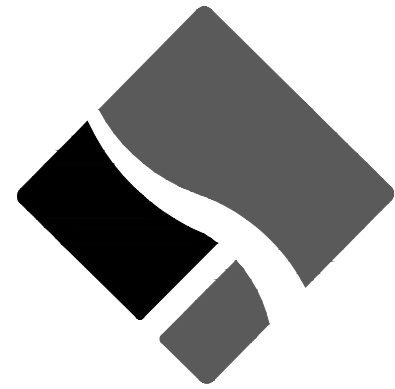




ARLINGTON
VIRGINIA

ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

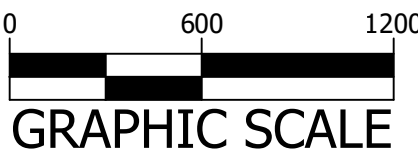
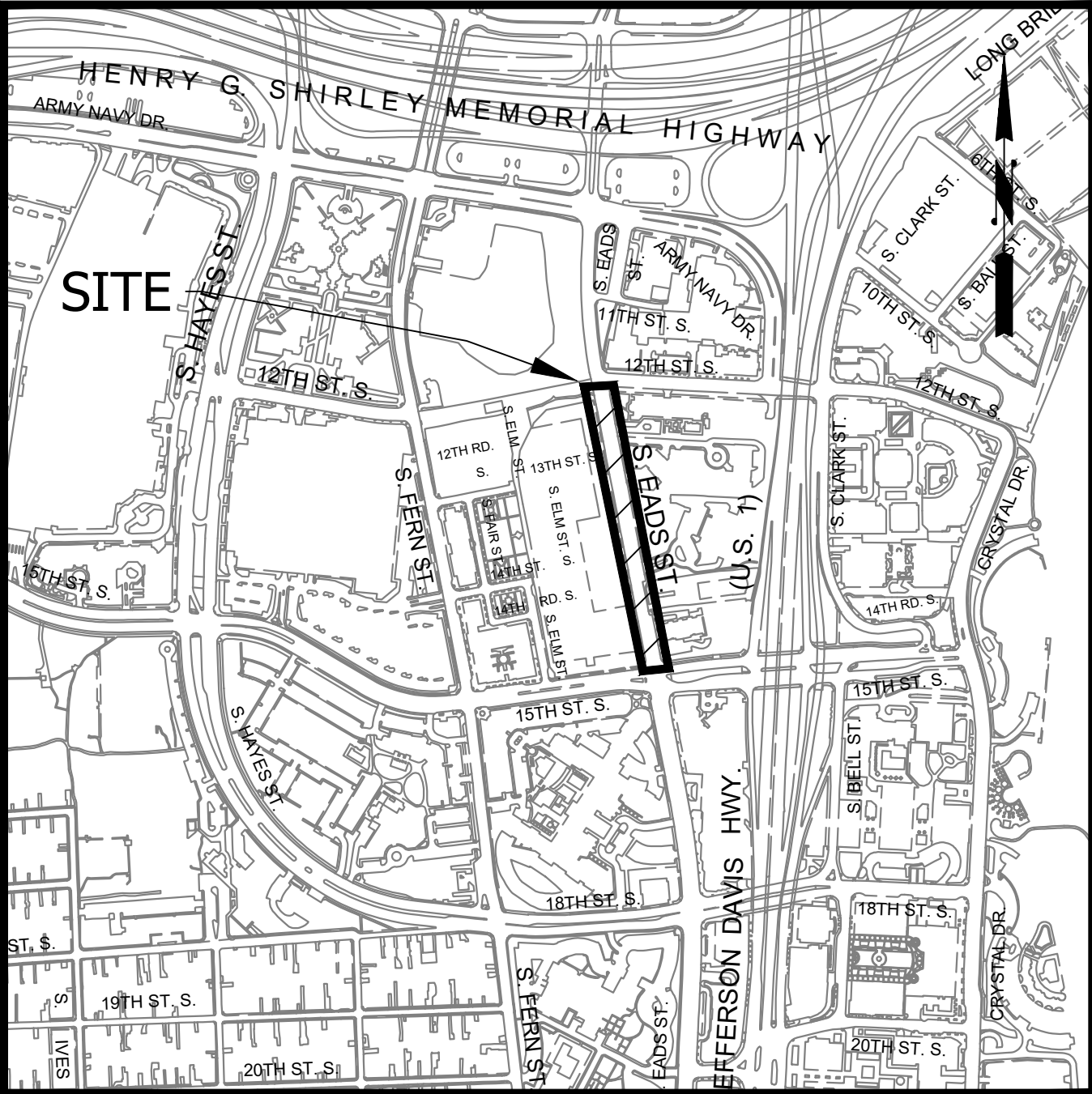
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW.ARLINGTONVA.US

OWNER
DEPARTMENT OF
TRANSPORTATION PLANNING

2100 CLARENDON BOULEVARD, SUITE 900
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW.ARLINGTONVA.US

CONTRACTOR
TO BE DETERMINED

LOCATION MAP



CONSTRUCTION DRAWINGS FOR:

S EADS STREET PHASE II STREET IMPROVEMENTS
S EADS ST (12TH ST. S. TO 15TH ST. S.)

PROJECT NUMBER: CC23

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

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

STORMWATER AND ENVIRONMENTAL PROTECTION

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

TREE PROTECTION

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

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 5 BUSINESS DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
- WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. ANY RELOCATION OR CLOSURE OF A BUS STOP SHALL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

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

FIRE DEPARTMENT NOTES:

- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 507.5.4 AND 507.5.5 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 3310 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.

Sheet List Table

Sheet Number	Sheet Title
C000.1	COVER
C002.1	DETAILS
C004.1	TYPICAL SECTIONS
C004.2	TYPICAL SECTIONS
C004.3	TYPICAL SECTIONS
C004.4	TYPICAL SECTIONS
C006.1	LEGEND
C011.1	EXISTING CONDITIONS PLAN
C011.2	EXISTING CONDITIONS PLAN
C021.1	DEMOLITION PLAN
C031.1	EROSION AND SEDIMENT CONTROL PLAN
C031.2	EROSION AND SEDIMENT CONTROL PLAN
C032.1	EROSION AND SEDIMENT CONTROL NOTES
C032.2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C032.3	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C032.4	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C035.1	STORMWATER POLLUTION PREVENTION PLAN
C035.2	STORMWATER POLLUTION PREVENTION PLAN
C041.1	PLAN AND PROFILE
C041.2	PLAN AND PROFILE
C042.1	RAMP DETAILS
C042.2	RAMP DETAILS
C042.3	RAMP DETAILS
C042.4	RAMP DETAILS
C044.1	CROSS SECTIONS STATION LAYOUT
C044.2	CROSS SECTIONS

C044.3	CROSS SECTIONS
C044.4	CROSS SECTIONS
C044.5	CROSS SECTIONS
C044.6	CROSS SECTIONS
C045.1	GEOMETRIC CONTROL PLAN
C045.2	GEOMETRIC CONTROL PLAN
C051.1	WATERLINE PLAN AND PROFILE
C071.1	STORM SEWER DRAINAGE DIVIDES
C072.1	STORM SEWER PLAN AND PROFILE
C075.1	STORM SEWER COMPUTATIONS
C081.1	SWM DRAINAGE AREA MAP
C081.2	SWM CALCULATIONS
C091.1	LANDSCAPE PLAN
C091.2	LANDSCAPE PLAN
C092.1	LANDSCAPE NOTES AND DETAILS
C092.2	LANDSCAPE NOTES AND DETAILS
C101.1	SIGNING AND PAVEMENT MARKING PLAN
C101.2	SIGNING AND PAVEMENT MARKING PLAN
C111.1	STREETLIGHT PLAN

C111.2	STREETLIGHT PLAN
C115.1	PHOTOMETRICS ANALYSIS EXHIBIT
C121.1	MAINTENANCE OF TRAFFIC
C121.2	MAINTENANCE OF TRAFFIC
C121.3	MAINTENANCE OF TRAFFIC
C121.4	MAINTENANCE OF TRAFFIC
C121.5	MAINTENANCE OF TRAFFIC
C121.6	MAINTENANCE OF TRAFFIC
C121.7	MAINTENANCE OF TRAFFIC
C122.1	MAINTENANCE OF TRAFFIC NOTES & DETAILS
C200.1	TURNING MOVEMENT EXHIBIT
C200.2	TURNING MOVEMENT EXHIBIT
C201.1	SIGHT DISTANCE PLAN AND PROFILE
C201.2	SIGHT DISTANCE PLAN AND PROFILE
C201.3	SIGHT DISTANCE PLAN AND PROFILE
C201.4	SIGHT DISTANCE PLAN AND PROFILE
C201.5	SIGHT DISTANCE PLAN AND PROFILE

SWM#

SWM# 22-0276

ADT

7,300 - SOUTH EADS STREET (12TH STREET TO 15TH STREET) - 2018 - VDOT

STREET CLASSIFICATION

SOUTH EADS STREET - MINOR ARTERIAL

POSTED SPEED

SOUTH EADS STREET - 25 MPH



ARLINGTON
VIRGINIA

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

COPYRIGHT © 2022 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS

DATE

[Signature] 9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR
[Signature] 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR
[Signature] 9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF
[Signature] 9/18/2023
ENGINEERING BUREAU CHIEF
Mark Dennis 9/15/2023
PROJECT MANAGER

REVISIONS

DATE

S EADS STREET PHASE II
CC23

S EADS ST (12TH ST. S. TO 15TH ST. S.)

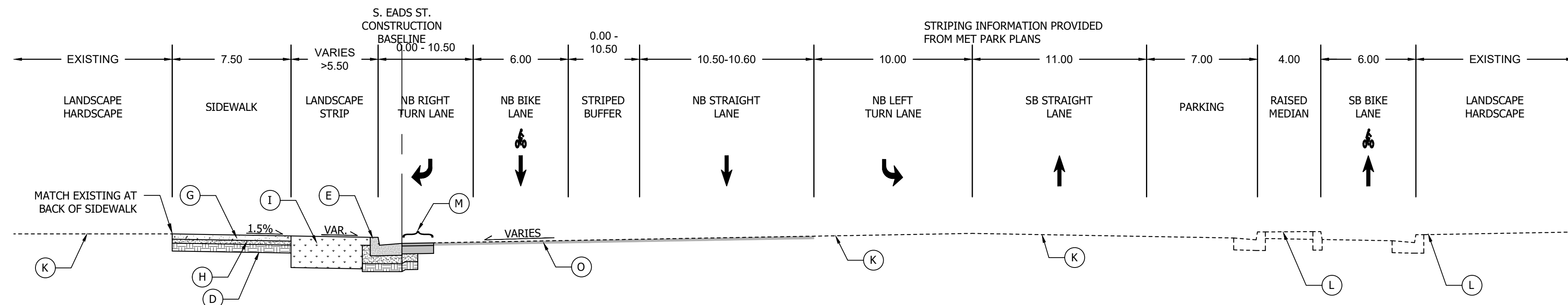
COVER

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

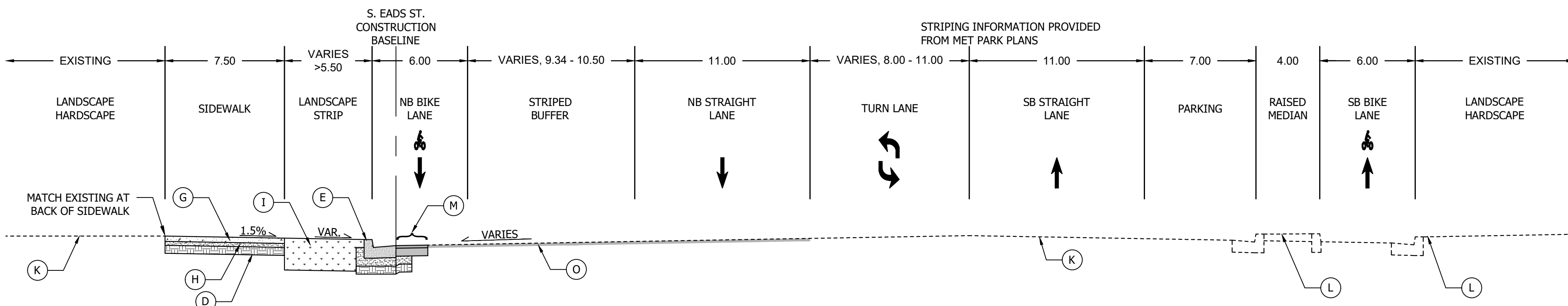
PLOTTED: SEPTEMBER 6 2023

SCALE:

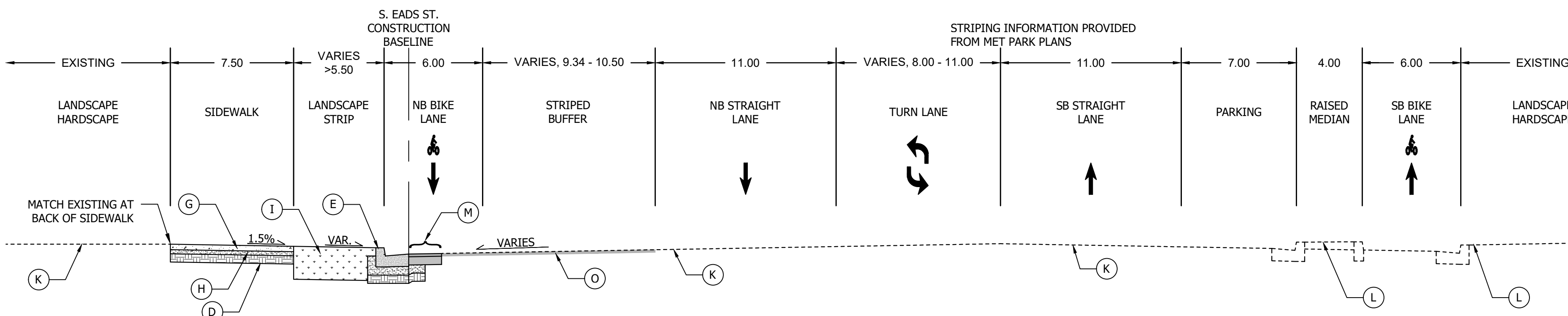
C000.1



S. EADS ST. CONSTRUCTION BASELINE
STA. 10+50.00 TO STA. 11+09.18



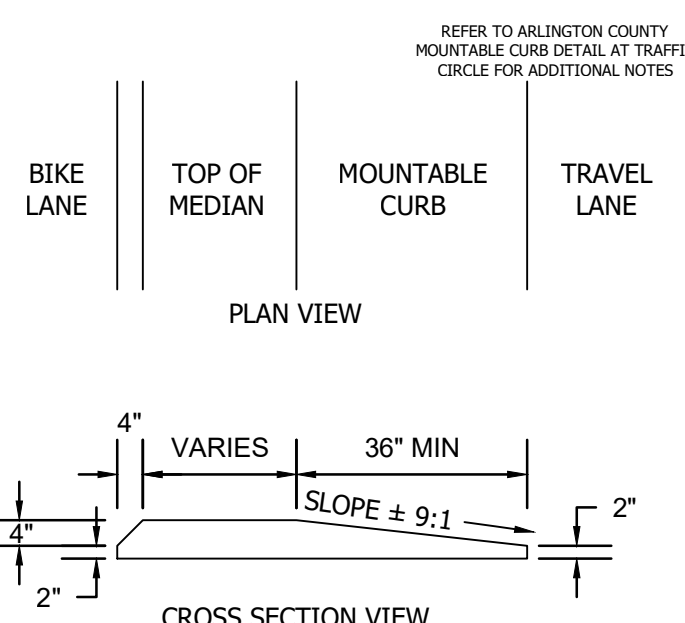
S. EADS ST. CONSTRUCTION BASELINE
STA. 11+13.11 TO STA. 12+25.53
STA. 13+18.56 TO STA. 13+66.52



S. EADS ST. CONSTRUCTION BASELINE
STA. 15+89.61 TO STA. 16+23.07
STA. 16+66.12 TO STA. 17+54.57

- A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS
- B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS
- C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS
- D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED
- E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0
- F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0
- G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0
- H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK
- I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS
- J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)
- K. EXISTING TO REMAIN
- L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS
- M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2
- N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0
- O. MILL & VARIABLE DEPTH OVERLAY
- P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



MOUNTABLE CONCRETE
MEDIAN SURFACE DETAIL



APPROVALS	DATE
<i>[Signature]</i>	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

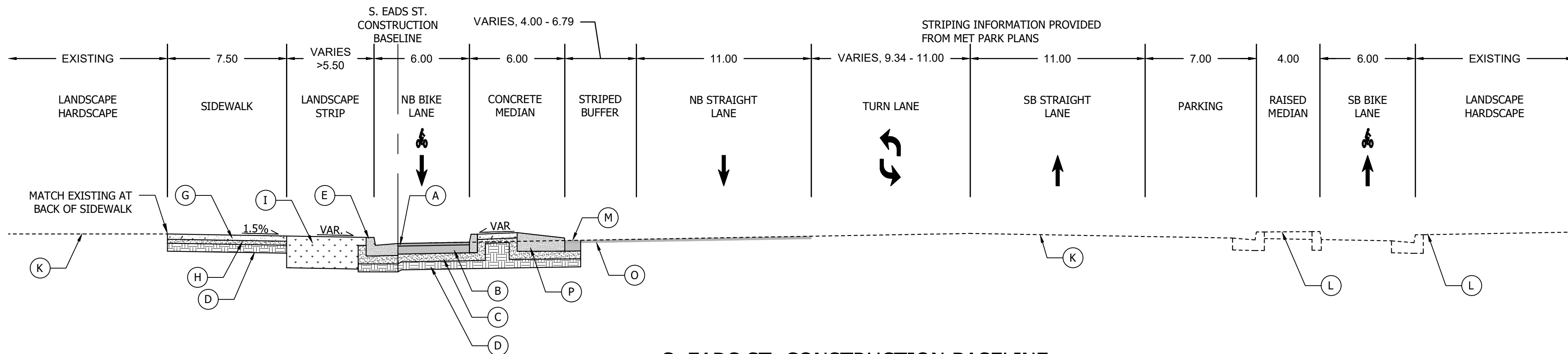
S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)
TYPICAL SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL
PLOTTED: SEPTEMBER 6 2023

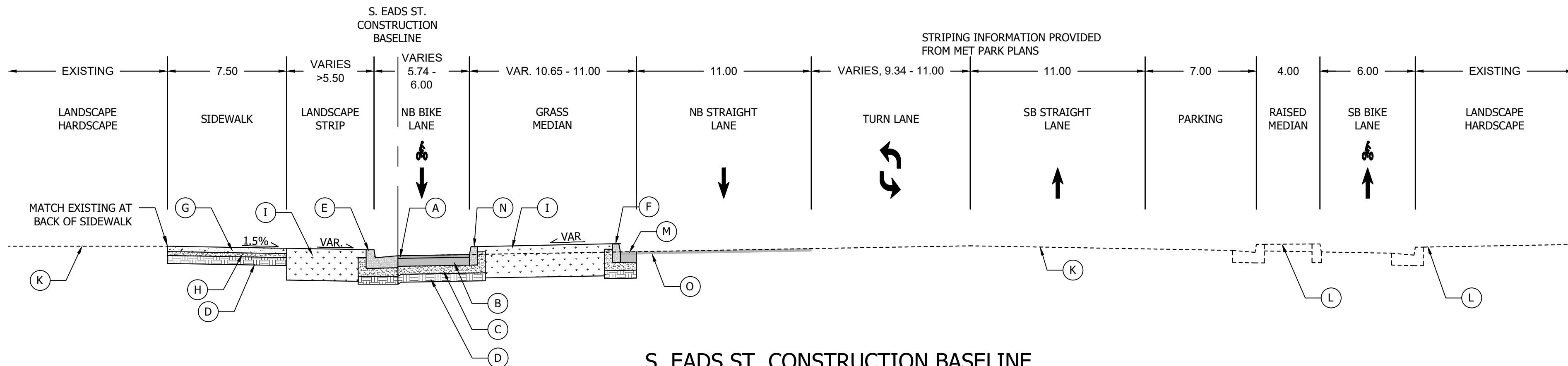
SCALE:

N.T.S.

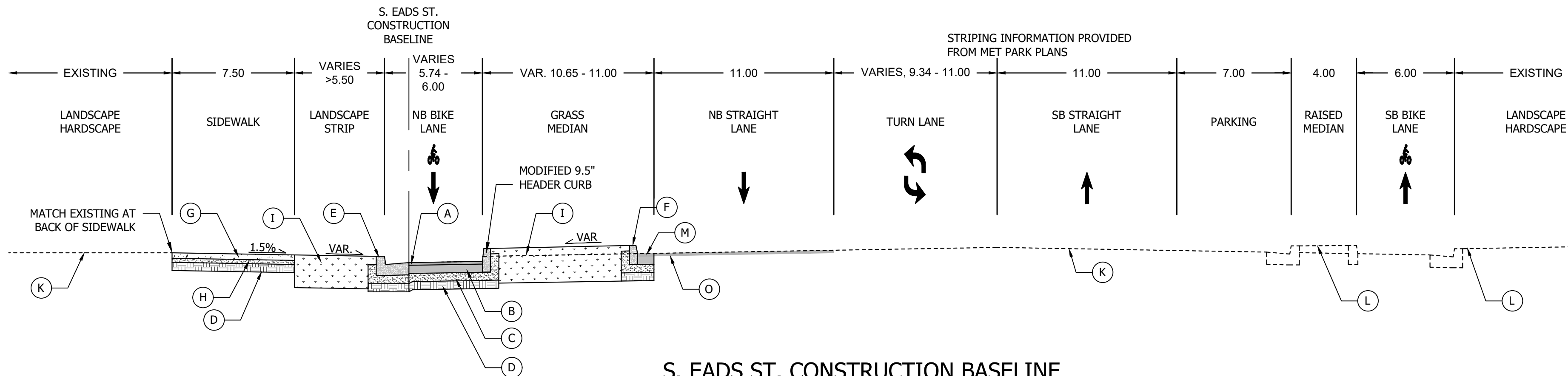
C004.1



S. EADS ST. CONSTRUCTION BASELINE
STA. 12+25.53 TO STA. 13+18.56



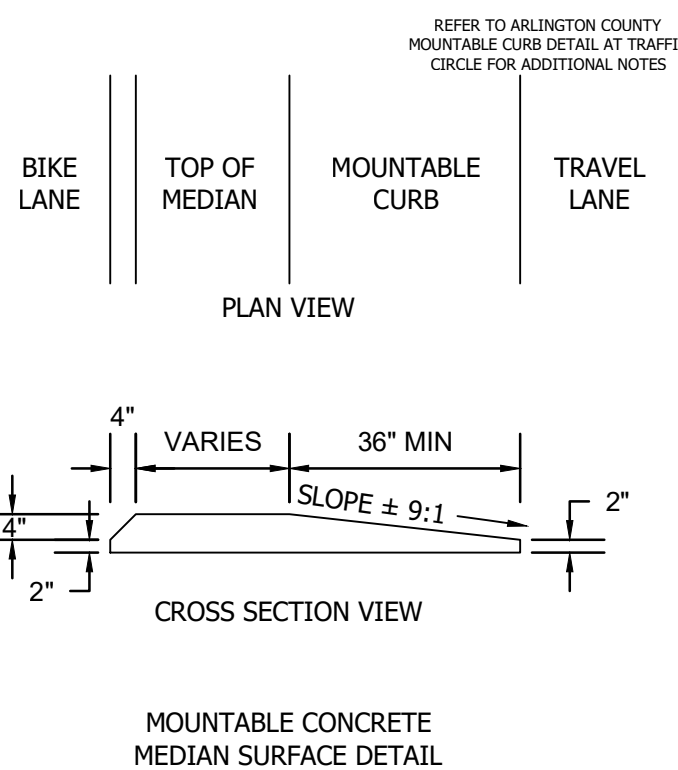
S. EADS ST. CONSTRUCTION BASELINE
STA. 13+66.52 TO STA. 13+68.53
STA. 14+59.38 TO STA. 14+63.25



S. EADS ST. CONSTRUCTION BASELINE
STA. 13+68.53 TO STA. 14+08.44
STA. 14+63.25 TO STA. 14+78.88

- A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS
- B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS
- C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS
- D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED
- E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0
- F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0
- G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0
- H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK
- I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS
- J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)
- K. EXISTING TO REMAIN
- L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS
- M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2
- N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0
- O. MILL & VARIABLE DEPTH OVERLAY
- P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



APPROVALS	DATE
<i>[Signature]</i>	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

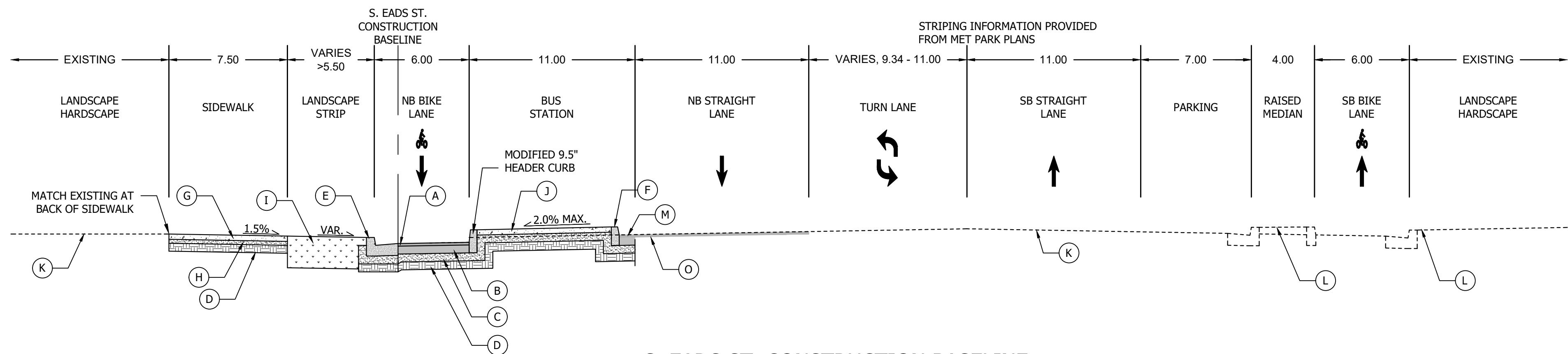
REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. - S. TO 15TH ST. - S.)
TYPICAL SECTIONS

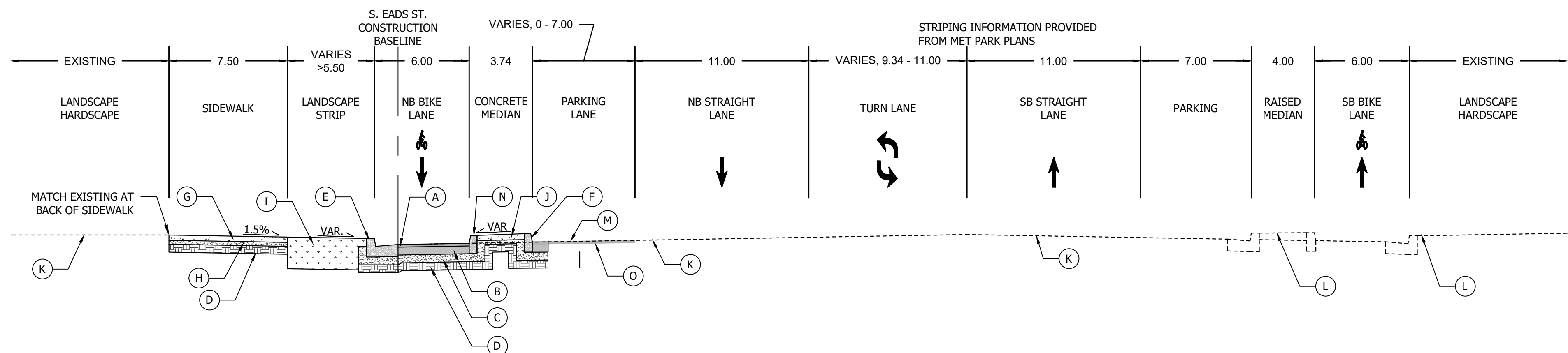
DESIGNED: NS
DRAWN: TEC
CHECKED: TL
PLOTTED: SEPTEMBER 6 2023

SCALE:

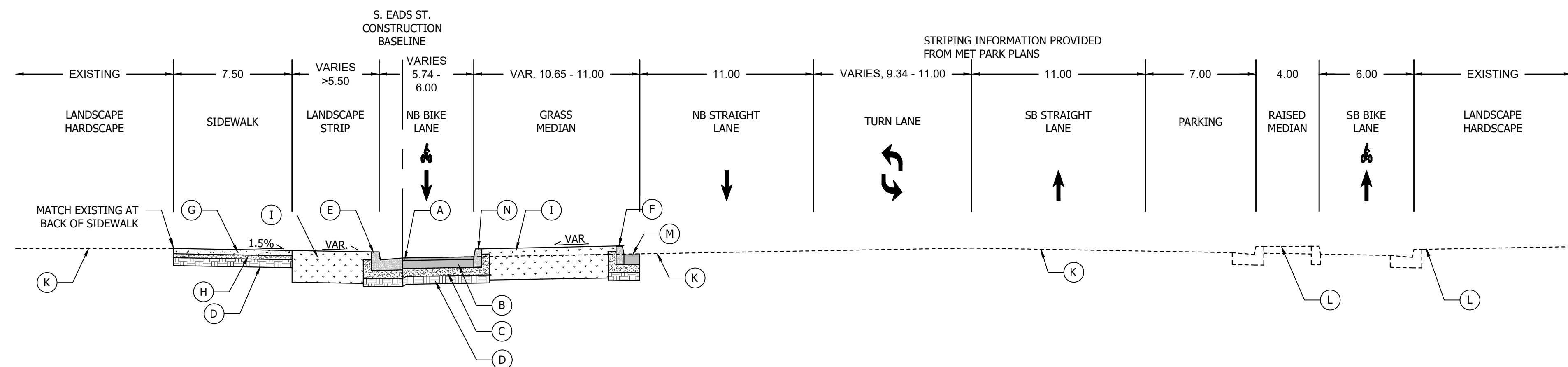
N.T.S.



S. EADS ST. CONSTRUCTION BASELINE
STA. 14+08.34 TO STA. 14+59.38



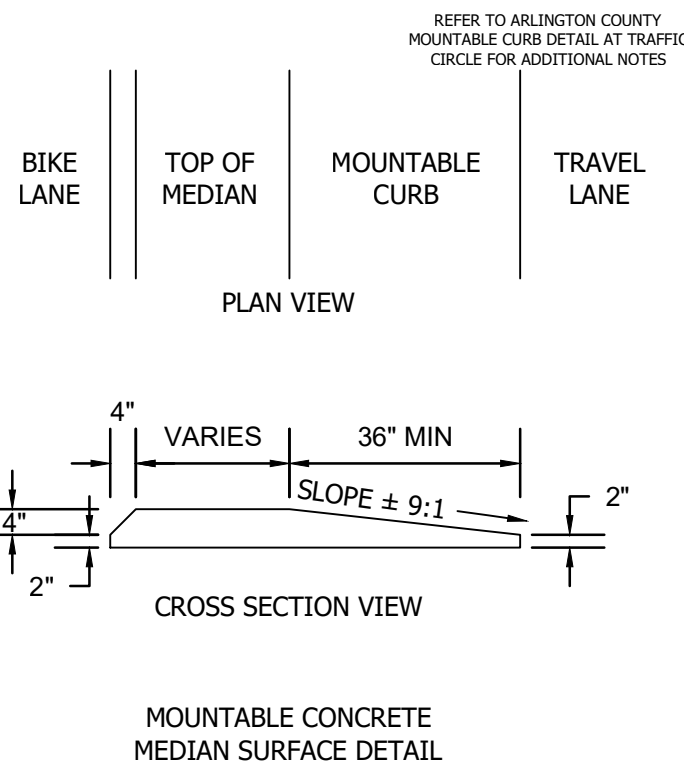
S. EADS ST. CONSTRUCTION BASELINE
STA. 14+78.88 TO STA. 15+68.35



S. EADS ST. CONSTRUCTION BASELINE
STA. 15+68.35 TO STA. 15+89.61

- A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS
- B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS
- C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS
- D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED
- E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0
- F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0
- G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0
- H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK
- I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS
- J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)
- K. EXISTING TO REMAIN
- L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS
- M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2
- N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0
- O. MILL & VARIABLE DEPTH OVERLAY
- P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



APPROVALS	DATE
<i>[Signature]</i>	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

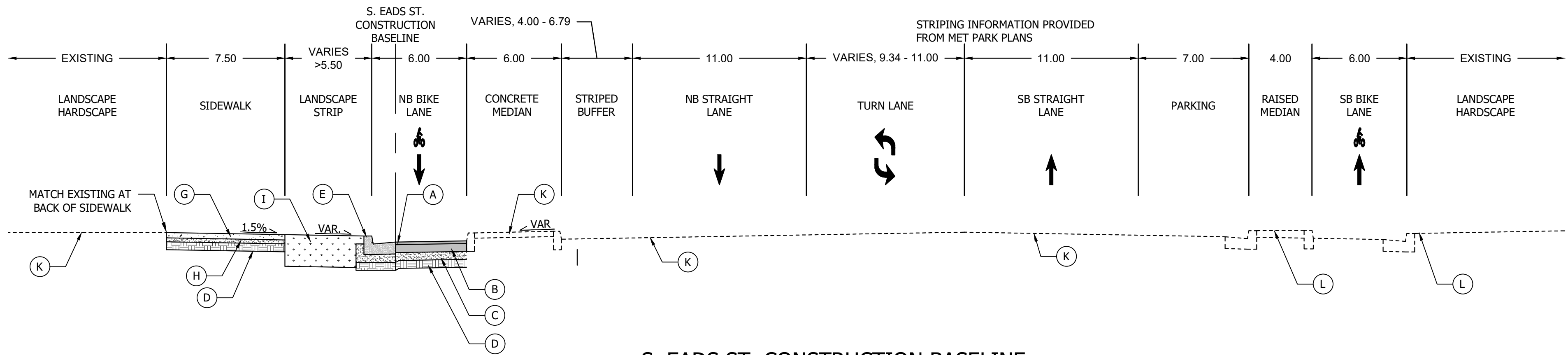
REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. - S. TO 15TH ST. - S.)
TYPICAL SECTIONS

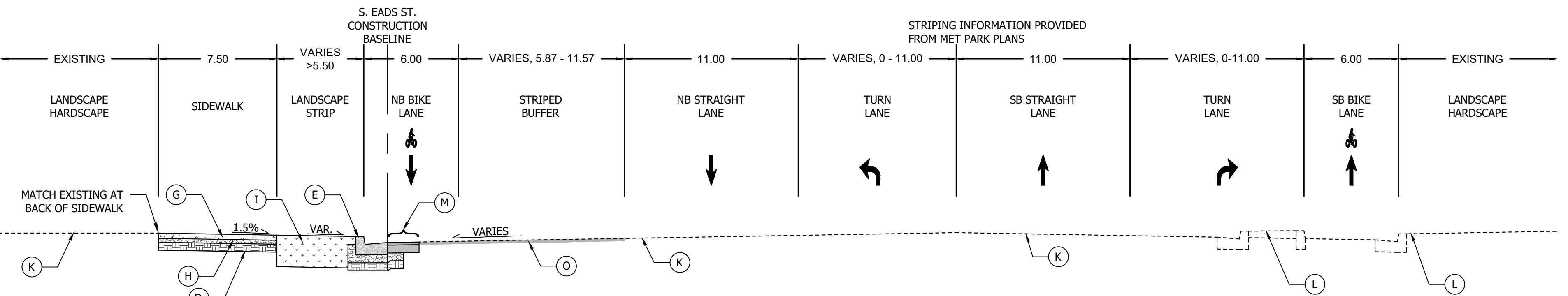
DESIGNED: NS
DRAWN: TEC
CHECKED: TL
PLOTTED: SEPTEMBER 6 2023

SCALE:

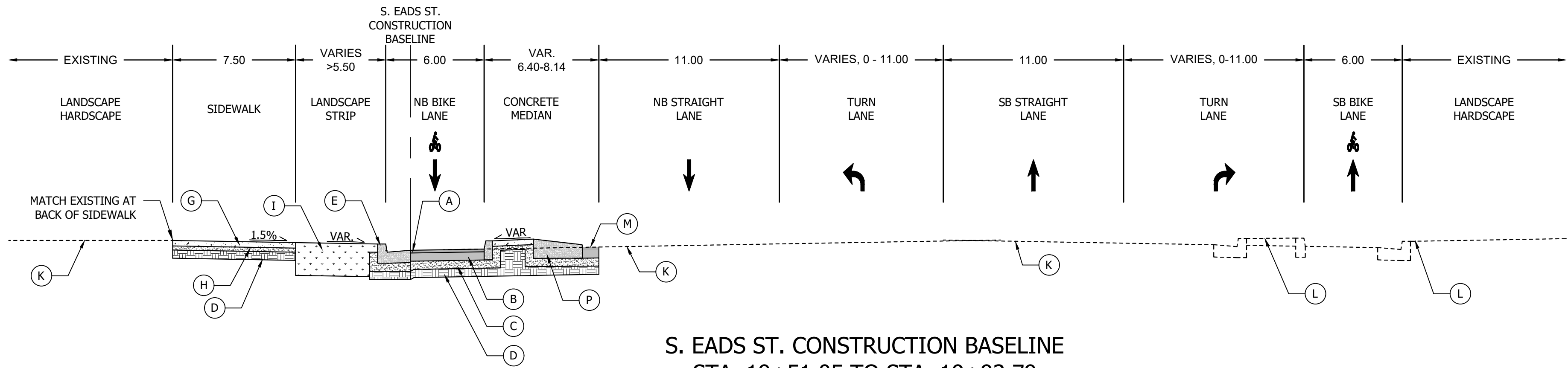
N.T.S.



S. EADS ST. CONSTRUCTION BASELINE
STA. 16+23.07 TO STA. 16+66.12



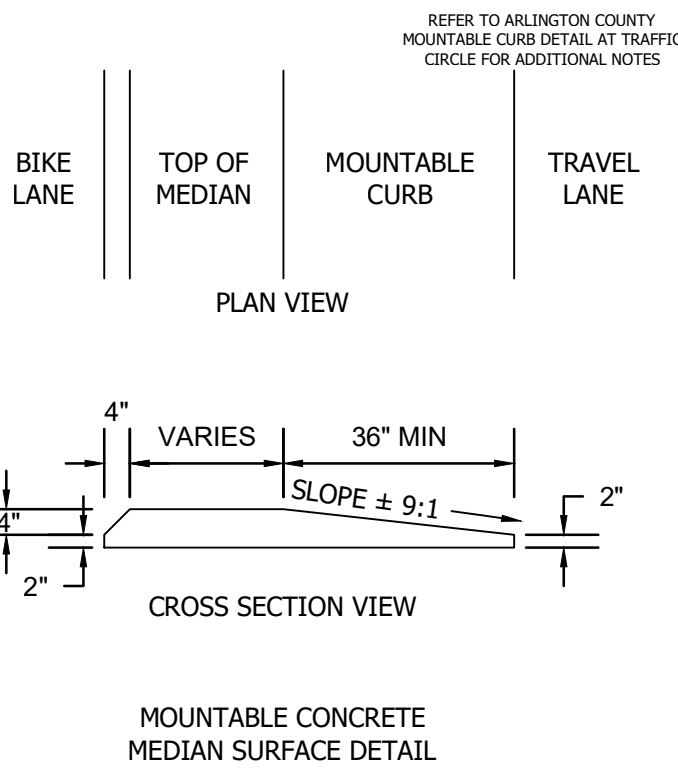
S. EADS ST. CONSTRUCTION BASELINE
STA. 18+84.78 TO STA. 19+51.05
STA. 19+93.79 TO STA. 20+61.65



S. EADS ST. CONSTRUCTION BASELINE
STA. 19+51.05 TO STA. 19+93.79

- A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS
- B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS
- C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS
- D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED
- E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0
- F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0
- G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0
- H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK
- I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS
- J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)
- K. EXISTING TO REMAIN
- L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS
- M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2
- N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0
- O. MILL & VARIABLE DEPTH OVERLAY
- P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



APPROVALS	DATE
<i>[Signature]</i>	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
<i>[Signature]</i>	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. - S. TO 15TH ST. - S.)
TYPICAL SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N.T.S.

LINETYPE LEGEND		
FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE		
CONTOURS - MAJOR, MINOR		
CRITICAL ROOT ZONE		
EASEMENT		
ELECTRIC (UNDERGROUND)		
FENCE (MATERIAL NOTED)		
FIBER OPTIC		
GAS LINE		
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)		
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE		
LIMITS OF WORK		
OVERHEAD WIRES		
PAVEMENT MINI SKIP LINE		
PAVEMENT SKIP LINE		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
ROOT PRUNING		
SANITARY SEWER		
SANITARY SEWER UNDER 20" (SIZE INCLUDED IF AVAILABLE)		
SANITARY SEWER OVER 20"		
SILT FENCE		
STORM (SIZE NOTED)		
STREAM		
STREET LIGHT CONDUIT		
TELEPHONE (UNDERGROUND)		
TREE LINE		
TREE PROTECTION FENCE		
WALL		
WATERLINE UNDER 20" (SIZE INCLUDED IF AVAILABLE)		
WATERLINE OVER 20"		

SYMBOL LEGEND	
EXISTING FEATURE	PROPOSED FEATURE
EX CABLE PEDESTAL	
EX ELECTRIC BOX	
EX FIRE HYDRANT	
EX GAS VALVE	
EX GROUND LIGHT	
EX GUY WIRES	
EX IRON PIPE OR PIN	
EX LIGHT POLE	
EX MAILBOX	
EX MONUMENT	
EX PARKING METER	
EX PAY STATION	
EX SANITARY MANHOLE	
EX STORM BASIN	
EX STORM MANHOLE	
EX TELEPHONE PEDESTAL	
EX TRAFFIC CONTROL BOX	
EX TRAFFIC SIGN	
EX TRASH CAN	
EX TRAVERSE	
EX TREES, WOODED AREA	
EX UTILITY MANHOLE TYPE INDICATED ELEC, TELE, ETC	
EX UTILITY POLE	
EX WATER MANHOLE	
EX WATER METER	
EX WATER VALVE	
EX YARD INLET	
EX BENCHMARK	
NORTH ARROW	

SYMBOL LEGEND	
EXISTING FEATURE	PROPOSED FEATURE
EX STRIPING	
EX BUS STOP	
EXISTING SANITARY STRUCTURE NUMBER	
EXISTING STORM SEWER STRUCTURE NUMBER	
PROP STRIPING	
PROP BUS STOP	
PROPOSED SANITARY SEWER STRUCTURE NUMBER	
PROPOSED STORM SEWER STRUCTURE NUMBER	
HATCH LEGEND	
PROP MILL & OVERLAY SEE TYPICAL SECTION FOR DETAILS	
PROP FULL DEPTH ASPHALT SEE TYPICAL SECTION FOR DETAILS	
PROP CONCRETE	
REPLACE & MATCH EXISTING DRIVEWAY OR LEADWALK. SEE CONSTRUCTION NOTES	
DEMOLITION AREA	

ARLINGTON VIRGINIA

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

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

TREVOR M. LANTZ
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23

S EADS ST (12TH ST. S. TO 15TH ST. S.)

LEGEND

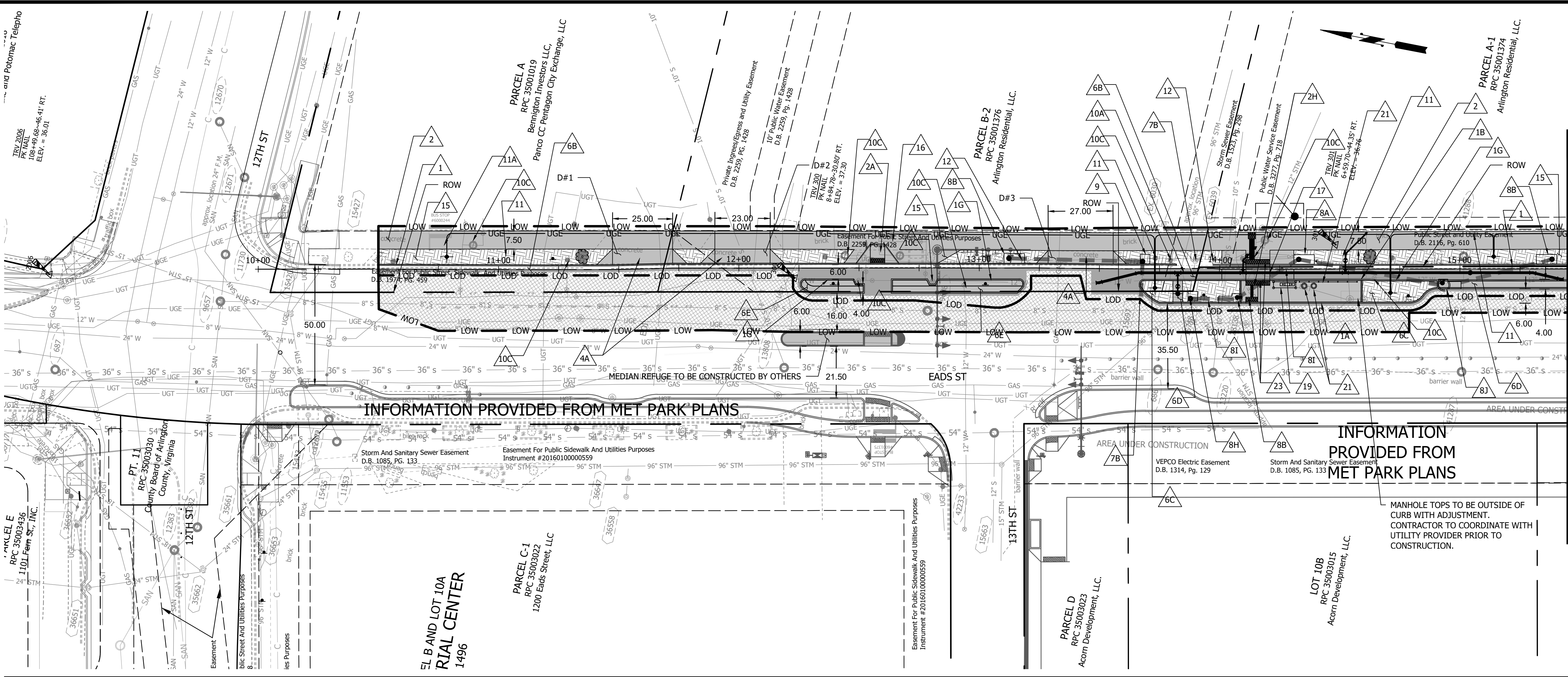
DESIGNED: NS
DRAWN: TEC
CHECKED: TL
PLOTTED: SEPTEMBER 6 2023

SCALE:

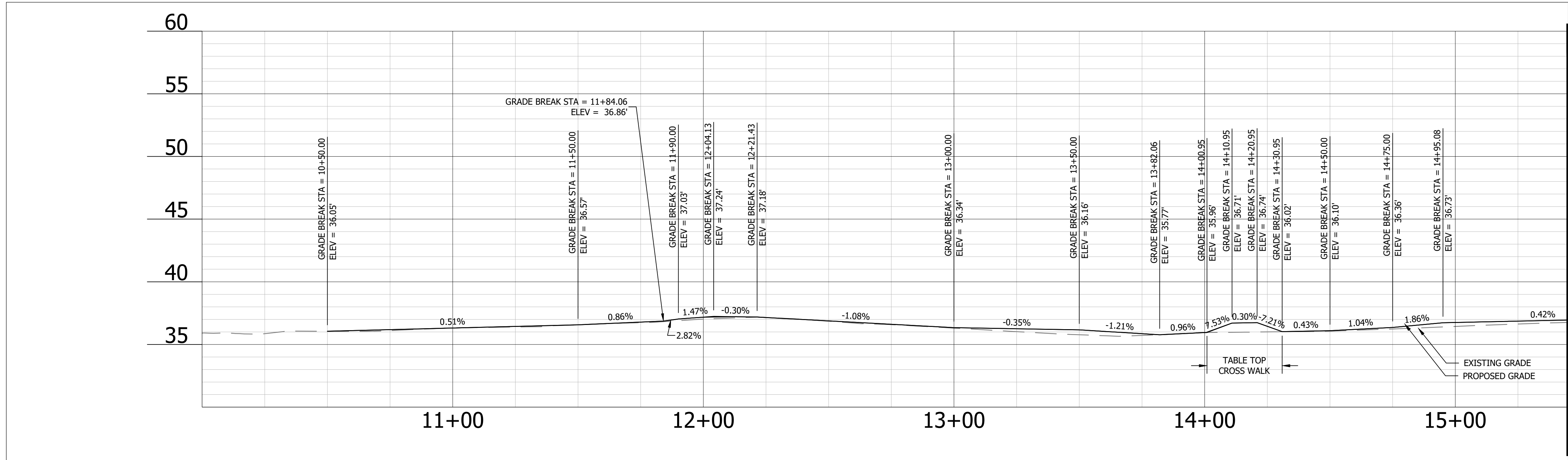
N/A

C006.1

S EADS STREET PHASE II CC23



MATCHLINE STA. 15+45.08 - SEE SHEET C041.2



MATCHLINE STA. 15+45.08 - SEE SHEET C041.2

CONSTRUCTION NOTES

- 1 PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)
- 1A PROP HEADER CURB (C-3) ARL STD (R-2.0)
- 1B PROP MODIFIED HEADER CURB, SEE DETAIL SHEET C002.1
- 1F CONNECT TO EXISTING CURB AND GUTTER
- 1G PROP ALTERNATE CURB FOR MEDIANS (C-5)
- 2 PROP SIDEWALK ARL STD (R-2.0)
- 2A PROP MODIFIED RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02) SEE CURB RAMP DETAIL SHEET #
- 2H PROP 24" WIDE LONGITUDINAL DIRECTIONAL INDICATORS
- 4A PROP COMMERCIAL CONCRETE DRIVEWAY ENTRANCE (STANDARD) ARL STD (R-2.4A)
- 6B PROPOSED FULL DEPTH ASPHALT PAVEMENT. SEE TYPICAL SECTIONS FOR DEPTH
- 6C PROPOSED LANDSCAPE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6D PROPOSED CONCRETE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6E MOUNTABLE CONCRETE MEDIAN SURFACE. REFER TO DETAIL ON SHEET C004.1
- 7A CONVERT EXISTING CATCH BASIN TO STORM MANHOLE PER ARL CONSTR SPEC 02505 - 4.2
- 7B ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE PER ARL CONSTR SPEC 02500 - 3.4
- 7C CONNECT PROPOSED PIPE TO EXISTING STRUCTURE PER ARL CONSTR SPEC 02505 - 3.5
- 8A PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SAGS, CB-2A PER ARL STD (D-1.3)
- 8B PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SLOPES, CB-2B PER ARL STD (D-1.4)
- 8H REPLACE EXISTING MANHOLE FRAME AND COVER. ADJUST NEW TOP TO GRADE
- 8I PROP 15" RCP STORMWATER PIPE, ARL CONSTR SPEC 02505
- 8J PROPOSED CURB DROP INLET VDOT STD. DI-3B
- 9 PROP STANDARD MANHOLE FRAME AND COVER MH-1, VDOT ROAD & BRIDGE STANDARDS (106.02)
- 10 RELOCATE EXISTING WATER METER AND INSTALL FRAME AND COVER PROVIDED BY COUNTY ARL STD (W-8.0 AND W-9.0)
- 10A PROP. RELOCATED 12" WATER MAIN
- 10B REMOVE EXISTING FIRE HYDRANT
- 10C ADJUST EXISTING WATER APPARATUS AROUND PROPOSED IMPROVEMENTS
- 11 NEW COUNTY STANDARD OR DECORATIVE LIGHT OR COLONIAL LIGHT (TYP) ARLINGTON COUNTY STANDARD (14080, 14110, 14112)
- 11A NEW ELECTRIC CONDUIT (TYP) ARLINGTON COUNTY STANDARD (14030)
- 12 RELOCATE EXISTING SIGN
- 14 RELOCATE UTILITY POLE AND ALL GUYS BY OTHERS
- 15 PROPOSED LANDSCAPING. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 16 TRAFFIC SIGNAL AND PED PUSH BUTTON. WORK TO BE PERFORMED BY OTHERS
- 17 PROPOSED TABLETOP ASPHALT BIKE LANE WITH RAISED CROSSWALK
- 18 RELOCATE BUS STOP SIGN # WITH SQUARE TUBE SIGN POST (STP-1 MOD) PRE VDOT ROAD AND BRIDGE STANDARDS (1321.13).
- 19 PROPOSED ECLIPSE 4'X10' CANTILEVER BUS STOP SHELTER WITH BUS SHELTER PAD PER ARLINGTON COUNTY STANDARD (R-2.10). BUS SHELTER, SHELTER BENCH, AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 20 PROPOSED ORNAMENTAL HANDRAIL PER ARLINGTON COUNTY STANDARD (R-3.2).
- 21 PROPOSED TRASH AND RECYCLING RECEPTACLES (ARLINGTON COUNTY SPEC. 10530). RECEPTACLES AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 22 PROPOSED DETECTABLE WARNING SURFACE PER ARLINGTON COUNTY SPECIFICATIONS
- 23 PROPOSED DETECTABLE WARNING SURFACE CAST IN PLACE



COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

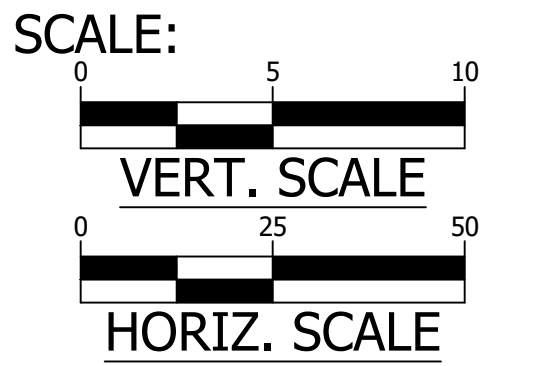


APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)
PLAN AND PROFILE

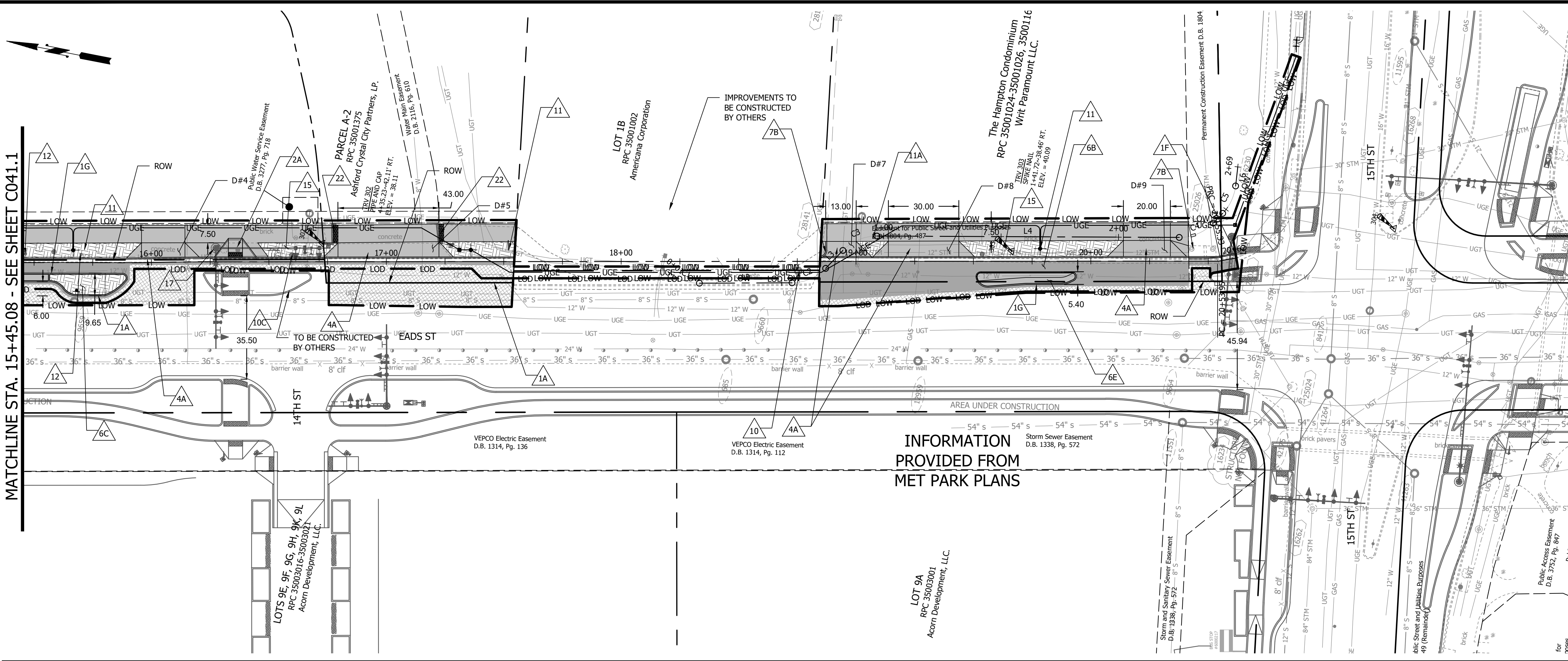
DESIGNED: NS
DRAWN: TEC
CHECKED: TL
PLOTTED: SEPTEMBER 7 2023



C041.1

MATCHLINE STA. 15+45.08 - SEE SHEET C041.1

MATCHLINE STA. 15+45.08 - SEE SHEET C041.1



INFORMATION
PROVIDED FROM
MET PARK PLANS

LOT 9A
RPC 35001001
Acorn Development, LLC

The Hampton Condominium
RPC 35001024-35001026, 35001116
Writ Paramount LLC.

LOT 1B
RPC 35001002
Americana Corporation

PARCEL A-2
RPC 35001375
Ashford Crystal City Partners, LP.

Public Water Service Easement
D.B. 1277, Pg. 718

LOTS 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J
RPC 35003016-35003021
Acorn Development, LLC

VEPCO Electric Easement
D.B. 1314, Pg. 136

VEPCO Electric Easement
D.B. 1314, Pg. 112

Storm Sewer Easement
D.B. 1338, Pg. 572

Sanitary Sewer Easement
D.B. 1126, Pg. 572

Permanent Construction Easement D.B. 1884

for 2005

CONSTRUCTION NOTES

- 1 PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)
- 1A PROP HEADER CURB (C-3) ARL STD (R-2.0)
- 1B PROP MODIFIED HEADER CURB, SEE DETAIL SHEET C002.1
- 1F CONNECT TO EXISTING CURB AND GUTTER
- 1G PROP ALTERNATE CURB FOR MEDIANS (C-5)
- 2 PROP SIDEWALK ARL STD (R-2.0)
- 2A PROP MODIFIED RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02) SEE CURB RAMP DETAIL SHEET #
- 2H PROP 24" WIDE LONGITUDINAL DIRECTIONAL INDICATORS
- 4A PROP COMMERCIAL CONCRETE DRIVEWAY ENTRANCE (STANDARD) ARL STD (R-2.4A)
- 6B PROPOSED FULL DEPTH ASPHALT PAVEMENT. SEE TYPICAL SECTIONS FOR DEPTH
- 6C PROPOSED LANDSCAPE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6D PROPOSED CONCRETE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6E MOUNTABLE CONCRETE MEDIAN SURFACE. REFER TO DETAIL ON SHEET C004.1
- 7A CONVERT EXISTING CATCH BASIN TO STORM MANHOLE PER ARL CONSTR SPEC 02505 - 4.2
- 7B ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE PER ARL CONSTR SPEC 02500 - 3.4
- 7C CONNECT PROPOSED PIPE TO EXISTING STRUCTURE PER ARL CONSTR SPEC 02505 - 3.5
- 8A PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SAGS, CB-2A PER ARL STD (D-1.3)
- 8B PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SLOPES, CB-2B PER ARL STD (D-1.4)
- 8H REPLACE EXISTING MANHOLE FRAME AND COVER. ADJUST NEW TOP TO GRADE
- 8I PROP 15" RCP STORMWATER PIPE, ARL CONSTR SPEC 02505
- 8J PROPOSED CURB DROP INLET VDOT STD. DI-3B
- 9 PROP STANDARD MANHOLE FRAME AND COVER MH-1, VDOT ROAD & BRIDGE STANDARDS (106.02)
- 10 RELOCATE EXISTING WATER METER AND INSTALL FRAME AND COVER PROVIDED BY COUNTY ARL STD (W-8.0 AND W-9.0)
- 10A PROP. RELOCATED 12" WATER MAIN
- 10B REMOVE EXISTING FIRE HYDRANT
- 10C ADJUST EXISTING WATER APPARATUS AROUND PROPOSED IMPROVEMENTS
- 11 NEW COUNTY STANDARD OR DECORATIVE LIGHT OR COLONIAL LIGHT (TYP) ARLINGTON COUNTY STANDARD (14080, 14110, 14112)
- 11A NEW ELECTRIC CONDUIT (TYP) ARLINGTON COUNTY STANDARD (14030)
- 12 RELOCATE EXISTING SIGN
- 14 RELOCATE UTILITY POLE AND ALL GUYS BY OTHERS
- 15 PROPOSED LANDSCAPING. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 16 TRAFFIC SIGNAL AND PED PUSH BUTTON. WORK TO BE PERFORMED BY OTHERS
- 17 PROPOSED TABLETOP ASPHALT BIKE LANE WITH RAISED CROSSWALK
- 18 RELOCATE BUS STOP SIGN # WITH SQUARE TUBE SIGN POST (STP-1 MOD) PRE VDOT ROAD AND BRIDGE STANDARDS (1321.13).
- 19 PROPOSED ECLIPSE 4'X10' CANTILEVER BUS STOP SHELTER WITH BUS SHELTER PAD PER ARLINGTON COUNTY STANDARD (R-2.10). BUS SHELTER, SHELTER BENCH, AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 20 PROPOSED ORNAMENTAL HANDRAIL PER ARLINGTON COUNTY STANDARD (R-3.2).
- 21 PROPOSED TRASH AND RECYCLING RECEPTACLES (ARLINGTON COUNTY SPEC. 10530). RECEPTACLES AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 22 PROPOSED DETECTABLE WARNING SURFACE PER ARLINGTON COUNTY SPECIFICATIONS
- 23 PROPOSED DETECTABLE WARNING SURFACE CAST IN PLACE



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

COPYRIGHT © 2022 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
PROJECT MANAGER	9/15/2023

REVISIONS DATE

REVISIONS	DATE

S EADS STREET PHASE II
CC23

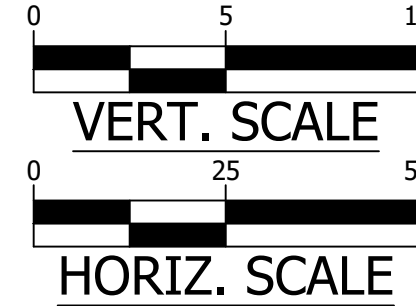
S EADS ST (12TH ST. S. TO 15TH ST. S.)

PLAN AND PROFILE

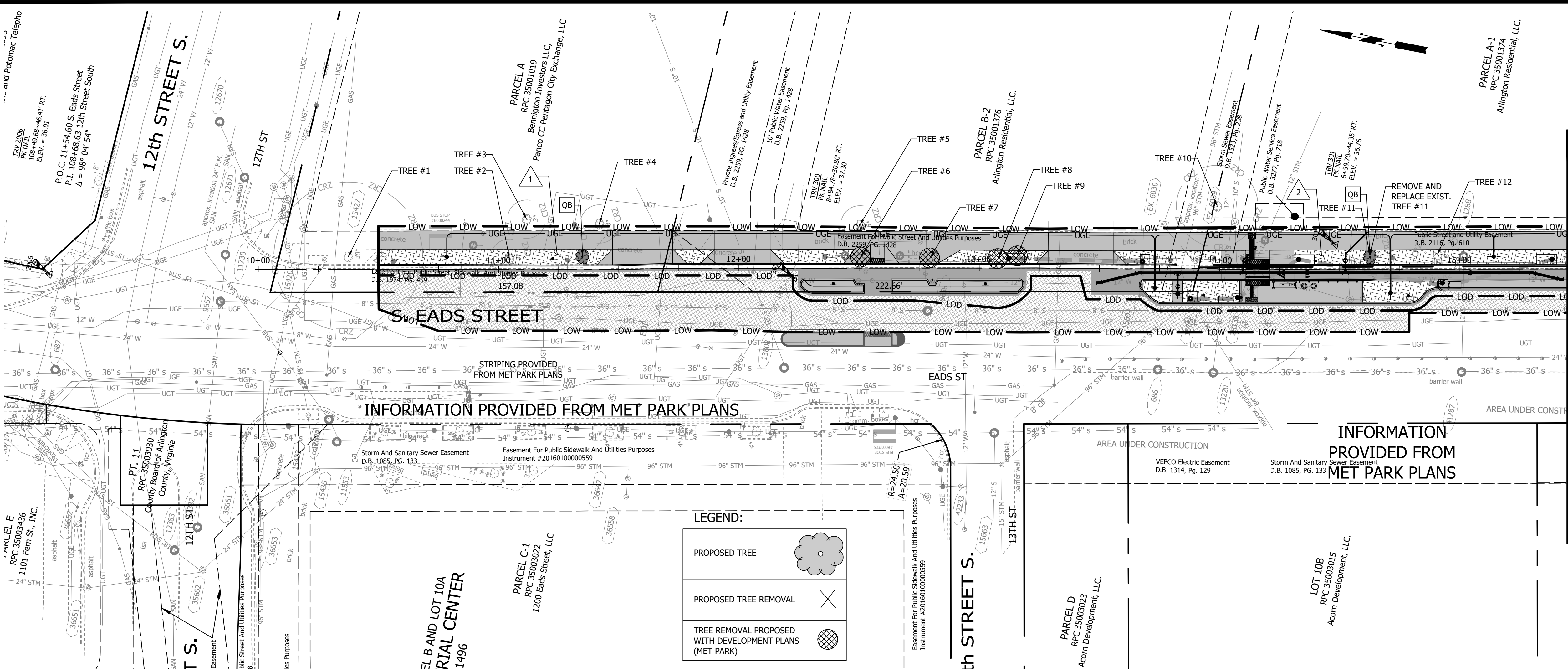
DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:



C041.2



MATCHLINE STA. 15+45.08 - SEE SHEET C041.2

PROPOSED PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
QB	2	Quercus Bicolor	SWAMP WHITE OAK	2-2 1/4" cal.	B&B	SINGLE STRAIGHT LEADER

SOIL VOLUME CALCULATION:

LOCATION: TREE PLANTING PIT
NUMBER OF TREES: ONE (1)
AREA OF STRIP: 608 SF
DEPTH: 3 FT
SOIL VOLUME PER TREE: (608 SF x 3 FT) / 2 TREES = 912 CF/TREE

TARGET SOIL VOLUME PER TREE: 900 CF/TREE

SOIL VOLUME CALCULATION:

LOCATION: TREE PLANTING PIT
NUMBER OF TREES: ONE (1) PROPOSED AND THREE (3) EXISTING
AREA OF STRIP: 955 SF
DEPTH: 3 FT
SOIL VOLUME PER TREE: (955 SF x 3 FT) / 4 TREES = 726 CF/TREE

TREE PLANTING NOTES

- CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING, TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION. CONTRACTOR TO PREPARE TREE PLANTING STRIPS FOR THE REPLACEMENT TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 3293000.3A, 329300.3B.
 - ALL PLANTS TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION
 - ALL PLANTS TO BE INSTALLED PER CONTRACT SPECIFICATIONS
 - THE CONTRACTOR IS RESPONSIBLE FOR CALLING MS. UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
- CONTRACTOR TO PREPARE STREET TREE PLANTING PITS ACCORDING TO THE ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.3A AND 329300.3B
- CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE DISTURBING EXISTING TREE PLANTING PITS, TO ENSURE THAT WORK IN PITS WILL LIMIT IMPACTS TO EXISTING TREES AND ROOTS.
- CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES)
- TREE INVENTORY LOCATED ON SHEET C092.1
- NO DRAINAGE IS REQUIRED



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

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR 9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF 9/18/2023
ENGINEERING BUREAU CHIEF 9/18/2023
Mark Dennis 9/15/2023
PROJECT MANAGER

REVISIONS DATE

S EADS STREET PHASE II
CC23

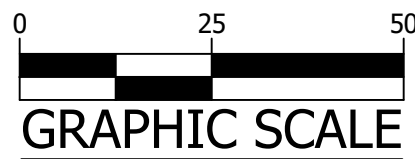
S EADS ST (12TH ST. S. TO 15TH ST. S.)

LANDSCAPE PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

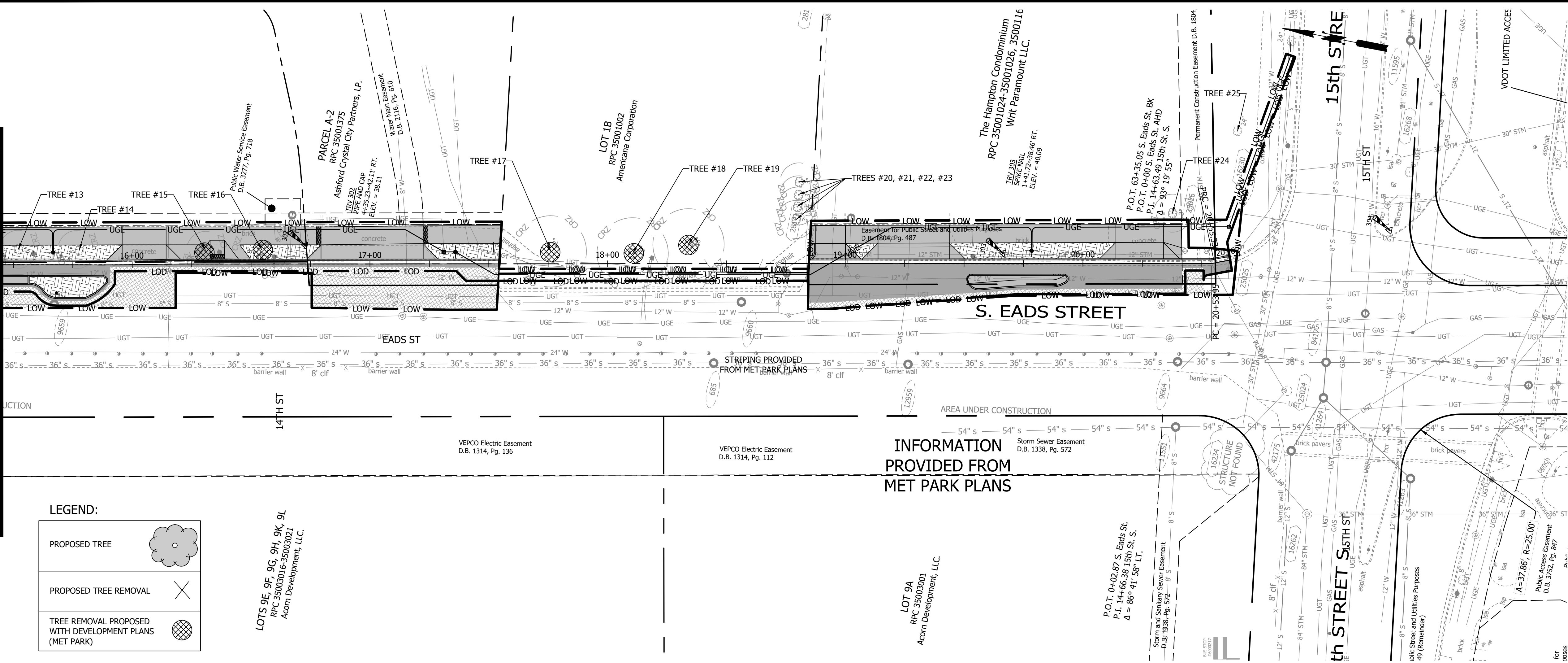
PLOTTED: SEPTEMBER 6 2023

SCALE:



C091.1

MATCHLINE STA. 15+45.08 - SEE SHEET C041.2



LEGEND:

PROPOSED TREE	
PROPOSED TREE REMOVAL	
TREE REMOVAL PROPOSED WITH DEVELOPMENT PLANS (MET PARK)	

LOTS 9E, 9F, 9G, 9H, 9K, 9L
RPC 350016-350021
Acorn Development, LLC.

PROPOSED PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
QB	1	Quercus Bicolor	SWAMP WHITE OAK	2-2 1/2 cal.	B&B	SINGLE STRAIGHT LEADER

TREE PLANTING NOTES

- CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING, TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION.
CONTRACTOR TO PREPARE TREE PLANTING STRIPS FOR THE REPLACEMENT TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 3293000.3A, 329300.3B.
 - ALL PLANTS TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION
 - ALL PLANTS TO BE INSTALLED PER CONTRACT SPECIFICATIONS
 - THE CONTRACTOR IS RESPONSIBLE FOR CALLING MS. UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
- CONTRACTOR TO PREPARE STREET TREE PLANTING PITS ACCORDING TO THE ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.3A AND 329300.3B
- CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE DISTURBING EXISTING TREE PLANTING PITS, TO ENSURE THAT WORK IN PITS WILL LIMIT IMPACTS TO EXISTING TREES AND ROOTS.
- CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES)
- TREE INVENTORY LOCATED ON SHEET C092.1
- NO DRAINAGE IS REQUIRED



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

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
	9/15/2023
MARK DENNIS	
PROJECT MANAGER	

REVISIONS DATE

S EADS STREET PHASE II

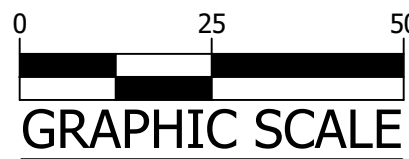
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

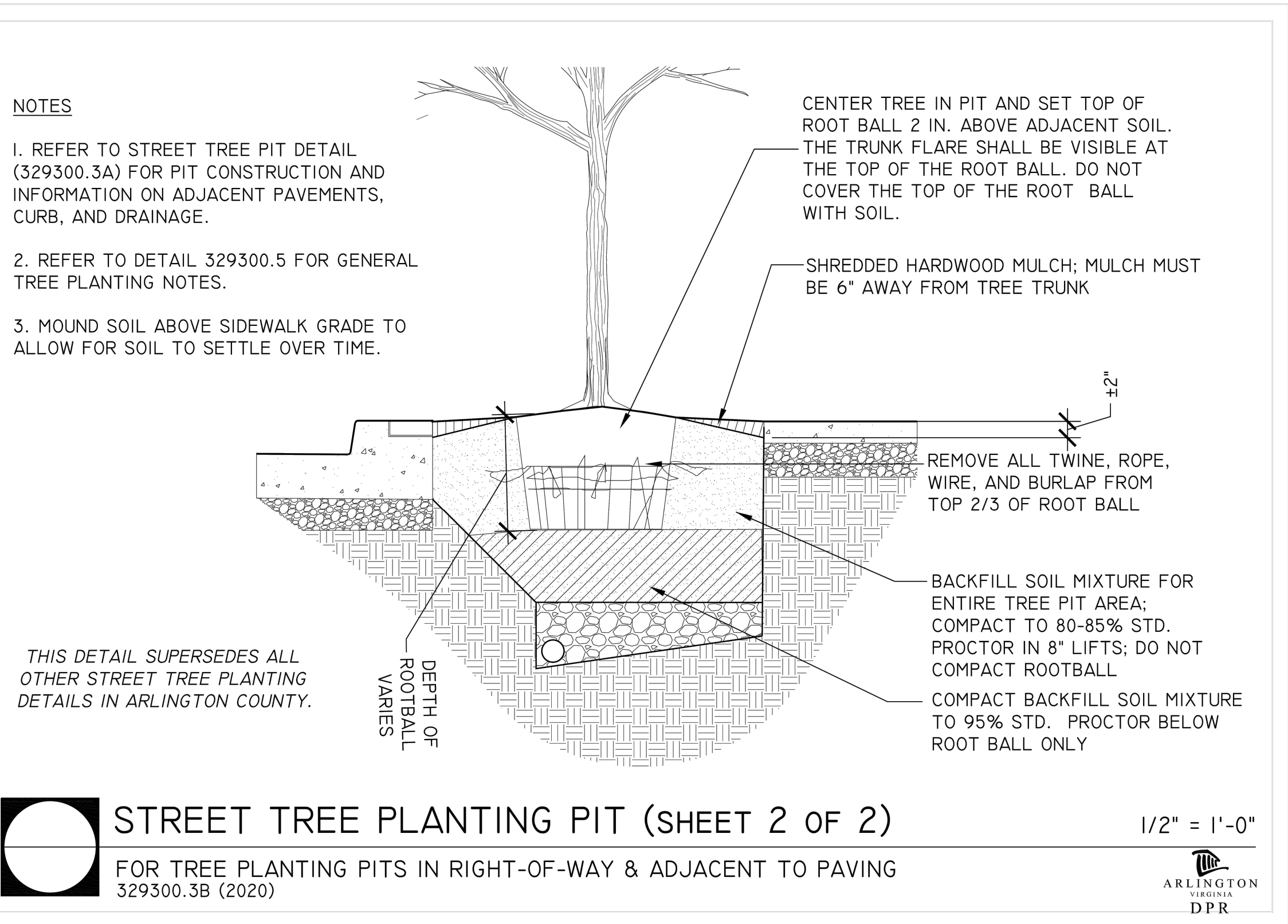
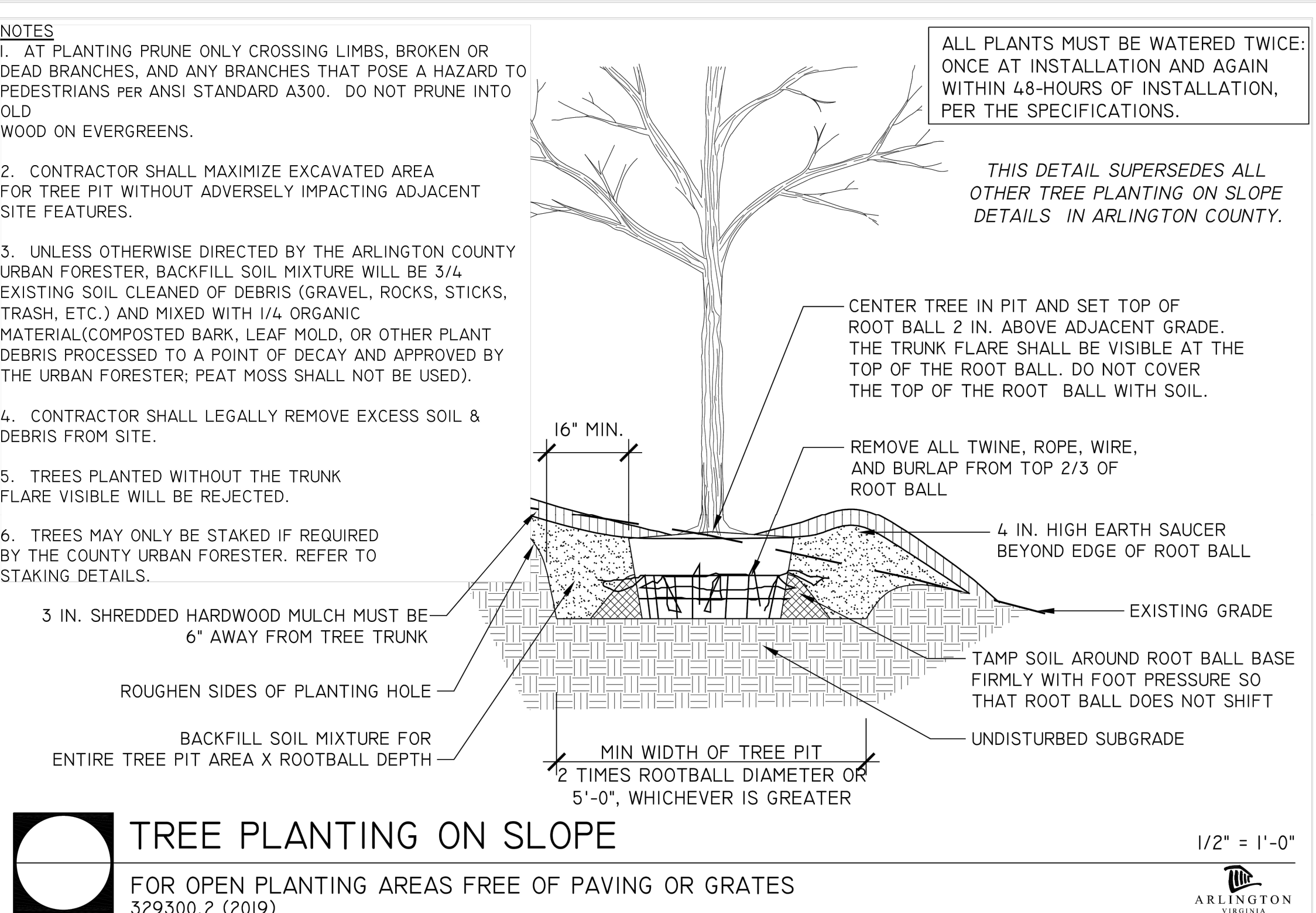
LANDSCAPE PLAN

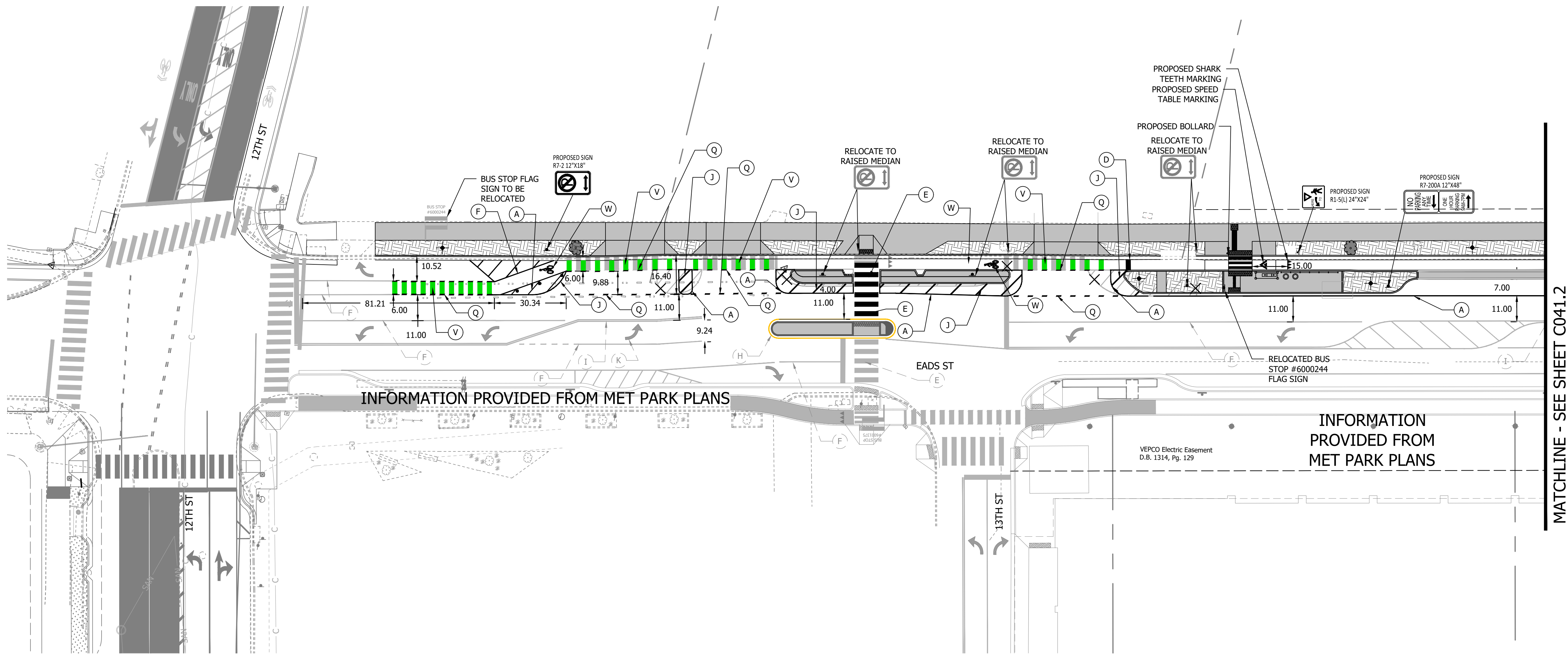
DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

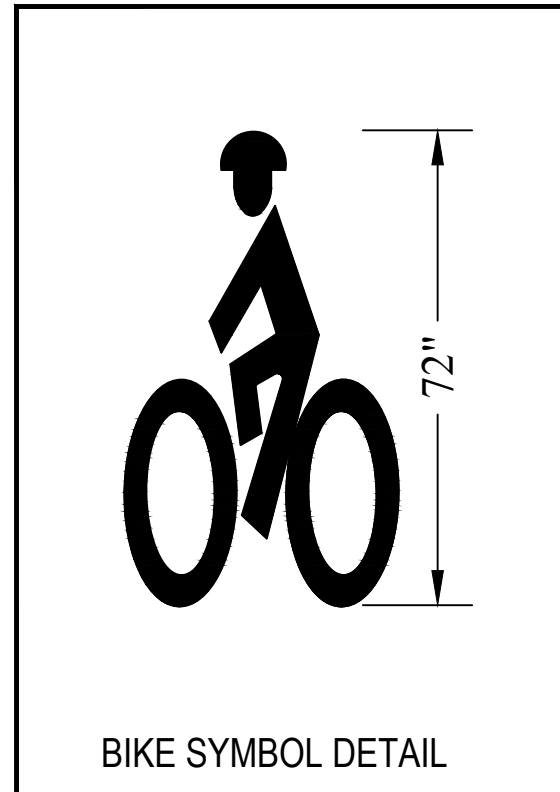
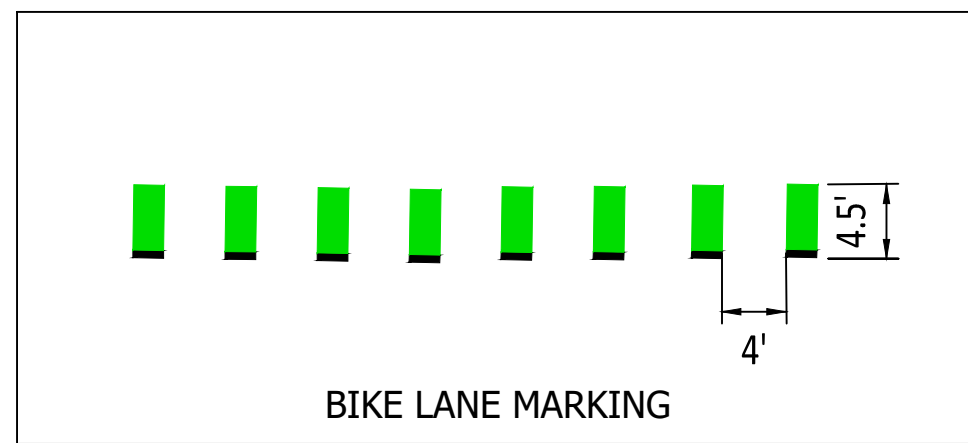
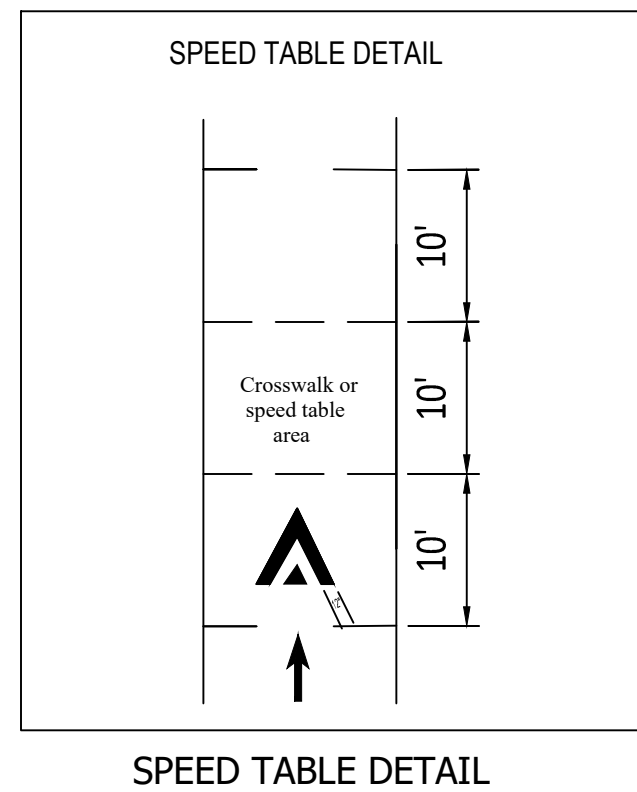
SCALE:







MATCHLINE - SEE SHEET C041.2



NOTES:

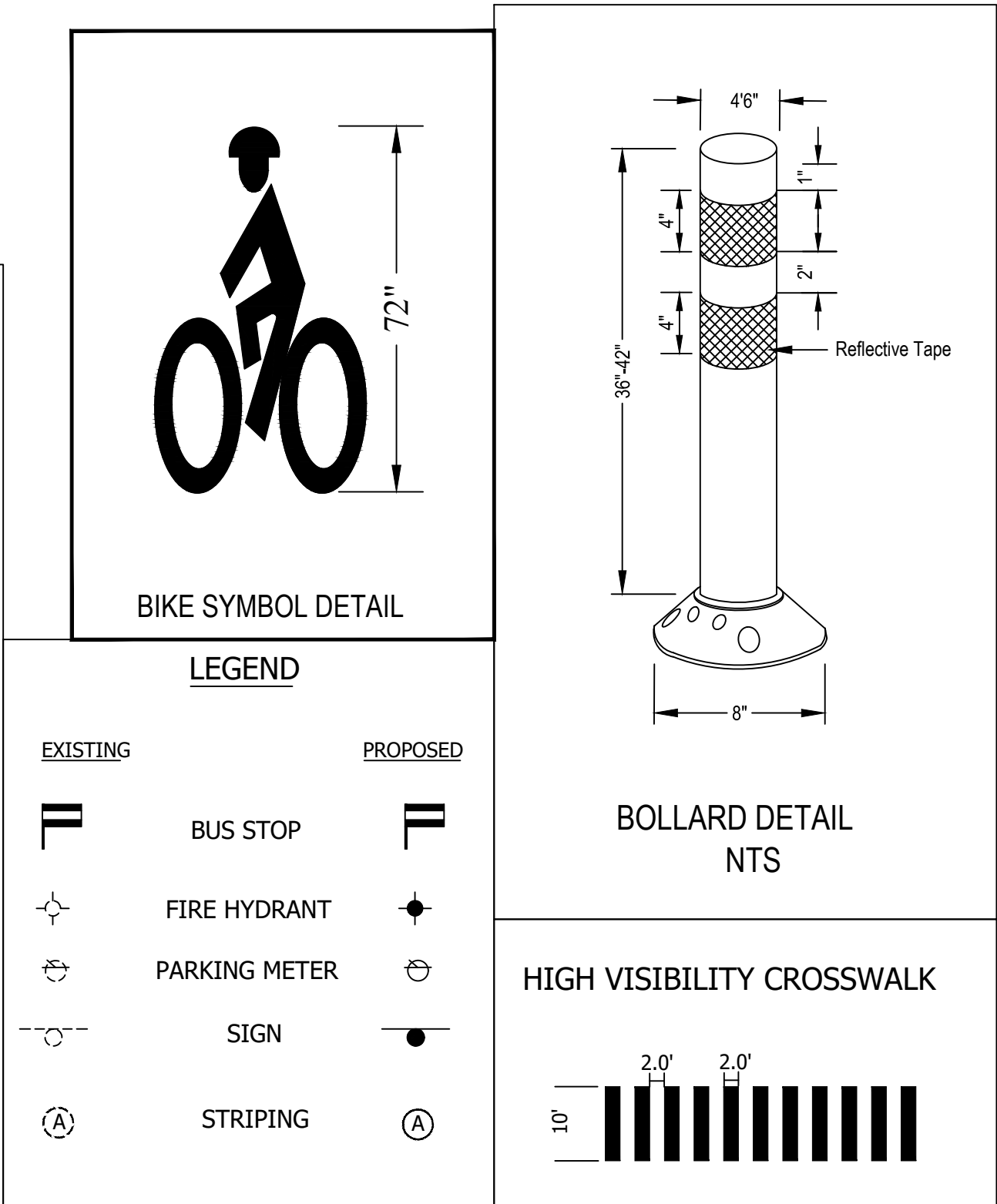
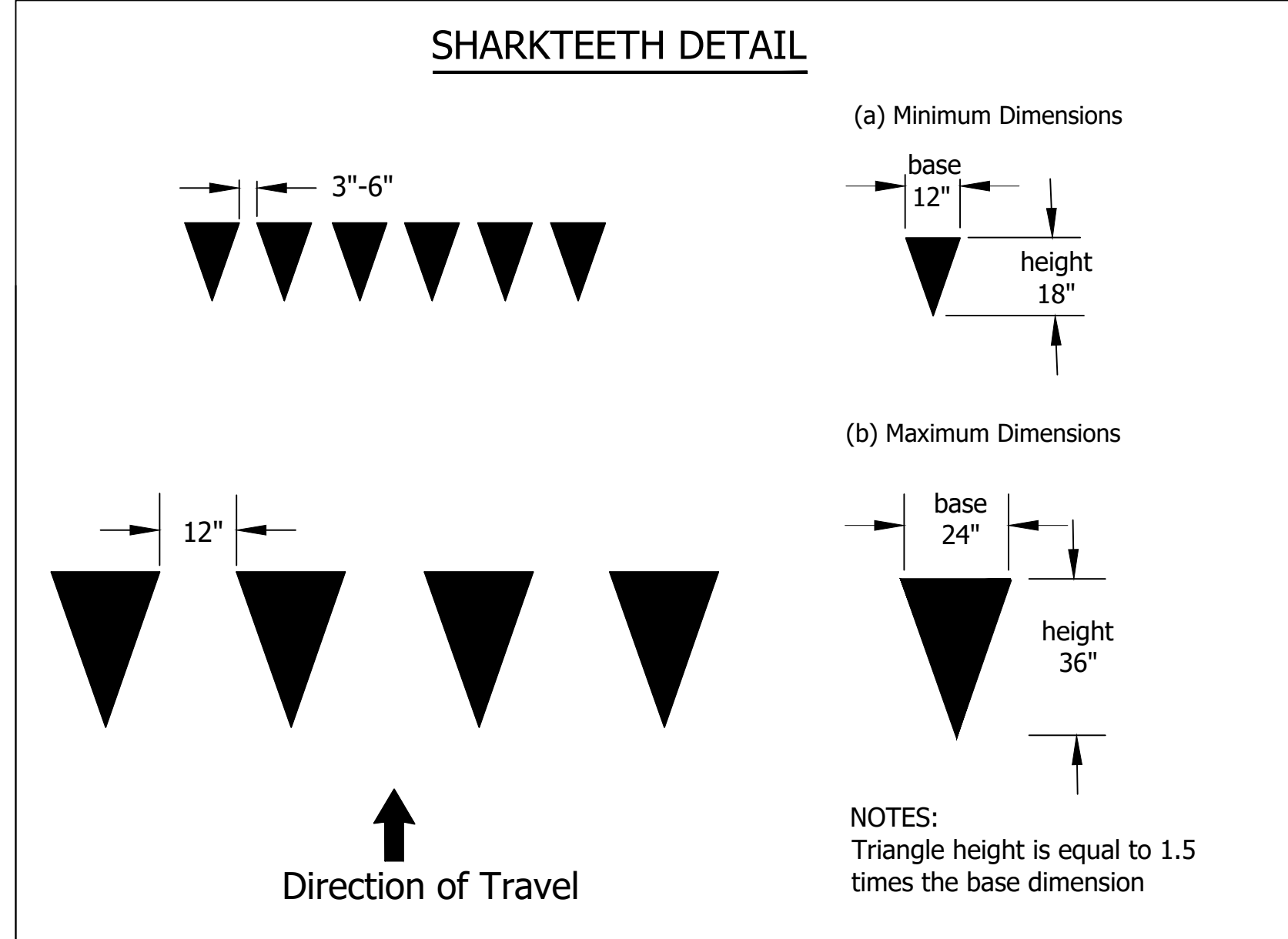
✕ = ERADICATION OF MARKING

PAVEMENT MARKING NOTES:

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

SIGN NOTES:

- FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"x2.50") WITH HARDWARE FOR 2" POST. USE 3/8" CORNER BOLT WITH FLANGED NUT AND 3/8" DRIVER RIVET WITH WASHER.
- CONTACT T&B CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.



SEAL



APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR 9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF 9/18/2023
ENGINEERING BUREAU CHIEF 9/18/2023
Mark Dennis 9/15/2023
PROJECT MANAGER

REVISIONS DATE

S EADS STREET PHASE II
CC23

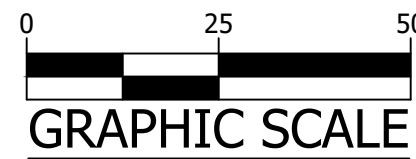
S EADS ST (12TH ST. S. TO 15TH ST. S.)

SIGNING AND PAVEMENT MARKING PLAN

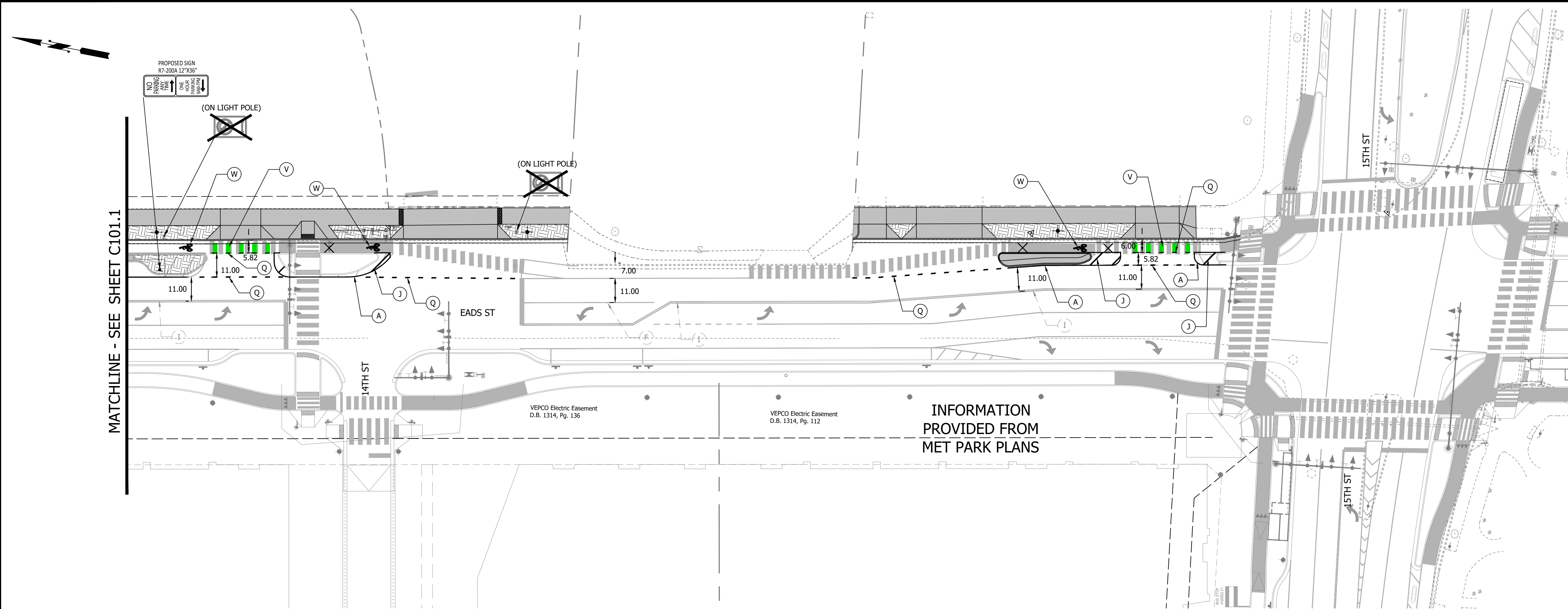
DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

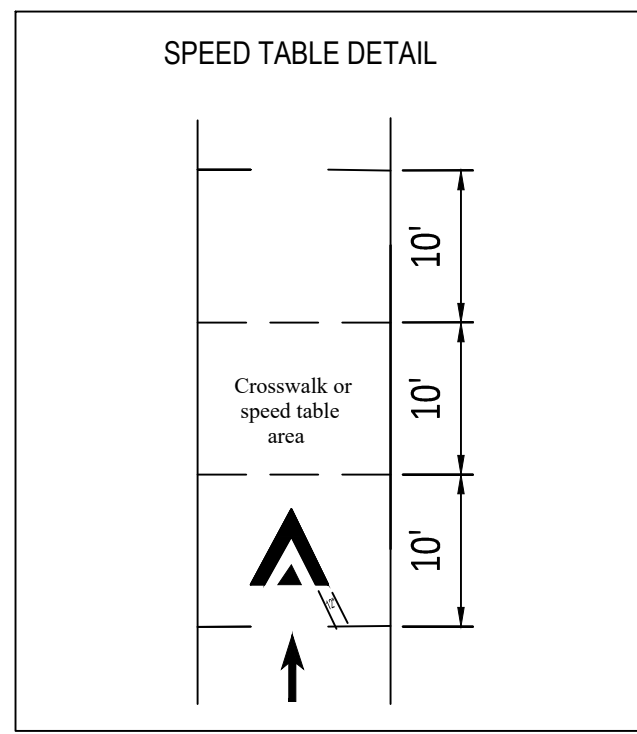


C101.1

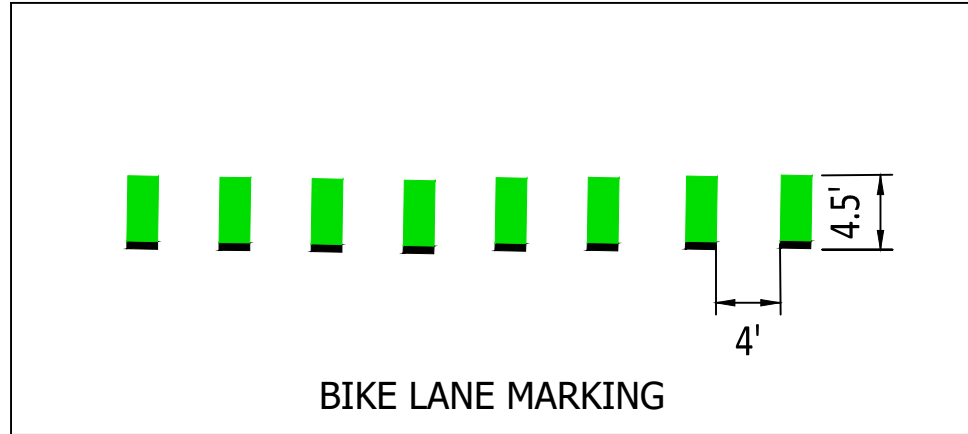


MATCHLINE - SEE SHEET C101.1

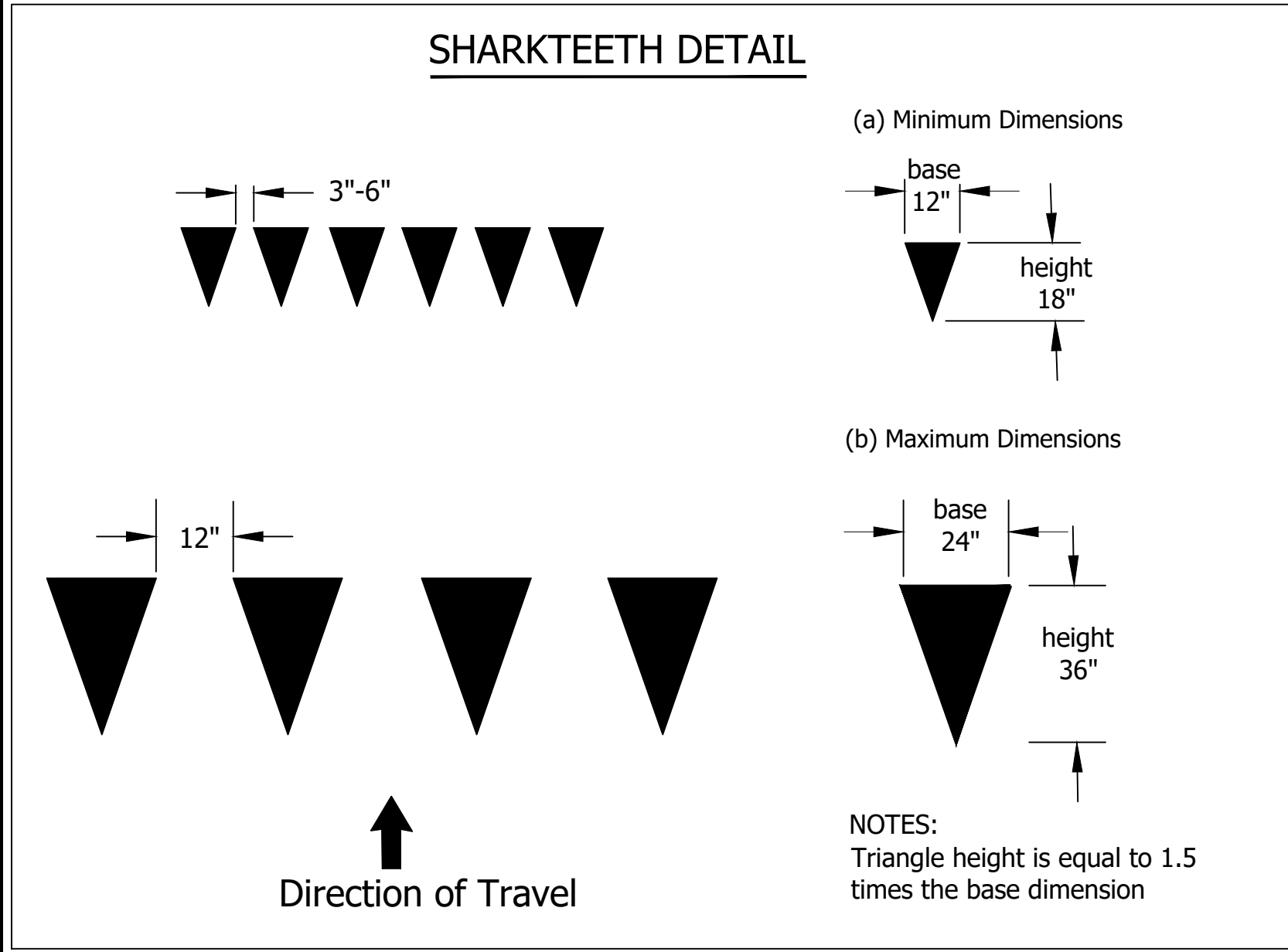
INFORMATION
PROVIDED FROM
MET PARK PLANS



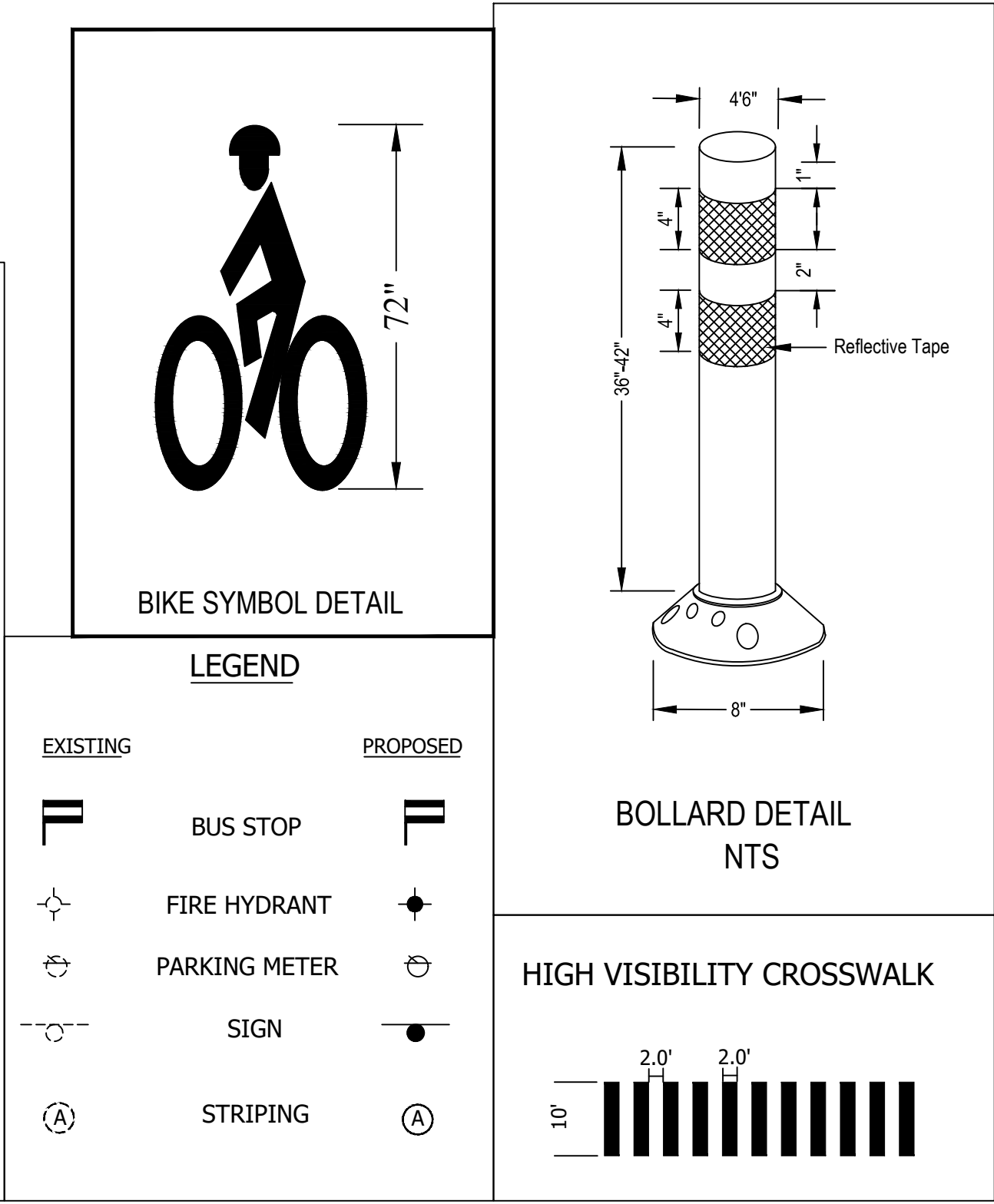
SPEED TABLE DETAIL



BIKE LANE MARKING



SHARKTEETH DETAIL



BIKE SYMBOL DETAIL

BOLLARD DETAIL
NTS

HIGH VISIBILITY CROSSWALK

NOTES:

✕ = ERADICATION OF MARKING

PAVEMENT MARKING NOTES:

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

SIGN NOTES:

- FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"X2.50") WITH HARDWARE FOR 2" POST. USE 3/8" CORNER BOLT WITH FLANGED NUT AND 3/8" DRIVER RIVET WITH WASHER.
- CONTACT T&B CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.

SEAL



APPROVALS

DATE

	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS

DATE

S EADS STREET PHASE II
CC23

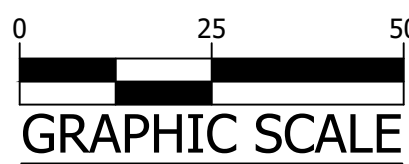
S EADS ST (12TH ST. - S. TO 15TH ST. - S.)

SIGNING AND PAVEMENT MARKING PLAN

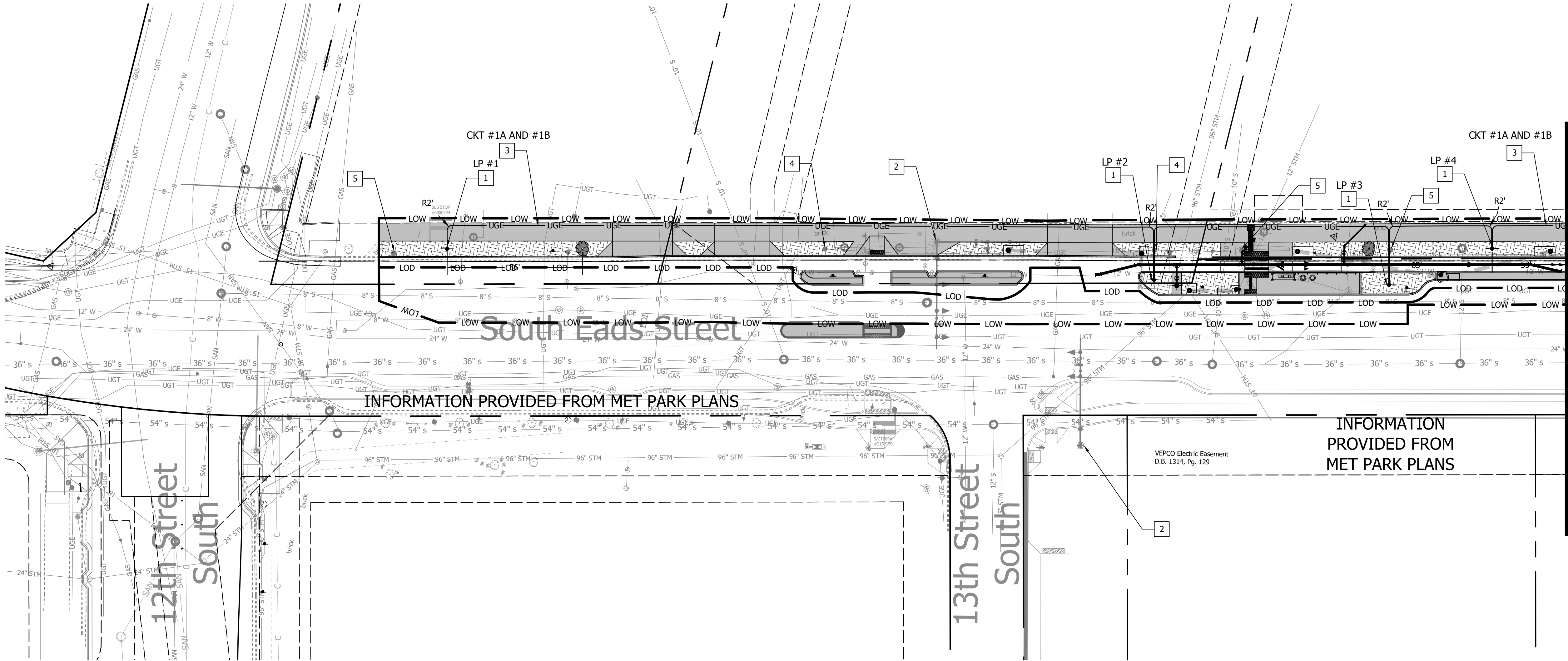
DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:



C101.2



MATCHLINE - SEE SHEET C111.2

CONSTRUCTION NOTES

- CONTRACTOR SHALL FURNISH AND INSTALL LED DECORATIVE POST-TOP ALUMINUM STREETLIGHT POLE WITH SINGLE POST-TOP LUMINAIRE, ON 16' POLE WITH STANDARD DEPTH FOUNDATION (ARL STD. DWG #14112-01), SEE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
- EXISTING TRAFFIC SIGNAL AND/OR PED BUTTON PER MET PARK PLANS
- CONTRACTOR SHALL FURNISH AND INSTALL 1-2" DIA, ELECTRICAL CONDUIT PER ARL STD. DWG #14030-01.
- CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY TO UNINSTALL DEV LIGHT POLE PER NOTES ON THIS SHEET.
- CONTRACTOR SHALL UNINSTALL ARLINGTON COUNTY LIGHT POLE PER NOTES ON THIS SHEET.
- CONTRACTOR SHALL CONNECT TO LIGHT POLE, THE METER CONNECTION WORK SHALL INCLUDE ALL COMPONENTS NEEDED TO COMPLETE THE WORK AND SHALL FOLLOW THE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
- PROPOSED LIGHTING PER MET PARK PLANS

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR USING THE PROPER MEANS AND METHODS OF CONSTRUCTION TO INSTALL THE APPROPRIATE TYPE OF FOUNDATIONS, POLES, LUMINARIES, CONDUITS, WIRING, GROUNDING AND ALL OTHER INCIDENTALS NECESSARY FOR A COMPLETE INSTALLATION OF THE PROPOSED STREETLIGHTS. IT IS RECOMMENDED FOR CONTRACTOR TO PROBE OR EXPLORE THE AVAILABLE DEPTH IN ADVANCE TO DETERMINE THE APPROXIMATE TYPE OF STREETLIGHT FOUNDATION, PROBING AND EXPLORING ARE CONSIDERED INCIDENTAL FOR INSTALLING THE STREETLIGHT FOUNDATION AND NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE.
- CONDUITS ALIGNMENT RUNS, STREETLIGHT FOUNDATIONS AND JUNCTION BOX LOCATIONS WERE DRAWN BASED ON AVAILABLE INFORMATION, FIELD LOCATE AND/OR ADJUST ALIGNMENTS AND PLACEMENTS IF NECESSARY DUE TO SITE CONDITION, FOLLOW THE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
- CONTRACTOR SHALL COORDINATE SERVICE DISCONNECTS AND CONNECTIONS WITH ARLINGTON COUNTY AND DOMINION ENERGY VIRGINIA (DEV).

LIGHTING REMOVAL NOTES

- EXISTING LIGHTING SHALL NOT BE REMOVED WITHOUT TEMPORARY LIGHTING OR PROPOSED LIGHTING BEING IN PLACE.
- CONTRACTOR TO COORDINATE WITH DOMINION ENERGY FOR THE REMOVAL OF DOMINION ENERGY OWNED LIGHTS. CONTRACTOR SHALL NOT REMOVE DOMINION ENERGY LIGHTS WITHOUT THEIR APPROVAL. ANY DAMAGE TO THE DOMINION ENERGY LIGHTS DUE TO CONSTRUCTION SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL CAREFULLY REMOVE ARLINGTON COUNTY LIGHT POLES AND COORDINATE WITH THE ARL. CONSTRUCTION MANAGER FOR DELIVERY TO THE COUNTY FOR STORAGE. THE LAMPS (LUMINARIES) SHALL BE LABELED WITH THE POLE NUMBER PRIOR TO DELIVERY. ALL EXISTING ELECTRICAL FIXTURE AND FOUNDATIONS SHALL BE REMOVED A MINIMUM OF 12" BELOW GRADE.
- ABANDON EXISTING CONDUIT IN PLACE.

CIRCUIT RUN # 1A - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP #1, EX LP#3, LP #6, LP #4, LP #2)

CKT #	FROM	TO	CKT LENGTH	WIRE SIZE	QTY. OF LIGHTS ON POLE	TOTAL QTY. OF LIGHTS ON CKT	AMPERES THRU CABLE	VOLTAGE DROP IN THIS SECTION
PANEL FEED	EX. METER							
CKT1-1A	METER	EX LP #1	39	#6 AWG	2	7	3.38	0.05
CKT1-1A	EX LP#1	EX LP #3	187	#6 AWG	2	5	2.42	0.18
CKT1-1A	EX LP#3	LP #6	442	#6 AWG	1	3	1.45	0.25
CKT1-1A	LP #6	LP #4	248	#6 AWG	1	2	0.97	0.09
CKT1-1A	LP #2	LP #2	175	#6 AWG	1	1	0.48	0.03

Total Voltage Drop of Circuit Run # 2A at last pole (V): 0.61
Percent Voltage Drop for Circuit Run # 2A at last pole: 0.51%

CIRCUIT RUN # 1B - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP#2, LP #9, LP #5, LP #3, LP #1)

CKT #	FROM	TO	CKT LENGTH	WIRE SIZE	QTY. OF LIGHTS ON POLE	TOTAL QTY. OF LIGHTS ON CKT	AMPERES THRU CABLE	VOLTAGE DROP IN THIS SECTION
PANEL FEED	EX. METER							
CKT1-1B	METER	EX LP#2	132	#6 AWG	2	6	2.90	0.15
CKT1-1B	EX LP#2	LP #9	267	#6 AWG	1	4	1.93	0.20
CKT1-1B	LP #9	LP #5	446	#6 AWG	1	3	1.45	0.26
CKT1-1B	LP #5	LP #3	150	#6 AWG	1	2	0.97	0.06
CKT1-1B	LP #3	LP #1	407	#6 AWG	1	1	0.48	0.08

Total Voltage Drop of Circuit Run # 2B at last pole (V): 0.75
Percent Voltage Drop for Circuit Run # 2B at last pole: 0.62%

STREETLIGHT POLE CONTROL AND SCHEDULE

LP #	POLE DECAL ID	STATION (S EADS ST.)	OFFSET (L POLE)	TYPE	MATERIAL	HEIGHT	COLOR	FOUNDATION TYPE	AC STD. LUMINAIRE DWG.#	AC STD. FOUNDATION DWG. #
LP #1	EAD1201S	10+78.44	5.23' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #2	EAD1301S	13+73.12	4.79' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #3	EAD1303S	14+51.09	5.10' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #4	EAD1305S	15+14.08	5.19' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01

CC23 - S EADS STREET SCHEDULE OF ELECTRICAL SERVICE

CIRCUIT NUMBER		STREETLIGHTS SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS	FRAME SIZE	TRIP SIZE	REMARKS
			KW	AMPS					
CKT - 1	RUN A/B	EX LP#1, 2, 3, LP#1, 2, 3, 4, 5, 6 AND 9	0.897	7.48	1/120	2	100	20	7 - single carlyle pole (1 - 69W LED PER POLE) 3 - double carlyle pole (2 - 69W LED per pole)
TOTAL			0.897	7.48					CARLYLE SINGLE LUMINAIRE LED = 1.08 AMPERES CARLYLE DOUBLE LUMINAIRE = 2.16 AMPERES CARLYLE = 69 WATTS



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

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR 9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF 9/18/2023
ENGINEERING BUREAU CHIEF 9/18/2023
Mark Dennis 9/15/2023
PROJECT MANAGER

REVISIONS DATE

S EADS STREET PHASE II

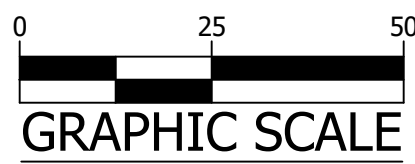
CC23
S EADS ST (12TH ST. - S. TO 15TH ST. - S.)

STREETLIGHT PLAN

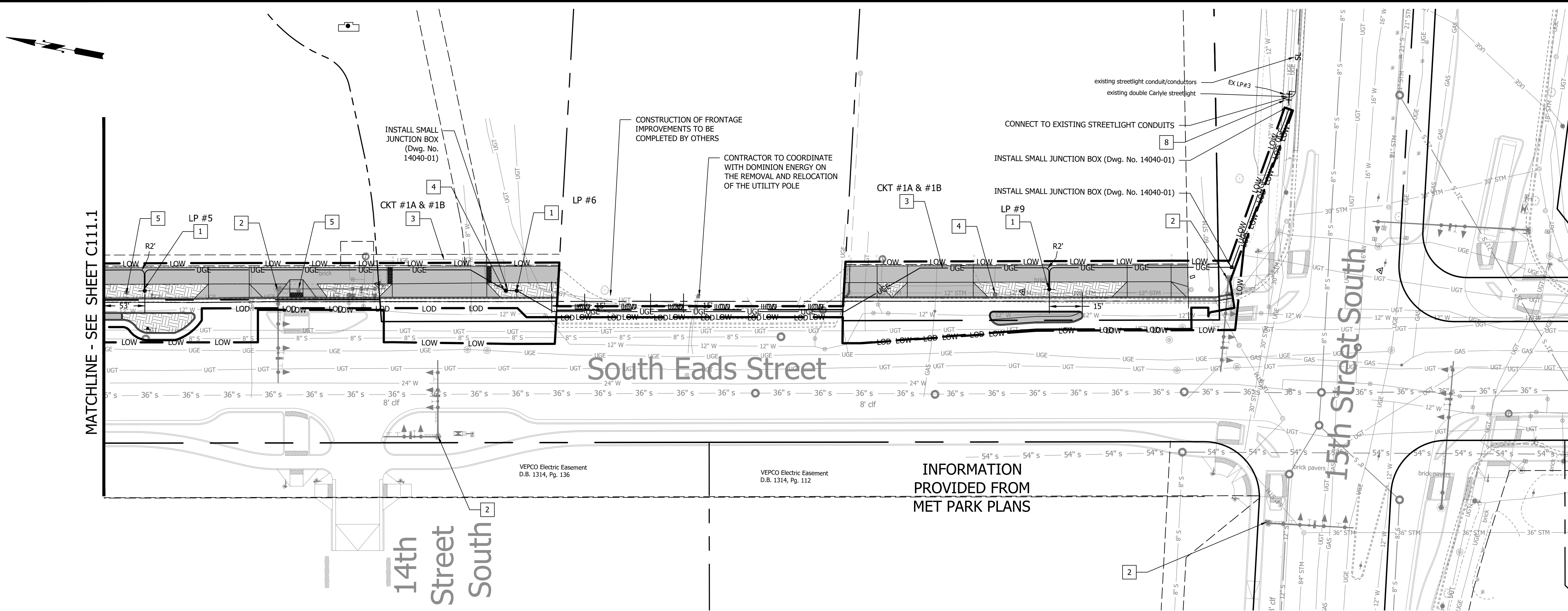
DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:



C111.1



INFORMATION
PROVIDED FROM
MET PARK PLANS

CONSTRUCTION NOTES

- CONTRACTOR SHALL FURNISH AND INSTALL LED DECORATIVE POST-TOP ALUMINUM STREETLIGHT POLE WITH SINGLE POST-TOP LUMINAIRE, ON 16' POLE WITH STANDARD DEPTH FOUNDATION (ARL STD. DWG #14112-01), SEE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
- EXISTING TRAFFIC SIGNAL AND/OR PED BUTTON PER MET PARK PLANS
- CONTRACTOR SHALL FURNISH AND INSTALL 1-2" DIA, ELECTRICAL CONDUIT PER ARL STD. DWG #14030-01.
- CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY TO UNINSTALL DEV LIGHT POLE PER NOTES ON THIS SHEET.
- CONTRACTOR SHALL UNINSTALL ARLINGTON COUNTY LIGHT POLE PER NOTES ON THIS SHEET.
CONTRACTOR SHALL CONNECT TO LIGHT POLE, THE METER CONNECTION WORK SHALL INCLUDE ALL COMPONENTS NEEDED TO COMPLETE THE WORK AND SHALL FOLLOW THE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
- PROPOSED LIGHTING PER MET PARK PLANS
- PROPOSED CONNECTION

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR USING THE PROPER MEANS AND METHODS OF CONSTRUCTION TO INSTALL THE APPROPRIATE TYPE OF FOUNDATIONS, POLES, LUMINAIRES, CONDUITS, WIRING, GROUNDING AND ALL OTHER INCIDENTALS NECESSARY FOR A COMPLETE INSTALLATION OF THE PROPOSED STREETLIGHTS. IT IS RECOMMENDED FOR CONTRACTOR TO PROBE OR EXPLORE THE AVAILABLE DEPTH IN ADVANCE TO DETERMINE THE APPROXIMATE TYPE OF STREETLIGHT FOUNDATION, PROBING AND EXPLORING ARE CONSIDERED INCIDENTAL FOR INSTALLING THE STREETLIGHT FOUNDATION AND NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE.
- CONDUITS ALIGNMENT RUNS, STREETLIGHT FOUNDATIONS AND JUNCTION BOX LOCATIONS WERE DRAWN BASED ON AVAILABLE INFORMATION, FIELD LOCATE AND/OR ADJUST ALIGNMENTS AND PLACEMENTS IF NECESSARY DUE TO SITE CONDITION, FOLLOW THE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
- CONTRACTOR SHALL COORDINATE SERVICE DISCONNECTS AND CONNECTIONS WITH ARLINGTON COUNTY AND DOMINION ENERGY VIRGINIA (DEV).

LIGHTING REMOVAL NOTES

- EXISTING LIGHTING SHALL NOT BE REMOVED WITHOUT TEMPORARY LIGHTING OR PROPOSED LIGHTING BEING IN PLACE.
- CONTRACTOR TO COORDINATE WITH DOMINION ENERGY FOR THE REMOVAL OF DOMINION ENERGY OWNED LIGHTS. CONTRACTOR SHALL NOT REMOVE DOMINION ENERGY LIGHTS WITHOUT THEIR APPROVAL. ANY DAMAGE TO THE DOMINION ENERGY LIGHTS DUE TO CONSTRUCTION SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL CAREFULLY REMOVE ARLINGTON COUNTY LIGHT POLES AND COORDINATE WITH THE ARL. CONSTRUCTION MANAGER FOR DELIVERY TO THE COUNTY FOR STORAGE. THE LAMPS (LUMINAIRES) SHALL BE LABELED WITH THE POLE NUMBER PRIOR TO DELIVERY. ALL EXISTING ELECTRICAL FIXTURE AND FOUNDATIONS SHALL BE REMOVED A MINIMUM OF 12" BELOW GRADE.
- ABANDON EXISTING CONDUIT IN PLACE.

CIRCUIT RUN # 1A - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP #1, EX LP#3, LP #6, LP #4, LP #2)

CKT #	FROM	TO	CKT LENGTH	WIRE SIZE	QTY. OF LIGHTS ON POLE	TOTAL QTY. OF LIGHTS ON CKT	AMPERES THRU CABLE	VOLTAGE DROP IN THIS SECTION
PANEL FEED	EX. METER							
CKT1-1A	METER	EX LP #1	39	#6 AWG	2	7	3.38	0.05
CKT1-1A	EX LP#1	EX LP #3	187	#6 AWG	2	5	2.42	0.18
CKT1-1A	EX LP#3	LP #6	442	#6 AWG	1	3	1.45	0.25
CKT1-1A	LP #6	LP #4	248	#6 AWG	1	2	0.97	0.09
CKT1-1A	LP #2	LP #2	175	#6 AWG	1	1	0.48	0.03

Total Voltage Drop of Circuit Run # 2A at last pole (V): 0.61
Percent Voltage Drop for Circuit Run # 2A at last pole: 0.51%

CIRCUIT RUN # 1B - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP#2, LP #9, LP #5, LP #3, LP #1)

CKT #	FROM	TO	CKT LENGTH	WIRE SIZE	QTY. OF LIGHTS ON POLE	TOTAL QTY. OF LIGHTS ON CKT	AMPERES THRU CABLE	VOLTAGE DROP IN THIS SECTION
PANEL FEED	EX. METER							
CKT1-1B	METER	EX LP#2	132	#6 AWG	2	6	2.90	0.15
CKT1-1B	EX LP#2	LP #9	267	#6 AWG	1	4	1.93	0.20
CKT1-1B	LP #9	LP #5	446	#6 AWG	1	3	1.45	0.26
CKT1-1B	LP #5	LP #3	150	#6 AWG	1	2	0.97	0.06
CKT1-1B	LP #3	LP #1	407	#6 AWG	1	1	0.48	0.08

Total Voltage Drop of Circuit Run # 2B at last pole (V): 0.75
Percent Voltage Drop for Circuit Run # 2B at last pole: 0.62%

STREETLIGHT POLE CONTROL AND SCHEDULE

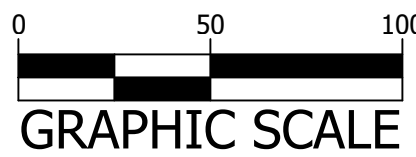
LP #	POLE DECAL ID	STATION (S EADS ST.)	OFFSET (ft. POLE)	TYPE	MATERIAL	HEIGHT	COLOR	FOUNDATION TYPE	AC STD. LUMINAIRE DWG. #	AC STD. FOUNDATION DWG. #
LP #5	EAD1307S	15+66.69	5.28 (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #6	EAD1401S	17+31.93	4.96 (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #9	EAD1403S	19+78.41	5.36 (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01

CC23 - S EADS STREET SCHEDULE OF ELECTRICAL SERVICE

CIRCUIT NUMBER	STREETLIGHTS SERVED		CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS	FRAME SIZE	TRIP SIZE	REMARKS
			KW	AMPS					
CKT - 1	RUN A/B	EX LP#1, 2, 3, LP#1, 2, 3, 4, 5, 6 AND 9	0.897	7.48	1/120	2	100	20	7 - single carlyle pole (1 - 69W LED PER POLE) 3 - double carlyle pole (2 - 69W LED per pole)
TOTAL			0.897	7.48					CARLYLE SINGLE LUMINAIRE LED = 1.08 AMPERES CARLYLE DOUBLE LUMINAIRE = 2.16 AMPERES CARLYLE = 69 WATTS



15th STREET SOUTH
Streetlight between Route 1 ramp to S Eads St



SEAL



APPROVALS DATE

[Signature] 9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR
[Signature] 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR
[Signature] 9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF
[Signature] 9/18/2023
ENGINEERING BUREAU CHIEF
Mark Dennis 9/15/2023
PROJECT MANAGER

REVISIONS DATE

S EADS STREET PHASE II
CC23

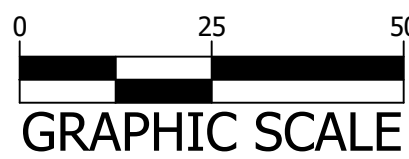
S EADS ST (12TH ST. S. TO 15TH ST. S.)

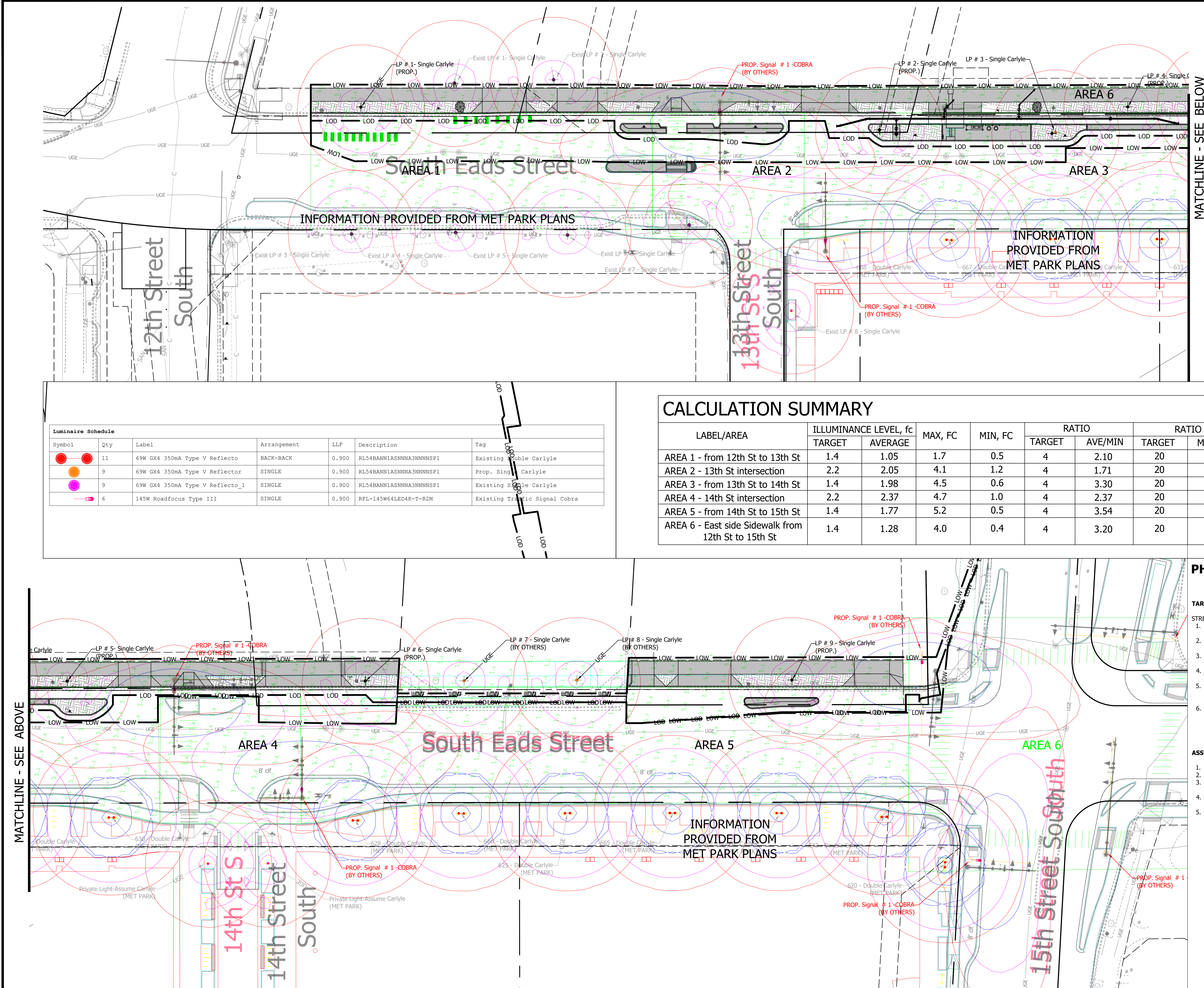
STREETLIGHT PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:





Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Description	Tag
	11	69W GX4 350mA Type V Reflector	BACK-BACK	0.900	RL54BANN1ASNNNA3NNNNSP1	Existing Double Carlyle
	9	69W GX4 350mA Type V Reflector	SINGLE	0.900	RL54BANN1ASNNNA3NNNNSP1	Prop. Single Carlyle
	9	69W GX4 350mA Type V Reflector_1	SINGLE	0.900	RL54BANN1ASNNNA3NNNNSP1	Existing Single Carlyle
	6	145W Roadfocus Type III	SINGLE	0.900	RFL-145W64LED4K-T-R2M	Existing Traffic Signal Cobra

CALCULATION SUMMARY

LABEL/AREA	ILLUMINANCE LEVEL, fc		MAX, FC	MIN, FC	RATIO		RATIO	
	TARGET	AVERAGE			TARGET	AVE/MIN	TARGET	MAX/MIN
AREA 1 - from 12th St to 13th St	1.4	1.05	1.7	0.5	4	2.10	20	3.40
AREA 2 - 13th St intersection	2.2	2.05	4.1	1.2	4	1.71	20	3.42
AREA 3 - from 13th St to 14th St	1.4	1.98	4.5	0.6	4	3.30	20	7.50
AREA 4 - 14th St intersection	2.2	2.37	4.7	1.0	4	2.37	20	4.70
AREA 5 - from 14th St to 15th St	1.4	1.77	5.2	0.5	4	3.54	20	10.40
AREA 6 - East side Sidewalk from 12th St to 15th St	1.4	1.28	4.0	0.4	4	3.20	20	10.00

PHOTOMETRIC ANALYSIS SUMMARY:

TARGET DESIGN CRITERIA:

- STREET CLASSIFICATIONS:
- S EADS ST - MIXED-USE ARTERIALS - COMMERCIAL:
average illuminance (fc): 1.4
 - 13TH STREET S - LOCAL COMMERCIAL
average illuminance (fc): 0.8
 - 14TH STREET SOUTH - LOCAL COMERCIAL
average illuminance (fc): 0.8
 - 15TH STREET SOUTH - ARTERIALS - COMMERCIAL
average illuminance (fc): 1.4
 - S EADS ST INTERSECTIONS
with 13th St S: average illuminance $(1.4 + 0.8) = 2.2$
with 14th St S: average illuminance $(1.4 + 0.8) = 2.2$
 - SIDEWALK ALONG EAST SIDE OF S EADS STREET
average illuminance (fc) will be the same as the roadway
functional classification (S Eads Street) = 1.4

ASSUMPTIONS:

- USE MET PARK PROP. STREETLIGHTS
- USE MET PARK PROP. SIGNAL COBRA
- TWO CARLYLE LIGHTS WILL BE INSTALLED BY AMERICANA DEVELOPERS
- USE EXISTING CARLYLE LIGHTS BETWEEN 13TH AND 12 STREETS.
- DOUBLE CARLYLE STREETLIGHTS PROVIDED BY MET PARK ARE EXCESSIVE.



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

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR 9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF 9/18/2023
ENGINEERING BUREAU CHIEF 9/18/2023
PROJECT MANAGER 9/15/2023

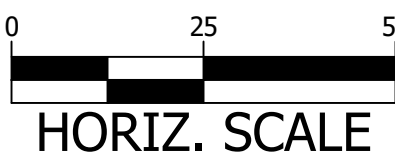
REVISIONS DATE

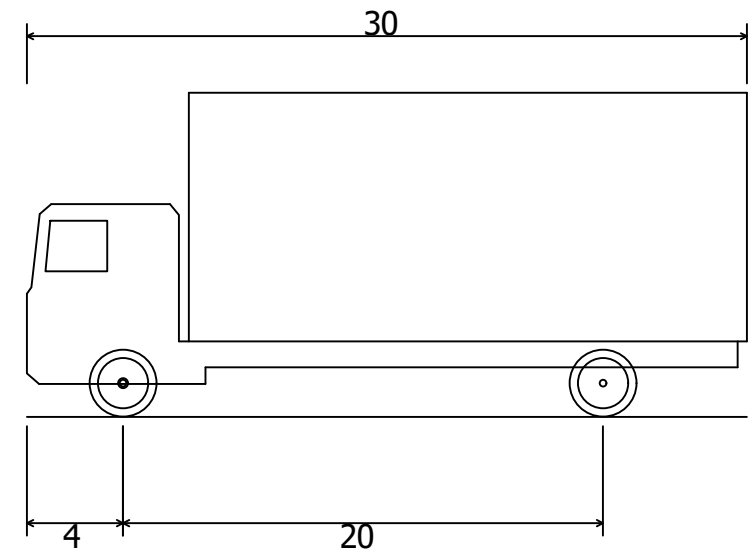
S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)
PHOTOMETRICS ANALYSIS EXHIBIT

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

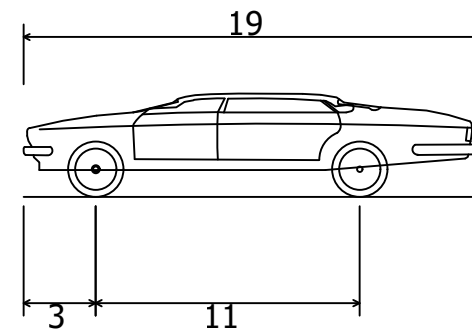
PLOTTED: SEPTEMBER 6 2023

SCALE:

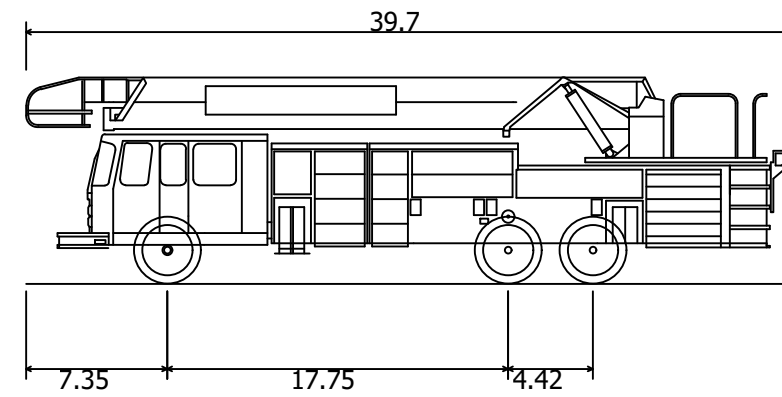




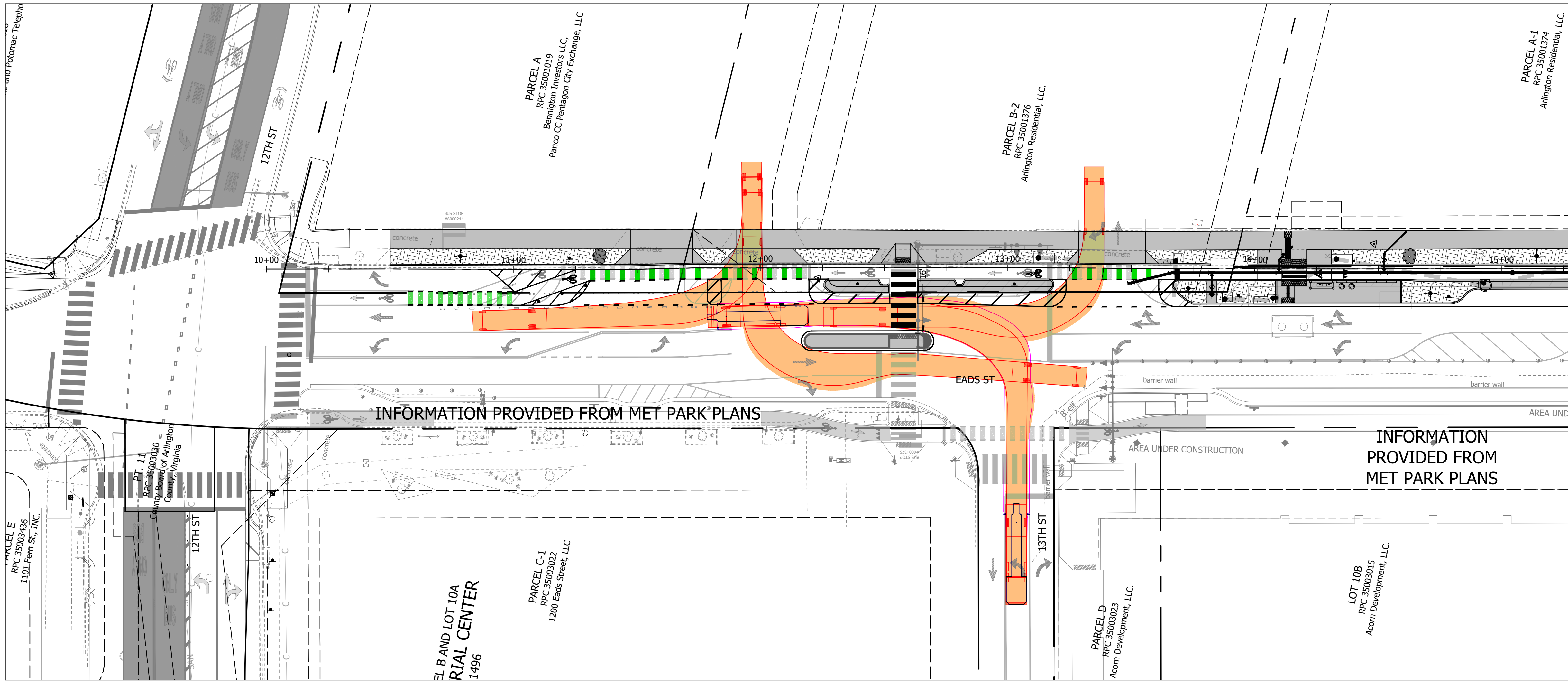
SU-30 - Single Unit Truck
Overall Length 30.000ft
Overall Width 8.000ft
Overall Body Height 13.500ft
Min Body Ground Clearance 1.362ft
Track Width 8.000ft
Lock-to-lock time 5.00s
Max Steering Angle (Virtual) 31.80°



P - Passenger Car
Overall Length 19.000ft
Overall Width 7.000ft
Overall Body Height 4.300ft
Min Body Ground Clearance 1.115ft
Track Width 6.000ft
Lock-to-lock time 4.00s
Max Steering Angle (Virtual) 31.60°



ACG - Fire Ladder Truck
Overall Length 39.700ft
Overall Width 8.600ft
Overall Body Height 10.751ft
Min Body Ground Clearance 1.522ft
Track Width 8.000ft
Lock-to-lock time 4.00s
Max Wheel Angle 45.00°



TURNING MOVEMENT ANALYSIS NARRATIVE

EAST SIDE OF EADS STREET

- THE DESIGN VEHICLES FOR THE ANALYSIS ARE:
- SU-30 FOR ALL DRIVEWAYS
 - PASSENGER CAR FOR PARKING GARAGE ENTRANCE AND EXIT
 - FIRE TRUCK FOR LEFT TURN FROM 13TH STREET S

THE DESIGN SPEED OF EADS STREET IS 30 MPH.

ALL TURNING MOVEMENTS ON TO EADS STREET CAN BE ACCOMPLISHED WITH THE PROPOSED LANE CONFIGURATION.



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

COPYRIGHT © 2022 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR 9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR 9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF 9/18/2023
ENGINEERING BUREAU CHIEF 9/18/2023
PROJECT MANAGER 9/15/2023

REVISIONS DATE

S EADS STREET PHASE II
CC23

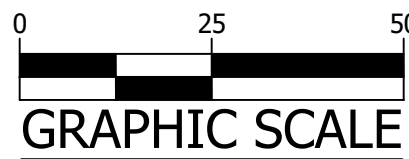
S EADS ST (12TH ST. S. TO 15TH ST. S.)

TURNING MOVEMENT EXHIBIT

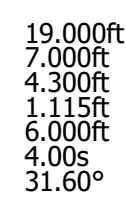
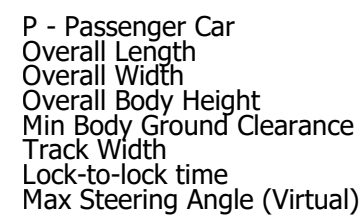
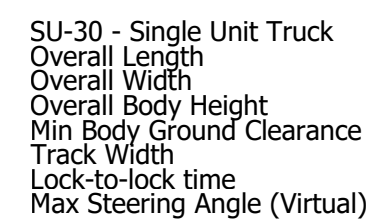
DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:



C200.1



EAST SIDE OF EADS STREET

THE DESIGN VEHICLES FOR THE ANALYSIS ARE:

- SU-30 FOR ALL DRIVEWAYS
- PASSENGER CAR FOR PARKING GARAGE ENTRANCE AND EXIT
- FIRE TRUCK FOR LEFT TURN FROM 13TH STREET S

THE DESIGN SPEED OF EADS STREET IS 30 MPH.

ALL TURNING MOVEMENTS ON TO EADS STREET CAN BE ACCOMPLISHED WITH THE PROPOSED LANE CONFIGURATION.