 57.27\"E				30+49.25	30+59.25	7012123.0861, 11884514.0899	7012113.1504, 11884515.2218

Alignment Name: EOP\_ADAMS SE

Number	Length	Radius	Line/Chord Direction	Chord Length	Delta (Δ)	Tangent	STA (Star)	STA (End)	Nothing, Easting (Start)	Nothing, Easting (End)
C13	36.026	27.000	N33° 58' 19.80\"E	33.41'	76° 27' 01\"	21.27	40+04.00	40+40.03	7012146.3288, 11884544.3463	7012174.0383, 11884563.0170
C14	17.477	53.822	N81° 54' 31.11\"E	17.40'	18° 36' 17\"	8.82	40+41.59	40+59.07	7012174.5172, 11884564.5083	7012176.9662, 11884581.7349
C15	1.822	53.465	S87° 43' 03.43\"E	1.82'	1° 57' 08\"	0.91	40+59.07	40+60.89	7012176.9662, 11884581.7349	7012176.8937, 11884583.5551
C16	8.178	181.741	S87° 54' 29.49\"E	8.18'	2° 34' 42\"	4.09	40+60.89	40+69.07	7012176.8937, 11884583.5551	7012176.5952, 11884591.7273
L15	2.487		N7° 31' 05.08\"W				39+90.00	39+92.49	7012132.4830, 11884546.2693	7012134.9483, 11884545.9439
L16	2.096		N4° 34' 55.31\"W				39+92.49	39+94.58	7012134.9483, 11884545.9439	7012137.0372, 11884545.7765
L17	5.418		N5° 49' 21.11\"W				39+94.58	40+00.00	7012137.0372, 11884545.7765	7012142.4270, 11884545.2269
L18	4.000		N12° 43' 02.69\"W				40+00.00	40+04.00	7012142.4270, 11884545.2269	7012146.3288, 11884544.3463
L19	1.566		N72° 11' 50.39\"E				40+40.03	40+41.59	7012174.0383, 11884563.0170	7012174.5172, 11884564.5083



DEPARTMENT OF ENVIRONMENTAL SERVICES  
 TRANSPORTATION DIVISION  
 TRANSPORTATION ENGINEERING & OPERATION BUREAU  
 2100 CLARENDON BOULEVARD, SUITE 900  
 ARLINGTON, VA 22201  
 PHONE: 703.228.3344  
 FAX: 703.228.3719  
 COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

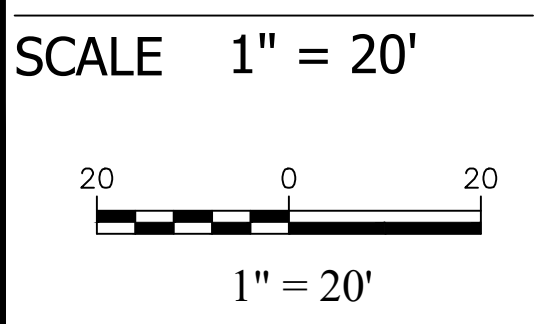


APPROVALS	DATE
<i>John Yastrow</i> TRAFFIC SIGNAL ENGINEER	1/31/2022
<i>Bi Feng Wu</i> TRAFFIC ENGINEERING MANAGER	03/18/2022
<i>John Yastrow</i> WATER, SEWER, STREETS BUREAU CHIEF	02.18.2022
<i>John Yastrow</i> TE&O BUREAU CHIEF	03/18/2022
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	03/21/22

REVISIONS	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
 GEOMETRIC CONTROL PLAN  
 INTERSECTION SIGNAL IMPROVEMENT  
 TR07

DESIGNED: BW  
 DRAWN: BW  
 CHECKED: JM  
 MISS UTILITY TRANSMITTAL #: N/A  
 FILENAME: TR07 - N ADAMS GEOMETRIC AND CURB E  
 PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\DRAWING\DRSHEETS  
 PLOTTED: OCTOBER 7 2021  
 PLOTTED BY: BWU



SHEET  
**C6 OF C23**

**PROJECT DESCRIPTION:**

LEE HIGHWAY AND N ADAMS STREET INTERSECTION IMPROVEMENT PROJECT CONSISTS OF UPGRADING EXISTING SIGNAL SYSTEM, INSTALLING CURB RAMPS & SIDEWALK TO COMPLY WITH CURRENT ADA STANDARDS' REQUIREMENTS, RELOCATING OR CONVERTING STORM STRUCTURES AND RELATED PAVEMENT MARKING WORK. THE TOTAL DISTURBED AREA IS 3,284.49 SF (0.07 acre).

**EXISTING SITE CONDITIONS:**

THE TOPOGRAPHY OF THE PROJECT IS SOMEWHAT MODERATE SLOPES AND DRAINS TOWARDS THE SOUTH FROM N ADAMS STREET AND THEN WESTWARDS ALONG LEE HIGHWAY.

**ADJACENT PROPERTIES:**

RESIDENTIAL SINGLE-FAMILY ATTACHED UNITS ARE AT THE NORTHWEST AND SOUTHEAST CORNERS OF THE INTERSECTION. CONDOMINIUM IS AT THE SOUTHWEST CORNER OF THE INTERSECTION.

**OFF-SITE AREAS:**

ALL WORK IS DONE WITHIN THE COUNTY'S RIGHT-OF-WAY AND EASEMENT FOR PUBLIC STREET AND UTILITIES PURPOSES.

**CRITICAL AREAS:**

THERE ARE NO STEEP SLOPES OR CRITICAL AREAS LOCATED IN THE AREAS TO BE DISTURBED.

**EROSION AND SEDIMENT CONTROL MEASURES:**

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDES INLET PROTECTION AND SILT FENCE. INLET PROTECTION MAY BE REQUIRED OUTSIDE THE PROJECT LIMITS WHEN RUNOFF FROM ANY DISTURBED AREA FLOWS OFFSITE.

**PERMANENT STABILIZATION:**

ALL OF THE AREA DISTURBED WITH THIS PLAN WILL BE RETURNED TO A SIMILAR CONDITION TO EXISTING. ALL AREA NOT STABILIZED WITH PAVEMENT WILL BE STABILIZED WITH GRASS OR MULCH.

**STORMWATER RUNOFF CONSIDERATIONS:**

RUNOFF SHALL BE TREATED WITH SILT FENCE NO INLET PROTECTIONS PRIOR TO ENTERING EXISTING STORM SEWER SYSTEMS ALONG THE STREETS. THE PROPOSED IMPROVEMENT WILL NOT CHANGE EXISTING DRAINAGE PATTERN. AND THE IMPERVIOUS AREA WILL BE REDUCED AFTER THE DEVELOPMENT. THEREFORE THERE WILL BE NO ADVERSE IMPACT TO EXISTING STORM DRAIN SYSTEM NOR DOWNSTREAM PROPERTIES.

**EROSION & SEDIMENT CONTROL PROGRAM:**

1. EROSION CONTROL PLAN IS INTENDED TO PERIMETER CONTROL MEASURES WHICH INCLUDES INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.

2. NO DISTURBED AREA WILL REMAIN DENUEDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY ARLINGTON COUNTY.

3. WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL SHALL BE PLACED IN STREAMBEDS, ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 14 DAYS SHALL BE SEEDED AND MULCHED. WHEN SPOIL IS PLACED ON THE DOWNHILL SIDE OF TRENCH, IT SHALL BE BACKSLOPED TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE SHALL OUTLET IN A STABILIZED AREA OR A SEDIMENT TRAPPINGS DEVICE.

4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.

5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.

6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION

7. ALL PRACTICES AND CONTROL DEVICES DESCRIBED HEREON, SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:

A. CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS, AND SHALL WORK THOSE AREAS TO MINIMIZE THE EXTENT OF HEAVY EQUIPMENT WORK. CONTRACTOR SHALL STRIVE TO BRING AREAS TO GRADE (ROUGH OR FINISH) AND TO STABILIZE, BY TEMPORARY OR PERMANENT VEGETATION, THESE DISTURBED AREAS PRIOR TO BEGINNING WORK IN ANOTHER AREA.

B. FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE LEFT ROUGHENED TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL RE-DIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTURBED AREAS TO STABILIZED OUTLETS.

C. CUT SLOPE, AS NECESSARY, SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS ABOVE THE SLOPE AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.

D. IN NEW PAVEMENT AREAS, PLACE THE AGGREGATE BASE STONE ON THE FINISH SUBGRADE AT THE EARLIEST POSSIBLE TIME.

**POLLUTION PREVENTION PLAN (P2 PLAN) NOTES**

ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S M54 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:

WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005/2011); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.

APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S M54 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.

PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

**MAINTENANCE PROGRAM:**

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

- 1. THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREA (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.
- 2. ALL SEDIMENT TRAPPING DEVICES SHALL BE CLEARED OUT AT 50% TRAP CAPACITY AND THE SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE DUMP SITE.
- 3. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT MUD AND/OR OTHER DEBRIS FROM BEING ENTERED ONTO EXISTING SWM/BMP FACILITIES OR DOWN STREAM WATER WAYS. SHOULD OFF SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE EFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.
- 4. AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ANY REMAINING DENUEDED AREAS SHALL BE STABILIZED. CERTAIN DEVICES MAY BE REMOVED PRIOR TO CONSTRUCTION COMPLETION BUT ONLY WITH THE APPROVAL OF THE COUNTY INSPECTOR.
- 5. AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS SHALL BE STABILIZED. UPON APPROVAL OF THE COUNTY INSPECTOR, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION WITHIN 30 DAYS.

**GENERAL LAND CONSERVATION NOTES**

- 1. NO DISTURBED AREA WILL REMAIN DENUEDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
- 2. ALL EROSION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- 3. ALL STORM AND SANITARY SEWER LINES NOT IN STREET ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME
- 4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHED ARE TO BE COMPACTED, SEEDED AND MULCH WITHIN 5 DAYS OF BACKFILL.
- 5. ALL TEMPORARY BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILE
- 6. DURING CONSTRUCTION, ALL STORM INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- 7. ANT DISTURBED AREA NOT COVERED NY NOTE # 1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
- 8. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUEDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

TABLE 6 - 1

**GENERAL EROSION AND SEDIMENT CONTROL NOTES**

- 1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
- 2. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- 3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN THE AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- 7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- 8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- 9. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RAINFALL-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

**TEMPORARY SEEDING:**

SEE SHEET III-288 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES. THE REQUIREMENTS OF THE "SOUTH" PLANTING REQUIREMENTS SHALL BE FOLLOWED. LIMITING SHALL BE BASED ON TABLE 3.31-A OF VESCH. FERTILIZERS SHALL BE APPLIED AS 600 LB/ACRE. THE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2-4" OF SOIL. SEED SHALL BE EVENLY APPLIED AND SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5" DEEP. SEEDING MADE IN FALL FOR WINTER COVER AND DURING HOT SUMMER MONTHS SHALL BE MULCHED.

**PERMANENT SEEDING:**

THE SUBJECT SITE IS LOCATED IN THE COASTAL PLAIN AREA OF VIRGINIA, THEREFORE, SHEET III-304 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.

**SODDING:**

SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TEST SHOULD BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. PRIOR TO LAYING SOD, SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS AND LARGE OBJECTS. QUALITY OF SOD SHALL BE STATE CERTIFIED AND ENSURE GENETIC PURITY AND HIGH QUALITY. SOD SHALL NOT BE LAID IN EXCESSIVELY WET OR DRY WEATHER AND BE DELIVERED AND INSTALLED WITHIN 36 HOURS. SOD SHOULD NOT BE LAID ON FROZEN SOIL SURFACE AND SHALL BE INSTALLED PER PAGE III-339 OF VESCH.

**DUST CONTROL:**

DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS TO INCLUDE VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE, BARRIERS, AND CALCIUM CHLORIDE. THE IMPLEMENTATION OF THE DUST CONTROL METHODS SHALL BE INSTALLED PER SECTION 3.39 OF VESCH.

**UTILITY INSTALLATION:**

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

- 1. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- 2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- 3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- 4. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- 5. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- 6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

**EROSION & SEDIMENT CONTROL:**

STEP 1:

- 1. INSTALL INLET PROTECTION AT ALL EXISTING STORM DRAIN INLETS THAT MAY BE IMPACTED BY RUNOFF FROM THE SITE. INSTALL SILT FENCE OUTSIDE OF THE EXISTING SIDEWALK IN THE GRASS AREA AS SHOWN ON THE EROSION AND SEDIMENT CONTROL DRAWING.
- 2. PROVIDE A FILTER BOX FOR ALL LOCATIONS WHERE EXCAVATION TRENCHES WILL REQUIRE EJECTION PUMPING FOR RUN OFF ACCUMULATION.

STEP 2:

- 1. FOLLOWING COMPLETION OF EROSION CONTROL INSTALLATION AS DESCRIBED IN STEP 1 OF THE SEDIMENT CONTROL PROGRAM, AND AFTER APPROVAL BY THE COUNTY INSPECTOR, CLEAR AND GRUB THE REMAINDER OF THE SITE.
- 2. IMMEDIATELY FOLLOWING CLEARING OF THE SITE SUPPORTING STRUCTURES SHALL BE INSTALLED. CAUTION CARE MUST BE TAKEN .
- 3. BEGIN GRADING SITE AS REQUIRED AND IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PROGRAM.
- 4. DEMOLITION OF EXISTING PAVEMENT, NOT TO REMAIN, AND ANY EXCESS SOIL MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH VDOT REGULATIONS.
- 5. INSTALL CURB AND GUTTER, AND APPLY THE BASE STONE FOR THE STREETS WITHIN 5 DAYS AFTER REACHING FINAL SUBGRADE.
- 6. AFTER CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND SHALL BE PERMANENTLY STABILIZED WITH VEGETATION UPON THE APPROVAL OF THE COUNTY INSPECTOR.

**PROJECT WATERSHED:**

THE PROJECT IS LOCATED WITHIN THE SPOUT RUN (PL24).

**Pre-Storm Erosion and Sediment Control Checklist**

Per Erosion and Sediment Control General Note 6, the Contractor is responsible for the installation and maintenance of any additional erosion and sediment control (ESC) measures necessary to prevent erosion and sedimentation as determined by the County. These supplementary practices are in addition to those shown in an ESC plan. ESC practices shall be modified as needed to ensure only clear water is discharged from the site.

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

**Perimeter controls**

- Silt fence shall be checked for undermining, holes, or deterioration of the fabric. Fencing shall be replaced immediately if the fabric is damaged or worn. Silt fence must be trenched into the ground per state specifications (Std & Spec 3.09).
- Wooden stakes or steel posts shall be properly secured upright into the ground. Damaged posts or stakes must be replaced.
- Sediment that has accumulated against the silt fence should be removed. Accumulated sediment must be removed when the level reaches one-half the height of the fencing.
- Hay bales or a stone berm should be placed across the construction entrance to prevent sediment from leaving the construction site.

**Exposed slopes and soil**

- Exposed slopes not at the final stabilization phase shall be covered with tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
- Controls shall be installed to prevent concentrated flow down an exposed slope. Berms or diversion dikes shall be installed at the top of cut / exposed slopes to direct storm flow around the disturbed area.
- Exposed slopes at the final stabilization phase shall be stabilized using slope stabilization practices such as soil stabilization blankets or matting as specified in the Virginia Erosion and Sediment Control Handbook (VESCH) Std & Spec 3.36. Blankets or mats must be properly secured and anchored to the slope using staples, pins, or stakes.
- Seeded areas shall be checked and reseeded as necessary to cover exposed soil. Recently seeded areas shall be protected by straw or soil stabilization blankets to prevent seeding from being washed away.

**Stockpiles**

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

**Inlet protection**

- Inlet protection controls shall be inspected to ensure they are functioning properly and flooding will not occur. Clogged or damaged controls must be replaced immediately. Ensure controls allow for overflow / bypass of stormwater runoff during significant storm events.

In addition to these pre-storm actions, all erosion and sediment control (ESC) measures must be checked daily and after each significant rainfall.

TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS

APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)  
Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:  
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.  
2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.  
3 - When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

TABLE 3.32-D (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue1	95-100%
	Perennial Ryegrass	0-5%
	Kentucky Bluegrass1	0-5%
		TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue1	TOTAL: 200-250 lbs.
General Slope (3:1 or less)	Tall Fescue1	128 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop2	20 lbs.
		TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue1	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop2	20 lbs.
		TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at <http://sudan.cses.vt.edu/html/Turf/turfpublications/publications2.html>

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February 16th - April .....	Annual Rye
May 1st - August 15th .....	Foxtail Millet
August 16th - October .....	Annual Rye
November - February 15th .....	Winter Rye

3 - Substitute Sericea lespeedea for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40

FERTILIZER & LIME

Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)  
Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:  
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.  
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.  
- When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

**NET CHANGE IN IMPERVIOUS:**

	IMPERVIOUS	PERVIOUS
EXISTING	3,050.45 SF	234.04 SF
PROPOSED	2,950.87 SF	333.62 SF
NET	(-) 99.58 SF	(+) 99.58 SF

( + ) INDICATES INCREASE IN AREA



DEPARTMENT OF ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
TRANSPORTATION ENGINEERING & OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719

COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

**SEAL**



**APPROVALS DATE**

John Yasson 1/31/2022  
TRAFFIC SIGNAL ENGINEER  
Bi Feng Wu 03/18/2022  
TRAFFIC ENGINEERING MANAGER  
Dale 02.18.2022  
WATER, SEWER, STREETS BUREAU CHIEF  
Herry 03/18/2022  
TE&O BUREAU CHIEF  
Dennis W. Leach 03/21/22  
TRANSPORTATION DIRECTOR

**REVISIONS DATE**

REVISIONS	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
EROSION AND SEDIMENT CONTROL NOTES  
INTERSECTION SIGNAL IMPROVEMENT TR07

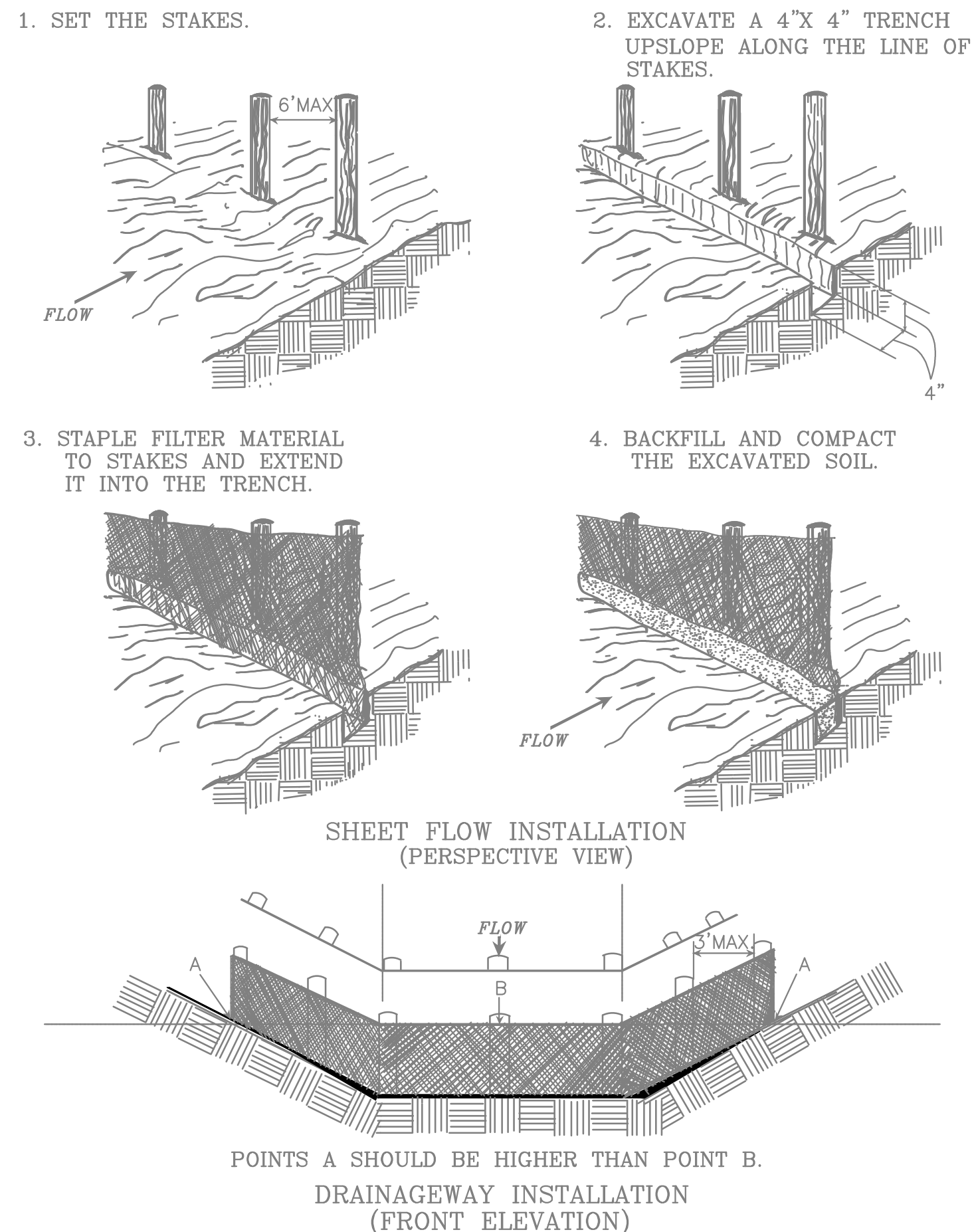
DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS E&S PLANS.DWG  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY, ADAMS ST\RAW\CD\SHETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

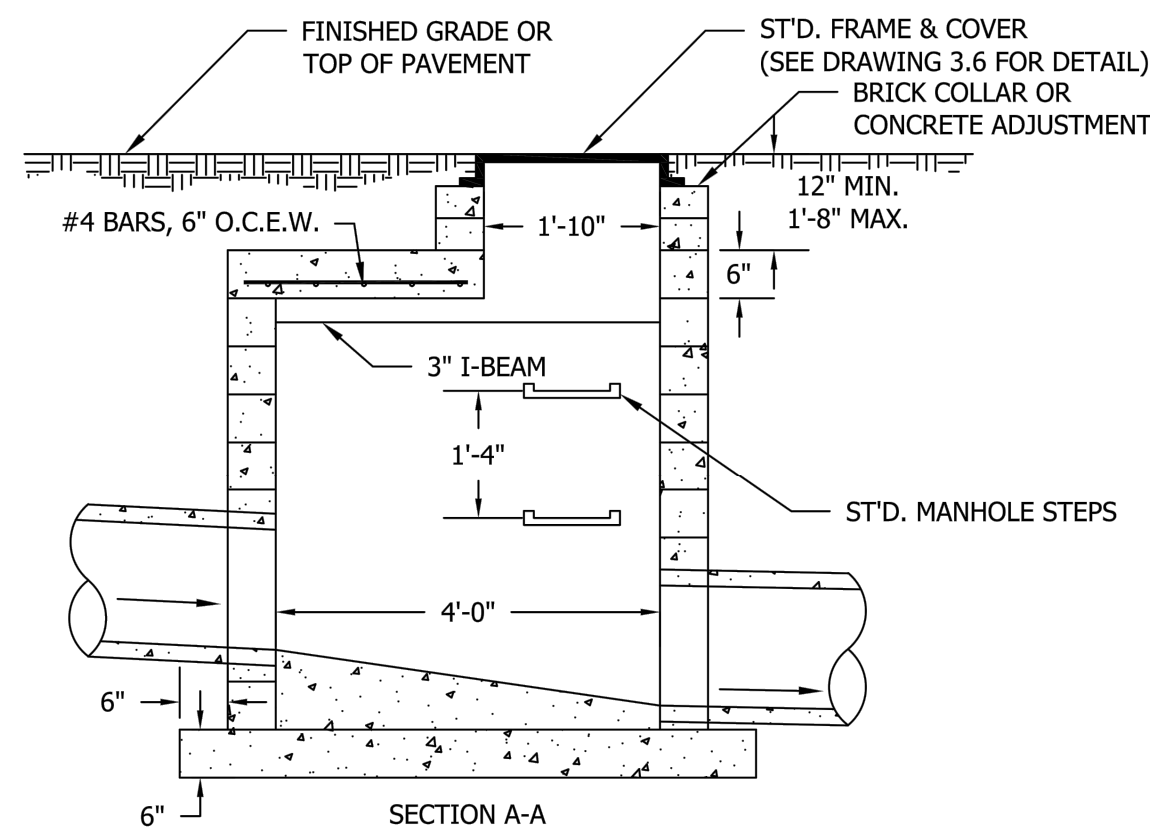
**SCALE**  
NOT TO SCALE

SHEET  
**C7 OF C23**

### CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, VA. DSWC PLATE: 3.05-2 Sherwood and Wyant

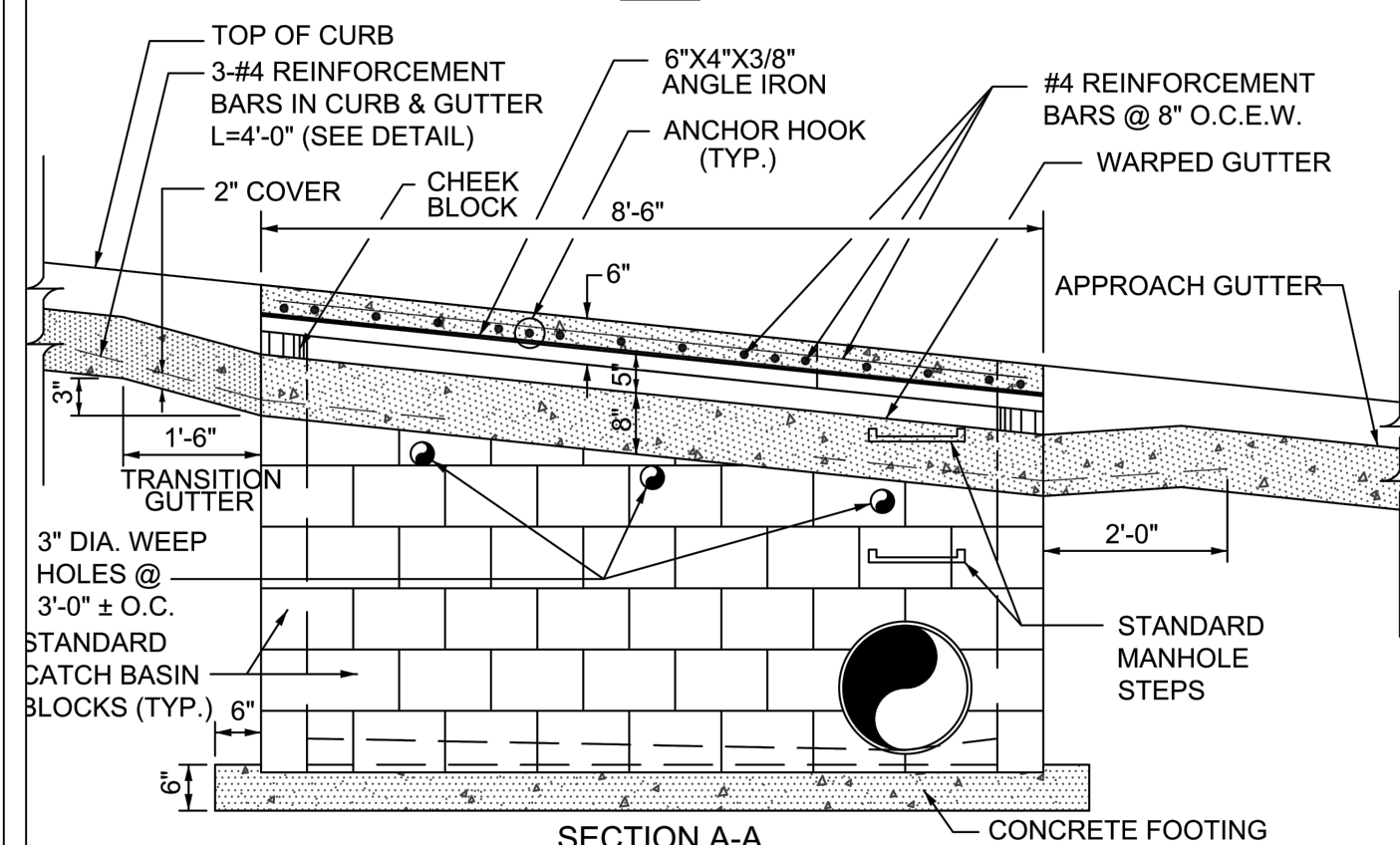
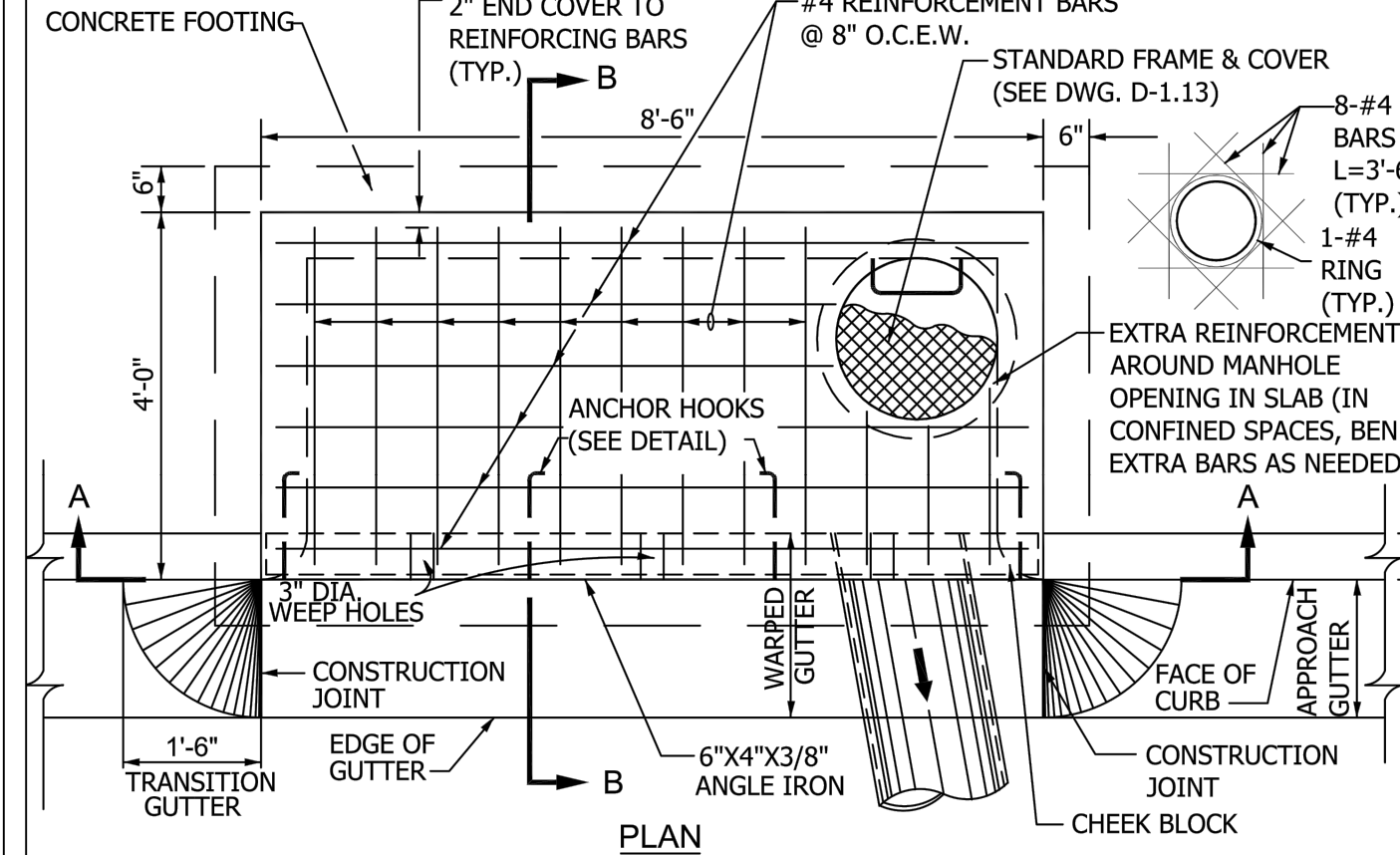


- NOTES:
1. EXPOSED MANHOLE FRAME, LID, GRATES AND BEAMS TO BE FIELD PAINTED WITH BLACK ASPHALTIC PAINT.
  2. PROVIDE 1 1/2" OF COVER FOR ALL REINFORCING STEEL.
  3. EACH MANHOLE INVERT SHALL BE INDIVIDUALLY SHAPED TO PROVIDE A SMOOTH FLOW LINE THROUGH MANHOLE. (SEE DRAWING D-2.1 AND NOTE 5 ON DRAWING D-1.1).
  4. MANHOLES DEEPER THAN 4'-0" SHALL HAVE STEPS 1'-4" O.C. (SEE DRAWING M-2.0).
  5. FOR DETAILS OF MANHOLE BLOCK, SEE DRAWING D-2.0.

**STORM SEWER MANHOLE, MH-1  
FOR PIPE SIZES 15" THROUGH 36"**

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

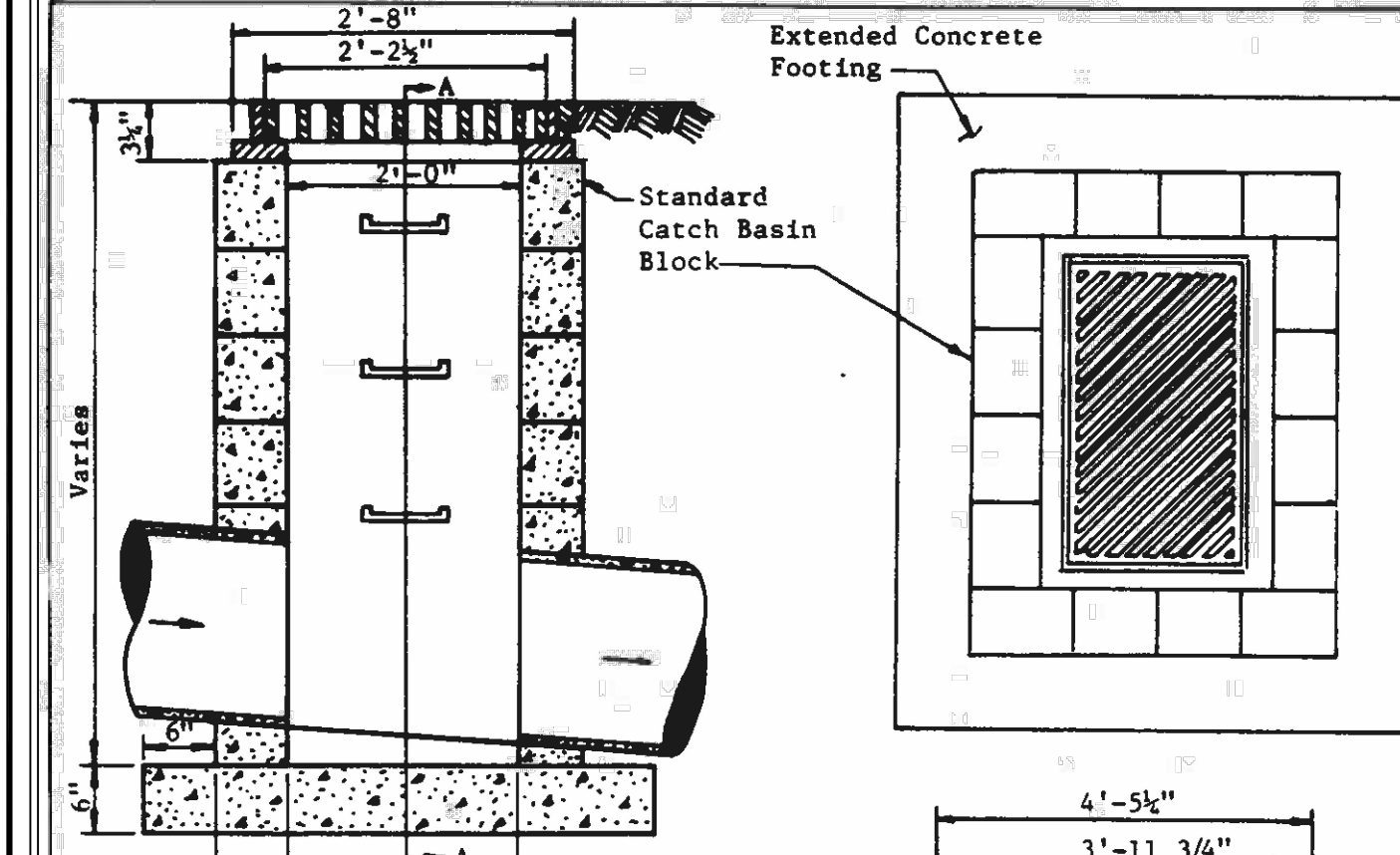
ISSUED 9/14/2020  
DRAWING NO. **D-3.0**



**STANDARD CATCH BASIN, CB-2**

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020  
DRAWING NO. **D-1.2 (1 of 2)**

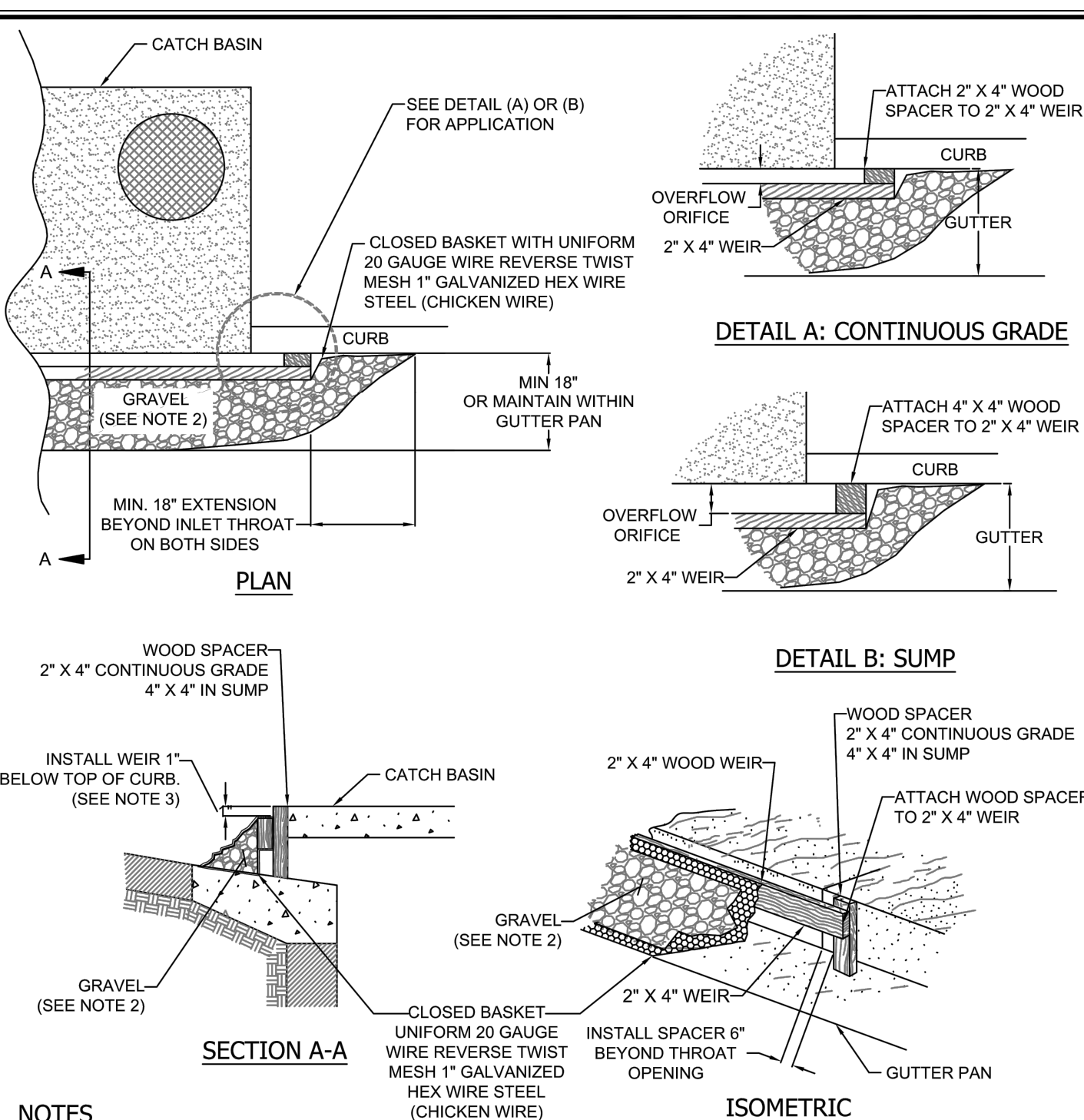


- NOTES:
1. For Notes, see Drawing D-1.1.
  2. Grate shown is available as pattern R-3574 by Neenah Foundry, and is to be used for light traffic areas, or in non street use. For heavy traffic area pattern R-3572 shown on Drawing 3.2 shall be used.
  3. When this grate can not be oriented so as to preclude bicycle traffic from crossing grate at an angle parallel to the direction of the vanes then 1/8" x 1" metal slats shall be welded transverse to the vanes at a spacing of 9".

**CATCH BASIN WITH GRATE TOP, CB-3**

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF PUBLIC WORKS

ISSUED 11/9/19  
DRAWING NO. **D-1.7**

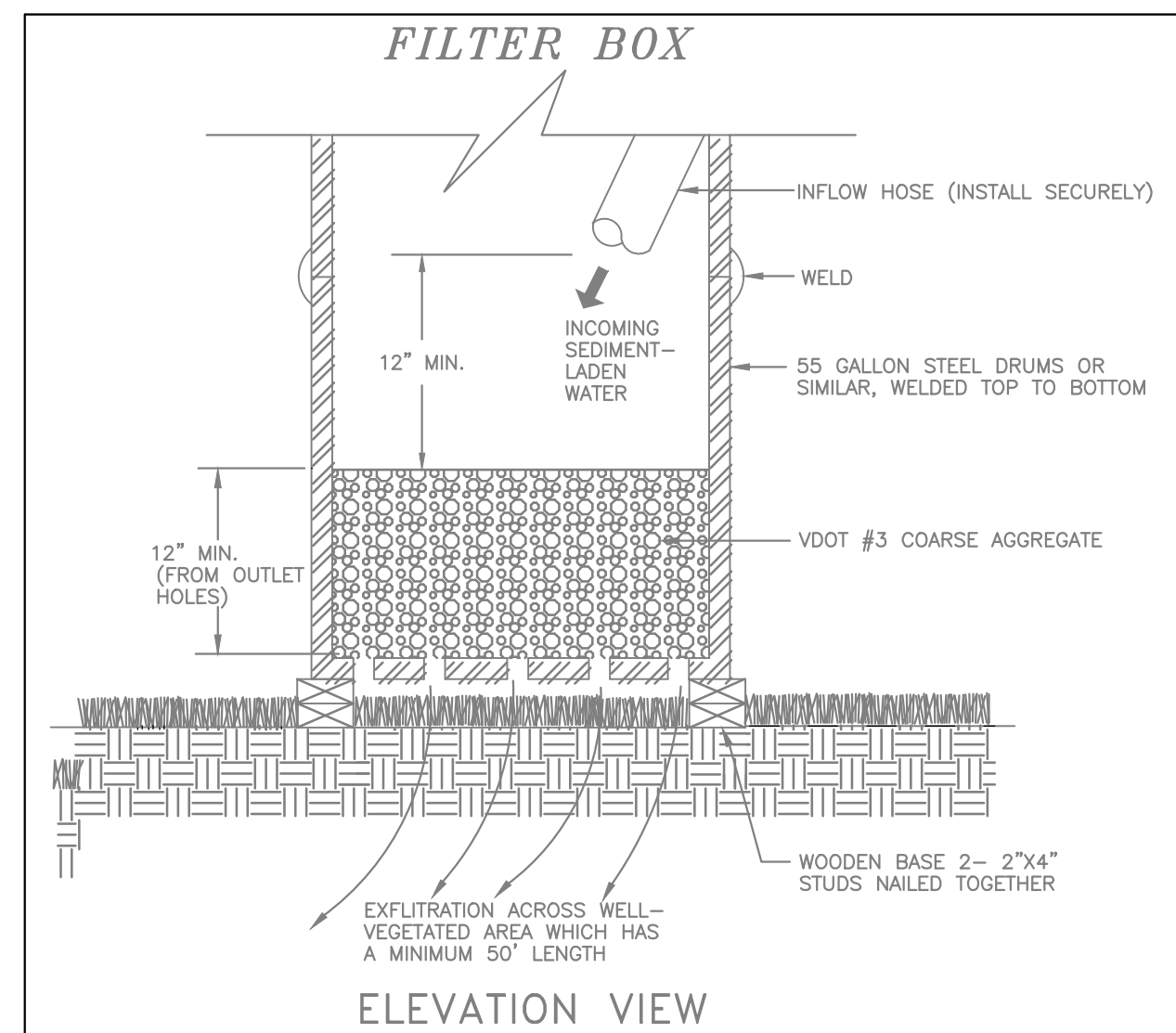


- NOTES:
1. DIMENSIONAL LUMBER SIZES SHOW.
  2. GRAVEL SHALL BE VDOT COARSE AGGREGATE #3, 357 OR #5.
  3. WEIR HEIGHT MAY BE ADJUSTED BY PROJECT OFFICER OR INSPECTOR IN FLOOD PRONE AREAS.
  4. PAINT 2" X 4" WEIR, CLOSED BASKET, AND GUTTER WITH HIGH VISIBILITY INCANDESCENT ORANGE PAINT.
  5. REMOVE SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE THE PROTECTION.

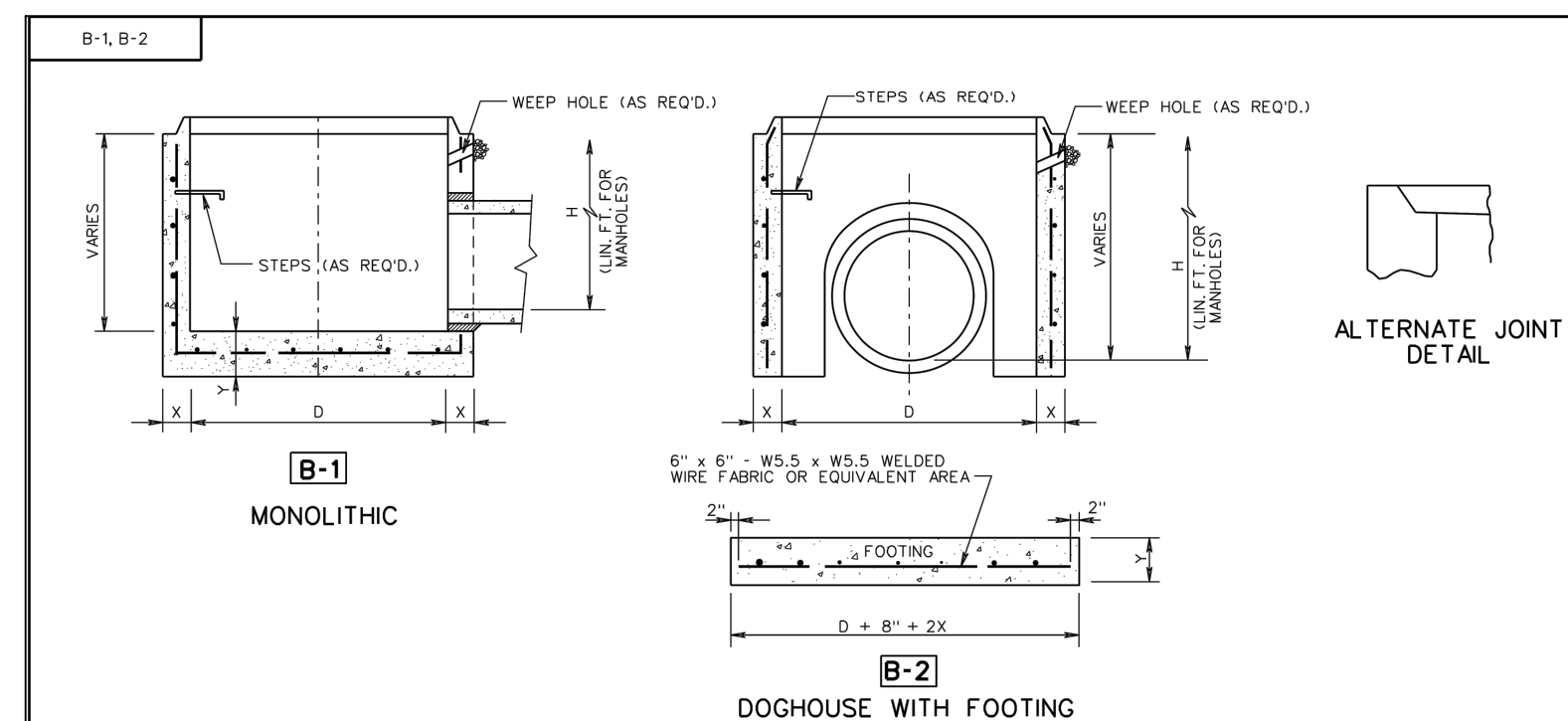
**CURB INLET PROTECTION**

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020  
DRAWING NO. **3.07-7 (ACG)**



SOURCE: VA. DSWC PLATE: 3.26-2



- NOTES:
1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON WEEP HOLES, STEP REQUIREMENTS, "N" DIA. FT. FOR MANHOLES DIMENSIONS, ETC.
  2. ALL BASE UNITS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASHTO M199.
  3. CONCRETE SHALL BE 4000 PSI.
  4. WHERE OPENINGS ARE REQUIRED FOR PIPE, THEY SHALL BE FORMED, DRILLED, OR NEATLY CUT AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH THE FABRICATOR WITH THE ANGLES BETWEEN CENTER LINES TO THE INVERT ELEVATIONS AND THE SIZE OF ALL PIPES TO ENTER THE MANHOLE. HOLES ARE TO BE A MINIMUM OF 4" TO A MAXIMUM OF 8" LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE.
  5. DIMENSIONS SHOWN ARE MINIMUM. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.
  6. "D" IS NOMINAL DIAMETER.
  7. IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE BOTTOM OF THE STRUCTURE, THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMENT MORTAR TO PREVENT STANDING OR PONDING OF WATER IN THE STRUCTURE.
  8. TONGUE AND GROOVE JOINT ARE TO BE OF FABRICATOR'S DESIGN MEETING VDOT APPROVAL. JOINTS ARE TO BE SEALED WITH MORTAR, O-RING GASKETS, OR BUTYL RUBBER.

DIMENSIONS				
D	MINIMUM	Y	SUGGESTED MAX. PIPE SIZE	ABSOLUTE MAXIMUM
36"	4"	5"	18"	21"
48"	5"	6"	24"	27"
60"	6"	8"	36"	42"
72"	6"	8"	48"	54"
84"	6"	8"	60"	66"
96"	6"	8"	66"	72"
108"	6"	8"	72"	84"
120"	6"	8"	80"	96"
132"	6"	8"	86"	102"
144"	6"	8"	108"	120"

VDOT STANDARD PRECAST BASE UNITS

ROAD AND BRIDGE STANDARDS

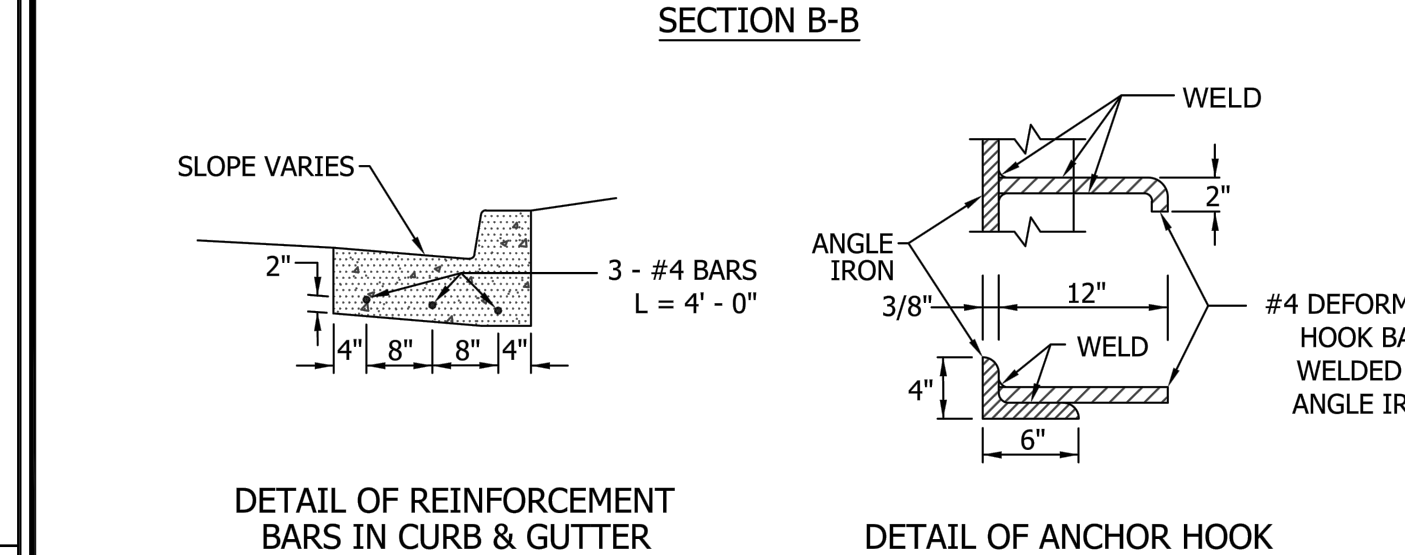
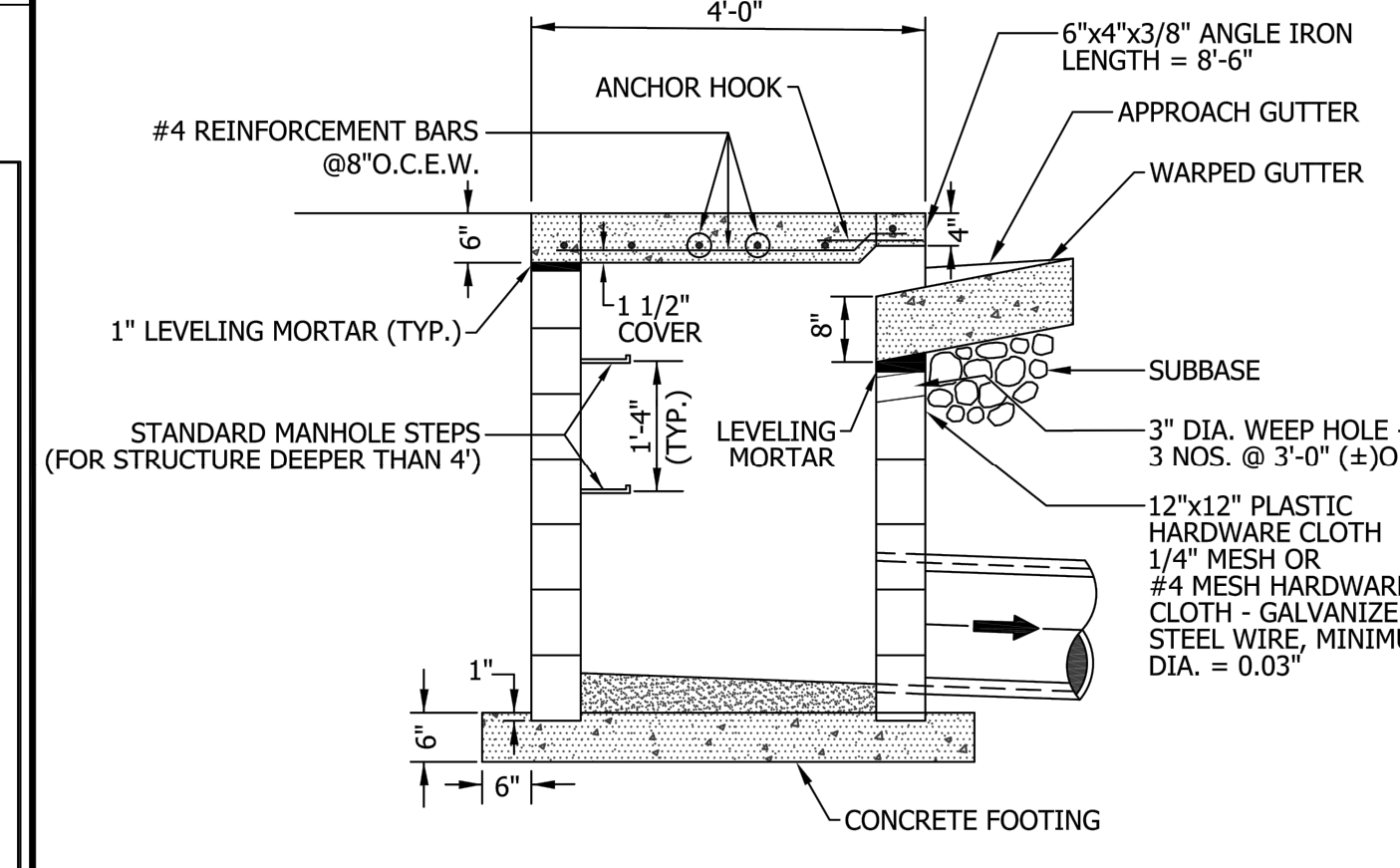
SHEET 1 OF 1

REVISION DATE 08/17

VIRGINIA DEPARTMENT OF TRANSPORTATION

2016 ROAD & BRIDGE STANDARDS

105 302



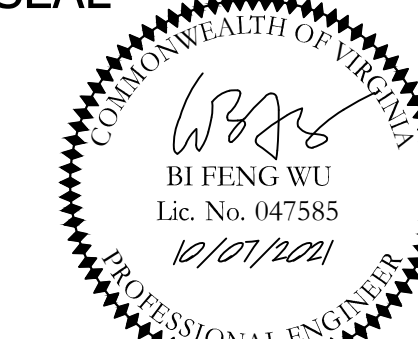
- NOTES:
1. THE CROSS SLOPE ON THE TOP SLAB SHALL MATCH SLOPE ON THE ADJOINING EXISTING OR PROPOSED SIDEWALK.
  2. ENSURE THE PROVISION OF AN EXPANSION JOINT THROUGH THE CURB & GUTTER AND SIDEWALK WITHIN 5'-0" MINIMUM TO 10'-0" MAXIMUM FROM THE OUTER FACE OF THE CATCH BASIN, ONE ON EACH SIDE (TOTAL 2 JOINTS).

**STANDARD CATCH BASIN, CB-2**

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020  
DRAWING NO. **D-1.2 (2 of 2)**

SEAL



APPROVALS	DATE
John Yasson	1/31/2022
Traffic Signal Engineer	
Bi Feng Wu	03/18/2022
Graphic Engineering Manager	
Chadwick	02.18.2022
Water, Sewer, Streets Bureau Chief	
Tommy	03/18/2022
TE&O Bureau Chief	
Dennis W. Leach	03/21/22
Transportation Director	

REVISIONS DATE

REVISION NO.	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**

EROSION AND SEDIMENT CONTROL DETAILS

INTERSECTION SIGNAL IMPROVEMENT TR07

DESIGNED: BW  
DRAWN: JM  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS E&S PLANS.DWG  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY, ADAMS ST\ROAD\DRSHEETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

SCALE  
**NOT TO SCALE**



SEAL



APPROVALS DATE

DESIGN TEAM SUPERVISOR \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

WATER, SEWER, STREETS BUREAU CHIEF \_\_\_\_\_

TE&O BUREAU CHIEF \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

REVISIONS DATE

Update for LDA Requirements 8/11/2023

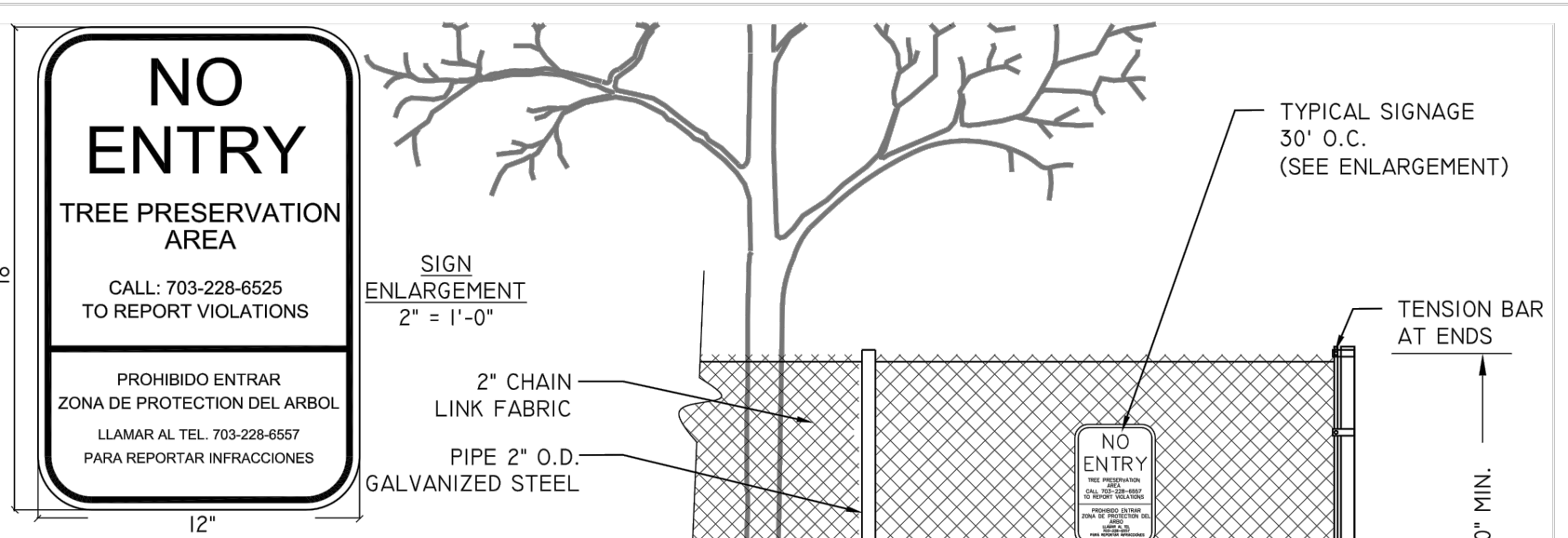
PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
EROSION AND SEDIMENT CONTROL DETAILS  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS E&S PLANS.DWG  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\DRAWING\DETAILS\TR07.DWG  
PLOTTED: JULY 5 2023  
PLOTTED BY: JMCARTHAY

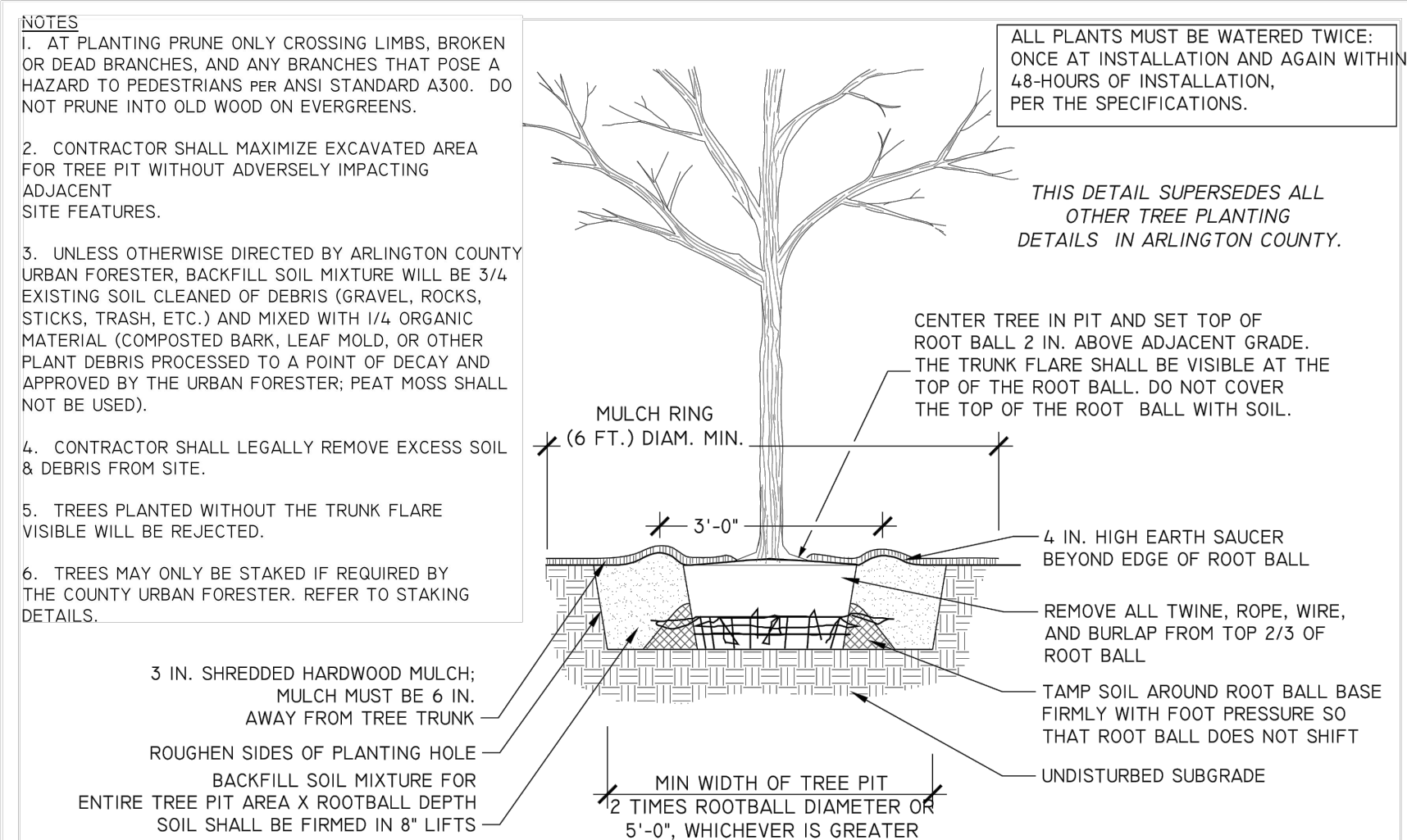
SCALE  
NOT TO SCALE

SHEET  
**C8A OF C23**

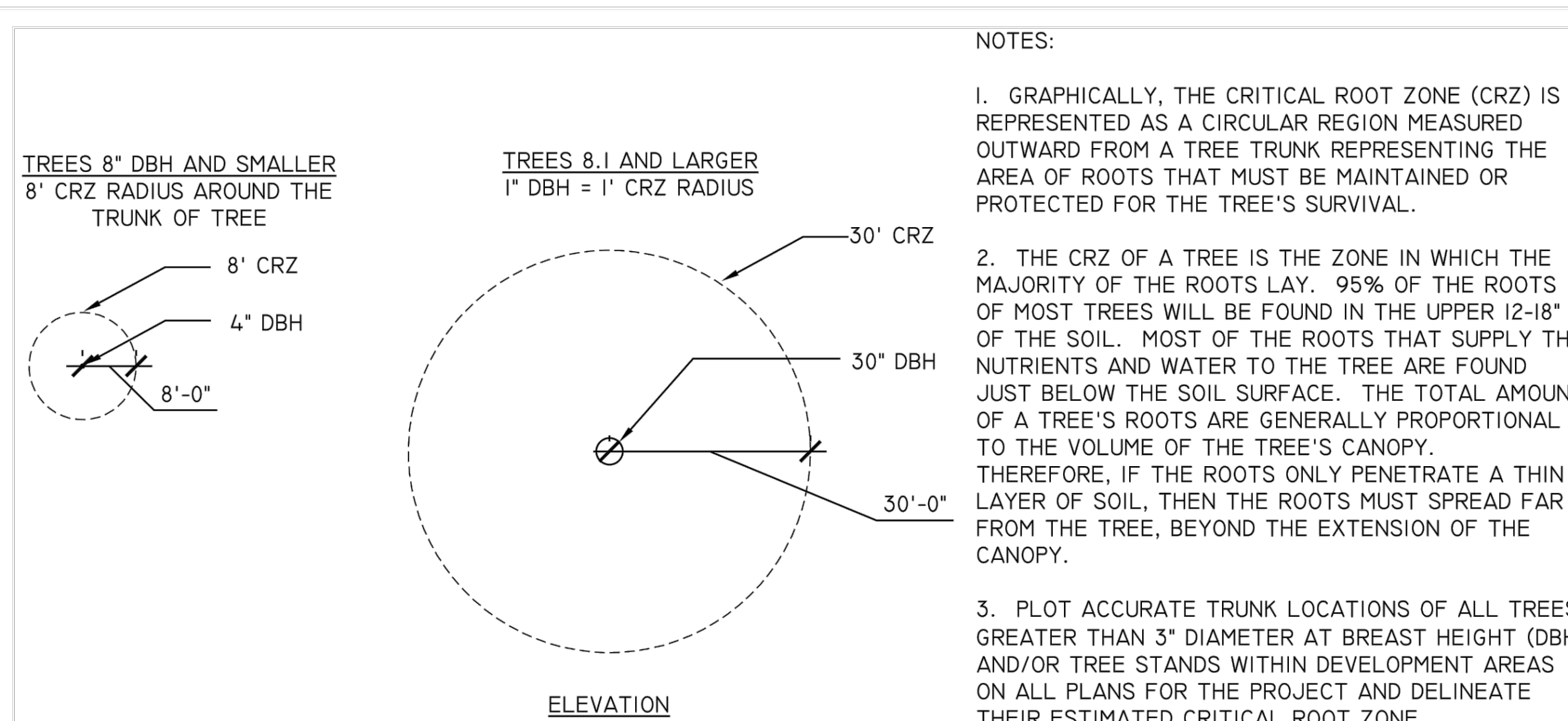


- NOTES:
1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
  2. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.
  3. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
  4. SIGN MATERIAL TO BE WEATHER RESISTANT.

**4" CHAIN LINK TREE PROTECTION FENCE (RESIDENTIAL)**  
311300.2 (2016) (02231.2)  
ARLINGTON DPR

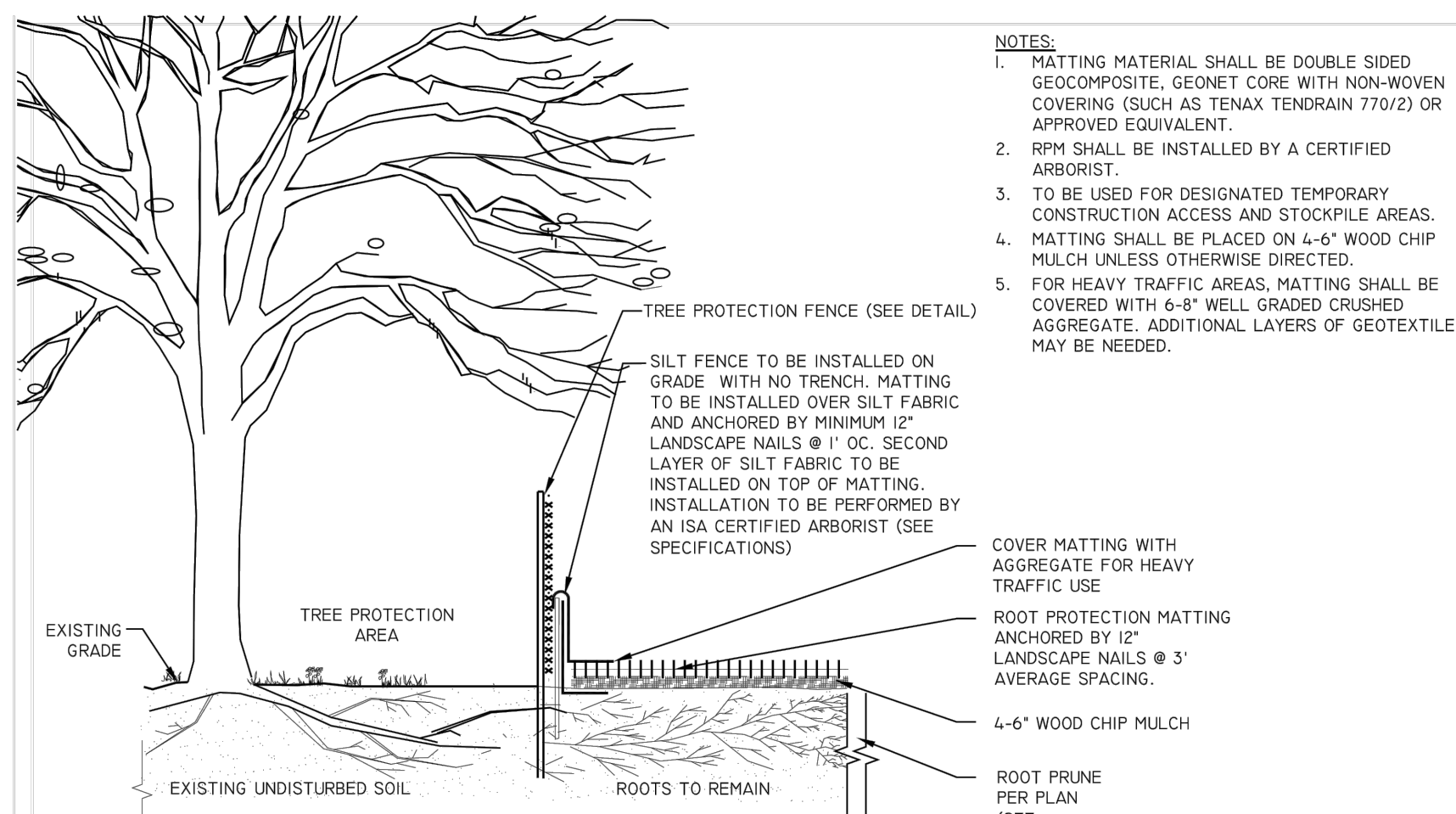


**TREE PLANTING DETAIL**  
FOR OPEN PLANTING AREAS FREE OF PAVING OR GRATES  
329300.1 (2019)  
ARLINGTON DPR



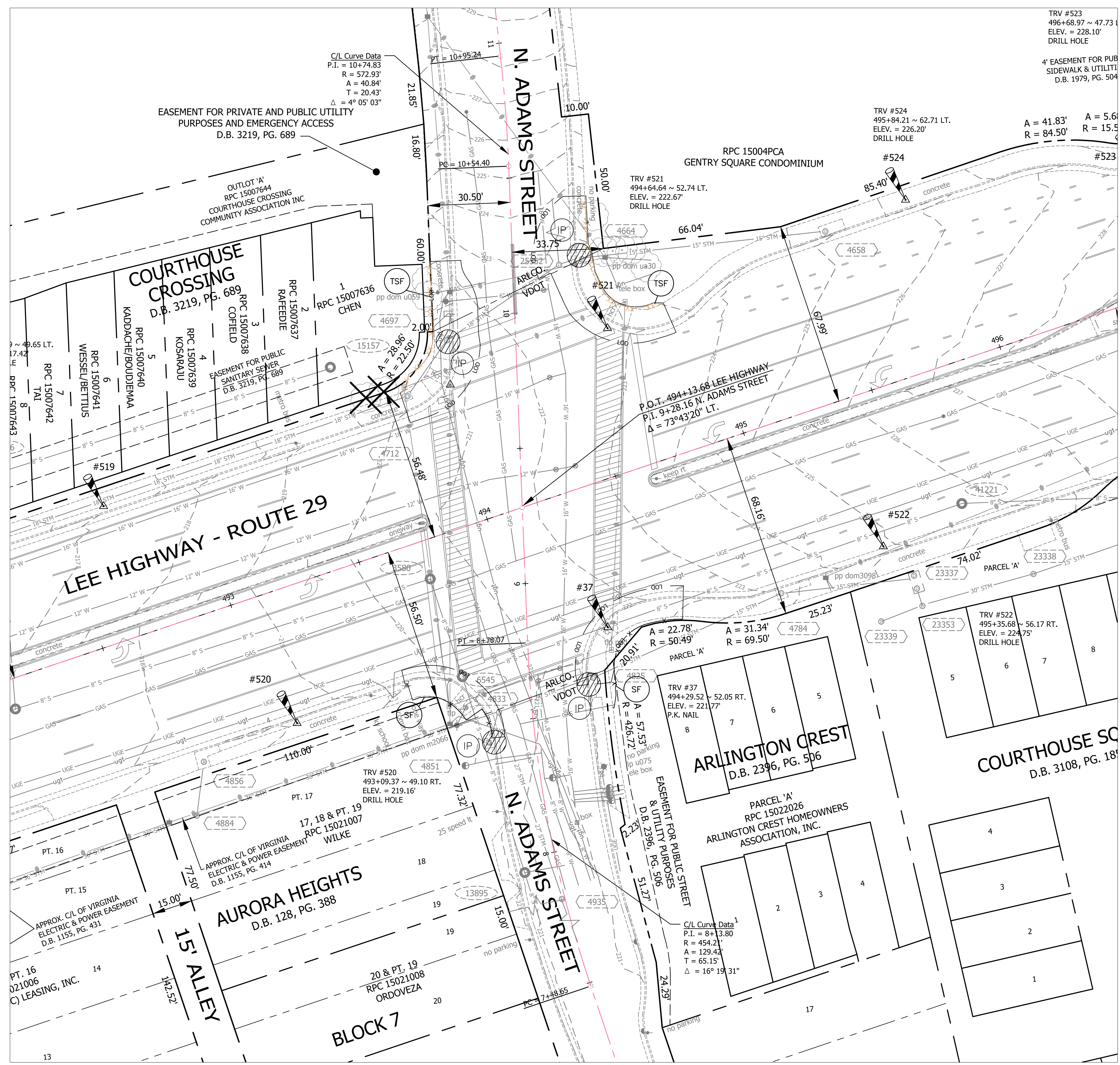
- NOTES:
1. GRAPHICALLY, THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED AS A CIRCULAR REGION MEASURED OUTWARD FROM A TREE TRUNK REPRESENTING THE AREA OF ROOTS THAT MUST BE MAINTAINED OR PROTECTED FOR THE TREE'S SURVIVAL.
  2. THE CRZ OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF THE ROOTS LAY. 95% OF THE ROOTS OF MOST TREES WILL BE FOUND IN THE UPPER 12-18" OF THE SOIL. MOST OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREE'S CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE EXTENSION OF THE CANOPY.
  3. PLOT ACCURATE TRUNK LOCATIONS OF ALL TREES GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) AND/OR TREE STANDS WITHIN DEVELOPMENT AREAS ON ALL PLANS FOR THE PROJECT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.
  4. PLOT ACCURATE TRUNK LOCATIONS OF OFFSITE TREES WHICH WILL HAVE THEIR CRZ AFFECTED BY DEVELOPMENT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

**TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE**  
311300.3 (2019)  
ARLINGTON DPR



**TEMPORARY ROOT PROTECTION MATTING WITHIN CRZ**  
311300.7NS  
ARLINGTON DPR

DETAIL CAN BE MODIFIED WITH PERMISSION OF THE COUNTY URBAN FORESTOR



EROSION & SEDIMENT CONTROL LEGEND  
SEE SHEET C8 AND C8A FOR DETAILS

3.07		INLET PROTECTION
3.05-1		SILT FENCE
311300.7NS		TRENCHLESS SILT FENCE

THIS SHEET IS FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY!

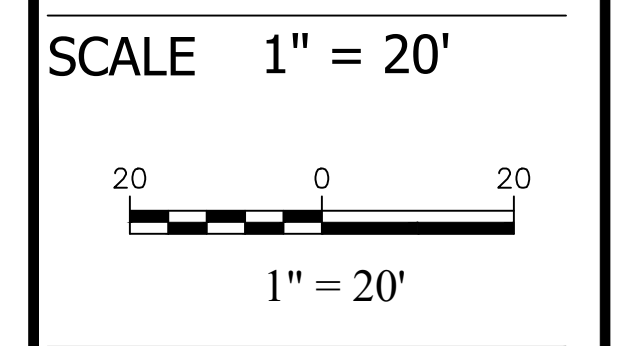


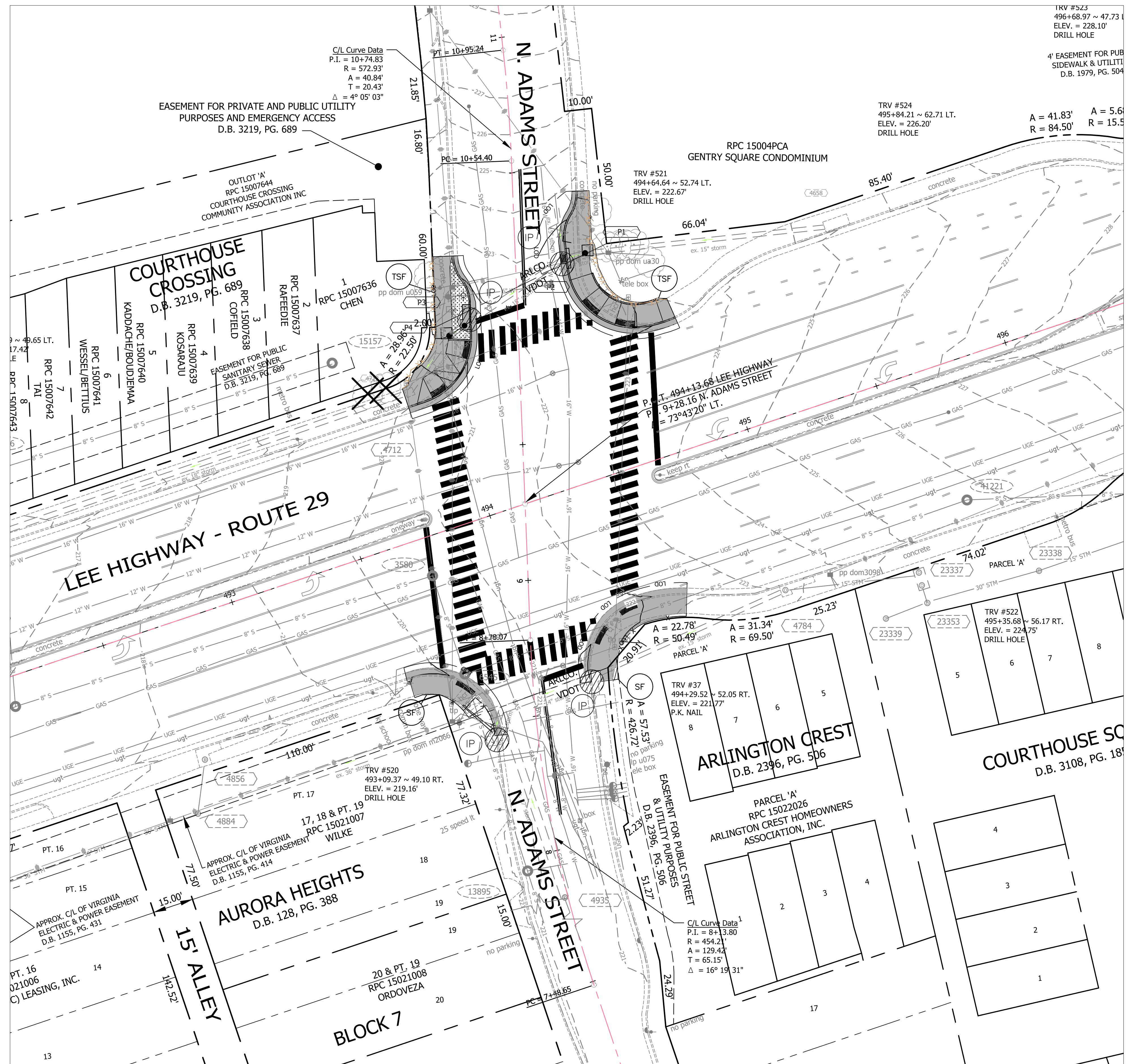
APPROVALS	DATE
DESIGN TEAM SUPERVISOR	
PROJECT MANAGER	
WATER, SEWER, STREETS BUREAU CHIEF	
TE&O BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

REVISIONS	DATE
Update for LDA Requirements	8/11/2023

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
EROSION AND SEDIMENT CONTROL  
PLAN - PHASE I  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A  
FILENAME: TR07 - N ADAMS E&S PLANS.DWG  
PATH: Q:\DATA\TRAFFIC\ARL\LEE HIGHWAY\N ADAMS ST\DRAWING\EROSION AND SEDIMENT SHEETS  
PLOTTED: JULY 5 2023  
PLOTTED BY: JMCARTHY





TRV #523  
495+68.97 ~ 47.73 LT.  
ELEV. = 228.10'  
DRILL HOLE

4' EASEMENT FOR PUBLIC  
SIDEWALK & UTILITY  
D.B. 1979, PG. 504

TRV #524  
495+84.21 ~ 62.71 LT.  
ELEV. = 226.20'  
DRILL HOLE

A = 41.83'  
R = 84.50'

A = 5.6'  
R = 15.5'

RPC 15004PCA  
GENTRY SQUARE CONDOMINIUM

TRV #521  
494+64.64 ~ 52.74 LT.  
ELEV. = 222.67'  
DRILL HOLE

C/L Curve Data  
P.I. = 10+74.83  
R = 572.93'  
A = 40.84'  
T = 20.43'  
Δ = 4° 05' 03"

EASEMENT FOR PRIVATE AND PUBLIC UTILITY  
PURPOSES AND EMERGENCY ACCESS  
D.B. 3219, PG. 689

OUTLOT 'A'  
RPC 15007644  
COURTHOUSE CROSSING  
COMMUNITY ASSOCIATION INC

COURTHOUSE  
CROSSING  
D.B. 3219, PG. 689

EASEMENT FOR PUBLIC  
SANITARY SEWER  
D.B. 3219, PG. 689

PT. 494+13.68 LEE HIGHWAY  
9+28.16 N. ADAMS STREET  
= 73°43'20" LT.

LEE HIGHWAY - ROUTE 29

ARLINGTON CREST  
D.B. 2396, PG. 506

COURTHOUSE CROSSING  
D.B. 3108, PG. 187

AURORA HEIGHTS  
D.B. 128, PG. 388

PARCEL 'A'  
RPC 15022026  
ARLINGTON CREST HOMEOWNERS  
ASSOCIATION, INC.

15' ALLEY

BLOCK 7

EROSION & SEDIMENT CONTROL LEGEND  
SEE SHEET C8 AND C8A FOR DETAILS

3.07	IP		INLET PROTECTION
3.05	SF		SILT FENCE
311300.7NS	TSF		TRENCHLESS SILT FENCE

THIS SHEET IS FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY!



DEPARTMENT OF  
ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
TRANSPORTATION ENGINEERING &  
OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719  
COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL  
RIGHTS RESERVED



APPROVALS	DATE
DESIGN TEAM SUPERVISOR	
PROJECT MANAGER	
WATER, SEWER, STREETS BUREAU CHIEF	
TE&O BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

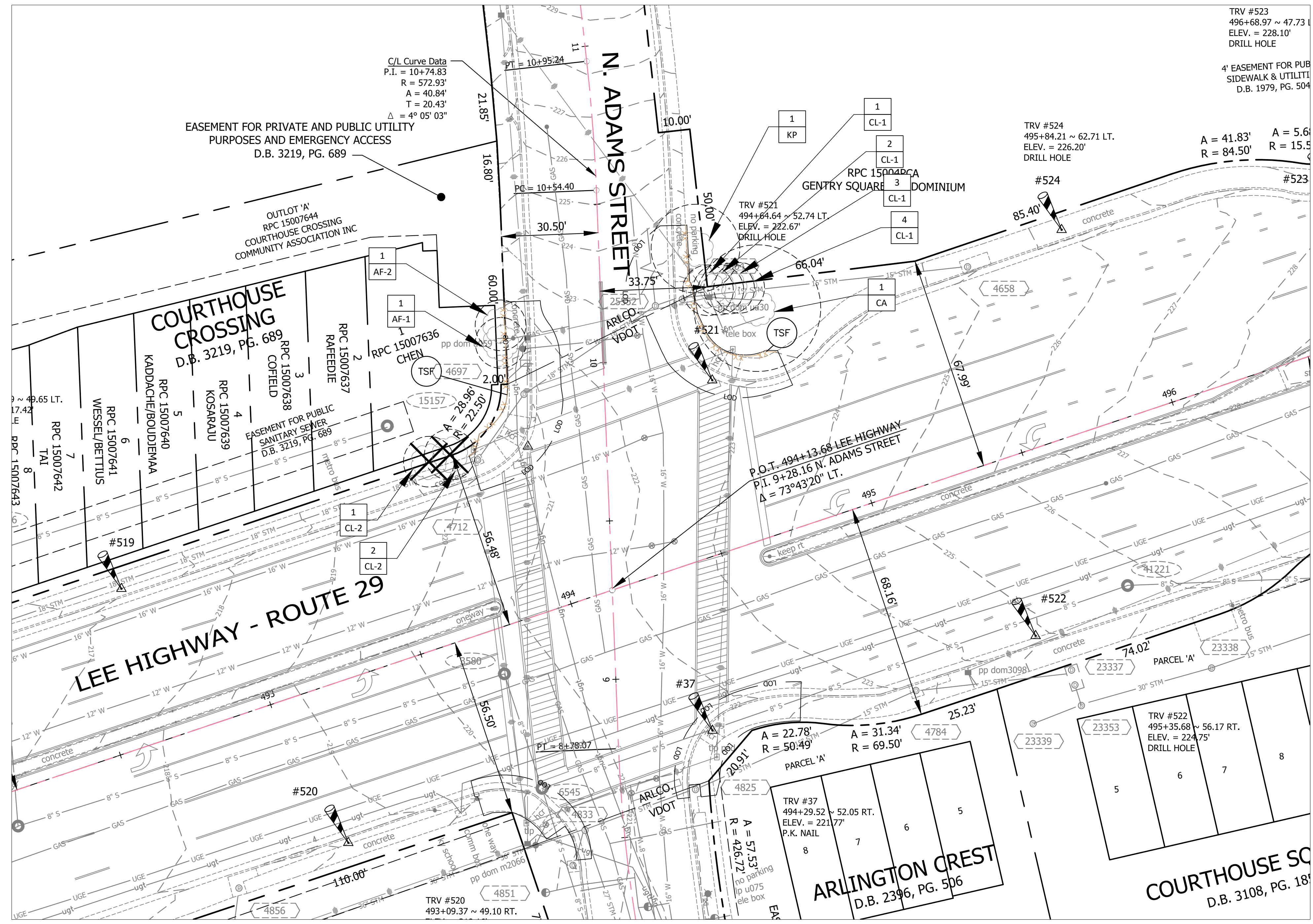
REVISIONS	DATE
Update for LDA Requirements	8/11/2023

PROJECT NAME AND LOCATION  
LEE HIGHWAY &  
NORTH ADAMS STREET  
EROSION AND SEDIMENT CONTROL  
PLAN - PHASE II  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A  
FILENAME: TR07 - N ADAMS E&S PLANS.DWG  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\DRAWING\DESIGN\EROSION AND SEDIMENT SHEETS  
PLOTTED: JULY 5 2023  
PLOTTED BY: JMCARTHY

SCALE 1" = 20'

SHEET  
C10 OF C23



THIS SHEET IS FOR LANDSCAPING PURPOSES ONLY!



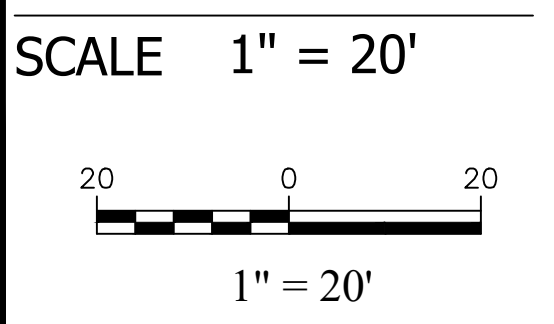
APPROVALS	DATE
DESIGN TEAM SUPERVISOR	
PROJECT MANAGER	
WATER, SEWER, STREETS BUREAU CHIEF	
TE&O BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

REVISIONS	DATE
Update for LDA Requirements	8/11/2023

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
 LANDSCAPE PLAN  
 INTERSECTION SIGNAL IMPROVEMENT TR07

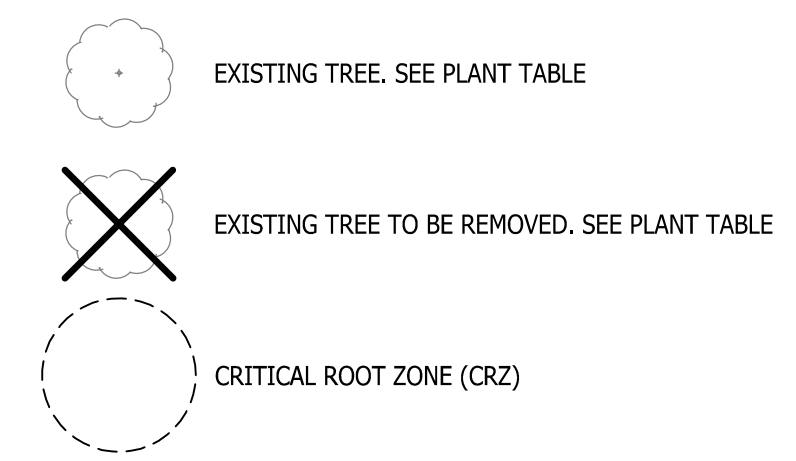
DESIGNED: BW  
 DRAWN: BW  
 CHECKED: JM  
 MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS LANDSCAPE PLAN.DWG  
 PATH: \\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\DRAWING\TR07\LANDSCAPE.DWG  
 PLOTTED: JULY 5 2023  
 PLOTTED BY: JMCARTHY



SHEET **C10A OF C23**

**LEGEND**



**LANDSCAPE NARRATIVE:**  
 WHERE EXISTING PAVEMENT IS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONE OF A TREE, LEAVE PAVEMENT IN PLACE AS LONG AS POSSIBLE DURING CONSTRUCTION. REMOVE PAVEMENT WITH THE ROLLBACK TECHNIQUE, KEEP EQUIPMENT ON PAVING, AND LIMIT OVERDIG. ONCE PAVEMENT HAS BEEN REMOVED, VEHICULAR TRAFFIC IS STRICTLY PROHIBITED UNTIL PAVING IS REPLACED. REPLACED PAVING SHOULD BE BRIDGED, TREE-FRIENDLY DETAIL WITH NO COMPACTION BEYOND 85%. COORDINATE WITH THE URBAN FORESTER WHEN PROCESS OR CONSTRUCTION DETAILS CAN'T FOLLOW THIS SPECIFICATION. THIS NOTE DOES NOT APPLY TO ROADWAYS UNLESS SPECIFICALLY CALLED OUT ON THE PLAN.

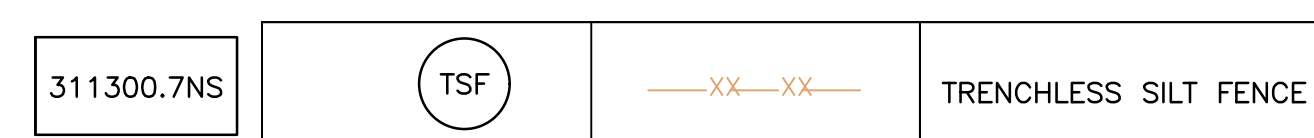
THE PROPOSED WORK IS EXPECTED TO REMOVE TWO (2) EXISTING TREES AND TWO (2) NEW THUJA PLICATA 'GREEN GIANT' TREES WILL BE PLANTED PER COUNTY TREE REPLACEMENT CALCULATION. THE PLANTING LOCATIONS FOR THE NEW TREES WILL BE PROPOSED IN THE SAME LOCATION OF THE EXISTING TREES TO BE REMOVED.

ID	KEY	BOTANICAL NAME	COMMON NAME	DBH	CONDITION RATING	SPECIES RATING	REPLACEMENT VALUE	REPLACEMENT TREES	CRZ IMPACT	REMOVE	NOTES
1	KP	<i>Koeleruteria paniculata</i>	goldenraintree	14"	60	60	5.04		26		
1	CA	<i>Cedrus atlantica 'glauca'</i>	blue atlas cedar	20"	70	60	8.84		11		
1	AF-1	<i>Acer x freemanii</i>	freeman maple	6.5"	80	60	3.12		37		
1	AF-2	<i>Acer x freemanii</i>	freeman maple	7"	80	60	3.36		38		
1	CL-1	<i>Cuprocyparis leylandii</i>	leyland cypress	5"	70	55	1.93		15		
2	CL-1	<i>Cuprocyparis leylandii</i>	leyland cypress	5"	70	55	1.93		1		
3	CL-1	<i>Cuprocyparis leylandii</i>	leyland cypress	5"	70	55	1.93		0		
4	CL-1	<i>Cuprocyparis leylandii</i>	leyland cypress	5"	70	55	1.93		0		
1	CL-2	<i>Cuprocyparis leylandii</i>	leyland cypress	7"	70	55	2.70	1		X	IN AT LEAST A 4-FOOT BED ALONG SIDEWALK
2	CL-2	<i>Cuprocyparis leylandii</i>	leyland cypress	7"	70	55	2.70	1		X	IN AT LEAST A 4-FOOT BED ALONG SIDEWALK
							<b>TOTAL REPLACEMENT TREES</b>	<b>2</b>			

QUANT	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	ROOT TYPE (CONTAINER)	NOTES
2	<i>Thuja plicata</i> 'Green Giant'	Green Giant arborvitae	8 FEET	B & B	SINGLE STEM, SINGLE LEADER. FULL TO GROUND, NO ENCIRCLING ROOTS

- NOTES:  
 1. CONTRACTOR SHALL CONTACT ARLINGTON COUNTY'S ARBORIST BEFORE PROCEEDING WITH PROPOSED LANDSCAPING WORK.  
 2. CONTRACTOR SHALL REMOVE EXISTING STUMPS OF EXISTING TREES AND PLANT PROPOSED TREES IN THE SAME LOCATION

**CALLOUT LEGEND**  
 SEE SHEET C8 AND C8A FOR DETAILS



© 2011 BMP Standards and Specifications © 2013 Draft BMP Standards and Specifications

Project Name: LEE HIGHWAY & N ADAMS STREET (VDOT ROW)
Date: 10/15/2020
Linear Development Project? Yes

CLEAR ALL (Ctrl+Shift+R)

data input cells
constant values
calculation cells
final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) -> 0.0551

Maximum reduction required: 20%
The site's net increase in impervious cover (acres) is: 0.0000
Post-Development TP Load Reduction for Site (lb/yr): 0.0218

Pre-Development Land Cover (acres)

Table with columns: A Soils, B Soils, C Soils, D Soils, Totals. Rows: Forest/Open Space, Managed Turf, Impervious Cover.

Post-Development Land Cover (acres)

Table with columns: A Soils, B Soils, C Soils, D Soils, Totals. Rows: Forest/Open Space, Managed Turf, Impervious Cover, Area Check.

Constants

Table with columns: Parameter, Value. Rows: Annual Rainfall, Target Rainfall, Total Phosphorus, Total Nitrogen, Target TP Load, Pj.

Runoff Coefficients (Rv)

Table with columns: A Soils, B Soils, C Soils, D Soils. Rows: Forest/Open Space, Managed Turf, Impervious Cover.

LAND COVER SUMMARY -- PRE-REDEVELOPMENT

Table with columns: Pre-Development, Listed, Adjusted. Rows: Forest/Open Space, Managed Turf, Impervious Cover, Total Site Area, Site Rv.

LAND COVER SUMMARY -- POST DEVELOPMENT

Table with columns: Final Post-Development, Post-ReDevelopment, Post-Development New Impervious. Rows: Forest/Open Space, Managed Turf, Impervious Cover, Total ReDev Site Area, Final Post Dev Site Rv.

Treatment Volume and Nutrient Load

Table with columns: Pre-Development, Final Post-Development. Rows: Treatment Volume (acre-ft), Treatment Volume (cubic feet), TP Load (lb/yr), TP Load per acre.

Treatment Volume and Nutrient Load

Table with columns: Final Post-Development, Post-ReDevelopment, Post-Development. Rows: Treatment Volume (acre-ft), Treatment Volume (cubic feet), TP Load (lb/yr), TP Load per acre, Max. Reduction Required, TP Load Reduction Required.

Adjusted Land Cover Summary: Pre-Development land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Adjusted total acreage is consistent with Post-Development acreage (minus acreage of new impervious cover).

Column I shows load reduction requirement for new impervious cover (based on new development load limit, 0.41 lbs/acre/year).

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr) 0.0218

Linear Project TP Load Reduction Required (lb/yr): 0.0218

Nitrogen Loads (Informational Purposes Only)

Table with columns: Pre-Development TN Load (lb/yr) 0.8038, Final Post-Development TN Load (Post-Development & New Impervious) (lb/yr) 0.7992

Site Information - Revised 9/19/2017

Table with columns: Project SWM #, LDA Permit #, Disturbed Area, % Impervious, % Pre-Impervious, % Post-Impervious, Pre-Development TP load, Post-Development TP load, TP load reduction achieved, Pre-Development TN load, Post-Development TN load, TN load reduction achieved, Total Site Area, Pre-Forest Area, Pre-Turf Area, Pre-Impervious Area, Post-Forest Area, Post-Turf Area, Post-Impervious Area, Pre-Runoff Volume, Post-Runoff Volume, Runoff Volume Reduction Achieved, Site Latitude, Site Longitude, Anticipated Start Date.

Department of Environmental Services
ARLINGTON COUNTY PERMIT SWPPP MINIMUM ACCEPTANCE CRITERIA (MAC) CHECKLIST

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

Checklist table with columns: Item, yes/n/a/no, sheet. Rows: 1. Completion of this Front Counter MAC Checklist... 2. Submit and sign the MAC Checklist... 3. Include a Cover Sheet... 4. Include an Existing Conditions Plan Sheet... 5. Include the following within the Plan... 6. Engineer's Seal/Signature...

Table with columns: Item, yes/n/a/no, sheet. Rows: 1. Include the Following on Erosion and Sediment Control Plan Sheets... 2. Sediment Control Checklist... 3. Landscape Conservation Plan...

Table with columns: Item, yes/n/a/no, sheet. Rows: 1. Include the following on Stormwater Management Plan Sheets... 2. Design details and reference of stormwater facilities... 3. Facility detail, maintenance schedule... 4. Drainage area boundary and runoff flow arrows... 5. Water Quantity Energy Balance Worksheet... 6. Meet requirement for sheetflow and statement of no adverse impact...

Table with columns: Item, yes/n/a/no, sheet. Rows: 1. Include the following on Stormwater Management Plan Sheets... 2. Design details and reference of stormwater facilities... 3. Facility detail, maintenance schedule... 4. Drainage area boundary and runoff flow arrows... 5. Water Quantity Energy Balance Worksheet... 6. Meet requirement for sheetflow and statement of no adverse impact...

Table with columns: Item, yes/n/a/no, sheet. Rows: j. Indicate Resource Protection Area (RPA) boundary... k. Blank Stormwater Facility Maintenance and Monitoring Agreement... l. SWMH on the coversheet... m. For 4.1 site plans and use permits...

Table with columns: Item, yes/n/a/no, sheet. Rows: 1. Include the following on the Pollution Prevention Plan... a. Standard notes from Stormwater Manual... b. Pollution Prevention Practices...

Table with columns: Item, yes/n/a/no, sheet. Rows: a. For a new development with a new building... b. The location of the existing and proposed meter/service...

Table with columns: Item, yes/n/a/no, sheet. Rows: c. if the water service and meter are relocated... d. the location of the new meter shall be staked out...

Table with columns: Item, yes/n/a/no, sheet. Rows: Attachments (one 8.5"x11" hard copy stapled to the SWPPP plan)... a. Registration Statement... b. Stormwater Management Facility and Site Data Spreadsheet... c. Stormwater Prevention Plan (P2) Template... d. Planning & Field Guide...

I certify that the above is true and accurate to the best of my knowledge.
Signature:
Date: 10/15/2020

Exhibit A
CBAY-VA LLC - COLES POINT
AFFIDAVIT OF PHOSPHORUS CREDIT SALE
CBAY-VA LLC, a Virginia limited liability company (the "Company"), hereby certifies the following:
1. Pursuant to that certain Purchase Order dated August 5, 2021...
2. The Company and the Purchaser, as of the date hereof, have closed the transaction...
Witness the following signature:
CBAY-VA LLC, a Virginia limited liability company
By: Caitlan B. Parker, Authorized Signatory
Date: August 10, 2021
Sworn to and subscribed before me this 10th day of August, 2021, by Caitlan B. Parker, Authorized Signatory, on behalf of CBAY-VA LLC, a Virginia limited liability company.
Notary registration number: My commission expires: 07/02/2030
Notary Public
Permit #: Pending
Project Description: Lee Highway & North Adams Street Intersection, Arlington County, VA
Permittee: ARLINGTON COUNTY VIRGINIA
Phosphorus Credits: 0.03 pounds
Associated Nitrogen Credits: 0.47 pounds
CBAY-VA LLC
Coles Point Purchase and Sale Agreement 1



DEPARTMENT OF ENVIRONMENTAL SERVICES
TRANSPORTATION DIVISION
OPERATION BUREAU
2100 CLARENDON BOULEVARD, SUITE 900
ARLINGTON, VA 22201
PHONE: 703.228.3344
FAX: 703.228.3719



APPROVALS DATE
John Yessum 1/31/2022
TRAFFIC SIGNAL ENGINEER
Paul Rube 03/18/2022
TRAFFIC ENGINEERING MANAGER
02.18.2022
WATER, SEWER, STREETS BUREAU CHIEF
03/18/2022
T&O BUREAU CHIEF
Donnie M. Leach 03/21/22
TRANSPORTATION DIRECTOR

REVISIONS DATE

PROJECT NAME AND LOCATION
LEE HIGHWAY & NORTH ADAMS STREET
POLLUTION PREVENTION PLAN I
INTERSECTION SIGNAL IMPROVEMENT TR07

DESIGNED: BW/BW
DRAWN: BW/BW
CHECKED: JM/DN
MISS UTILITY TRANSMITTAL #: N/A
FILENAME: TR07 - N ADAMS P2 & SWPPP.DWG
PATH: \\DATA\PROJECTS\LEE HIGHWAY, ADAMS ST\DRAWINGS\
PLOTTED: OCTOBER 7 2021
PLOTTED BY: BWU

SCALE NOT TO SCALE

SHEET C11 OF C23

2011 BMP Standards and Specifications | 2013 Draft BMP Standards and Specifications

Project Name: **LEE HIGHWAY & N ADAMS STREET (Arlington County ROW)**  
 Date: **10/15/2020**  
 Linear Development Project? **Yes**

**CLEAR ALL**  
(Ctrl+Shift+R)

data input cells  
 constant values  
 calculation cells  
 final results

**Site Information**

**Post-Development Project (Treatment Volume and Loads)**

Enter Total Disturbed Area (acres) → **0.0203**

Maximum reduction required: **20%**  
 The site's net increase in impervious cover (acres) is: **0.0000**  
 Post-Development TP Load Reduction for Site (lb/yr): **0.0054**

Check:  
 BMP Design Specifications List: 2013 Draft Stds & Specs  
 Linear project? **Yes**  
 Land cover areas entered correctly? **✓**  
 Total disturbed area entered? **✓**

Pre-ReDevelopment Land Cover (acres)					
	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed forest/open space					0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be				0.0010	0.0010
Impervious Cover (acres)				0.0193	0.0193
					0.0203

Post-Development Land Cover (acres)					
	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested					0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be				0.0029	0.0029
Impervious Cover (acres)				0.0174	0.0174
<b>Area Check</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>0.0203</b>

Constants	
Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.25
Total Nitrogen (TN) EMC (mg/L)	1.85
Target TP Load (lb/acre/yr)	0.41
P (unitless correction factor)	0.90

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

LAND COVER SUMMARY -- PRE-REDEVELOPMENT		
Land Cover Summary-Pre		
Pre-ReDevelopment	Listed	Adjusted <sup>1</sup>
Forest/Open Space Cover (acres)	0.0000	0.0000
Weighted Rv(forest)	0.0000	0.0000
% Forest	0%	0%
Managed Turf Cover (acres)	0.0010	0.0010
Weighted Rv(turf)	0.2500	0.2500
% Managed Turf	5%	5%
Impervious Cover (acres)	0.0193	0.0193
Rv(impervious)	0.9500	0.9500
% Impervious	95%	95%
<b>Total Site Area (acres)</b>	<b>0.0203</b>	<b>0.0203</b>
<b>Site Rv</b>	<b>0.9155</b>	<b>0.9155</b>

LAND COVER SUMMARY -- POST DEVELOPMENT			
Land Cover Summary-Post (Final)		Land Cover Summary-Post	
Post-Development	Post-Development & New Impervious	Post-Development	Post-Development New Impervious
Forest/Open Space Cover (acres)	0.0000	Forest/Open Space Cover (acres)	0.0000
Weighted Rv(forest)	0.0000	Weighted Rv(forest)	0.0000
% Forest	0%	% Forest	0%
Managed Turf Cover (acres)	0.0029	Managed Turf Cover (acres)	0.0029
Weighted Rv (turf)	0.2500	Weighted Rv (turf)	0.2500
% Managed Turf	14%	% Managed Turf	14%
Impervious Cover (acres)	0.0174	ReDev. Impervious Cover (acres)	0.0174
Rv(impervious)	0.9500	Rv(impervious)	0.9500
% Impervious	86%	% Impervious	86%
<b>Final Site Area (acres)</b>	<b>0.0203</b>	<b>Total ReDev. Site Area (acres)</b>	<b>0.0203</b>
<b>Final Post Dev Site Rv</b>	<b>0.8500</b>	<b>ReDev Site Rv</b>	<b>0.8500</b>

Treatment Volume and Nutrient Load		
Pre-ReDevelopment Treatment Volume (acre-ft)	0.0015	0.0015
Pre-ReDevelopment Treatment Volume (cubic feet)	67.4636	67.4636
Pre-ReDevelopment TP Load (lb/yr)	0.0424	0.0424
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	2.0900	2.0900
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		0.0083

Treatment Volume and Nutrient Load			
Final Post-Development Treatment Volume (acre-ft)	0.0014	Post-ReDevelopment Treatment Volume (acre-ft)	0.0014
Final Post-Development Treatment Volume (cubic feet)	62.6357	Post-ReDevelopment Treatment Volume (cubic feet)	62.6357
Final Post-Development TP Load (lb/yr)	0.0394	Post-ReDevelopment TP Load (lb/yr)*	0.0394
Final Post-Development TP Load per acre (lb/acre/yr)	1.9400	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.9400
		Max. Reduction Required (Below Pre-Development Load)	20%
		TP Load Reduction Required for Redeveloped Area (lb/yr)	0.0054
		TP Load Reduction Required for New Impervious Area (lb/yr)	0

<sup>1</sup> Adjusted Land Cover Summary:  
 Pre-ReDevelopment land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.  
 Adjusted total acreage is consistent with Post-ReDevelopment acreage (minus acreage of new impervious cover).  
 Column 1 shows load reduction requirement for new impervious cover (based on new development load limit, 0.41 lbs/acre/year).

Post-Development Requirement for Site Area	
TP Load Reduction Required (lb/yr)	<b>0.0054</b>
Linear Project TP Load Reduction Required (lb/yr):	0.0054

Nitrogen Loads (Informational Purposes Only)			
Pre-ReDevelopment TN Load (lb/yr)	0.3032	Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	0.2815

Site Information - Revised 9/19/2017																							
Project SWM #	LDA Permit #	Disturbed Area (acres)	% Impervious	% Post-Impervious	Pre-Development TP load (lb/yr)	Post-Development TP load (lb/yr)	TP load reduction achieved (lb/yr)	Pre-Development TN load (lb/yr)	Post-Development TN load (lb/yr)	TN load reduction achieved (lb/yr)	Total Site Area (acres)	Pre-Forest Area (acres)	Pre-Turf Area (acres)	Pre-Impervious Area (acres)	Post-Forest Area (acres)	Post-Turf Area (acres)	Post-Impervious Area (acres)	Pre-Runoff Volume	Post-Runoff Volume	Runoff Volume Reduction Achieved	Site Latitude (Decimal Degrees)	Site Longitude (Decimal Degrees)	Anticipated Start Date
22-0233	22-00073	0.0203	95.1	85.7	0.04	0.04	--	0.30	0.28	0.00	0.0203	0.0000	0.0010	0.0193	0.0000	0.0029	0.0174	67.4636	62.6357	0.0000	38.895379	77.088865	10/15/2020

9/1/2022  
 date

Qianqian Li, P.E.  
 ESC Program Administrator  
 Department of Environmental Services  
 2100 Clarendon Boulevard, Suite 813  
 Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:  
**LEE HIGHWAY & N ADAMS ST INTERSECTION**  
 street address

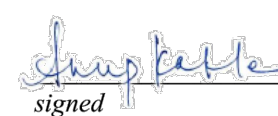
lot, block, section subdivision  
**LDA22-00073**  
 permit number

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
4. Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
5. Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
6. Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
7. Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at **703-228-7050** with questions about this plan or my execution of the duties of Responsible Land Disturber.  
 telephone number

Sincerely,  
  
 signed  
**Anup Kafle**  
 name printed  
**PE and 0402056432**  
 professional registration (type and number)

**NOTES**

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

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

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

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



DEPARTMENT OF ENVIRONMENTAL SERVICES  
 TRANSPORTATION DIVISION  
 TRANSPORTATION ENGINEERING & OPERATION BUREAU  
 2100 CLARENDON BOULEVARD, SUITE 900  
 ARLINGTON, VA 22201  
 PHONE: 703.228.3344  
 FAX: 703.228.3719



APPROVALS	DATE
DESIGN TEAM SUPERVISOR	
PROJECT MANAGER	
WATER, SEWER, STREETS BUREAU CHIEF	
TE&O BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

REVISIONS	DATE
Update for LDA Requirements	8/11/2023

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
**POLLUTION PREVENTION PLAN IA**  
**INTERSECTION SIGNAL IMPROVEMENT TR07**

DESIGNED: BVBW  
 DRAWN: BW BW  
 CHECKED: JM DN  
 MISS UTILITY TRANSMITTAL #: N/A  
 FILENAME: TR07 - N ADAMS P2 & SWPPP.DWG  
 PATH: \\DATA\TRAFFIC\DATA\LEE HIGHWAY, ADAMS ST\DRAWINGS\NETS\TR07.DWG  
 PLOTTED: JULY 5 2023  
 PLOTTED BY: JMCARTHAY

SCALE NOT TO SCALE

SHEET **C11AOF C23**

STORMWATER POLLUTION PREVENTION PLAN

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

For Construction Activities At:

Lee Highway & N Adams St  
Intersection  
Arlington, VA, 22201  
Latitude: 38.895379 N (decimal degrees)  
Longitude: -77.088865 W (decimal degrees)

Construction Activity Operator:

Company/Organization Name: TBD

24-hour Emergency Contact: Sarah Saleem  
Telephone Number: 703-225-3402

SWPPP Preparation Date:

October 2, 2020

CERTIFICATION

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

Operator Name: Bi Wu for Arlington County Government

Title: Design Engineer, Department of Environmental Service

Signature: \_\_\_\_\_

Date: 10/02/2020

STORMWATER POLLUTION PREVENTION PLAN

1.0 SWPPP Documents Located Onsite & Available for Review

Table with columns: SWPPP Document Type, Located Onsite & Available for Review? (Yes/No/NA)

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

2.0 Authorized Non-Stormwater Discharges

Table with columns: Type of Authorized Non-Stormwater Discharges, Likely Present at Your Project Site? (Yes/No)

3.0 Pollution Prevention Awareness

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

4.0 Erosion & Sediment Controls

Table with columns: Select all that apply, Erosion & Sediment Control, Estimated Installation Date, Estimated Removal Date, Responsible Party

Table with columns: (Std. & Spec. 3.08 and/or Arlington County Std. & Spec. from approved ESC plan), Estimated Installation Date, Estimated Removal Date, Responsible Party

Pre-Storm Erosion and Sediment Control Checklist

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

- Perimeter controls (silt fence, hay bales, stone berms) used to prevent sediment from leaving the site shall be checked for undermining, holes, or deterioration and repaired/replaced if needed.
- Sediment that has accumulated against perimeter controls shall be removed if the depth exceeds more than 1/2 of the silt fence height.
- Exposed soil or slopes shall be covered with straw, tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain.
- Inlet protection controls shall be inspected to ensure they are installed per approved ESC plan, are functioning properly, and maintained as needed.

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Table with columns: Pollutant-Generating Activity, Likely Present at Your Project Site?, Sediment, Nutrients, Heavy Metals, Pesticides & Herbicides, Oil & Grease, Bacteria & Viruses, Trash, Debris, Solids, Other Toxic Chemicals, Pollution Prevention Practice, Responsible Party

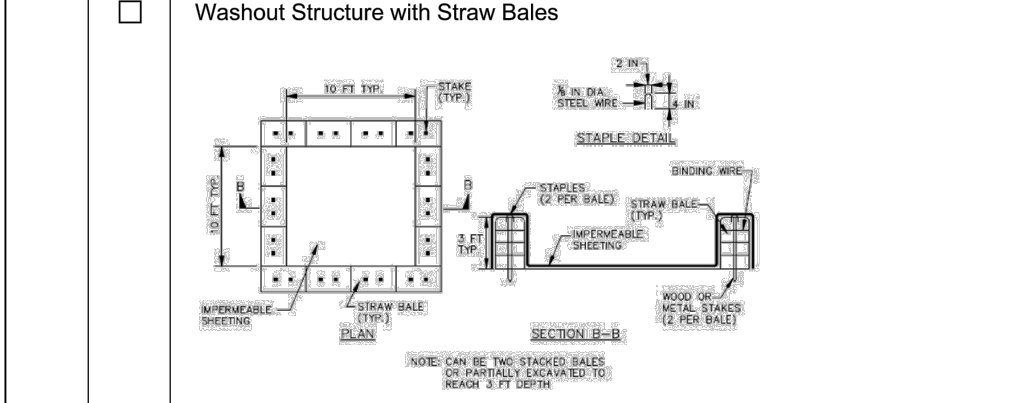
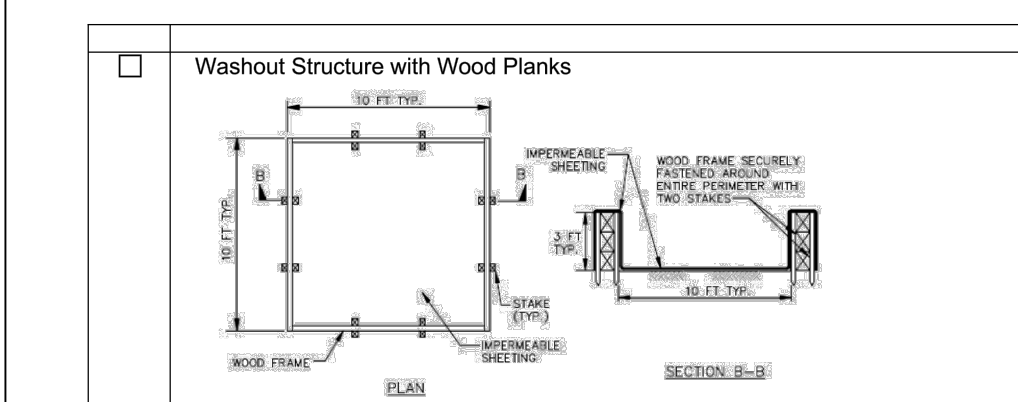
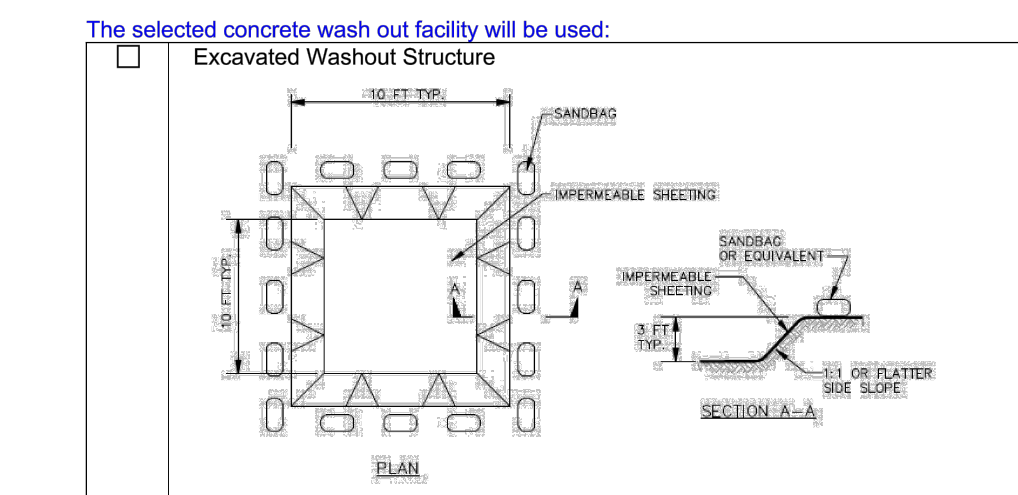
Pollution Prevention Practices:

- (1) Clearing, grading, excavating, and un-stabilized areas - Maintain as much existing vegetation as practicable. Utilize erosion and sediment controls to prevent sediment from leaving the construction site.
- (2) Paving and saw cutting operations - Cover storm drain inlets during paving and saw cutting operations.

Temporary controls (i.e. tarp and block, sand berms, booms, and/or filter fabric) shall be used to cover storm drains during paving and saw cutting operations to prevent any discharges from entering the storm drain.

- Method of covering / protecting storm drains.
- Method for containment, collection, disposal of saw cut slurry.

- (3) Concrete operations, washout, and cement waste - Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation.



- Prefabricated Containment System Type: \_\_\_\_\_
- Other: \_\_\_\_\_

- (4) Washing / cleaning - Prevent the discharge of wash water to the storm drain system or surface waters.
- (5) Dewatering operations - Construction site dewatering may not be discharged without treatment.

- Method of covering / protecting storm drains.
- Method for containment, collection, disposal of saw cut slurry.

- Portable Sediment Tank
- Filler Bag
- Pump from Settling Pit
- Manufactured System: \_\_\_\_\_
- Other: \_\_\_\_\_

- Material / chemical use and storage - Designate areas of the construction site for material delivery and storage.
- Method used to ensure flow through: \_\_\_\_\_

- Equipment and vehicle maintenance - Use a designated area, away from storm drains and surface waters, to refuel vehicle or equipment or perform maintenance.
- Regularly inspect vehicles and equipment for leaks.

- Waste management / disposal - Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway.
- A sufficient number of waste containers must be kept on a site to handle the quantity of waste produced.

- Sanitary waste - Prevent the discharge of sanitary waste by providing convenient and well-maintained portable facilities.
- Locate portable lavatories away from storm drains and surface waters.

- Nutrient management - Apply nutrients in accordance with manufacturer's recommendations. Do not apply during rainfall events or windy conditions.
- Additional information and details can be found in the Arlington County Planning & Field Guide for Pollution Prevention (P2).

Additional information and details can be found in the Arlington County Planning & Field Guide for Pollution Prevention (P2).

6.0 Stormwater Management Controls

Table with columns: Select all that apply, Stormwater Management Control, Estimated Installation Date, Responsible Party

In accordance with Arlington County's Chesapeake Bay Total Maximum Daily Load (TMDL) Action Plan, approved by the Virginia Department of Environmental Quality (DEQ) on September 1, 2015, linear development projects conducted by the County are administered and tracked as follows consistent with SVAC25-870-89 A, 4, SVAC25-870-76, and SVAC25-870-82:

- Retrofit opportunities will be evaluated for each project, using the screening and selection criteria applied and described in the adopted Stormwater Master Plan.
- Retrofit projects that meet the screening criteria and are determined by Arlington to be feasible and cost-effective will be implemented with specific linear development projects.

In the above manner Arlington, as the MS4 operator and the construction site operator for its linear development projects, implements linear projects and retrofit projects in a manner that achieves the most TMDL POC reduction for the least cost, while fully accounting for load changes that occur with linear development project activity consistent with the DEQ Chesapeake Bay TMDL Special Condition Guidance.

Table with columns: Stormwater Management Control, Estimated Installation Date, Responsible Party

- Spill Prevention & Response
- Most spills can be cleaned up using a spill kit.
- Check for hazards (flammable material, noxious fumes, cause of spill) - If flammable liquid, turn off engines and nearby electrical equipment.

Spill kit on site:  Yes  No  
Location(s) of spill kit: \_\_\_\_\_

- Emergency Contacts
- Local Contacts
- Nights, Holidays & Weekends

Spill kit on site:  Yes  No  
Location(s) of spill kit: \_\_\_\_\_

ARLINGTON VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
OPERATION BUREAU

SEAL  
COMMONWEALTH OF VIRGINIA  
BI FENG WU  
Lic. No. 047585  
10/01/2020  
PROFESSIONAL ENGINEER

APPROVALS DATE  
TRAFFIC SIGNAL ENGINEER 1/31/2022  
TRAFFIC ENGINEERING MANAGER 03/18/2022  
WATER, SEWER, STREETS BUREAU CHIEF 02.18.2022  
TE&O BUREAU CHIEF 03/18/2022  
TRANSPORTATION DIRECTOR 03/21/22

REVISIONS DATE

PROJECT NAME AND LOCATION  
LEE HIGHWAY & NORTH ADAMS STREET  
POLLUTION PREVENTION PLAN II  
INTERSECTION SIGNAL IMPROVEMENT TR07

DESIGNED: BW/BW  
DRAWN: BW/BW  
CHECKED: JM/DN  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS P2 & SWPPP.DWG  
PATH: \\DATA\TRAF\CDATA\LEE HIGHWAY, ADAMS ST\DRAWING\DR007SHEETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

SCALE NOT TO SCALE

SHEET  
C12 OF C23

SEAL



APPROVALS DATE

<i>John Watson</i>	1/31/2022
TRAFFIC SIGNAL ENGINEER	
<i>John Nicks</i>	03/18/2022
TRAFFIC ENGINEERING MANAGER	
<i>Glenn</i>	02.18.2022
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Tom</i>	03/18/2022
TE&O BUREAU CHIEF	
<i>Dennis W. Leach</i>	03/21/22
TRANSPORTATION DIRECTOR	

REVISIONS DATE

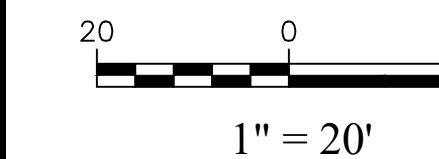
REVISIONS	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
DEMOLITION PLAN  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

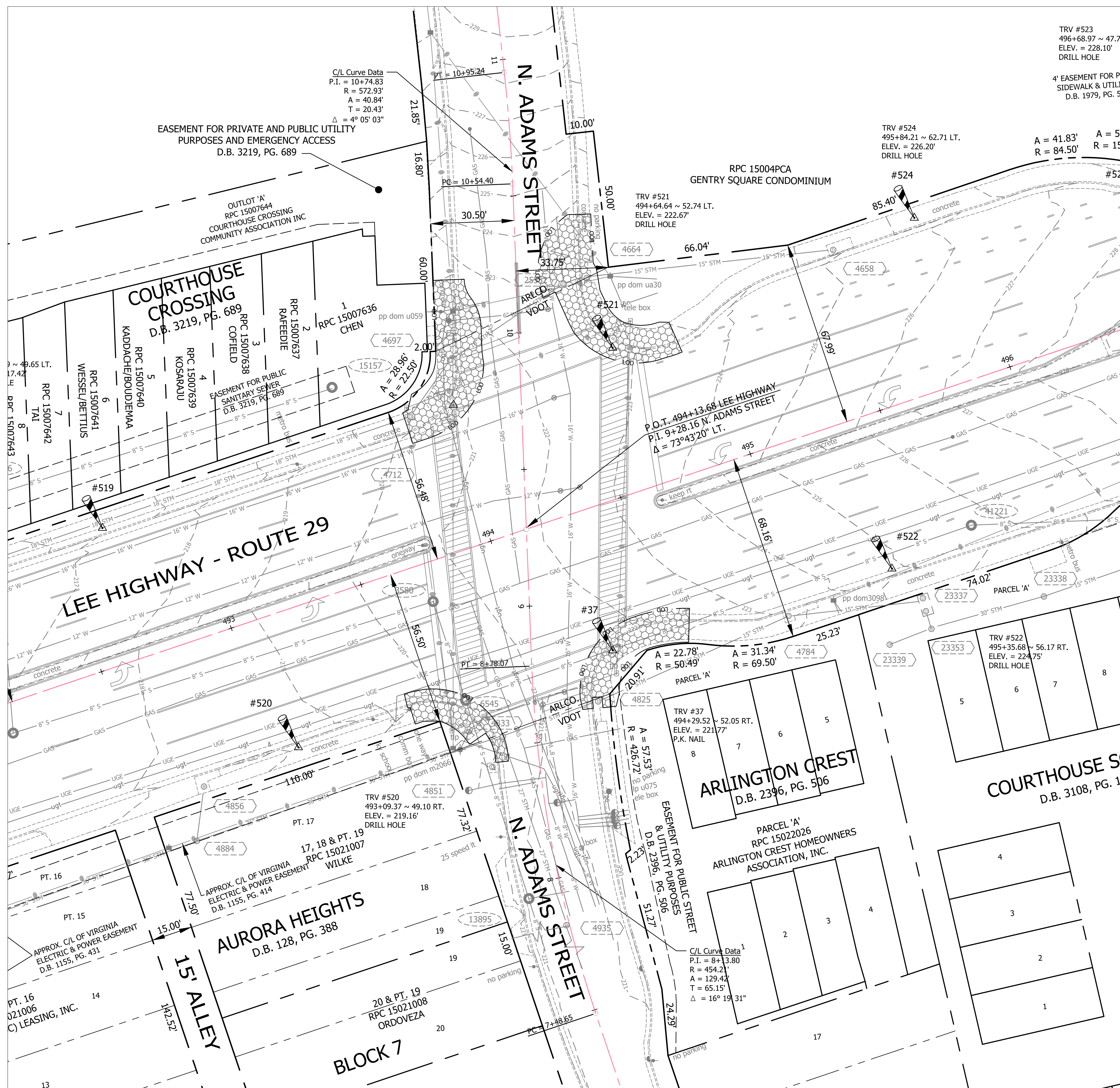
DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS DEMOLITION & ROP PL  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY, ADAMS ST\DRAWING\DSHEETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

SCALE 1" = 20'



SHEET  
**C13 OF C23**





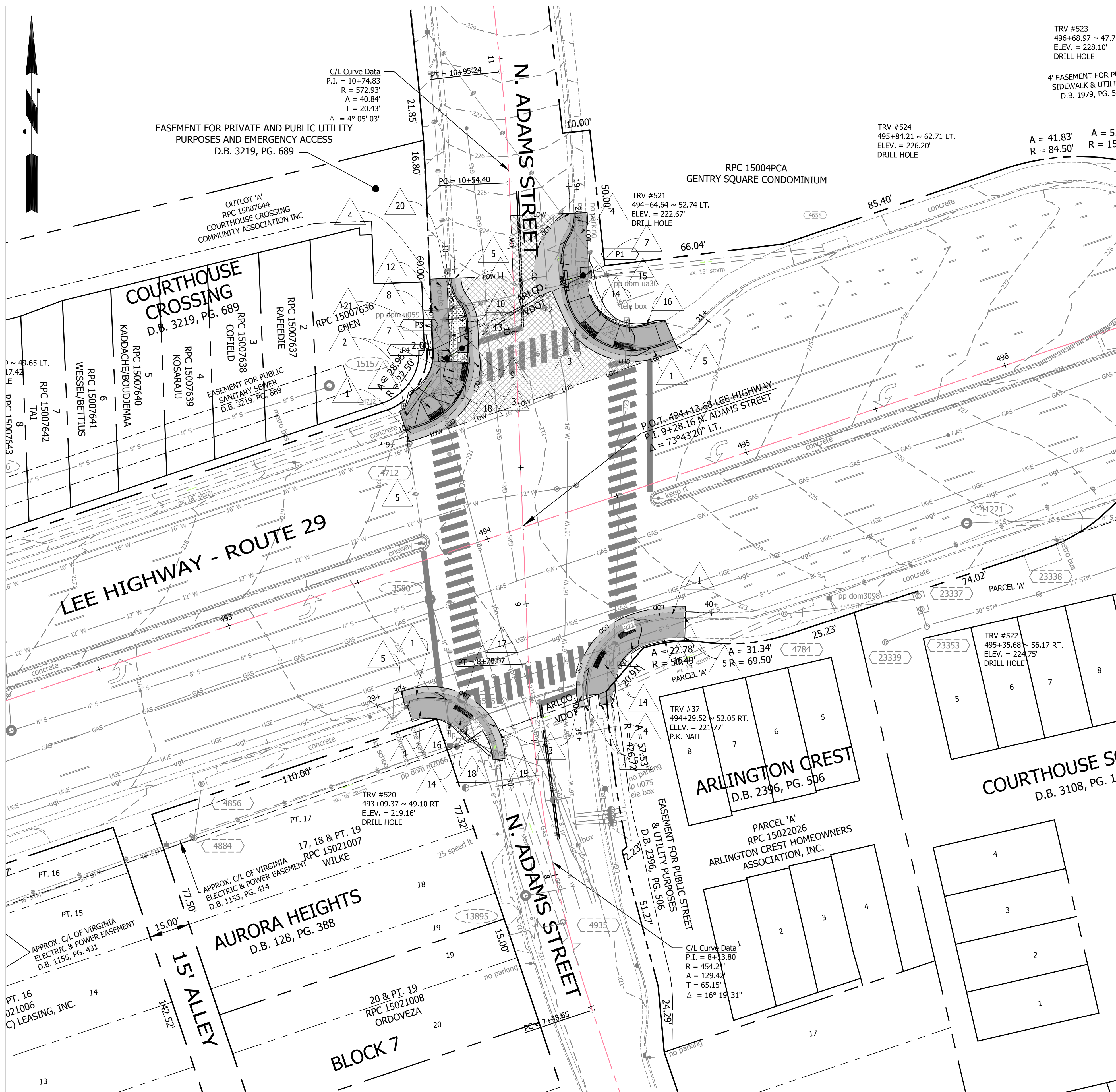
**CONSTRUCTION NOTES**

- 1 PROP. CURB AND GUTTER (CG-6), VDOT 2016 ROAD & BRIDGE STD. 201.03
- 2 PROP. CURB RAMP (CG-12A), VDOT 2016 ROAD & BRIDGE STD. 203.06
- 3 PROP. TRANSITION TO ARLINGTON CURB AND GUTTER (C-2), ARLINGTON COUNTY STD. R-2.0
- 4 PROP. CONCRETE SIDEWALK (S-5.0) WIDTH VARIES, ARLINGTON COUNTY STD. R-2.0
- 5 MATCH EXISTING GRADE
- 6 ADJUST EXISTING STORM MANHOLE TOP TO NEW GRADE
- 7 CONVERT EXISTING CATCH BASIN TO MANHOLE (MH-1), VDOT 2016 ROAD & BRIDGE STD. 106.01
- 8 EXISTING 18" CONCRETE PIPE TO REMAIN
- 9 INSTALL CURB INLET (DI-3B), VDOT 2016 ROAD & BRIDGE STD. 104.09
- 10 RELOCATE EXISTING FIRE HYDRANT TO NEW CURB LOCATION
- 11 EXISTING UTILITY POLE TO REMAIN (ADJUST PROP CONCRETE SIDEWALK AROUND THE POLE AS NECESSARY)
- 12 ADJUST EXISTING GAS VALVE TO NEW GRADE
- 13 EXISTING WIRE GUYS TO REMAIN
- 14 PROP. CURB RAMP (CG-12B), VDOT 2016 ROAD & BRIDGE STD. 203.07
- 15 CONVERT EXISTING MANHOLE TOP TO CURB DROP INLET (DI-2C), VDOT 2016 ROAD & BRIDGE STD. 104.03
- 16 PROP. HEADER CURB (C-3), ARLINGTON COUNTY STD. R-2.0)
- 17 ADJUST EXISTING SANITARY MANHOLE TOP TO NEW GRADE
- 18 ADJUST EXISTING WATER VALVE TO NEW GRADE
- 19 ADJUST EXISTING STORM MANHOLE TOP TO NEW GRADE
- 20 PROP GRASS AREA
- 21 COORDINATE WITH PROPERTY OWNER FOR LEAD WALK ADJUSTMENT FOR NEW GRADE TIE-IN AS NECESSARY

Structure #	Proposed Storm Tabulation Data
P1	CONVERT EX. CURB INLET STRUCTURE 4664 TO MANHOLE STRUCTURE Std. MH-1 (CAST IN PLACE Req.), H = 5.4' TOP = 222.85 INV. IN = 217.51 (15") FROM EX 4658 INV. OUT = 217.45 (18") TO P2 Std. IS-1 Req.
P2	CONVERT EX MANHOLE STRUCTURE 25552 TO COMBINATION INLET STRUCTURE Std. DI-2C (CAST IN PLACE Req.), L=6', H=5.15' TOP = 222.27 INV. IN = 217.32 (18") FROM P1 INV. IN = 217.78 (15") FROM EX 25553 INV. OUT = 217.12 (18") TO P3 Std. IS-1 Req.
P3	PROP. CURB INLET STRUCTURE Std. DI-3B (CAST IN PLACE, DOGHOUSE BASE OVER EX. PIPE Req.) L=8', H=5.05' TOP = 221.92 INV. IN = 216.87 (18") FROM P2 INV. OUT = 216.87 (18") TO P4 Std. IS-1 Req.
P4	CONVERT EX CURB INLET STRUCTURE 4697 TO MANHOLE STRUCTURE Std. MH-1 (CAST IN PLACE Req.), H=5.22' TOP = 221.89 INV. IN = 216.83 (18") FROM P3 INV. OUT = 216.67 (18") TO EX 4712 Std. IS-1 Req.

**STORM NOTES:**

1. ALL STRUCTURES BEING MODIFIED TO MANHOLE TOPS SHALL HAVE VDOT MANHOLE FRAME AND COVER PER 2016 ROAD AND BRIDGE STANDARDS, DETAIL 106.06.
2. ALL PROPOSED STRUCTURES SHALL HAVE INLET SHAPING PER VDOT 2016 ROAD AND BRIDGE STANDARDS, DETAIL 106.08.
3. THE CONTRACTOR SHALL PERFORM POST INSTALLATION VISUAL VIDEO CAMERA INSPECTION PER ARLINGTON COUNTY SPECIFICATIONS AND VDOT 2016 ROAD AND BRIDGE SPECIFICATIONS.



TRV #523  
496+68.97 ~ 47.73 LT.  
ELEV. = 228.10'  
DRILL HOLE

4' EASEMENT FOR PUB  
SIDEWALK & UTILITI  
D.B. 1979, PG. 504

TRV #524  
495+84.21 ~ 62.71 LT.  
ELEV. = 226.20'  
DRILL HOLE

A = 41.83' A = 5.6'  
R = 84.50' R = 15.5'



**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
TRANSPORTATION ENGINEERING & OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719

COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

**SEAL**



**APPROVALS DATE**

<i>John Yastrom</i>	1/31/2022
TRAFFIC SIGNAL ENGINEER	
<i>John Nicks</i>	03/18/2022
TRAFFIC ENGINEERING MANAGER	
<i>John</i>	02.18.2022
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John</i>	03/18/2022
TE&O BUREAU CHIEF	
<i>Dennis W. Leach</i>	03/21/22
TRANSPORTATION DIRECTOR	

**REVISIONS DATE**

REVISIONS	DATE

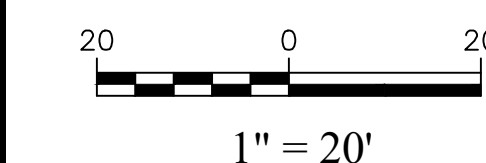
**PROJECT NAME AND LOCATION**  
LEE HIGHWAY & NORTH ADAMS STREET

**PROPOSED CONDITIONS**  
INTERSECTION SIGNAL IMPROVEMENT TR07

DESIGNED: BW  
DRAWN: JM  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS DEMOLITION & ROP PL  
PATH: Q:\DATA\TRAFFIC SIGNALS\LEE HIGHWAY, ADAMS ST\DRAWING\DRSHEETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

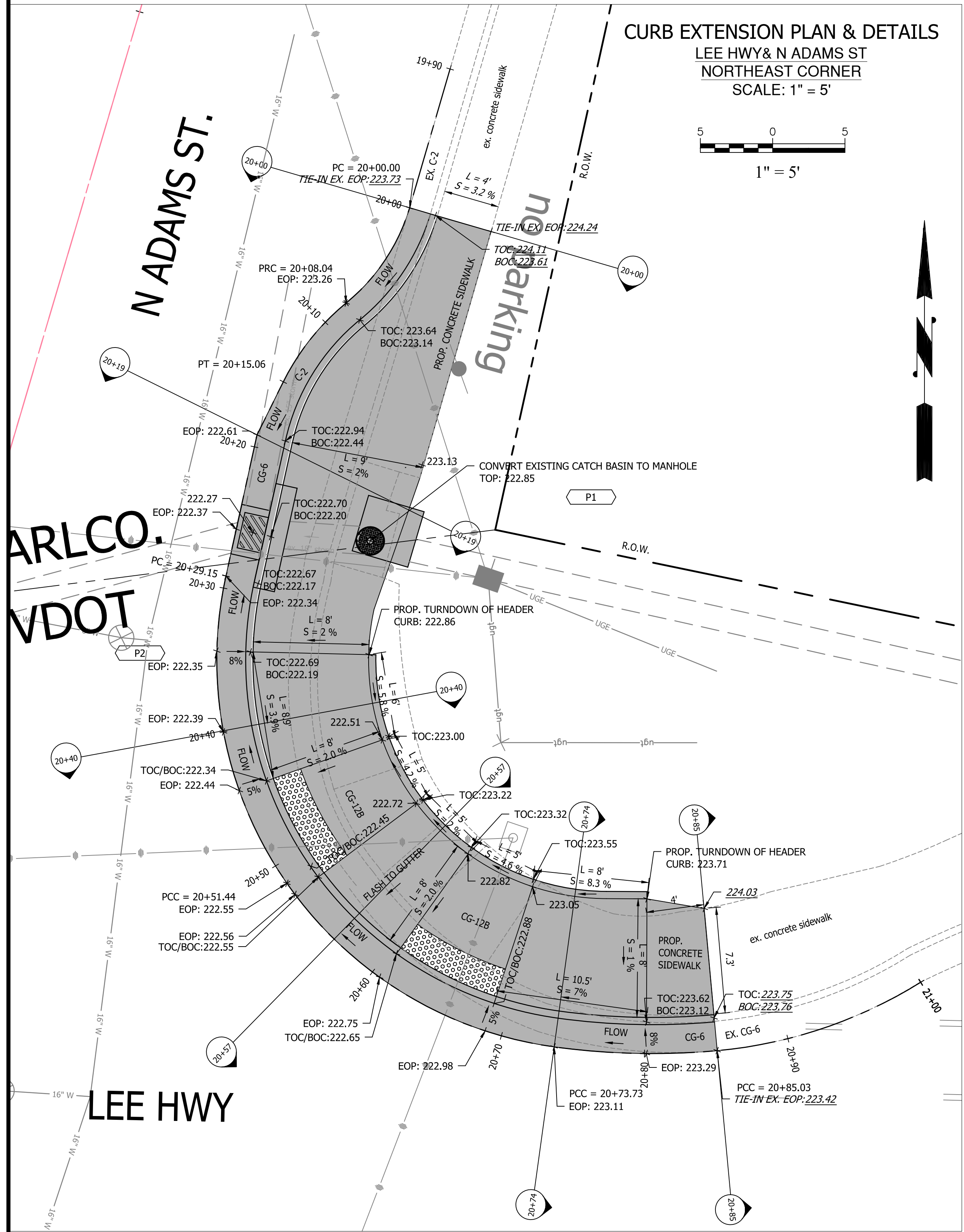
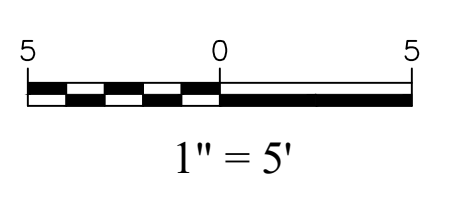
SCALE 1" = 20'



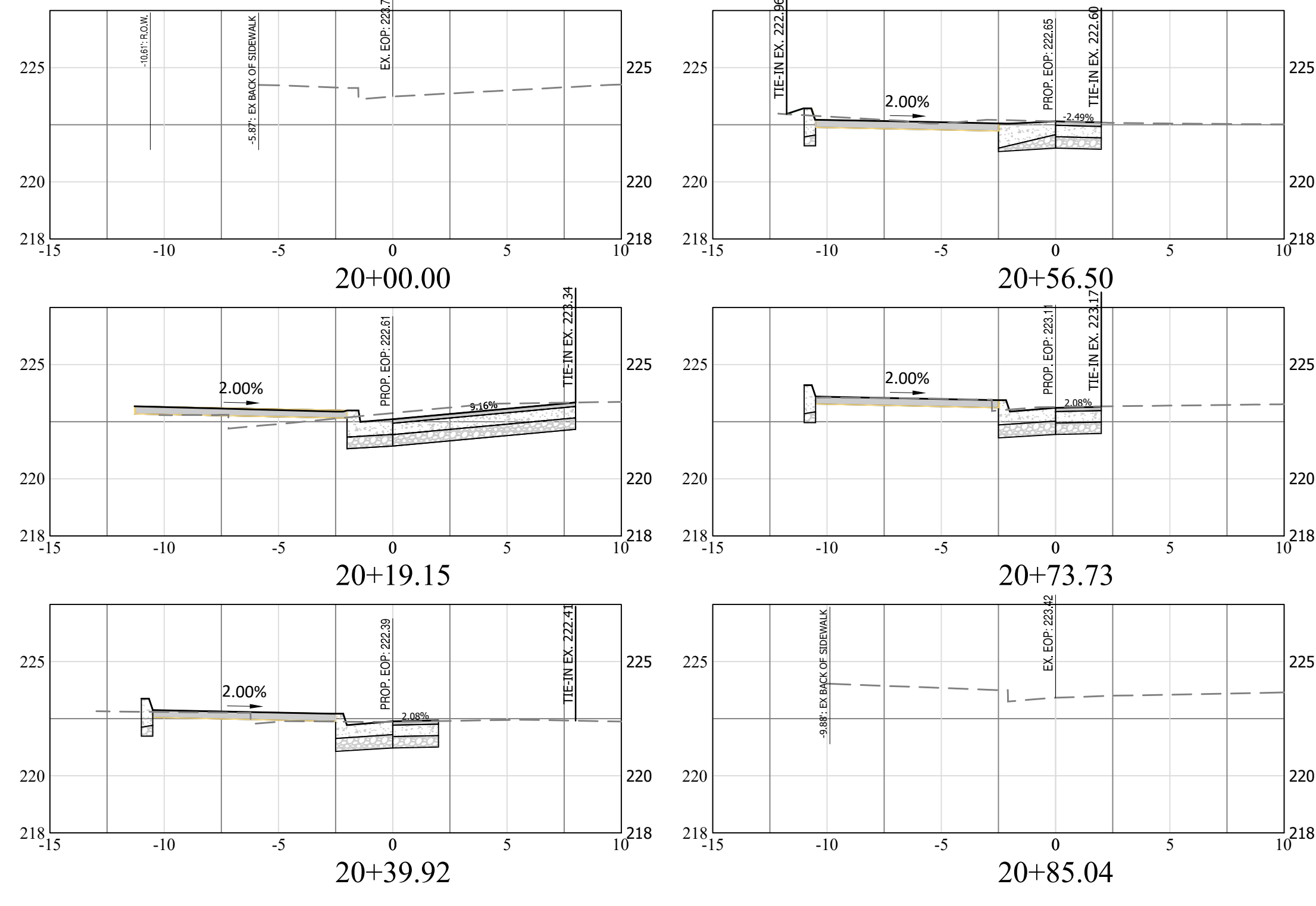
SHEET  
**C14 OF C23**

**LEGEND:**  
 XXX.XX: INDICATES EXISTING ELEVATION  
 xxx.xx: INDICATES PROPOSED ELEVATION

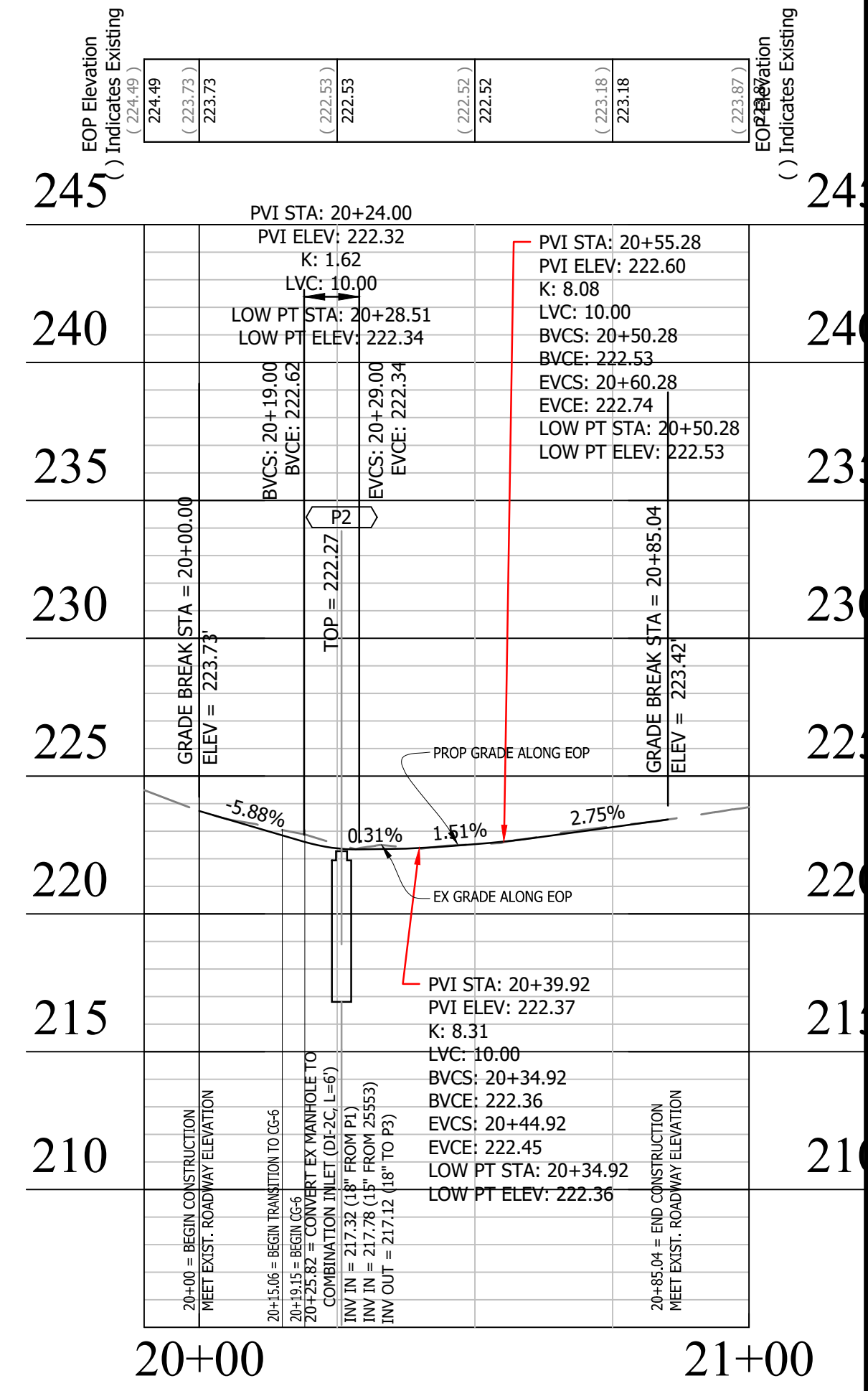
**CURB EXTENSION PLAN & DETAILS**  
 LEE HWY & N ADAMS ST  
 NORTHEAST CORNER  
 SCALE: 1" = 5'



**CURB EXTENSION CROSS SECTIONS**  
 LEE HWY & N ADAMS ST  
 NORTHEAST CORNER  
 SCALE: 1" = 5' (H)  
 1" = 1' (V)



**CURB EXTENSION PROFILE**  
 LEE HWY & N ADAMS ST  
 NORTHEAST CORNER  
 SCALE: 1" = 25' (H)  
 1" = 5' (V)



DEPARTMENT OF ENVIRONMENTAL SERVICES  
 TRANSPORTATION DIVISION  
 TRANSPORTATION ENGINEERING & OPERATION BUREAU  
 2100 CLARENDON BOULEVARD, SUITE 900  
 ARLINGTON, VA 22201  
 PHONE: 703.228.3344  
 FAX: 703.228.3719



**APPROVALS**      **DATE**

*John Yastrom*      1/31/2022  
 TRAFFIC SIGNAL ENGINEER

*John Nicks*      03/18/2022  
 TRAFFIC ENGINEERING MANAGER

*John Nicks*      02.18.2022  
 WATER, SEWER, STREETS BUREAU CHIEF

*John Nicks*      03/18/2022  
 T&O BUREAU CHIEF

*Dennis W. Leach*      03/21/22  
 TRANSPORTATION DIRECTOR

REVISIONS	DATE

**PROJECT NAME AND LOCATION**  
 LEE HIGHWAY & NORTH ADAMS STREET  
 CURB EXTENSION DETAILS - NORTHEAST QUADRANT INTERSECTION SIGNAL IMPROVEMENT TR07

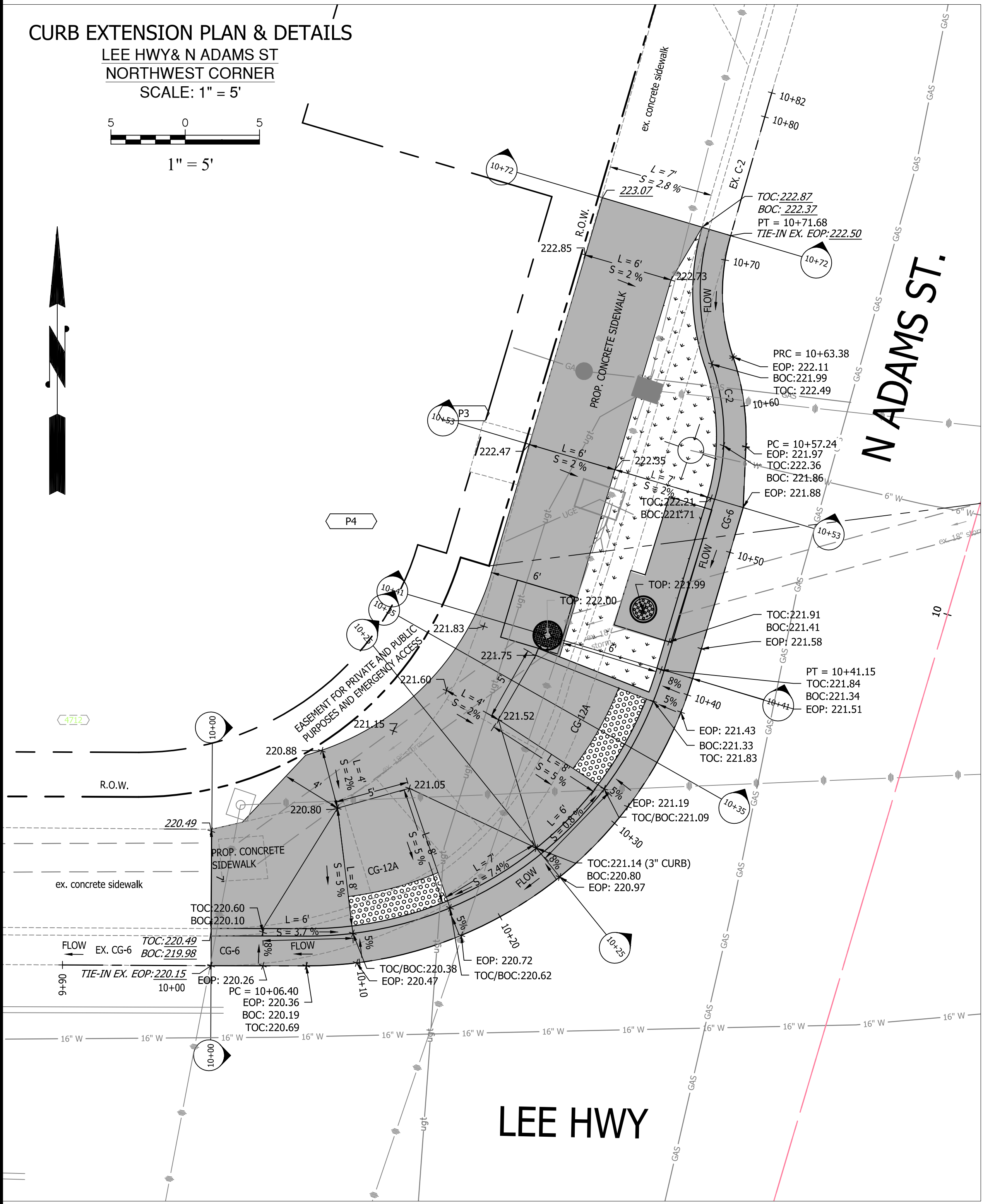
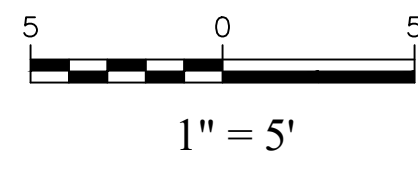
DESIGNED: BW  
 DRAWN: BW  
 CHECKED: JM  
 MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS GEOMETRIC AND CURB E  
 PATH: Q:\DATA\TR07\DATA\LEE HIGHWAY, ADAMS ST\RAW\CD\SHEETS  
 PLOTTED: OCTOBER 7 2021  
 PLOTTED BY: BWU

SCALE AS NOTED

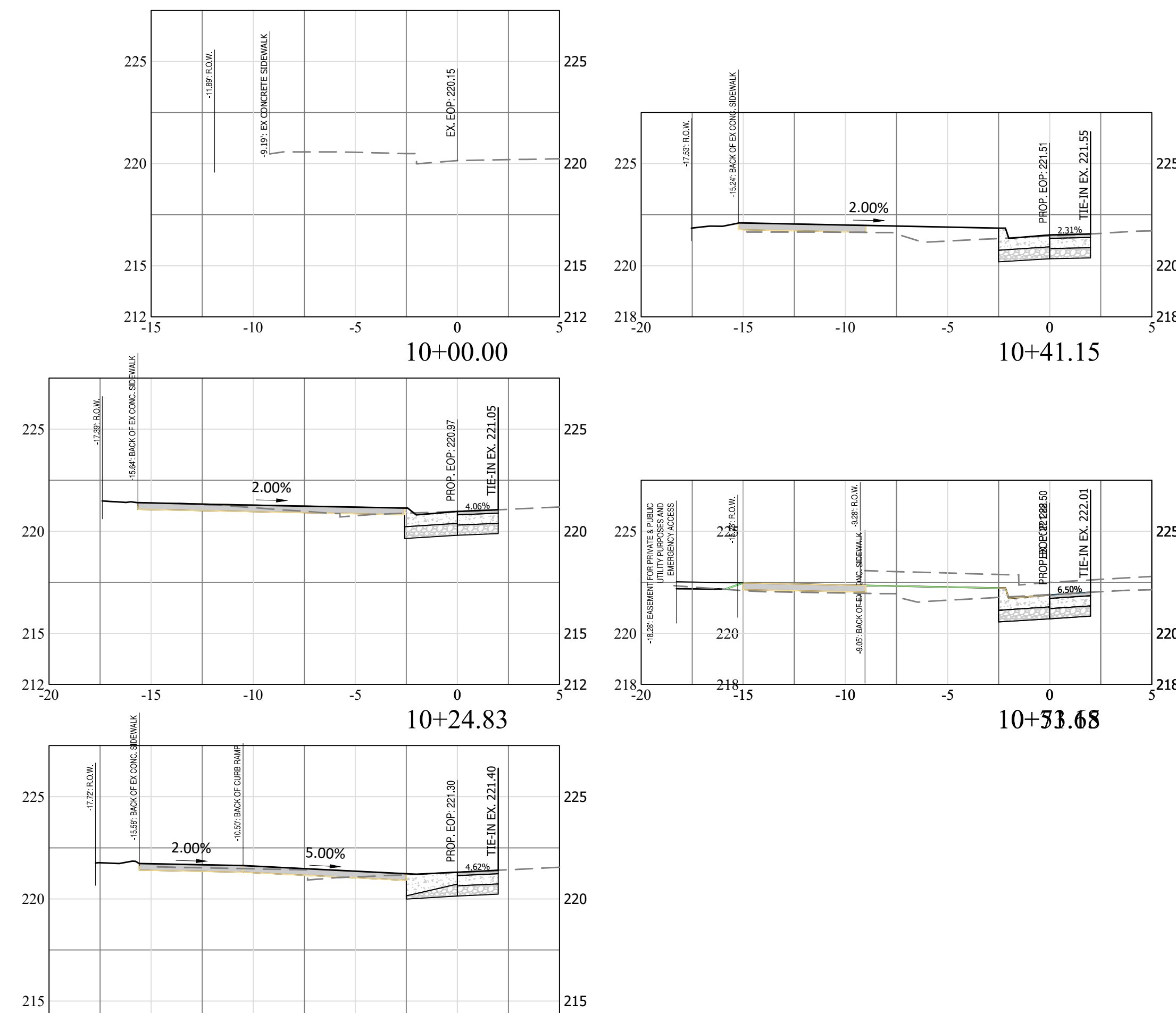
SHEET  
**C15 OF C23**

**CURB EXTENSION PLAN & DETAILS**  
LEE HWY & N ADAMS ST  
NORTHWEST CORNER  
SCALE: 1" = 5'

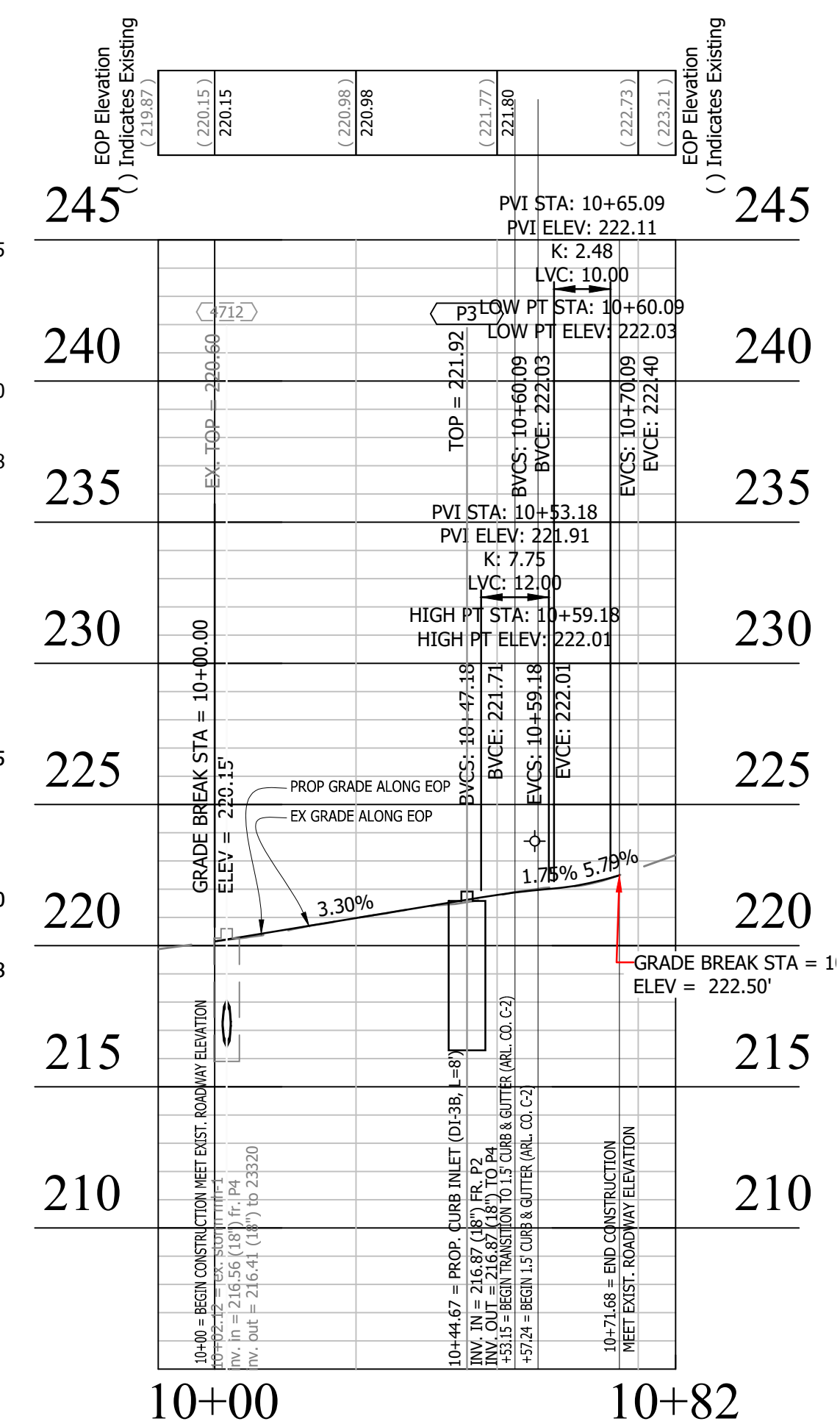


**LEGEND:**  
XXX.XX: INDICATES EXISTING ELEVATION  
XXX.XX: INDICATES PROPOSED ELEVATION

**CURB EXTENSION CROSS SECTIONS**  
LEE HWY & N ADAMS ST  
NORTHWEST CORNER  
SCALE: 1" = 5' (H)  
1" = 1' (V)



**CURB EXTENSION PROFILE**  
LEE HWY & N ADAMS ST  
NORTHWEST CORNER  
SCALE: 1" = 25' (H)  
1" = 5' (V)



**ARLINGTON VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
TRANSPORTATION ENGINEERING & OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719  
COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED



APPROVALS	DATE
<i>John Yastrom</i> TRAFFIC SIGNAL ENGINEER	1/31/2022
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	03/18/2022
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	02.18.2022
<i>John Nicks</i> TE&O BUREAU CHIEF	03/18/2022
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	03/21/22

REVISIONS	DATE

**PROJECT NAME AND LOCATION**  
LEE HIGHWAY & NORTH ADAMS STREET  
**CURB EXTENSION DETAILS - NORTHWEST QUADRANT**  
INTERSECTION SIGNAL IMPROVEMENT TR07

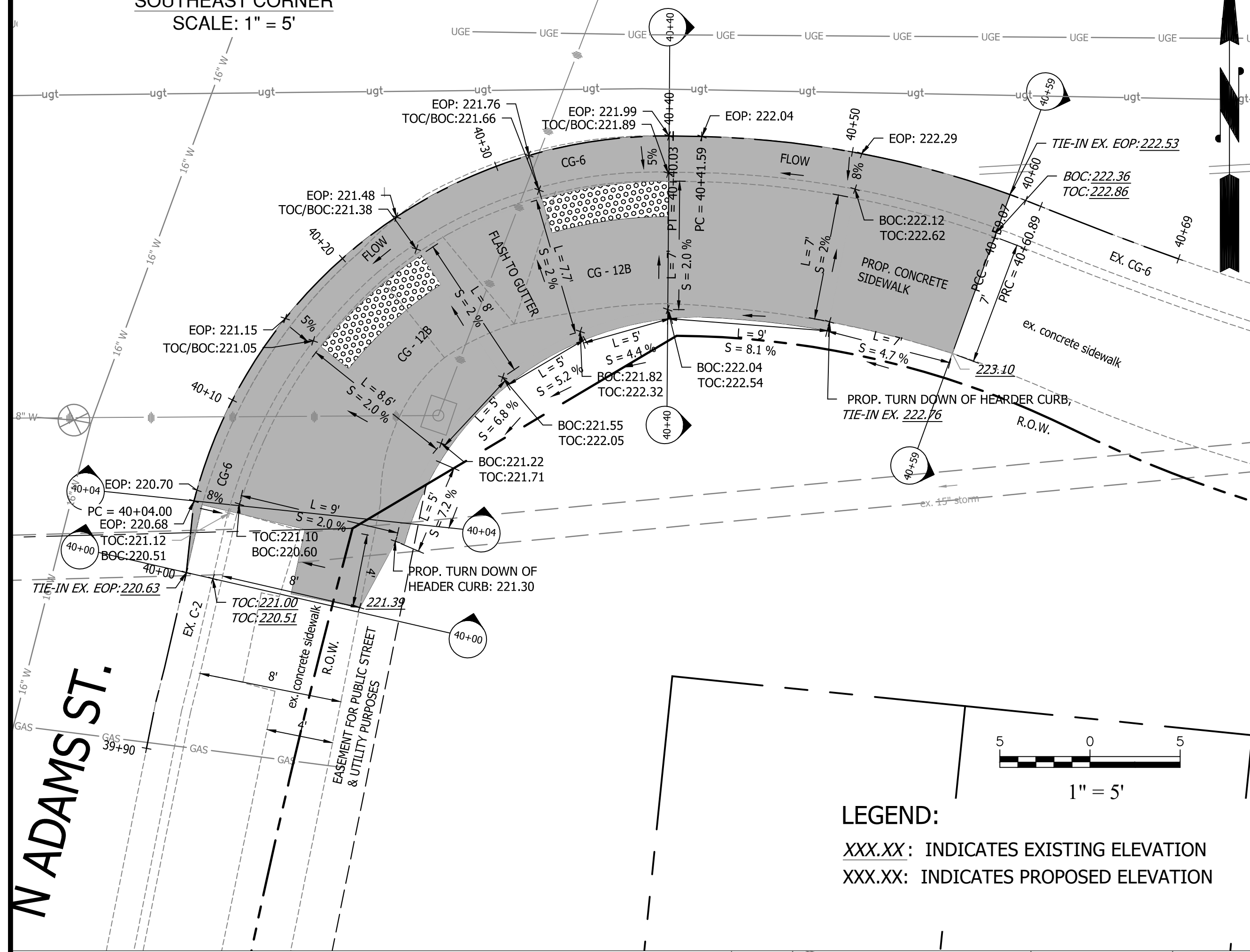
DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A  
FILENAME: TR07 - N ADAMS GEOMETRIC AND CURB E  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\DRAWING\DR07SHEETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

SCALE AS NOTED

SHEET  
**C16 OF C23**

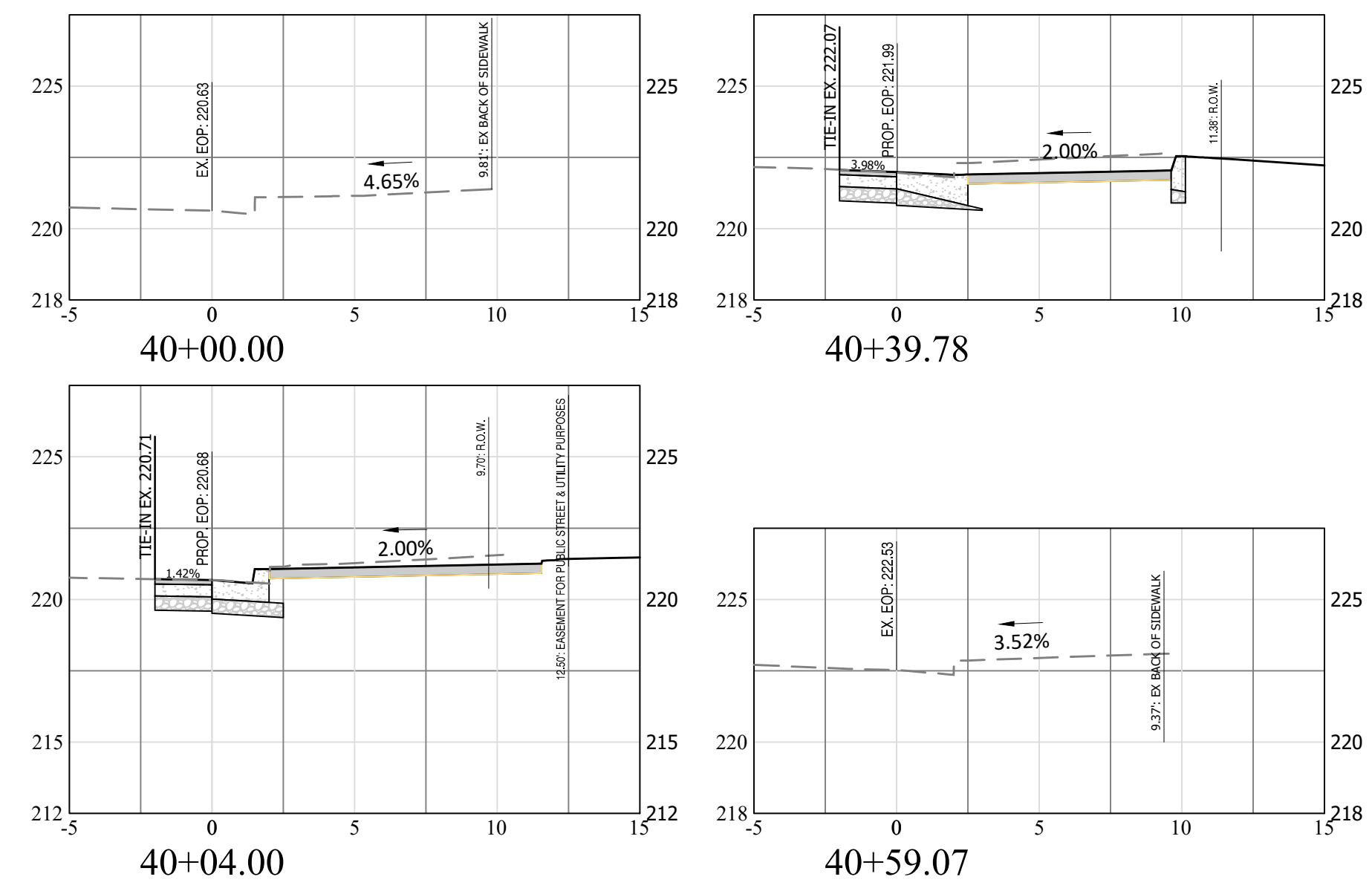
**CURB EXTENSION PLAN & DETAILS**  
LEE HWY & N ADAMS ST  
SOUTHEAST CORNER  
SCALE: 1" = 5'

**LEE HWY**

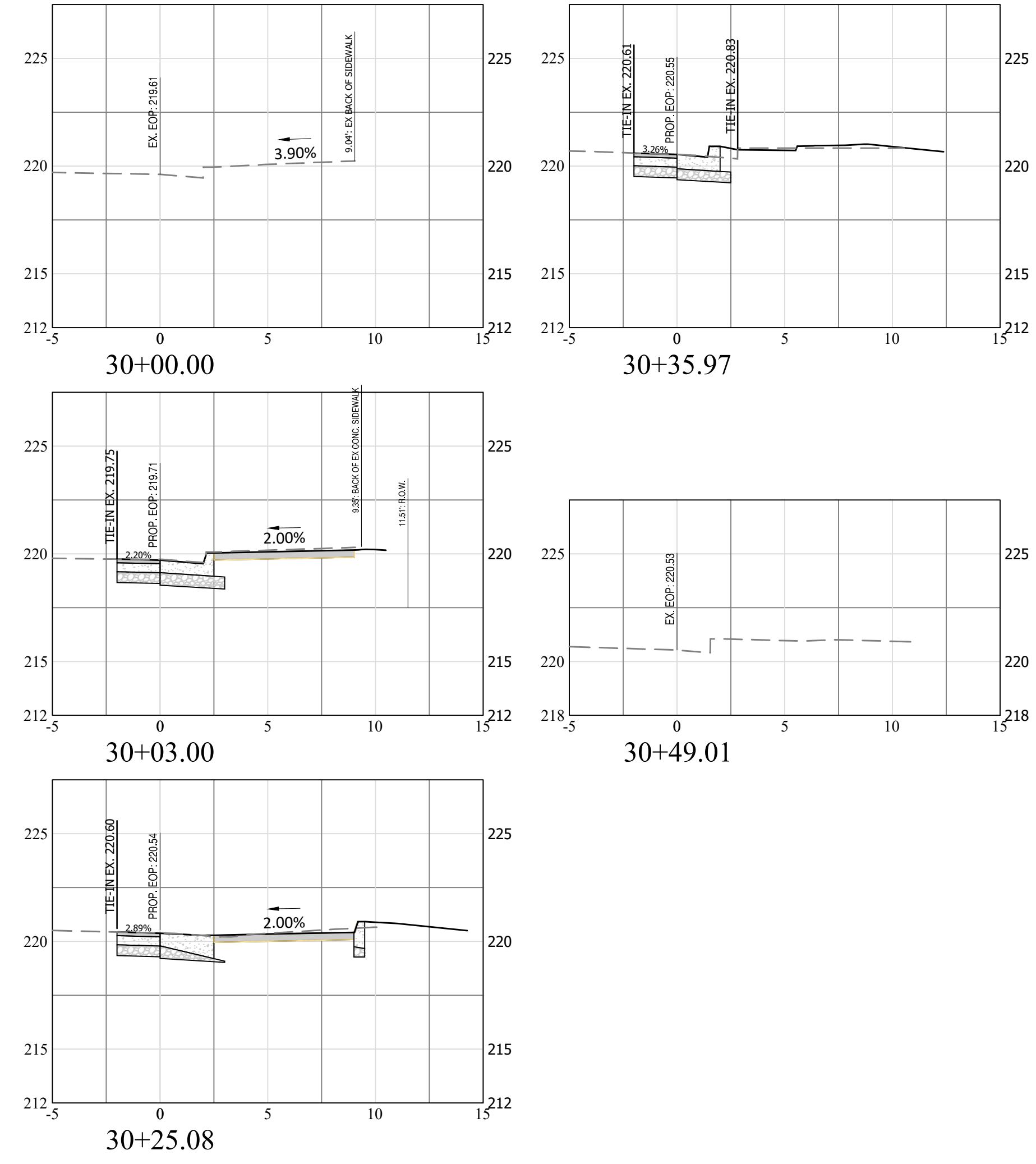


**LEGEND:**  
XXX.XX: INDICATES EXISTING ELEVATION  
XXX.XX: INDICATES PROPOSED ELEVATION

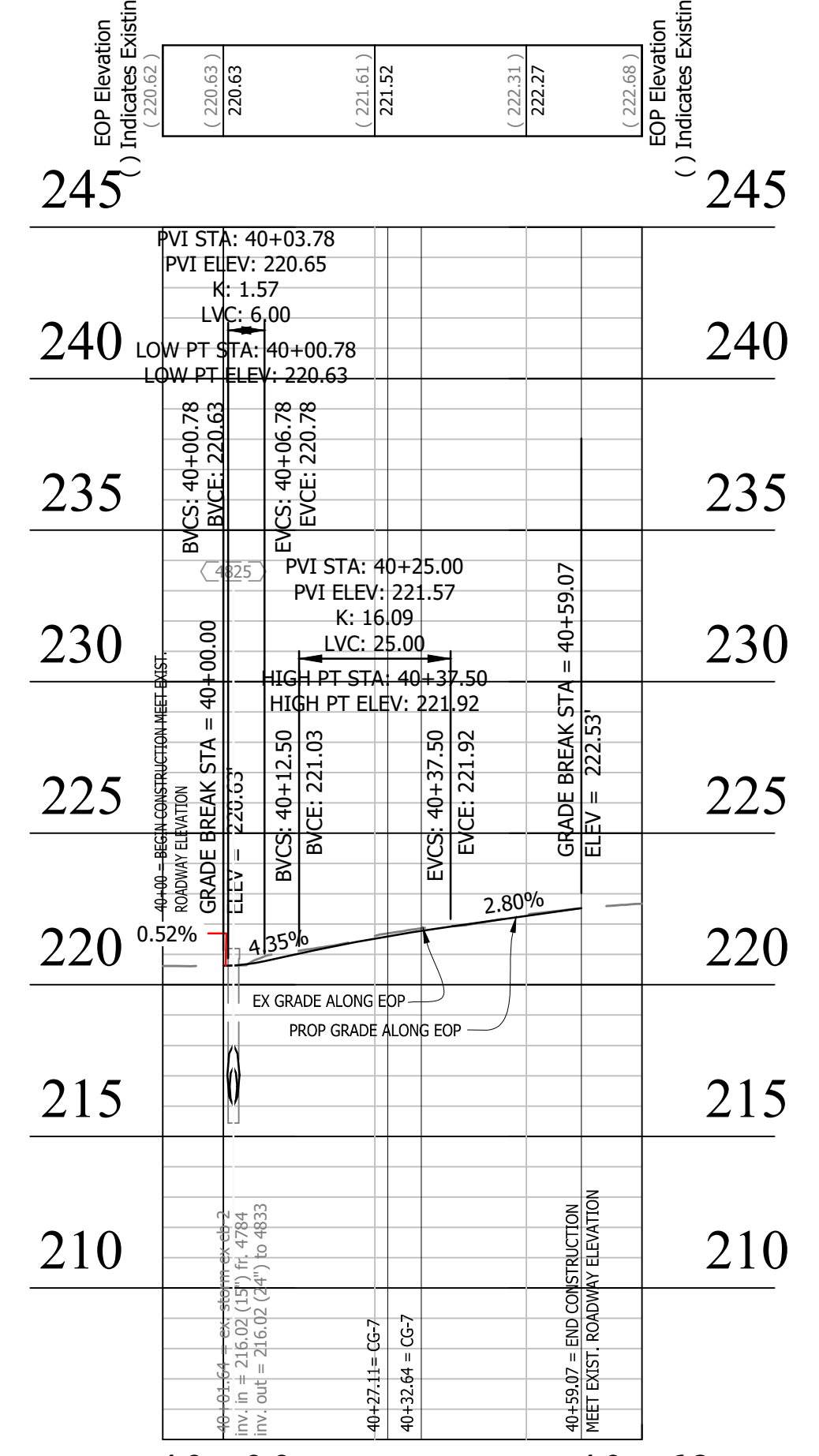
**CURB EXTENSION CROSS SECTIONS**  
LEE HWY & N ADAMS ST  
SOUTHEAST CORNER  
SCALE: 1" = 5' (H)  
1" = 1' (V)



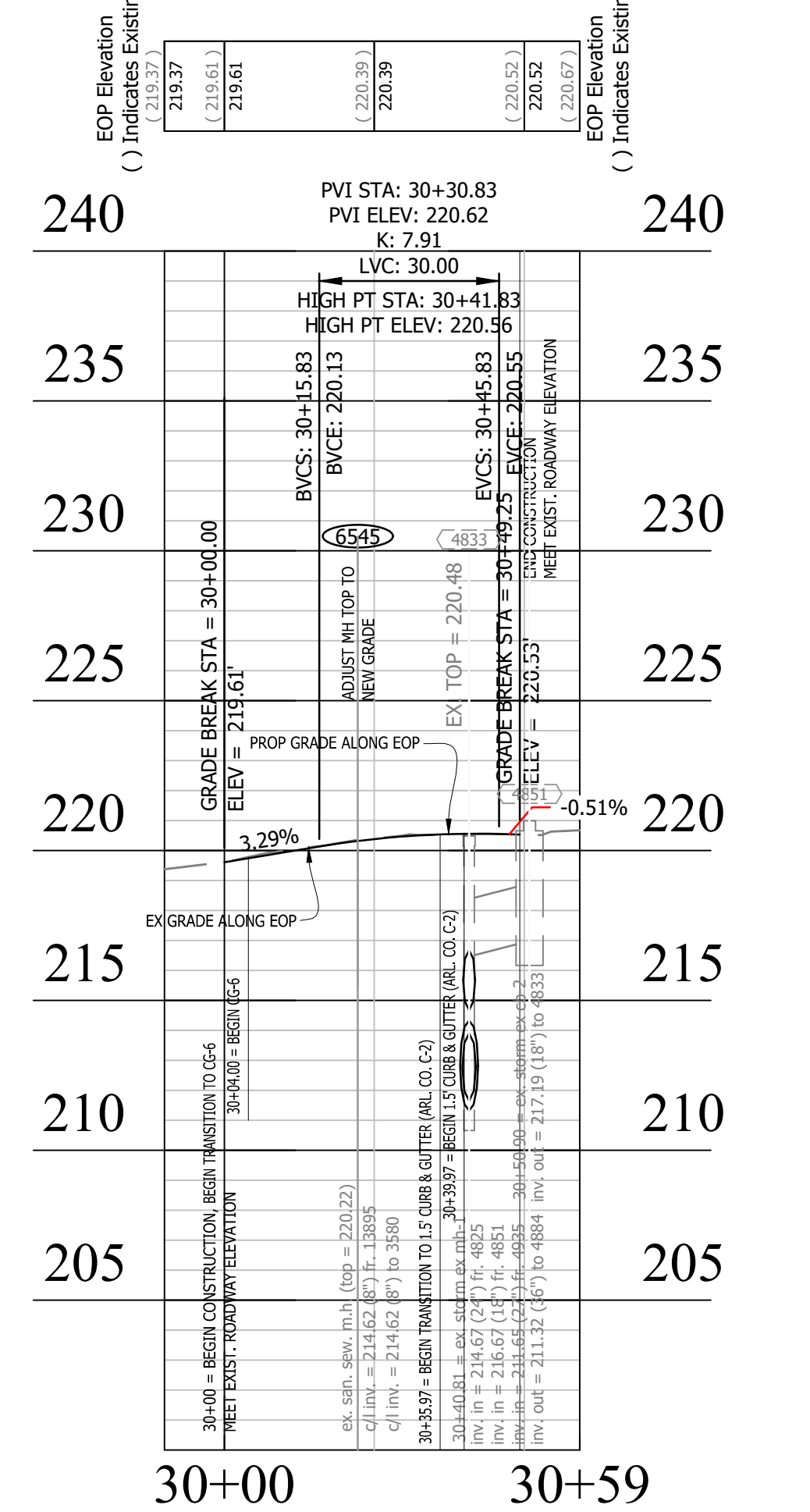
**CURB EXTENSION CROSS SECTIONS**  
LEE HWY & N ADAMS ST  
SOUTHWEST CORNER  
SCALE: 1" = 5' (H)  
1" = 1' (V)



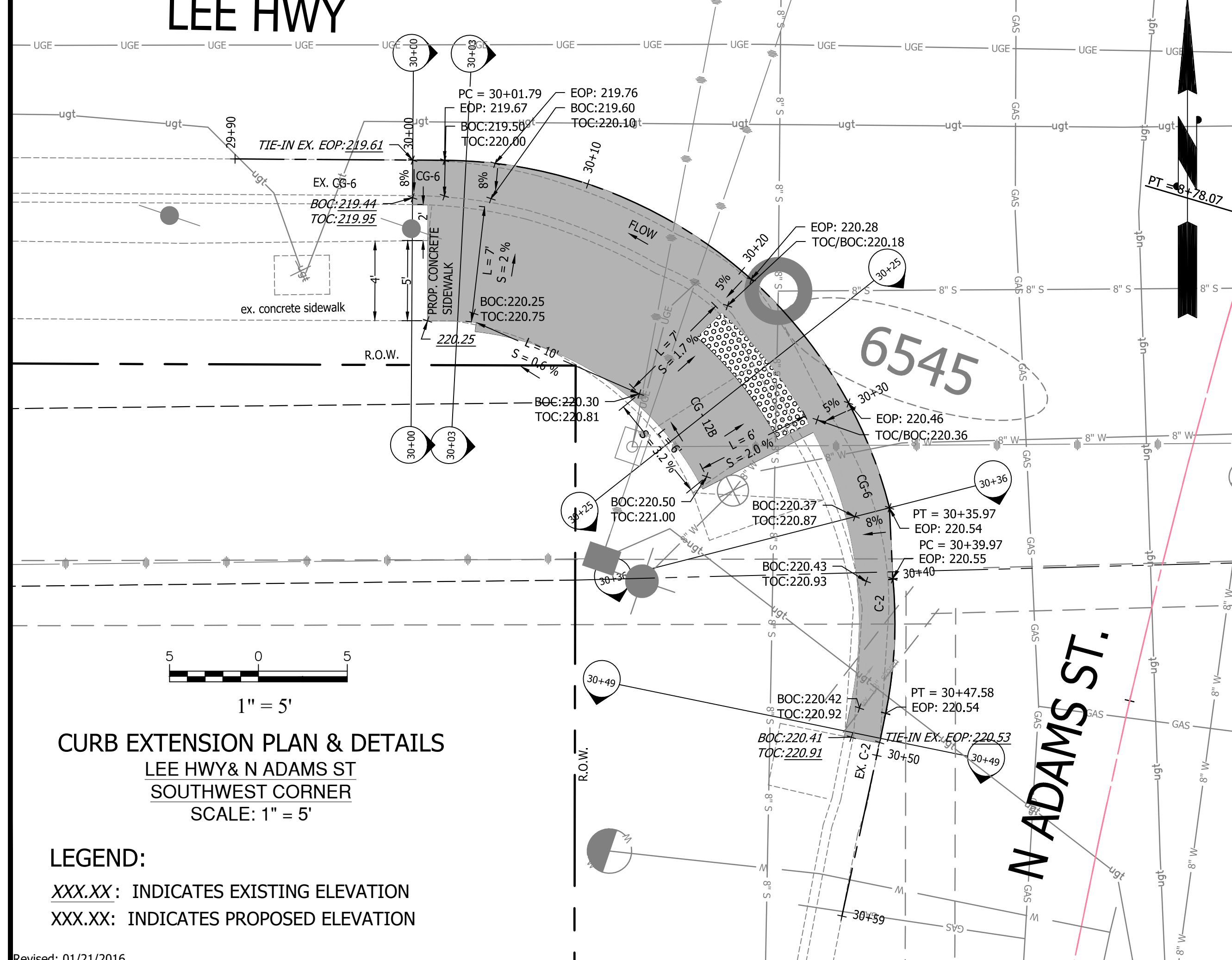
**CURB EXTENSION PROFILE**  
LEE HWY & N ADAMS ST  
SOUTHEAST CORNER  
SCALE: 1" = 25' (H)  
1" = 5' (V)



**40+00 40+69**  
**CURB EXTENSION PROFILE**  
LEE HWY & N ADAMS ST SOUTHWEST CORNER  
SCALE: 1" = 25' (H), 1" = 5' (V)



**LEE HWY**



**CURB EXTENSION PLAN & DETAILS**  
LEE HWY & N ADAMS ST  
SOUTHWEST CORNER  
SCALE: 1" = 5'

**LEGEND:**  
XXX.XX: INDICATES EXISTING ELEVATION  
XXX.XX: INDICATES PROPOSED ELEVATION



DEPARTMENT OF ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719



APPROVALS	DATE
<i>John Wilson</i> TRAFFIC SIGNAL ENGINEER	1/31/2022
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	03/18/2022
<i>John</i> WATER, SEWER, STREETS BUREAU CHIEF	02.18.2022
<i>John</i> TE&O BUREAU CHIEF	03/18/2022
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	03/21/22

REVISIONS	DATE

**PROJECT NAME AND LOCATION**  
LEE HIGHWAY &  
NORTH ADAMS STREET  
**CURB EXTENSIONS DETAILS - SOUTHWEST AND SOUTHEAST QUADRANTS**  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

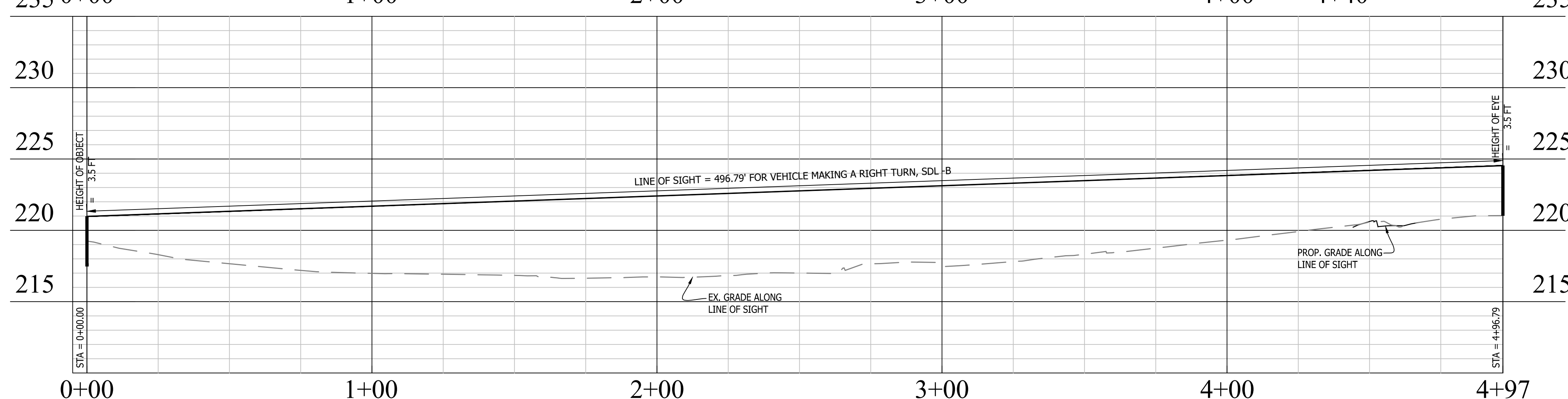
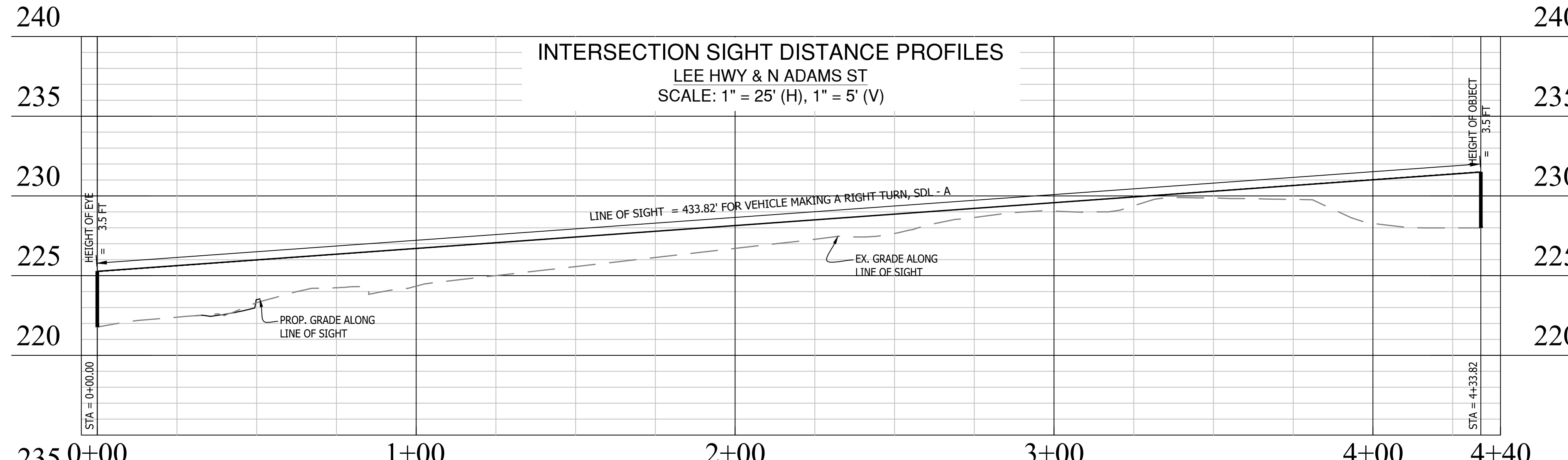
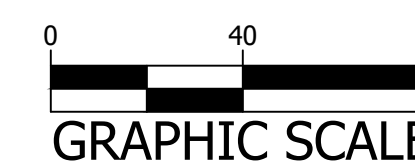
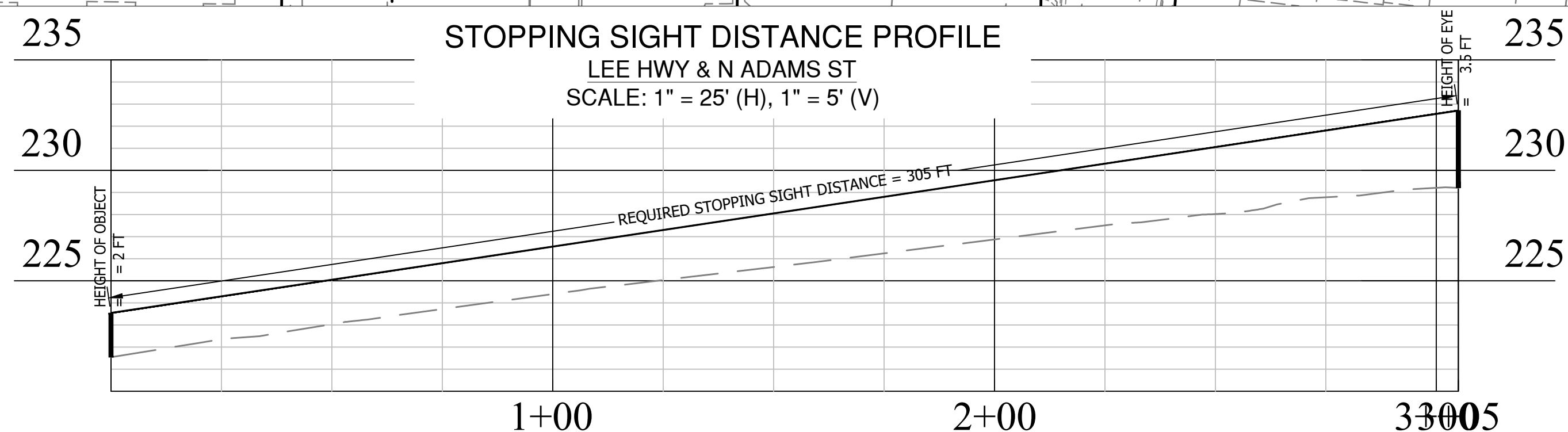
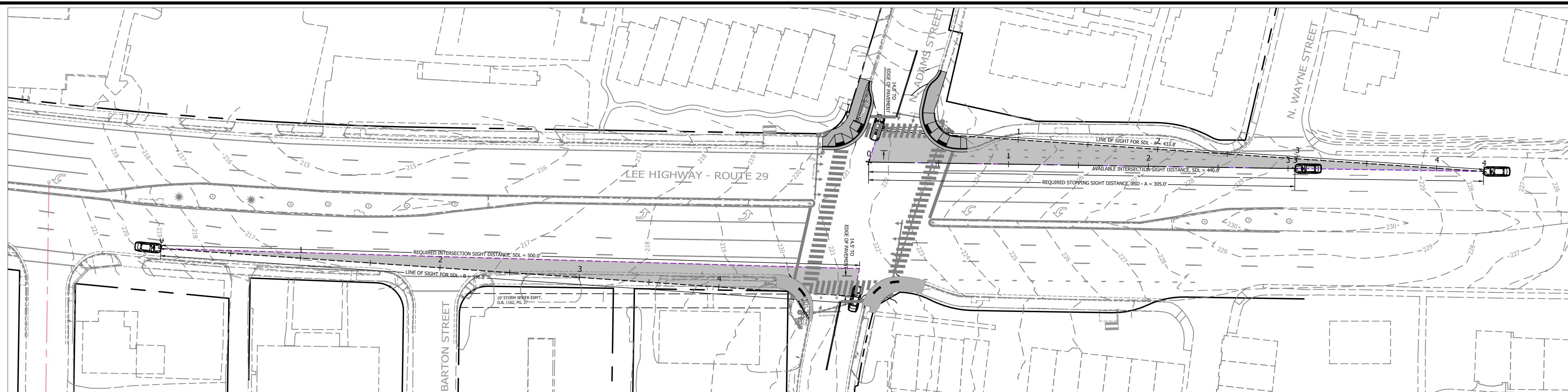
FILENAME: TR07 - N ADAMS GEOMETRIC AND CURB E  
PATH: Q:\DATA\TR07\CD\ALICE HIGHWAY\_N ADAMS ST\DWG\CD\TR07  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

SCALE AS NOTED  
SHEET  
**C17 OF C23**









THIS PLAN IS FOR  
INTERSECTION SIGHT  
DISTANCE EXHIBIT  
PURPOSES ONLY

**INTERSECTION CONDITION**

POSTED SPEED FOR MAJOR ROAD  
LEE HWY: 35 MPH

DESIGN SPEED FOR MAJOR ROAD  
LEE HWY: 40 MPH

INTERSECTION SIGHT DISTANCE (RIGHT TURN FROM N  
ADAM ST)  
SDL: REQUIRED - 500' (GRADE ADJUSTMENT FACTOR =  
1.0)  
STOPPING SIGHT DISTANCE REQUIRED = 305'

NOTE:  
EXISTING SURFACE WAS GENERATED FROM ARLINGTON  
COUNTY EXISTING GIS DATA.

SEAL



APPROVALS DATE

<i>John Wilson</i>	1/31/2022
TRAFFIC SIGNAL ENGINEER	
<i>John Nicks</i>	03/18/2022
TRAFFIC ENGINEERING MANAGER	
<i>John Nicks</i>	02.18.2022
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John Nicks</i>	03/18/2022
TE&O BUREAU CHIEF	
<i>Dennis W. Leach</i>	03/21/22
TRANSPORTATION DIRECTOR	

REVISIONS DATE

REVISIONS	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY &  
NORTH ADAMS STREET**  
INTERSECTION SIGHT DISTANCE EXHIBIT  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW  
DRAWN: BW  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS INTERSECTION SIGHT D  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\N ADAMS ST\DRAWING\DR07SHEETS  
PLOTTED: OCTOBER 7 2021  
PLOTTED BY: BWU

SCALE

AS SHOWN



**LEE HWY SIGNAL UPGRADED PROJECT  
LEE HWY & N. ADAMS ST INTERSECTION  
TRANSPORTATION MANAGEMENT PLAN (TMP)**

**GENERAL TMP NOTES:**

- PROJECT IS A "TYPE A" TMP PROJECT. THIS PROJECT SUPPORTS FOR THE SIGNAL IMPROVEMENT OF LEE HWY & N. ADAMS ST INTERSECTION. THE PROJECT INCLUDES SIDEWALK & CURB RAMP IMPROVEMENT AS WELL
- FOR CONCRETE WORK (ONE-LANE CLOSURE), THE WORKING HOURS ALONG VDOT RIGHT-OF-WAY AREA ARE AS FOLLOWS:

MON. TO THU.	FRIDAY	SATURDAY	SUNDAY
9:30 AM TO 3:30 PM	9:30 AM TO 2:00 PM	*Not Allowed	*Not Allowed

- THE WORKING HOURS WITHIN ARLINGTON COUNTY RIGHT-OF-WAY ARE AS FOLLOWS:

MON. TO FRI.	SATURDAY	SUNDAY
9:00 AM TO 4:00 PM	*Not Allowed	*Not Allowed

- BEFORE AND AFTER WORKING HOURS, ALL TRAVEL LANES SHALL BE OPENED TO THE MOTORISTS.
- 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.
- MAINTENANCE OF TRAFFIC (MOT) PLAN WHICH INCLUDE THE SEQUENCE OF CONSTRUCTION (SOC) WAS REVIEWED AND APPROVED BY THE ARLINGTON COUNTY TRANSPORTATION ENGINEERING AND OPERATION (TE&O) BUREAU.
- NO DRIVEWAY ENTRANCES ARE BEING AFFECTED BY THE PROPOSED WORK ALONG VDOT R-O-W.
- THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED.
- THE CONTRACTOR SHALL RETAIN PEDESTRIAN ACCESS TO THE BUS STOPS LOCATED WITHIN THE CONSTRUCTION ZONE FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL :
  - DESIGNATE A PERSON ASSIGNED TO THE PROJECT WHO WILL HAVE THE PRIMARY RESPONSIBILITY, WITH SUFFICIENT AUTHORITY, FOR IMPLEMENTING THE TMP/MOT/SOC AND OTHER SAFETY AND MOBILITY ASPECTS OF THE PERMIT WORK. THIS PERSON SHALL COORDINATE WITH THE ARLINGTON COUNTY CONSTRUCTION MANAGER FOR THE DURATION OF THE PROJECT.
  - 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.
  - PERFORM REVIEWS OF THE CONSTRUCTION AREA TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERVALS AT THE DIRECTION OF THE ENGINEER. CONTRACTORS SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTROL PLAN AT THE WORK SITE AT ALL TIMES.
- THIS TMP/MOT/SOC PLAN IS INTENDED AS A GUIDE. IT IS NOT TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF EXISTING TRAFFIC. IF THE CONTRACTOR IS TO DEVIATE FROM THE APPROVED TMP, A NEW OR REVISED TMP MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED UP TO EXISTING PAVEMENT OR NEWLY CONSTRUCTED PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC.
- 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.
- EACH PHASE OF CONSTRUCTION SHALL BE COMPLETED PRIOR TO THE START OF THE NEXT PHASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PUBLIC COMMUNICATION PLAN  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - NOTIFYING THE VDOT PROJECT MANAGER/RESIDENCY ADMINISTRATOR OF SCHEDULED WORK PLANS AT LEAST 48 HOURS PRIOR TO BEGINNING EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.
  - NOTIFYING THE VDOT PROJECT MANAGER/RESIDENCY ADMINISTRATOR, REGIONAL OPERATION MANAGER AND THE PUBLIC AFFAIRS STAFF OF ANY UNSCHEDULED TRAFFIC DELAYS THAT THAT MAY OCCUR.
  - INSTALLING VARIABLE MESSAGE SIGNS (VMS) WITH PROJECT START DATE INFORMATION APPROXIMATELY 500' BEFORE AND AFTER THE PROJECT SITE LIMIT THREE (3) WEEKS IN ADVANCE PRIOR TO START OF ANY ROADWORK AND LANE CLOSURE.
- TRANSPORTATION OPERATION PLANS  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND PROVIDING THE FOLLOWING:
  - NOTIFYING THE VDOT REGIONAL TRANSPORTATION OPERATIONS CENTER (TOC) 48 HOURS IN ADVANCE IN ORDER TO PLACE LANE CLOSURE INFORMATION ON THE 511 SYSTEM AND VA-TRAFFIC. FOR ADDITIONAL INFORMATION, PLEASE CALL CARLENE MC WHIRT AT 571-350-2078.
  - HAVING THE LIST OF LOCAL EMERGENCY RESPONSE AGENCIES AVAILABLE AT THE WORK SITE AT ALL TIMES.
  - IMMEDIATELY REPORTING ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
  - NOTIFY THE PROJECT'S CONSTRUCTION MANAGER AND CORRESPONDING ENGINEER OF ANY INCIDENTS AND EXPECTED TRAFFIC DELAYS.
  - WITHIN 24 HOURS OF ANY INCIDENTS WITHIN THE CONSTRUCTION WORK ZONE, A REVIEW OF THE TRAFFIC CONTROLS SHALL BE IMPLEMENTED AND NECESSARY ADJUSTMENTS MADE TO REDUCE THE FREQUENCY AND SEVERITY OF ANY FUTURE ACCIDENTS.
  - EMERGENCY CONTACTS DURING THE DURATION OF THE PROJECTS ARE THE FOLLOWING:
    - SAROSH SALEEM - CONSTRUCTION MANAGEMENT MANAGER - 703-228-3402
    - JOSHUA NICHOLAS - PROJECT MANAGER - 703-228-3861
    - DES R-O-W PERMITTING SECTION - 703-228-4798
    - ARLINGTON COUNTY TRANSIT BUREAU - 703-228-3049
    - WATER, SEWER AND STREET OPERATION - 703-228-6555
    - ARLINGTON COUNTY POLICE - 703-558-2222
    - EMERGENCY CALL - 911
    - VDOT PROJECT CONSTRUCTION INSPECTOR - TBD

**FIRE DEPARTMENT NOTES:**

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

**MAINTENANCE OF TRAFFIC (MOT) GENERAL NOTES:**

- TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL COMPLY WITH THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, AND/OR AS DIRECTED BY THE PROJECT OFFICER.
- 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. THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF PROCEEDING TO THE NEXT WORK SEGMENT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER OF PARKING RESTRICTION NEEDS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK FOR EACH SEGMENT. COUNTY PROJECT OFFICER SHALL RESTRICT PARKING BY CONTACTING DES - PERMITTING SECTION, 703-228-4798.
- PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.
- 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 CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF DRIVEWAY CLOSURE FOR APPROVAL BY THE PROJECT OFFICER. THE PROJECT OFFICER SHALL BE NOTIFIED A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF SUCH ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THE PROPERTY. THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY.
- WHEN DOING WORK AT THE INTERSECTION AN ARLINGTON COUNTY POLICE OFFICER(S) SHALL BE PRESENT TO DIRECT OR MONITOR ROAD USERS DURING MOT OPERATIONS AT THE CONTRACTOR'S EXPENSE. CONTACT ARLINGTON COUNTY POLICE DEPARTMENT LT. ROBERT DESO OR HIS ASSIGNEE AT 703-228-7460 FOR DETAILS AT LEAST 2 WEEKS IN ADVANCE PRIOR TO START OF WORK AT FOLLOWING INTERSECTIONS SHOWN BELOW.
  - LEE HIGHWAY / N. ADAMS STREET INTERSECTION
- ANY EXCAVATIONS WHICH ARE SPECIFICALLY APPROVED BY THE PROJECT OFFICER 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 PROJECT OFFICER.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS, UNLESS OTHERWISE APPROVED IN THE PLANS.
- 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 MIDBLOCK WORK SITES.
- PEDESTRIANS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.
- THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY TRANSIT BUREAU, 703-228-3049, A MINIMUM OF 4 WEEKS PRIOR TO COMMENCEMENT OF WORK, IF TRANSIT IS AFFECTED.
- AT SIGNALIZED INTERSECTIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE DETECTION AT ALL TIMES DURING THE PROJECT. TRAFFIC SENSORS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION STATE PRIOR TO THE COMPLETION OF THIS PROJECT.
- THE CONTRACTOR SHALL COMPLY WITH "RESTRICTED" WORKING HOURS AS DEFINED BY VDOT AND AS NOTED ON THE APPROVED VDOT PERMIT WHEN WORKING WITHIN THE VDOT RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR SATISFYING ALL VDOT PERMIT REQUIREMENTS.
- MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE FOLLOWED BY THE CONTRACTOR DURING CONSTRUCTION. SHOULD THE CONTRACTOR DESIRE TO FOLLOW AN ALTERNATE PLAN, HE SHALL SUBMIT THE PLAN PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. ALTERNATIVE PLAN PREPARATION SHALL BE NO COST TO THE COUNTY.
- DIRECTIONAL ARROWS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE PLACED AS PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH ARE NOT APPLICABLE OR ARE IN CONFLICT WITH THIS MOT PLAN.
- THE CONTRACTOR SHALL ERADICATE AND RE-STRIPE AS NECESSARY ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH OR DO NOT ALIGN WITH THE TEMPORARY PAVEMENT MARKINGS OR NEW TRAFFIC PATTERNS.
- THE CONTRACTOR SHALL ERADICATE ALL TEMPORARY PAVEMENT MARKINGS, INCLUDING TEMPORARY MARKED CROSSWALKS ONCE THE WORK AREA(S) ASSOCIATED WITH THE MARKINGS HAS BEEN COMPLETED.
- CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY PUBLIC SCHOOLS TWO WEEKS PRIOR TO STARTING CONSTRUCTION.

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 11:30 am, Feb 02, 2021

**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES  
TRANSPORTATION DIVISION  
TRANSPORTATION ENGINEERING & OPERATION BUREAU  
2100 CLARENDON BOULEVARD, SUITE 900  
ARLINGTON, VA 22201  
PHONE: 703.228.3344  
FAX: 703.228.3719

COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

**SEAL**

APPROVALS	DATE
<i>John Garrison</i> TRAFFIC SIGNAL ENGINEER	1/31/2022
<i>Bi Feng Wu</i> TRAFFIC ENGINEERING MANAGER	03/18/2022
<i>John Garrison</i> WATER, SEWER, STREETS BUREAU CHIEF	02.18.2022
<i>John Garrison</i> TE&O BUREAU CHIEF	03/18/2022
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	03/21/22

REVISIONS	DATE

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
MAINTENANCE OF TRAFFICE PLAN  
INTERSECTION SIGNAL IMPROVEMENT  
TR07

DESIGNED: BW  
DRAWN: JM  
CHECKED: JM  
MISS UTILITY TRANSMITTAL #: N/A

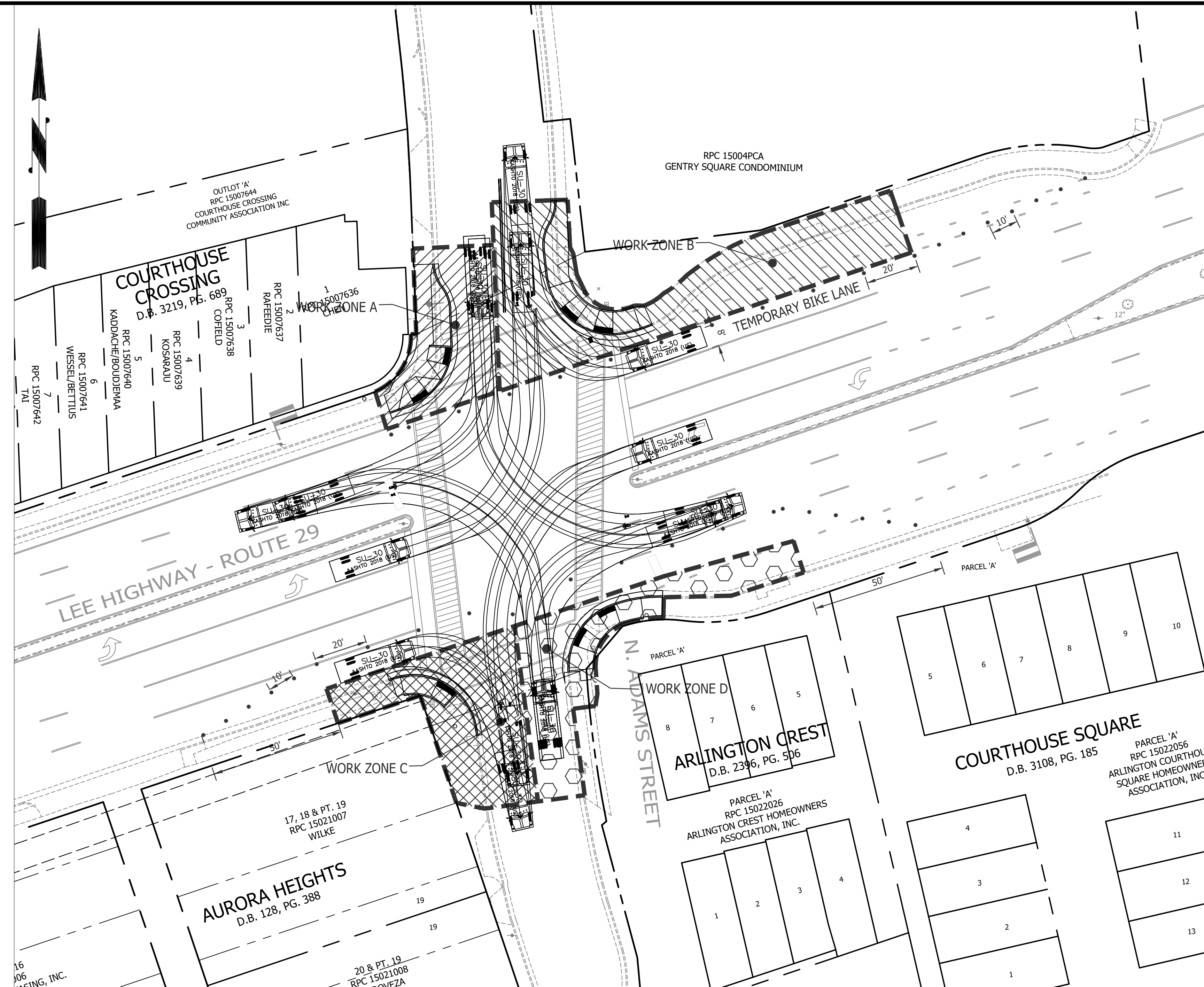
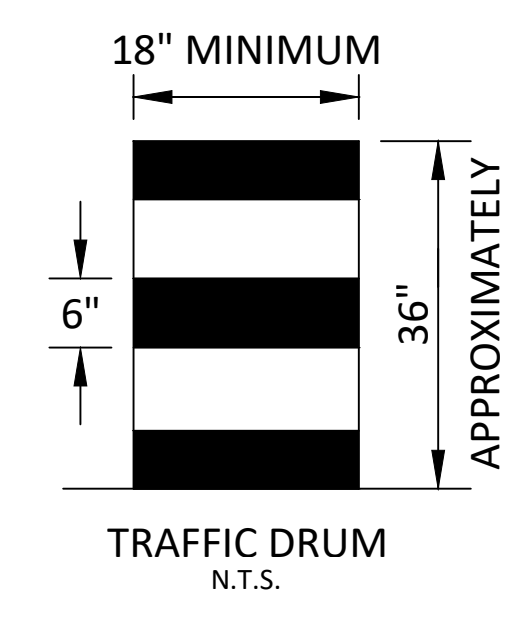
FILENAME: TR07 - N ADAMS STRIPING & MOT PLANS.  
PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY & N. ADAMS ST\DRAWING\DR07SHEETS  
PLOTTED: JANUARY 14 2021  
PLOTTED BY: BWU

**SCALE**  
NOT TO SCALE

SHEET  
**C21 OF C23**

**LEGEND:**

	ARROW PANEL
	ARROW PANEL ON TRAILER
	WORK ZONE A
	WORK ZONE B
	WORK ZONE C
	CORK ZONE D
	TRAFFIC FLOW
	TRAFFIC DRUM
	ARROW PANEL ON TRAILER
	SIGN
	TYPE III BARRICADE
	FLAGGER



**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES  
 TRANSPORTATION DIVISION  
 TRANSPORTATION ENGINEERING & OPERATION BUREAU  
 2100 CLARENDON BOULEVARD, SUITE 900  
 ARLINGTON, VA 22201  
 PHONE: 703.228.3344  
 FAX: 703.228.3719

COPYRIGHT © 2016 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED



APPROVALS	DATE
<i>John Watson</i>	1/31/2022
<i>John Watson</i>	03/18/2022
<i>John Watson</i>	02.18.2022
<i>John Watson</i>	03/18/2022
<i>Dennis M. Leach</i>	03/21/22

REVISIONS	DATE



ZONE	TTC #	COMMENTS	DURATION
ZONE A	TTC - 16.1 TTC - 28.1 TTC - 36.1	• BIKE LANE ON THE WEST BOUND OF LEE HWY SHALL BE CLOSED WITH DIVERSION PATH DURING THE CONSTRUCTION. • THE BUS STOP SHALL BE RELOCATED TO THE FAR SIDE OF THE INTERSECTION TEMPORARILY DURING THE CONSTRUCTION.	TWO WEEKS
ZONE B	TTC - 16.1 TTC - 28.1 TTC - 36.1	• BIKE LANE ON THE WEST BOUND OF LEE HWY SHALL BE CLOSED WITH DIVERSION PATH DURING THE CONSTRUCTION.	TWO WEEKS
ZONE C	TTC - 16.1 TTC - 28.1 TTC - 36.1		TWO WEEKS
ZONE D	TTC - 16.1 TTC - 28.1 TTC - 36.1		TWO WEEKS

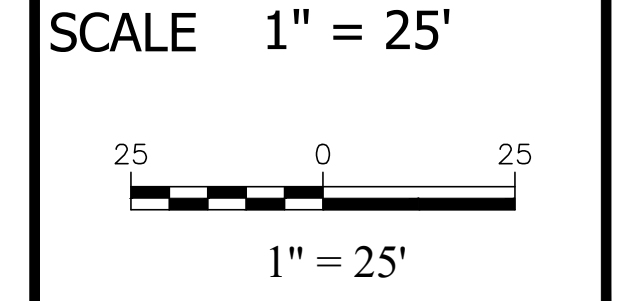
**NOTE: THE DURATIONS SHOWN WERE DEVELOPED FOR PLANNING AND ESTIMATION PURPOSES ONLY. THE DURATIONS IN NO WAY ALTER THE CONTRACT TIME FOR COMPLETION, OR INFRINGE ON THE CONTRACTORS MEANS AND METHODS. THE CONTRACTOR'S SUBMITTED SCHEDULE SUPERSEDES THE ESTIMATED DURATIONS SHOWN.**

**NOTE: THE EXISTING BUS STOPS WILL REMAIN OPEN AND ACCESSIBLE DURING CONSTRUCTION.**

PROJECT NAME AND LOCATION  
**LEE HIGHWAY & NORTH ADAMS STREET**  
 MAINTENANCE OF TRAFFICE PLAN  
 INTERSECTION SIGNAL IMPROVEMENT  
 TR07

DESIGNED: BW  
 DRAWN: BW  
 CHECKED: JM  
 MISS UTILITY TRANSMITTAL #: N/A

FILENAME: TR07 - N ADAMS STRIPING & MOT PLANS.  
 PATH: Q:\DATA\TRAFFIC\DATA\LEE HIGHWAY\ADAMS STRIPING\DRG\SHEETS  
 PLOTTED: OCTOBER 7 2021  
 PLOTTED BY: BWU



SHEET  
**C22 OF C23**

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

NOTES

- Standard: 1. On divided highways having a median wider than 8', right and left sign assemblies shall be required. Guidance: 2. Sign spacing should be 1300'-1500' for Limited Access highways...

Table with 4 columns: Speed Limit (mph), Lane Width (Feet), Remarks, and another set of Speed Limit/Lane Width/Remarks. Includes notes on Limited Access highways and shifting tapers.

- 7. Channelizing device spacing shall be at the following: Channelizing Device Spacing table. 8. An arrow board shall be used when a lane is closed. 9. The buffer space length shall be shown in Table 6H-3...

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

Typical Traffic Control Lane Closure Operation in an Intersection (Figure TTC-28.2)

NOTES

- Guidance: 1. The control of traffic through the intersection in order of preference should be: a. Obtain the services of law enforcement personnel. b. Detour the effective routes to other roads and streets...

- Standard: 4. Channelizing device spacing shall be on 20' centers or less. 5. PTRS shall be used as noted in Section 6F.99. Guidance: 6. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscillating light should be parked 80'-120' in advance of the first work crew.

- Standard: 7. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used. Guidance: 8. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

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

Typical Traffic Control Crosswalk Closure and Pedestrian Detour Operation (Figure TTC-36.2)

NOTES

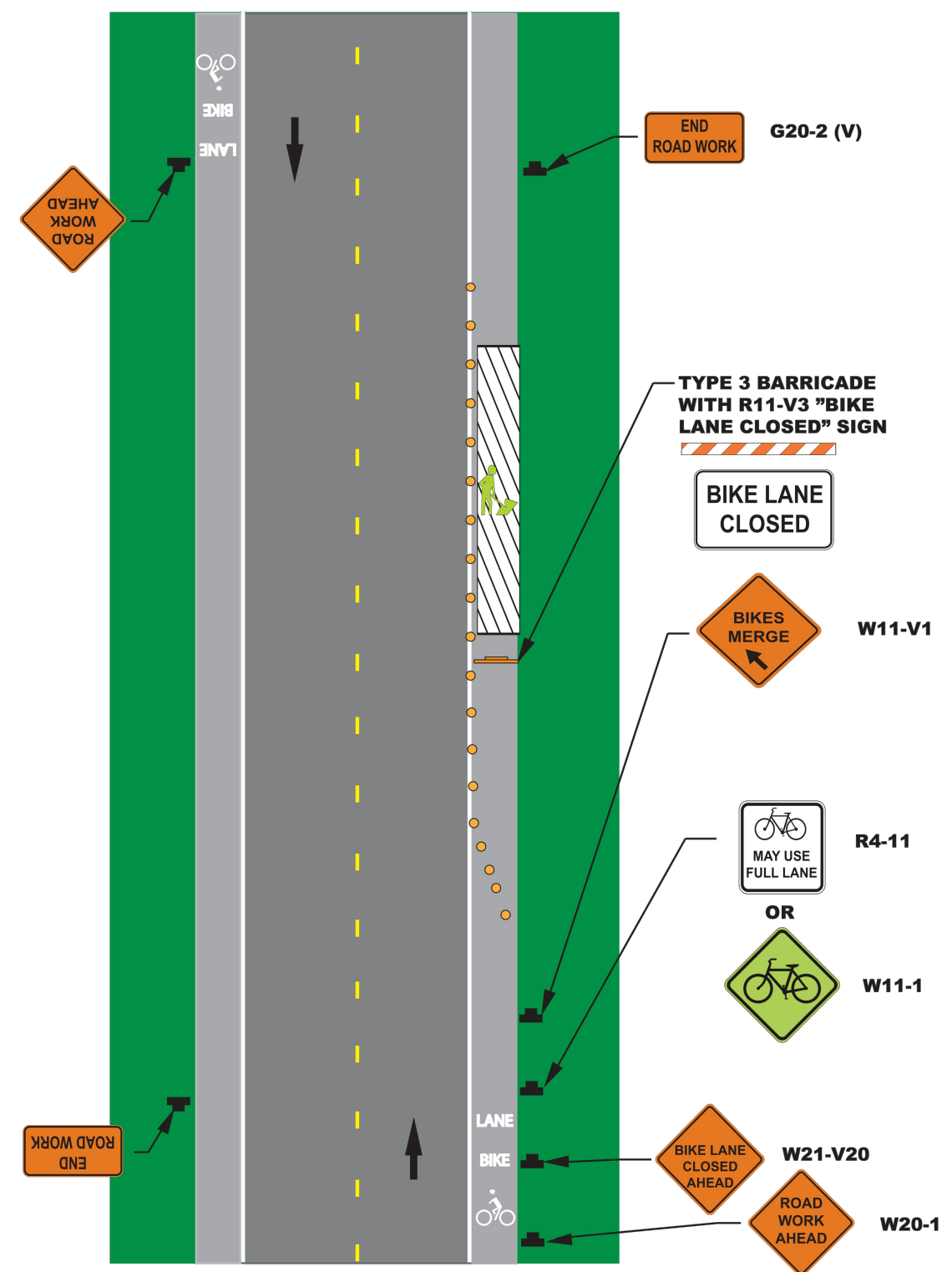
- Standard: 1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility. 2. Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.

- Guidance: 3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities. 4. Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated. Option: 6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.

- Standard: 8. In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones. 9. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade.

- Support: 11. The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line. 12. Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.

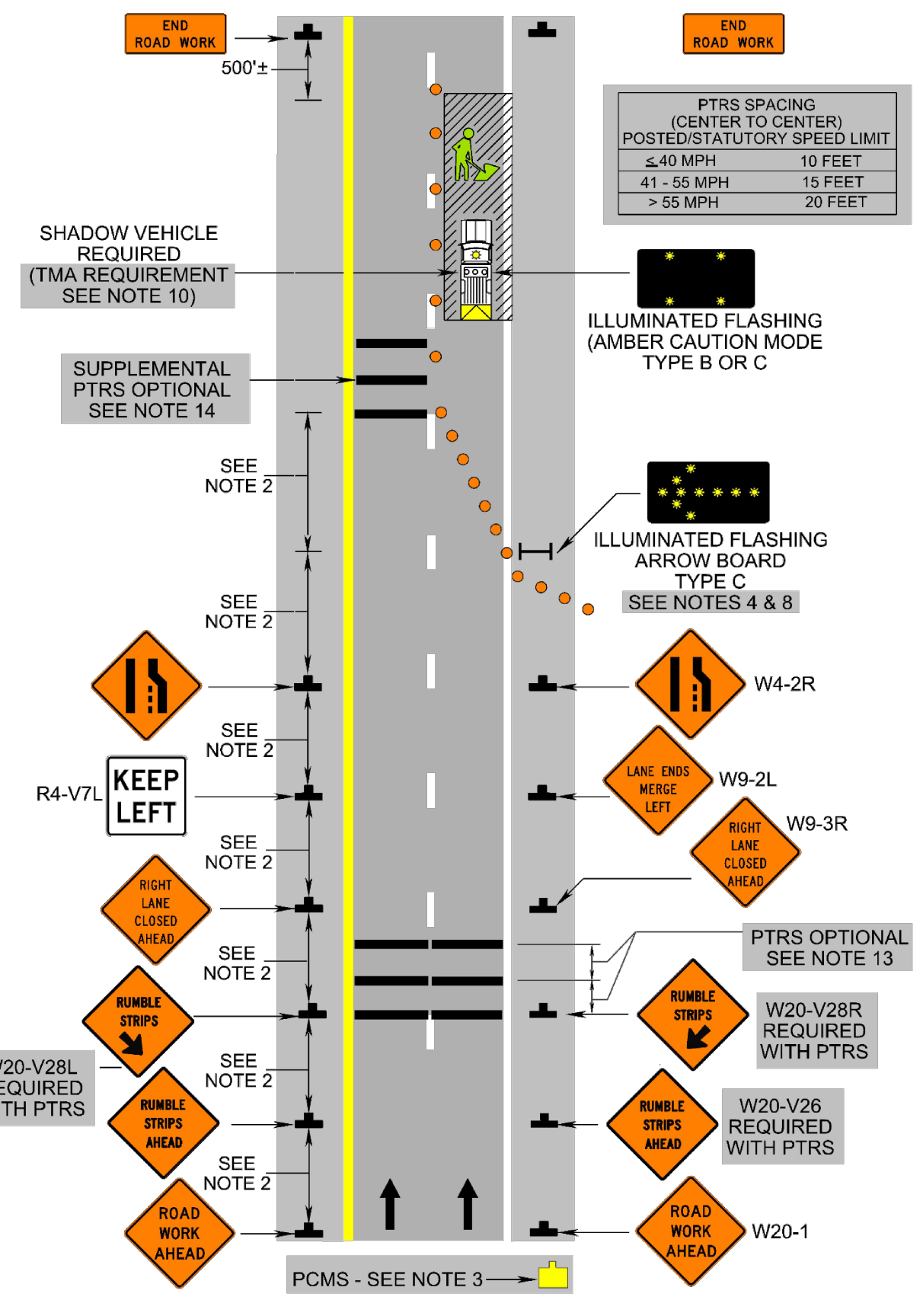
1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019



EXAMPLE OF A BICYCLE LANE CLOSURE

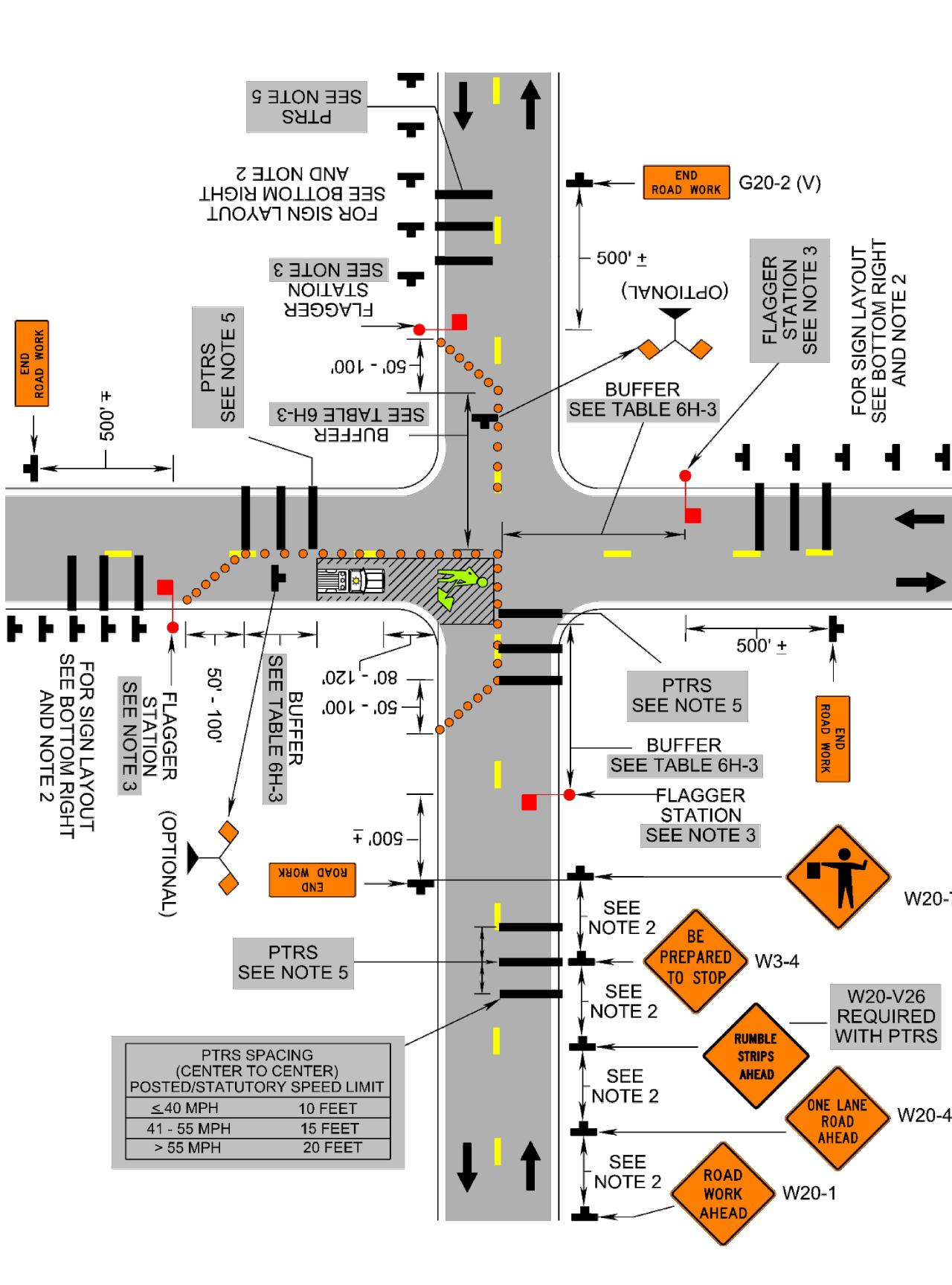
21

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



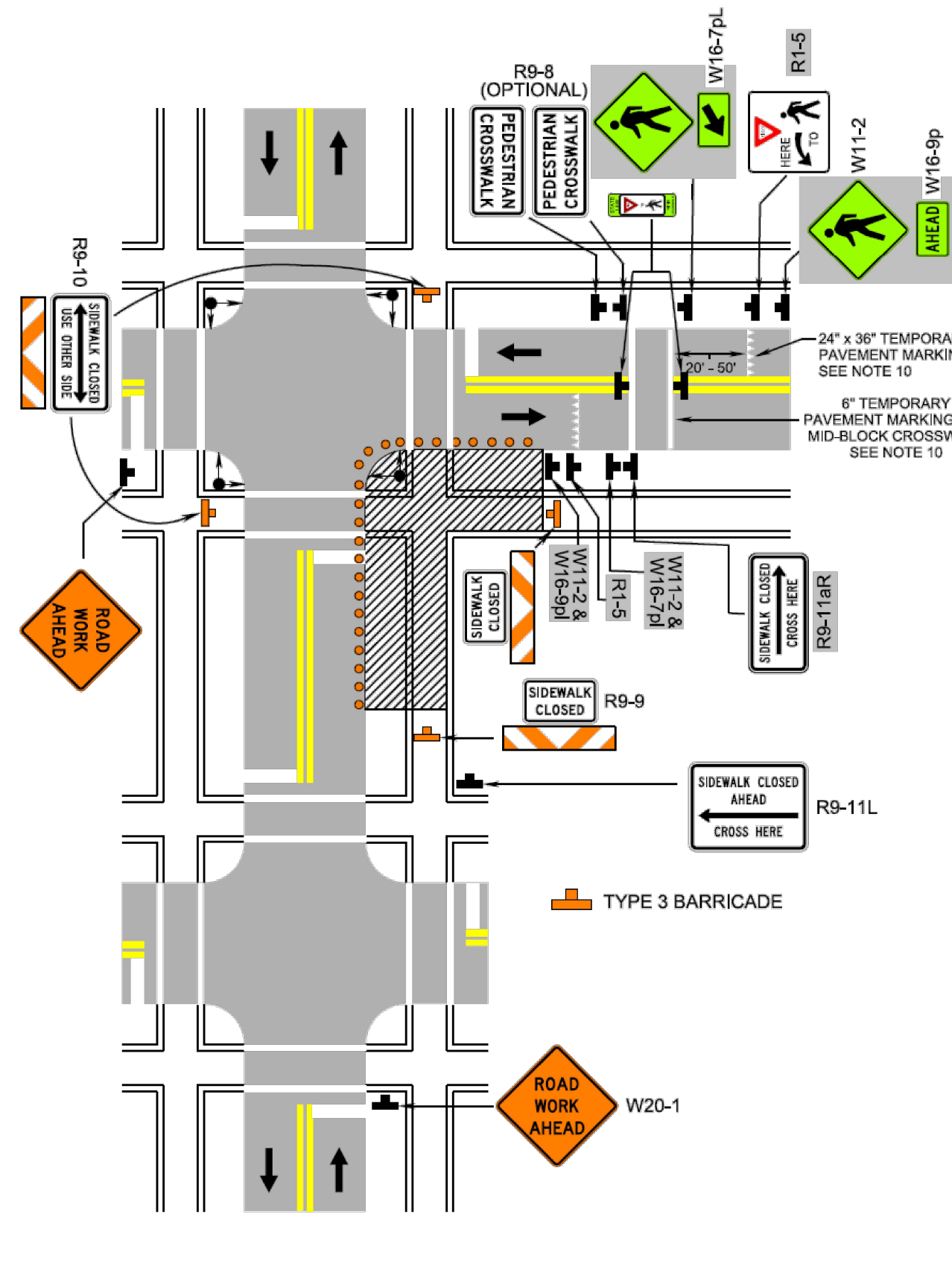
2: Revision 2 - 9/1/2019

Lane Closure Operation in an Intersection (Figure TTC-28.2)



2: Revision 2 - 9/1/2019

Crosswalk Closure and Pedestrian Detour Operation (Figure TTC-36.2)



1: Revision 1 - 4/1/2015 2: Revision 2 - 7/1/2018



DEPARTMENT OF ENVIRONMENTAL SERVICES TRANSPORTATION DIVISION TRANSPORTATION ENGINEERING & OPERATION BUREAU



APPROVALS 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 table with columns for Revision Number and Date.

PROJECT NAME AND LOCATION: LEE HIGHWAY & NORTH ADAMS STREET. APPLICATIONS: TEMPORARY TRAFFIC CONTROL, INTERSECTION SIGNAL IMPROVEMENT. TR07

DESIGNED: BW, DRAWN: JM, CHECKED: BW, MISS UTILITY TRANSMITTAL #: N/A, FILENAME: TR07 - N ADAMS STRIPING & MOT PLANS.

SCALE: NOT TO SCALE

SHEET: C23 OF C23



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 29 (Lee Highway) and North Adams Street (TS#144)
Project Number: TR# 07

Signal Notes

A. POLES AND FOUNDATIONS

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

B. CONTROLLER AND FOUNDATION

- 1. NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS.
2. CONTROLLER SHALL BE INTELIGHT X-3 AND SHALL BE INSTALLED AND SET AS FOLLOWS:
2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL
2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
3. THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01, 66-02, AND 70-01.
4. THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS.

C. TRAFFIC SIGNAL HEADS

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

D. 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.
4. EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD.

F. CONDUIT, CONDUCTORS, AND ELECTRICAL

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

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 UNLESS DIRECTED OTHERWISE.
2. STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

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.

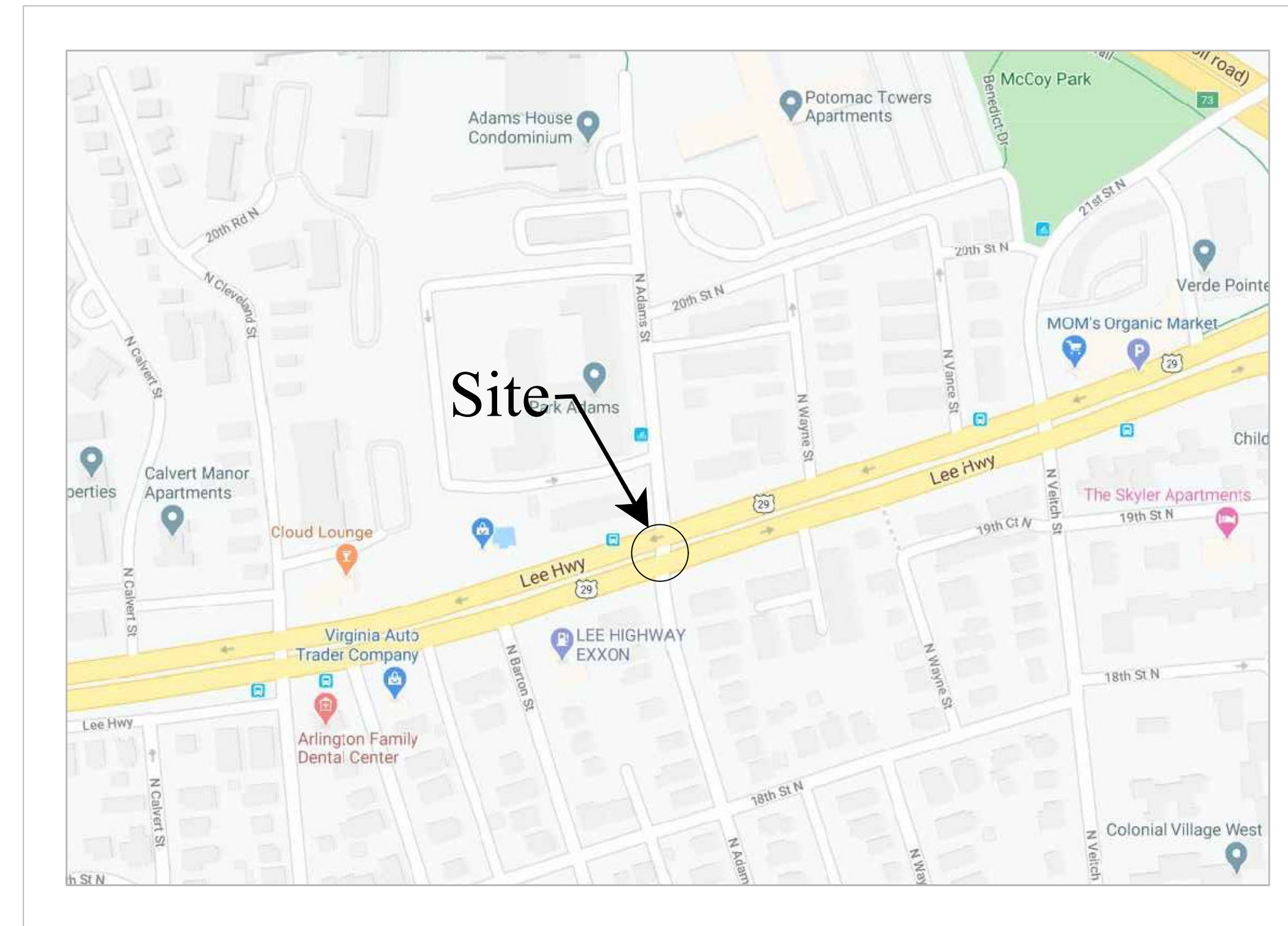
I. COMMUNICATIONS

- 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 QUALIFIED COUNTY FIBER CONTRACTORS.
3. CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
4. CONTRACTOR SHALL FURNISH FIBER PATCH PANEL FOR INSTALLATION BY THE COUNTY. FIBER PIGTAIL SHALL BE APPROPRIATE LENGTH TO ALLOW FOR 50 FEET OF SLACK IN EACH INTERMEDIATE JUNCTION BOX. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PATCH PANEL (INDICATING THE TAIL LENGTH) FOR COUNTY REVIEW PRIOR TO ORDERING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PROPOSED JUNCTION BOXES AND CONDUITS INCLUDING ALL APPURTENANCES SUCH AS GROUND RODS, TRACER WIRE, PULL TAPE, ETC.
6. ALL NEW CONDUITS SHALL HAVE PULL TAPE INSTALLED BETWEEN JUNCTION BOXES AND TRACER WIRE INSTALLED WITHIN OR BESIDE AT LEAST ONE OF THE CONDUITS. TRACER WIRE SHALL BE CONNECTED TO THE GROUND RODS INSTALLED IN THE ADJACENT JUNCTION BOXES.
7. DO NOT SPLICE TRACER WIRE.

J. INSPECTIONS

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

Location Map
Scale: N.T.S.
Vicinity



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

REVISIONS DATE

Table with 2 columns: REVISIONS, DATE. Multiple empty rows for revisions.

Table of Contents:

- T-1. COVER SHEET
T-2. TRAFFIC SIGNAL MODIFICATION PLAN
T-3. COMMUNICATION PLAN

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

Table for PROJECT MANAGER and CONSTRUCTION MANAGER with fields for NAME and DATE.

Project Name and Location

Traffic Signal Design
Cover Sheet
Lee Highway and North Adams Street
ID #144
TR07

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

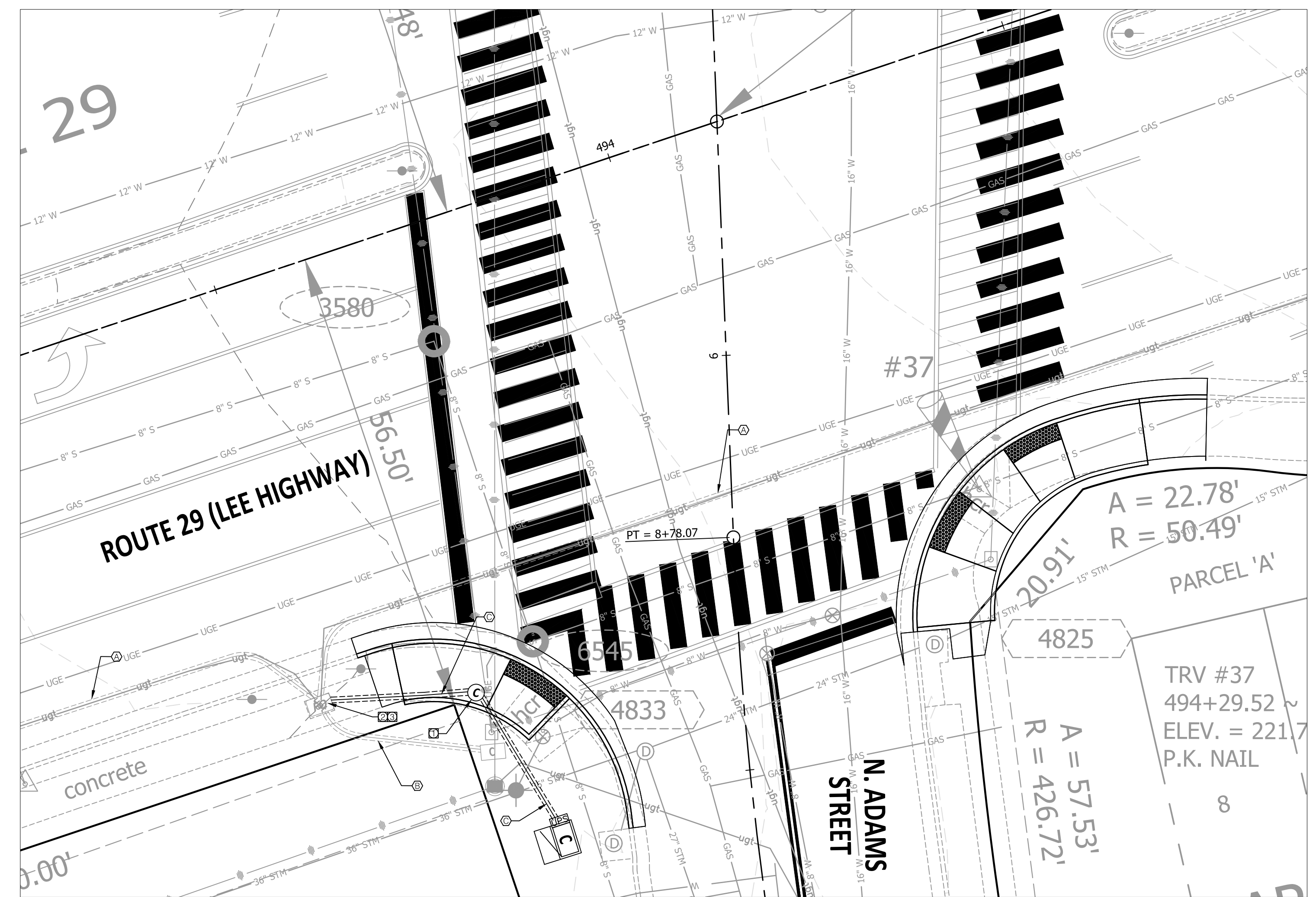
Plotted: June 28, 2021
Plotted by: marquijt

Scale: N. T. S.

Sheet T-1



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

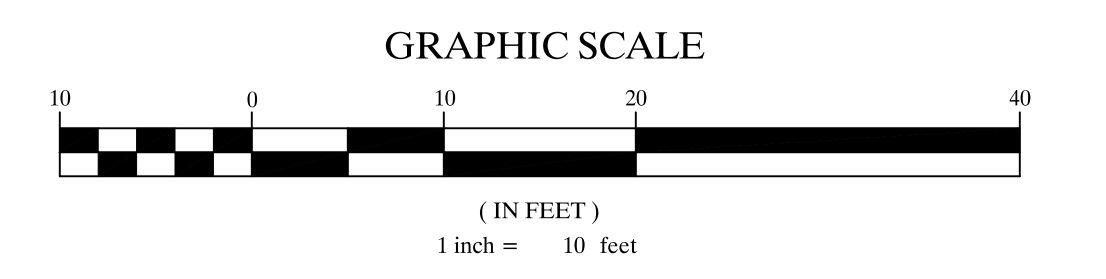


- CONDUIT & CABLE RUNS**
- (A) 2-2" CONDUIT (EXISTING)  
1- 24-STRAND FIBER OPTIC CABLE
  - (B) 1-3" CONDUIT (EXISTING)  
1- 12-STRAND FIBER OPTIC CABLE
  - (C) 1-2" CONDUIT (TRENCHING)  
1- 12-STRAND FIBER OPTIC CABLE

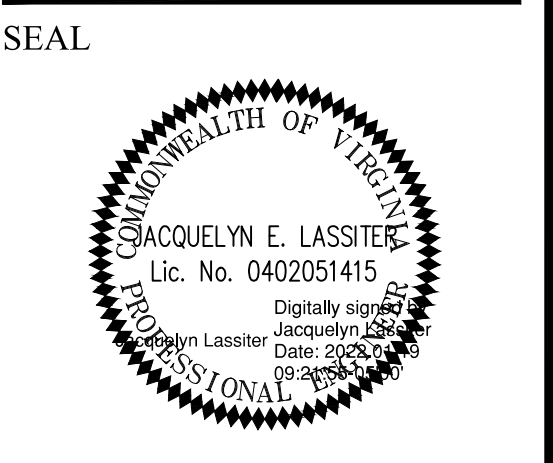
- DEMOLITION & CONSTRUCTION NOTES**
- 1 INSTALL COMMUNICATIONS JUNCTION BOX PER ARLINGTON COUNTY STD 61-03.
  - 2 TIE PROPOSED CONDUIT INTO EXISTING FO JUNCTION BOX PER STD 61-04.
  - 3 PULL BACK EXISTING FO CABLE FROM EXISTING FO JUNCTION BOX TO EXISTING CABINET & COIL IN EXISTING FO JB. ABANDON ASSOCIATED CONDUIT.

**LEGEND**

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



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**

APPROVALS	DATE
<i>John Macmillan</i> TRAFFIC SIGNAL ENGINEER	1/31/2022
<i>John Noble</i> TRAFFIC ENGINEERING MANAGER	03/18/2022
<i>John Noble</i> WATER, SEWER, STREETS BUREAU CHIEF	02.18.2022
<i>John Noble</i> T&S BUREAU CHIEF	03/18/2022
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	03/21/22

**REVISIONS**

REVISIONS	DATE

Project Name and Location  
**Traffic Signal Design**  
Communication Plan  
Lee Highway and North Adams Street  
ID: #144  
TR07

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

Plotted: January 18, 2022  
Plotted by: marquijt

Scale: 1" = 10'

Sheet  
**T-3**