

# ARLINGTON VIRGINIA

## Construction Drawings For: Marcey Road Park Improvements

(By Right)  
2722 Marcey Road,  
Arlington, VA 22207

### SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
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1 OF 3	SIGNED TOPOGRAPHIC SURVEY
2 OF 3	SIGNED TOPOGRAPHIC SURVEY
3 OF 3	SIGNED TOPOGRAPHIC SURVEY
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L-06	SITE DETAILS - FURNISHINGS AND TENNIS & BASKETBALL DETAILS
L-07	SITE DETAILS - TENNIS & BASKETBALL DETAILS
L-08	SITE DETAILS - TENNIS & BASKETBALL DETAILS
L-09	SITE DETAILS - DRINKING FOUNTAIN
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LP-03	PLANTING DETAILS
REF-01	REFORESTATION PLAN
ALT-01	BID ALTERNATES

# DEPARTMENT OF PARKS AND RECREATION

## PARK DEVELOPMENT DIVISION

2100 CLARENDON BOULEVARD, SUITE 414,  
ARLINGTON, VA 22201  
PHONE: 703.228.3332  
FAX: 703.228.3328  
WWW.ARLINGTONVA.US

### 100% CONSTRUCTION DRAWINGS

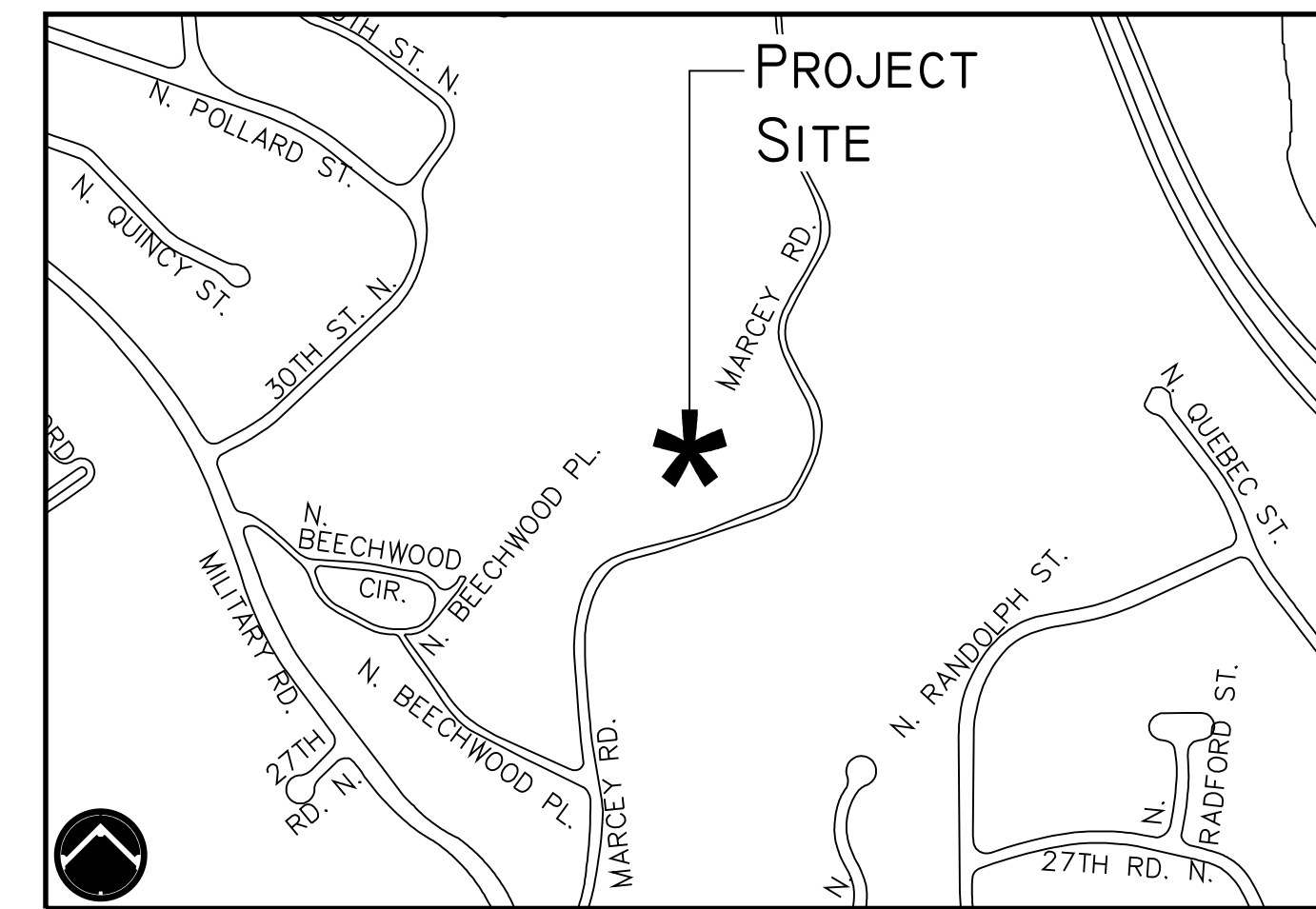
#### ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WATER-SEWER CONSTRUCTION REQUIREMENTS (REVISED MARCH 2005)

#### GENERAL NOTES:

- THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE. THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, HE SHALL BRING THESE ITEMS TO THE ATTENTION OF THE PROJECT OFFICER FOR DIRECTION BEFORE PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BE RESPONSIBLE FOR ADHERENCE TO ALL ORDINANCES, REGULATIONS, LAWS AND CODES HAVING JURISDICTION OVER THE PROPERTY.
- THE CONTRACTOR SHALL SUBMIT A REQUIRED "RESPONSIBLE LAND DISTURBER" CERTIFICATION LETTER AS PART OF OBTAINING A BUILDING (OR DISTURBANCE) PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR LICENSING AS REQUIRED BY APPLICABLE REGULATORY AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SALES, USE AND CAPITAL GAINS TAXES.
- UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS DETERMINED FROM VISIBLE EVIDENCE AND AVAILABLE RECORDS. ADDITIONAL UNDERGROUND UTILITY LINES MAY BE PRESENT THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE EXISTING UTILITIES.
- CONTRACTOR SHALL NOT SUBSTITUTE PRODUCTS OR MATERIALS WITHOUT PRIOR APPROVAL BY THE PROJECT OFFICER.
- THE CONTRACTOR SHALL IDENTIFY ALL STAGING AREAS AND LIMITS OF WORK FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO THE START OF WORK. AREAS OUTSIDE LIMITS OF WORK SHALL NOT BE USED FOR STORAGE OR MOVEMENT OF MATERIALS, MACHINERY OR DEBRIS.
- THE CONTRACTOR SHALL OBTAIN THE PROJECT OFFICER'S APPROVAL FOR TIMES OF DAY DURING WHICH CONSTRUCTION OPERATIONS MAY OCCUR. ALL CONSTRUCTION OPERATIONS SHALL OCCUR WITHIN TIMES SPECIFIED BY LOCAL ORDINANCES.
- CONSTRUCTION ACTIVITIES FOR THIS PROJECT OCCUR ENTIRELY ON PARK PROPERTY. THEREFORE, A MAINTENANCE OF TRAFFIC (MOT) PLAN IS NOT EXPECTED TO BE REQUIRED. HOWEVER, IF THE ARLINGTON DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) DETERMINES THAT AN MOT PLAN IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE PLAN TO DES FOR THEIR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL BE ON SITE AT TIME OF ALL MATERIALS DELIVERIES.
- THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND FREE OF TRASH AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRASH RECEPTACLE TO BE USED ON SITE DURING CONSTRUCTION AND SHALL REMOVE TRASH FROM THE SITE ON A DAILY BASIS.
- THE CONTRACTOR SHALL KEEP VEHICULAR ACCESS AREAS CLEAN DURING CONSTRUCTION. VEHICULAR AND OTHER PAVED AREAS SHALL BE WASHED FREE OF MUD ON A WEEKLY BASIS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SECURE THE CONSTRUCTION AREA WITH FENCING AT END OF WORKDAY AND WHEN CONTRACTOR IS NOT ON SITE.
- THE CONTRACTOR SHALL DISTRIBUTE ALL PROJECT MATERIALS AND EQUIPMENT AND DISTRIBUTE ANY STOCKPILES IN SUCH A MANNER AS TO PROTECT EXISTING CONDITIONS, SUCH AS UTILITIES, PAVING, VEGETATION, ETC. THE CONTRACTOR SHALL NOT STOCKPILE SOIL OR CONSTRUCTION MATERIALS, OR DRIVE VEHICLES WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES TO REMAIN. THE CONTRACTOR SHALL OBTAIN THE PROJECT OFFICER'S APPROVAL FOR ALL CONSTRUCTION ACCESS AREAS, STAGING AND STOCKPILE AREAS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOT BLOCK STREETS, PARKING AREAS, HOUSE OR DRIVEWAY ENTRANCES DURING CONSTRUCTION WITHOUT THE PROJECT OFFICER'S PERMISSION AND APPROVAL OF ANY RIGHT-OF-WAY PERMITS IF REQUIRED.
- THE CONTRACTOR SHALL STAKE THE ALIGNMENT OF ALL PAVEMENT, WALLS, CURBING, SAFETY SURFACING AND SITE FEATURES IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROMPTLY REPAIR ALL DAMAGE TO EXISTING PAVEMENT, DRIVEWAYS, AND ADJACENT FACILITIES CAUSED BY CONSTRUCTION OPERATIONS. COST OF REPAIRS SHALL BE AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL REMOVE ALL EXCESS SOIL, TEMPORARY FENCING, EROSION CONTROL MEASURES, STABILIZATION MATERIALS, AND OTHER DEBRIS AND SHALL DISPOSE OF LEGALLY UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL THOROUGHLY WASH AND CLEAN ALL PAVED AREAS, WALLS, SITE FURNISHINGS AND FEATURES, ETC. UPON COMPLETION OF THE PROJECT.
- REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

CONTRACTOR:  
TO BE DETERMINED

LANDSCAPE ARCHITECT/ENGINEER:  
A. MORTON THOMAS  
& ASSOCIATES, INC.  
14555 AVION PARKWAY, SUITE 150  
CHANTILLY, VA 20151  
PHONE: 703.817.1373  
WWW.AMTECHENGINEERING.COM



VICINITY MAP - 1" = 500'

#### 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 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 TWO WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR AT 703-228-3049. ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE AT 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.

#### ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS, ANY EXISTING ENTRANCES, CURB AND GUTTER OR SIDEWALK ALONG THE FRONTAGE OF THIS SITE IN POOR CONDITION, OR DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CLOSING, TO ARLINGTON COUNTY STANDARDS, ANY EXISTING ENTRANCES NOT BEING USED IN CONJUNCTION WITH THIS DEVELOPMENT.
- THE CONTRACTOR SHALL OBTAIN ARLINGTON COUNTY PERMITS FOR EACH SITE.
- THERE MAY BE UNDERGROUND CONDUIT, CABLES AND TRAFFIC DETECTION DEVICES IN THIS AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TRAFFIC CONTROLS THAT ARE DISTURBED DURING CONSTRUCTION. NOTIFY THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU AT (703) 228-3575, 24 HOURS PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR ANY OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR PERMISSION FROM THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU. CONTACT TRANSPORTATION ENGINEERING AT (703) 228-3575.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU, PRIOR TO PLACING ANY OBSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY, OR ON SIDEWALKS ALONG THE FRONTAGE OF THIS DEVELOPMENT.
- THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE INSPECTION SERVICES DIVISION PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION OF ON-SITE FACILITIES. FOR INFORMATION AND PERMIT REQUIREMENTS TELEPHONE (703) 228-3800.

#### UTILITY MARKING REQUIREMENTS:

- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 811, 72 HOURS PRIOR TO THE START OF ANY EXCAVATION OR CONSTRUCTION, FOR THE MARKING OF UNDERGROUND UTILITIES IN THE RIGHT-OF-WAY.
- UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS DETERMINED FROM A TOPOGRAPHIC SURVEY AND AVAILABLE RECORDS. ADDITIONAL UNDERGROUND UTILITY LINES MAY BE PRESENT THAT ARE NOT SHOWN. THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING UTILITIES.

#### HORIZONTAL DATUM:

THE SITE SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM 83 (NORTH ZONE) AS COMPUTED FROM A FIELD RUN BOUNDARY AND HORIZONTAL CONTROL SURVEY.

#### VERTICAL DATUM:

THE SITE SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS COMPUTED FROM A FIELD RUN VERTICAL CONTROL SURVEY.

#### QUANTITIES NOTE:

ANY QUANTITIES SPECIFIED IN THE BID TAB AND ON THE CONSTRUCTION DOCUMENTS ARE ESTIMATES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES SHOWN ON THE DRAWINGS AND SPECIFICATIONS DO NOT GUARANTEE A SPECIFIC QUANTITY OR DOLLAR AMOUNT. ADDITIONALLY, EVERY ITEM REQUIRED TO BUILD THE PROJECT MAY NOT BE LISTED ON THE BID SHEET.

#### GLOSSARY OF ABBREVIATIONS

ABBREVIATION:	REFERENCE:	IP	INLET PROTECTION
AC (A.C.)	ARLINGTON COUNTY	ITB	INVITATION TO BID
AC (AC.)	ACRES	KSJ	KILOFOUND PER SQUARE INCH
ADA (A.D.A.)	AMERICANS WITH DISABILITIES ACT	L#	LINE NUMBER (LAYOUT)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LA	LANDSCAPE ARCHITECT
APPROX.	APPROXIMATE, APPROXIMATELY	LB (LB.)	POUNDS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LDA	LAND DISTURBING ACTIVITY
BBB	BAK & BURLAP	LF	LINEAR FEET (FOOT)
B/T	BETWEEN	LOD	LIMITS OF DISTURBANCE
BL	BASELINE	LP	LOW POINT
BMP	BEST MANAGEMENT PRACTICES	LS (L.S.)	PROFESSIONAL LAND SURVEYOR, OR LUMP SUM
BP (B.P.)	POINT OF BEGINNING	MANUF.	MANUFACTURER
BS	BOTTOM STEP	MAX (MAX.)	MAXIMUM
BW	BOTTOM WALL	MD	MARYLAND
CB	CURVE NUMBER (LAYOUT)	MECH.	MECHANICAL
C&G	CURB AND GUTTER CONSTRUCTION ENTRANCE	MH	MANHOLE
CE	CALIPER	MIN (MIN.)	MINIMUM
CF (CAL.)	CUBIC FEET	MM (MM.)	MILLIMETER
CF (C.F.)	CODE OF FEDERAL REGULATIONS	MON (MON.)	MONUMENT
CFS	CUBIC FEET PER SECOND	MOT (M.O.T.)	MAINTENANCE OF TRAFFIC
CIP (C.I.P.)	CAST IN PLACE CONCRETE JOINT	MSL	MUNICIPAL SEWER PERMIT PROGRAM
CL	CENTER LINE	NA (N/A)	NOT APPLICABLE
CLA (C.L.A.)	CERTIFIED LANDSCAPE ARCHITECT	NAD 83	NORTH AMERICAN HORIZONTAL DATUM83
CM (CM.)	CENTIMETER	NAVD 88	NORTH AMERICAN VERTICAL DATUM88
CN	CLEANOUT	NIC (N.I.C.)	NOT IN CONTRACT
CONC (CONC.)	CONCRETE	NTS (N.T.S.)	NOT TO SCALE
CONT (CONT.)	CONTAINER (PLANTING), OR CONTINUOUS	OC (O.C.)	ON CENTER
CRZ	CRITICAL ROOT ZONE	OFF (OFF.)	OFFSET
DA	DRAINAGE AREA	PC	POINT OF CURVATURE
DBH	DIAMETER AT BREAST HEIGHT	PCC	POINT OF COMPOUND CURVATURE
DC (D.C.)	DISTRICT OF COLUMBIA	PDD	PARK DEVELOPMENT DIVISION
DCR	DEPARTMENT OF CONSERVATION AND RECREATION	PE (P.E.)	PROFESSIONAL ENGINEER
DEMO	DEMOLITION	PERF (PERF.)	PERFORATED
DEQ	DEPT. OF ENVIRONMENTAL QUALITY	PL	PLATE
DES	DEPT. OF ENVIRONMENTAL SERVICES	PO	PROJECT OFFICER
DIA (DIA.)	DIAMETER	POC (P.O.C.)	POINT OF CONNECTION (IRRIGATION), POINT OF CURVATURE (LAYOUT)
DOJ	DEPARTMENT OF JUSTICE	PRC	POINT OF REVERSE CURVATURE
DPR	DEPARTMENT OF PARKS & RECREATION	PSI (P.S.I.)	POUNDS PER SQUARE INCH
DS	DEWATERING STRUCTURE	PT (P.T.)	PRESSURE TREATED (LUMBER), OR POINT OF TANGENCY (LAYOUT)
DSWC	DIVISION OF SOIL AND WATER CONSERVATION	PVC (P.V.C.)	POLYVINYL CHLORIDE
E&S	EROSION AND SEDIMENT CONTROL	QTY (QTY.)	CAPACITY
E.G.	EXEMPLI GRATIA ( FOR EXAMPLE )	RAD.	RADIUS
EA	EACH	RCP	REINFORCED CONCRETE PIPE
EA (E.C.)	EPOXY COATED EXPANSION JOINT	REQD.	REQUIRED
EJ	EXPANSION JOINT	RET.	RETAINING
EJD	EXPANSION JOINT WITH DOWEL	RLA (R.L.A.)	REGISTERED LANDSCAPE ARCHITECT
ELEC (ELEC.)	ELECTRIC	ROW (R.O.W.)	RIGHT-OF-WAY
ELEV (ELEV.)	ELEVATION	RPA	RESOURCE PROTECTION AREA
EP (E.P.)	END POINT	RV	VOLUMETRIC RUNOFF COEFFICIENT
EQ (EQ.)	EQUAL	SCH (SCH.)	SCHEDULE
ESC	EROSION AND SEDIMENT CONTROL	SCHD	SCHEDULE
ESD	ENVIRONMENTAL SITE DESIGN	SF (S.F., SQ. FT.)	SQUARE FOOT (FEET)
ETC.	ET CETERA	SFF	SUPER SILT FENCE
EW (E.W.)	EACH WAY	SPEC.	SPECIFICATION, OR SPECIFIED
EX	EXISTING	SS	STAINLESS STEEL
EX JOINT	EXPANSION JOINT	STA (STA.)	STATION
FG	FLOODPLAIN	STD (STD.)	STANDARD
FF	FEET	SWM	STORMWATER MANAGEMENT
FT (FT.)	FEET	T&B	TOP AND BOTTOM
FT/S	FEET PER SECOND	TAN (TAN.)	TANGENT
GAL (GAL.)	GALLONS	TEMP.	TEMPORARY
GALV (GALV.)	GALVANIZED	TP	TREE PROTECTION
GPH	GALLONS PER MINUTE	TS	TOP STEP
HORIZ (HORIZ.)	HORIZONTAL	TW	TOP WALL
HP	HIGH POINT	TY (TYP.)	TYPICAL
HSS	HOLLOW STRUCTURAL STEEL	USE	UNDERGROUND ELECTRIC LINE UNLESS OTHERWISE NOTED
ID EST ( IN OTHER WORDS )	IRON PIPE FOUND	UN (U.O.N.)	VIRGINIA
I.P.F.	IRON PIN SET	VA	VIRGINIA
I.P.S.	IRON PIN SET	VERT.	VERTICAL
ID (I.D.)	IDENTIFICATION	VPEES	VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
INFO	INFORMATION	W/	WITH
INV (INV.)	INVERT	W/WF	WATER SURFACE ELEVATION
		YR	WELDED WIRE FABRIC
		XING	CROSSING



#### DEPARTMENT OF PARKS AND RECREATION

Parks Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA, 22201  
Phone: 703.228.7598  
Fax: 703.228.3328

### 21-DPR-ITB-646

# Marcey Road Park Improvements

BY RIGHT (COUNTY PROJECT)  
2722 N. MARCEY ROAD  
ARLINGTON, VA 22207

LDA-I6261  
LDA# 20158  
SWM# 20-0172

Approvals Date

Park Department Division Chief

Design Manager

# COVER SHEET

Sheet

## C-01

**NOTES:**

1. PROPERTY LINES SHOWN ON THIS SURVEY ARE A COMPILATION FROM DEEDS, PLATS, SURVEYS BY OTHERS, OR COMBINATION THEREOF FROM LAND RECORDS; AND LIMITED MONUMENT TIES, AND DOES NOT REPRESENT THE RESULTS OF A FIELD RUN BOUNDARY SURVEY.
2. NO TITLE REPORTS HAVE BEEN FURNISHED AND NOT ALL EASEMENTS AND/OR ENCUMBRANCES ARE SHOWN ON THE SURVEY.
3. THIS SURVEY WAS PREPARED FOR ARLINGTON COUNTY DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES.
4. THE HORIZONTAL DATUM IS VIRGINIA COORDINATE SYSTEM 83(NORTH ZONE), AND THE VERTICAL DATUM IS NAVD88, BOTH ESTABLISHED BY GPS OBSERVATIONS. THE FOOT DEFINITION USED IS THE U.S. SURVEY FOOT.
5. THE CONTOUR INTERVAL IS ONE (1) FOOT.
6. NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY, HOWEVER THIS DOES NOT PRECLUDE THEIR EXISTENCE.
7. THIS SURVEY WAS FORWARDED ELECTRONICALLY IN READ ONLY FORMAT. ANY ATTEMPT AT ALTERATION INVALIDATES THE SEAL AND SIGNATURE. AN ORIGINAL HARD COPY REMAINS ON FILE AT RICE ASSOCIATES.
8. THE PHYSICAL FEATURES SHOWN HEREON ARE DERIVED BY CONVENTIONAL SURVEY METHODS.
9. THE SUBJECT PROPERTY IS IDENTIFIED AS RPC #04-011-239.
10. AREA IS 130,680 SQ. FT. PER ARLINGTON COUNTY TAX RECORDS. AREA IS 130,710 SQ. FT. PER DEEDS AND PLATS RECORDED AT D.B.1406 PG. 269 AND D.B. 1438 PG. 651.
11. RESOURCE PROTECTION BUFFER OBTAINED FROM AVAILABLE ARLINGTON COUNTY G.I.S. DATA.
12. THE SUBJECT PROPERTY LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.290 ANNUAL CHANGE FLOODPLAIN AS DEPICTED ON THE FLOOD INSURANCE RATE MAP NUMBER 51013C0036C, EFFECTIVE 08/19/2013.
13. SEE SHEET 3 FOR SUBSURFACE DESIGNATIONS, CRITICAL ROOT ZONES AND RPA LIMITS.

**UTILITY CONTACTS:**

ARLINGTON COUNTY WATER & SEWER  
DARYL SMITH

ENGINEER  
4200 28TH STREET  
ARLINGTON, VA 22206  
(703) 228-8797

DOMINION POWER

JULIA MATHERS  
ELECTRIC COORDINATOR  
3072 CENTREVILLE ROAD  
HERNDON, VA 20171  
(571)203-5324

VERIZON COMMUNICATION

LENWOOD TURNER  
SUPERVISOR OF NETWORK  
502 E. FIEDMONT STREET  
CULPEPER, VA 22701  
(540)829-2640

WASHINGTON GAS  
DEBBIE BUNYEA  
RECORDS CLERK  
6802 INDUSTRIAL ROAD  
SPRINGFIELD, VA 22151  
(703)750-4403

**UTILITY NOTES:**

1. UTILITIES SHOWN HEREIN ARE ACCORDANCE WITH AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38-02, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
2. ALL UTILITIES DEPICTED IN THIS FILE ARE QUALITY LEVEL "B" UNLESS OTHERWISE NOTED
3. UTILITIES DEPICTED ACCORDING TO UTILITY RECORDS (DATUR) ARE QUALITY LEVEL "D" AND LABELED "QL-D DATUR".
4. UTILITY SIZE AND TYPE FOR QUALITY LEVEL "B" DEPICTIONS ARE DETERMINED THROUGH AVAILABLE UTILITY OWNER INFORMATION. UTILITIES LABELED AS UNKNOWN HAVE NO CORRELATED RECORDS OR VISIBLE APPURTENANCES TO DETERMINE FUNCTION OR TYPE.
5. UTILITY MAPPING WAS COMPLETED ON 02/11/2019. THERE MAY EXIST UTILITIES THAT ARE UNABLE TO BE ELECTROMAGNETICALLY TONED OR DETECTED BY SUBSURFACE UTILITY EQUIPMENT OR GEOPHYSICAL METHODS. UTILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THIS DATE.
6. RELIANCE UPON THIS DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION.
7. ALL UTILITIES SHOWN HERE IN WERE PERFORMED UNDER THE DIRECTION OF TIMOTHY EDWARD PAYNE, LS. 403003090.

SYMBOL LEGEND	
	TRAVERSE STATION
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	TRASH CAN
	GAS VALVE
	GAS TEST STATION
	GAS WITNESS POST
	UTILITY POLE
	HANDICAP RAMP
	LIGHT POLE
	SIGN
	POST
	BOLLARD
	PROPERTY CORNER
	CRITICAL ROOT ZONE
	SPOT ELEVATION
	BENCHMARK

CONTROL TABLE				
#	NORTHING	EASTING	ELEV.	DESCRIPTION
1	7017946.42	11879003.87	264.42'	ROD & CAP
2	7017977.12	11878731.49	238.51'	ROD & CAP
3	7017791.28	11878859.39	246.17'	ROD & CAP
5	7017869.32	11878601.18	257.93'	ROD & CAP
9	7018054.86	11878598.84	242.43'	ROD & CAP

LINE TYPE LEGEND	
	FENCE / HANDRAIL
	TREELINE / TREELINE CANOPY
	OVERHEAD WIRES
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND WATER LINE
	INDEX CONTOUR
	INTERMEDIATE CONTOUR

TREE TABLE						
#	DIA INCH	TYPE	DRIP FEET	CRZ FEET	NOTE	
1	12	DECIDUOUS	36	12	TWIN	
2	8	POPLAR	36	8		
3	12	MAPLE	30	12		
4	4	BOXWOOD	20	8	TRIPLE	
5	6	SYCAMORE	20	8		
6	4	OAK	10	8		
7	7	HOLLY	24	8	TRIPLE	
8	4	DECIDUOUS	12	8		
9	4	MAPLE	12	8		
10	4	REDBUD	10	8		
11	3	MAPLE	10	8		
12	4	POPLAR	12	8		
13	3	POPLAR	8	8		
14	4	POPLAR	10	8		
15	6	ELM	18	8		
16	6	ELM	18	8		
17	20	HOLLY	30	20		
18	4	MAPLE	10	8		
19	30	CATALPA	40	30		
20	27	CATALPA	40	27		
21	42	OAK	70	42		
22	30	MAPLE	60	30		
23	15	PINE	32	15		
24	42	MAPLE	80	42		
25	48	MAPLE	100	48		
26	6	REDBUD	16	8		
27	5	REDBUD	16	8		
28	6	REDBUD	16	8		
29	6	OAK	16	8		
30	5	OAK	16	8		
31	10	OAK	20	10		
32	10	PINE	24	10		
33	8	LOCUST	24	8		
34	15	PINE	36	15		
35	9	DECIDUOUS	22	9		
36	6	DECIDUOUS	22	8	TWIN	
37	7	DECIDUOUS	24	8	TRIPLE	
38	16	HEMLOCK	24	16	TRIPLE	
39	24	LOCUST	36	24		
40	4	BEECH	16	8		
41	10	CHERRY	20	10		
42	10	LOCUST	20	10		
43	2	DECIDUOUS	6	8		
44	4	CHERRY	10	8		
45	3	SASSAFRAS	8	8		
46	2	DECIDUOUS	6	8		
47	6	CHERRY	12	8		
48	6	OAK	12	8		
49	16	POPLAR	30	16		
50	4	CHERRY	12	8		
51	18	POPLAR	30	18		
52	4	BOXWOOD	12	8		
53	3	BOXWOOD	10	8		
54	20	POPLAR	44	20	TWIN	
55	6	DECIDUOUS	20	8		

ABBREVIATION LEGEND	
ASPH.	ASPHALT
BLDR	BOULDER
CONC.	CONCRETE
CMP	CORRUGATED METAL PIPE
CRZ	CRITICAL ROOT ZONE
DB. PG.	DEED BOOK PAGE
EX.	EXISTING
GRND	GROUND
IPF	IRON PIPE FOUND
RTW	RETAINING WALL
TRV	TRAVERSE
TW	TOP OF WALL
(TYP)	TYPICAL

<b>ARLINGTON COUNTY, VIRGINIA</b> <b>DEPARTMENT OF ENVIRONMENTAL SERVICES</b>			
<b>MARCEY PARK</b> <b>EXISTING CONDITIONS PLAN</b> <b>BY-RIGHT (COUNTY PROJECT)</b>			
SCALE:	DESIGNED:	CHECKED:	COVER
SUBMITTED DATE:	APPROVED DATE:	APPROVED DATE:	
	CHIEF TRANSP. PLANNING BUREAU	CHIEF TRANSP. ENGINEERING BUREAU	
APPROVED DATE:	APPROVED DATE:	APPROVED DATE:	
CHIEF WATER, SEWER, & STR. BUREAU	CHIEF ENGINEERING BUREAU	DIRECTOR OF ENV. SERVICES	
	SHEET	CONTRACT H-	SHEET OF

**SURVEYOR'S CERTIFICATION**

1. THIS PLAT DEPICTING A TOPOGRAPHIC SURVEY OF MARCEY ROAD PARK, IDENTIFIED AS RPC NUMBER 04-011-239, WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF WILLIAM G. LIPPY JR. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION. THE DATA WAS OBTAINED BETWEEN THE DATES OF 01-16-2019, 03-01-2019, AND 12-13-19, THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. REVISION ON 10-21-20 ONLY APPLIES TO UPDATED UTILITY MAPPING AT THE WATER METER.



DEPARTMENT OF PARKS,  
RECREATION AND  
CULTURAL RESOURCES

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.7928  
Fax: 703.228.3328

Project Name and Location

PLAT SHOWING  
TOPOGRAPHIC SURVEY  
THE PROPERTY OF  
COUNTY BOARD OF ARLINGTON,  
VIRGINIA

MARCEY PARK

2722 NORTH MARCEY ROAD

Arlington, Virginia

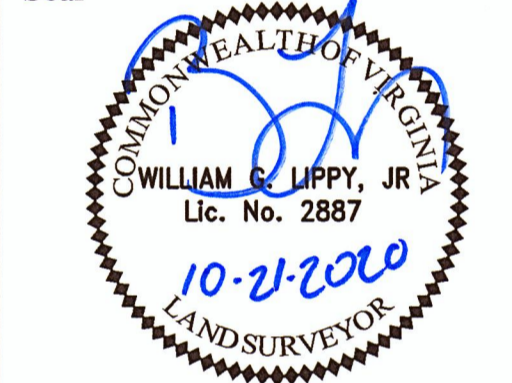
Sheet Title

Base Plan

Prepared by  
**RICE ASSOCIATES**  
LAND SURVEYING · MAPPING CONSULTANTS

10661 GASKINS WAY  
MANASSAS, VIRGINIA 20109  
(703) 968-3200  
FAX (703) 968-2705  
WWW.RICESURVEYS.COM

Seal



Approvals Date

DEPARTMENT DIRECTOR

PLANNING AND DESIGN DIVISION CHIEF

DESIGN TEAM SUPERVISOR

PARK SERVICE AREA MANAGER

URBAN FORESTRY

Revisions Date

Added Trees #40-55 12/18/19  
Added Utility mapping at water meter 10/21/20

Designed:  
Drawn: KRM  
Checked: LS / WGL

Filename: AC150014-TOPO 2D UPDATE 10-21-20

Path: S:\project\AC150014 Marcey Rd Park\DWG\

Plotted: Oct 21, 2020

Scale: 1" = 25'  
Date: April 11, 2019

Sheet

Project Name and Location

PLAT SHOWING  
TOPOGRAPHIC SURVEY  
THE PROPERTY OF  
COUNTY BOARD OF ARLINGTON,  
VIRGINIA

MARCEY PARK

2722 NORTH MARCEY ROAD

Arlington, Virginia

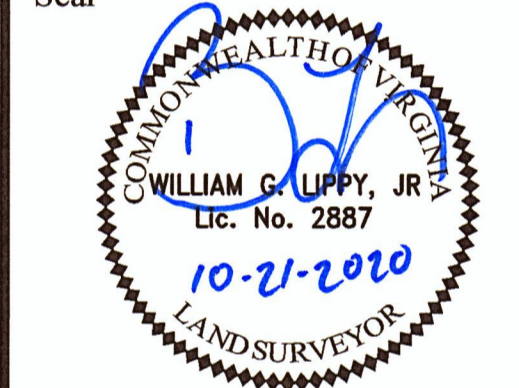
Sheet Title

**Base Plan**

Prepared by  
**RICE ASSOCIATES**  
LAND SURVEYING - MAPPING CONSULTANTS

**RA** 10661 GASKINS WAY  
**RICE** MANASSAS, VIRGINIA 20109  
ASSOCIATES (703) 968-3200  
FAX (703) 968-2705  
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Seal



Approvals Date

DEPARTMENT DIRECTOR \_\_\_\_\_  
PLANNING AND DESIGN DIVISION CHIEF \_\_\_\_\_  
DESIGN TEAM SUPERVISOR \_\_\_\_\_  
PARK SERVICE AREA MANAGER \_\_\_\_\_  
URBAN FORESTRY \_\_\_\_\_

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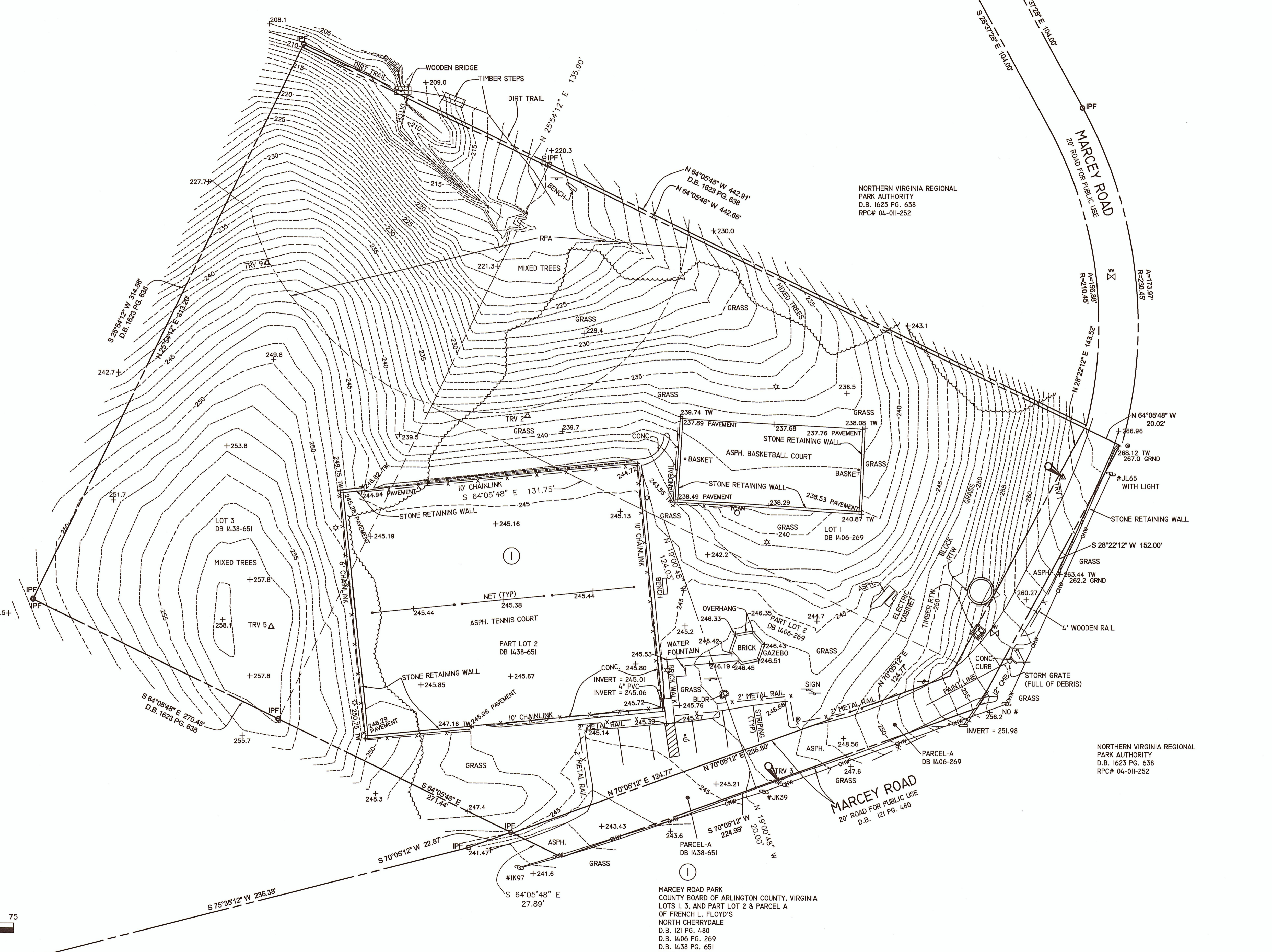
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Date: April 11, 2019

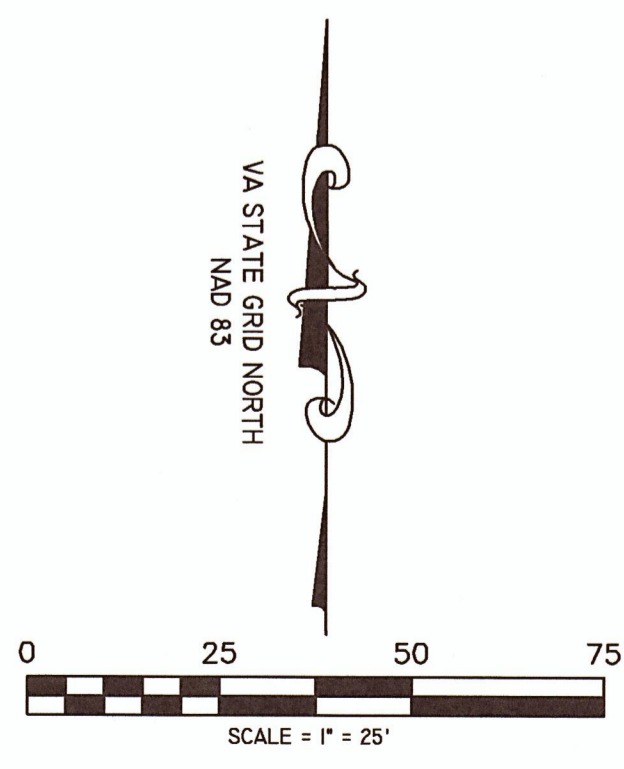
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NORTHERN VIRGINIA REGIONAL  
PARK AUTHORITY  
D.B. 1623 PG. 638  
RPC# 04-011-252

NORTHERN VIRGINIA REGIONAL  
PARK AUTHORITY  
D.B. 1623 PG. 638  
RPC# 04-011-252

MARCEY ROAD PARK  
COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA  
LOTS 1, 3, AND PART LOT 2 & PARCEL A  
OF FRENCH L. FLOYD'S  
NORTH CHERRYDALE  
D.B. 121 PG. 480  
D.B. 1406 PG. 269  
D.B. 1438 PG. 651  
RPC# 04-011-239



Project Name and Location

PLAT SHOWING  
TOPOGRAPHIC SURVEY  
THE PROPERTY OF  
COUNTY BOARD OF ARLINGTON,  
VIRGINIA

MARCEY PARK

2722 NORTH MARCEY ROAD

Arlington, Virginia

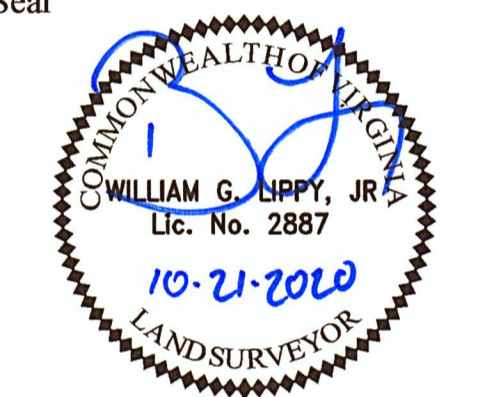
Sheet Title

**Base Plan**

Prepared by  
**RICE ASSOCIATES**  
LAND SURVEYING - MAPPING CONSULTANTS

**RA** 10661 GASKINS WAY  
**RICE** MANASSAS, VIRGINIA 20109  
ASSOCIATES (703) 968-3200  
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Seal



Approvals Date

DEPARTMENT DIRECTOR \_\_\_\_\_

PLANNING AND DESIGN DIVISION CHIEF \_\_\_\_\_

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

PARK SERVICE AREA MANAGER \_\_\_\_\_

URBAN FORESTRY \_\_\_\_\_

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Added Trees #40-55 12/18/19  
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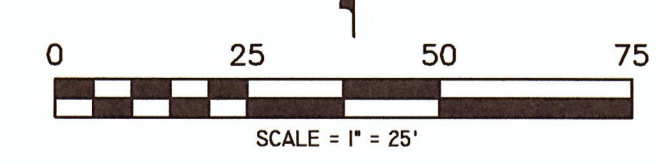
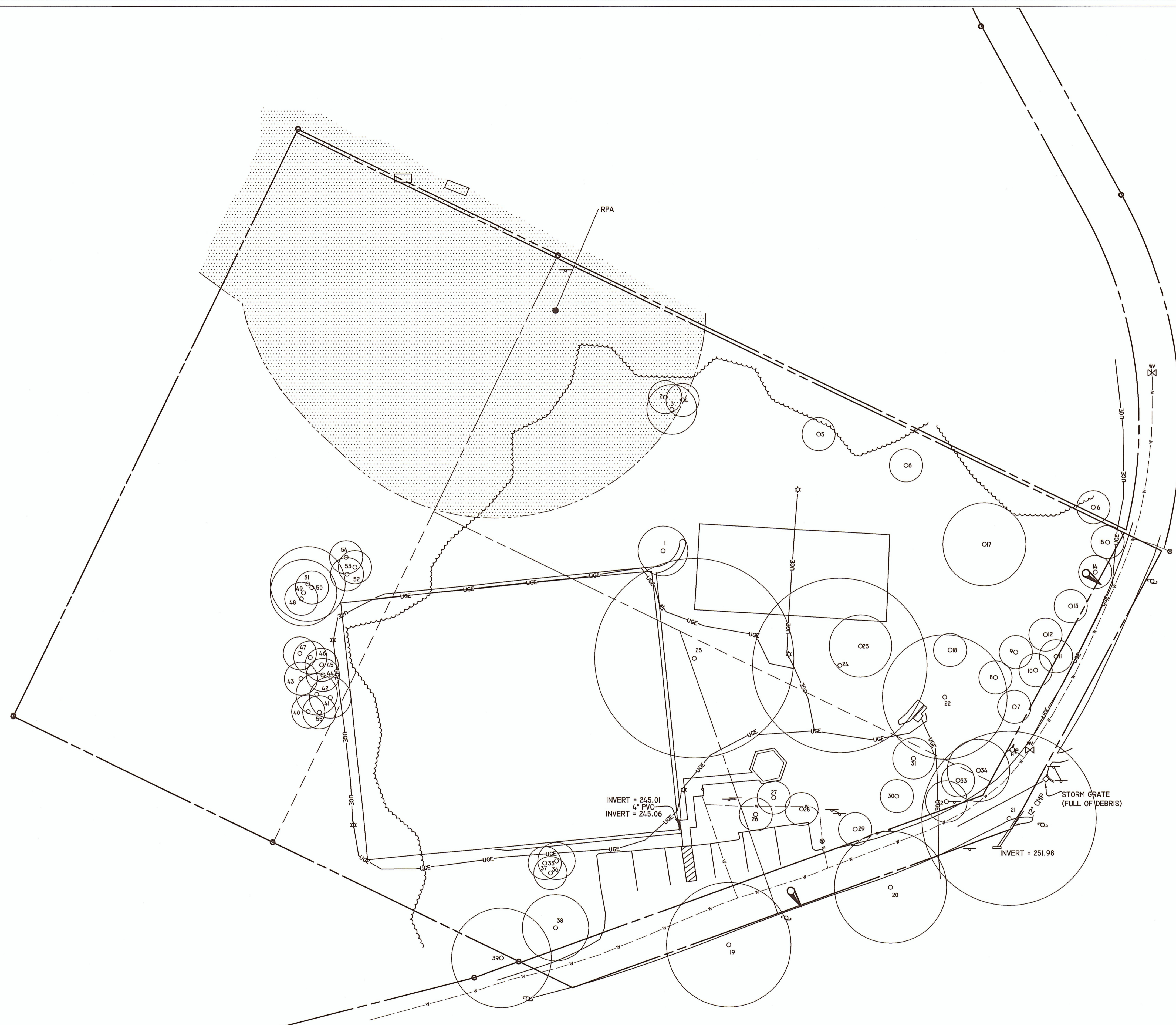
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Path: S:\project\AC150014 Marcey Rd Park\DWG\

Plotted: Oct 21, 2020

Scale: 1" = 25'  
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Sheet

**3 OF 3**







**DEMOLITION SCHEDULE**

SYMBOL	DESCRIPTION
D-104	TREE TO BE REMOVED (AND STUMP GROUND) BY ARLINGTON COUNTY PRIOR TO CONSTRUCTION. THIS TREE HAS BEEN SLATED FOR REMOVAL BY ARLINGTON COUNTY URBAN FORESTER BEFORE THE DESIGN PROCESS BEGAN.

**TREE PROTECTION SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
⬡	TREE TRUNK & LIMB PROTECTION WRAP	1/LF-03
⊗	REMOVE TREE & GRIND STUMP	

SYMBOL	DESCRIPTION	DETAIL
▨	DEMOLITION AS DIRECTED BY THIRD PARTY ARBORIST OR ARLINGTON COUNTY ARBORIST	
▩	DEMOLITION BY HAND REMOVAL	
▧	MULCH MATTING	8/LF-03
▦	TEMPORARY ROOT PROTECTION MATTING	3/LF-03

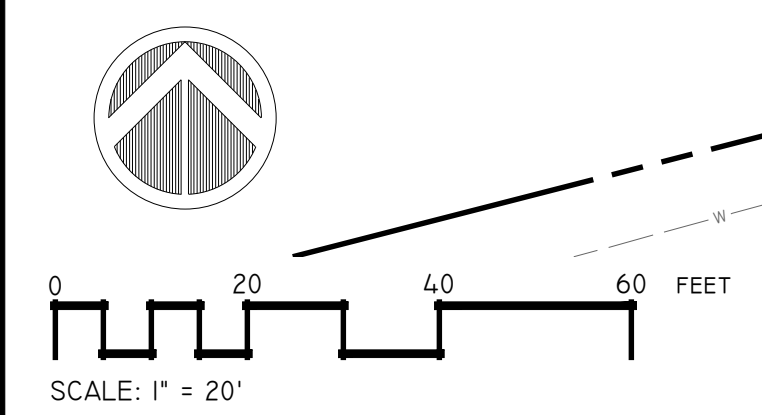
—	TPF	INTERIOR TREE PROTECTION FENCING	4/LF-03
---	L00/TP	EXTERIOR TREE PROTECTION FENCING/ CONSTRUCTION FENCE	4/LF-03
---	LOW	LIMIT OF WORK	
---	RP	ROOT PRUNING	2/LF-03

**GENERAL TREE PRESERVATION NOTES (APPLIES TO PHASE 1 AND PHASE 2):**

- PRESERVE ALL EXISTING TREES WITH THE EXCEPTION OF THOSE THAT ARE SPECIFICALLY MARKED ON THE PLAN FOR REMOVAL, OR UNLESS OTHERWISE DIRECTED BY THE ARLINGTON COUNTY URBAN FORESTER.
- GENERALLY, TREE PROTECTION FENCE IS LOCATED AT THE LIMIT OF DISTURBANCE. THEREFORE, THE LAYOUT OF LINES DEPICTING TREE PROTECTION FENCE IS DIAGRAMMATIC, AND FOR REFERENCE ONLY. PLEASE REFER TO THE TREE PRESERVATION DETAILS FOR MORE INFORMATION.
- CONTRACTOR TO NOTIFY ARLINGTON COUNTY URBAN FORESTER 72 HOURS PRIOR TO INSTALLATION OF ANY TREE PRESERVATION MEASURES SHOWN ON PLANS AND ARLINGTON COUNTY URBAN FORESTER SHALL APPROVE THE LAYOUT OF TREE PRESERVATION MEASURES.
- ARLINGTON COUNTY URBAN FORESTER RESERVES THE RIGHT TO MAKE ADJUSTMENTS TO TREE PROTECTION MEASURES BASED ON CONDITIONS ENCOUNTERED IN THE FIELD.
- ALL ADJUSTMENTS TO THIS PLAN SHALL BE APPROVED BY URBAN FORESTER PRIOR TO SITE WORK.
- CONTRACTOR SHALL COORDINATE TREATMENT (I.E., RADIAL TRENCHING, SUPERSONIC AIR TOOL DECOMPACTION, SOIL COMPOST AMENDMENT, ROOT PRUNING) OF EXISTING TREES WITH COUNTY AS DEEMED NECESSARY.
- IF TREE PROTECTION MEASURES PROVIDED ON THE PLANS AND SPECIFICATIONS ARE NOT FOLLOWED DURING ANY PART OF THE CONSTRUCTION PROCESS, THE URBAN FORESTER MAY ASK FOR THE REMOVAL AND REPLACEMENT OF ANY DAMAGED TREES AT THE CONTRACTOR'S EXPENSE. THIS WILL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND LANDSCAPE ARCHITECT.
- PER SECTION 61-10.C.3 OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE, THE PROPOSED USE OF THIS PROJECT IS EXEMPT FROM THE TREE CANOPY COVERAGE REQUIREMENTS OF THE ORDINANCE.
- THESE LF SHEETS ARE FOR TREE PROTECTION PURPOSES ONLY.
- SEE TREE PROTECTION DETAILS ON LF-03. SEE GRADING PLAN, SITE PLAN, LAYOUT PLAN AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
- SEE TREE SCHEDULE AND PRESERVATION SUMMARY ON LF-04 FOR TREE-BY-TREE LIST OF PROPOSED TREE PRESERVATION MEASURES.

**TREE PRESERVATION SEQUENCE:**

- PRIOR TO PHASE 1**
- AN INDEPENDENT ARBORIST, HIRED BY THE GENERAL CONTRACTOR, SHALL BE ON-SITE DURING DEMOLITION OF EXISTING SITE ELEMENTS AS INDICATED ON THE LEGEND TO MONITOR TREE PRESERVATION MEASURES. INDEPENDENT ARBORIST SHALL OVERSEE DEMOLITION WITHIN CRITICAL ROOT ZONES AND REPORT TO DPR FORESTRY STAFF WITH REGULAR COMMUNICATION AND MONTHLY WRITTEN REPORT, INCLUDING PHOTOGRAPHS, NOTES, PRESERVATION UPDATES AND CONSTRUCTION PROGRESS.
  - CONTRACTOR SHALL COORDINATE AND ARRANGE AN ON-SITE PRE-CONSTRUCTION MEETING WITH ARLINGTON COUNTY ARBORIST, ARLINGTON COUNTY LANDSCAPE ARCHITECT, CONSULTANT LANDSCAPE ARCHITECT, COUNTY THIRD PARTY ARBORIST AND ARLINGTON COUNTY CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF ANY SITE WORK.
  - INSTALL PERIMETER CONSTRUCTION FENCE / TREE PROTECTION FENCE AS INDICATED IN THE DRAWINGS.
  - BEFORE ANY GRADING, DEMOLITION, OR OTHER DISTURBANCE IS PERFORMED (ASIDE FROM THE INSTALLATION OF THE TREE PROTECTION FENCE AND EROSION/SEDIMENT CONTROLS), TREE PROTECTION MEASURES SHALL BE INSTALLED PER PLAN AND INSPECTED/APPROVED BY AN ARLINGTON COUNTY ARBORIST OR THIRD PARTY ARBORIST.
- PHASE 1**
- AS AGREED UPON AT THE FORESTRY PRE-CONSTRUCTION MEETING, AND AS SHOWN ON THESE DRAWINGS, INSTALL ALL INTERIOR TREE PROTECTION MEASURES (INCLUDING BUT NOT LIMITED TO THE TRUNK/LIMB PROTECTION, MULCH MAT, INTERIOR FENCING, ROOT PRUNING).
  - OF PARTICULAR IMPORTANCE IS THE LAYOUT AND INSTALLATION OF THE TEMPORARY ROOT PROTECTION MATTING AND INTERIOR TREE PROTECTION FENCING. THESE ARE SHOWN ON LF-01 BUT ARE SUBJECT TO FIELD LAYOUT MODIFICATIONS AS DEEMED APPROPRIATE BY THE ARLINGTON COUNTY ARBORIST. THERE SHALL BE NO CUT OR EXCAVATION WITHIN TEMPORARY ROOT PROTECTION MATTING AREAS, INTERIOR TREE PROTECTION FENCING, THE ACCESS ROUTE, OR THE MULCH MATTING AREAS.
  - THIS TEMPORARY "TREE PROTECTION ACCESS PATH" PROVIDES HEAVY EQUIPMENT ACCESS TO THE NORTH END OF THE SITE FOR THE FOLLOWING WORK:
    - REFORESTATION PLANTING, PERMANENT REFORESTATION FENCING/SIGNAGE AND MULCH PATH;
    - DEMOLITION OF THE EXISTING BASKETBALL COURT & ASSOCIATED ELEMENTS;
    - CONSTRUCTION OF THE NEW BASKETBALL COURT, FENCING, CONCRETE WALKWAY, STORM DRAIN, GRADING, & ASSOCIATED NEARBY ELEMENTS;
  - MAINTAIN THE "TREE PROTECTION ACCESS PATH" UNTIL DEMOLITION/CONSTRUCTION IN THAT AREA IS COMPLETE, OR UNTIL THE TEMPORARY PATH MUST BE REMOVED IN ORDER TO PROPERLY INSTALL PROPOSED ELEMENTS SUCH AS THE PICNIC SHELTER AND PLAZA. REPLENISH MULCH TO MAINTAIN 6" MINIMUM DEPTH, OR AS REQUIRED BY ARLINGTON COUNTY ARBORIST OR THIRD-PARTY ARBORIST, FOR AS LONG AS CONSTRUCTION VEHICLE ACTIVITY IS OCCURRING IN THE AREA.
  - PROTECT EXISTING WATER METER ON MARCEY ROAD.
  - ACCESS PATH SHALL ALIGN WITH STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON C-05 & C-06.
  - INSTALL TEMPORARY ROOT PROTECTION MATTING OR MULCH MATTING ATOP CRITICAL ROOT ZONES INSIDE THE LOD THAT ARE NOT PROTECTED BY TREE PROTECTION FENCING. LIKE THE ACCESS PATH, THE TEMPORARY MATTING:
    - SHALL NOT BE REMOVED UNTIL ABSOLUTELY NECESSARY TO CONSTRUCT PROPOSED SITE ELEMENTS.
    - SHALL BE USED TO PROTECT THE EXISTING GROUND AND CRITICAL ROOT ZONES FROM SOIL COMPACTION.
    - SHALL REMAIN IN PLACE UNTIL FINAL CONSTRUCTION OR FINAL GRADING NEEDS TO OCCUR, AT WHICH POINT CONSTRUCTION EQUIPMENT SHALL NOT PASS OVER CRITICAL ROOT ZONES WHERE THE PROTECTIVE MATTING ONCE WAS PRESENT.
  - ROOT PRUNE ONLY IN CUT AND EXCAVATED AREAS PER LF-02 AND WHERE INSTRUCTED BY ARLINGTON COUNTY URBAN FORESTER.
  - REMOVE, DEMOLISH OR ABANDON OTHER EXISTING PARK ITEMS, MATERIALS AND HARDSCAPE PER DEMOLITION PLAN C-04. ANY OF THESE ITEMS THAT ARE ALSO WITHIN THE CRITICAL ROOT ZONES SHALL BE REMOVED BY HAND AND/OR UNDER SUPERVISION OF COUNTY OR THIRD-PARTY ARBORIST, AS INDICATED ON THE DRAWINGS. THIS WORK SHALL BE COMPLETED WITHOUT MOVING TREE PROTECTION MEASURES.
  - IN AREAS WHERE EXISTING FULL DEPTH PAVEMENT IS REMOVED BUT NOT REPLACED WITH NEW PAVEMENT ON THE PROPOSED SITE PLAN, THE CONTRACTOR SHALL PROVIDE FILL TO BRING GRADES BACK TO EXISTING CONDITIONS AND IMMEDIATELY STABILIZE UPON COMPLETION. FILLED GRADES SHALL BE A MINIMUM OF 2% TO PROMOTE PROPER DRAINAGE.



**ARLINGTON VIRGINIA**  
 DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**TREE PRESERVATION PLAN - PHASE I**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

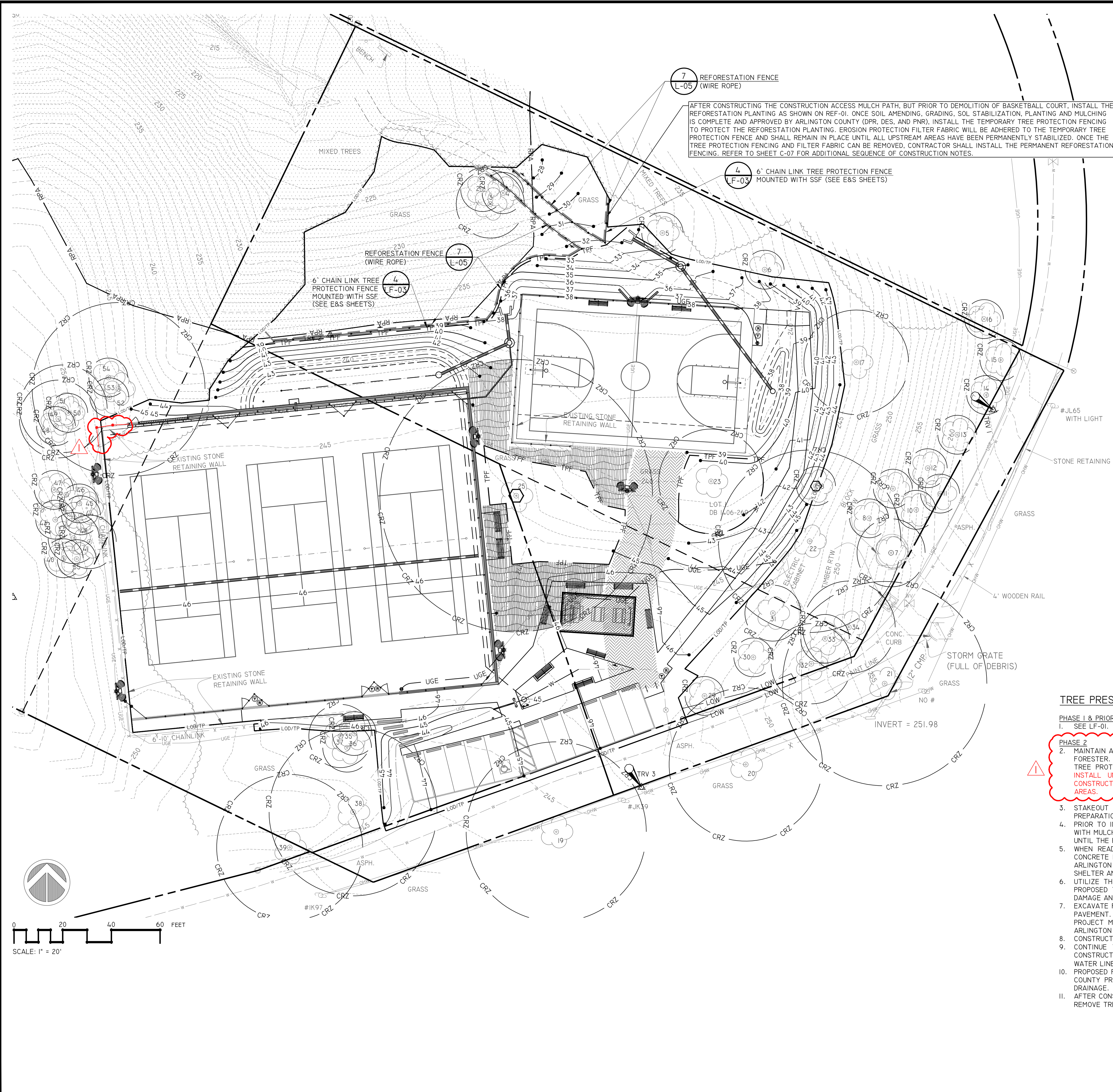
Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: aw  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
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 Plotted: 2021-06-02

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet  
**LF-01**

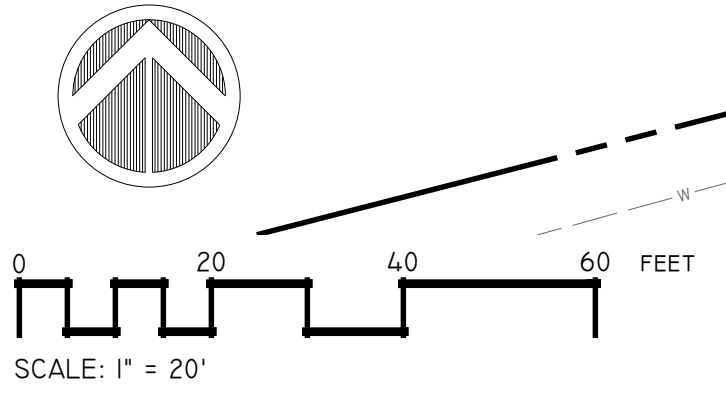


TREE PROTECTION SCHEDULE		
SYMBOL	DESCRIPTION	DETAIL
	TREE TRUNK & LIMB PROTECTION WRAP	1/LF-03
	MULCH MATTING	8/LF-03
	TEMPORARY ROOT PROTECTION MATTING	3/LF-03
	TPF INTERIOR TREE PROTECTION FENCING	4/LF-03
	LOO/TF EXTERIOR TREE PROTECTION FENCING/ CONSTRUCTION FENCE	4/LF-03
	LOW LIMIT OF WORK	
	RP ROOT PRUNING	2/LF-03

AFTER CONSTRUCTING THE CONSTRUCTION ACCESS MULCH PATH, BUT PRIOR TO DEMOLITION OF BASKETBALL COURT, INSTALL THE REFORESTATION PLANTING AS SHOWN ON REF-01. ONCE SOIL AMENDING, GRADING, SOL STABILIZATION, PLANTING AND MULCHING IS COMPLETE AND APPROVED BY ARLINGTON COUNTY (DPR, DES, AND PNR), INSTALL THE TEMPORARY TREE PROTECTION FENCING TO PROTECT THE REFORESTATION PLANTING. EROSION PROTECTION FILTER FABRIC WILL BE ADHERED TO THE TEMPORARY TREE PROTECTION FENCE AND SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED. ONCE THE TREE PROTECTION FENCING AND FILTER FABRIC CAN BE REMOVED, CONTRACTOR SHALL INSTALL THE PERMANENT REFORESTATION FENCING. REFER TO SHEET C-07 FOR ADDITIONAL SEQUENCE OF CONSTRUCTION NOTES.

**TREE PRESERVATION SEQUENCE:**

- PHASE 1 & PRIOR TO PHASE 1**
- SEE LF-01.
- PHASE 2**
- MAINTAIN AND ADJUST TREE PROTECTION MEASURES AS SHOWN ON LF-02 AND AS REQUIRED BY ARLINGTON COUNTY URBAN FORESTER. THERE SHALL BE NO CUT OR EXCAVATION WITHIN TEMPORARY ROOT PROTECTION MATTING AREAS, THE INTERIOR TREE PROTECTION FENCING, CONSTRUCTION ACCESS ROUTE, OR THE MULCH MATTING AREAS, UNLESS AS REQUIRED TO INSTALL UNDERGROUND UTILITIES. COORDINATE ANY CUT REQUIRED IN THESE AREAS WITH ARLINGTON COUNTY'S CONSTRUCTION MANAGER, URBAN FORESTER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCING "CUT" WORK WITHIN THESE AREAS.
  - STAKEOUT PROPOSED SITE ELEMENTS NOT DESCRIBED ON LF-01 FOR CONSTRUCTION AND BEGIN CONSTRUCTION PREPARATION.
  - PRIOR TO INSTALLATION OF THE PLAZA AREA, COVER THE AREA THAT WILL EVENTUALLY RECEIVE CONCRETE PAVEMENT WITH MULCH MATTING. THIS WILL PROTECT TREE #25'S CRITICAL ROOT ZONE FROM COMPACTION AND OTHER DISTURBANCES UNTIL THE RAM IS READY TO BE PLACED.
  - WHEN READY TO CONSTRUCT THE PLAZA AND SHELTER, REMOVE MULCH MATTING FROM THE AREA TO RECEIVE THE CONCRETE PAVEMENT. PLACE FILL AND POUR CONCRETE AS SHOWN ON THE PLANS. MAKE ADJUSTMENTS AS REQUIRED BY ARLINGTON COUNTY URBAN FORESTER TO PROTECT T25 AT NO ADDITIONAL EXPENSE TO THE COUNTY. INSTALL PLAZA, SHELTER AND ASSOCIATED ELEMENTS.
  - UTILIZE THE EXISTING TENNIS COURT PAVEMENT FOR VEHICLE/MACHINE ACCESS TO THE BIORETENTION NORTH OF THE PROPOSED TENNIS COURTS. UTILIZING THE EXISTING TENNIS COURT PAVEMENT PROTECTS EXISTING TREE ROOTS FROM DAMAGE AND COMPACTION.
  - EXCAVATE FOR NEW SEGMENTAL BLOCK RETAINING WALL AND BIORETENTION, KEEPING HEAVY MACHINERY ON THE EXISTING PAVEMENT. THROUGHOUT THE PARK, MAINTAIN PROTECTION MEASURES AND EXISTING PAVEMENT UNTIL THE TEMPORARY PROJECT MEASURES MUST BE REMOVED IN ORDER TO PROPERLY INSTALL THE PROPOSED ELEMENTS. COORDINATE WITH ARLINGTON COUNTY PROJECT OFFICER AND URBAN FORESTER.
  - CONSTRUCT TENNIS COURT AND ALL IT'S ASSOCIATED ELEMENTS, SUCH AS FENCING, TRENCH DRAIN, ETC.
  - CONTINUE THE REST OF THE PARK'S CONSTRUCTION, WHICH IS LARGELY OUTSIDE OF CRITICAL ROOT ZONES. THIS CONSTRUCTION INCLUDES THE ACCESS WALKWAYS TO THE TENNIS COURT AND PLAZA AREA, DRINKING FOUNTAIN/POTABLE WATER LINE, SITE FURNISHINGS, CONDUIT (WITH SUPER SONIC AIR TOOL EXCAVATION WHERE SHOWN) AND PARKING LOT.
  - PROPOSED FINE GRADING SHALL MEET EXISTING GRADE UNIFORMLY TO ENSURE A SMOOTH TRANSITION. NOTIFY ARLINGTON COUNTY PROJECT OFFICER IMMEDIATELY IF THERE ARE ANY EDGE CONDITIONS THAT CREATE AREAS WITHOUT POSITIVE DRAINAGE.
  - AFTER CONSTRUCTION IS COMPLETE, AND WHEN DIRECTED BY ARLINGTON COUNTY PROJECT OFFICER AND URBAN FORESTER, REMOVE TREE PROTECTION MEASURES FROM SITE.



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**TREE PRESERVATION PLAN - PHASE 2**

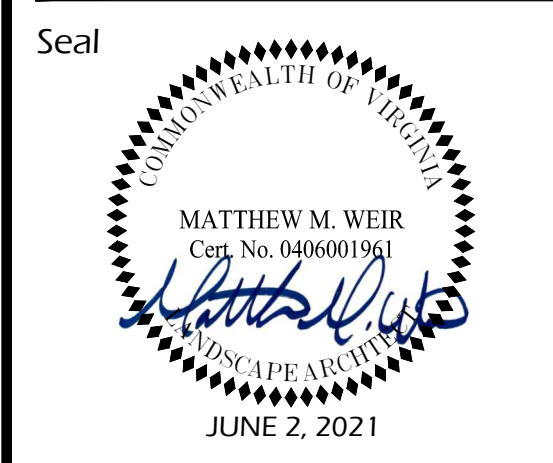
100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_  
 Design Manager \_\_\_\_\_

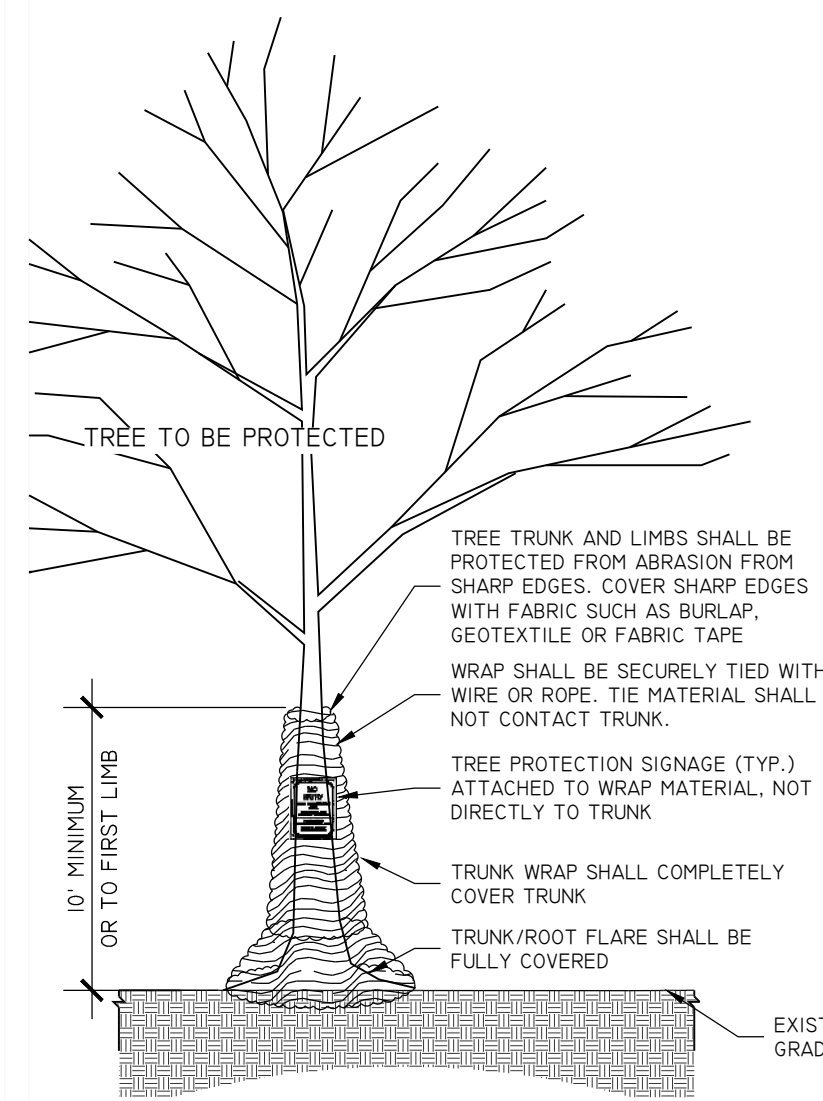
Revisions Date  
**ADDENDUM 2** **7/28/21**

Designed: aw  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: If-01-150396024 site plan.dwg  
 Plotted: 2021-07-28

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet  
**LF-02**

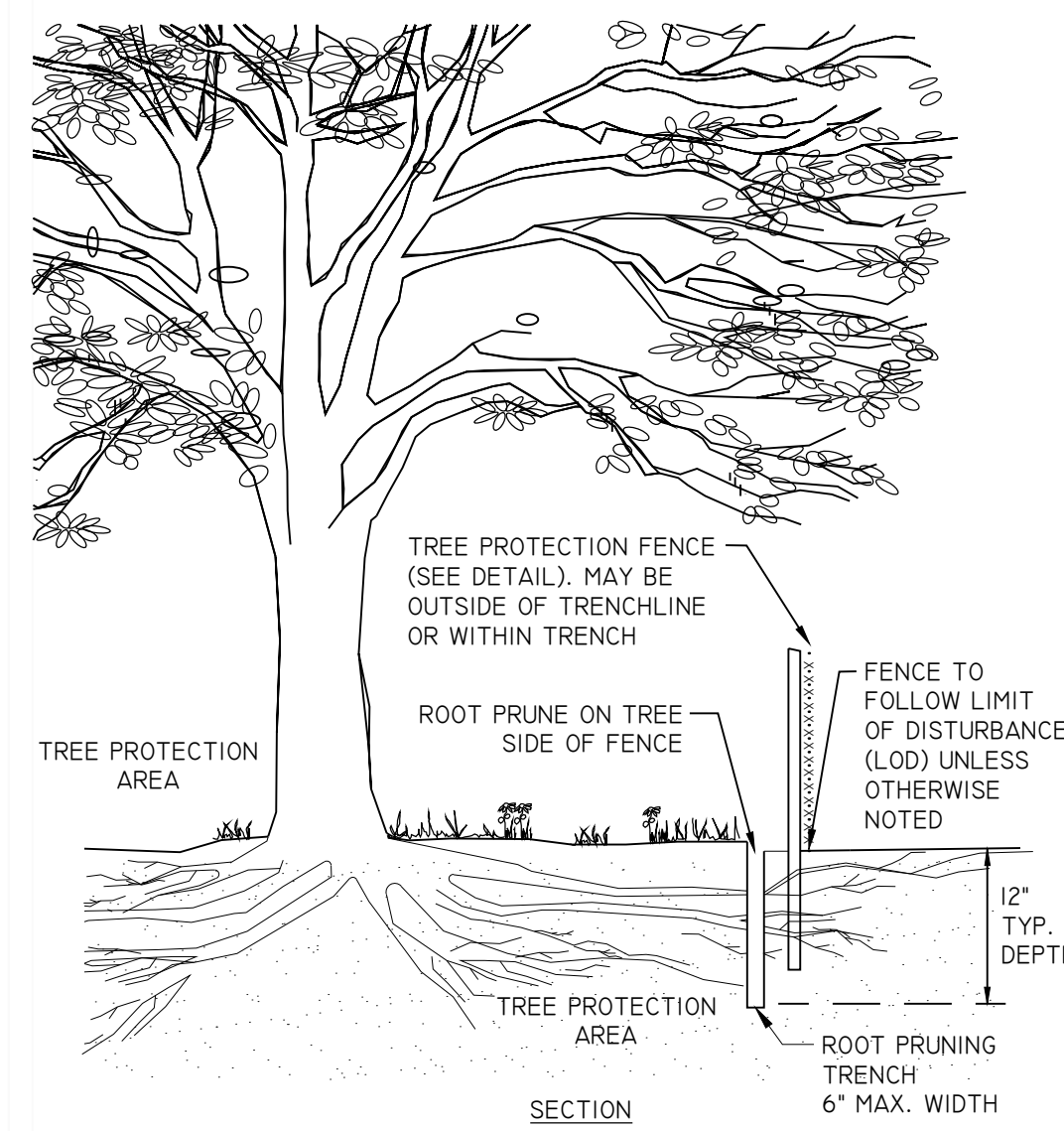


- NOTES:**
1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR AN APPROVED EQUAL.
  2. WRAP SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
  3. WRAP SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
  4. WRAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE WRAP ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO REMOVAL.
  5. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.
  6. MAJOR SCAFFOLD LIMBS MAY ALSO REQUIRE THIS PROTECTION AS DIRECTED BY THE PROJECT ARBORIST OR REQUESTED BY ARLINGTON COUNTY URBAN FORESTER.
  7. WRAP SHALL EXTEND AS HIGH AS ADJACENT MACHINERY THAT IS WORKING ADJACENT TO TREES. PROJECT ARBORIST AND ARLINGTON COUNTY URBAN FORESTER MAY REQUIRE DOUBLE WRAP OR HEAVY DUTY WRAP IN AREAS OF MAJOR EXCAVATION.

**1 TREE TRUNK AND LIMB PROTECTION WRAP**

311300.15NS (2019)

N.T.S.

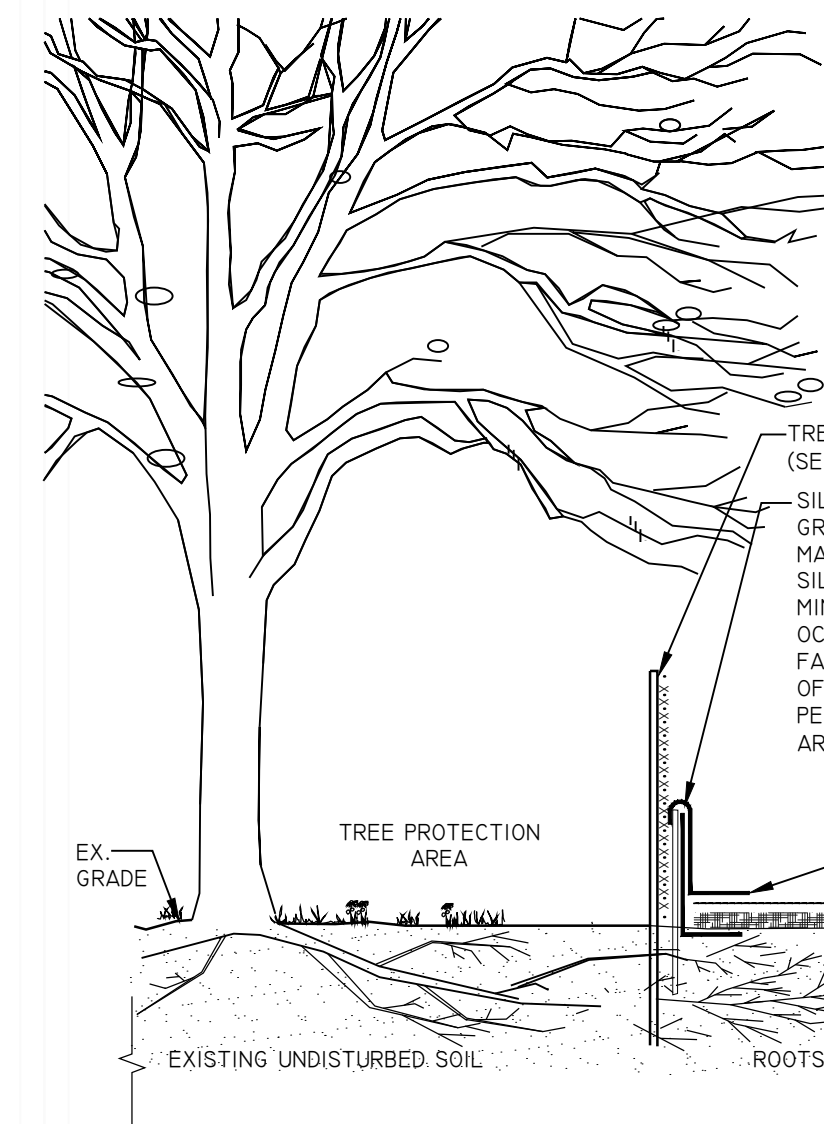


- NOTES:**
1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 12". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT BREAK OR CHOP. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.
  2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING AND SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.
  3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
  4. BACKFILL THE ROOT-PRUNING TRENCH WITH APPROVED LOOSE TOPSOIL MIX AND TOP WITH 3-4" BARK MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.
  5. ROOT PRUNING WORK SHALL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING SHALL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.
  6. THE ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO TRENCHING AND WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.

**2 ROOT PRUNING**

311300.5 (2019)

N.T.S.



- NOTES:**
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR APPROVED EQUIVALENT.
  2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
  3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
  4. MATTING SHALL BE PLACED ON 4-6" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
  5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE MAY BE NEEDED.
  6. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION AND REMOVAL.
- COVER MATTING WITH AGGREGATE FOR HEAVY TRAFFIC USE  
ROOT PROTECTION MATTING ANCHORED BY 12" LANDSCAPE NAILS @ 3' AVERAGE SPACING.  
ROOT PRUNE PER PLAN (SEE DETAIL)

**3 TEMPORARY ROOT PROTECTION MATTING WITHIN CRZ**

311300.2INS

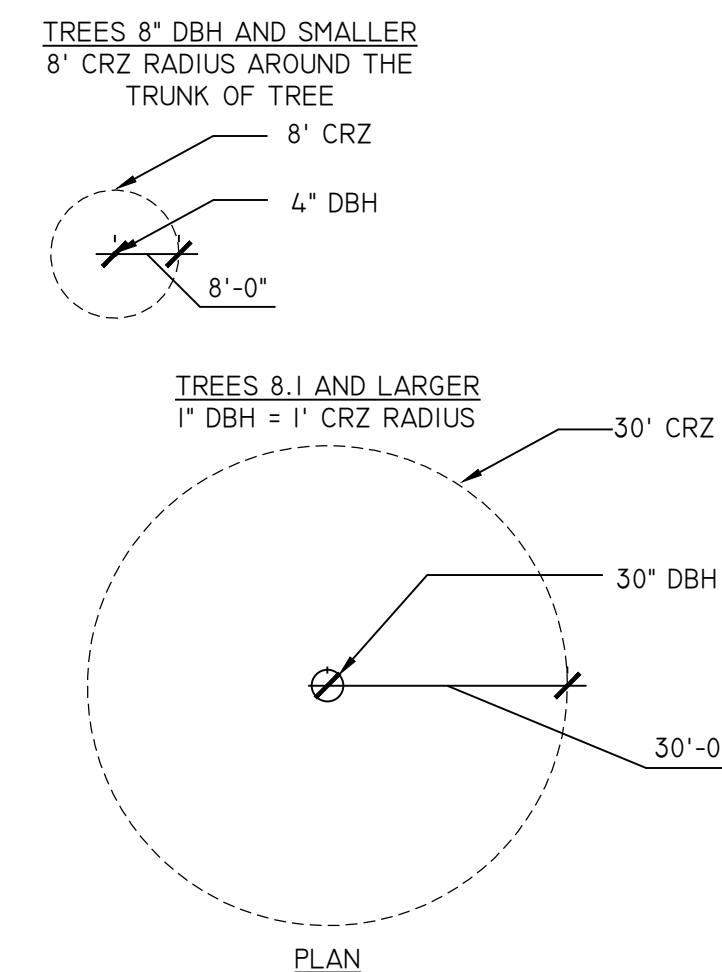
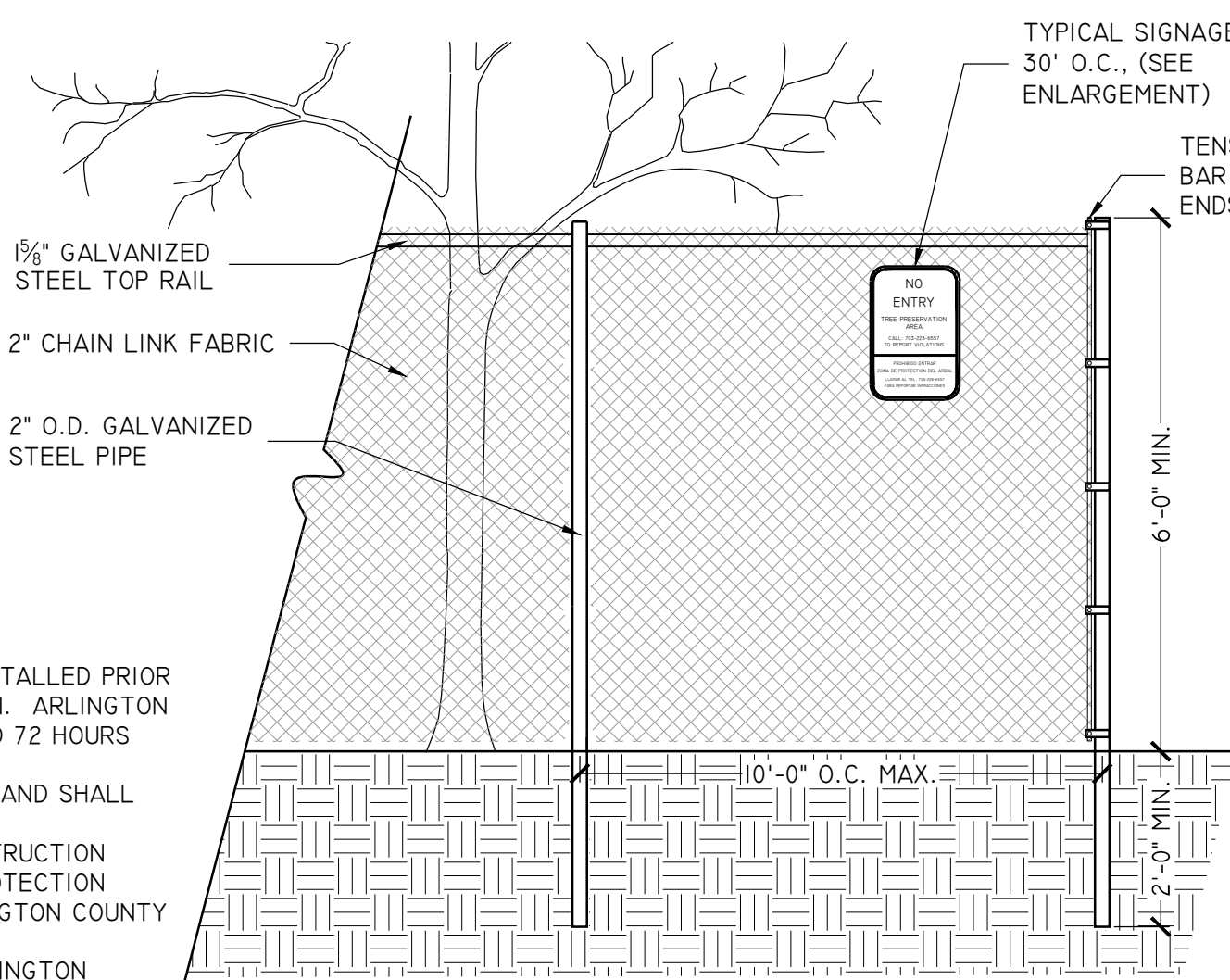
NOT TO SCALE



- 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 OF 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 6\"/>**

1/2" = 1'-0"

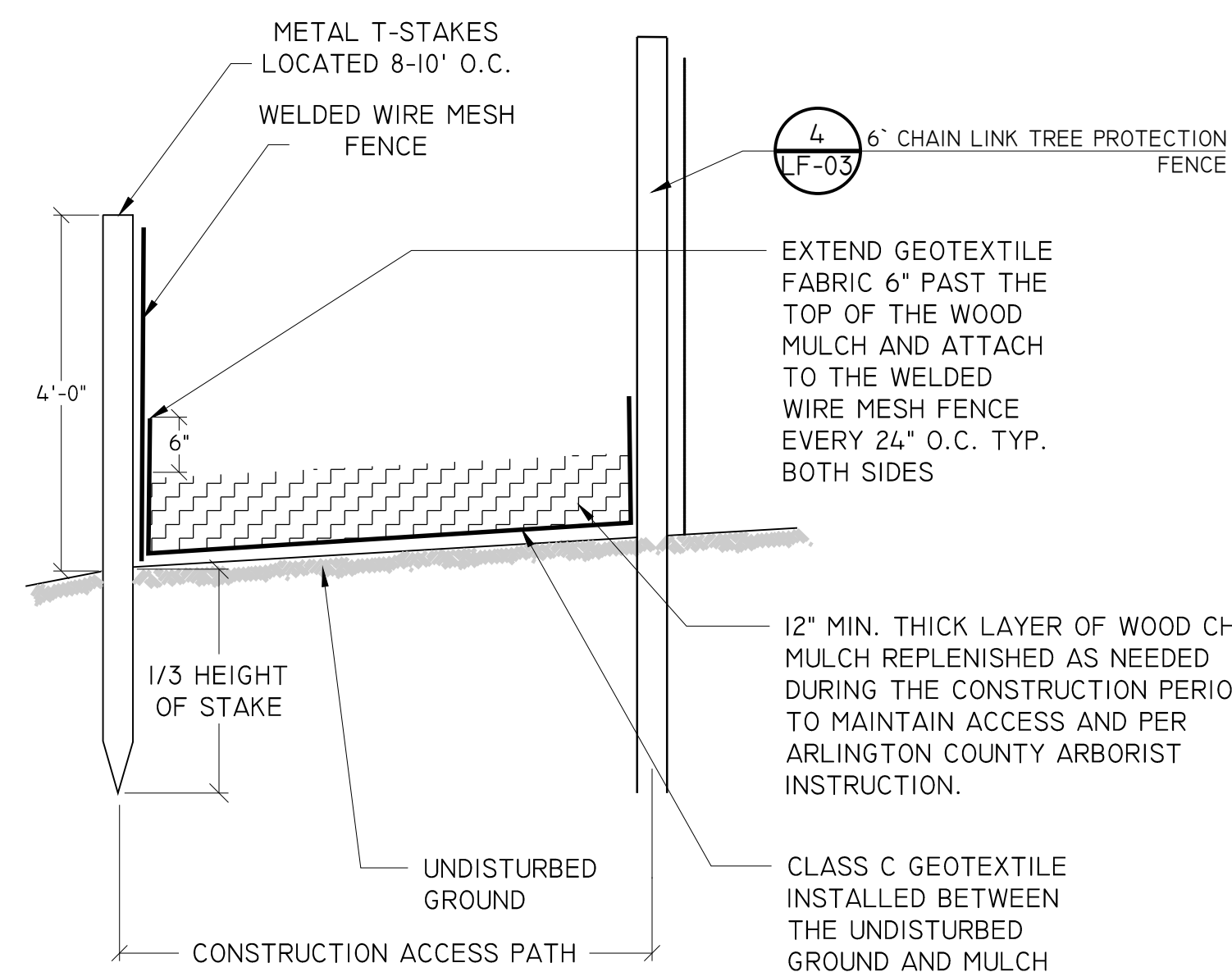


- NOTES:**
1. GRAPHICALLY, THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED AS A CIRCULAR REGION MEASURED OUTWARD FROM A TREE TRUNK REPRESENTING THE AREA OF ROOTS THAT MUST BE MAINTAINED OR PROTECTED FOR THE TREE'S SURVIVAL.
  2. THE CRZ OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF THE ROOTS LAY. 95% OF 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.

**5 TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE**

N.T.S.

**6 NOT USED**



**8 MULCH MAT CONSTRUCTION ACCESS PATH**

NOT TO SCALE

**7 NOT USED**

020102-02



NOTE: % CRZ WITHIN LIMITS OF DISTURBANCE, PRESERVATION MEASURES (PHASE 1), AND PRESERVATION MEASURES (PHASE 2) COLUMNS WILL BE COMPLETED FOR A FUTURE SUBMISSION.

TREE #	SCIENTIFIC NAME	COMMON NAME	DBH (INCHES)	CRITICAL ROOT ZONE (RADIUS)	AMT CONDITION RATING	NOTES:
T1	MALUS SP.	CRABAPPLE SP.	23.00	23.00	53.13	WINTER ID; EROSION AT BASE OF THE TREE FROM TENNIS COURT RUNOFF; WOUND IN TRUNK; POSSIBLE HEART ROT; EPICORMIC GROWTH IN CANOPY
T2	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	9.00	9.00	75.00	SLIGHT LEAN, CROWDED BY ADJACENT MAPLE. ROOTS IN COMPACTED DIRT TRAIL
T3	ACER SACCHARINUM	SILVER MAPLE	14.00	14.00	71.88	NARROW CANOPY; ROOTS IN COMPACTED DIRT TRAIL
T4	BUXUS SEMPERVIRENS	ENGLISH BOXWOOD	8.50	8.50	62.50	MULTI-TRUNK (3", 4", 4", 5.5"); ROOTS IN COMPACTED DIRT TRAIL; ONE OF THE MULTI-STEM TRUNKS HAS A BROKEN LEADER; ONE MULTI-STEM TRUNK PREVIOUSLY REMOVED
T5	PLATANUS X ACERIFOLIA	LONDON PLANE TREE	8.50	8.50	81.25	SLIGHT LEAN
T6	QUERCUS RUBRA	NORTHERN RED OAK	5.50	8.00	81.25	PLANTED TREE; VINES CLIMBING BASE AND INTO CANOPY; WIRE DEAR CAGE AROUND TRUNK
T7	ILEX OPACA	AMERICAN HOLLY	14.00	14.00	59.38	TRIPLE TRUNK (6", 9", 9"); IN TREE WELL/TREE WALL; INVASIVES AT BASE AND CLIMBING TRUNK
T8	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	5.00	8.00	70.31	WOUNDS IN TRUNK
T9	ACER SACCHARUM	SUGAR MAPLE	4.50	8.00	81.25	ON SLOPE; MINOR ROOT DAMAGE
T10	CERCIS CANADENSIS	REDBUD	4.50	8.00	75.00	N/A
T11	ACER RUBRUM	RED MAPLE	3.50	8.00	62.50	SIGNIFICANT DAMAGE TO TRUNK
T12	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	5.50	8.00	70.31	LEANING; POOR FORM; TWO LEADERS; ON STEEP SLOPE
T13	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	4.50	8.00	73.44	TWO LEADERS (ONE LARGER AND ONE SMALLER); INCLUDED BARK
T14	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	5.00	8.00	73.44	SLIGHT LEAN; MINOR DAMAGE AT BASE
T15	ULMUS AMERICANA	AMERICAN ELM	8.50	8.50	79.69	N/A
T16	ULMUS AMERICANA	AMERICAN ELM	6.50	8.00	71.88	ON STEEP SLOPE
T17	ILEX OPACA	AMERICAN HOLLY	21.50	21.50	71.88	TRIPLE LEADERS IN CANOPY. VINES CLIMBING TRUNK
T18	ACER SACCHARUM	SUGAR MAPLE	4.00	8.00	82.81	N/A
T19	CATALPA SPECIOSA	NORTHERN CATALPA	37.00	37.00	43.75	MAJOR WOUND BASE; LEANING; HEART ROT; EPICORMIC GROWTH; OVERHEAD LINES; HAZARD TREE; ROOTS UNDER PAVEMENT
T20	CATALPA SPECIOSA	NORTHERN CATALPA	31.50	31.50	40.63	MAJOR WOUND BASE; LEANING; HEART ROT; EPICORMIC GROWTH; OVERHEAD LINES; HAZARD TREE; ROOTS UNDER PAVEMENT
T21	ACER SACCHARINUM	SILVER MAPLE	42.00	42.00	43.75	ROOTS UNDER PAVEMENT; WOUNDS AT BASE; HEART ROT; VINES AT BASE AND CLIMBING; BROKEN LIMBS; HAZARD TREE; OVERHEAD LINES
T22	ACER RUBRUM	RED MAPLE	37.50	37.50	73.44	VINES CLIMBING
T23	PICEA ABIES	NORWAY SPRUCE	21.50	21.50	71.88	N/A
T24	ACER SACCHARINUM	SILVER MAPLE	49.00	49.00	71.88	POSSIBLE HEART ROT IN TRUNK AND LEADER; BROKEN AND ROTTEN LOWER LIMB IS A HAZARD
T25	ACER SACCHARINUM	SILVER MAPLE	56.00	56.00	75.00	A FEW BROKEN LIMBS IN CANOPY
T26	CERCIS CANADENSIS	REDBUD	6.50	8.00	71.88	N/A
T27	CERCIS CANADENSIS	REDBUD	6.00	8.00	71.88	N/A
T28	CERCIS CANADENSIS	REDBUD	7.50	8.00	68.75	EPICORMIC GROWTH AT BASE
T29	QUERCUS RUBRA	NORTHERN RED OAK	7.50	8.00	73.44	TWO LEADERS IN CANOPY; ROOTS UNDER ROAD
T30	QUERCUS RUBRA	NORTHERN RED OAK	5.50	8.00	81.25	N/A
T31	QUERCUS RUBRA	NORTHERN RED OAK	11.50	11.50	81.25	N/A
T32	PINUS STROBUS	EASTERN WHITE PINE	16.50	53.13	53.13	MAJOR LEAN; MAJOR WOUND; ROOTS UNDER ROAD
T33	ROBINIA PSEUDOACACIA	BLACK LOCUST	10.00	10.00	68.75	ON SLOPE; LEANING; VINES IN CANOPY
T34	ROBINIA PSEUDOACACIA	BLACK LOCUST	19.00	19.00	73.44	A FEW BROKEN LIMBS
T35	MAGNOLIA X SOULANGEANA	CHINESE MAGNOLIA	9.00	9.00	64.06	WOUND AT BASE
T36	MAGNOLIA X SOULANGEANA	CHINESE MAGNOLIA	10.00	10.00	73.44	DOUBLE TRUNK (6", 8")
T37	MAGNOLIA X SOULANGEANA	CHINESE MAGNOLIA	13.00	13.00	73.44	TRIPLE TRUNK (7", 7.5", 8")
T38	TSUGA CANADENSIS	EASTERN HEMLOCK	34.50	34.50	67.19	TRIPLE TRUNK (15", 20", 24"); SHALLOW SURFACE ROOTS; VINES AT BASE
T39	ROBINIA PSEUDOACACIA	BLACK LOCUST	30.00	30.00	29.69	ON BANK; LEANING; HEART ROT; VINES; HAZARD TREE; PREVIOUSLY REMOVED LEADER
T40	FAGUS GRANDIFOLIA	AMERICAN BEECH	4.00	8.00	82.81	VINES CLIMBING
T41	PRUNUS SEROTINA	BLACK CHERRY	11.00	11.00	73.44	SLIGHT LEAN; VINES
T42	ROBINIA PSEUDOACACIA	BLACK LOCUST	10.50	10.50	78.13	MAJOR VINES
T43	BETULA LENTA	BLACK BIRCH	2.00	8.00	70.31	THIN CANOPY
T44	PRUNUS SEROTINA	BLACK CHERRY	4.00	8.00	65.63	VINES TAKING OVER CANOPY
T45	ROBINIA PSEUDOACACIA	BLACK LOCUST	2.50	8.00	71.88	THIN CANOPY; CROWDED
T46	O	STANDING DEAD	0.00	0.00	0.00	STANDING DEAD
T47	PRUNUS SEROTINA	BLACK CHERRY	7.50	8.00	75.00	MAJOR LEAN OVER TENNIS COURT; VINES
T48	QUERCUS PRINUS	CHESTNUT OAK	6.00	8.00	65.63	VINES ON TRUNK AND IN CANOPY
T49	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	16.00	16.00	85.94	VINES ON TRUNK AND IN CANOPY
T50	PRUNUS SEROTINA	BLACK CHERRY	4.00	8.00	60.94	VINES ON TRUNK AND IN CANOPY; MAJOR LEAN; CROWDED
T51	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	18.00	18.00	79.69	VINES ON TRUNK AND CLIMBING; THIN CANOPY
T52	ACER NEGUNDO	BOX ELDER	5.00	8.00	71.88	SPROUTS AT BASE; VINES AT BASE; CROWDED
T53	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	35.50	35.50	70.31	DOUBLE TRUNK (22", 28"); MAJOR VINES ON TRUNK AND IN CANOPY; INCLUDED BARK
T54	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	17.00	17.00	79.69	CROWDED; THIN CANOPY
T55	LIRIODENDRON TULIPIFERA	YELLOW POPLAR	7.50	8.00	56.25	MAJOR LEAN; POOR FORM; BROKEN LIMBS; VINES

CONTRACTOR SHALL REFER TO THE TREE PRESERVATION PLANS FOR SPECIFIC PROTECTION MEASURES. IN THE EVENT OF A DISCREPANCY BETWEEN THE PRESERVATION MEASURES (PHASE I & II) LISTED IN THIS TREE TABLE AND THE TREE PRESERVATION PLANS, THE PLANS SHALL GOVERN.

TPF = TREE PROTECTION FENCE  
 TP = TRUNK PROTECTION  
 TRPM = TEMPORARY ROOT PROTECTION MATTING  
 RP = ROOT PRUNING  
 MM = MULCH MATTING  
 RAM = ROOT AERATION MATTING  
 HAND REMOVAL = HAND DEMO OF EXISTING INFRASTRUCTURE WITHIN CRITICAL ROOT ZONE (THE TREE ITSELF IS NOT TO BE REMOVED)  
 DEMO AS DIRECTED = DEMOLITION AS DIRECTED BY THIRD PARTY ARBORIST OR ARLINGTON COUNTY ARBORIST (THE TREE ITSELF IS NOT TO BE REMOVED)

**TREE IDENTIFICATION, CONDITIONS AND RETENTION POTENTIAL:**

NOTE 1: TREE SPECIES NAMED REPRESENT THE PROFESSIONAL JUDGMENT OF THE PREPARER. THERE ARE A VARIETY OF REASONS IDENTIFICATION CAN BE INCONCLUSIVE: WINTER IDENTIFICATION IS LESS RELIABLE THAN DURING THE GROWING SEASON. PROPER IDENTIFICATION CAN ONLY BE MADE ON THE BASIS OF FLOWERING PARTS, WHICH ARE OFTEN ABSENT. WHILE THE NAMED GENERA ARE FELT TO BE RELIABLE, SOME SPECIES AND HYBRIDS ARE LESS CERTAIN. ONE EXAMPLE IS THE DISTINCTION BETWEEN QUERCUS SPECIES: Q. RUBRA, Q. BOREALIS, Q. PALUSTRIS AND Q. FALCATA ARE ALL CLASSIFIED AS "RED OAKS", AND THEY ARE NOTABLE FOR FREELY HYBRIDIZING. EVEN EXAMINATION OF FLORAL PARTS IS OFTEN INCONCLUSIVE. THE GENERA MALUS AND CRATAEGUS POSE A SIMILAR CHALLENGE.

NOTE 2: NO WARRANTY, EXPRESSED OR IMPLIED, CAN BE MADE WITH RESPECT TO TREE SAFETY, FITNESS OR SURVIVAL. THE COMMENTARY ABOUT INDIVIDUAL TREES NOTES SOME ACTUAL OR POTENTIAL DEFECTS TO BE CONSIDERED. HOWEVER, HIDDEN FACTORS AND UNFORESEEABLE EVENTS MAY BE HIGHLY SIGNIFICANT, WHILE SOME OF THE POTENTIAL PROBLEMS NOTED MAY NOT. THE PROPOSED DISTURBANCES WILL HAVE SOME ADVERSE IMPACT UPON THE REMAINING TREES. OTHER STRESSES SUCH AS DISEASE, WIND, SUNSCALD, AIR POLLUTION, REFLECTED HEAT AND LIGHT, INSUFFICIENT OR EXCESS RAINFALL CAN COMBINE TO CAUSE ADDITIONAL DAMAGE OR DEATH TO A TREE. ANY RECOMMENDED ACTIONS ARE INTENDED TO PARTIALLY OFFSET FORESEEABLE DAMAGE. HOWEVER, TREES SHOULD BE MONITORED AND ADDITIONAL CORRECTIVE MEASURES OR REMOVAL MAY BE NECESSARY.

NOTE: PER SECTION 6I-10.C.3 OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE, THE PROPOSED USE OF THIS PROJECT IS EXEMPT FROM THE TREE CANOPY COVERAGE REQUIREMENTS OF THE ORDINANCE.

NOTE: THIS PLAN IS FOR TREE PROTECTION/FOREST CONSERVATION PURPOSES ONLY.

TREE REPLACEMENTS							
SPECIES	TREE ID NUMBER	NUMBER OF TREES REMOVED	DBH (INCHES)	CONDITION	SPECIES RATING	TOTAL SCORE	REPLACEMENTS REQUIRED
MALUS SP.	T1	1	23	0.5313	0.5	6.11	2
ACER SACCHARUM	T24	1	49		-		REPLACEMENT NOT INCLUDED IN THIS CONTRACT
CERCIS CANADENSIS	T26	1	6.5		-		1
CERCIS CANADENSIS	T27	1	6		-		1
CERCIS CANADENSIS	T28	1	7.5		-		1
						TOTAL	5
*SHADED CELLS INDICATE TREES WITH 10" DBH AND SMALLER, WHICH ARE AUTOMATICALLY REPLACED AT A RATE OF ONE-FOR-ONE ACCORDING TO THE POLICY.							
SEE PLANTING PLAN FOR TREE REPLACEMENTS.							



DEPARTMENT OF PARKS AND RECREATION

Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

21-DPR-ITB-646

Project Name and Location

# Marcey Road Park Improvements (By Right)

(County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title

## EXISTING TREE TABLE - TREE CONDITION SUMMARY

100% Construction Drawings

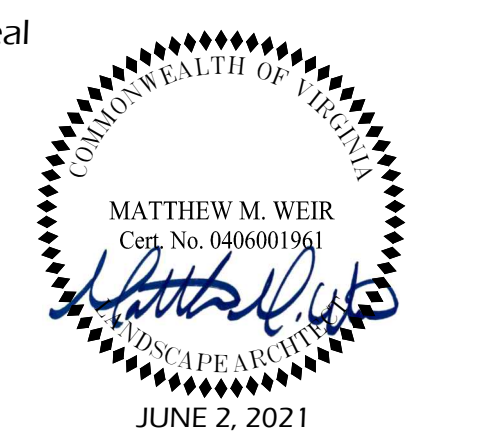
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Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

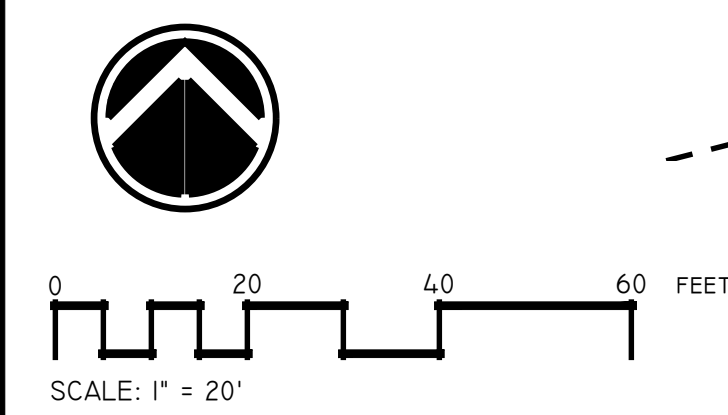
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 Plotted: 2021-06-02

Scale: N.T.S.  
 Date: JUNE 2, 2021



Sheet

LF-04



**DEMOLITION NOTES SCHEDULE**

SYMBOL	DEMOLITION DESCRIPTION	SYMBOL	DESCRIPTION
D-101	SAW CUT EXISTING PAVEMENT AT LOCATION SHOWN ON SITE PLAN AND LAYOUT PLAN	R	EXISTING ITEM TO BE RELOCATED TO LOCATION DETERMINED BY DPR LANDSCAPE ARCHITECT AND PROJECT OFFICER. RELOCATE EXISTING BOULDER PER 4/IL-01.
D-102	PROTECT EXISTING UNDERGROUND ELECTRIC LINE THROUGHOUT DEMOLITION AND CONSTRUCTION. SEE ELECTRICAL/UTILITY PLANS. ADJUST ELEVATION/ DEPTH AS NECESSARY TO INTEGRATE NEW HARDSCAPE, WALLS AND OTHER PROPOSED INFRASTRUCTURE	P	EXISTING ITEM TO BE PROTECTED AND PRESERVED (DO NOT DISTURB OR ALTER)
D-104	TREE TO BE REMOVED (AND STUMP GROUND) BY ARLINGTON COUNTY PRIOR TO CONSTRUCTION	X	EXISTING ITEM TO BE DEMOLISHED (OR REMOVED) AND LEGALLY DISPOSED. INCLUDES ITEM, FOOTINGS AND ANY OTHER ELEMENTS ASSOCIATED WITH THIS ITEM.
TH	UTILITY TEST HOLE	┌	CAP EXISTING UTILITY
		▭	TREE PROTECTION DESCRIPTION
		○	TREE TRUNK & LIMB PROTECTION WRAP
		⊗	REMOVE TREE & GRIND STUMP

SYMBOL	DESCRIPTION
▨	EXISTING TENNIS/BASKETBALL COURT TO BE DEMOLISHED AND REMOVED. REMOVE ASPHALT LAYER AND SUBBASE/AGGREGATE. EXISTING SUBBASE/AGGREGATE MATERIAL MAY BE REUSED IF IT MEETS ALL REQUIREMENTS OF THE SPECIFICATIONS AND CONSTRUCTION DETAILS (I.E., DEPTH, COMPACTION, STONE TYPE, ETC.), AND IF APPROVED BY PROJECT OFFICER.
▧	EXISTING CONCRETE TO BE DEMOLISHED AND REMOVED. DEMOLISH FULL DEPTH, INCLUDING ANY SUBBASE AND AGGREGATE.
▩	EXISTING BRICK WALKWAY TO BE DEMOLISHED AND REMOVED. DEMOLISH FULL DEPTH, INCLUDING ANY SUBBASE AND AGGREGATE.
▪	EXISTING ASPHALT TO BE DEMOLISHED AND REMOVED. DEMOLISH FULL DEPTH, INCLUDING ANY SUBBASE AND AGGREGATE.
▬	EXISTING WALL TO BE DEMOLISHED AND REMOVED. DEMOLISH FULL DEPTH, INCLUDING ANY SUBBASE AND AGGREGATE.
▭	EXISTING GAZEBO TO BE DEMOLISHED AND REMOVED. DEMOLISH FULL DEPTH, INCLUDING ANY PAVEMENT, SUBBASE, AGGREGATE AND FOOTERS.
▬	EXISTING CHAIN LINK FENCE, RAILING, AND GATES TO BE DEMOLISHED AND REMOVED, INCLUDING FOOTERS.
▬	EXISTING UTILITY TO BE REMOVED OR ABANDONED (AS DIRECTED BY ARLINGTON COUNTY PROJECT OFFICER)
---	LIMIT OF DISTURBANCE/TREE PROTECTION FENCE
---	LIMIT OF WORK

**DEMOLITION NOTES:**

- LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE LIMIT OF DISTURBANCE PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCY TO THE PROJECT OFFICER. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 811 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
- THE DEMOLITION PLAN IS A GENERAL GUIDE OF WHAT ITEMS NEED TO BE DEMOLISHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL ITEMS THAT REQUIRED DEMOLITION TO COMPLETE THE PROPOSED CONSTRUCTION.
- CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING SITE STRUCTURES AND FEATURES NOT SCHEDULED FOR DEMOLITION AND/OR CONSTRUCTION FROM DAMAGE DUE TO DEMOLITION PROCEDURES. ANY RESULTING DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE PROJECT OFFICER.
- TEMPORARY CONSTRUCTION FENCING SHALL BE ERECTED AS SHOWN ON THE PLANS PRIOR TO BEGINNING CONSTRUCTION OPERATIONS AND MAINTAINED UNTIL COMPLETION OF PROJECT. TREE PROTECTION AND CONSTRUCTION FENCE SHALL BE THE SAME WHEREVER THEY OVERLAP.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SAFETY AND SECURITY AT THE PROJECT SITE FOR THE DURATION OF THE CONTRACT.
- CONTRACTOR SHALL COORDINATE WITH THE PROJECT OFFICER TO IDENTIFY ANY NECESSARY STAGING/STORAGE AREAS. PROPOSED STAGING AND STORAGE AREAS SHALL BE REVIEWED AND APPROVED BY THE PROJECT OFFICER, AND THE LIMITS OF WORK WILL BE ADJUSTED ACCORDINGLY.
- ANY STOCKPILING, REGARDLESS OF LOCATION ON SITE, SHALL BE STABILIZED IMMEDIATELY AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT. STOCKPILES SHALL BE CONTAINED BY STRAW BALES OR EROSION CONTROL FENCING AND COVERED WITH PLASTIC OR CANVAS AT THE END OF EACH WORK DAY FOR THE DURATION OF THE PROJECT.
- WHERE ITEMS TO BE REMOVED OCCUR WITHIN TREE PROTECTION ZONES, THE CONTRACTOR SHALL REMOVE THE ITEMS WORKING WITH A COUNTY ARBORIST (PROVIDED BY COUNTY) ON-SITE TO OBSERVE AND MINIMIZE TREE DAMAGE. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT FIVE BUSINESS DAYS PRIOR TO THESE REMOVALS.
- CARE SHALL BE TAKEN TO PRESERVE EXISTING TREES AND THEIR ROOT SYSTEMS. TREES INCURRING ROOT DAMAGE DUE TO CONSTRUCTION SHALL BE PRUNED AND FERTILIZED PER THE SPECIFICATIONS.
- NO MATERIALS OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION AREA. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN A FINE OF \$500 PER DAY OF VIOLATION.
- UNAUTHORIZED TREE REMOVALS, TREE DEATH OR SEVERE DAMAGE DUE TO THE CONTRACTOR'S FAILURE TO EXERCISE PROPER CARE WHEN WORKING NEAR TREES, SHALL RESULT IN A FINE EQUAL TO THE LANDSCAPE VALUE OF THE TREE AS PUBLISHED IN THE LATEST EDITION OF THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS GUIDE FOR PLANT APPRAISALS PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE.
- COUNTY ARBORIST INSPECTION IS REQUIRED PRIOR TO ANY SITE LAND DISTURBANCE ACTIVITY.
- DEMOLITION STAGE EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION.
- ALL MATERIAL FROM DEMOLITION NOT IDENTIFIED FOR REUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPROPRIATE REGULATIONS.
- ALL PAVEMENT REMOVED SHALL BE DONE SUCH THAT REMAINING PAVEMENT IS LEFT WITH CLEAN STRAIGHT EDGE. CONCRETE PAVEMENT/ CURBING SHALL BE REMOVED TO THE NEAREST JOINT.
- EXISTING PAVEMENT SHALL BE SAW CUT WHEN NEXT TO REMAINING PAVEMENT BEFORE REMOVAL. ALL SAW CUTS SHALL BE STRAIGHT, EVEN CUTS. JAGGED CUTS WILL NOT BE PERMITTED.
- CHAIN LINK FENCE REMOVED: INCLUDES ALL FENCE POSTS AND CONCRETE FOOTINGS.
- CONCRETE REMOVAL: SHALL INCLUDE CONCRETE, STEEL REINFORCEMENT, AND GRAVEL BASE WHERE NO PROPOSED CONCRETE WILL BE INSTALLED.
- ASPHALT REMOVAL: SHALL INCLUDE SURFACE, BASE AND SUBBASE MATERIALS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY SITE FURNISHINGS WITHIN THE LIMITS OF DISTURBANCE NOT REMOVED FROM SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION (IE SIGNAGE, BENCHES, TRASH RECEPTACLES, ETC).
- CONTRACTOR SHALL PROVIDE EXISTING DAMAGE PHOTOS PRIOR TO MOBILIZING OR PERFORMING ANY WORK. LOCATIONS OF PICTURES TO BE RECORDED ON THIS SHEET.
- TO PREVENT DAMAGES OUTSIDE THE LIMITS OF DISTURBANCE, NO PARK AREAS OUTSIDE THE LOD SHALL BE USED FOR STAGING OR STORAGE.
- UPON COMPLETION OF THE PROJECT, ALL EXCESS SOIL, SAND, MULCH, TEMPORARY FENCING, EROSION CONTROL MEASURES, STABILIZATION MATERIALS, AND OTHER DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. ALL PAVED AREAS, WALLS, ETC. SHALL BE THOROUGHLY WASHED AND CLEANED UPON COMPLETION OF THE PROJECT.
- REFER TO SITE CLEARING, DEMOLITION, & REMOVALS SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL INITIATE OUTREACH TO UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED. IF UTILITY COMPANIES REQUIRE THE UTILITY ACCOUNT OWNER (I.E., ARLINGTON COUNTY) TO REQUEST THE UTILITY SHUTOFF, THE GENERAL CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY OF THIS REQUIREMENT. THE GENERAL CONTRACTOR SHALL COORDINATE TIMING OF SHUTOFF AND ASSOCIATED UTILITY WORK WITH ARLINGTON COUNTY AND THE RESPECTIVE UTILITY COMPANY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING APPROPRIATE TIME IN THE CONSTRUCTION SCHEDULE TO ALLOW FOR UTILITY COMPANIES TO PROCESS THE WORK ORDER REQUEST WITHOUT A DELAY TO THE CONSTRUCTION SCHEDULE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CAPPING AND CONTINUATION OF UTILITY SERVICES AS NEEDED.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT OCCURS TO ANY EXISTING SITE ELEMENT THAT IS NOT MARKED FOR DEMOLITION DURING CONSTRUCTION AND MUST REPLACE AT NO COST TO ARLINGTON COUNTY IF DAMAGED.
- CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT AND PROJECT OFFICER IF ANY ITEMS/INFORMATION IS NOT LISTED OR CALLED OUT, SO AN APPROPRIATE SOLUTION CAN BE DISCUSSED. CONTRACTOR SHALL HAVE WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT AND PROJECT OFFICER PRIOR TO ANY FURTHER SITE WORK.
- CONTRACTOR SHALL PERFORM UTILITY TEST HOLE TO DETERMINE EXACT LOCATION AND CONDITION OF THE EXISTING ON-SITE WATERLINE. COORDINATE TEST HOLE WITH ARLINGTON COUNTY PROJECT OFFICER. IN CONSULTATION AND AGREEMENT WITH ARLINGTON COUNTY PROJECT OFFICER, IF THE EXISTING ON-SITE WATER LINE IS IN GOOD WORKING CONDITION, CONTRACTOR SHALL CUT THE EXISTING WATERLINE FOR NEW WATERLINE CONNECTION AT THE TEST HOLE LOCATION. OTHERWISE, CONTRACTOR SHALL REMOVE ADDITIONAL EXISTING WATERLINE AS NEEDED UP TO THE PRIVATE SIDE OF THE 5/8" WATER METER AND MAKE NEW WATERLINE CONNECTION AT NO ADDITIONAL EXPENSE TO ARLINGTON COUNTY.

**RESTORATION NOTE:**  
IN AREAS WHERE FULL DEPTH PAVEMENT IS DEMOLISHED, CONTRACTOR SHALL PROVIDE FILL TO BRING GRADES BACK TO EXISTING CONDITIONS AND IMMEDIATELY STABILIZE UPON COMPLETION. FINAL GRADES SHALL BE A MINIMUM OF 2% TO PROMOTE PROPER DRAINAGE.

**TREE PROTECTION NOTE:**  
SEE TREE PRESERVATION SHEETS AND DETAILS FOR ADDITIONAL REQUIREMENTS BEFORE, DURING AND AFTER DEMOLITION PHASE.



**ARLINGTON VIRGINIA**  
DEPARTMENT OF PARKS AND RECREATION  
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**21-DPR-ITB-646**


Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**DEMOLITION PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_  
Design Manager \_\_\_\_\_

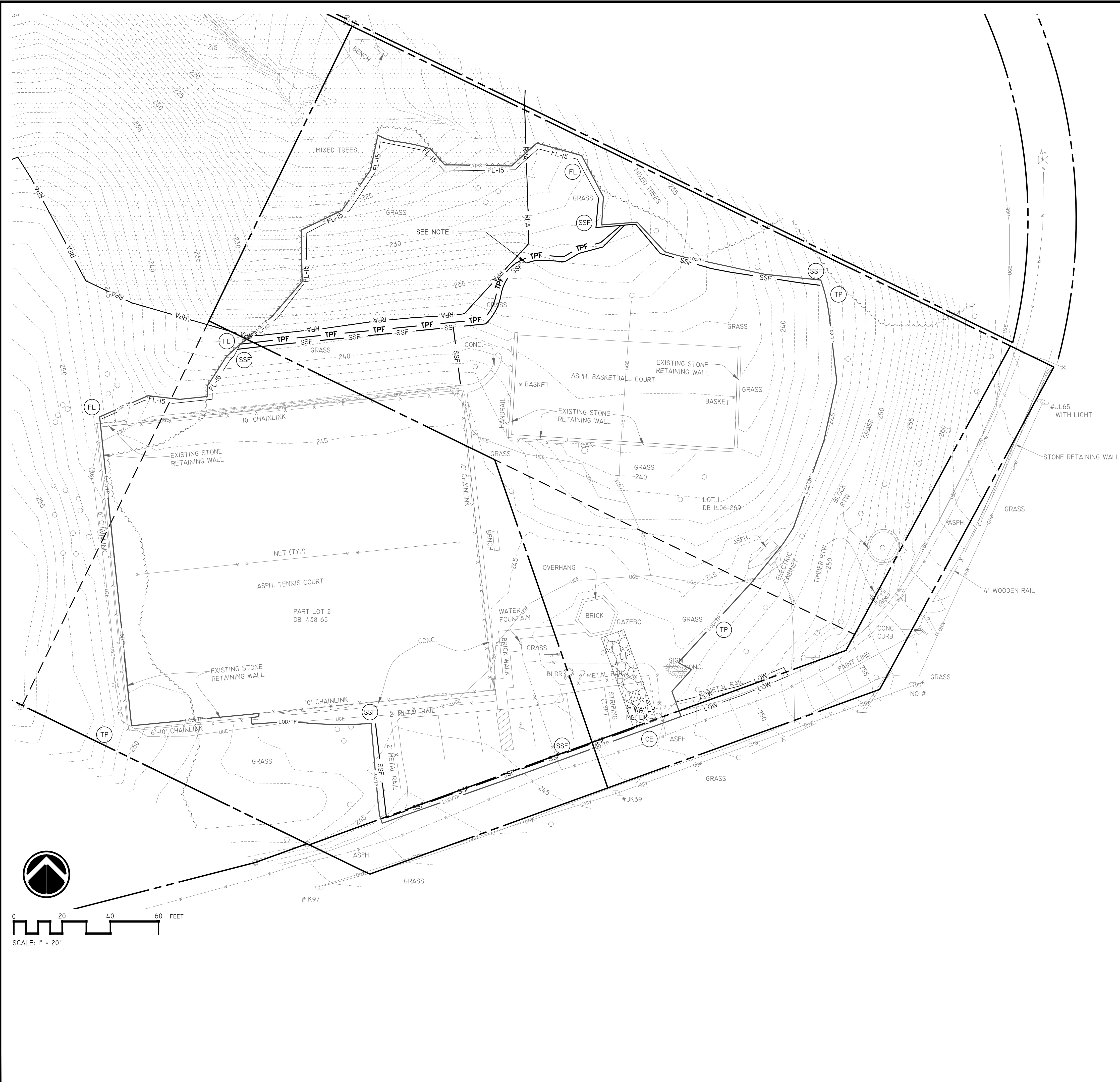
Revisions  Date  
**ADDENDUM 2** **7/28/21**

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB  
Filename: c-04-150396024 demo plan.dwg  
Plotted: 2021-07-28

Scale: 1" = 20'  
Date: JUNE 2, 2021



Sheet  
**C-04**



**EROSION AND SEDIMENT CONTROL LEGEND**

NO.	KEY	SYMBOL	DESCRIPTION
		---	PROPERTY LINE
		---	RESOURCE PROTECTION AREA
3.38	TP	LOD/TP	LIMITS OF DISTURBANCE/TREE PROTECTION FENCE (DETAIL 4/LF-03)
		---	LIMITS OF WORK
3.02	CE	[Hatched Box]	10' X40' MODIFIED CONSTRUCTION ENTRANCE WITH WASH RACK
3.05	SSF	---	SUPER SILT FENCE
3.04	FL	FL-15	15" FILTER LOG

**EROSION AND SEDIMENT CONTROL NOTES:**

- WHERE BOTH SUPER SILT FENCE AND TREE PROTECTION FENCE ARE SHOWN, THE FILTER FABRIC SHALL BE ADHERED TO THE TREE PROTECTION FENCE.
- WHERE FILTER LOG IS SHOWN ADJACENT TO TREE PROTECTION FENCE, STAKE FILTER LOG DIRECTLY NEXT TO TREE PROTECTION FENCE.
- SEE LF-01 FOR INSTRUCTIONS ON PHASING/SEQUENCING OF TEMPORARY TREE PROTECTION FENCE NEAR REFORESTATION AREA.
- CONTRACTOR SHALL PROVIDE SUPER SILT FENCE PROTECTION AROUND PROPOSED BIORETENTION PRIOR TO CONSTRUCTION ACTIVITIES TO PROTECT THE SOILS IN THAT AREA FROM COMPACTION.

**TREE PROTECTION NOTES:**

- REFER TO LF-01 TO LF-04 FOR TREE PROTECTION REQUIREMENTS, SEQUENCING, PLACEMENT, DETAILS, NOTES AND TREE TABLE.
- CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY URBAN FORESTER 72 HOURS PRIOR TO INSTALLATION OF ANY TREE PRESERVATION MEASURES.
- TREE PROTECTION MEASURES SHALL BE INSTALLED CONCURRENTLY, OR PRIOR TO, THE INSTALLATION OF THE E&S MEASURES. TREE PROTECTION SHALL BE INSPECTED/APPROVED BY ARLINGTON COUNTY ARBORIST.



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**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**EROSION AND SEDIMENT CONTROL - PHASE I**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

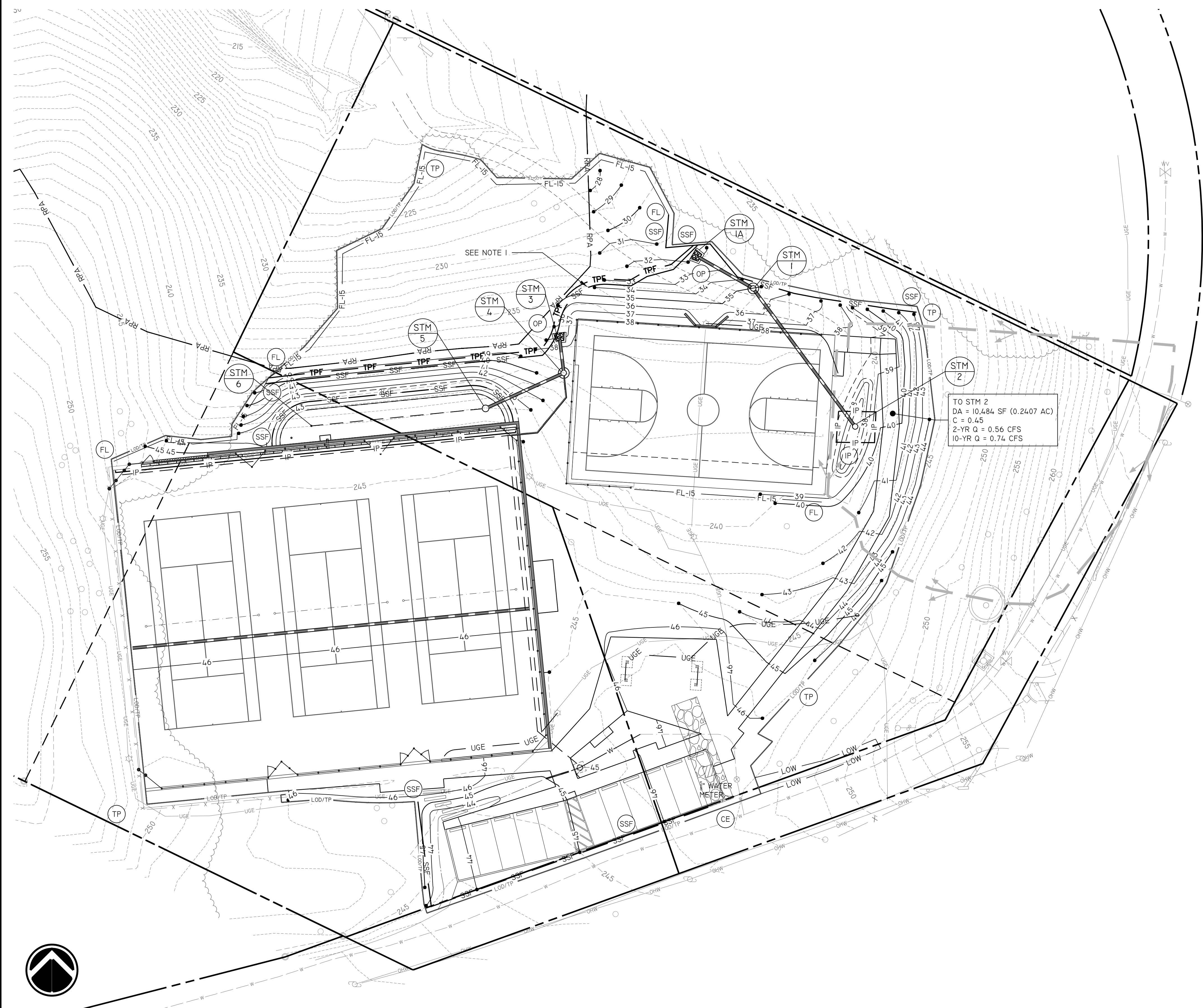
Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB

Filename: c-05-150396024 erosion and sediment control phase I.dwg  
 Plotted: 2021-06-02

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet  
**C-05**



**EROSION AND SEDIMENT CONTROL LEGEND**

NO.	KEY	SYMBOL	DESCRIPTION
		---	PROPERTY LINE
		—	RESOURCE PROTECTION AREA
3.38	TP	— LOD/TPF	LIMITS OF DISTURBANCE/TREE PROTECTION FENCE (DETAIL 4/LF-03)
		—	LIMITS OF WORK
3.02	CE	[Hatched]	10' x 40' MODIFIED CONSTRUCTION ENTRANCE WITH WASH RACK
3.05	SSF	[Wavy]	SUPER SILT FENCE
3.05	SF	[Dashed]	SILT FENCE
3.04	FL	[Line with 15]	15' FILTER LOG
3.07	IP	[Line with IP]	INLET PROTECTION
3.18	OP	[Hatched]	OUTLET PROTECTION (SEE SHEET C-16)
		---	DRAINAGE DIVIDE

**EROSION AND SEDIMENT CONTROL NOTES:**

- WHERE SUPER SILT FENCE IS SHOWN ADJACENT TO TREE PROTECTION FENCE, THE FILTER FABRIC SHALL BE ADHERED TO THE TREE PROTECTION FENCE.
- WHERE FILTER LOG IS SHOWN ADJACENT TO TREE PROTECTION FENCE, STAKE FILTER LOG DIRECTLY NEXT TO TREE PROTECTION FENCE.
- TREE PROTECTION FENCE PROPOSED ALONG THE TENNIS COURT FENCE SHALL BE A SEPARATE TEMPORARY FENCE.
- SEE LF-01 FOR INSTRUCTIONS ON PHASING/SEQUENCING OF TEMPORARY TREE PROTECTION FENCE NEAR REFORESTATION AREA.
- CONTRACTOR SHALL MAINTAIN SUPER SILT FENCE PROTECTION AROUND PROPOSED BIORETENTION UNTIL UPSTREAM AREAS ARE STABILIZED AND FACILITY INSTALLATION BEGINS.

**TREE PROTECTION NOTES:**

- REFER TO LF-01 TO LF-04 FOR TREE PROTECTION REQUIREMENTS, SEQUENCING, PLACEMENT, DETAILS, NOTES AND TREE TABLE.
- CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY URBAN FORESTER 72 HOURS PRIOR TO INSTALLATION OF ANY TREE PRESERVATION MEASURES.
- TREE PROTECTION MEASURES SHALL BE INSTALLED CONCURRENTLY, OR PRIOR TO, THE INSTALLATION OF THE E&S MEASURES. TREE PROTECTION SHALL BE INSPECTED/APPROVED BY ARLINGTON COUNTY ARBORIST.



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**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**EROSION AND SEDIMENT CONTROL - PHASE II**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 c-06-150396024 erosion and sediment control phase ii.dwg  
 Plotted: 2021-06-02

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet  
**C-06**

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

TYPE OF DEVELOPMENT: RENOVATION OF A TENNIS COURT, BASKETBALL COURT, PARKING AND PATHS. THERE WILL BE AN INCREASE IN IMPERVIOUS AREA THEREFORE, A LEVEL I BIORETENTION FACILITY AND REFORESTATION WILL PROVIDE STORMWATER QUALITY AND QUANTITY MANAGEMENT IN ACCORDANCE WITH THE JANUARY 2013 DRAFT VERSION 2.0 SPECIFICATION 9 OF THE VIRGINIA DEQ DESIGN SPECIFICATIONS AND SUPPLEMENTED BY THE MARCH 2020 ARLINGTON COUNTY STORMWATER MANUAL.

TOTAL AREA OF DISTURBANCE: 1.3056 ACRES

EXISTING SITE CONDITIONS

EXISTING SLOPES: 1-72%

OVERALL, IN BOTH THE PRE-DEVELOPED AND POST-DEVELOPED CONDITIONS, THE SITE DRAINS TO THE NORTHWEST.

ADJACENT PROPERTIES

NORTH: POTOMAC OVERLOOK REGIONAL PARK
EAST: POTOMAC OVERLOOK REGIONAL PARK
SOUTH: DONALDSON RUN RECREATION ASSOCIATION
WEST: POTOMAC OVERLOOK REGIONAL PARK

OFF-SITE AREAS

THERE IS NO PROPOSED CONSTRUCTION ON ADJACENT PROPERTIES.

SOILS

GLENELG LOAM, 8 TO 15 PERCENT SLOPES; GLENELG-MANOR COMPLEX, 15 TO 35 PERCENT SLOPES;

THE SITE CONSISTS OF MOSTLY GLENELG LOAM AT VARYING SLOPES WITH GLENELG-MANOR COMPLEX SOIL IN THE NORTHERN PART OF THE SITE. GLENELG LOAM AND GLENELG-MANOR ARE HYDROLIGIC GROUP B SOILS.

CRITICAL EROSION AREAS

THERE IS A RESOURCE PROTECTION AREA WITHIN THE LIMITS OF DISTURBANCE. REFER TO THE WOIA NARRATIVE ON SHEET C-25 FOR A DETAILED DESCRIPTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES AND OTHER MITIGATION STRATEGIES.

EROSION AND SEDIMENT CONTROL MEASURES

PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST BE APPLIED WITHIN 7 DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED.

STRUCTURAL PRACTICES

CONSTRUCTION ENTRANCE - 3.02

INSTALL A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK OVERTOP THE EXISTING TRAIL AS SHOWN. THE EXISTING TRAIL SURFACE WILL REMAIN IN PLACE THROUGHOUT CONSTRUCTION. WASH ALL CONSTRUCTION VEHICLES LEAVING THE SITE AS NECESSARY TO ENSURE THAT SEDIMENT WILL NOT LEAVE THE SITE. DIRECT WASH WATER TO NEAREST SEDIMENT CONTROL DEVICE.

SUPER SILT FENCE

INSTALL SUPER SILT FENCE AND SILT FENCE BARRIER DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW. WHERE SUPER SILT FENCE IS SHOWN ADJACENT TO TREE PROTECTION FENCE, ADHERE SUPER SILT FABRIC DIRECTLY TO TREE PROTECTION FENCE.

TREE PRESERVAION & PROTECTION - 3.38

INSTALL TREE PROTECTION FENCING TO PROTECT TREES FROM MECHANICAL AND OTHER INJURY DURING LAND DISTURBING AND CONSTRUCTION ACTIVITY.

FILTER LOG - 3.04

INSTALL A 15" FILTER LOG BARRIER DOWNSLOPE OF AREA WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW.

INLET PROTECTION - 3.07

INSTALL SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET.

VEGETATIVE MEASURES

1. TOPSOILING (STOCKPILE)

TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE STABILIZED WITH TEMPORARY VEGETATION WITHIN 14 DAYS.

2. TEMPORARY SEEDING

DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN A PERIOD OF 14 DAYS WILL HAVE TEMPORARY VEGETATION ESTABLISHED. TEMPORARY VEGETATION WILL REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AND OFF-SITE AREAS. TEMPORARY SEEDING PLANT MATERIAL SHALL BE RAPIDLY GROWING PLANTS SELECTED FROM VESCH STANDARD #3, VESCH SPEC. 3.32-#8B. EROSION CONTROL BLANKETS ARE TO BE INSTALLED OVER FILL SLOPES, WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDDED. THIS WILL PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW THE SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS ACCORDING TO SPEC. 3.35. IN ALL SEEDING OPERATIONS, SEED, FERTILIZER AND LIME WILL BE APPLIED PRIOR TO MULCHING. SOIL TESTS SHOULD BE USED TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. THE PLANTING SOIL MUST HAVE ENOUGH FINE GRAINED SOIL, SUFFICIENT PORE SPACE, SUFFICIENT DEPTH AND BE FREE FROM TOXIC OR EXCESSIVE QUANTITIES OF ROOTS AND SHALL BE APPLIED IN ACCORDANCE WITH STD. 3.30.

3. PERMANENT SEEDING

IF SEEDING IS BEING USED, ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISHED GRADING. SEEDING SHALL BE DONE WITH KENTUCKY 31 TALL FESCUE ACCORDING TO MINIMUM STANDARD #3, VESCH SPEC. 3.32-#8B. EROSION CONTROL BLANKETS ARE TO BE INSTALLED OVER FILL SLOPES, WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDDED. THIS WILL PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW THE SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS ACCORDING TO SPEC. 3.35. IN ALL SEEDING OPERATIONS, SEED, FERTILIZER AND LIME WILL BE APPLIED PRIOR TO MULCHING. SOIL TESTS SHOULD BE USED TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. THE PLANTING SOIL MUST HAVE ENOUGH FINE GRAINED SOIL, SUFFICIENT PORE SPACE, SUFFICIENT DEPTH AND BE FREE FROM TOXIC OR EXCESSIVE QUANTITIES OF ROOTS AND SHALL BE APPLIED IN ACCORDANCE WITH STD. 3.30.

5. SODDING

IF SOD IS BEING USED, AREAS THAT ARE TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE PLANS. SOIL TESTS SHOULD BE USED 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 PLATE 3.33-1 OF THE VESCH.

6. DUST CONTROL

DUST SHALL BE MINIMIZED AS MUCH AS PRACTICABLE.

SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION NARRATIVE

SEQUENCE OF CONSTRUCTION - PHASE 1

A. CONTRACTOR TO HAVE CONSTRUCTION WORKER PARKING, HAUL ROUTE, AND EXCAVATION PROTECTION PLAN APPROVED BY ARLINGTON COUNTY.
B. CONTRACTOR TO SUBMIT SEDIMENT DISPOSAL PLAN TO ARLINGTON COUNTY INSPECTOR FOR APPROVAL.
C. INSTALL SUPER SILT FENCE (SSF), TREE PROTECTION (TP), FILTER LOG (FL), AND CONSTRUCTION ENTRANCE (CE).
D. DEMOLISH AND REMOVE EXISTING CONCRETE, ASPHALT, BRICK, AND GAZEBO AS INDICATED ON THE DEMOLITION PLAN.

SEQUENCE OF CONSTRUCTION - PHASE 2

E. ALL SEDIMENT AND EROSION CONTROL DEVICES INSTALLED AS PART OF PHASE 1 SHALL REMAIN IN PLACE AND FUNCTIONING, UNLESS OTHERWISE DIRECTED BY THE INSPECTOR.
F. INSTALL TREES FOR REFORESTED AREA; REFER TO LF SERIES SHEETS FOR INSTALLATION DETAIL.
G. INSTALL SITE IMPROVEMENTS INCLUDING INSTALLATION OF LEVEL I BIORETENTION FACILITY, UTILITIES, UNDERDRAINS, STORM PIPES AND STRUCTURES, RETAINING WALLS, WALKS, ASPHALT PAVING, AND SITE FURNISHINGS.
PERFORM FINAL GRADING. INSTALLATION OF THE BIORETENTION STONE, FILTER MEDIA AND MULCH SHALL BE COMPLETED AFTER ADJACENT AREAS HAVE BEEN PERMANENTLY STABILIZED.
H. RESTORE AND STABILIZE DISTURBED AREAS.
I. REMOVE EROSION AND SEDIMENT CONTROL MEASURES WITH THE APPROVAL OF SITE INSPECTOR.

MAINTENANCE

A. ALL CONTROLS ARE TO BE INSPECTED ON A DAILY BASIS BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE. ANY DAMAGED CONTROLS ARE TO BE REPAIRED BY THE END OF THE WORKING DAY.
B. ALL CONSTRUCTION VEHICLES LEAVING THE SITE SHALL BE WASHED AS NECESSARY TO INSURE THAT SEDIMENT WILL NOT BE REMOVED FROM THE SITE. WASH WATER TO BE TRUCKED INTO THE SITE OR OBTAINED FROM A METERED WATER CONNECTION. WASH WATER TO BE DIRECTED TO A SEDIMENT TRAPPING DEVICE.
C. TO PREVENT CLOGGING, BLOCK AND GRAVEL INLET IS TO BE PROTECTED FROM DEBRIS AND CONSTRUCTION MATERIAL. CONTRACTOR TO COORDINATE WITH SITE INSPECTOR TO DETERMINE METHODOLOGY OF PROTECTION.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-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 AND VIRGINIA ADMINISTRATIVE CODE 9VAC25-84.0-4.0 EROSION AND SEDIMENT CONTROL REGULATIONS, MINIMUM STANDARDS.
ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN 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 CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
ES-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.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

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 AND SUPER 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 RESEDED AS NECESSARY TO COVER EXPOSED SOIL. RECENTLY SEEDDED 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.

GENERAL LAND CONSERVATION NOTES

- NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
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.
ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDDED AND MULCHED WITHIN 5 DAYS OF BACKFILL.
ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
ANY DISTURBED AREA NOT COVERED BY 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-SEEDDED NO LATER THAN MAY 15TH.
AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS. Table with 3 columns: APPLICATION DATES, SPECIES, APPLICATION RATES.

TABLE 3.32-D (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA. Table with 3 columns: LAND USE, SPECIES, APPLICATION PER ACRE. Includes sub-table for FERTILIZER & LIME.

Table with 2 columns: SPECIES, APPLICATION PER ACRE. Lists various grass and seed types with their respective application rates.

TABLE 3.35-A ORGANIC MULCH MATERIALS AND APPLICATION RATES. Table with 4 columns: MULCHES, RATES (Per Acre, Per 1000 sq. ft.), NOTES.



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

21-DPR-ITB-646

Project Name and Location

Marcey Road Park Improvements (By Right)

(County Project)

2722 MARCEY ROAD
ARLINGTON, VA 22207

Sheet Title

EROSION AND SEDIMENT CONTROL NOTES

100% Construction Drawings

Approval Date

Design Manager

Revisions Date

Designed: AW

Drawn: AMT

Checked: SDT, JKS, MMW, CMB

Filename: c-07-150396024 erosion and sediment control notes.dwg
Plotted: 2021-06-02

Scale: 1" = 20'

Date: JUNE 2, 2021

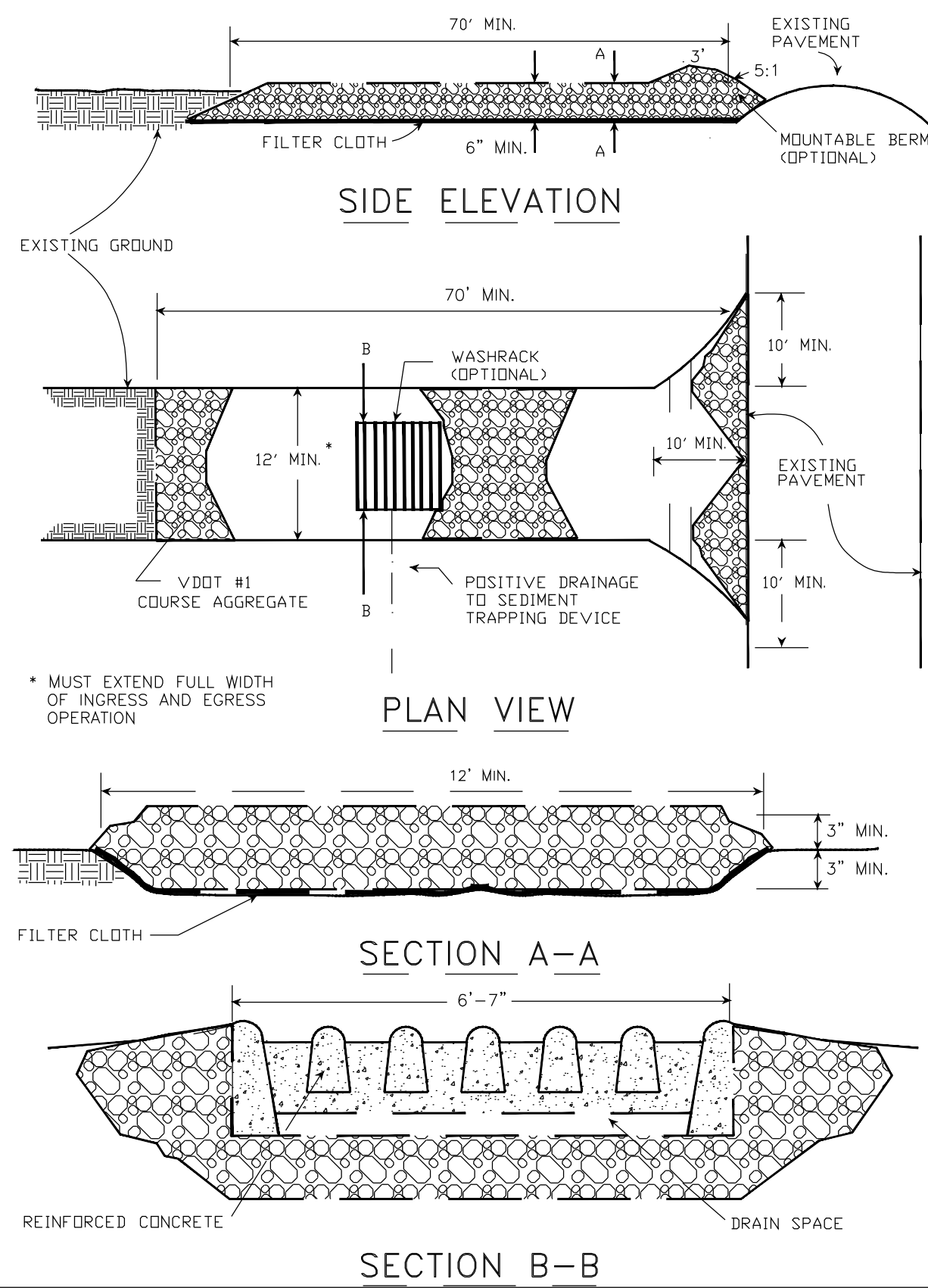
Seal



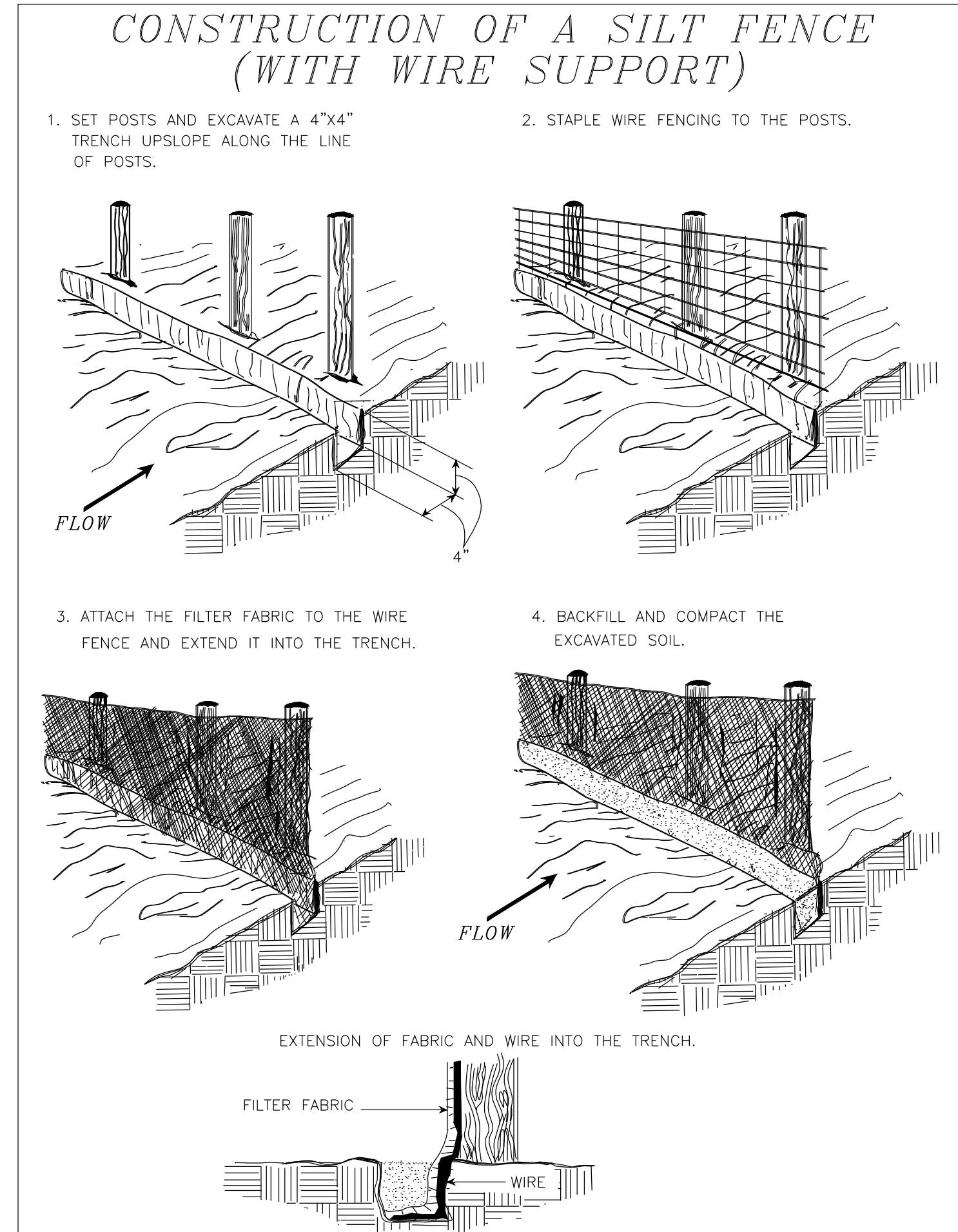
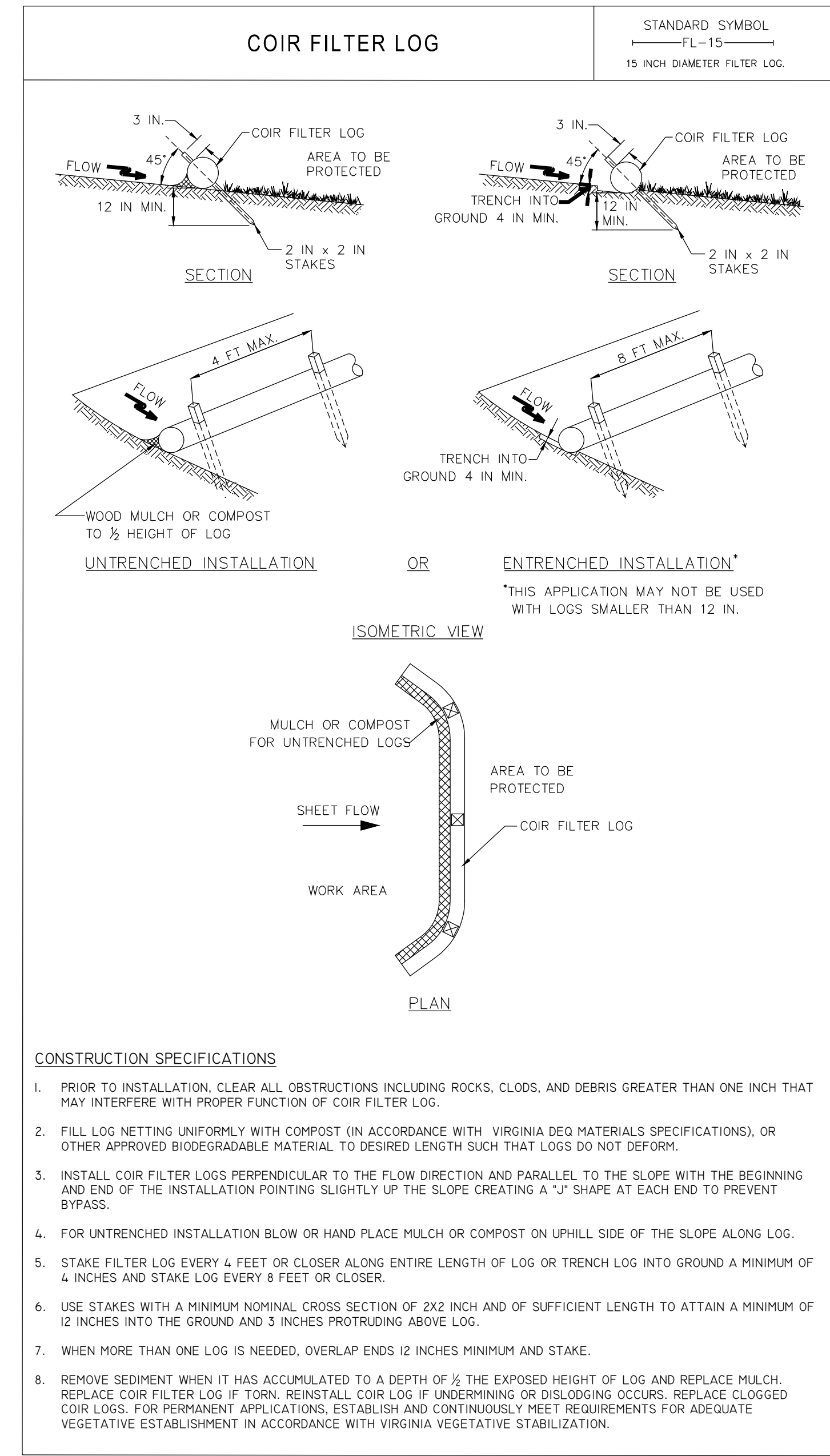
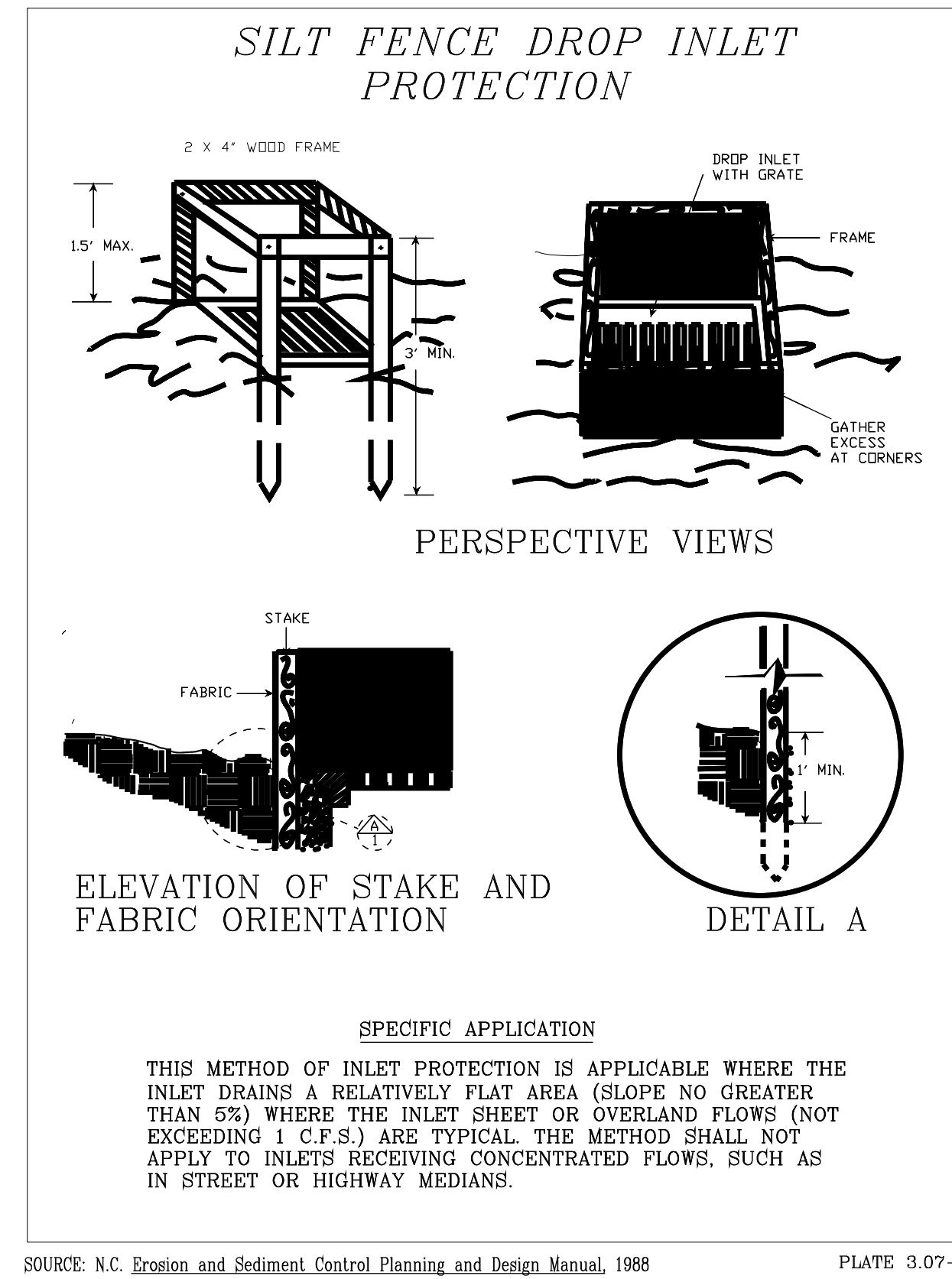
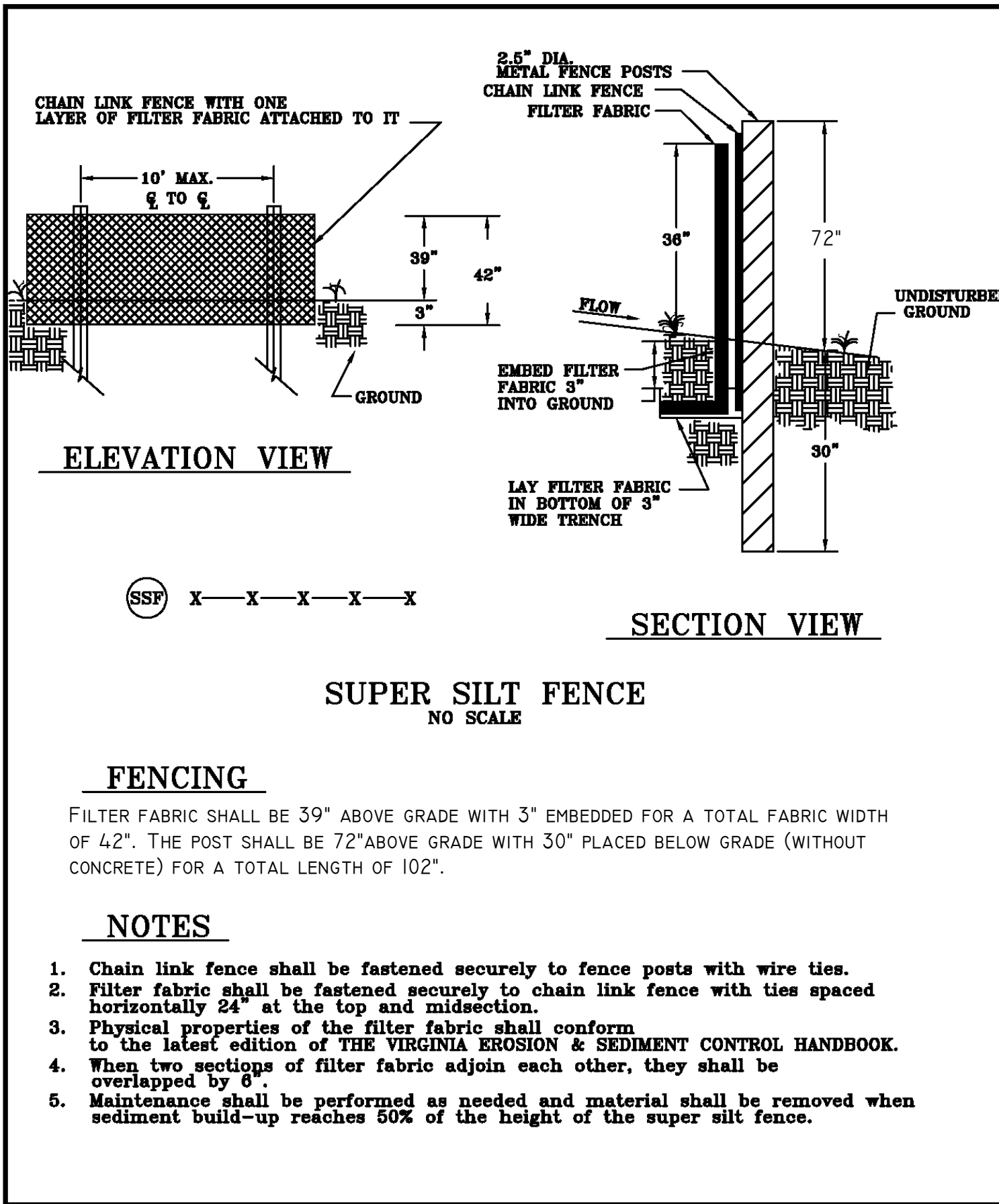
Sheet

C-07

### STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED FROM 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC Plate 3.02-1



SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood & Nyant PLATE 3.05-1

7-27-20  
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:  
2722 Marcey Road  
street address  
04-011-239  
lot, block, section subdivision  
LDA-16261  
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 x7928 with questions about this plan or my execution of the duties of  
Responsible Land Disturber.

Sincerely,  
*Aaron Wohler*  
signed  
Aaron Wohler  
name printed  
Landscape Architect 1615  
professional registration (type and number)



ARLINGTON VIRGINIA  
DEPARTMENT OF PARKS AND RECREATION  
Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

21-DPR-ITB-646

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**EROSION AND SEDIMENT CONTROL DETAILS**

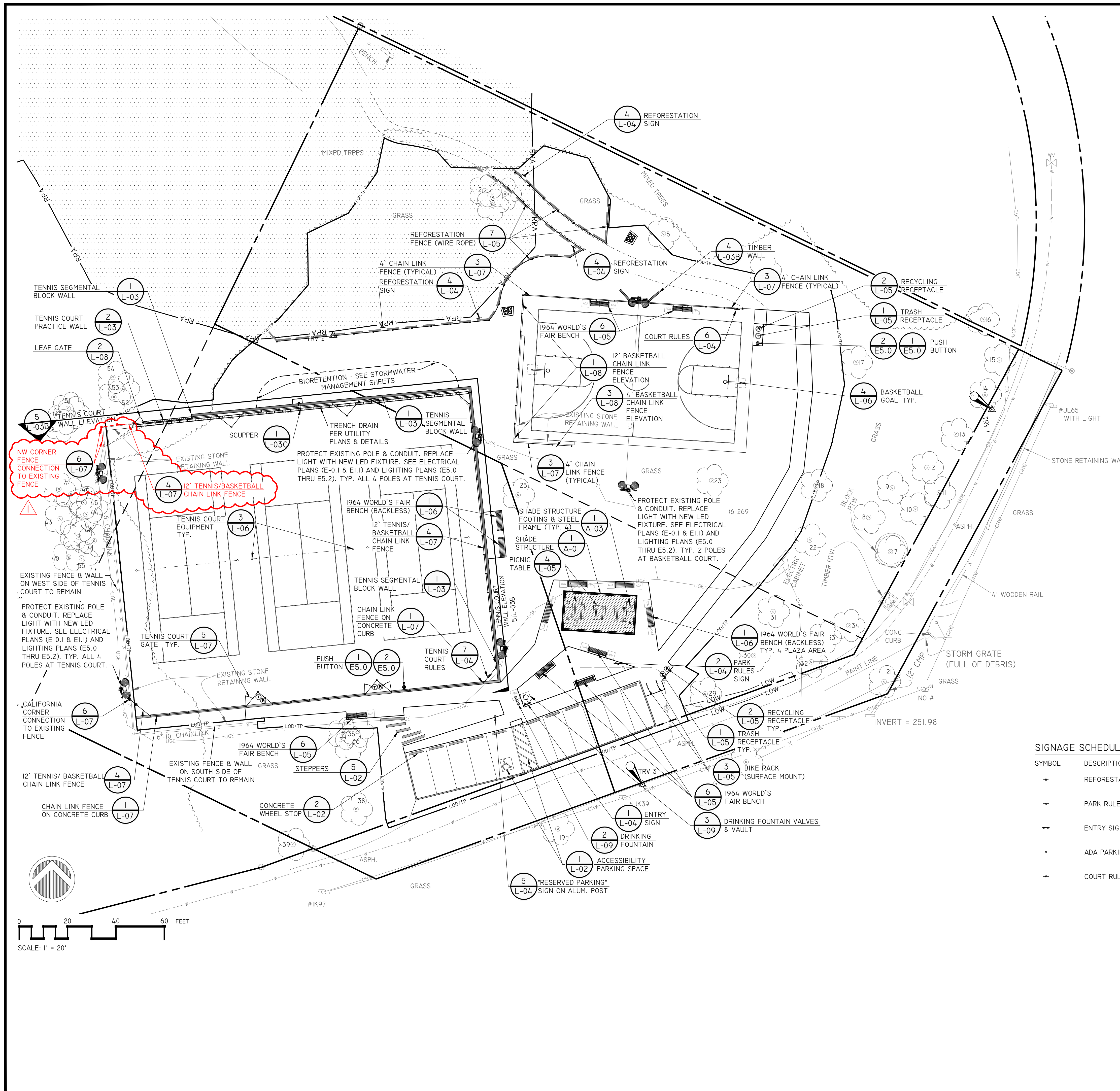
100% Construction Drawings

Approval	Date
Design Manager	
Revisions	Date

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB  
Filename: c-08-150396024 erosion and sediment control details.dwg  
Plotted: 2021-06-02  
Scale: AS SHOWN  
Date: JUNE 2, 2021



Sheet  
**C-08**



**PROPOSED SITE LEGEND**

--- L-00/TP	LIMITS OF DISTURBANCE / TREE PROTECTION FENCE	4/LF-03
---	LIMIT OF WORK (NO GROUND DISTURBANCE)	
---	REFORESTATION AREA	7/L-05
---	PARKING LOT	4 6
---	FLUSH CURB	L-02 L-02
---	CONCRETE PAVEMENT & SCORE JOINTS	1/L-01 2/L-01 6/L-01 3/L-01
---	TENNIS SEGMENTAL BLOCK WALL	1 L-03
---	CHAIN LINK FENCE ON CONCRETE CURB	1 L-07
---	CHAIN LINK FENCE & GATES	3/L-07 5/L-07 4/L-07 2/L-08
---	PARKING SPACE STRIPING WITH WHEEL STOP	1/L-02 2/L-02 4/L-02 6/L-02
---	ADA ACCESS AISLE	1/L-02 6/L-02
---	SHADE STRUCTURE	A-01 - A-03
---	NATURE / PARK ACCESS TRAIL - 3" NATURAL SHREDDED HARDWOOD MULCH	
---	STEPPER BLOCK STEPS	5 L-02
---	TENNIS COURT PRACTICE WALL	2 L-03
---	STORM DRAIN INFRASTRUCTURE, SEE C-12, C-16 & 1/L-03C	

**SITE FURNISHINGS SCHEDULE**

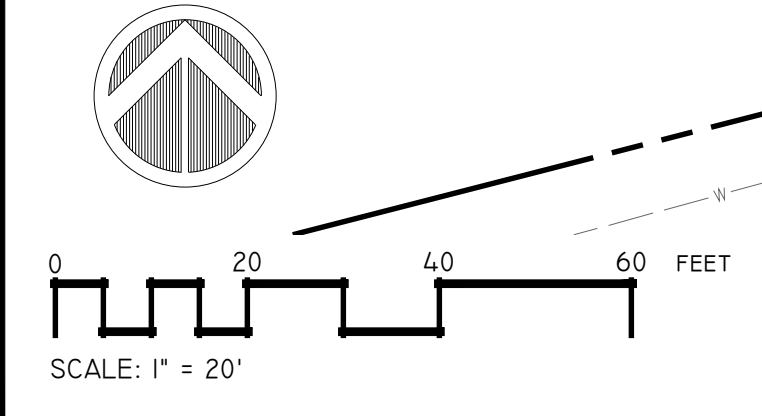
SYMBOL	DESCRIPTION	DETAIL
---	1964 WORLD'S FAIR BENCH	6/L-05
---	BIKE RACK (SURFACE MOUNT)	3/L-05
⊙	RECYCLE RECEPTACLE	2/L-05
⊙	TRASH RECEPTACLE	1/L-05
---	PICNIC TABLE	4/L-05
---	ADA PICNIC TABLE	4/L-05
---	ADA DRINKING FOUNTAIN WITH BOTTLE FILLER, VAULT & EQUIPMENT	2/L-09
---	1964 WORLD'S FAIR BENCH (BACKLESS)	1/L-06

**SIGNAGE SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
+	REFORESTATION SIGN	4/L-04
+	PARK RULES SIGN	2/L-04
+	ENTRY SIGN	1/L-04
+	ADA PARKING SIGN	5/L-04
+	COURT RULES SIGN	6/L-04

**ATHLETIC COURTS SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
⊙	SPORT COURT LIGHT FIXTURE RETROFIT, EXISTING POLES TO REMAIN IN PLACE. REPLACE CURRENT METAL HALIDE LIGHTS WITH NEW TOP FILTER, ELECTRICAL COMPONENTS, DRIVER AND LED FIXTURES. SEE ELECTRICAL & LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.	2/E5.0 1/E5.0
⊙	BASKETBALL HOOP	4/L-06
⊙	TENNIS COURT EQUIPMENT	3 L-06



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 Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**SITE PLAN**

100% Construction Drawings

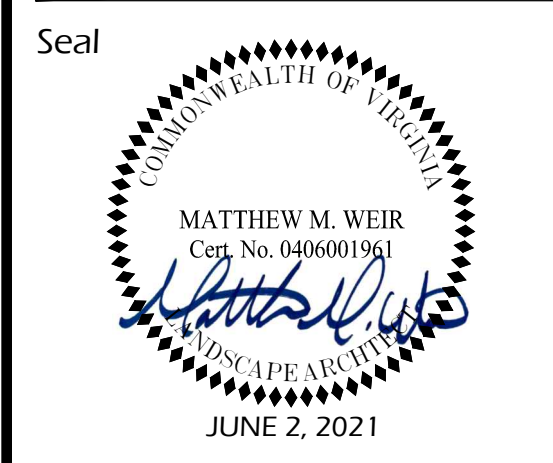
Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions Date  
**ADDENDUM 2** **7/28/21**

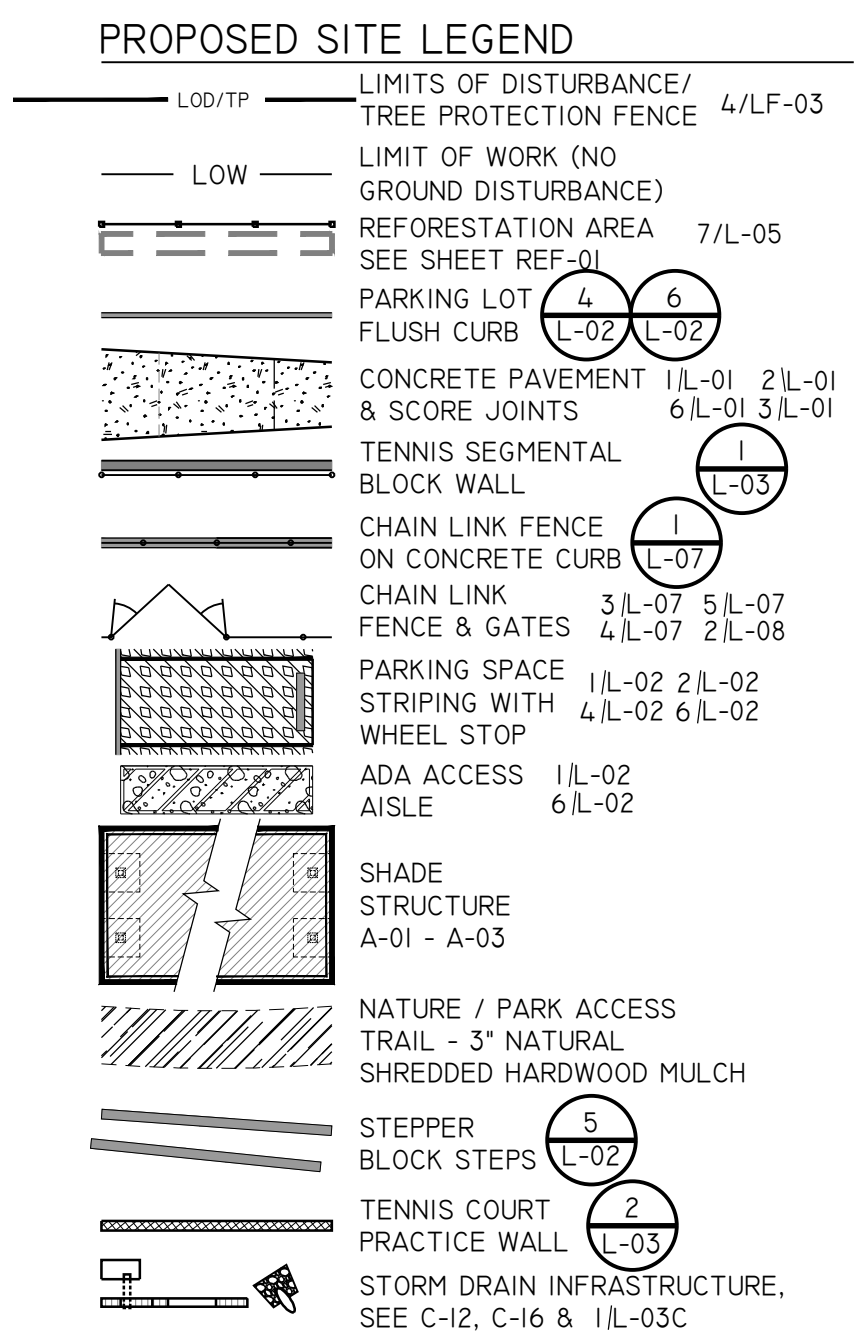
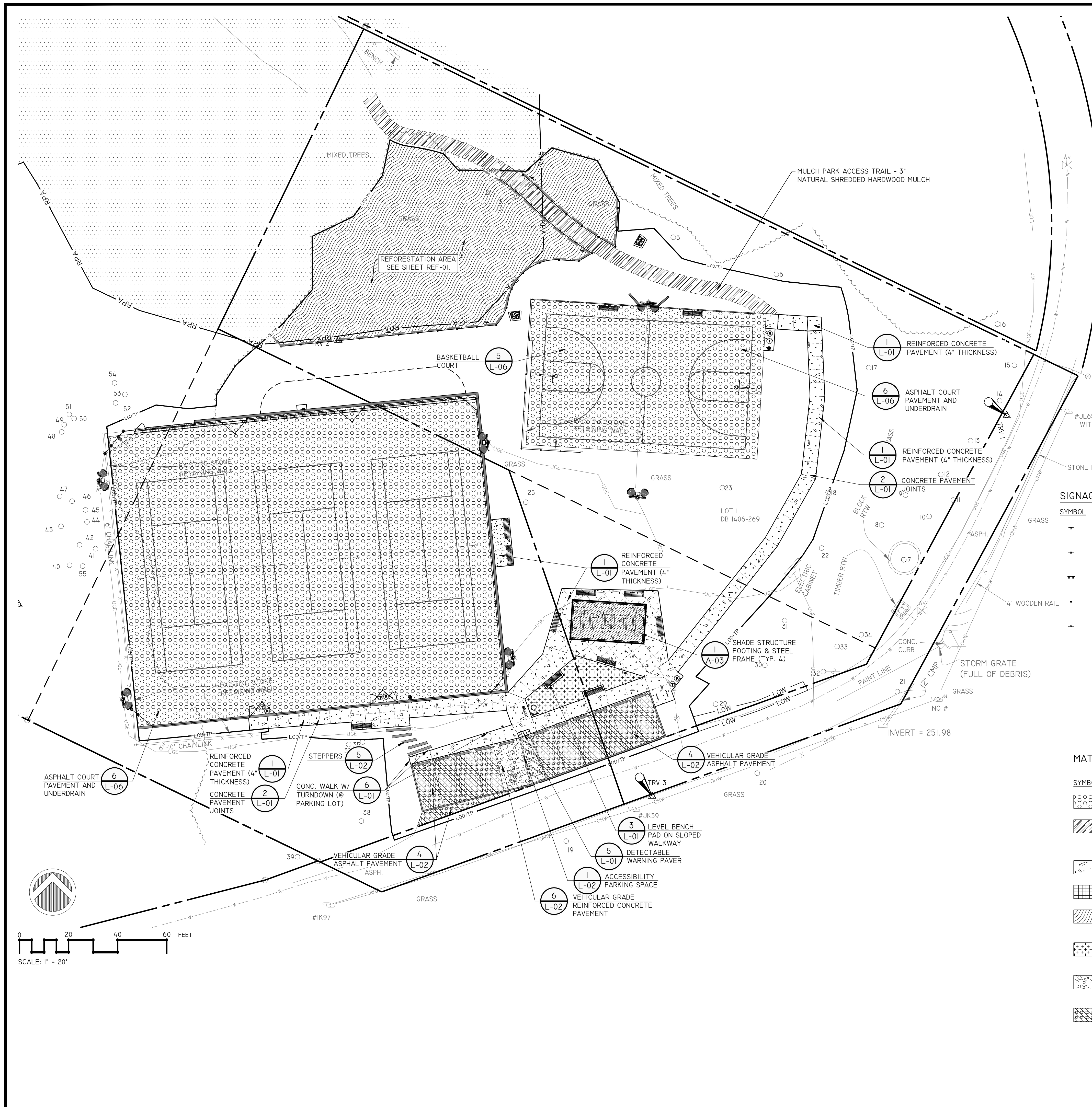
Designed: aw  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: c-09-150396024 site plan.dwg  
 Plotted: 2021-07-28

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet

**C-09**



### SIGNAGE SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
+	REFORESTATION SIGN	4/L-04
+	PARK RULES SIGN	2/L-04
+	ENTRY SIGN	1/L-04
+	ADA PARKING SIGN	5/L-04
+	COURT RULES SIGN	6/L-04

### SITE FURNISHINGS SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
+	1964 WORLD'S FAIR BENCH	6/L-05
+	BIKE RACK (SURFACE MOUNT)	3/L-05
+	RECYCLE RECEPTACLE	2/L-05
+	TRASH RECEPTACLE	1/L-05
+	PICNIC TABLE	4/L-05
+	ADA PICNIC TABLE	4/L-05
+	ADA DRINKING FOUNTAIN WITH BOTTLE FILLER, VAULT & EQUIPMENT	2/L-09
+	1964 WORLD'S FAIR BENCH (BACKLESS)	1/L-06

### MATERIALS NOTES SCHEDULE

SYMBOL	MATERIALS PLAN DESCRIPTION	DETAIL
+	MULTI-USE COURT	6/L-06
+	MULCH PARK ACCESS TRAIL - 3" NATURAL SHREDDED HARDWOOD MULCH	
+	CONCRETE WALKWAY PAVING	1/L-01
+	DETECTABLE WARNING PAVERS	5/L-01
+	REFORESTATION - SEE REFORESTATION SHEETS	
+	NATIVE PLANTING BED - SEE PLANTING PLANS	
+	VEHICULAR GRADE REINFORCED CONCRETE PAVEMENT	6/L-02
+	VEHICULAR GRADE ASPHALT PAVEMENT	4/L-02

### ATHLETIC COURTS SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
+	SPORT COURT LIGHT FIXTURE RETROFIT, EXISTING POLES TO REMAIN IN PLACE. REPLACE CURRENT METAL HALIDE LIGHTS WITH NEW TOP FILTER, ELECTRICAL COMPONENTS, DRIVER AND LED FIXTURES. SEE ELECTRICAL & LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.	SHEETS E-0.1 THROUGH E5.2
+	PUSH BUTTON PEDESTAL FOR SPORT COURT LIGHTING. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.	2/E5.0, 1/E5.0
+	BASKETBALL HOOP	4/L-06
+	TENNIS COURT EQUIPMENT	3/L-06



DEPARTMENT OF PARKS AND RECREATION  
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**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**MATERIALS PLAN**

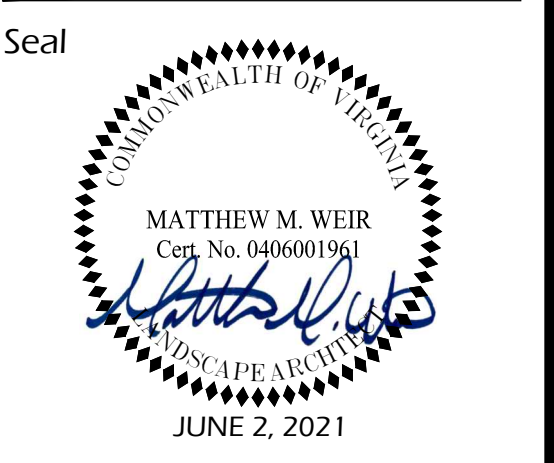
100% Construction Drawings

Approval	Date
Design Manager	

Revisions	Date

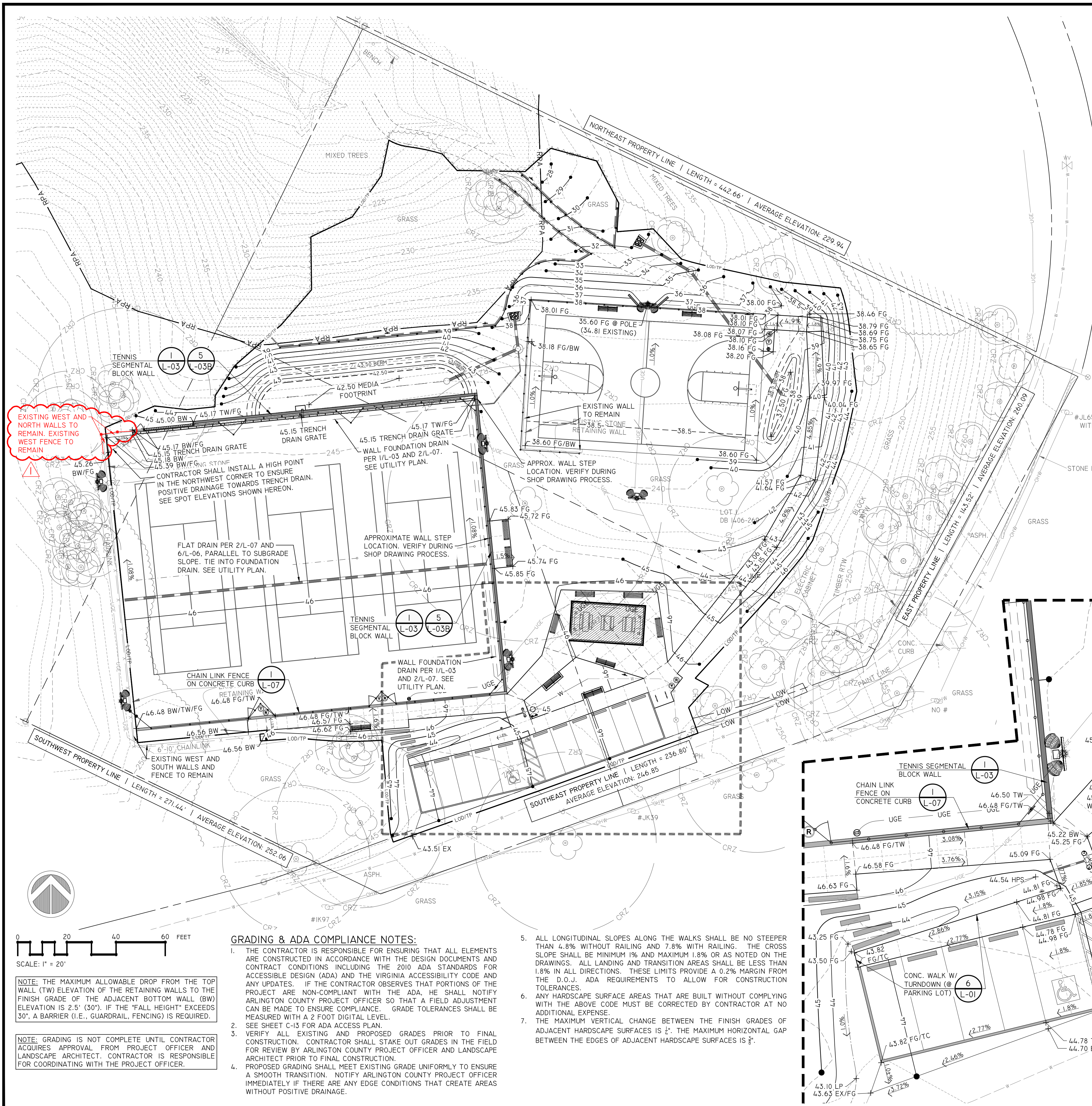
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 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
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 Plotted: 2021-06-02

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet  
**C-10**





### PROPOSED SITE LEGEND

- LOO/TP
- LOW
- REFORESTATION AREA
- PARKING LOT FLUSH CURB
- CONCRETE PAVEMENT & SCORE JOINTS
- TENNIS SEGMENTAL BLOCK WALL
- CHAIN LINK FENCE ON CONCRETE CURB
- CHAIN LINK FENCE & GATES
- PARKING SPACE STRIPING WITH WHEEL STOP
- ADA ACCESS AISLE
- SHADE STRUCTURE

### GRADING LEGEND

- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SLOPE
- PROPOSED FINISH GRADE
- PROPOSED TOP WALL
- PROPOSED BOTTOM WALL (ADJACENT FINISH GRADE)
- PROPOSED TOP CURB
- PROPOSED BOTTOM CURB
- PROPOSED LOW POINT
- PROPOSED HIGH POINT
- PROPOSED INVERT (SEE SWM/STORM DRAIN PLANS)
- PROPOSED SWALE

### AVERAGE SITE ELEVATION (PER ARLINGTON COUNTY ZONING ORDINANCE SECTION 3.1.6.A.2)

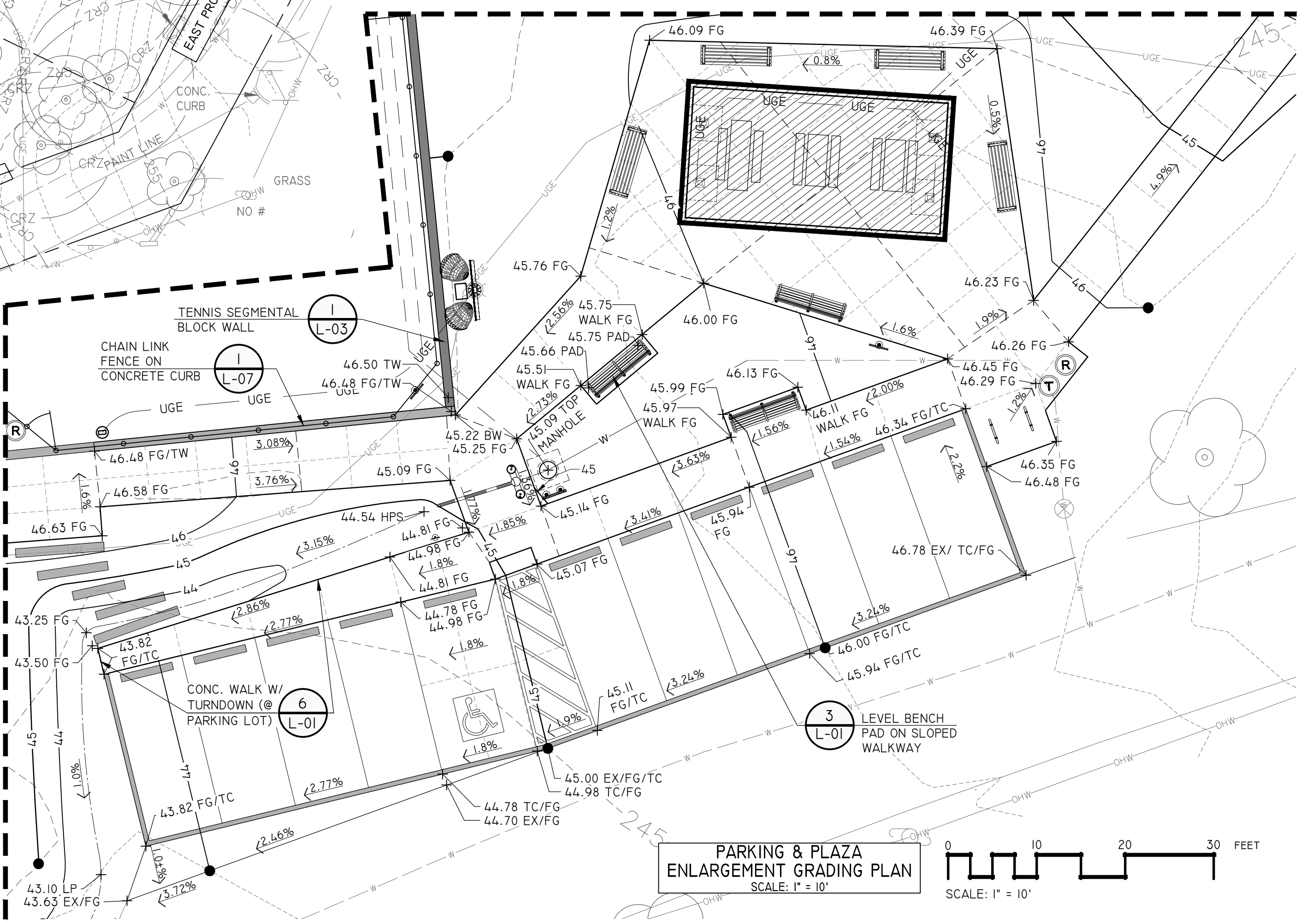
CALCULATIONS FOR THE AVERAGE VERTICAL DISTANCE OF EXISTING ELEVATIONS AT THE PARK'S PERIMETER PROPERTY LINES. AVERAGES ARE DETERMINED BY ASSESSING EXISTING VERTICAL ELEVATION AT 10' INTERVALS.

PROPERTY LINE	PROPERTY LINE LENGTH (FEET)	PROPERTY LINE LENGTH % OF TOTAL PERIMETER LENGTH	CALCULATED AVERAGE ELEVATION (FEET ABOVE SEA LEVEL)
NORTHEAST	442.66	31.45%	229.94
EAST	143.52	10.20%	260.09
SOUTHEAST	236.80	16.82%	246.85
SOUTHWEST	271.44	19.28%	252.06
NORTHWEST	313.20	22.25%	238.19
TOTAL PROPERTY PERIMETER LENGTH	1407.62	100.00%	241.96

CALCULATED AVERAGE SITE ELEVATION AT PARKS ENTIRE PERIMETER = 229.94 (.3145) + 260.09 (.1020) + 246.85 (.1682) + 252.06 (.1928) + 238.19 (.2225) = 241.96

PICNIC SHELTER AVERAGE HEIGHT = 246.16 (AVG. PLAZA ELEV. BENEATH STRUCTURE) + 11.17 (HIGHEST EDGE OF SHELTER ROOF) = 257.33

THE VERTICAL DISTANCE OF THE PICNIC SHELTER IS NOT EXPOSED MORE THAN TWO STORIES MORE THAN THE NUMBER PERMITTED FOR THE DISTRICT S-3A.



### GRADING & ADA COMPLIANCE NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DOCUMENTS AND CONTRACT CONDITIONS INCLUDING THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA) AND THE VIRGINIA ACCESSIBILITY CODE AND ANY UPDATES. IF THE CONTRACTOR OBSERVES THAT PORTIONS OF THE PROJECT ARE NON-COMPLIANT WITH THE ADA, HE SHALL NOTIFY ARLINGTON COUNTY PROJECT OFFICER SO THAT A FIELD ADJUSTMENT CAN BE MADE TO ENSURE COMPLIANCE. GRADE TOLERANCES SHALL BE MEASURED WITH A 2 FOOT DIGITAL LEVEL.
- SEE SHEET C-13 FOR ADA ACCESS PLAN.
- VERIFY ALL EXISTING AND PROPOSED GRADES PRIOR TO FINAL CONSTRUCTION. CONTRACTOR SHALL STAKE OUT GRADES IN THE FIELD FOR REVIEW BY ARLINGTON COUNTY PROJECT OFFICER AND LANDSCAPE ARCHITECT PRIOR TO FINAL CONSTRUCTION.
- PROPOSED GRADING SHALL MEET EXISTING GRADE UNIFORMLY TO ENSURE A SMOOTH TRANSITION. NOTIFY ARLINGTON COUNTY PROJECT OFFICER IMMEDIATELY IF THERE ARE ANY EDGE CONDITIONS THAT CREATE AREAS WITHOUT POSITIVE DRAINAGE.
- ALL LONGITUDINAL SLOPES ALONG THE WALKS SHALL BE NO STEEPER THAN 4.8% WITHOUT RAILING AND 7.8% WITH RAILING. THE CROSS SLOPE SHALL BE MINIMUM 1% AND MAXIMUM 1.8% OR AS NOTED ON THE DRAWINGS. ALL LANDING AND TRANSITION AREAS SHALL BE LESS THAN 1.8% IN ALL DIRECTIONS. THESE LIMITS PROVIDE A 0.2% MARGIN FROM THE D.O.J. ADA REQUIREMENTS TO ALLOW FOR CONSTRUCTION TOLERANCES.
- ANY HARDSCAPE SURFACE AREAS THAT ARE BUILT WITHOUT COMPLYING WITH THE ABOVE CODE MUST BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL EXPENSE.
- THE MAXIMUM VERTICAL CHANGE BETWEEN THE FINISH GRADES OF ADJACENT HARDSCAPE SURFACES IS 1/4". THE MAXIMUM HORIZONTAL GAP BETWEEN THE EDGES OF ADJACENT HARDSCAPE SURFACES IS 1/8".

NOTE: THE MAXIMUM ALLOWABLE DROP FROM THE TOP WALL (TW) ELEVATION OF THE RETAINING WALLS TO THE FINISH GRADE OF THE ADJACENT BOTTOM WALL (BW) ELEVATION IS 2.5' (30"). IF THE "FALL HEIGHT" EXCEEDS 30", A BARRIER (I.E., GUARDRAIL, FENCING) IS REQUIRED.

NOTE: GRADING IS NOT COMPLETE UNTIL CONTRACTOR ACQUIRES APPROVAL FROM PROJECT OFFICER AND LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE PROJECT OFFICER.

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**GRADING PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_  
Design Manager \_\_\_\_\_

Revisions Date  
**ADDENDUM 2** **7/28/21**

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

Filename: C-11-150396024 grading plan.dwg  
Plotted: 2021-07-28

Scale: 1" = 20'  
Date: JUNE 2, 2021



Sheet  
**C-11**





**PROPOSED SITE LEGEND**

- REFORESTATION AREA 7/L-05
- SEE SHEET REF-01
- PARKING LOT FLUSH CURB 4-L-02 6-L-02
- CONCRETE PAVEMENT & SCORE JOINTS 1/L-01 2/L-01 6/L-01 5/L-01
- TENNIS SEGMENTAL BLOCK WALL 1-L-03
- CHAIN LINK FENCE ON CONCRETE CURB 1-L-07
- CHAIN LINK FENCE & GATES 3/L-07 5/L-07 4/L-07 2/L-08
- PARKING SPACE STRIPING WITH WHEEL STOP 1/L-02 2/L-02 4/L-02 6/L-02
- ADA ACCESS AISLE 1/L-02 6/L-02
- SHADE STRUCTURE A-01 - A-03
- NATURE / PARK ACCESS TRAIL - 3" NATURAL SHREDDED HARDWOOD MULCH
- STEPPER BLOCK STEPS 5-L-02
- TENNIS COURT PRACTICE WALL 2-L-03
- STORM DRAIN INFRASTRUCTURE, SEE C-12, C-16 & 1/L-03C

**SITE FURNISHINGS SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
	1964 WORLD'S FAIR BENCH	6/L-05
	BIKE RACK (SURFACE MOUNT)	3/L-05
	RECYCLE RECEPTACLE	2/L-05
	TRASH RECEPTACLE	1/L-05
	PICNIC TABLE	4/L-05
	ADA PICNIC TABLE	4/L-05
	ADA DRINKING FOUNTAIN WITH BOTTLE FILLER, VAULT & EQUIPMENT	2/L-09
	1964 WORLD'S FAIR BENCH (BACKLESS)	1/L-06

**GRADING LEGEND**

- 4.4 PROPOSED MINOR CONTOUR
- 4.5 PROPOSED MAJOR CONTOUR

**ADA SCHEDULE**

- ADA ACCESSIBLE PARK ENTRY POINT
- ADA ACCESSIBLE SEATING
- ADA ACCESSIBLE ROUTE
- END OF ADA ACCESSIBLE ROUTE
- ADA ACCESSIBLE LANDING

**ADA NOTES:**  
 1. **ADA COMPLIANCE NOTE:** THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF ADA STANDARDS FOR ACCESSIBLE DESIGN, BY THE DEPARTMENT OF JUSTICE. SHOULD ANY QUESTIONS ARISE DURING CONSTRUCTION, INSTALLATION, OR IF ANY CLARIFICATIONS ARE NEEDED, THE CONTRACTOR SHALL CONTACT THE PROJECT OFFICER.  
 2. SEE GRADING PLANS FOR SPOT ELEVATIONS AND NOTES.

PARK ACCESSIBILITY TABULATION				
FEATURE/ COMPONENT/ ELEMENT	ACCESSIBLE QUANTITY	TOTAL QUANTITY	% ACCESSIBLE	NOTES
BENCHES	8	12	66%	
TRASH/RECYCLING (PAIRS)	4	4	100%	
DRINKING FOUNTAIN (DOUBLE)	1	1	100%	
PICNIC SHELTER	1	1	100%	
PICNIC TABLES	1 ACCESSIBLE (WITH 1 ADA TABLE EXTENSION/ PAD)	3 TABLES	33%	
SPORT COURTS	2	2	100%	
SPORTS COURT LIGHTING PUSH BUTTON	2	2	100%	



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
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2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**ADA ACCESS PLAN**

100% Construction Drawings

Approval	Date
Design Manager	
Revisions	Date

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB

Filename: c-13-150396024\_ada\_access\_plan.dwg  
 Plotted: 2021-06-02

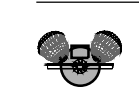

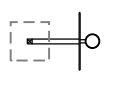

Scale: 1" = 20'  
 Date: JUNE 2, 2021




Sheet  
**C-13**


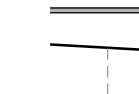
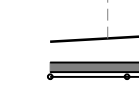
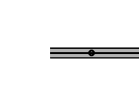
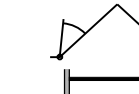

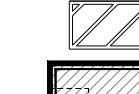
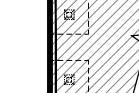

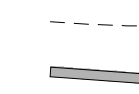
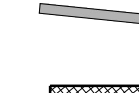
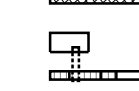


**ATHLETIC COURTS SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
	SPORT COURT LIGHT FIXTURE RETROFIT. EXISTING POLES TO REMAIN IN PLACE. REPLACE CURRENT METAL HALIDE LIGHTS WITH NEW TOP FITTER, ELECTRICAL COMPONENTS, DRIVER AND LED FIXTURES. SEE ELECTRICAL & LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.	SHEETS E-0.1 THROUGH E5.2
	PUSH BUTTON PEDESTAL FOR SPORT COURT LIGHTING. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.	2/E5.0 1/E5.0
	BASKETBALL HOOP	4/L-06
	TENNIS COURT EQUIPMENT	3 L-06

**SIGNAGE SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
	REFORESTATION SIGN	4/L-04
	PARK RULES SIGN	2/L-04
	ENTRY SIGN	1/L-04
	ADA PARKING SIGN	5/L-04

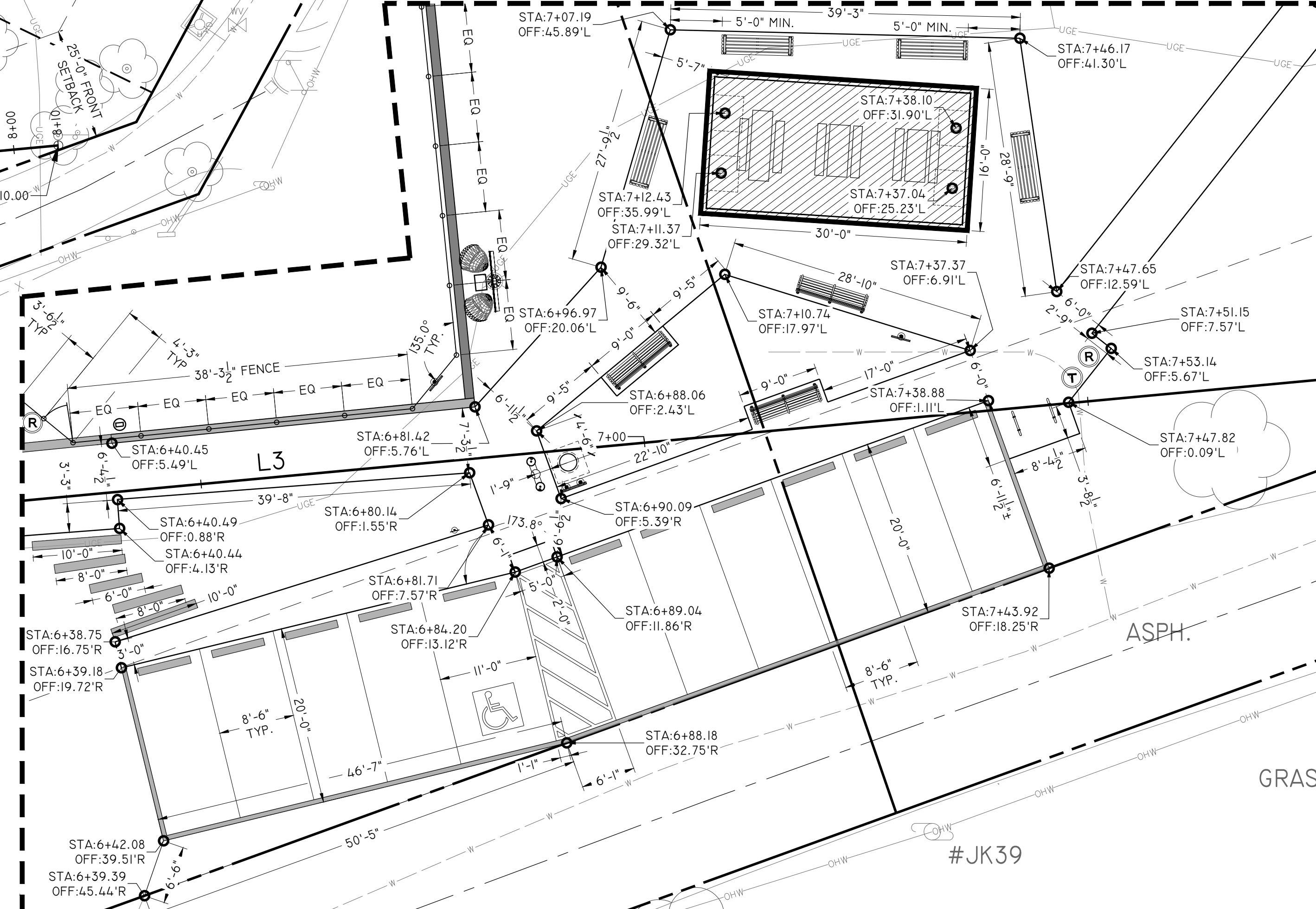
	REFORESTATION AREA	7/L-05 SEE SHEET REF-01
	CONCRETE PAVEMENT & SCORE JOINTS	1/L-01 2/L-01 6/L-01 3/L-01
	TENNIS SEGMENTAL BLOCK WALL	1 L-03
	CHAIN LINK FENCE ON CONCRETE CURB	1 L-07
	CHAIN LINK FENCE & GATES	3/L-07 5/L-07 4/L-07 2/L-08
	PARKING SPACE STRIPING WITH WHEEL STOP	1/L-02 2/L-02 4/L-02 6/L-02
	ADA ACCESS AISLE	1/L-02 6/L-02
	SHADE STRUCTURE	A-01 - A-03
	NATURE / PARK ACCESS TRAIL - 3' NATURAL SHREDDED HARDWOOD MULCH	
	STEPPER BLOCK STEPS	5 L-02
	TENNIS COURT PRACTICE WALL	2 L-03
	STORM DRAIN INFRASTRUCTURE. SEE C-12, C-16 & 1/L-03C	

**LINE TABLE:**

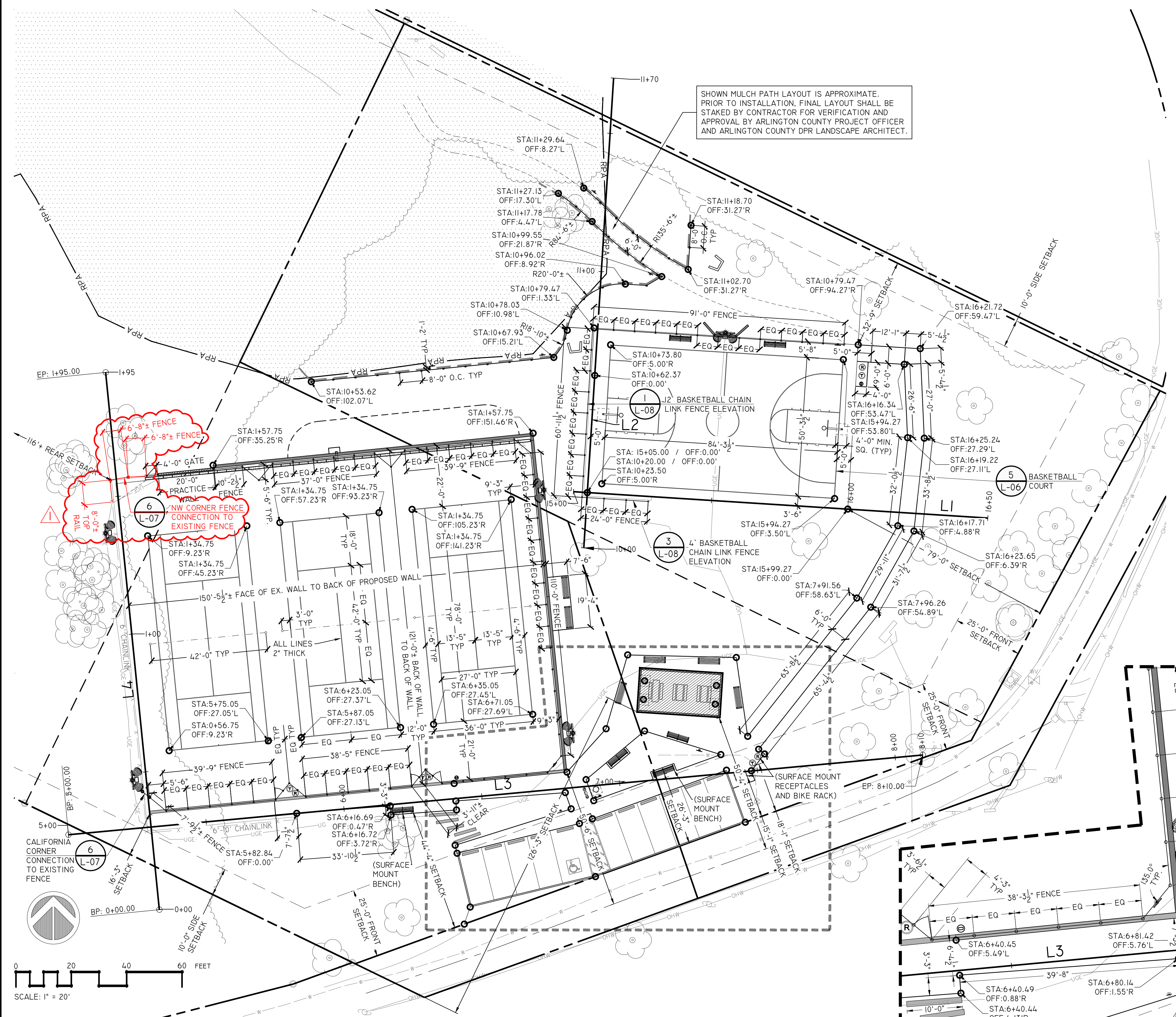
L1 (BBALL COURT EXISTING WALL EAST-WEST)  
L2 (BBALL COURT EXISTING WALL NORTH-SOUTH)  
L3 (TENNIS COURT EXISTING WALL EAST-WEST)  
L4 (TENNIS COURT EXISTING WALL NORTH-SOUTH)

LINE #	LENGTH	LINE DIRECTION	START POINT	START STATION	END POINT	END STATION
L4	195.00	N5° 42' 34.98"W	(11878653.38,7017783.96)	0+00.00	(11878633.98,7017977.99)	1+95.00
L3	310.00	N84° 40' 20.58"E	(11878620.53,7017811.03)	5+00.00	(11878929.19,7017839.81)	8+10.00
L2	170.00	N3° 38' 03.30"E	(11878806.74,7017914.62)	10+00.00	(11878817.51,7018084.28)	11+70.00
L1	150.00	S86° 21' 56.70"E	(11878803.02,7017934.90)	15+00.00	(11878952.71,7017925.39)	16+50.00

**PARKING & PLAZA ENLARGEMENT LAYOUT PLAN**  
SCALE: 1" = 10'



SHOWN MULCH PATH LAYOUT IS APPROXIMATE. PRIOR TO INSTALLATION, FINAL LAYOUT SHALL BE STAKED BY CONTRACTOR FOR VERIFICATION AND APPROVAL BY ARLINGTON COUNTY PROJECT OFFICER AND ARLINGTON COUNTY DPR LANDSCAPE ARCHITECT.



- LAYOUT NOTES:**
- ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE. LARGER SCALE OVER SMALLER SCALE. ADDENDA AND CLARIFICATIONS OVER PREVIOUS DOCUMENTS.
  - CONTRACTOR TO LAY OUT HARDSCAPE ELEMENTS AND VERIFY LAYOUT WITH PROJECT OFFICER & LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
  - ANY DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS OR OTHER DRAWINGS SHALL BE REPORTED TO THE PROJECT OFFICER IMMEDIATELY FOR PROPER CLARIFICATION OR ADJUSTMENT.
  - WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTER LINES.
  - MEASUREMENTS ARE TO FACE OF BUILDING, WALL OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES IS AS INDICATED.
  - INSTALL INTERSECTING ELEMENTS AT 90° ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
  - PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.
  - NEW WORK SHALL MEET AND MATCH ALIGNMENT OF EXISTING FEATURES AND FINISHED GRADES AT LIMITS OF WORK AND AT EXISTING PAVEMENT OR OTHER FACILITIES TO REMAIN.
  - CONTRACTOR SHALL VERIFY THE CORRECT LOCATION OF ALL UTILITIES AND EXISTING TREES TO REMAIN IN THE FIELD PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL STAKE ALIGNMENT FOR ALL WALLS, CURBS, BOULDERS, SIGNS, FURNISHINGS, COURTS, PATHS, HARDSCAPE, BENCHES, TABLES, TRASH RECEPTACLES, RECYCLING RECEPTACLES, LIGHT POLES, STORMWATER MANAGEMENT FACILITIES, MANHOLES AND UTILITY STATIONS FOR PROJECT OFFICER'S AND LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
  - FOR LAYOUT, ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM THE PLAN.
  - MINOR ADJUSTMENTS IN HORIZONTAL LAYOUT AND TOP OF WALL ELEVATIONS SHALL NOT RESULT IN AN INCREASE IN PRICE BY THE CONTRACTOR.
  - CONTRACTOR SHALL STAKE-OUT THE LOCATIONS OF BENCHES, BENCH PADS, LIGHT POLES, CHESS TABLES, AND STEP STONES FOR REVIEW AND APPROVAL BY PROJECT OFFICER AND LANDSCAPE ARCHITECT PRIOR TO CONTRACTOR INSTALLATION.

- LAYOUT ABBREVIATIONS:**
- STA: STATION  
OFF: OFFSET  
BL#: BASELINE #  
L#: LINE #  
C#: CURVE #  
EQ: EQUAL  
ER: POB: POINT OF BEGINNING  
UON: UNLESS OTHERWISE NOTED  
EP: END POINT  
BP: BEGINNING POINT
- NOTE: LOCATIONS OF SIGNS (ALL TYPES) AND SITE FURNISHINGS SHALL BE VERIFIED IN FIELD WITH PROJECT OFFICER AND DPR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.**

**21-DPR-ITB-646**

Project Name and Location

**Marcey  
Road Park  
Improvements  
(By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**JOINT LAYOUT  
PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

Filename: c-14-150396024 layout  
plan.dwg  
Plotted: 2021-06-02

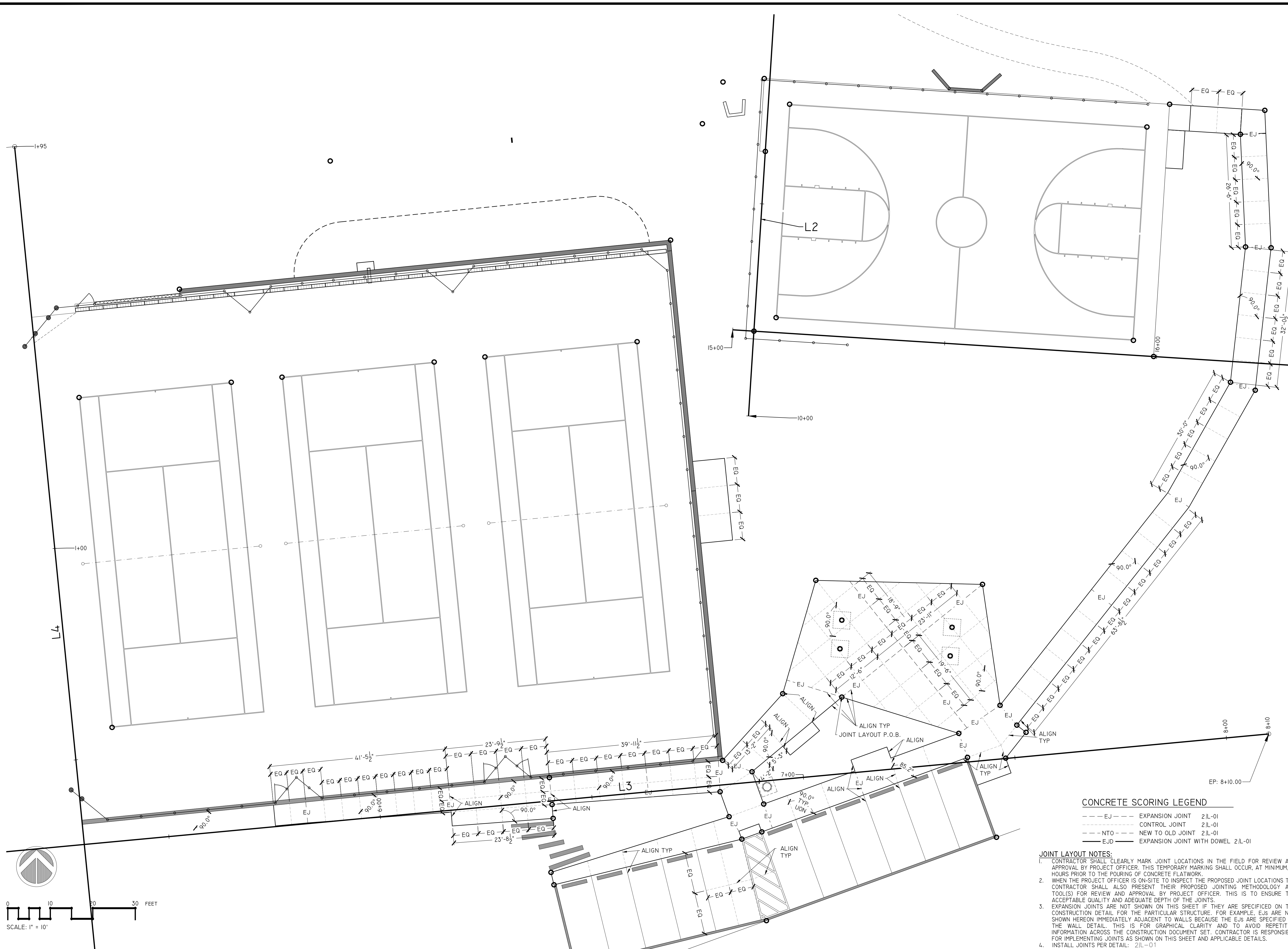
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Date: JUNE 2, 2021

Seal



Sheet

**C-15**



**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**UTILITY DETAILS**

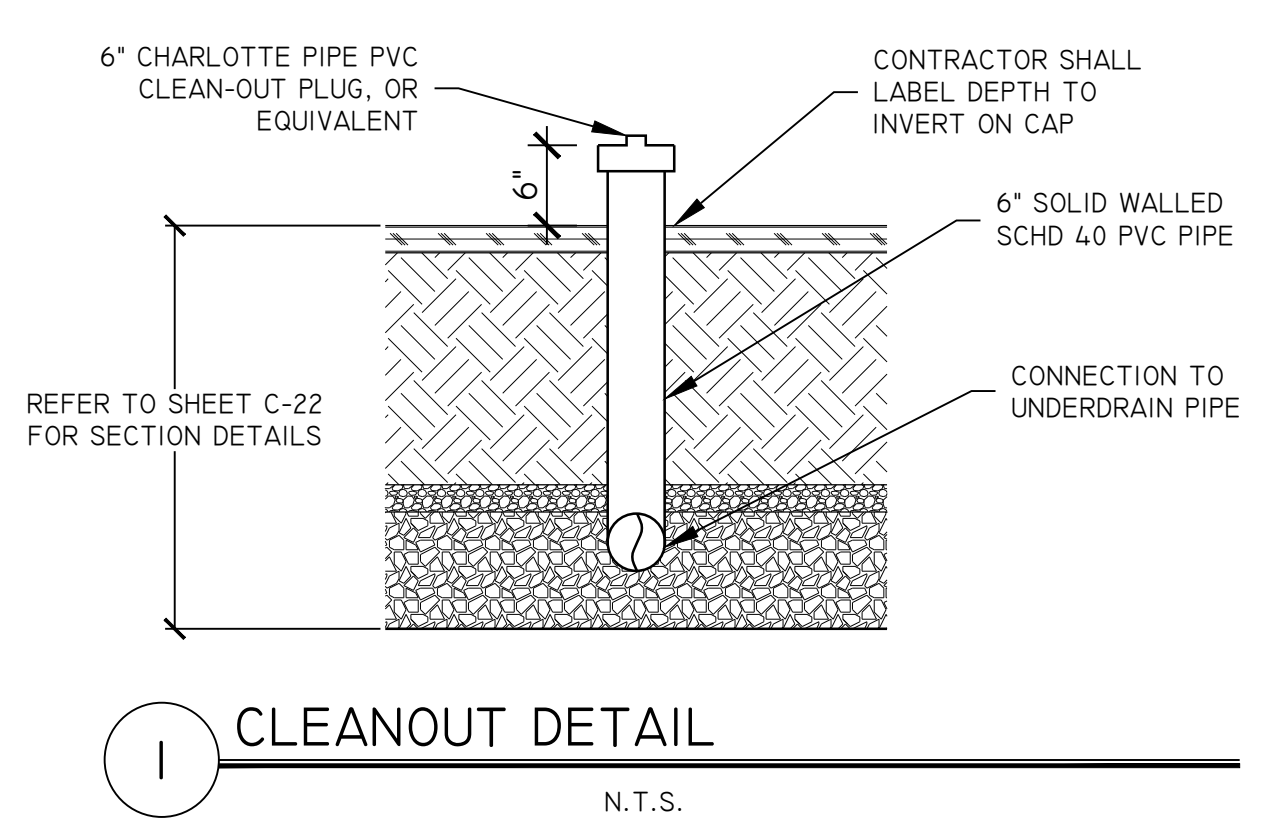
100% Construction Drawings

Approval	Date
Design Manager	

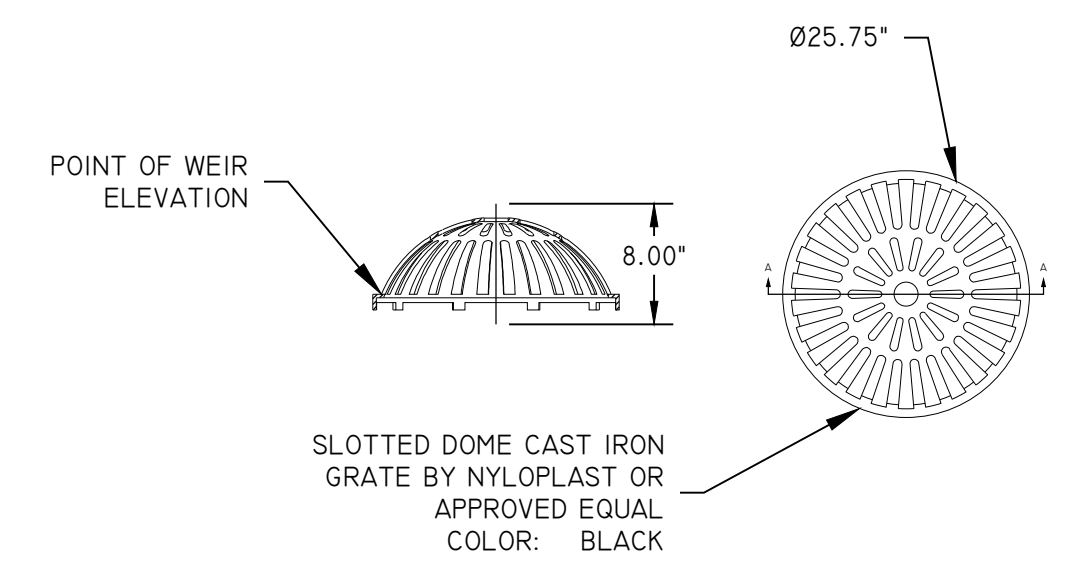
  

Revisions	Date

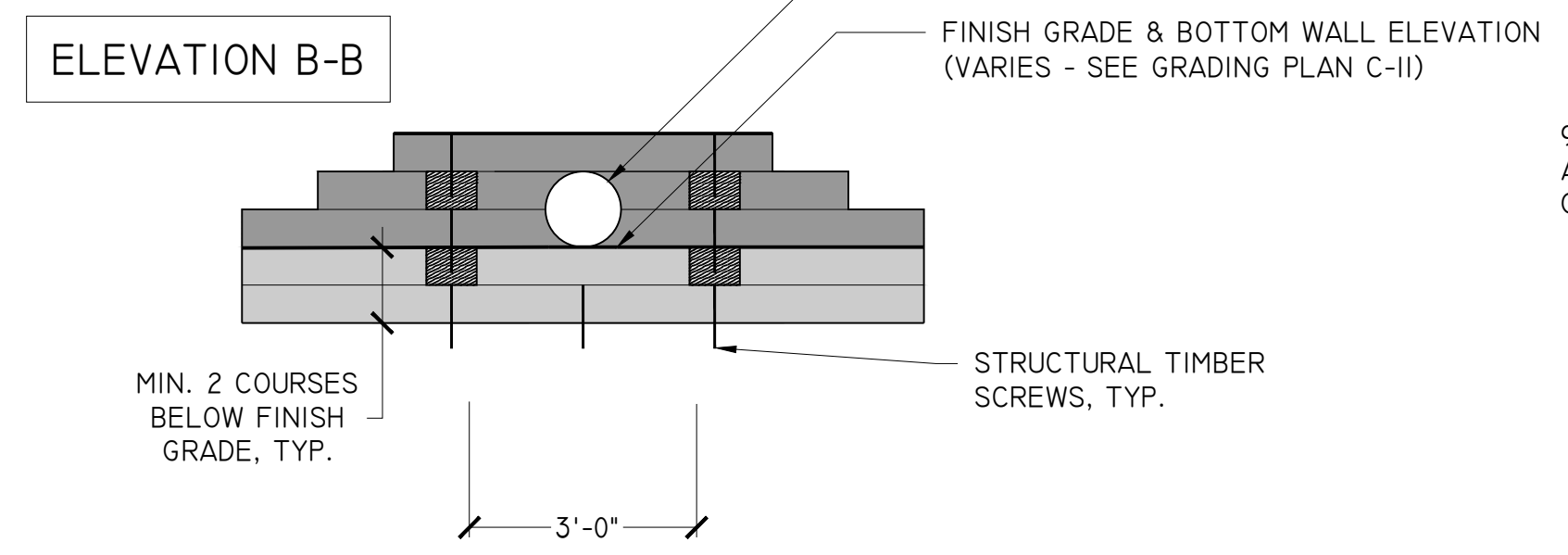
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Plotted: 2021-06-02  
Scale: AS SHOWN  
Date: JUNE 2, 2021



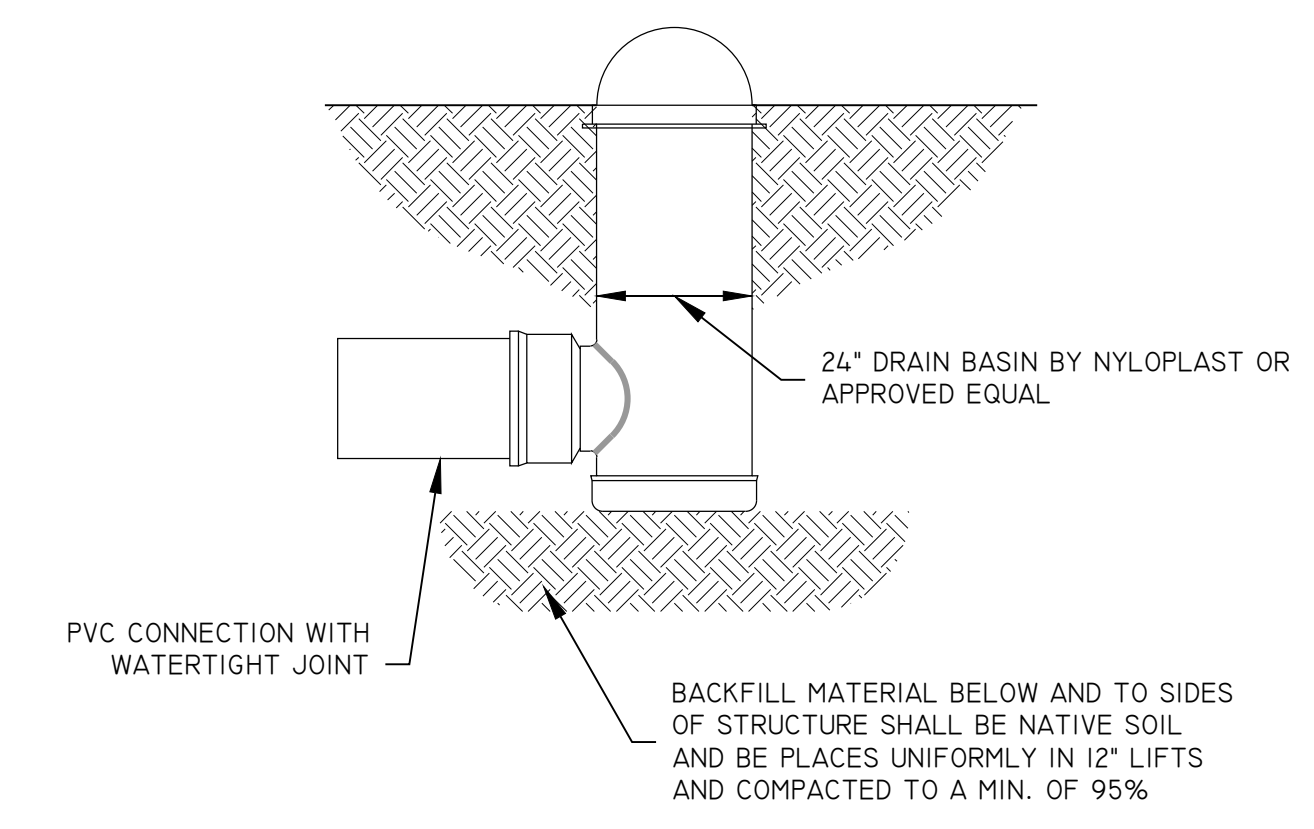
**1 CLEANOUT DETAIL**  
N.T.S.



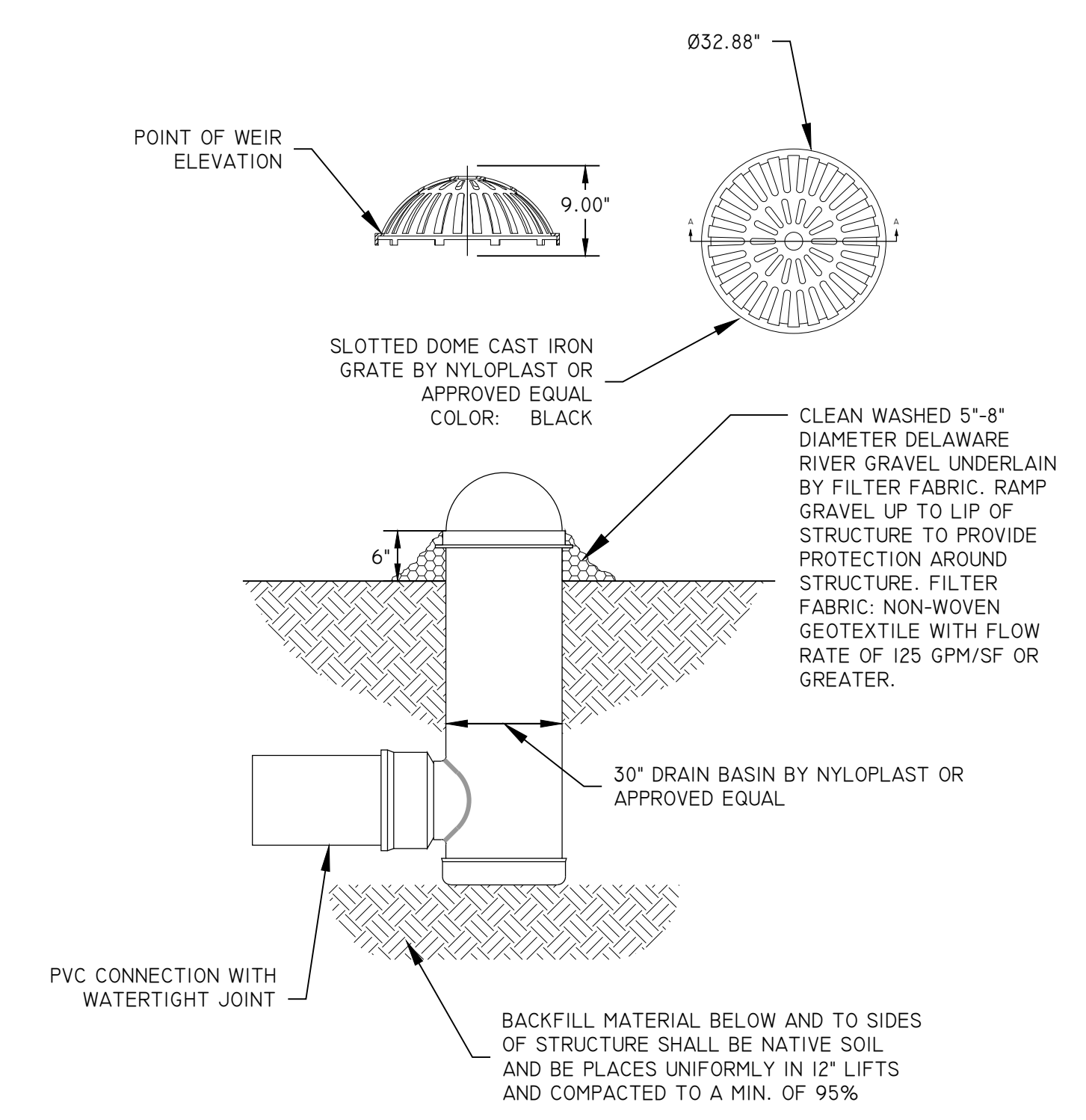
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1. JOIN TIMBERS W/ .276 x 10\"/>



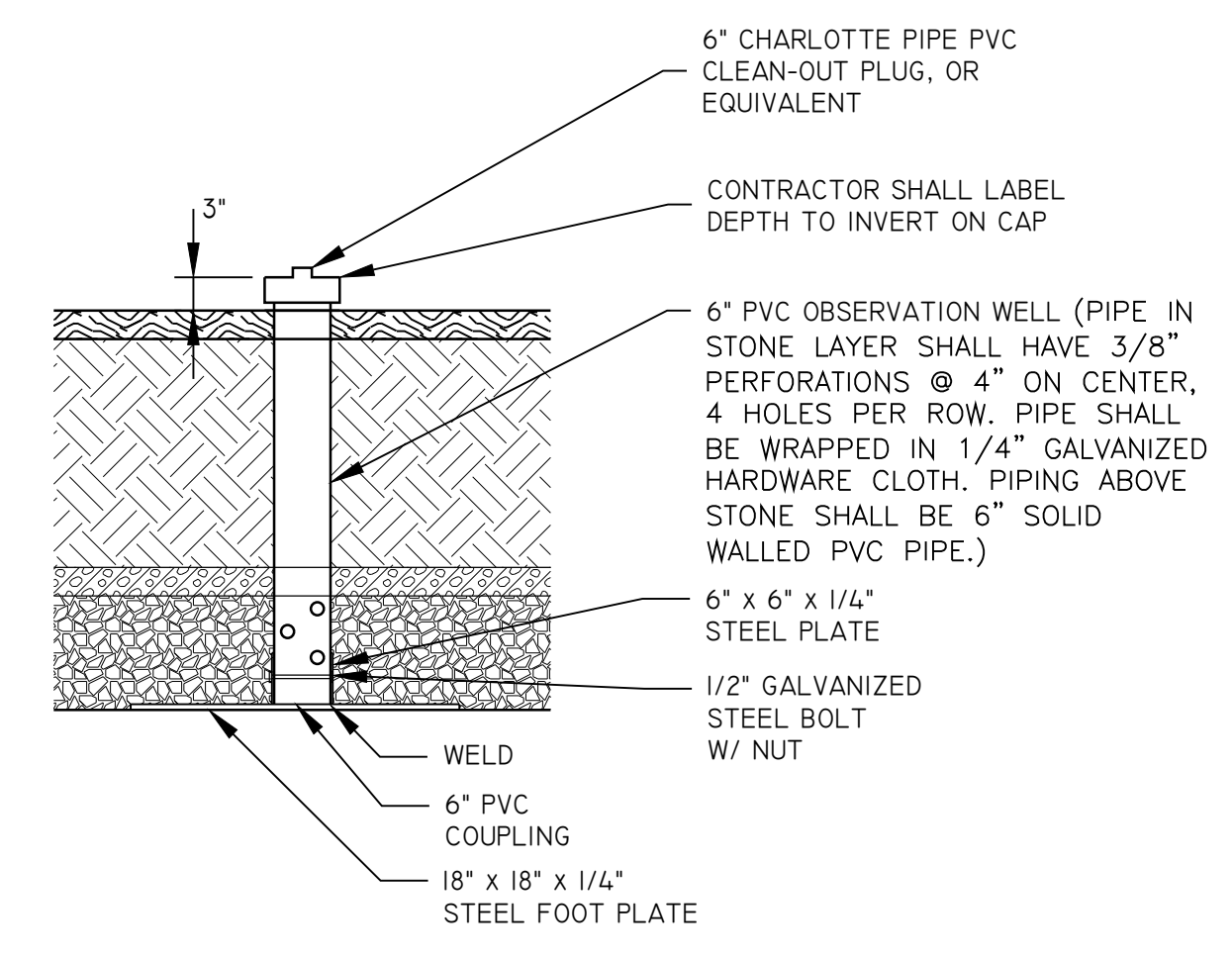
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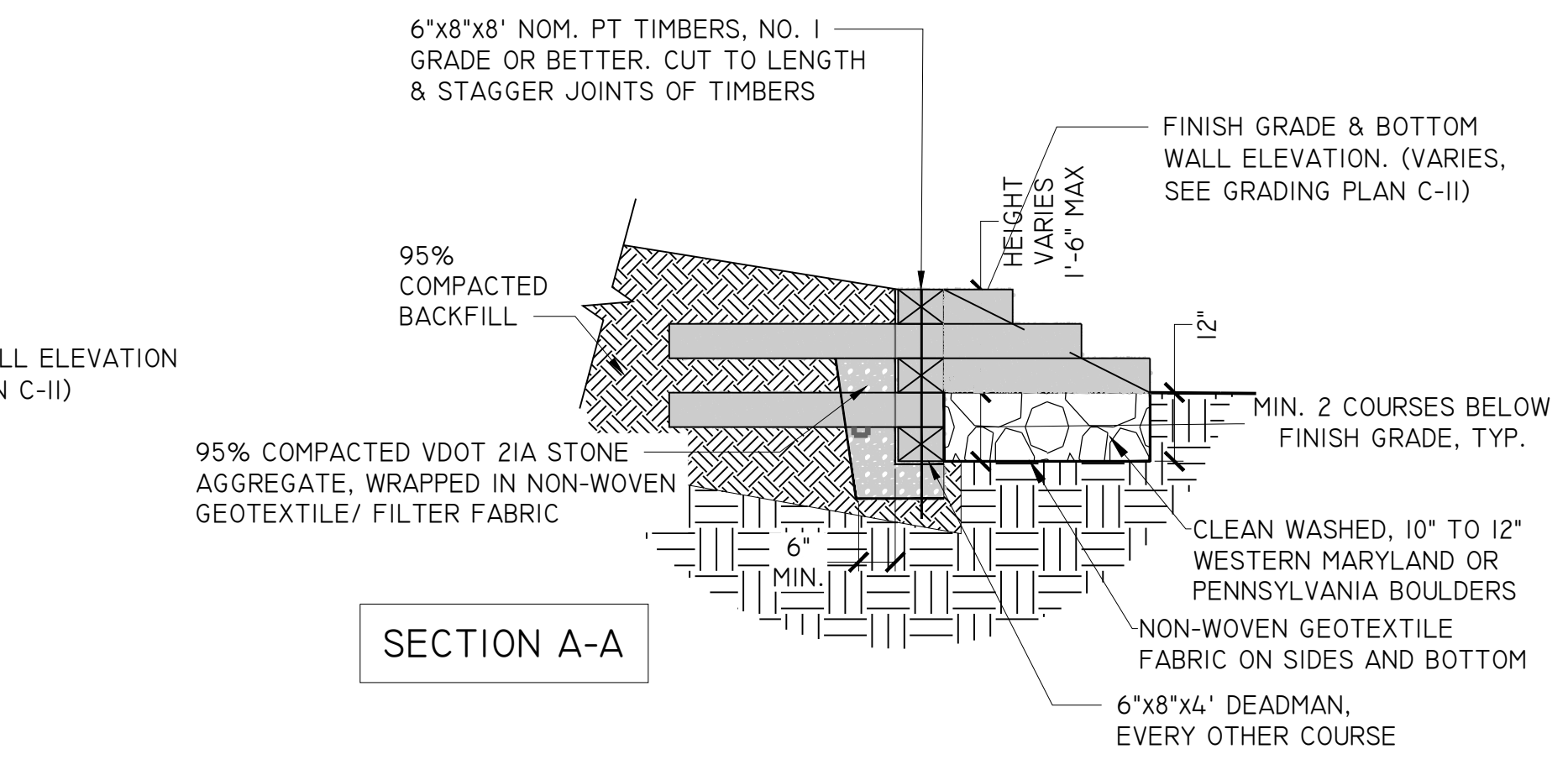
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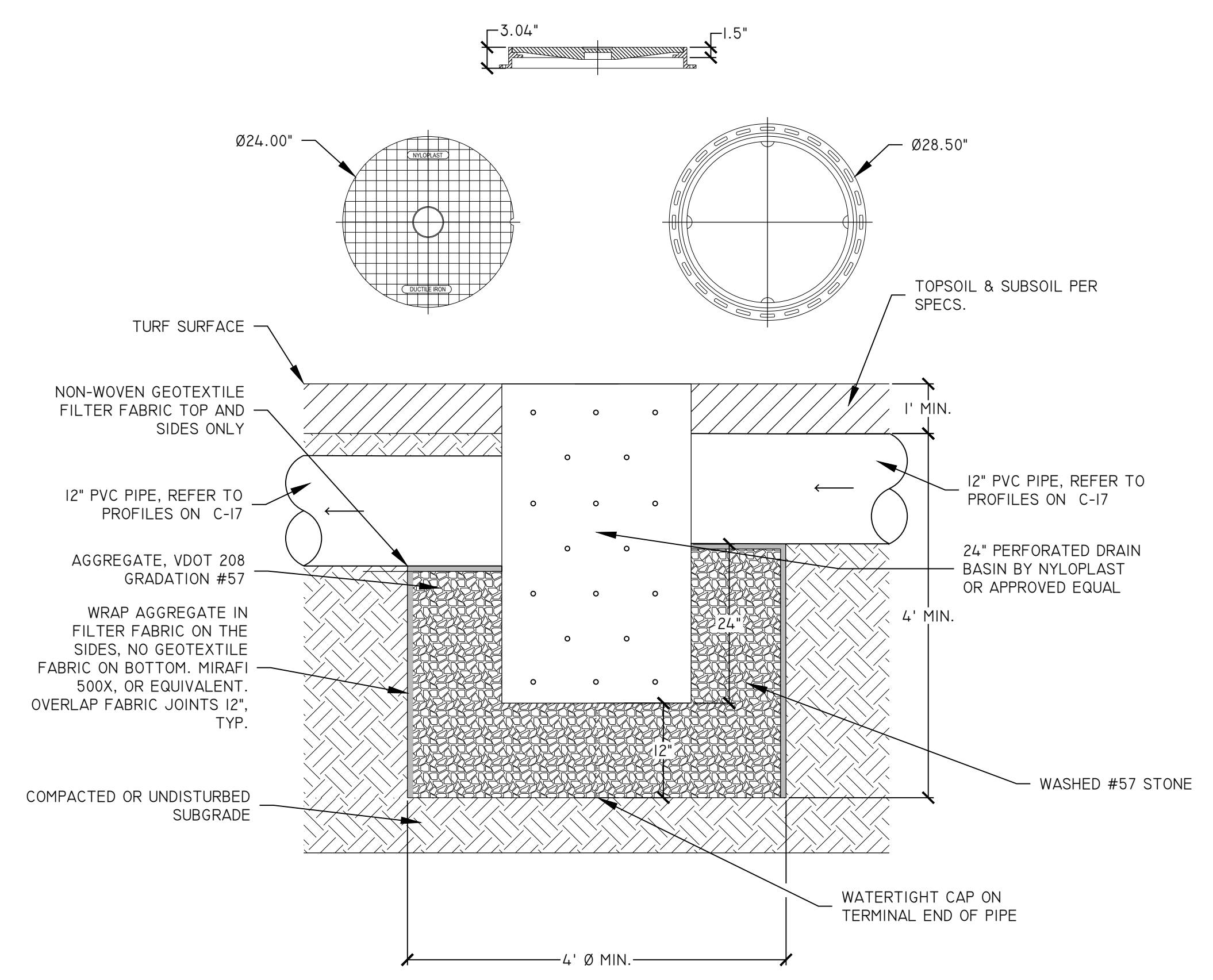
**4 30\"/>**



**5 OBSERVATION WELL DETAIL**  
N.T.S.



NOTE: OUTFALL PROTECTION SHALL BE INSTALLED PER SPECIFICATIONS.



**6 24\"/>**

STM 2 NYLOPLAST Ø24" DRAIN BASIN SIZING:

WEIR:  $Q = 3.3 \times P(H)^{3/2}$   
 $P = 6.74'$   
 $H = 0.25'$   
 $Q = 3.3 \times 6.74 \times (0.25)^{3/2}$   
 $Q = 2.78$  CFS

ORIFICE:  $Q = 0.6 \times A \times (2 \times G \times H)^{1/2}$   
 $A = 1.88 \text{ FT}^2$   
 $H = 0.25'$   
 $Q = 0.6 \times 1.88 \times [2 \times (32.2 \text{ FT/S}^2) \times 0.25]^{1/2}$   
 $Q = 4.53$  CFS

2.78 CF IS THE CONTROLLING FLOW RATE.

$Q_{10} = 0.74$  CFS

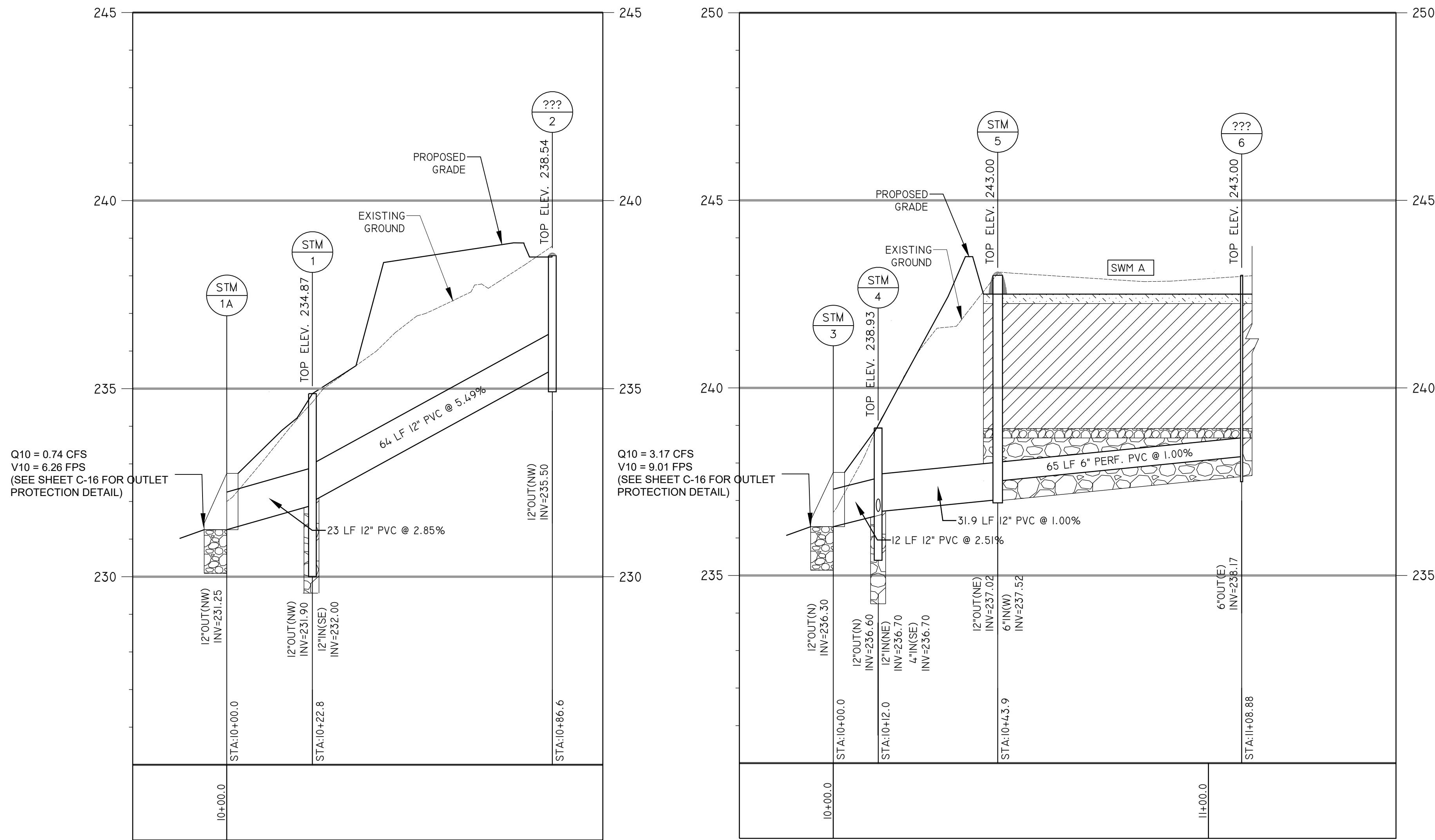
STM 5 NYLOPLAST Ø30" DRAIN BASIN SIZING:

WEIR:  $Q = 3.3 \times P(H)^{3/2}$   
 $P = 8.61'$   
 $H = 0.25'$   
 $Q = 3.3 \times 8.61 \times (0.25)^{3/2}$   
 $Q = 3.55$  CFS

ORIFICE:  $Q = 0.6 \times A \times (2 \times G \times H)^{1/2}$   
 $A = 2.85 \text{ FT}^2$   
 $H = 0.25'$   
 $Q = 0.6 \times 2.85 \times [2 \times (32.2 \text{ FT/S}^2) \times 0.25]^{1/2}$   
 $Q = 6.86$  CFS

3.55 CF IS THE CONTROLLING FLOW RATE.

$Q_{10} = 3.17$  CFS



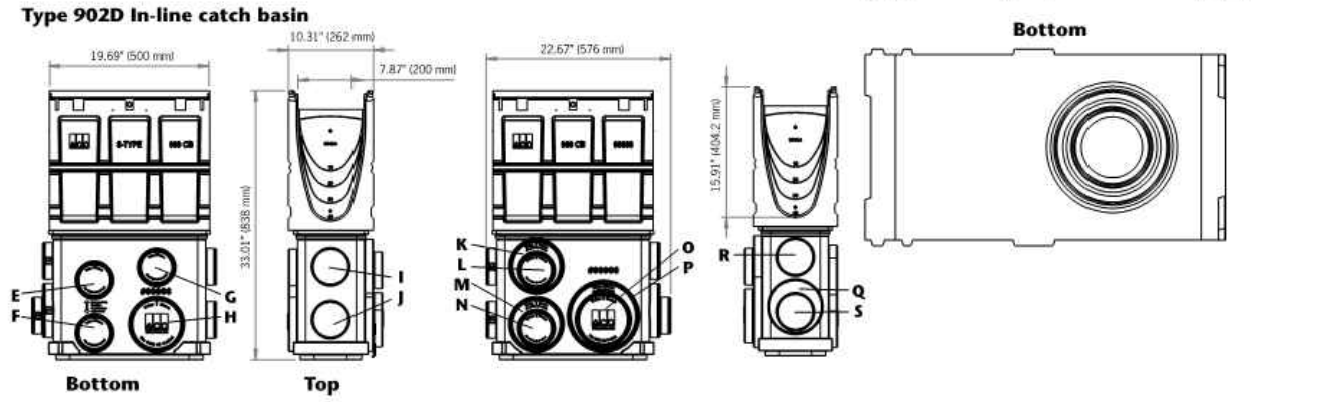
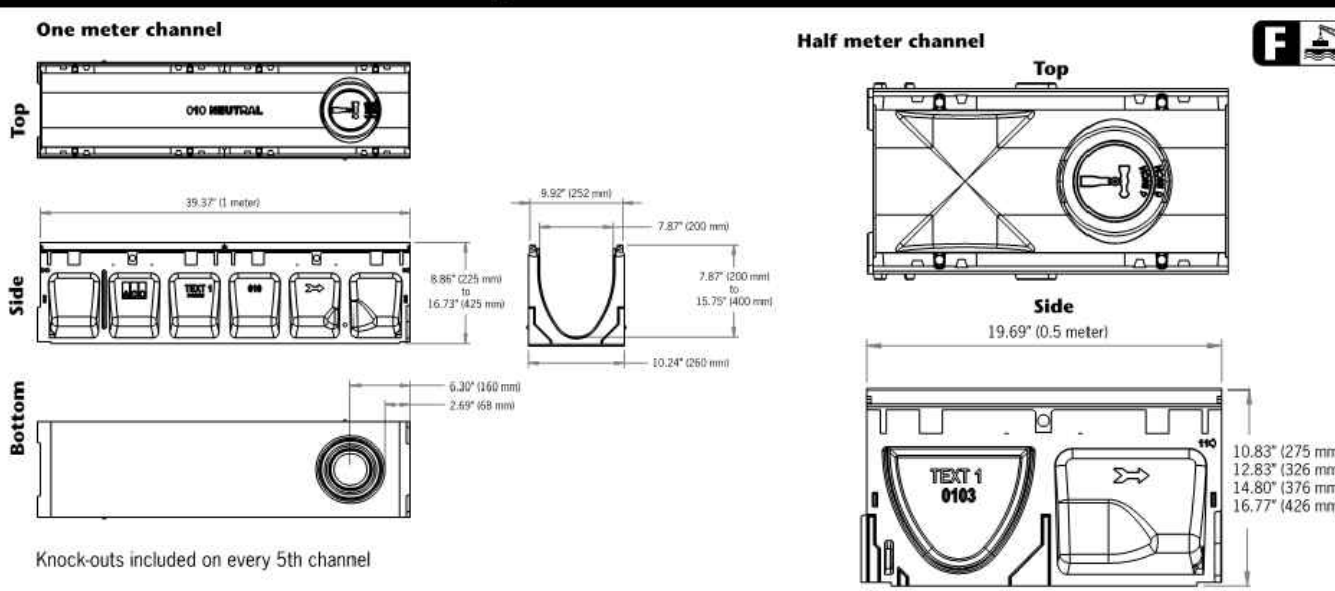
STM-2 TO STM-1A PROFILE

SCALE: HORIZ 1" = 20'  
VERT. 1" = 2'

STM-6 TO STM-3 PROFILE

SCALE: HORIZ 1" = 20'  
VERT. 1" = 2'

ACO DRAIN PowerDrain - S200K iron edged channels



Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - SK2 00	4"	1.57'	133	0.38
B	Bottom outlet - SK2 04	4"	1.57'	216	0.48
C	Bottom outlet - SK2 08	4"	1.57'	344	0.77
D	Bottom outlet - SK2 12	4"	1.57'	486	1.08
E	End outlet - SK2 00	4"	1.57'	132	0.29
F	End outlet - SK2 04	4"	1.57'	202	0.45
G	End outlet - SK2 08	4"	1.57'	320	0.71
H	End outlet - SK2 12	4"	1.57'	437	0.97
I	Type SK2 902D	4"	25.33'	263	0.59
J	Type SK2 902D	4"	31.83'	297	0.66
K	Type SK2 902D	4"	23.76'	254	0.57
L	Type SK2 902D	4"	23.91'	255	0.57
M	Type SK2 902D	4"	30.40'	290	0.65
N	Type SK2 902D	4"	24.68'	570	1.27
O	Type SK2 902D	4"	24.13'	256	0.57
P	Type SK2 902D	6"	31.82'	658	1.47
Q	Type SK2 902D	6"	31.26'	294	0.66
R	Type SK2 902D	6"	31.26'	651	1.45
S	Type SK2 902D	8"	31.82'	1149	2.56
T	Type SK2 902D	8"	30.32'	640	1.43
U	Type SK2 902D	4"	23.19'	251	0.56
V	Type SK2 902D	4"	29.90'	288	0.64

ACO DRAIN PowerDrain - S200K iron edged channels

Description	Part No.	Invert (feet)	Weight (lbs)	Description	Part No.	Invert (feet)	Weight (lbs)
SK2-00 Constant depth channel - 39.37' (1m)	68041	7.87	200	SK2-28 Sloped channel - 39.37' (1m)	68028	11.38	342
SK2-1 Sloped channel - 39.37' (1m)	68001	8.07	205	SK2-29 Sloped channel - 39.37' (1m)	68029	11.58	345
SK2-2 Sloped channel - 39.37' (1m)	68002	8.26	210	SK2-30 Sloped channel - 39.37' (1m)	68030	11.77	350
SK2-3 Sloped channel - 39.37' (1m)	68003	8.46	215	SK2-31 Sloped channel - 39.37' (1m)	68031	11.97	355
SK2-4 Sloped channel - 39.37' (1m)	68004	8.66	220	SK2-32 Sloped channel - 39.37' (1m)	68032	12.17	360
SK2-5 Sloped channel - 39.37' (1m)	68005	8.85	225	SK2-33 Sloped channel - 39.37' (1m)	68033	12.37	365
SK2-6 Sloped channel - 39.37' (1m)	68006	9.05	230	SK2-34 Sloped channel - 39.37' (1m)	68034	12.57	370
SK2-7 Sloped channel - 39.37' (1m)	68007	9.25	235	SK2-35 Sloped channel - 39.37' (1m)	68035	12.77	375
SK2-8 Sloped channel - 39.37' (1m)	68008	9.44	240	SK2-36 Sloped channel - 39.37' (1m)	68036	12.97	380
SK2-9 Sloped channel - 39.37' (1m)	68009	9.64	245	SK2-37 Sloped channel - 39.37' (1m)	68037	13.17	385
SK2-10 Sloped channel - 39.37' (1m)	68010	9.84	250	SK2-38 Sloped channel - 39.37' (1m)	68038	13.37	390
SK2-11 Sloped channel - 39.37' (1m)	68011	10.03	255	SK2-39 Sloped channel - 39.37' (1m)	68039	13.57	395
SK2-12 Sloped channel - 39.37' (1m)	68012	10.23	260	SK2-40 Sloped channel - 39.37' (1m)	68040	13.77	400
SK2-13 Sloped channel - 39.37' (1m)	68013	10.43	265	SK2-41 Sloped channel - 39.37' (1m)	68041	13.97	405
SK2-14 Sloped channel - 39.37' (1m)	68014	10.62	270	SK2-42 Sloped channel - 39.37' (1m)	68042	14.17	410
SK2-15 Sloped channel - 39.37' (1m)	68015	10.82	275	SK2-43 Sloped channel - 39.37' (1m)	68043	14.37	415
SK2-16 Sloped channel - 39.37' (1m)	68016	11.02	280	SK2-44 Sloped channel - 39.37' (1m)	68044	14.57	420
SK2-17 Sloped channel - 39.37' (1m)	68017	11.22	285	SK2-45 Sloped channel - 39.37' (1m)	68045	14.77	425
SK2-18 Sloped channel - 39.37' (1m)	68018	11.41	290	SK2-46 Sloped channel - 39.37' (1m)	68046	14.97	430
SK2-19 Sloped channel - 39.37' (1m)	68019	11.61	295	SK2-47 Sloped channel - 39.37' (1m)	68047	15.17	435
SK2-20 Sloped channel - 39.37' (1m)	68020	11.81	300	SK2-48 Sloped channel - 39.37' (1m)	68048	15.37	440
SK2-21 Sloped channel - 39.37' (1m)	68021	12.00	305	SK2-49 Sloped channel - 39.37' (1m)	68049	15.57	445
SK2-22 Sloped channel - 39.37' (1m)	68022	12.20	310	SK2-50 Sloped channel - 39.37' (1m)	68050	15.77	450
SK2-23 Sloped channel - 39.37' (1m)	68023	12.40	315	SK2-51 Sloped channel - 39.37' (1m)	68051	15.97	455
SK2-24 Sloped channel - 39.37' (1m)	68024	12.59	320	SK2-52 Sloped channel - 39.37' (1m)	68052	16.17	460
SK2-25 Sloped channel - 39.37' (1m)	68025	12.79	325	SK2-53 Sloped channel - 39.37' (1m)	68053	16.37	465
SK2-26 Sloped channel - 39.37' (1m)	68026	12.99	330	SK2-54 Sloped channel - 39.37' (1m)	68054	16.57	470
SK2-27 Sloped channel - 39.37' (1m)	68027	13.18	335	SK2-55 Sloped channel - 39.37' (1m)	68055	16.77	475

- This channel offers bottom knockout feature: 6" & 8" Round.
- Mounts shown are made and for female invert depth shown (L=0.2) from male invert (except neutral channels where it will be same as male invert).
- To calculate overall channel depth, add 25.4mm (1.0") to invert depth.
- Catch basin assembly includes polymer concrete top, trash bucket and plastic base. Grate not included.
- Catch basin assembly includes polymer concrete top, deep trash bucket, plastic riser and plastic base. Grate not included.
- Water intake per meter channel is 134.2 m<sup>3</sup> (865.80 cfm).
- See SK-8 ductile iron grate specification info for grate details.

Specifications	General	Materials	Compressive strength:	Flexural strength:	Water absorption:
General	The surface drainage system shall be ACO Drain PowerDrain S200K as manufactured by ACO, Inc. or equal approved. Add appropriate grate - see grate spec information.	The trench system bodies shall be manufactured from polymer concrete with maximum properties as follows:	14,000 psi	4,000 psi	0.07%
Installation	The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.	The ductile iron edge rail will be integrally cast in by the manufacturer to ensure homogeneous bonding between polymer concrete body and edge rail. Each edge rail shall be at least 1/4" (6mm) thick.			

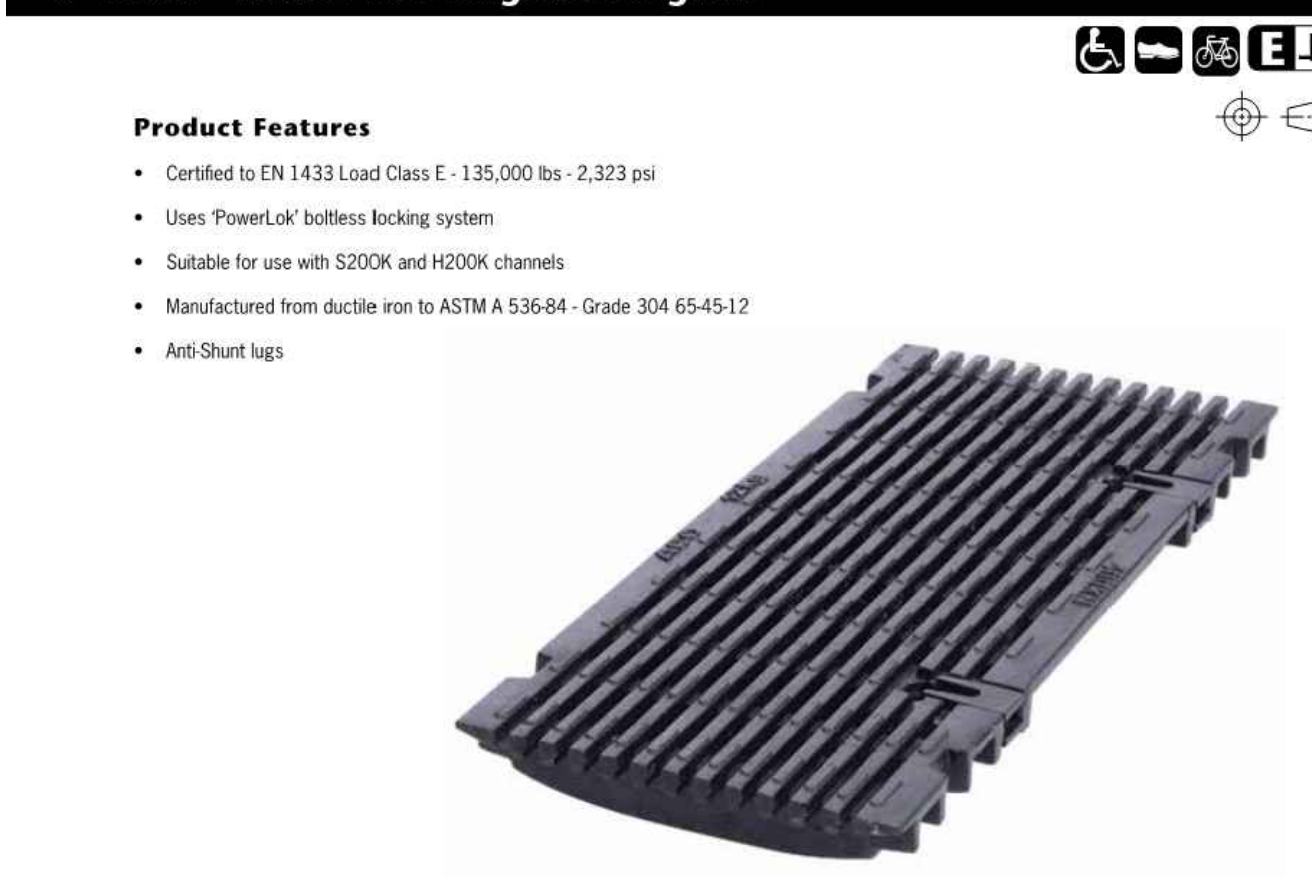
ACO, Inc. Northeast Sales Office 6470 Pinecroft Drive, Mentor, OH 44060 Tel: (440) 639-7230 Fax: (440) 639-7235

West Sales Office 825 W. Beechcraft St., Casa Grande, AZ 85122 Tel: (520) 421-9988 Fax: (800) 543-4764

Southeast Sales Office 4211 Pleasant Road, Fort Mill, SC 29508 Tel: (803) 543-4764 Fax: (803) 802-1063

ACO TRENCH DRAIN (OR EQUIVALENT)

ACO DRAIN 8" width - ductile iron longitudinal grate



**Product Features**

- Certified to EN 1433 Load Class E - 135,000 lbs - 2,323 psi
- Uses PowerLock boltless locking system
- Suitable for use with S200K and H200K channels
- Manufactured from ductile iron to ASTM A 536-84 - Grade 65-45-12
- Anti-Shunt Lug

**Specifications**

**General**  
The surface drainage system shall be ACO PowerDrain or SlabDrain, complete with ACO ductile iron longitudinal grate with 'PowerLock' locking as manufactured by ACO, Inc. or similar approved.

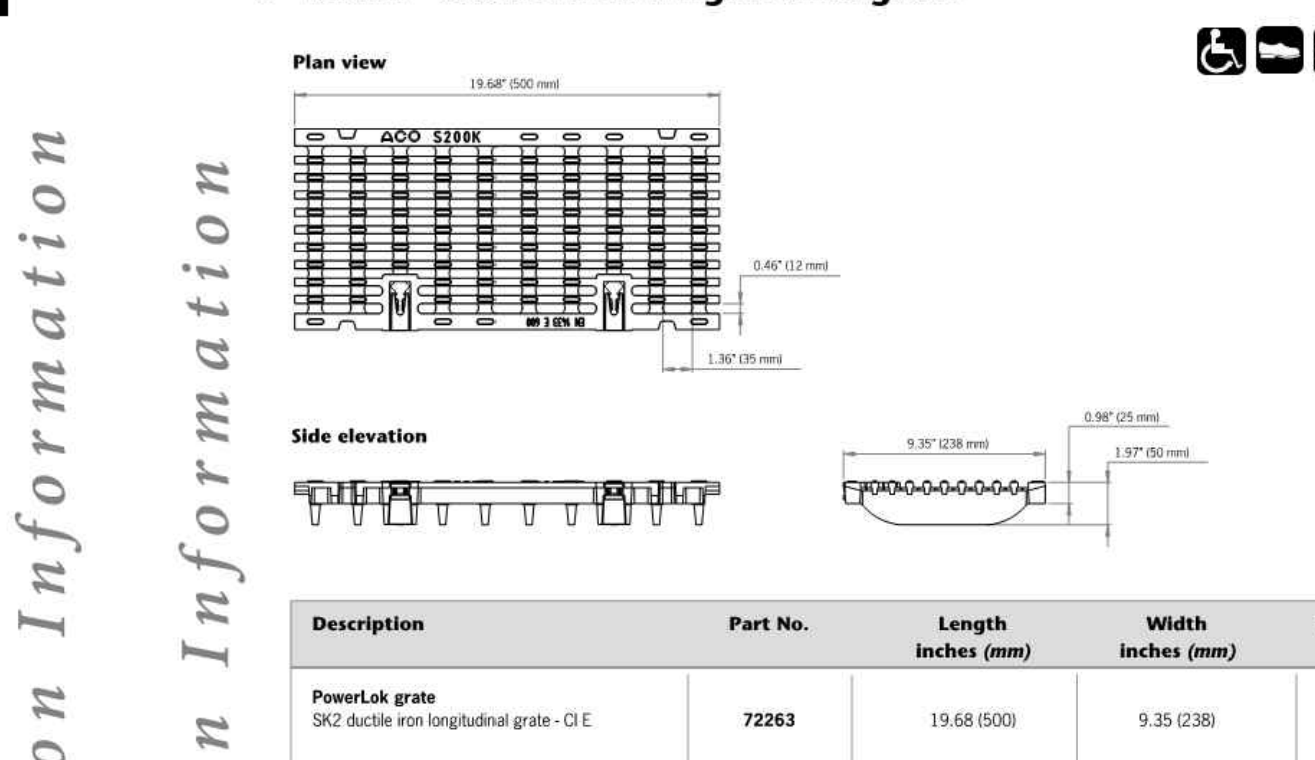
**Materials**  
The covers shall be manufactured from ductile iron and have minimum properties as follows:  

- Independently certified to meet Load Class E to EN 1433 - 135,000 lbs - 2,323 psi
- Ductile iron to ASTM 536-84 - Grade 65-45-12
- Intake area of 395 sq. cm per 1/2 meter of grate

The overall width of 9.35" (238mm) and overall length of 19.68" (500mm). Slots measure at a maximum of 1.36" (35mm).

**Installation**  
The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.

ACO DRAIN 8" width - ductile iron longitudinal grate



**PowerLock locking mechanism**

The ACO PowerLock is a patented boltless locking system. Grates are removed and replaced with minimum time and effort for ease of maintenance.

Lugs on the rail opposite the PowerLock device slots into recesses in the grate. The PowerLock device is used to engage the lug on the rail at two locations per grate to 'lock' the grate to the channel.

ACO, Inc. Northeast Sales Office 6470 Pinecroft Drive, Mentor, OH 44060 Tel: (440) 639-7230 Fax: (440) 639-7235

West Sales Office 825 W. Beechcraft St., Casa Grande, AZ 85122 Tel: (520) 421-9988 Fax: (800) 543-4764

Southeast Sales Office 4211 Pleasant Road, Fort Mill, SC 29508 Tel: (803) 543-4764 Fax: (803) 802-1063

ACO TRENCH DRAIN (OR EQUIVALENT)

Approval \_\_\_\_\_ Date \_\_\_\_\_

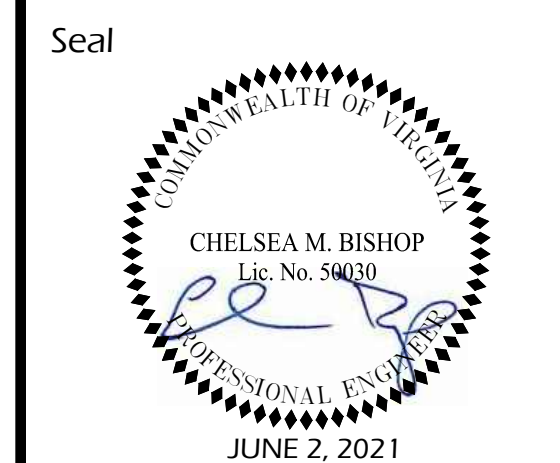
Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

Filename: c-17-150396024.dwg  
Plotted: 2021-06-02

Scale: 1" = 25'  
Date: JUNE 2, 2021



Sheet

**21-DPR-ITB-646**

Project Name and Location

**Marcey  
Road Park  
Improvements  
(By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**PRE-  
DEVELOPMENT  
WATER  
QUALITY MAP**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB  
c-18-150396024  
Filename: pre-development water  
quality map.dwg  
Plotted: 2021-06-02

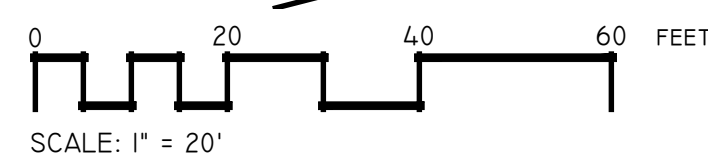
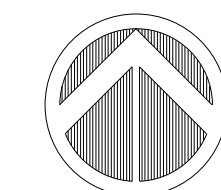
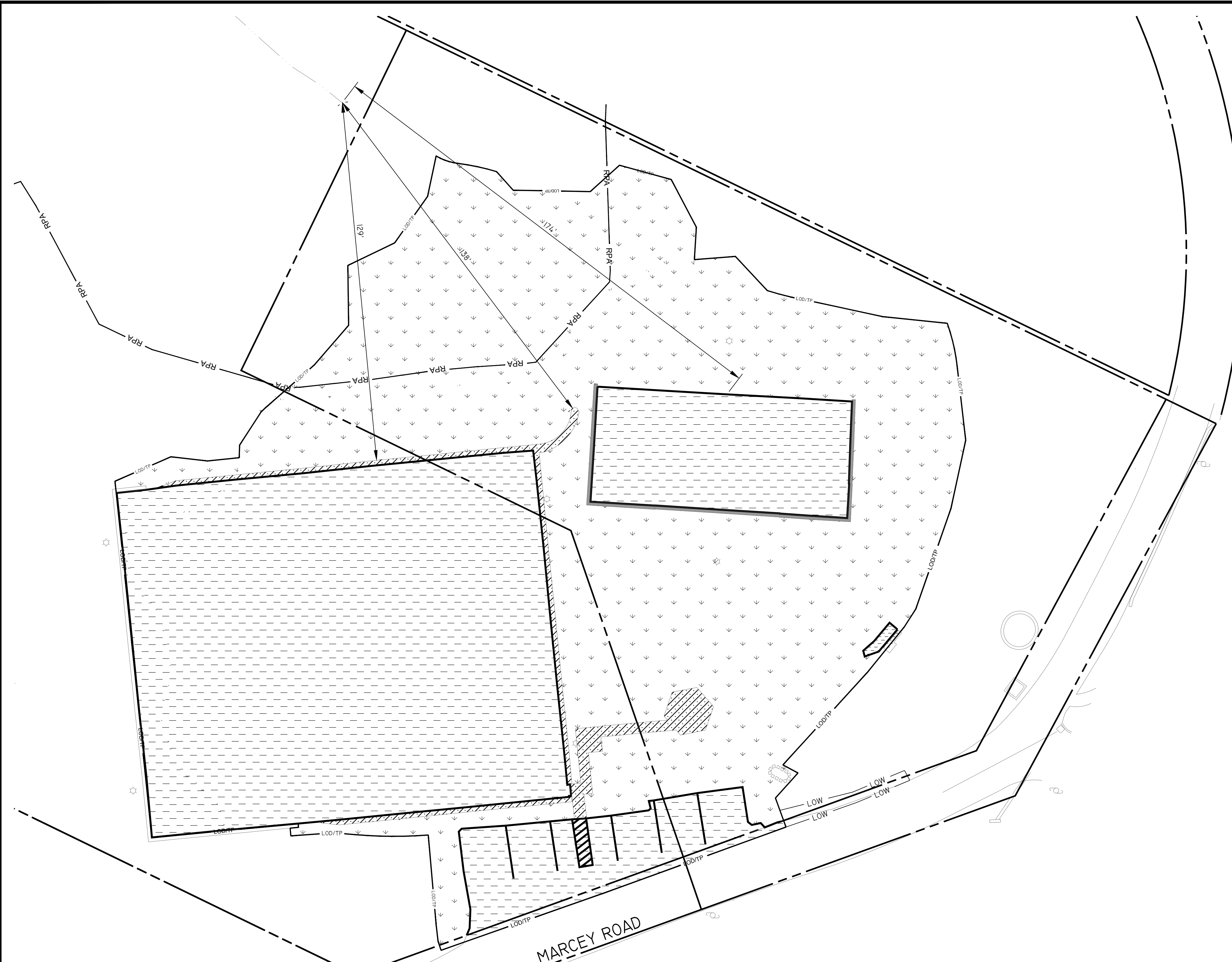
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Date: JUNE 2, 2021

Seal



Sheet

**C-18**



**PRE-DEVELOPMENT WATER QUALITY LEGEND**

- LOD/TP LIMITS OF DISTURBANCE/TREE PROTECTION FENCE - 56,871 SF (1.3056 AC)
- RPA RESOURCE PROTECTION AREA
- PROPERTY LINE
- LOW LIMITS OF WORK
- MANAGED TURF - 29,671 SF (0.6812 AC)

**EXISTING IMPERVIOUS AREAS**

MATERIAL	SURFACE AREA (SF)	LEGEND
CONCRETE PAVING	1,170	
WALL	230	
ASPHALT	25,800	
<b>TOTAL AREA</b>	<b>27,200 (0.6244 AC)</b>	



**21-DPR-ITB-646**

Project Name and Location

**Marcey  
Road Park  
Improvements  
(By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**POST-  
DEVELOPMENT  
WATER  
QUALITY MAP**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB  
c-19-150396024  
Filename: post-development water  
quality map.dwg  
Plotted: 2021-06-02

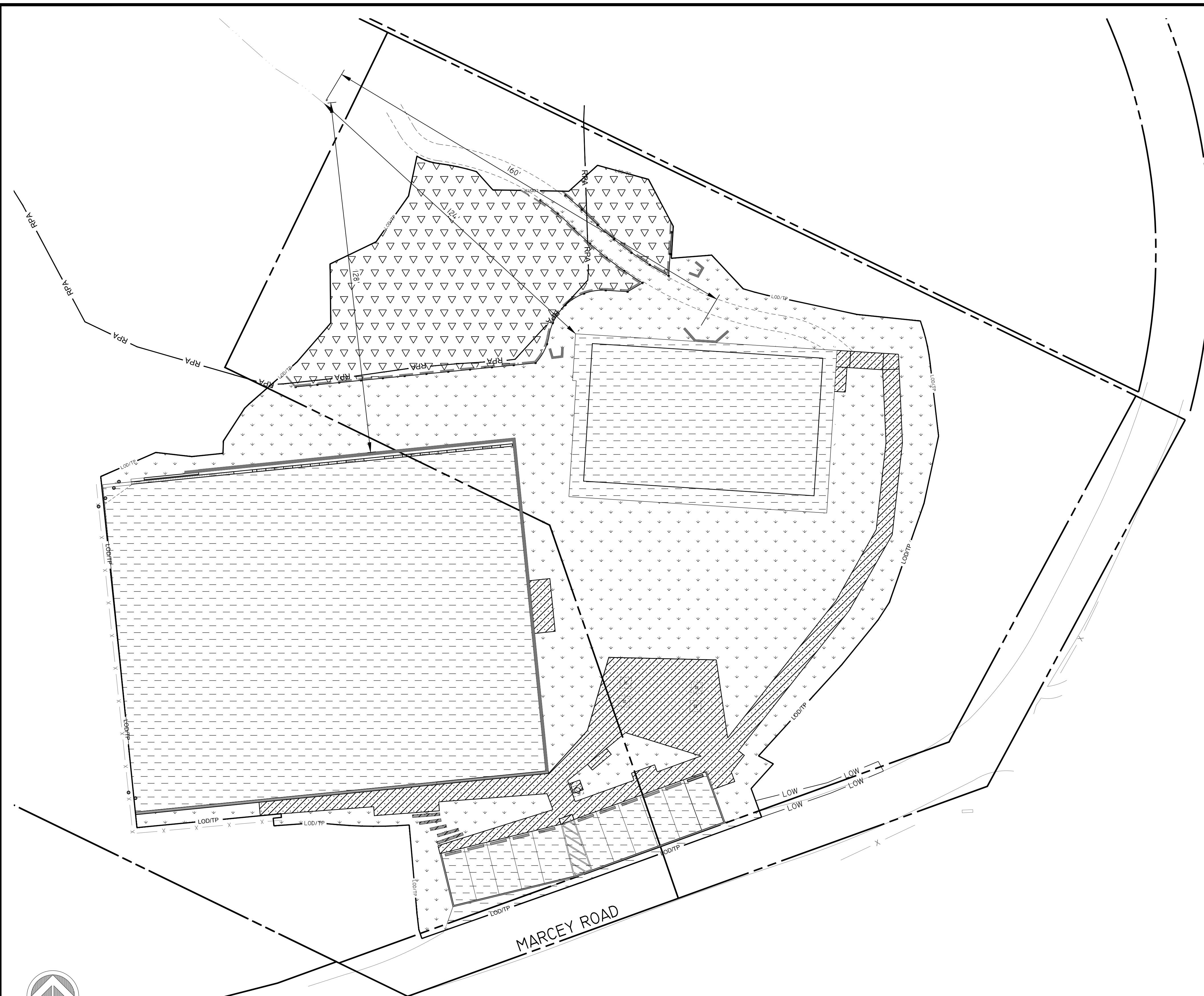
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Date: JUNE 2, 2021

Seal



Sheet

**C-19**

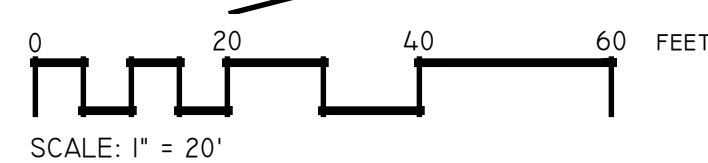
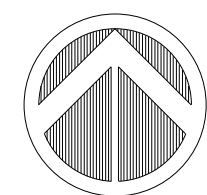


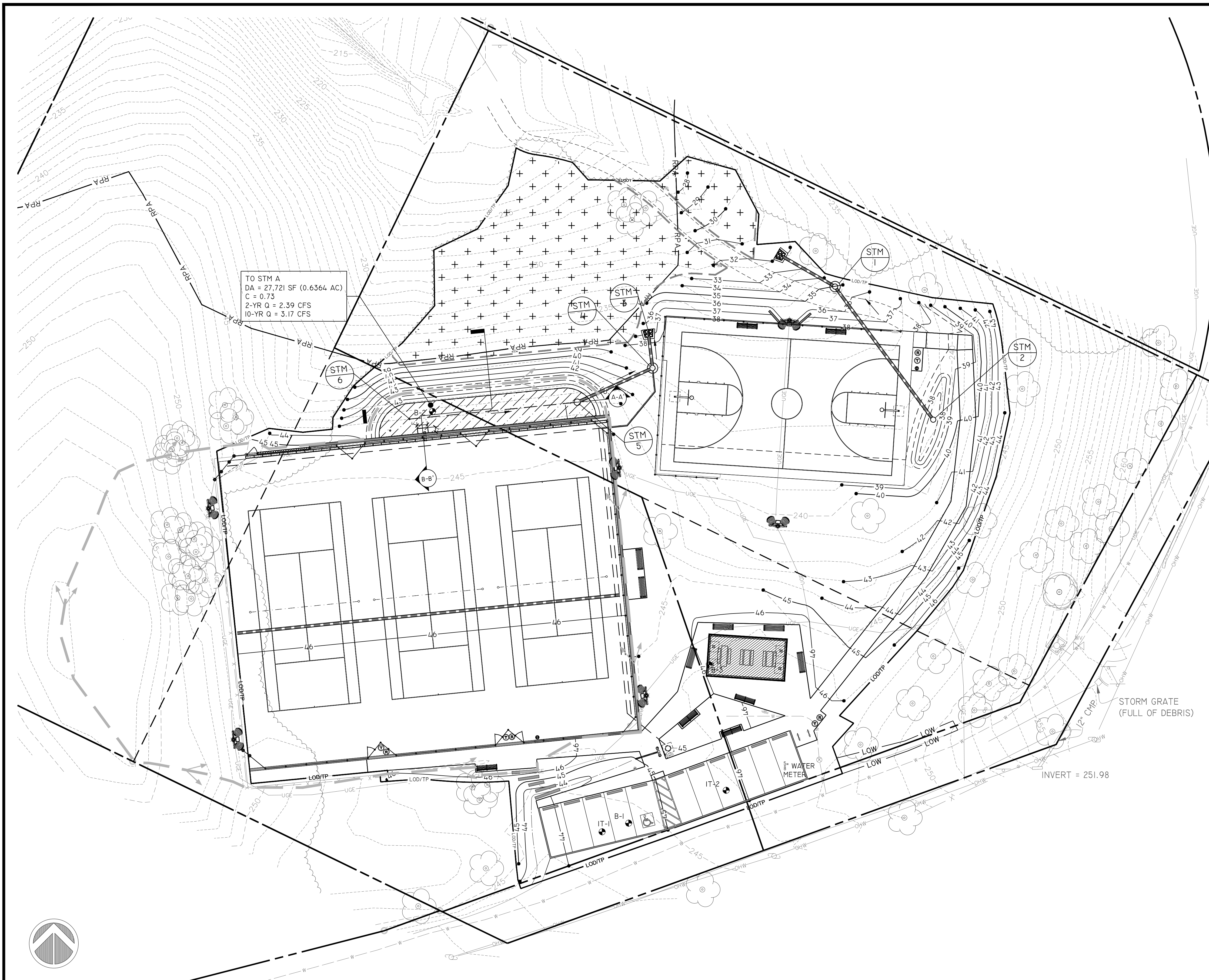
**POST-DEVELOPMENT WATER QUALITY LEGEND**

- LOD/TP LIMITS OF DISTURBANCE/TREE PROTECTION FENCE - 56,871 SF (1.3056 AC)
- RPA RESOURCE PROTECTION AREA
- PROPERTY LINE
- LOW LIMITS OF WORK
- MANAGED TURF - 19,505 SF (0.4478) AC
- FORESTED AREA - 6,530 SF (0.1499 AC)

**PROPOSED IMPERVIOUS AREAS**

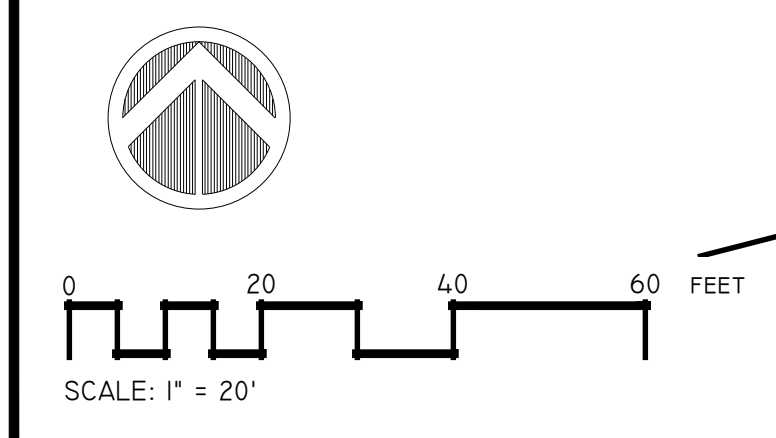
MATERIAL	SURFACE AREA (SF)	LEGEND
CONCRETE PAVING	4,892	
WALL	269	
ASPHALT PAVING	25,675	
<b>TOTAL AREA</b>	<b>30,836 (0.7079 AC)</b>	





**STORMWATER MANAGEMENT LEGEND**

SYMBOL	DESCRIPTION
---	PROPERTY LINE
- - - -	RESOURCE PROTECTION AREA
---	LIMITS OF DISTURBANCE/TREE PROTECTION FENCE
---	LIMITS OF WORK
→	BMP DRAINAGE DIVIDE
+	REFORESTED AREA - 6,530 SF (0.1499 AC)
▨	BIORETENTION FACILITY (LEVEL 1)



DEPARTMENT OF PARKS  
AND RECREATION

Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**STORMWATER MANAGEMENT PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB

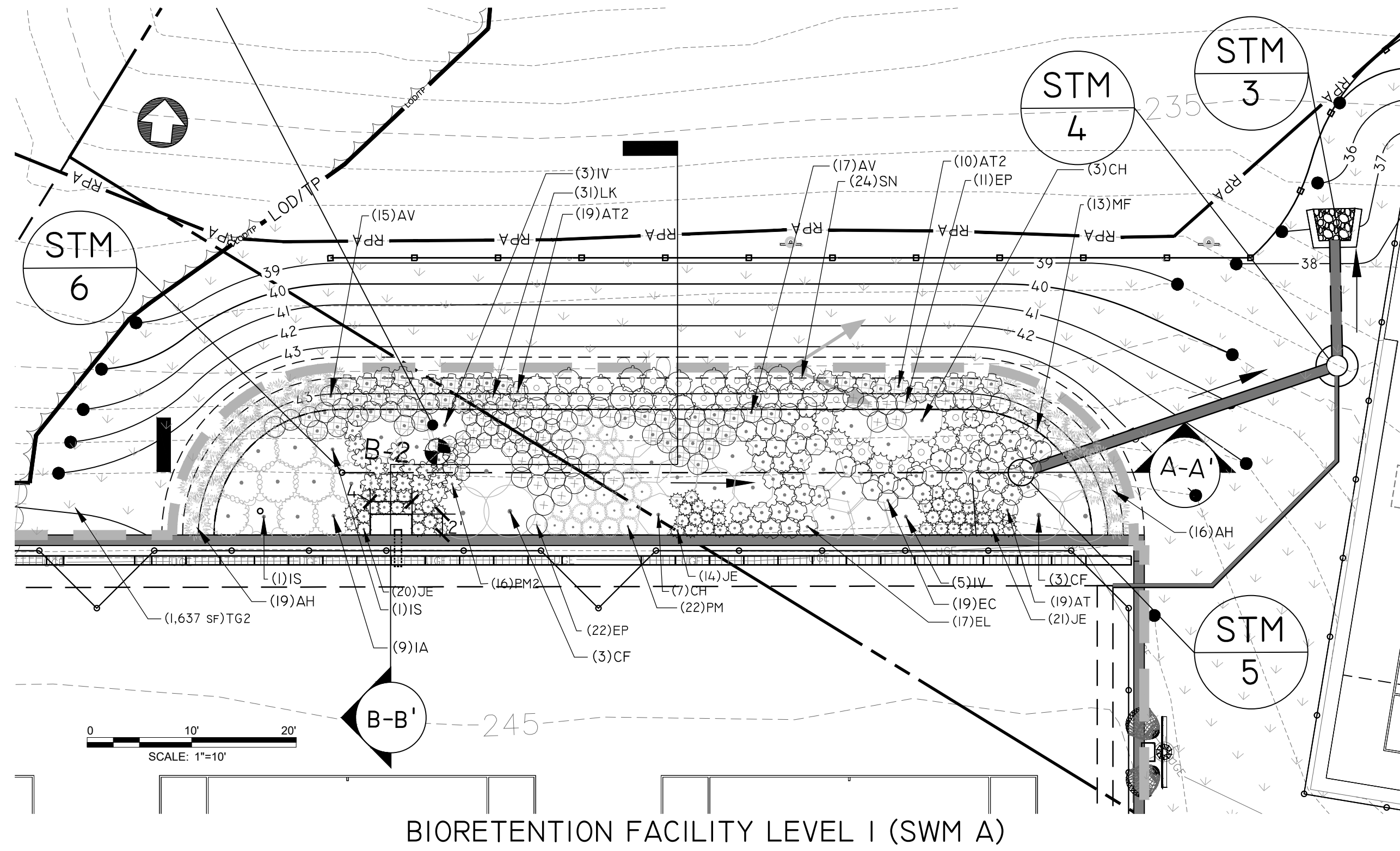
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 Plotted: 2021-06-02

Scale: 1" = 20'  
 Date: JUNE 2, 2021

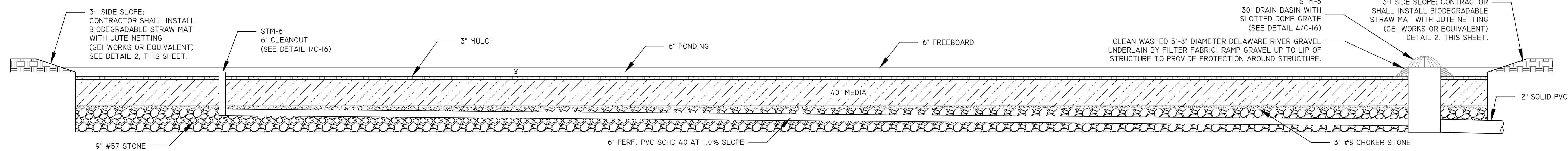


Sheet  
**C-20**

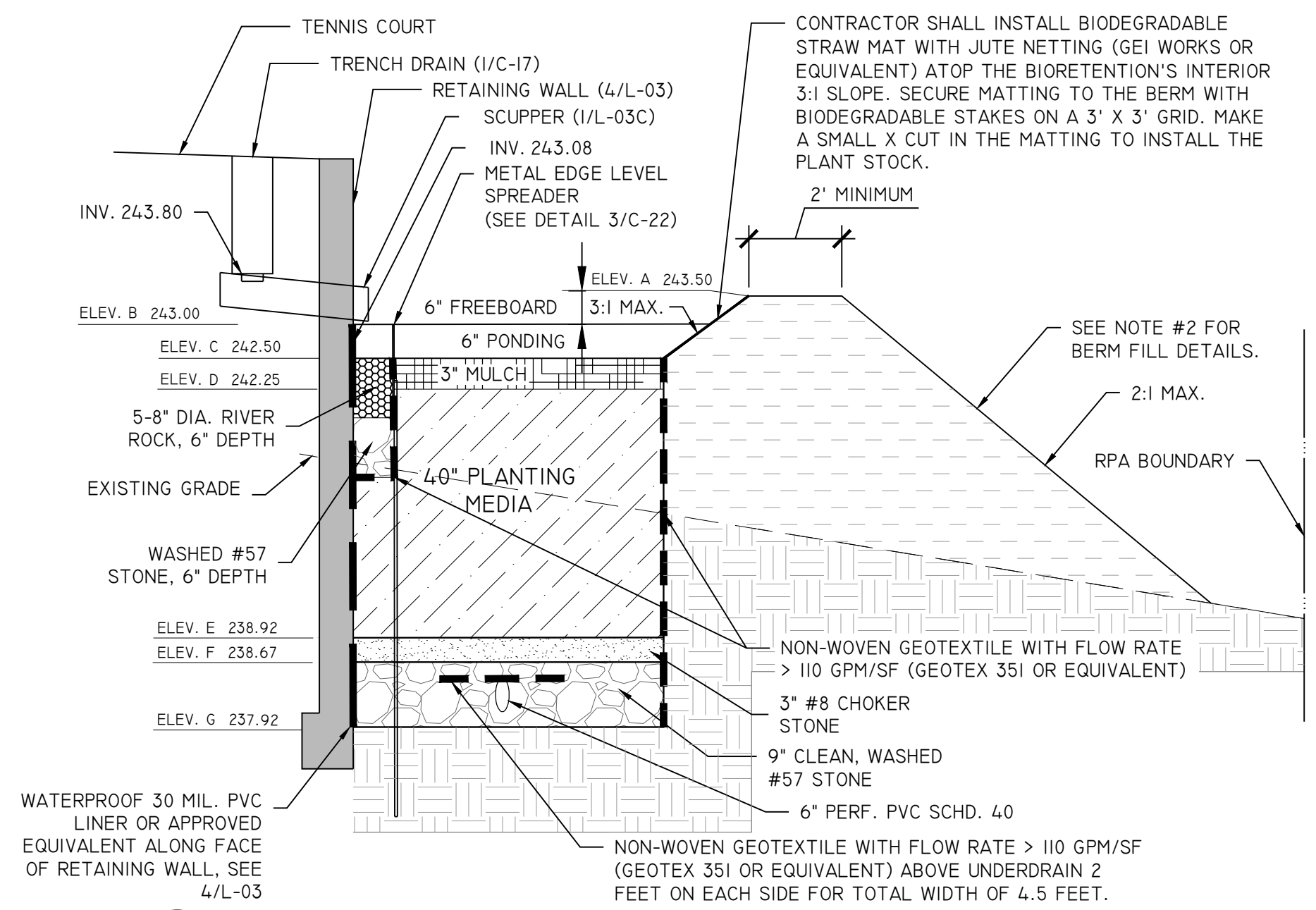




PLANT SCHEDULE SWM ENLARGEMENT				
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
○	CH	10	CLETHRA ALNIFOLIA 'HUMMINGBIRD' SUMMERSWEET	5 GAL
○	CF	6	CORNUS SERICEA 'FLAVIRAMEA' YELLOW TWIG DOGWOOD	3 GAL
○	IA	9	ILEX VERTICILLATA 'AFTERGLOW' AFTERGLOW WINTERBERRY	3 GAL
○	IS	2	ILEX VERTICILLATA 'SOUTHERN GENTLEMAN' SOUTHERN GENTLEMAN WINTERBERRY HOLLY	3 GAL
○	IV	8	ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET SWEETSPIRE	3 GAL
ANNUALS/PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
☼	AH	55	AMSONIA HUBRICHTII ARKANSAS BLUE-STAR	1 GAL
☼	AT	19	AMSONIA TABERNAEMONTANA SALICIFOLIA BLUESTAR	1 GAL
☼	AT2	29	ASCLEPIAS TUBEROSA BUTTERFLY MILKWEED	1 GAL
☼	AV	32	ASCLEPIAS VERTICILLATA EASTERN WHORLED MILKWEED	1 GAL
☼	EC	19	EUPATORIUM COELESTINUM BLUE MISTFLOWER	1 GAL
☼	EL	17	EUPATORIUM DIBILIM 'LITTLE JOE' LITTLE JOE JOE-PIE WEE	1 GAL
☼	EP	55	EUPATORIUM PERFOLIATUM COMMON BONESET	1 GAL
☼	JE	55	JUNCLUS EFFUSUS SOFT RUSH	1 GAL
☼	LK	51	LIATRIS SPICATA 'KOBOLD' SPIKE GAYFEATHER SPACING APPROX. 16" O.C. SEE PLAN.	1 GAL
☼	MF	15	MONARDA FISTULOSA WILD BERGAMOT	1 GAL
☼	PM	22	PHYSOTEGIA VIRGINIANA 'MISS MANNERS'™ MISS MANNERS OBEYDIANT PLANT	1 GAL
☼	PK2	16	PHYCANTHEMUM MUTICUM CLUSTERED MOUNTAINMINT	1 GAL
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	CONT
☼	SN	24	SORGHASTRUM NUTANS INDIAN GRASS	1 GAL
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
☼	TG2	1,637 SF	TURF/GRASS 500 TURF PER SPECIFICATIONS	AREA



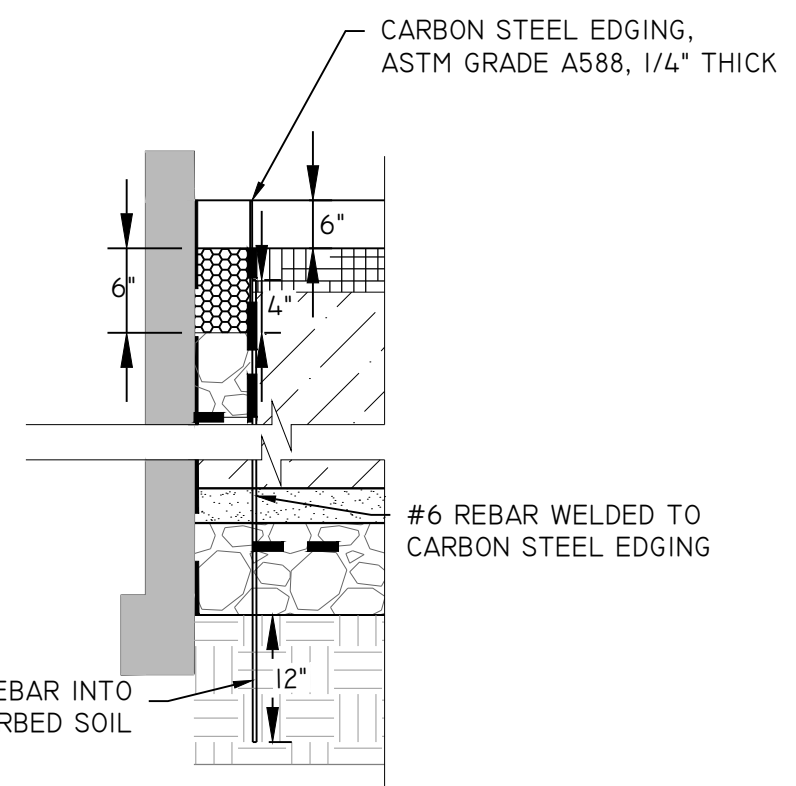
1 BIORETENTION FACILITY SECTION A-A' N.T.S.



2 BIORETENTION FACILITY SECTION B-B' N.T.S.

- NOTES:
- ALL UNDER DRAINS SHOWN IN BIORETENTION FACILITIES ARE 6" PERFORATED SCHEDULE 40 PVC PIPE 3/8" PERF. @ 6" O/C LENGTH WISE WITH 3 ROWS AT 120° RADIALLY AROUND WITH THE EXCEPTION OF THE FIRST 5 FT WHICH IS SOLID 6" PVC.
  - BERM FILL SHALL CONSIST OF CLEAN MATERIAL FREE OF ORGANIC MATTER, RUBBISH, FROZEN SOIL, SNOW, ICE, PARTICLES WITH SIZES LARGER THAN 3 INCHES, OR OTHER DELETERIOUS MATERIAL. FILL SHALL BE PLACED IN 8 TO 12-INCH LIFTS AND COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-698, AASHTO T-99, OR VDOT SPECIFICATIONS. COMPACTION EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE FACILITY ON THE SOIL BED. THE TOP OF THE BERM SHALL BE CONSTRUCTED LEVEL AT THE DESIGN ELEVATION.

Facility name/type	Design Level	Impervious Area to Facility	Pervious Area to Facility	Total Drainage Area	Total Drainage Area	Rainfall Depth (P)	Rv	Target storage (WQv)	Ponding depth	Filter depth	Gravel depth	Filter : Gravel Depth Ratio	Gravel Sump below underdrain Required for Level 2 Designs that include an underdrain (No storage credit provided)	Ponding Surface Area	Mulch Surface Area	Ponding Volume (1.00 void)	Soil Storage Volume (0.25 void)	Gravel Storage Volume (0.4 void)	Available Storage	% Water Quality Volume Captured
Bioretention #1	Level 1	19107	8614	27721	0.6364	1.00	0.72	1670.56	6	40	12	3.33	N/A	1096.22	946.46	510.67	788.72	378.58	1677.97	100.4%
REFORESTATION: 6,530 SF (0.1499 AC); SEE SHEET REF-01																				



3 BIORETENTION METAL EDGE LEVEL SPREADER N.T.S.



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 Park Development Division  
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 Arlington, VA 22201  
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21-DPR-ITB-646

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**STORMWATER MANAGEMENT NOTES AND DETAILS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: c20-150396024 swm plan.dwg  
 Plotted: 2021-06-02

Scale: N.T.S.  
 Date: JUNE 2, 2021



Sheet  
**C-22**

**Construction Inspection Checklist: Bioretention**

Address/Location: \_\_\_\_\_ Building Permit #: \_\_\_\_\_  
 LDA Permit #: \_\_\_\_\_ SWM#: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Telephone: \_\_\_\_\_  
 Certifying Professional\*: \_\_\_\_\_ Telephone: \_\_\_\_\_  
 Date Started: \_\_\_\_\_ Final Inspection Date: \_\_\_\_\_



\*Certifying professional must be a licensed Professional Engineer (PE), Landscape Architect (LA), or Land Surveyor (LS).

The following checklist provides a basic outline of the anticipated items for the construction inspection of bioretention facilities. This checklist does not necessarily distinguish between all the design variations and differences in construction between the family of practices. Inspectors should review the plans carefully, and adjust these items and the timing of inspection verification as needed to ensure the intent of the design is met. The standard for design of this practice is based on Virginia Stormwater BMP Clearinghouse and Arlington County Stormwater Guidance Manual.

All items should be checked when completed. **Items labeled "Certification of..." must be crossed off, dated and initialed by certifying inspector.**

PRE-CONSTRUCTION MEETING	DATE
<input type="checkbox"/> Identify the tentative schedule for construction and verify the requirements and schedule for interim inspections.	
<input type="checkbox"/> All pervious areas of the contributing drainage areas have been adequately stabilized with a thick layer of vegetation or erosion control measures are still in place and stormwater has been diverted around the area.	
<input type="checkbox"/> Area of bioretention practice has not been impacted during construction.	
<input type="checkbox"/> Conduct a pre-construction meeting with the contractor designated to install the bioretention, the person completing this checklist, and the County DES Stormwater Specialist Inspector (schedule via stormwaterreview@arlingtonva.us).	

EXCAVATION	DATE
<input type="checkbox"/> Area of bioretention excavation is marked and the size and location conforms to plan.	
<input type="checkbox"/> If the excavation area has been used as a sediment trap: verify that the bottom elevation of the proposed stone reservoir is lower than the bottom elevation of the existing trap.	
<input type="checkbox"/> For Level 2 bioretention, ensure the bottom of the excavation is scarified prior to placement of stone.	
<input type="checkbox"/> Subgrade surface is free of rocks and roots, and large voids. Any voids should be refilled with the base aggregate to create a level surface for the placement of aggregates and underdrain (if required).	
<input type="checkbox"/> No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device.	
<input type="checkbox"/> Excavation of the bioretention practice has achieved proper grades and the required geometry and elevations without compacting the bottom of the excavation. <b>Constructed dimensions:</b> _____	
<input type="checkbox"/> Sides of excavation covered with geotextile; no tears, holes, or excessive wrinkles are present.	

<b>Certification of Excavation Inspection:</b> Inspector certifies the successful completion of the excavation steps listed above.	
<input type="checkbox"/> Photos required include: <ul style="list-style-type: none"> <li>Excavated area prior to installation of stone, including measurements (L x W x D);</li> <li>Non-woven geotextile fabric installed on sides of excavated subgrade only.</li> </ul>	
Material delivery ticket include: <ul style="list-style-type: none"> <li>Geotextile installed on sides</li> </ul>	

FILTER LAYER, UNDERDRAIN, AND STONE RESERVOIR PLACEMENT	DATE
<input type="checkbox"/> All aggregates conform to specifications as certified by quarry.	
<input type="checkbox"/> Underdrain size and perforations meet the specifications (if applicable).	
<input type="checkbox"/> If the underdrain is directly tied into the public storm sewer system, the connection has been witnessed by DES inspector.	
<input type="checkbox"/> For Level 2 installations: placement of filter layer and initial lift of stone reservoir layer aggregates with underdrain or infiltration sump, spread (not dumped) to avoid aggregate segregation	
<input type="checkbox"/> Placement of underdrain, observation wells, and underdrain fittings are in accordance with the approved plans.	
<input type="checkbox"/> Elevations of underdrain and outlet structure are in accordance with approved plans, or as adjusted to meet field conditions and denoted in Comments section.	
<input type="checkbox"/> Placement of remaining lift of stone reservoir layer as needed to achieve the required reservoir depth.	

<b>Certification of Filter Layer and Underdrain Placement Inspection:</b> Inspector certifies the successful completion of the filter layer and underdrain placement steps listed above. Photos and material delivery tickets for these items are attached.	
Photos required include: <ul style="list-style-type: none"> <li>Perforated underdrain pipe (if applicable) with a solid vertical overflow pipe;</li> <li>Depth of #57 stone;</li> <li>Depth of choker stone (pea gravel or #8);</li> <li>Underdrain connection to public storm sewer system (if applicable).</li> </ul>	
Material delivery tickets required include: <ul style="list-style-type: none"> <li>57 stone;</li> <li>Choker stone (pea gravel or #8).</li> </ul>	

BIORETENTION SOIL MEDIA PLACEMENT	DATE
<input type="checkbox"/> Soil media is certified by supplier or contractor as meeting the project specifications and comes from an approved soil media vendor.	
<input type="checkbox"/> Soil media is placed in 12-inch lifts to the design top elevation of the bioretention area, and lifts have been lightly watered. Elevation has been verified after settlement (2 to 4 days after initial placement).	
<input type="checkbox"/> Side slopes of ponding area are feathered back at the required slope (no steeper than 3H:1V).	
<b>Certification of Soil Media Placement Inspection:</b> Inspector certifies the successful completion of the soil media steps listed above and any necessary photos are attached.	
<input type="checkbox"/> Photo required of a measurement of the soil media installed.	
Material delivery ticket required from an <u>approved soil media vendor</u> .	

PRETREATMENT AND PLANT INSTALLATION	DATE
<input type="checkbox"/> Risor, overflow weir, or other outflow structure is set to the proper elevation, receive the proper compaction and are functional.	
<input type="checkbox"/> Placement of energy dissipaters and pretreatment practices (forebays, gravel diaphragms, etc.) are installed in accordance with the approved plans.	
<input type="checkbox"/> Appropriate number and spacing of plants are installed in accordance with the approved plans. Microbioretentions use the appropriate number of plants from VA DEQ Table 9.4, bioretentions follow the approved landscape plan.	
<input type="checkbox"/> Ponding depth verification after plant and mulch placement.	

<b>Certification of Pretreatment and Plant Installation:</b> Inspector certifies the successful completion of any pretreatment measures, plants and mulch as listed above.	
Photos/Elevations required for this step include: <ul style="list-style-type: none"> <li>Overall photos of showing mulch and plants installed;</li> <li>Location of inflow and appropriate energy dissipation;</li> <li>Microbioretention with sheetflow as the inflow: string line measurement showing the swale.</li> <li>Bioretention with sheetflow as the inflow: survey of the swale.</li> <li>Any pretreatment measures required per the approved plans;</li> <li>Distance from the top of the mulch to the top of the overflow (either pipe or berm).</li> <li>Microbioretention: string line measurement showing the surface of the microbioretention is level and has the appropriate ponding depth over the entire surface.</li> <li>Bioretention: as-built survey that captures the top of mulch and top of overflow to achieve the proper ponding depth.</li> </ul>	
Material delivery tickets required for this step include: <ul style="list-style-type: none"> <li>Approved plants listing number and species;</li> <li>Shredded hardwood mulch.</li> </ul>	

BIORETENTION TESTING	DATE
<input type="checkbox"/> A bioretention that uses infiltration to drain (i.e., it has no underdrain) must be tested for infiltration rate upon completion and must function as designed.	

COMMENTS (CLARIFICATION, DEVIATIONS, ETC.)	DATE

All items checked above have been inspected by me (or by an individual under my responsible charge) and have been completed to my satisfaction and meet the approved plans (or deviations are noted here).

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

Certifying Professional's License Number (or Seal): \_\_\_\_\_

- See attached sealed final location survey with the installed stormwater management facilities appropriately labeled and certification letter

Bioretention | March 2020

Bioretention | March 2020

Bioretention | March 2020

**Bioretention Maintenance Schedule**

Maintenance	Frequency
<ul style="list-style-type: none"> <li>Spot weeding, erosion repair, trash removal, and mulch raking</li> </ul>	Twice during growing season
<ul style="list-style-type: none"> <li>Add reinforcement planting to maintain the desired vegetation density</li> <li>Remove invasive plants using recommended control methods</li> <li>Stabilize the contributing drainage area to prevent erosion</li> </ul>	As needed
<ul style="list-style-type: none"> <li>Spring inspection and cleanup</li> <li>Supplement mulch to maintain a 2-3 inch layer</li> <li>Prune trees and shrubs</li> </ul>	Annually
<ul style="list-style-type: none"> <li>Remove sediment in pre-treatment cells and inflow points</li> </ul>	Once every 2 to 3 years
<ul style="list-style-type: none"> <li>Replace the mulch layer</li> </ul>	Every 3 years
<ul style="list-style-type: none"> <li>Inspected and certified by a professional licensed in the State of Virginia</li> </ul>	Once every 5 years

**Bioretention Basin Material Specifications**

Material	Specification	Notes
<b>Filter Media Composition</b>	Filter Media to contain: <ul style="list-style-type: none"> <li>80%-90% sand with &gt;75% being coarse to very coarse</li> <li>10%-20% soil fines</li> <li>3%-5% organic matter in the form of plant based compost meeting Clearinghouse Design Specification #4, Section 6.5</li> </ul>	The volume of filter media based on 110% of the plan volume, to account for settling or compaction.
<b>Filter Media Testing</b>	Plant available P within Low+ (L+) to Medium (M) per DCR 2014 Nutrient Management Criteria (18-40 mg/kg P for the Mehlich III procedure) and CEC >5	The media can be procured from approved filter media vendors or mixed onsite with testing results meeting standard for both texture and nutrient composition.
<b>Mulch Layer</b>	Use aged, shredded hardwood bark mulch	Lay a 2 to 3 inch layer on the surface of the filter bed.
<b>Geotextile/Liner</b>	Use a non-woven geotextile fabric with a flow rate of > 110 gal./min./sq. ft. (e.g., Geotex 351 or equivalent)	Apply only to the vertical sides and 2' on each side of the underdrain. Do not install at the bottom or between layers.
<b>Choking Layer</b>	3 inch layer of pea gravel or VDOT #8 stone which is laid over the underdrain stone.	
<b>Stone Jacket for Underdrain and/or Storage Layer</b>	1 inch stone should be double-washed and clean and free of all fines (e.g., VDOT #57 stone).	12 inches for the underdrain; 12 to 18 inches for the stone storage layer, if needed
<b>Underdrains, Cleanouts, and Observation Wells</b>	Use 6 inch rigid schedule 40 PVC pipe for bioretention basins, with 3/8-inch perforations at 6 inches on center, maximum of 3 rows of perforations; position each underdrain on a 1% or 2% slope located nor more than 20 feet from the next pipe.	All bioretentions are to have an observation well, cleanout or overflow pipe. Lay the perforated pipe under the length of the bioretention cell, and install non-perforated pipe as needed to connect with the storm drain system. Install T's and Y's as needed, depending on the underdrain



**DEPARTMENT OF PARKS AND RECREATION**

Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
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**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**

(County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title

**STORMWATER MANAGEMENT DETAILS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: c-20-150396024 swm plan.dwg  
 Plotted: 2021-06-02

Scale: N.T.S.  
 Date: JUNE 2, 2021

Seal



Sheet

**C-23**

**3.4 In-Situ Infiltration Test Results**

The individual infiltration test results are included as an attachment to this report (Appendix V) and summarized in the Table 2 below:

**Table 1 - Summary of Infiltration Test Results**

Infiltration Boring no.	Depth of Boring from Existing ground level (ft.)	Estimated Infiltration Rate (inches/hour)
IT-1	6.0	2.62
IT-2	6.0	0.51

All in-situ infiltration test rates were found to be higher than the required minimum infiltration rate of 0.5 in/hr.

**KEY TO SYMBOLS**

Symbol	Description	Soil Samplers
	Paving	
	Topsoil	
	Silt (ML)	
	Silty sand (SM)	
	Low plasticity clay (CL)	
	Elastic silt/sand (ML/SM)	

**Notes:**

1. Exploratory borings were drilled on 5/7/2020 using a 4-inches diameter continuous flight power auger.
2. No groundwater was encountered at the time of drilling or when re-checked the following day.
3. Boring locations were staked from existing features from the design schematic plan.
4. These logs are subject to the limitations, conclusions, and recommendations in this report.
5. Results of tests conducted on samples recovered are reported on the logs.

**REFERENCE NOTES FOR BORING LOGS**

**I. Drilling and Sampling Symbols:**

SS - Split Spoon Sampler	RB - Rock Bit Drilling
ST - Shelby Tube Sampler	BS - Bulk Sample of Cuttings
RC - Rock Core; NX, BX, AX	PA - Power Auger (no sample)
PM - Pressuremeter	HSA - Hollow Stem Auger
DC - Dutch Cone Penetrometer	WS - Wash Sample

Standard Penetration Test (SPT) resistance refers to the blows per foot (bpf) of a 140 lb hammer falling 30 inches on a 2 in. O.D. split-spoon sampler as specified in ASTM D-1586. The blow count is commonly referred to as the N-value.

**II. Correlation of Penetration Resistances to Soil Properties:**

**Relative Density of Cohesionless Soils**

SPT-N (bpf)	Relative Density
0 - 3	Very Loose
4 - 9	Loose
10 - 29	Medium Dense
30 - 50	Dense
>51	Very Dense

**Consistency of Cohesive Soils**

SPT-N (bpf)	Consistency
0 - 1	Very Soft
2 - 4	Soft
5 - 8	Firm
9 - 15	Stiff
16 - 30	Very Stiff
31 - 50	Hard
>51	Very Hard

Weathered Rock (WR) may be defined as SPT-N values exceeding 60 bpf depending on site specific conditions. Refer carefully to boring logs.

Rock Fragments, gravel, cobbles, boulders, or debris may produce N-values that are not representative of actual soil properties.

**III. Unified Soil Classification Symbols:**

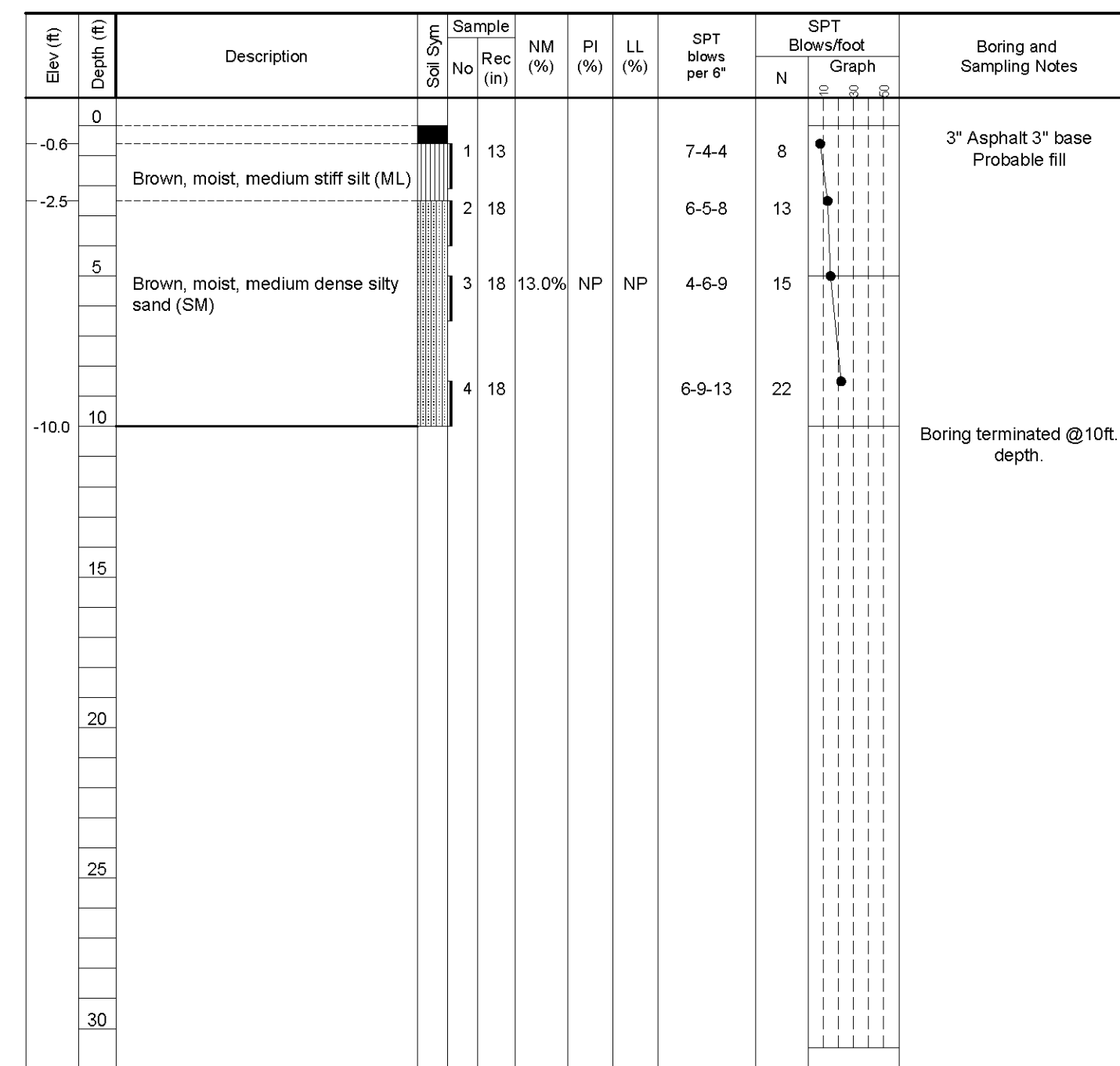
GP - Poorly Graded Gravel	ML - Low Plasticity Silts
GW - Well Graded Gravel	MH - High Plasticity Silts
GM - Silty Gravel	CL - Low Plasticity Clays
GC - Clayey Gravels	CH - High Plasticity Clays
SP - Poorly Graded Sands	OL - Low Plasticity Organics
SW - Well Graded Sands	OH - High Plasticity Organics
SM - Silty Sands	CL-ML - Dual Classification (Typical)
SC - Clayey Sands	

**IV. Laboratory Testing and Water Level Symbols:**

LL - LIQUID LIMIT (%)	Water Level at Time Drilling, or as Shown
PI - PLASTIC INDEX (%)	Water Level at End of Drilling, or as Shown
W - MOISTURE CONTENT (%)	Water Level After 24 Hours, or as Shown
DD - DRY DENSITY (PCF)	
NP - NON PLASTIC	
-200 - PERCENT PASSING NO. 200 SIEVE	
PP - POCKET PENETROMETER (TSF)	

**HILLIS - CARNES ENGINEERING ASSOCIATES, INC.**  
**RECORD OF SOIL EXPLORATION**

Project Name: Marcey Road Park Boring No. B1  
Location: 2722 Marcey Rd, Arlington, VA 22207 Job # C20043  
Datum: OGL Hammer Wt. 140 lbs. Hole Diameter in. Foreman James Burrowbridge  
Surf. Elev. ± ft. Hammer Drop 30 in. Rock Core Diameter Inspector FY  
Date Started 5/7/2020 Pipe Size 2 in. Boring Method HSA-SPT Date Completed 5/7/2020

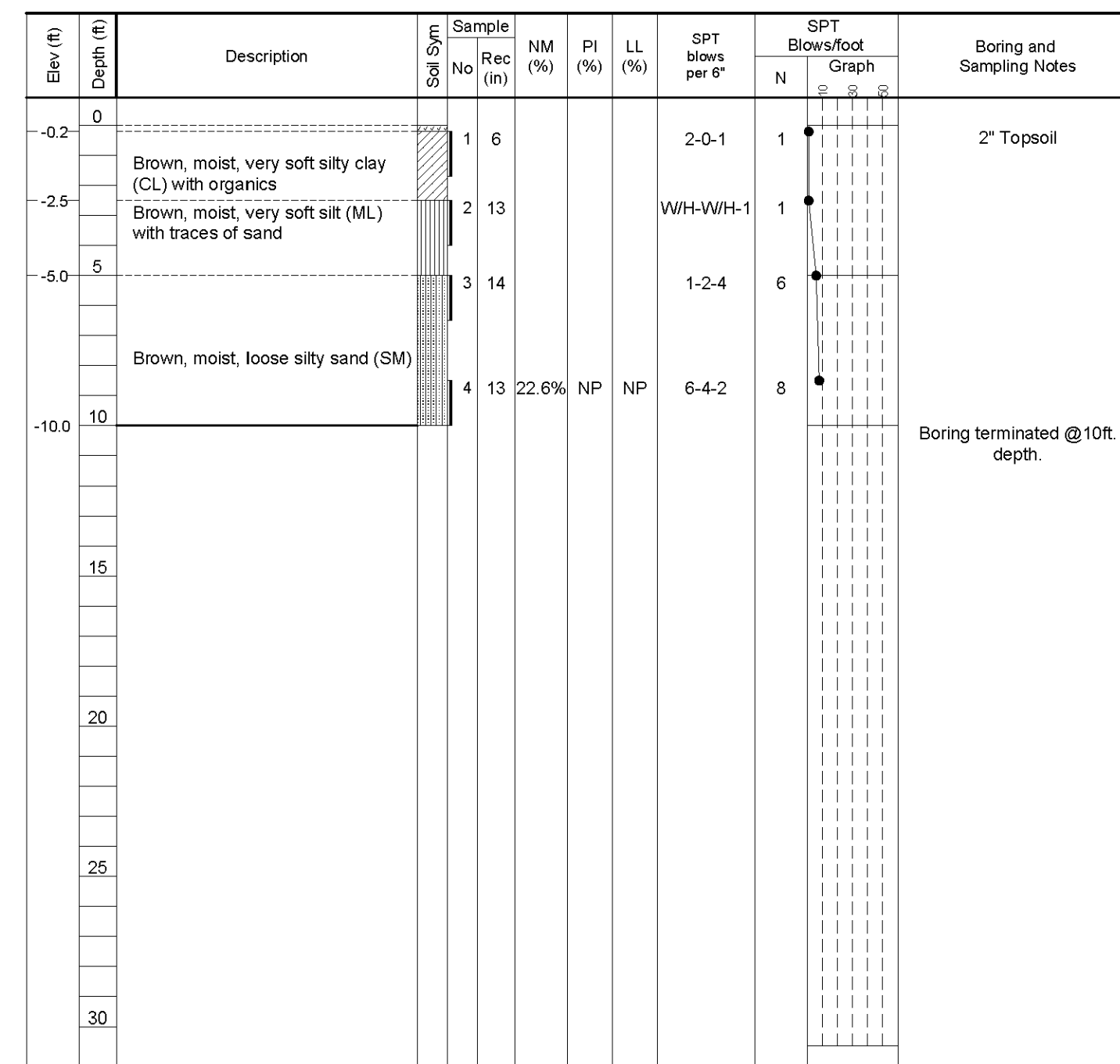


<b>SAMPLER TYPE</b> Driven Split Spoon unless otherwise noted PT - Pressed Shelby Tube CA - Continuous Flight Auger RC - Rock Core	<b>SAMPLE CONDITIONS</b> D - Disintegrated I - Intact U - Undisturbed L - Lost	<b>GROUND WATER DEPTH</b> At Completion After 24 Hrs. After Hrs.	<b>CAVE IN DEPTH</b> ft. 8.5 ft. ft.	<b>BORING METHOD</b> HSA - Hollow Stem Augers CFA - Continuous Flight Augers DC - Driving Casing MD - Mud Drilling
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STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS.

**HILLIS - CARNES ENGINEERING ASSOCIATES, INC.**  
**RECORD OF SOIL EXPLORATION**

Project Name: Marcey Road Park Boring No. B2  
Location: 2722 Marcey Rd, Arlington, VA 22207 Job # C20043  
Datum: OGL Hammer Wt. 140 lbs. Hole Diameter in. Foreman James Burrowbridge  
Surf. Elev. ± ft. Hammer Drop 30 in. Rock Core Diameter Inspector FY  
Date Started 5/7/2020 Pipe Size 2 in. Boring Method HSA-SPT Date Completed 5/7/2020

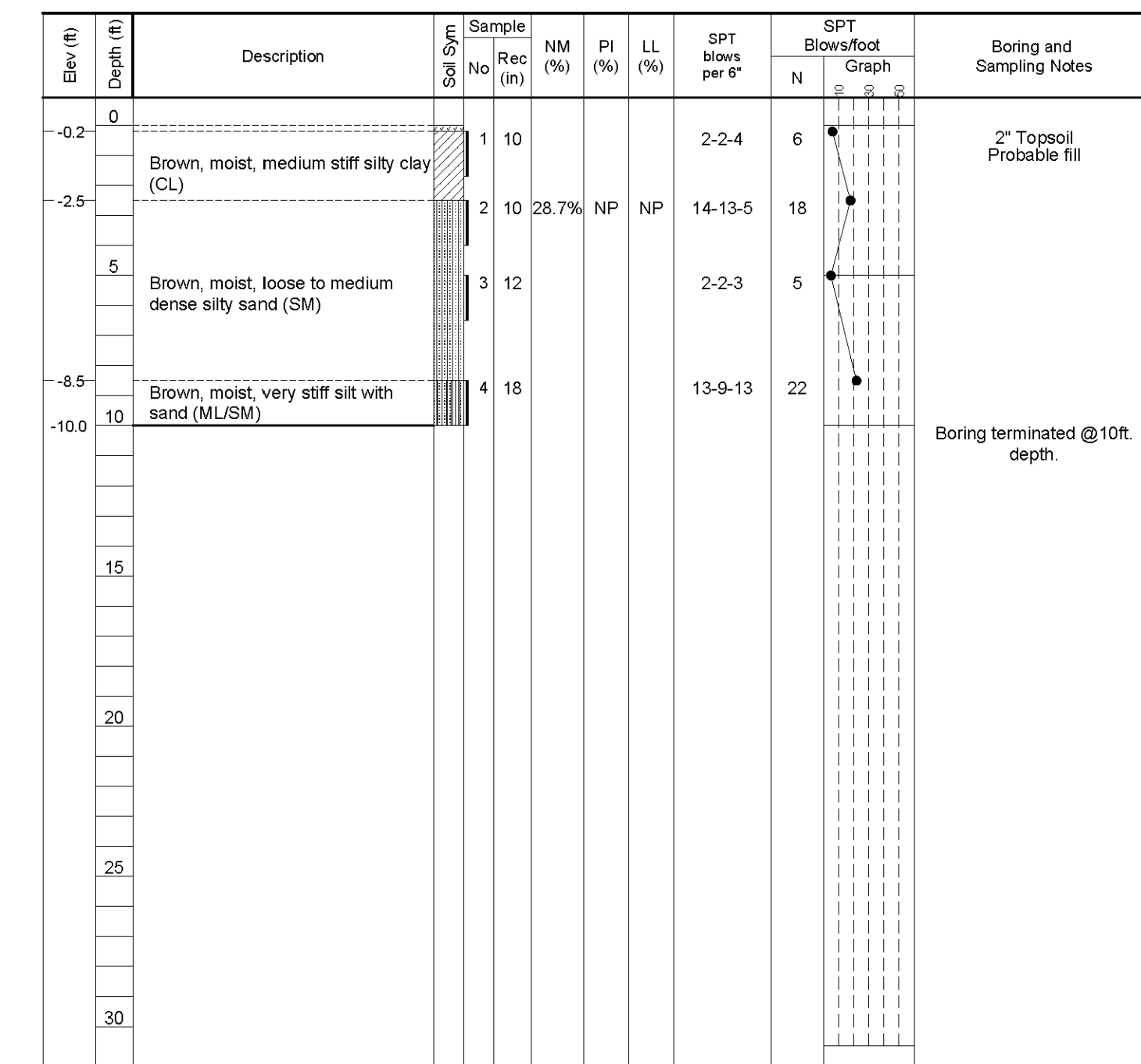


<b>SAMPLER TYPE</b> Driven Split Spoon unless otherwise noted PT - Pressed Shelby Tube CA - Continuous Flight Auger RC - Rock Core	<b>SAMPLE CONDITIONS</b> D - Disintegrated I - Intact U - Undisturbed L - Lost	<b>GROUND WATER DEPTH</b> At Completion After 24 Hrs. After Hrs.	<b>CAVE IN DEPTH</b> ft. 9 ft. ft.	<b>BORING METHOD</b> HSA - Hollow Stem Augers CFA - Continuous Flight Augers DC - Driving Casing MD - Mud Drilling
--	--	---	---	--

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS.

**HILLIS - CARNES ENGINEERING ASSOCIATES, INC.**  
**RECORD OF SOIL EXPLORATION**

Project Name: Marcey Road Park Boring No. B3  
Location: 2722 Marcey Rd, Arlington, VA 22207 Job # C20043  
Datum: OGL Hammer Wt. 140 lbs. Hole Diameter in. Foreman James Burrowbridge  
Surf. Elev. ± ft. Hammer Drop 30 in. Rock Core Diameter Inspector FY  
Date Started 5/7/2020 Pipe Size 2 in. Boring Method HSA-SPT Date Completed 5/7/2020



<b>SAMPLER TYPE</b> Driven Split Spoon unless otherwise noted PT - Pressed Shelby Tube CA - Continuous Flight Auger RC - Rock Core	<b>SAMPLE CONDITIONS</b> D - Disintegrated I - Intact U - Undisturbed L - Lost	<b>GROUND WATER DEPTH</b> At Completion After 24 Hrs. After Hrs.	<b>CAVE IN DEPTH</b> ft. 9 ft. ft.	<b>BORING METHOD</b> HSA - Hollow Stem Augers CFA - Continuous Flight Augers DC - Driving Casing MD - Mud Drilling
--	--	---	---	--

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS.



DEPARTMENT OF PARKS AND RECREATION

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**SOIL BORING LOGS**

100% Construction Drawings

Approval Date

Design Manager

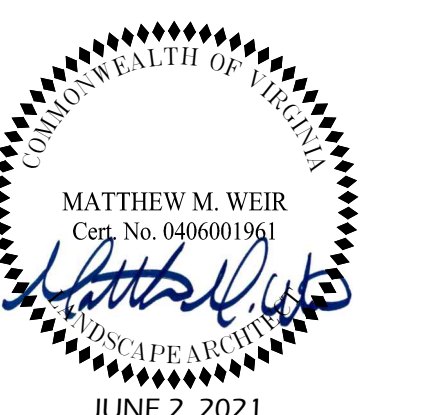
Revisions Date

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

Filename: c-23-150396024.dwg  
Plotted: 2021-06-02

Scale: 1" = 25'  
Date: JUNE 2, 2021

Seal



Sheet

**C-24**

**POLLUTION PREVENTION NOTES**

- ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 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 4.0 CFR 35.2005(20)); 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 MS4 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.

**2.0 Authorized Non-Stormwater Discharges**

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncollected foundation or footing drains	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Uncollected excavation dewatering	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Landscape irrigation	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Others (describe)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**5.0 Potential Sources of Pollution & Pollution Prevention Practices**

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants										Pollution Prevention Practice	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals			
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X									X	(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X				X				X		(2)	
Concrete washout and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X					X		(3)	
Structure construction, stucco, painting, and cleaning	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			X	X					X	X	(4)	
Dewatering operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X							X		(5)	
Material delivery and storage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X	X	X	X	X	(6)	
Material use during building process	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X	X			X	X	X	X	X	(7)	
Solid waste disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									X	X	(8)	
Sanitary waste	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X		X				X				(9)	
Landscaping operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X			X			X	X		(10)	
Others (describe)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(11)	

**Pollution Prevention Practices:**

- Clearing, grading, excavating and un-stabilized areas** – Utilize erosion and sediment controls to prevent sediment laden or turbid runoff from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities.
- Paving operations** – Cover storm drain inlets during paving operations and utilize pollution prevention materials such as drip pans and absorbent/dry for all paving machines to limit leaks and spills of paving materials and fluids.
- Concrete 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. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- Structure construction, stucco, painting and cleaning** – Enclose, cover or berm building material storage areas if susceptible to contaminated stormwater runoff. Conduct painting operations consistent with local air quality and OSHA regulations. Mix paint indoors, in a containment area or in a flat un-paved area. Prevent the discharge of soaps, solvents, detergents and wash water from construction materials, including the clean-up of stucco paint, form release oils and curing compounds.
- Dewatering operations** – Construction site dewatering from building footings or other sources may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.
- Material delivery and storage** – Designate areas of the construction site for material delivery and storage. Place near construction entrances, away from waterways, and avoid transport near drainage paths or waterways.
- Material use during building process** – Use materials only where and when needed to complete the construction activity. Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability and mixing of chemicals.
- Solid waste 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. Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible. Schedule waste collection to prevent the containers from overflowing.
- Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities. Locate sanitary facilities in a convenient location away from waterways.
- Landscaping operations** – Maintain as much existing vegetation as practicable. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Apply nutrients in accordance with manufacturer's recommendations and not during rainfall events.
- Others** – If applicable, describe your Pollution Prevention Practice.

**7.0 Spill Prevention & Response**

Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

- 1<sup>st</sup> Priority: Protect all people
- 2<sup>nd</sup> Priority: Protect equipment and property
- 3<sup>rd</sup> Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. **LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.**
- Make sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from entering drains (use absorbent or other material as necessary).
- Stop spill from spreading (use absorbent or other material).
- If spilled material has entered a storm sewer, contact locality's storm water department.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

**Emergency Contacts:**

<b>Normal Working Hours</b>	
DEQ Northern Regional Office	703-583-3800
<b>Nights, Holidays &amp; Weekends</b>	
VA Dept. of Emergency Management 24 Hour Reporting Service	804-674-2400
<b>Local Contacts</b>	
Arlington County Fire & Police	703-568-2222
DES Water, Sewer, Streets 24-Hour Emergency	703-228-8555
Washington Gas Emergency	703-750-1400

**Appendix C. Water Quality Impact Assessment Data Sheet**

Project Address 2722 MARCEY ROAD	Date 10/23/2020	
Applicant Name/Affiliation: AARON WOHLER/DPR	Applicant Contact Information (phone and email): 703-228-7928; AWOHLER@ARLINGTONVA.US	
Owner/Client Name: DEPARTMENT OF PARKS AND RECREATION	Owner/Client Contact Information (phone and email): 703-228-7928; AWOHLER@ARLINGTONVA.US	
<b>Section 1: Type of activity proposed</b>		
Activity type (check all that apply): <input type="checkbox"/> New construction (residential, commercial, public, etc.) <input type="checkbox"/> Alteration of non-residential structure <input type="checkbox"/> Residential addition <input type="checkbox"/> Detached residential structure	<input checked="" type="checkbox"/> Deck, patio, or retaining wall <input checked="" type="checkbox"/> Landscaping (includes tree removal) <input checked="" type="checkbox"/> Utility work GRADING, STORM DRAIN CONNECTION AND <input type="checkbox"/> Fence <input checked="" type="checkbox"/> Other (please describe): REFORESTATION.	
<b>Section 2: Key details of the proposed activity</b>		
Complete all that apply	Explanation	
Total area of disturbance on parcel (sf)	56,871 SF Includes building footprint plus a 10 foot buffer. Also includes all soil disturbance, ingress/egress areas, stockpiling areas, etc.	
Area of disturbance within RPA (sf)	5,538 SF Includes removal of trees ≥ 3" in diameter	
Area of disturbance on slopes greater than or equal to 15 percent located adjacent to landward RPA boundary (sf)	0 SF Does not apply to RPA parcels along Chain Bridge Road (15 percent and greater slopes are included as part of RPA).	
Complete all fields	Existing condition Proposed condition Explanation	
RPA encroachment (ft)	Left third of parcel or site: 129 128 Middle third of parcel or site: 138 124 Right third of parcel or site: 174 160	The distance (in feet) from the existing or proposed structure to the designated RPA feature (edge of stream or open channel, wetland, etc.). Encroachments of zero (0) indicate the project will impact the stream or other RPA feature.
Total development footprint in RPA (sf)	0 0	The existing footprint includes the area of any existing structures, patios, decks, walkways, etc. Proposed footprint is the anticipated post-project area of all structures, additions, decks, walkways, regraded areas behind a retaining wall, etc.
Impervious footprint in RPA (sf)	0 0	Total area of impervious surfaces within the RPA (rooftops, pavement, etc.)
(OVER)		
<b>STAFF USE ONLY</b>		
Building/demolition/LDA/Fence permit number(s):		
Major WOIA required? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date WOIA/Exception request information complete:		
Date Chesapeake Bay Preservation Ordinance and E/S ordinance (if applicable) approvals issued in Permits Plus:		

**Section 3: Plan and Narrative**

Provide a plan showing the location of the proposed activity, along with the RPA boundary. Briefly describe the proposed project, including any potential water quality impacts and mitigation measures/proposed. The narrative must address three impact categories: 1. Tree/vegetation impacts, 2. Stormwater and runoff, 3. Erosion and sediment control. Please refer to the WOIA plan/narrative checklist for additional information.

- REFER TO SHEETS LF-01, LF-02, LF-03 AND LF-04 FOR TREE INVENTORY AND TREE PRESERVATION PLANS.
- REFER TO SHEET C-20 FOR STORMWATER MANAGEMENT PLAN AND SHEET C-21 FOR RUNOFF INFORMATION.
- REFER TO SHEETS C-05, C-06, C-07 AND C-08 FOR EROSION AND SEDIMENT CONTROL PLAN, NARRATIVE, NOTES AND DETAILS.

**PROJECT NARRATIVE:**

PROJECT CONSISTS OF PARK AND ATHLETIC IMPROVEMENTS LOCATED AT 2722 MARCEY ROAD. IMPROVEMENTS INCLUDE NEW HARDSCAPE, FENCING, VEGETATION, DRINKING FOUNTAIN, A LEVEL I BIOPREVENTION FACILITY, REFORESTATION AND ALL ASSOCIATED UTILITIES. REFER TO SHEET REF-01 FOR REFORESTATION PLAN INFORMATION. NO TREES ARE TO BE REMOVED WITHIN THE RESOURCE PROTECTION AREA (RPA) AND NO GRADING IS PROPOSED AROUND THEM, THEREFORE, THERE WILL BE NO IMPACTS TO TREES OR CRITICAL ROOT ZONES (CRZs) WITHIN THE RPA. CRZ PROTECTION MEASURES FOR TREES OUTSIDE OF THE RPA LIMITS INCLUDE LIMITS OF DISTURBANCE, FILTER LOGS AND TREE PROTECTION FENCE SET IN A MANNER TO LIMIT DISTURBANCE AND STANDARD TREE PROTECTION NOTES HAVE BEEN INCLUDED ON THE TREE PRESERVATION PLAN TO FURTHER HIGHLIGHT THE IMPORTANCE OF PROTECTING THE EXISTING TREES. SITE RESTORATION INCLUDES INVASIVE/NON-NATIVE UNDERSTORY REMOVAL AND PLANTING OF NEW TREES AS SHOWN ON SHEET LP-01. STORMWATER RUNOFF FROM THE SITE IS IN THE FORM OF SHEET FLOW TO THE NORTHWEST INTO DONALDSON RUN. RUNOFF COLLECTED AND TREATED BY THE PROPOSED BIOPREVENTION FACILITY WILL SHEET FLOW TO THE NORTHWEST. STORMWATER QUALITY AND QUANTITY CONTROL TREATMENT REQUIREMENTS ARE MET BY THE ADDITION OF FORESTED AREA AND THE INSTALLATION OF THE BIOPREVENTION FACILITY. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN PROVIDED FOR BOTH THE DEMOLITION AND PROPOSED PHASES OF WORK.

**Additional Water Quality Impact Assessment Information**

The information supplied on this form satisfies the minimum requirements for a Minor Water Quality Impact Assessment. For projects that disturb over 2500 square feet, elements of a Major Water Quality Impact Assessment may also be required, depending on the nature and extent of the proposed RPA encroachment, as outlined in Section 61-12 of the ordinance.

**Appendix D. Exception Request Form**

Applicant: AARON WOHLER/DPR	Project address: 2722 MARCEY ROAD, ARLINGTON, VA 22207
<b>Section 1: Brief description of exception request</b>	
N/A	
<b>Section 2: Parcel, structure, and ownership information</b>	
Date parcel ownership began: JANUARY 1900	Date(s) of construction of any prior work by <u>parent</u> owner (alternatives, additions, decks, patios, etc.) – list individually
Date existing principal structure built: N/A	Date Type of prior work
Will existing principal structure remain intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1. 2. 3. 4.
<b>STAFF USE ONLY</b>	
<input type="checkbox"/> Allowable development in RPA (§ 61-7 A)	<input type="checkbox"/> New development in the RPA, redevelopment that increases impervious area in the RPA or encroaches further into the RPA, or any other proposed disturbance of any RPA component (exception request required)
<input type="checkbox"/> Allowable modification in RPA (§ 61-7 B)	<input type="checkbox"/> Exempted activity in RPA (§ 61-15)
<input type="checkbox"/> Allowable encroachment in RPA (§ 61-7 C)	<input type="checkbox"/> Proposed development in RMA on 15 percent slopes adjacent to RPA
<input type="checkbox"/> Expansion of nonconforming structure or use in RPA (§ 61-14) (exception request required)	<input type="checkbox"/> Other RMA activity
CBORC hearing required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date public notification sent certified mail:
Hearing date:	CBORC decision: <input type="checkbox"/> Approved <input type="checkbox"/> Not approved
Date of final approval letter:	



DEPARTMENT OF PARKS AND RECREATION

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**WATER QUALITY IMPACT ASSESSMENT AND POLLUTION PREVENTION PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

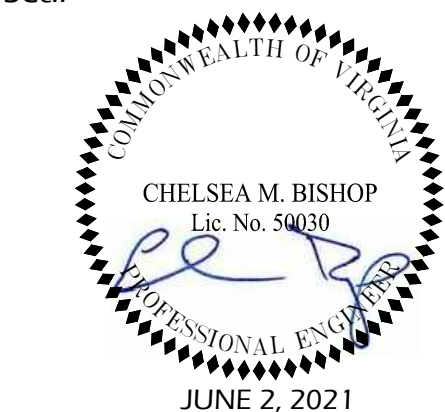
Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

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Plotted: 2021-06-02

Scale: 1" = 25'  
Date: JUNE 2, 2021

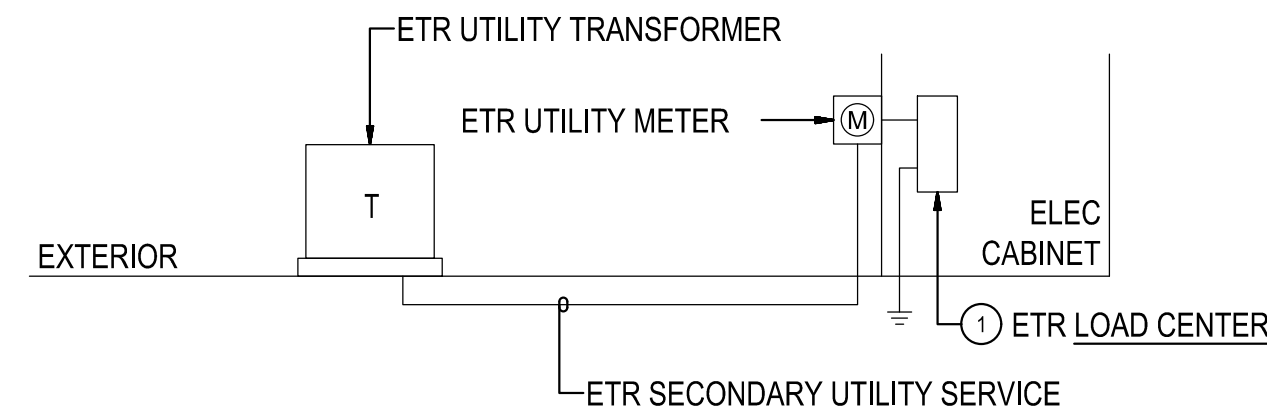
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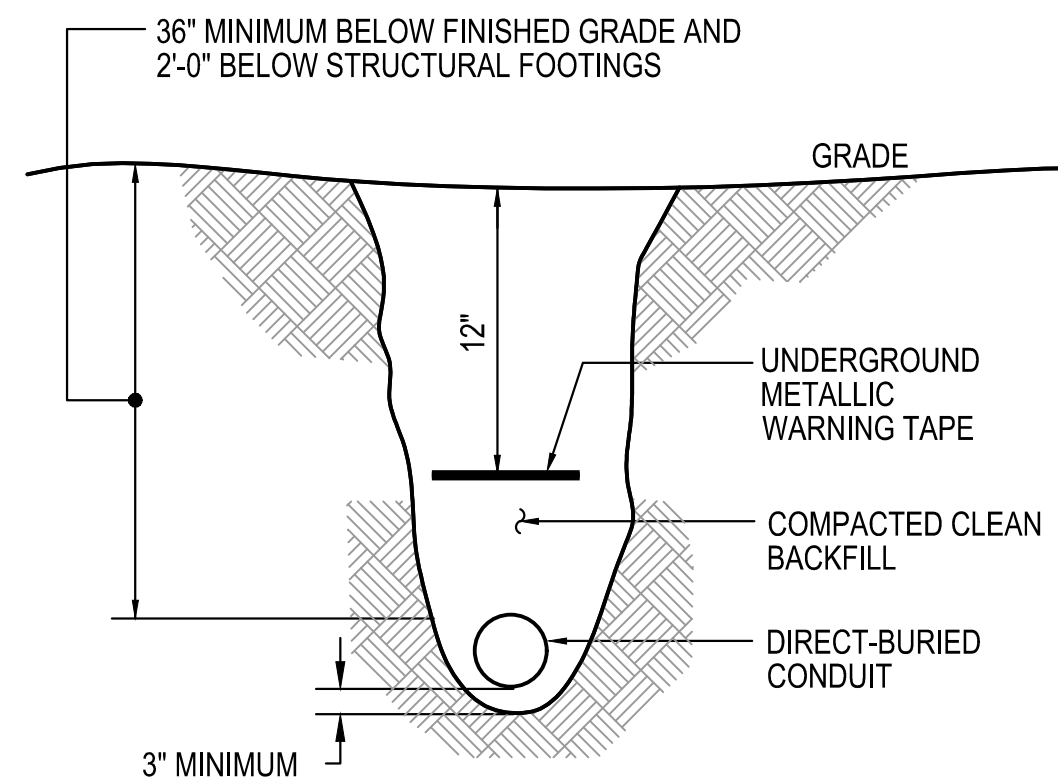
Sheet

**C-25**

SPECIFIC NOTES (POWER RISER DIAGRAM):  
 ① EXISTING TO REMAIN LOAD CENTER: 200A MCB-120/240V-1Ø.  
 MANUFACTURED BY SQUARE D, TYPE QO.



1  
E0.1  
**RISER DIAGRAM**  
POWER DISTRIBUTION  
NOT TO SCALE



2  
E0.1  
**DETAIL**  
DIRECT-BURIED CONDUIT  
NOT TO SCALE

**ELECTRICAL SYMBOLS AND ABBREVIATIONS**

GENERAL	WIRING
<p>A. MOUNTING HEIGHTS ARE TO TOP OF WIRING DEVICES UNLESS OTHERWISE INDICATED.</p> <p>DETAIL OR PLAN NUMBER</p> <p>DRAWING NUMBER WHERE DETAIL OR PLAN IS LOCATED</p>	<p>---#--- UNDERGROUND DIRECTLY BURIED ELECTRICAL CONDUIT, SIZE AS INDICATED.</p> <p>---#--- HOMERUN TO PANELBOARD, NUMBER OR ARROWS INDICATES NUMBER OF CIRCUITS UNLESS OTHERWISE NOTED. NUMBER OF HASH MARKS INDICATES NUMBER OF PHASE AND NEUTRAL CONDUCTORS PLUS GROUND UNLESS OTHERWISE NOTED. WHERE NO HASH MARKS APPEAR, TWO (2) CONDUCTORS PLUS GROUND ARE IMPLIED. PROVIDE GROUND CONDUCTOR WITH ALL FEEDERS AND BRANCH CIRCUITS. REFER TO PANEL SCHEDULES FOR CONDUCTOR QUANTITY, CONDUCTOR SIZE, AND CONDUIT SIZE UNLESS OTHERWISE NOTED.</p> <p>---E--- GROUNDING TERMINATION POINT. PROVIDE EQUIPMENT GROUNDING CONDUCTORS AND GROUNDING ELECTRODE CONDUCTORS IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS.</p>
ABBREVIATIONS	DEMOLITION
<p>A, AMP AMPERE            AG ABOVE GRADE            AIC AMPERES INTERRUPTING CAPACITY            AWG AMERICAN WIRE GAUGE            C CONDUIT            CB CIRCUIT BREAKER            ETR EXISTING TO REMAIN            G, GND GROUND, GFCI            GFCI GROUND FAULT CIRCUIT INTERRUPTER            H "HOT" ENERGIZED CONDUCTOR            JB JUNCTION BOX            KVA KILOVOLT-AMPERES            KW KILOWATT            MAX MAXIMUM            MCB MAIN CIRCUIT BREAKER            MIN MINIMUM            N NEUTRAL            NEC NATIONAL ELECTRICAL CODE            NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION            P POLE OR POLES            PNL PANEL            PVC POLYVINYL CHLORIDE            REC RECEPTACLE            TYP TYPICAL            UNO UNLESS OTHERWISE NOTED            V VOLT, VOLTS            W WATTS/WIRE, WIRES            WP WEATHERPROOF            XFMR TRANSFORMER            Ø PHASE            &amp; AND</p>	<p>⊖ DISCONNECT AND REMOVE EXISTING LIGHT POLE FIXTURE.</p>
	EXISTING TO REMAIN
	<p>□ EXISTING TO REMAIN ELECTRIC PANELBOARD (120/240V), SURFACE MOUNTED.</p> <p>---E--- EXISTING UNDERGROUND DIRECTLY BURIED ELECTRICAL CONDUIT</p>
	POWER
	<p>⊕ 2P-3W-20A-125V DUPLEX GROUNDING-TYPE CONVENIENCE RECEPTACLE, NEMA CONFIGURATION 5-20R WITH WEATHER-RESISTANT (WR) RECEPTACLE CONSTRUCTION, GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FUNCTION, AND WEATHER-PROTECTIVE (WP) IN-USE COVER, RECESSED MOUNTED 18" ABOVE GRADE TO TOP OF BOX, UNLESS OTHERWISE NOTED.</p> <p>⊕ ELECTRICAL CONNECTION TO LIGHT POLE FIXTURE (PROVIDED BY OTHERS)</p>

**EXISTING WIRING LOAD CENTER SCHEDULE "A" (MODIFIED)**

120 / 240 VOLTS		1 PHASE 3 WIRE		200 AMP BUS			SURFACE MOUNTED			
CIR-POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER POLE/AMP	AØ	BØ	CØ	CIR-POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER POLE/AMP
1 1	LTG - TENNIS T1	<b>NOTE 1</b>	2 30	1.5	0.5		2 2	REC (ABOVE PANEL)	ETR	1 20
- 3	LTG - TENNIS T2	<b>NOTE 1</b>	2 30	1.5	0.7		4 4	LTG - BASKETBALL B1		2 30
5 5	LTG - TENNIS T2	<b>NOTE 1</b>	2 30	1.5	0.7		8 8	LTG - BASKETBALL B2	<b>NOTE 1</b>	2 30
- 7	LTG - TENNIS T3	<b>NOTE 1</b>	2 30	1.5	0.7		- 10		<b>NOTE 1</b>	2 30
- 11	LTG - TENNIS T4	<b>NOTE 1</b>	2 30	1.5	0.8		12 12	REC - GAZEBO	<b>NOTE 1</b>	1 20
13 13	LTG - TENNIS T4	<b>NOTE 1</b>	2 30	1.5	0.8		14 14	REC - GAZEBO	<b>NOTE 1</b>	1 20
- 15					1.5	-	16 16	SPACE & PROVISIONS	--	- -
17 17	LTG - CONTROL	#12-3/4"C	1 20			0.1	18 18	SPACE & PROVISIONS	--	- -
19 19	SPACE & PROVISIONS	--	- -				20 20	SPACE & PROVISIONS	--	- -
21 21	SPACE & PROVISIONS	--	- -				22 22	SPACE & PROVISIONS	--	- -
23 23	SPACE & PROVISIONS	--	- -				24 24	SPACE & PROVISIONS	--	- -
25 25	SPACE & PROVISIONS	--	- -				26 26	SPACE & PROVISIONS	--	- -
27 27	SPACE & PROVISIONS	--	- -				28 28	SPACE & PROVISIONS	--	- -
29 29	SPACE & PROVISIONS	--	- -				30 30	SPACE & PROVISIONS	--	- -

CONNECTED LOAD = 17.0 KVA  
 DEMAND LOAD = 17.0 KVA  
 MIN AIC RATING = 10,000 AMPS SYMMETRICAL

MAIN BREAKER 200 AMPS  
 LOCATION ELEC SERVICE CABINET

GENERAL NOTES:  
 A) ITEMS SHOWN IN *ITALICS* ARE EXISTING TO REMAIN.  
 B) ITEMS SHOWN IN **BOLD** ARE NEW.

NOTES:  
 1) CONDUIT AND WIRING IS EXISTING TO REMAIN. PROVIDE NEW WIRING TO MATCH EXISTING AS REQUIRED FOR COMPLETE INSTALLATION.



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

20-###-ITB

Project Name and Location

**Marcey Road Park Improvements (By Right)**

(County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**ELECTRICAL SYMBOLS LIST, DETAILS, & DIAGRAMS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

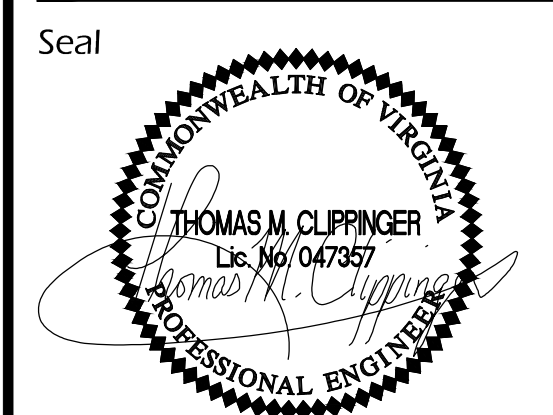
Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: MLG  
 Drawn: MLG  
 Checked: BMM

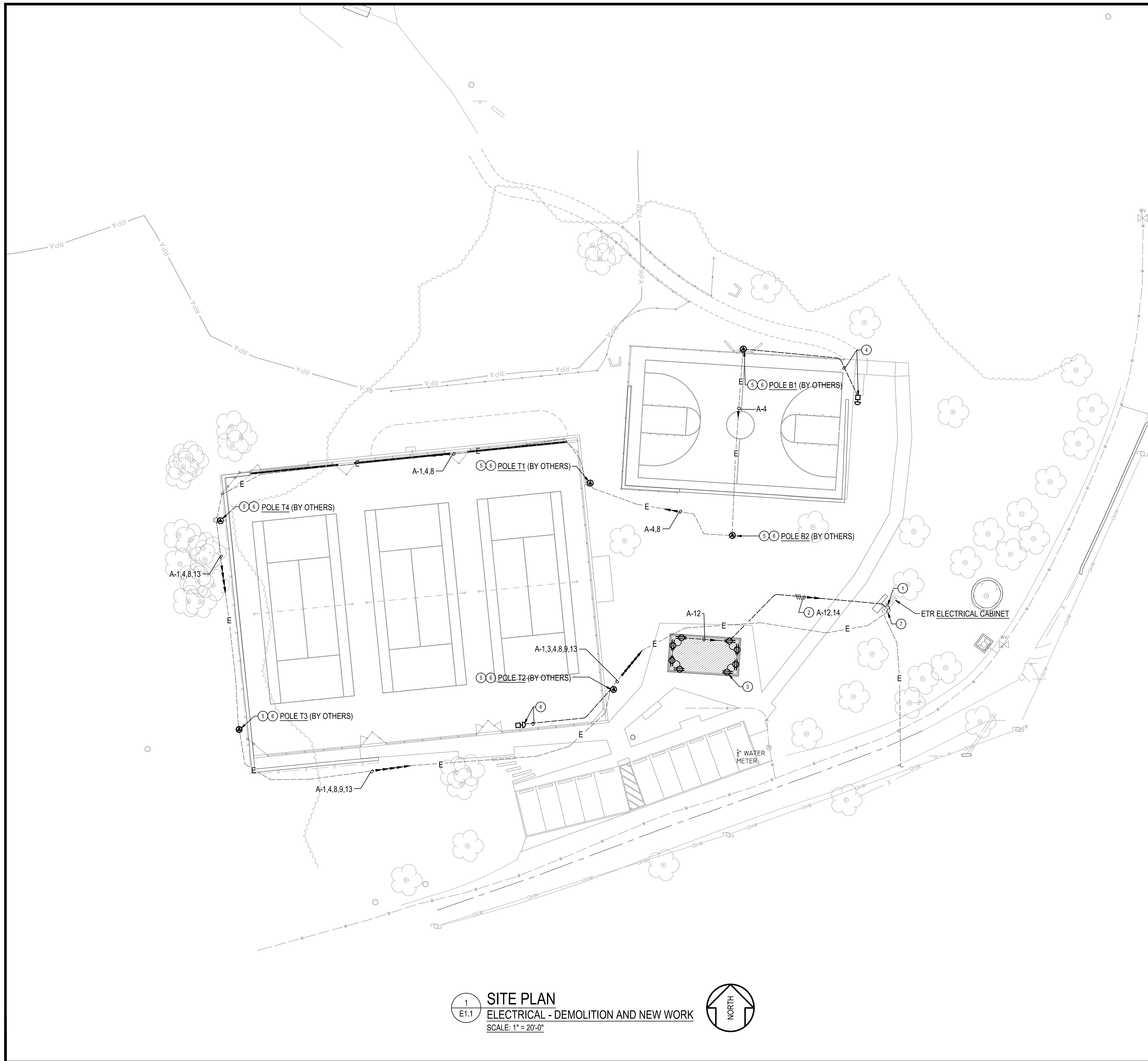
Filename: e0.1.dwg  
 Plotted: 2021-04-26

Scale: AS INDICATED  
 Date: APRIL 26, 2021



Sheet  
**E0.1**





**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE OWNER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. WHERE EQUIPMENT IS NOTED AS "DISCONNECT" OR "REMOVE", REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE. UNDERGROUND CONDUIT THAT DOES NOT IMPACT NEW WORK MAY BE ABANDONED IN PLACE. UNDERGROUND CONDUIT THAT DOES IMPACT NEW WORK SHALL BE DEMOLISHED.
- C. FOR CONDUIT INSTALLED UNDER SIDEWALKS AND UNPAVED SURFACES: PROVIDE DIRECTLY-BURIED CONDUIT.
- D. REFER TO CIVIL UTILITY PLAN C-12 FOR SPECIFIC CONDUIT ROUTING. REFER TO TREE PRESERVATION PLANS AND DETAILS (LF-01 THROUGH LF-04) FOR TREE PROTECTION MEASURE REQUIRED DURING DEMOLITION AND CONSTRUCTION.

**SPECIFIC NOTES:**

- 1 EXISTING TO REMAIN LOAD CENTER "A". 200A MCB-120/240V-10; MANUFACTURED BY SQUARE D, TYPE QO.
- 2 PROVIDE TWO BRANCH CIRCUITS CONSISTING OF (4#10+10G) IN 1" DIRECTLY BURIED CONDUIT.
- 3 MOUNT WIRING DEVICES TO COLUMNS. SEE LANDSCAPE ARCHITECTURE DETAILS FOR COLUMNS FOR ADDITIONAL INFORMATION. TYPICAL OF 8.
- 4 LIGHTING CONTROL PUSHBUTTON (FURNISHED BY LIGHTING FIXTURE MANUFACTURER, INSTALLED BY CONTRACTOR), PROVIDE 1" DIRECTLY BURIED CONDUIT AND WIRING AS REQUIRED BY LIGHTING FIXTURE MANUFACTURER FOR PUSHBUTTON CONTROL.
- 5 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE HEADS. LEAVE INTACT EXISTING CONDUIT, WIRING, POLE BASE, AND POLE FOR REUSE. NEW LIGHTING FIXTURE HEAD AND ACCESSORIES SHALL BE FURNISHED BY THE LIGHTING MANUFACTURER AND INSTALLED BY THE CONTRACTOR.
- 6 CONNECT NEW POLE MOUNTED LIGHTING FIXTURE TO EXISTING WIRING. PROVIDE ADDITIONAL WIRING, MATCHING EXISTING CONDUCTOR SIZE AND QUANTITY, AS NECESSARY FOR INSTALLATION
- 7 LIGHTING POLE FIXTURE CONTROL PANEL (FURNISHED BY LIGHTING FIXTURE MANUFACTURER, INSTALLED BY CONTRACTOR), PROVIDE 3#12 WIRE FROM EXISTING LOAD CENTER "A" TO LIGHTING POLE FIXTURE CONTROL PANEL. REUSE EXISTING RACEWAY.



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

**20-###-ITB**  
 Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

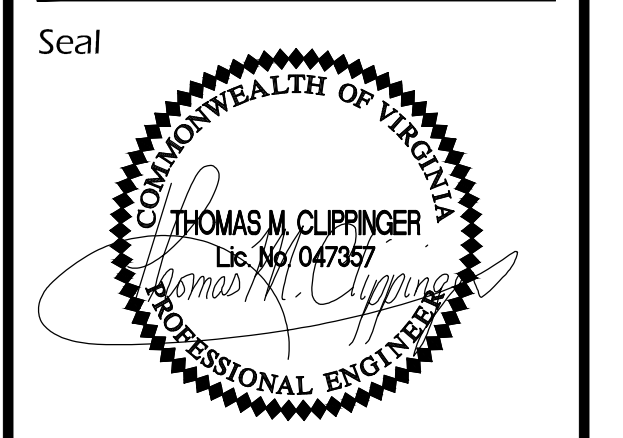
2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**ELECTRICAL SITE PLAN**

100% Construction Drawings

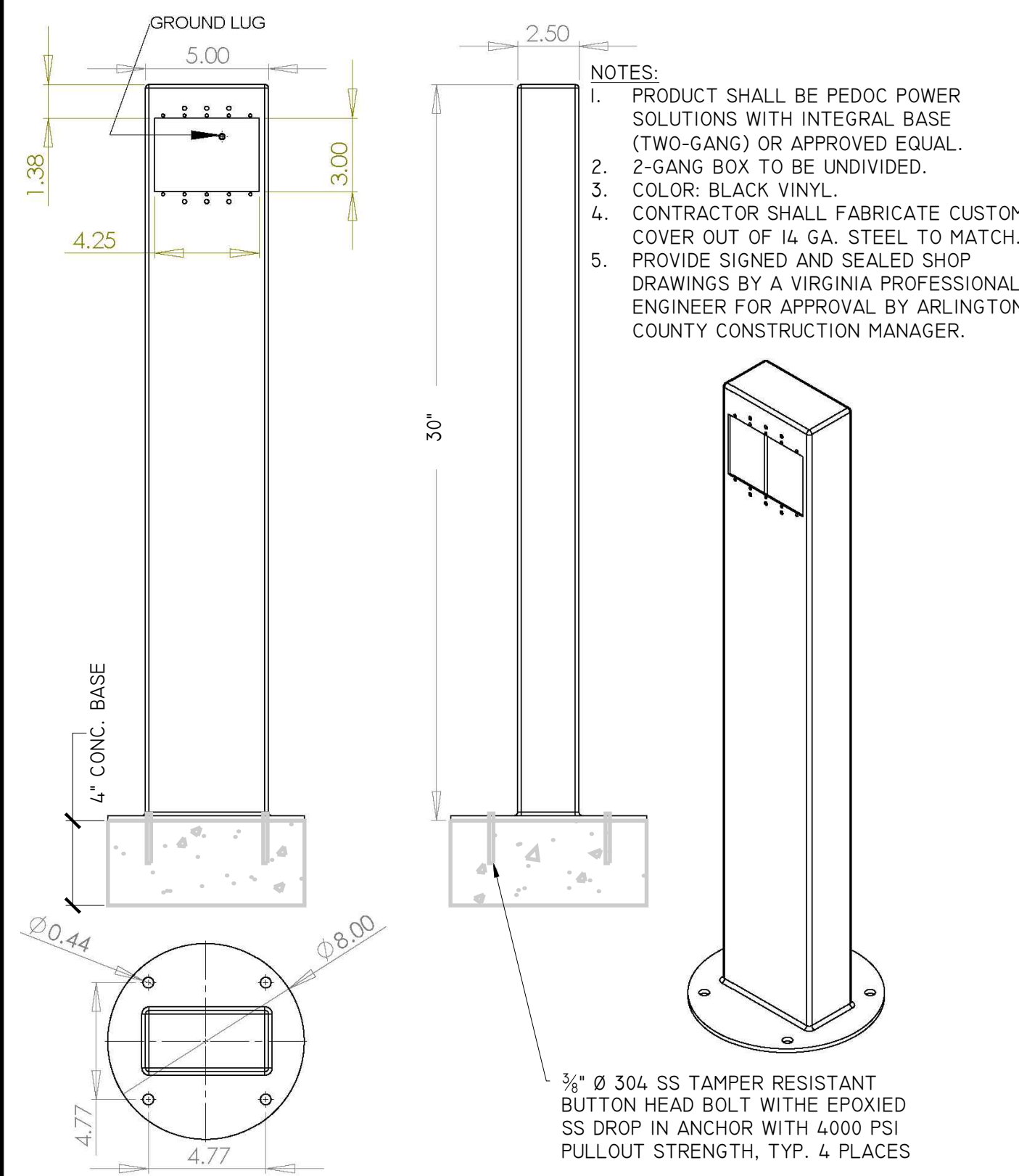
Approval	Date
Design Manager	
Revisions	Date

Designed: MLG  
 Drawn: MLG  
 Checked: BMM  
 Filename: e1.1.dwg  
 Plotted: 2021-04-26  
 Scale: AS INDICATED  
 Date: APRIL 26, 2021

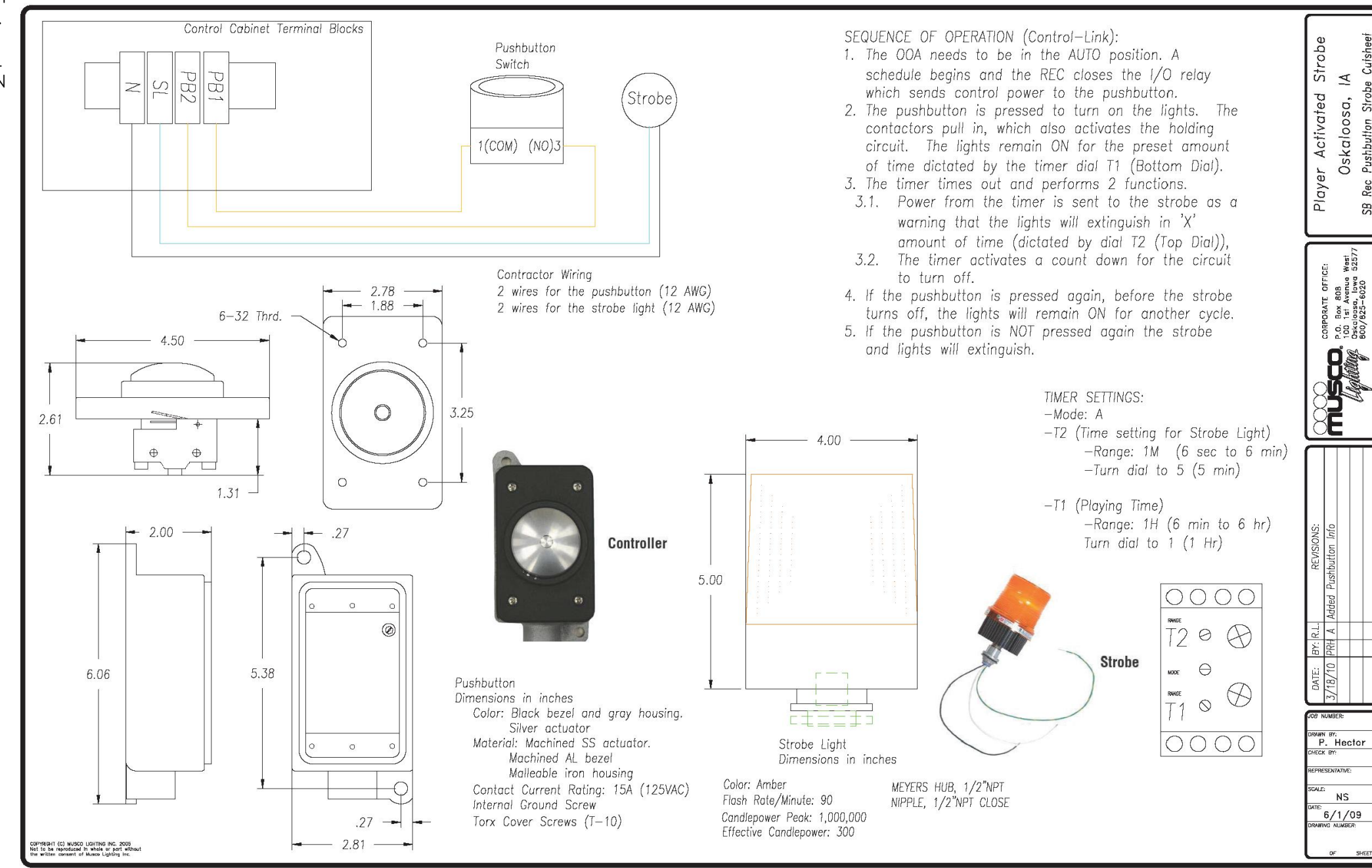


Sheet  
**E1.1**

1 SITE PLAN  
 E1.1 ELECTRICAL - DEMOLITION AND NEW WORK  
 SCALE: 1" = 20'-0"  
 NORTH



1 PEDOC TWO GANG INTEGRAL BASE 00-190



2 PUSH BUTTON 00-191



DEPARTMENT OF PARKS AND RECREATION  
Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
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21-DPR-ITB-646

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**ELECTRICAL DETAILS**

100% Construction Drawings

Approval	Date
Design Manager	
Revisions	Date

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB  
Filename: e-01-150396024\_electrical.dwg  
Plotted: 2021-06-02  
Scale: 1' = 25'  
Date: JUNE 2, 2021



Sheet  
**E5.0**

**Arlington County Marcey Road Park Tennis and Basketball**  
Arlington, VA

**Lighting System**

Pole ID	Pole Height	Qty	Fixture Qty	Luminaire Type	Load	Circuit
B1-B2	40'	2	2	TLC-LED-400	0.80 kW	B
T1-T4	50'	1	1	TLC-LED-900	0.89 kW	A
TOTALS		3	3	TLC-LED-900	0.89 kW	A

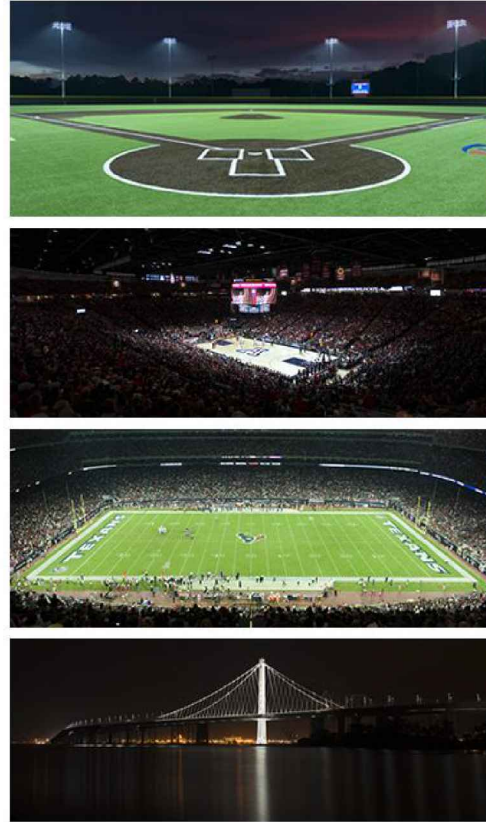
Circuit	Description	Load	Fixture Qty
A	Tennis 1-3	5.89 kW	8
B	Basketball	1.8 kW	4

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-400	LED 4000K - 70 CRI	80W	85,600	>120,000	>120,000	>120,000	4
TLC-LED-400	LED 4000K - 70 CRI	400W	48,500	>120,000	>120,000	>120,000	4
TLC-LED-900	LED 4000K - 70 CRI	890W	89,600	>120,000	>120,000	>120,000	4

**Light Level Summary**

Grid Name	Calculation Metric	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Fixture Qty
Basketball	Horizontal Illuminance	26.1	17.8	34.3	1.92	1.46	B	4
Blanket Grid	Horizontal	34.5	0	43.8	0.00	A,B	12	12
Tennis 1-3	Horizontal Illuminance	34.5	26.8	43.5	1.62	1.20	A	8

From Hometown to Professional

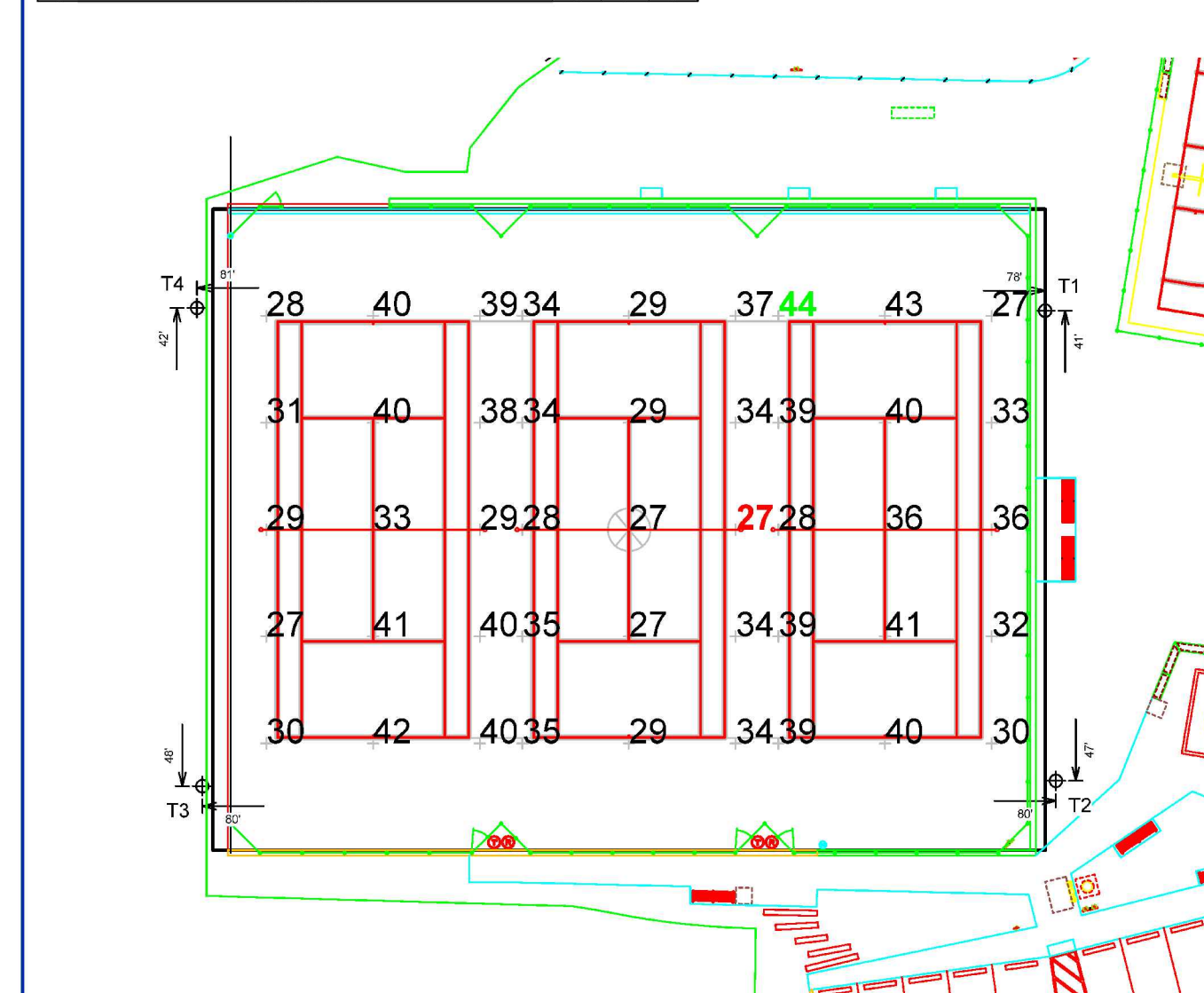


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**PROJECT SUMMARY**

QTY	LOCATION	SIZE	GRADE ELEVATION	HOISTING HEIGHT	LUMINAIRE TYPE	QTY	FEET	OTHER
2	B1-B2	40'	-	40'	TLC-LED-400	2	2	0
4	T1-T4	50'	-	50'	TLC-LED-900	1	1	0
TOTALS					TLC-LED-400	2	2	0
TOTALS					TLC-LED-900	1	1	0



**Arlington County Marcey Road Park Tennis and Basketball**  
Arlington, VA

**GRID SUMMARY**

Name: Tennis 1-3  
Site: 3 Court - 12' Spacing  
Spacing: 20.0' x 20.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 34.45  
Maximum: 43.5  
Minimum: 18.8  
Avg / Min: 1.29  
Guaranteed Max / Min: 1.62

UG (adjacent pts): 0.00  
CU: 0.96  
No. of Points: 45

LUMINAIRE INFORMATION  
Color / CRI: 4000K - 70 CRI  
Luminaire Output: 65,600 / 89,600 lumens  
No. of Luminaires: 8  
Total Load: 5.89 kW

Luminaire Type: L90 hrs L80 hrs L70 hrs  
TLC-LED-400 >120,000 >120,000 >120,000  
TLC-LED-900 >120,000 >120,000 >120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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**ILLUMINATION SUMMARY**

QTY	LOCATION	SIZE	GRADE ELEVATION	HOISTING HEIGHT	LUMINAIRE TYPE	QTY	FEET	OTHER
2	B1-B2	40'	-	40'	TLC-LED-400	2	2	0
4	T1-T4	50'	-	50'	TLC-LED-900	1	1	0
TOTALS					TLC-LED-400	2	2	0
TOTALS					TLC-LED-900	1	1	0



**Arlington County Marcey Road Park Tennis and Basketball**  
Arlington, VA

**GRID SUMMARY**

Name: Basketball  
Site: 84' x 50'  
Spacing: 10.0' x 10.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 26.07  
Maximum: 34.3  
Minimum: 17.8  
Avg / Min: 1.46  
Guaranteed Max / Min: 2.3

UG (adjacent pts): 1.71  
CU: 0.57  
No. of Points: 40

LUMINAIRE INFORMATION  
Color / CRI: 4000K - 70 CRI  
Luminaire Output: 46,500 lumens  
No. of Luminaires: 4  
Total Load: 1.6 kW

Luminaire Type: L90 hrs L80 hrs L70 hrs  
TLC-LED-400 >120,000 >120,000 >120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

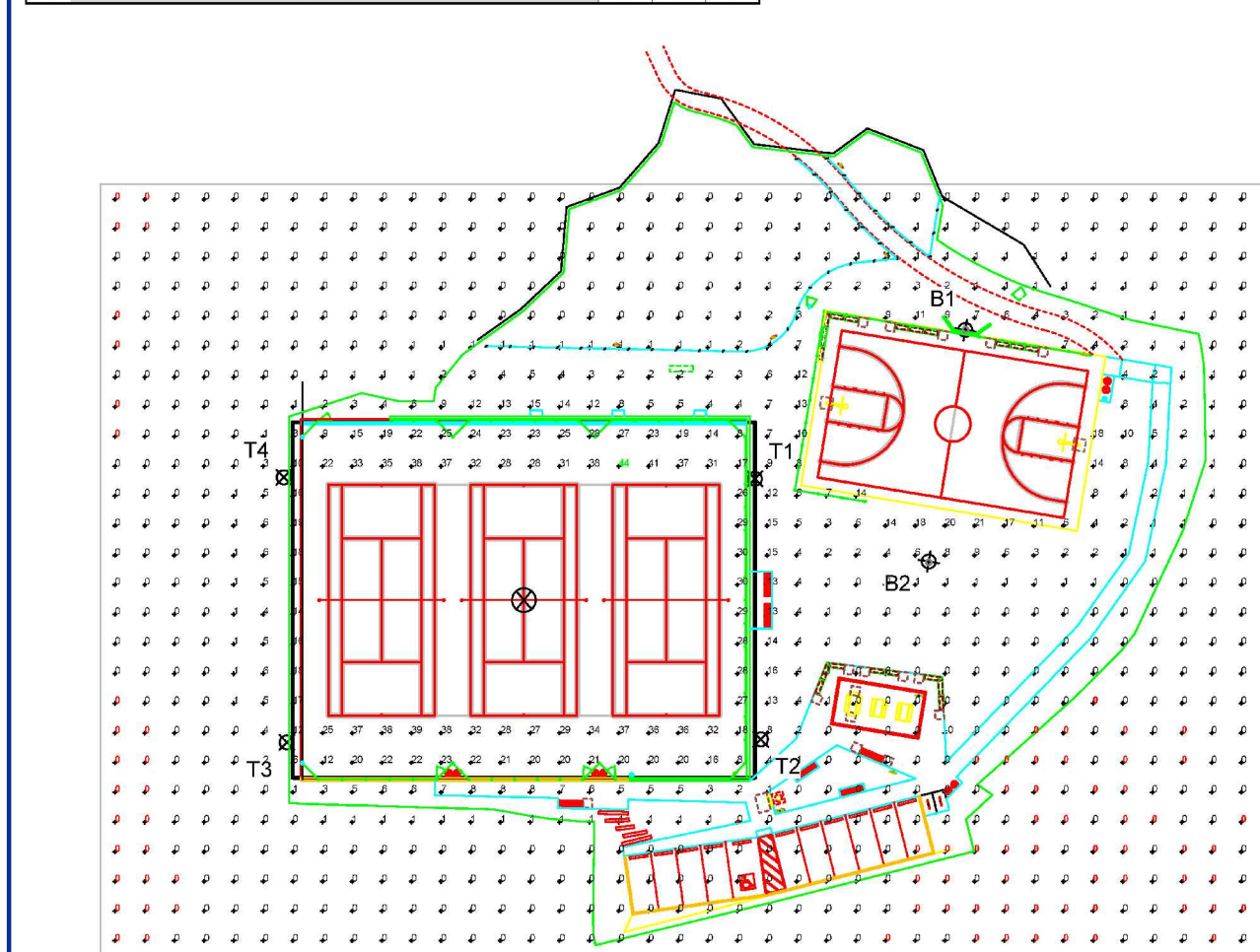


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**ILLUMINATION SUMMARY**

QTY	LOCATION	SIZE	GRADE ELEVATION	HOISTING HEIGHT	LUMINAIRE TYPE	QTY	FEET	OTHER
2	B1-B2	40'	-	40'	TLC-LED-400	2	2	0
4	T1-T4	50'	-	50'	TLC-LED-900	1	1	0
TOTALS					TLC-LED-400	2	2	0
TOTALS					TLC-LED-900	1	1	0



**Arlington County Marcey Road Park Tennis and Basketball**  
Arlington, VA

**GRID SUMMARY**

Name: Blanket Grid  
Site: 20.0' x 10.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 35.1  
Maximum: 43.8  
Minimum: 0.0  
Avg / Min: 0.0

UG (adjacent pts): 65.78  
CU: 0.38  
No. of Points: 847

LUMINAIRE INFORMATION  
Color / CRI: 4000K - 70 CRI  
Luminaire Output: 65,600 / 46,500 / 89,600 lumens  
No. of Luminaires: 22  
Total Load: 7.48 kW

Luminaire Type: L90 hrs L80 hrs L70 hrs  
TLC-LED-400 >120,000 >120,000 >120,000  
TLC-LED-400 >120,000 >120,000 >120,000  
TLC-LED-900 >120,000 >120,000 >120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



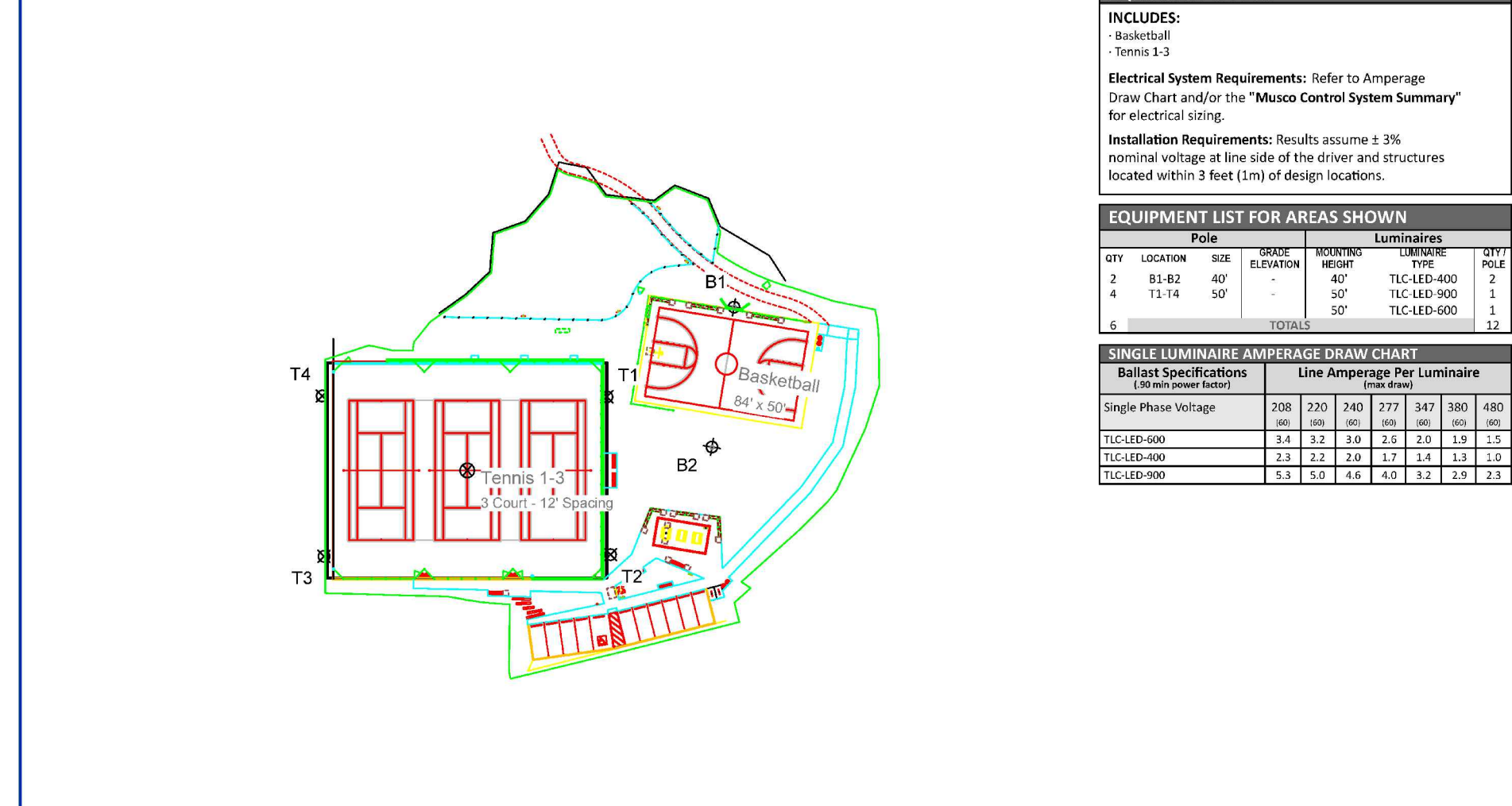
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**ILLUMINATION SUMMARY**

**Arlington County Marcey Road Park Tennis and Basketball**  
Arlington, VA

**EQUIPMENT LAYOUT**



**Arlington County Marcey Road Park Tennis and Basketball**  
Arlington, VA

**EQUIPMENT LAYOUT**

INCLUDES:  
Basketball  
Tennis 1-3

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

**EQUIPMENT LIST FOR AREAS SHOWN**

QTY	LOCATION	SIZE	GRADE ELEVATION	HOISTING HEIGHT	LUMINAIRE TYPE	QTY	FEET	OTHER
2	B1-B2	40'	-	40'	TLC-LED-400	2	2	0
4	T1-T4	50'	-	50'	TLC-LED-900	1	1	0
TOTALS					TLC-LED-400	2	2	0
TOTALS					TLC-LED-900	1	1	0

**SINGLE LUMINAIRE AMPERAGE DRAW CHART**

Ballast Specifications Line Amperage Per Luminaire (Line Voltage)

Single Phase Voltage	208	230	240	277	347	380	480
TLC-LED-400	3.4	3.3	3.0	2.3	2.0	1.9	1.5
TLC-LED-900	5.1	5.2	5.0	3.7	3.1	3.1	2.3
TLC-LED-900	5.1	5.0	4.6	4.0	3.2	3.0	2.3

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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**EQUIPMENT LAYOUT**

SIGNED AND SEALED SHOP DRAWINGS (BY A VIRGINIA PROFESSIONAL ENGINEER) ARE REQUIRED BY THE MANUFACTURER. CONTRACTOR SHALL COORDINATE THE SUBMISSION OF THE SHOP DRAWINGS.



**DEPARTMENT OF PARKS AND RECREATION**

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**ILLUMINATION SUMMARY & EQUIPMENT LAYOUT**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW

Drawn: AMT

Checked: SDT, JKS, MMW, CMB

Filename: e-01-150396024

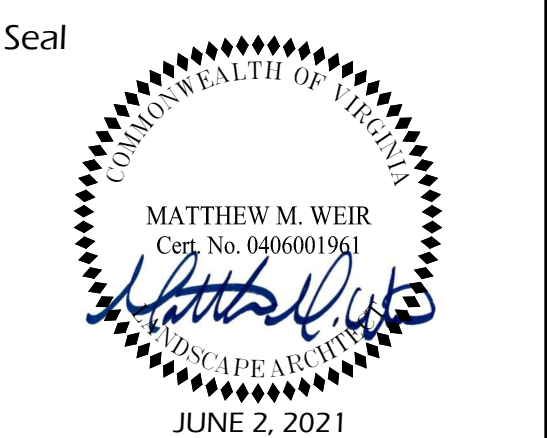
electrical.dwg

Plotted: 2021-06-02

Scale: 1" = 25'

Date: JUNE 2, 2021

Seal



Sheet

**E5.1**



### Control System Summary

**Project Specific Notes:**  
This service will include a Push Button Strobe assembly for Tennis & Basketball.

**Project Information**  
Project #: 203076  
Project Name: Arlington County Marcey Road Park Tennis And Basketball  
Date: 07/07/20  
Project Engineer: Brayton Carter  
Sales Representative: Joe Forche  
Control System Type: Control-Link™ Control and Monitoring System  
Communication Type: PowerLine-ST  
Scan: 203076D  
Document ID: 203076P1V3-0707142732  
Distribution Panel Location or ID: Service 1  
Total # of Distribution Panel Locations for Project: 1  
Design Voltage/Hertz/Phase: 240/60/1  
Control Voltage: 120

**Equipment Listing**

DESCRIPTION	APPROXIMATE SIZE
1. Control and Monitoring Cabinet	24 X 48
Total Contactors	6 QTY - SIZE (AMPS) 30 AMP
Total Off/On/Auto Switches:	2

**Confirm all Details - voltage, # of distribution panels, etc.**

- IMPORTANT NOTES**
- Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
  - In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
  - One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are 100% rated for the published continuous load. All contactors are 3 pole.
  - If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
  - A single control circuit must be supplied per control system.
  - Size overcurrent devices using the full load amps column of the Circuit Summary by Zone chart. Minimum power factor is 0.9.

**NOTE:** Refer to Installation Instructions for more details on equipment information and the installation requirements.

T:\203076P1V3-0707142732.dwg

©1999-2020 Musco Sports Lighting LLC  
Form: T-00301



### Control System Summary

Arlington County Marcey Road Park Tennis And Basketball Relight / 203076 - 203076D  
Service 1 - Page 3 of 4

#### SWITCHING SCHEDULE

Field/Zone Description	Zones
Tennis 1-3	1
Basketball	2

**CONTROL POWER CONSUMPTION**  
120V Single Phase

VA loading of Musco Supplied Equipment	INRUSH: 2043.0 SEALED: 231.8
--	---------------------------------

**CIRCUIT SUMMARY BY ZONE**

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
T1	Tennis 1-3	2	2	7.5	30	C1	1
T2	Tennis 1-3	2	2	7.5	30	C2	1
T3	Tennis 1-3	2	2	7.5	30	C3	1
T4	Tennis 1-3	2	2	7.5	30	C4	1
B1	Basketball	2	1	4.0	30	C5	2
B2	Basketball	2	1	4.0	30	C6	2

\*Full Load Ampe based on amps per driver.

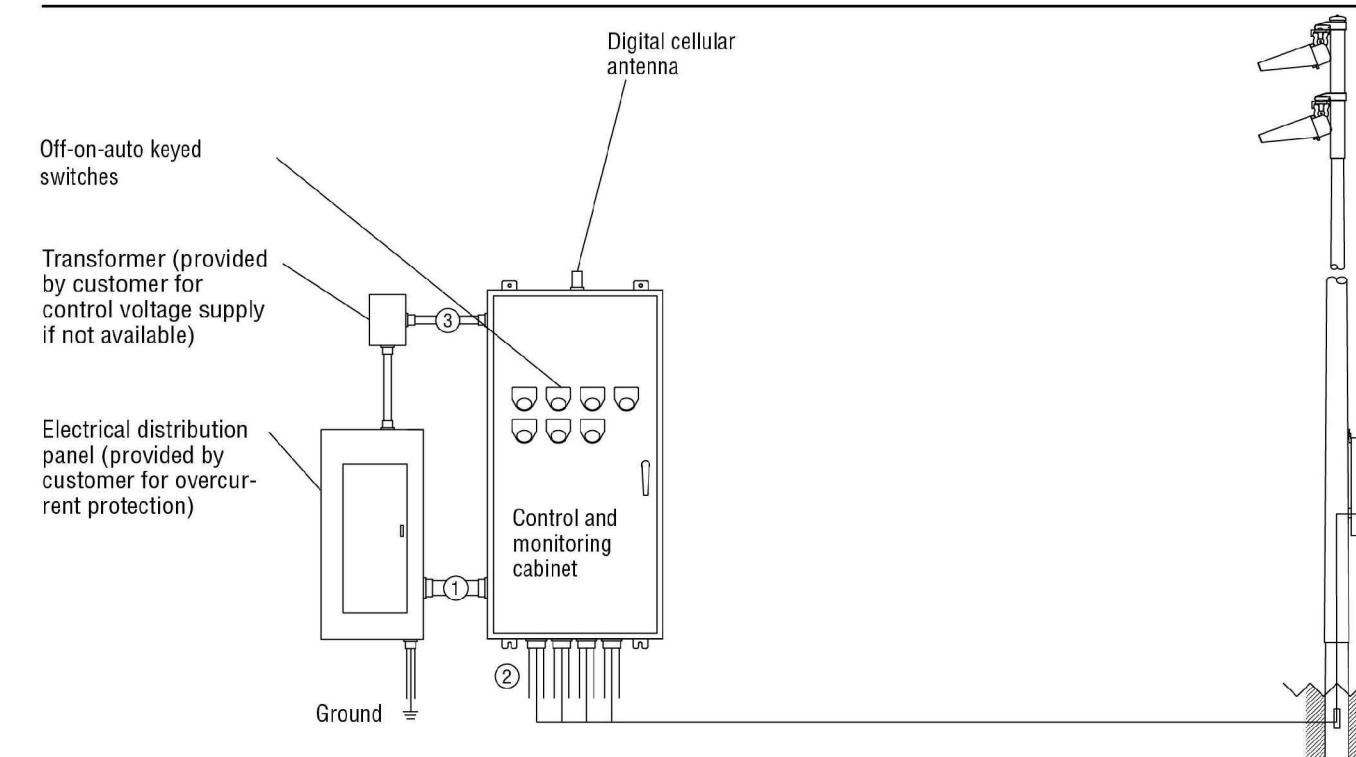
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### Control System Summary

Arlington County Marcey Road Park Tennis And Basketball Relight / 203076 - 203076D  
Service 1 - Page 2 of 4

#### Control-Link Control and Monitoring System



Conduit ID	Description	# of Wires	Wire (AWG)	Conduit (in)	Max. Wire Length (ft)	MUSCO Supplied	Notes
1	Line power to contactors, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
1	Power-line Communication Connection (dedicated, 20A)	*A	12	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C,E

- \* Notes:
- See voltage and phasing per the notes on cover page.
  - Calculate per load and voltage drop.
  - All conduit diameters should be per code unless otherwise specified to allow for connector size.
  - Equipment grounding conductor and any splices must be insulated.
  - Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

**IMPORTANT:** Control wires (3) must be in separate conduit from line and load power wires (1, 2).

T:\203076P1V3-0707142732.dwg



### Control System Summary

Arlington County Marcey Road Park Tennis And Basketball Relight / 203076 - 203076D  
Service 1 - Page 4 of 4

#### PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole T1	7.53		
1	1	C2	Pole T2	7.53		
1	1	C3	Pole T3	7.53		
1	1	C4	Pole T4	7.53		
1	1	C5	Pole B1	4.00		
1	1	C6	Pole B2	4.00		

#### ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
			POLE ID	CONTACTOR ID
Zone 1	1	Tennis 1-3	T1	C1
			T2	C2
			T3	C3
			T4	C4
Zone 2	2	Basketball	B1	C5
			B2	C6

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DEPARTMENT OF PARKS AND RECREATION

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

21-DPR-ITB-646

Project Name and Location

Marcey Road Park Improvements (By Right)

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

CONTROL SYSTEM SUMMARY

100% Construction Drawings

Approval Date

Design Manager

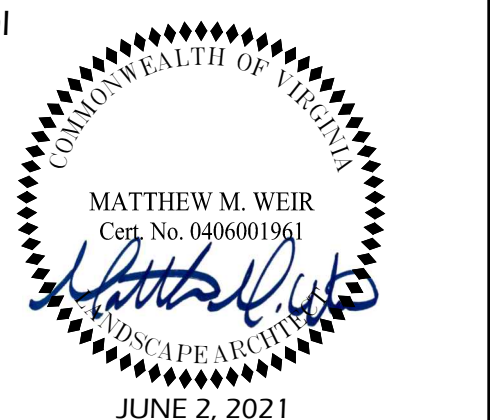
Revisions Date

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

Filename: e-01-150396024 electrical.dwg  
Plotted: 2021-06-02

Scale: 1" = 25'  
Date: JUNE 2, 2021

Seal



Sheet

E5.2

SIGNED AND SEALED SHOP DRAWINGS (BY A VIRGINIA PROFESSIONAL ENGINEER) ARE REQUIRED BY THE MANUFACTURER. CONTRACTOR SHALL COORDINATE THE SUBMISSION OF THE SHOP DRAWINGS.

**NOTES:**

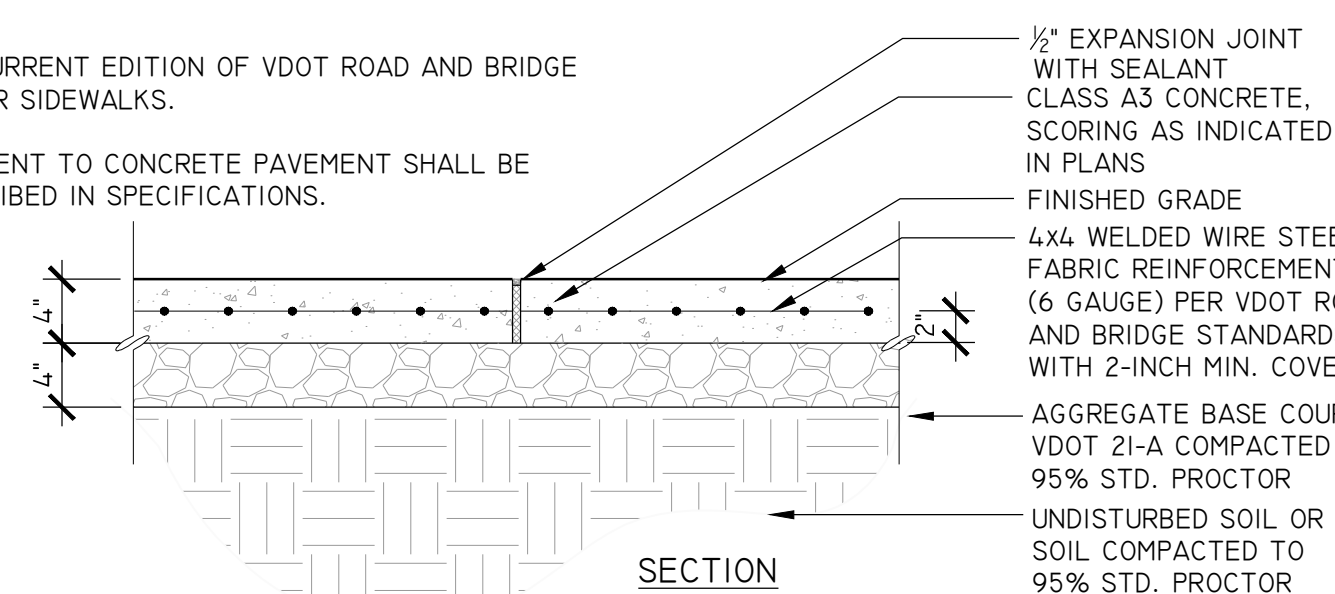
1. THIS DETAIL IS INTENDED FOR NON-RIGHT-OF-WAY APPLICATIONS ONLY. ALL CONCRETE PAVEMENT WITHIN COUNTY RIGHT-OF-WAY SHALL BE CONSTRUCTED PER ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) STANDARDS.

2. JOINTS: PROVIDE EXPANSION JOINTS EVERY 20' O.C. UNLESS OTHERWISE INDICATED IN PLANS AND AROUND HARD OBJECTS SUCH AS HYDRANTS, MANHOLE COVERS, EXISTING PAVEMENTS, ETC. PROVIDE HAND-TOOLED CONTROL JOINTS EVERY 5' O.C. OR AS SHOWN ON THE PLANS. CONTROL (SCORE) JOINTS SHALL BE CUT TO 1/3 DEPTH OF TOTAL CONCRETE THICKNESS.

3. EXPANSION JOINTS SHALL BE DOWELED TO PREVENT FUTURE DIFFERENTIAL SETTLEMENT AND SEALED WITH SEALANT. COLOR TO MATCH COLOR OF CONCRETE.

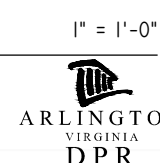
4. FINISH IN ACCORDANCE WITH CURRENT EDITION OF VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 404.7 FOR SIDEWALKS.

5. DISTURBED LAWN AREAS ADJACENT TO CONCRETE PAVEMENT SHALL BE BACKFILLED AND SEEDED AS DESCRIBED IN SPECIFICATIONS.



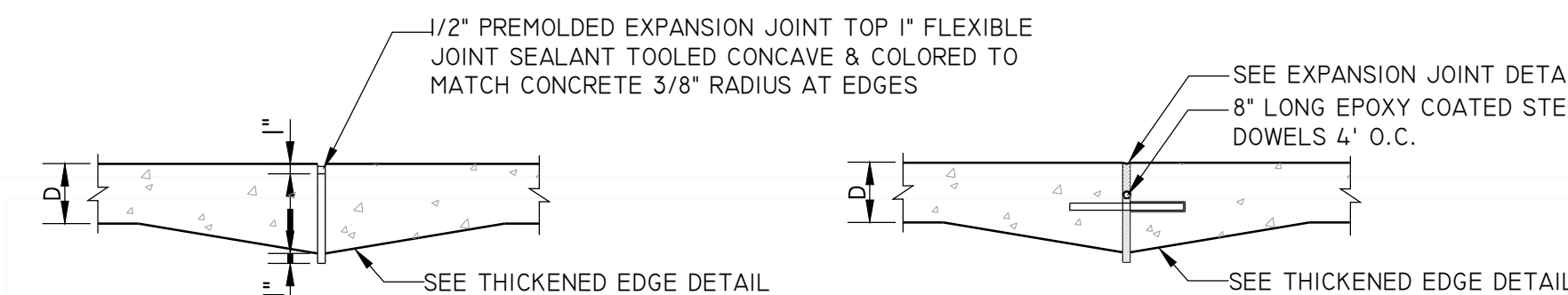
**1** REINFORCED CONCRETE PAVEMENT (4" THICKNESS)

321313.1 (2017)



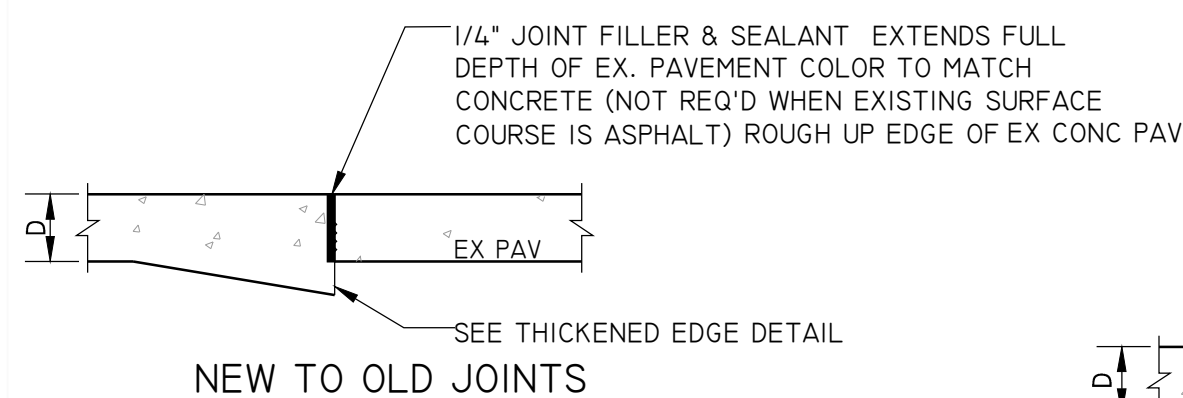
**2** CONCRETE PAVEMENT JOINTS

321313.4 (2017)



EXPANSION JOINTS

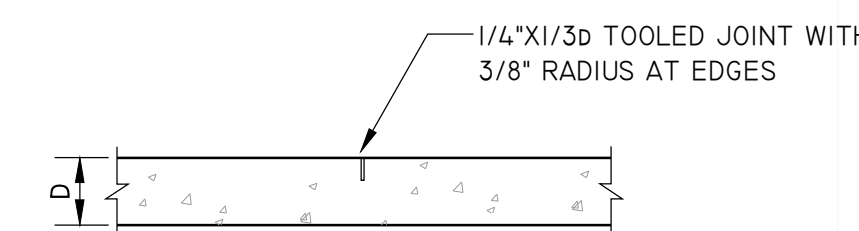
EXPANSION JOINTS WITH DOWEL



NEW TO OLD JOINTS

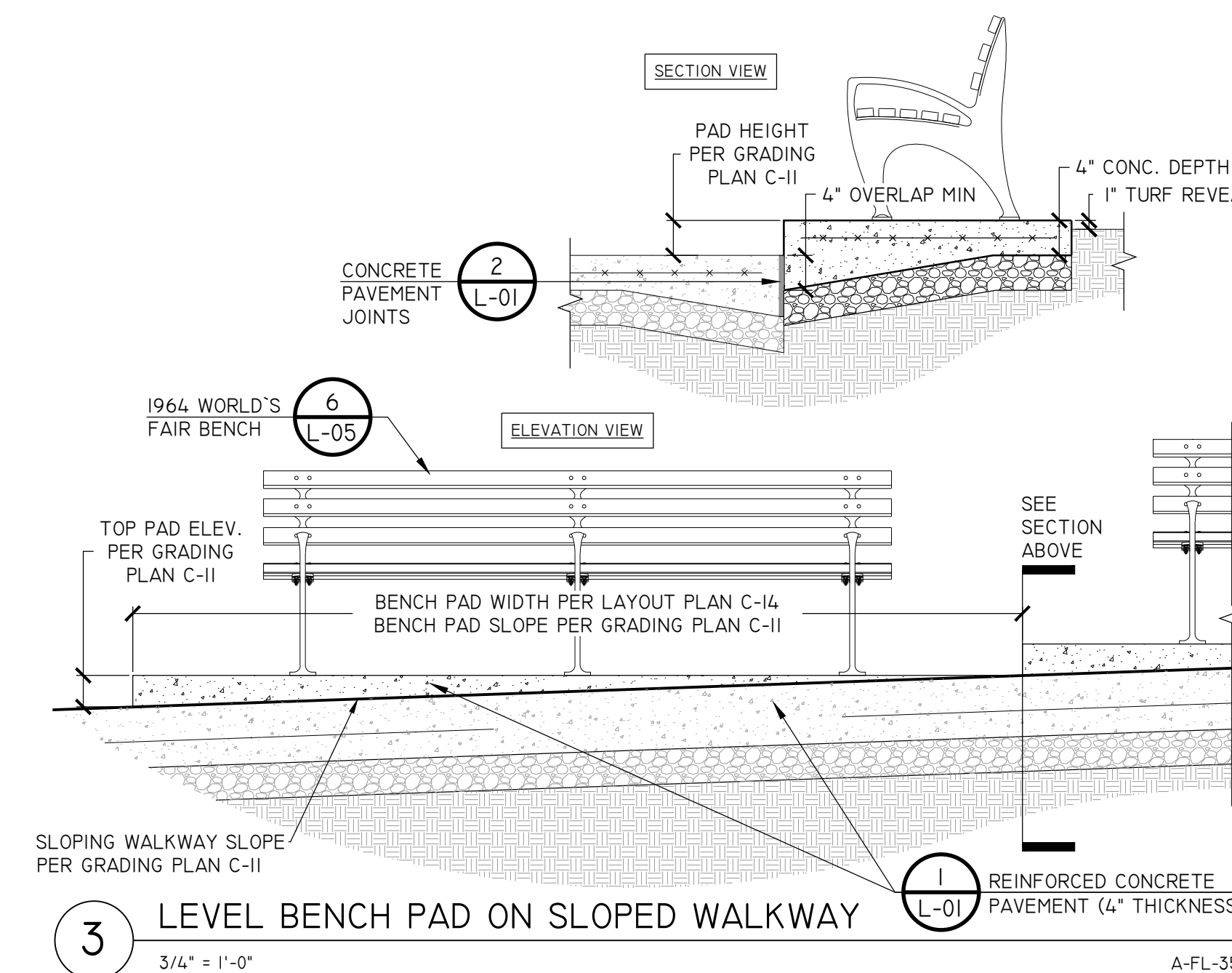
**NOTES:**

1. TRANSVERSE JOINT SPACE SHALL NOT EXCEED SPACING INDICATED IN PLANS. THE AREA OF THE PAVEMENT PANEL SHALL NOT EXCEED 225 SQUARE FEET.
2. JOINT OFFSETS AT RADIUS POINTS SHOULD BE AT LEAST 1'-6" LONG.
3. JOINT INTERSECTION ANGLES OF LESS THAN 60 DEGREES SHALL NOT BE USED.
4. WHEN A JOINT IS CLOSER THAN 1'-0" TO A CASTING, THEN A MINOR ADJUSTMENT IN THE JOINT LOCATION SHOULD BE MADE BY SKEWING OR SHIFTING THE JOINT ALIGNMENT TO MEET THE CASTING AT 90° OR NORMAL TO THE CASTING.



CONTROL JOINTS

THICKENED EDGE DETAIL



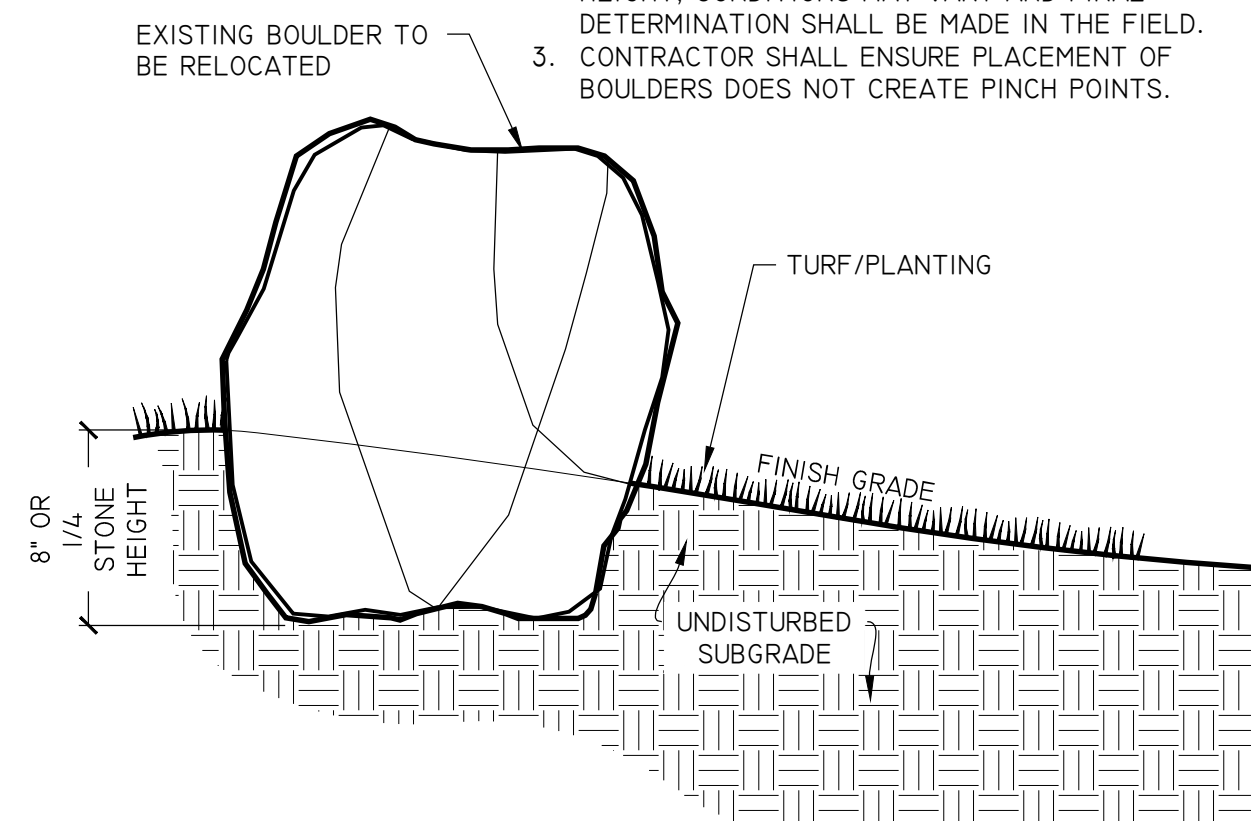
**3** LEVEL BENCH PAD ON SLOPED WALKWAY

3 3/4" = 1'-0"

A-FL-35

**NOTES:**

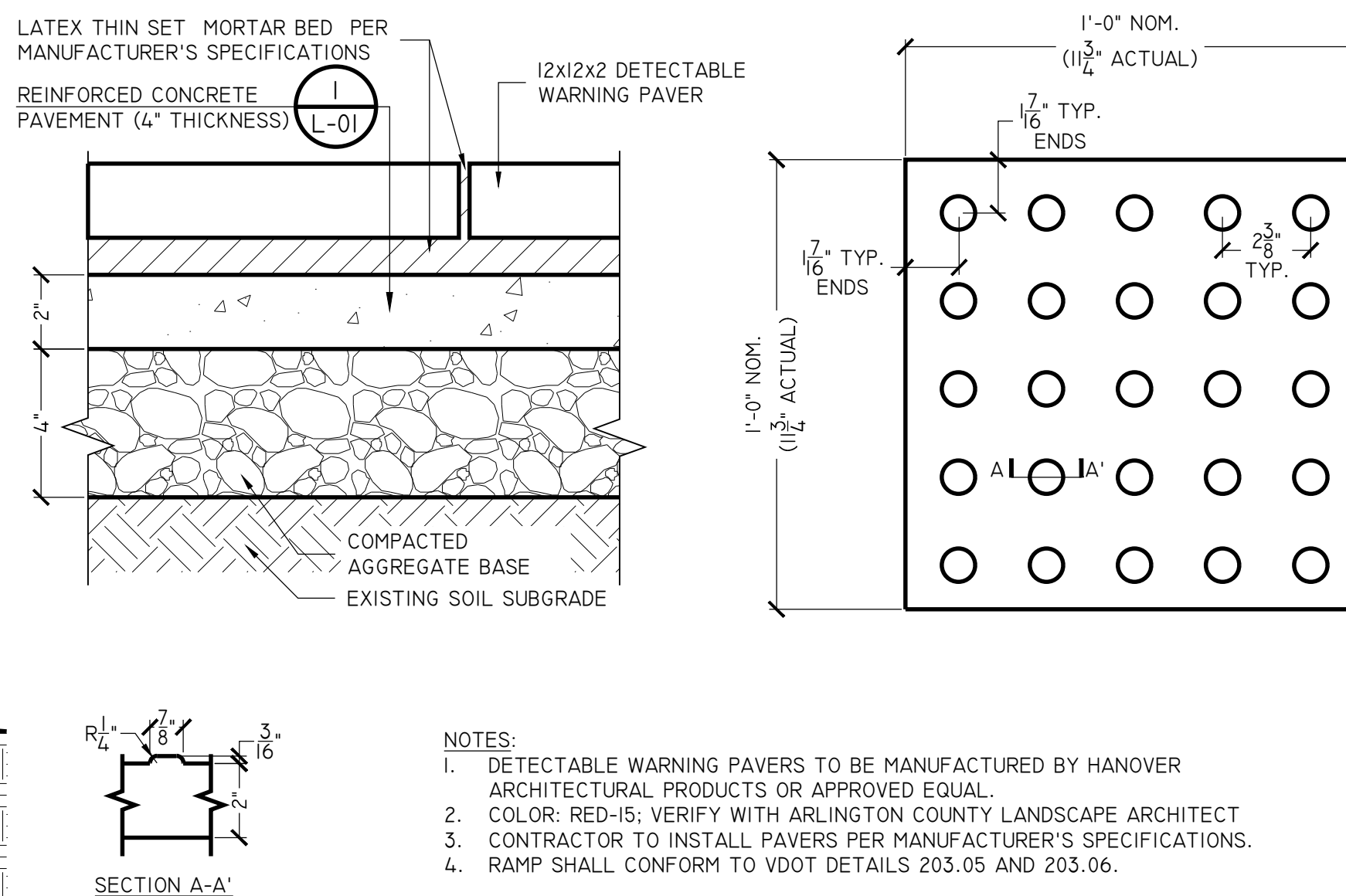
1. EXISTING BOULDER SHALL BE SET STRAIGHT IN SOIL. LOCATION TO BE DETERMINED IN FIELD AND APPROVED BY LANDSCAPE ARCHITECT.
2. ALL BOULDERS SET IN GRADE MUST BE SUNK A MINIMUM OF 8" IN GROUND OR 1/4 THEIR TOTAL HEIGHT. CONDITIONS MAY VARY AND FINAL DETERMINATION SHALL BE MADE IN THE FIELD.
3. CONTRACTOR SHALL ENSURE PLACEMENT OF BOULDERS DOES NOT CREATE PINCH POINTS.



**4** RELOCATED BOULDER

1' = 1'-0"

A-175



**5** DETECTABLE WARNING PAVER

3' = 1'-0"

A-FL-16

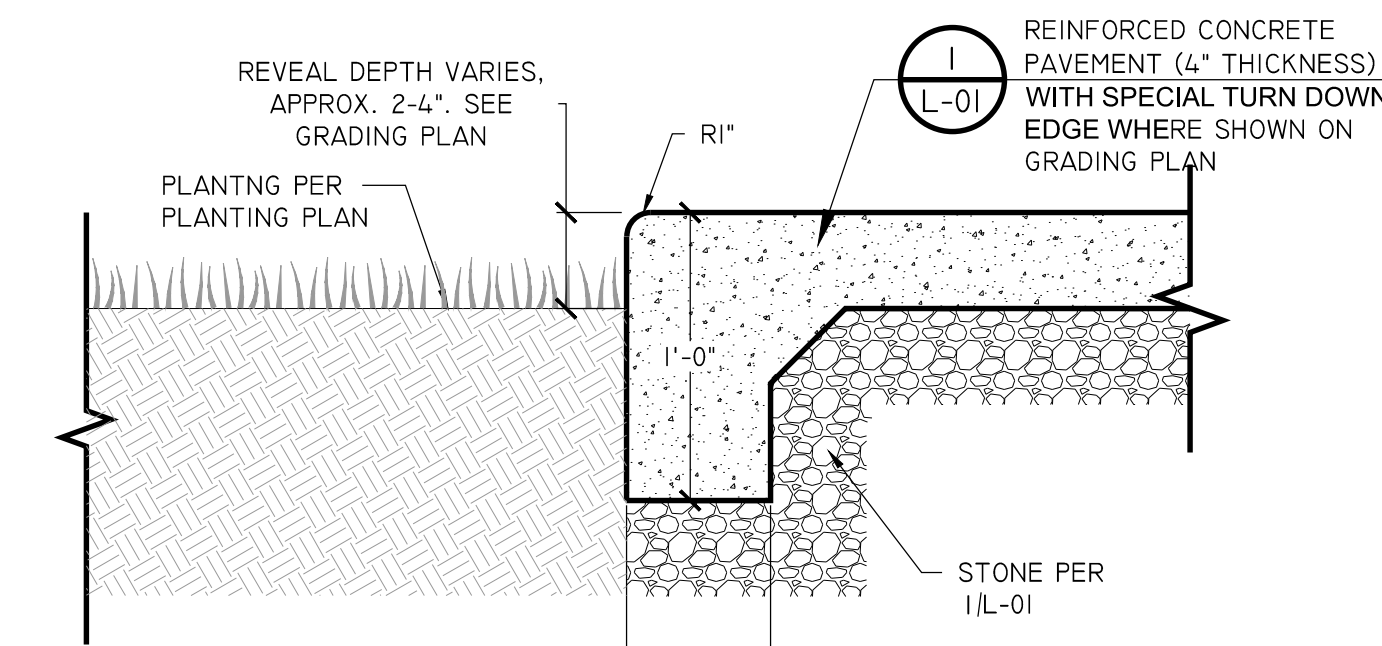
**NOTES:**

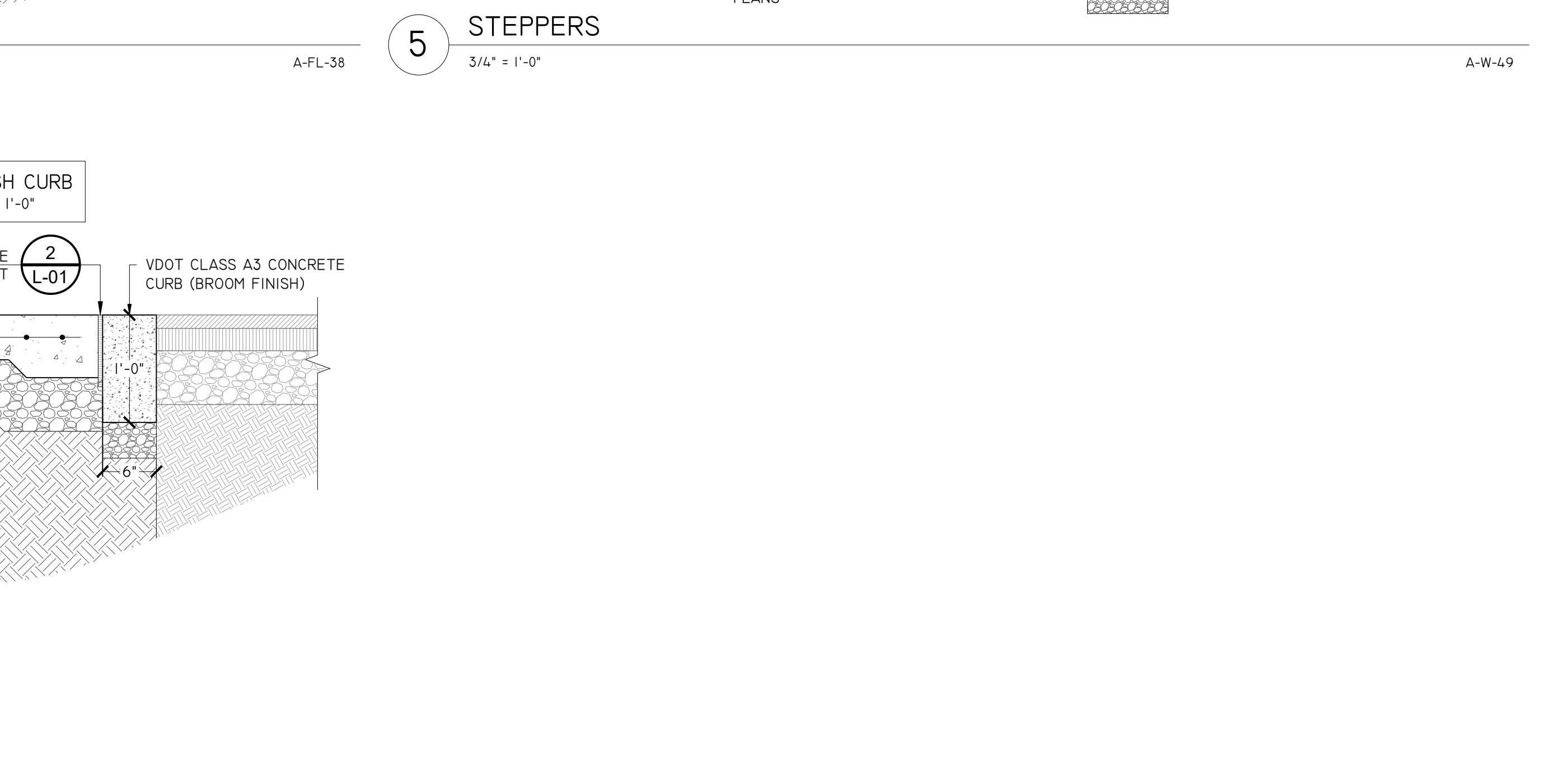
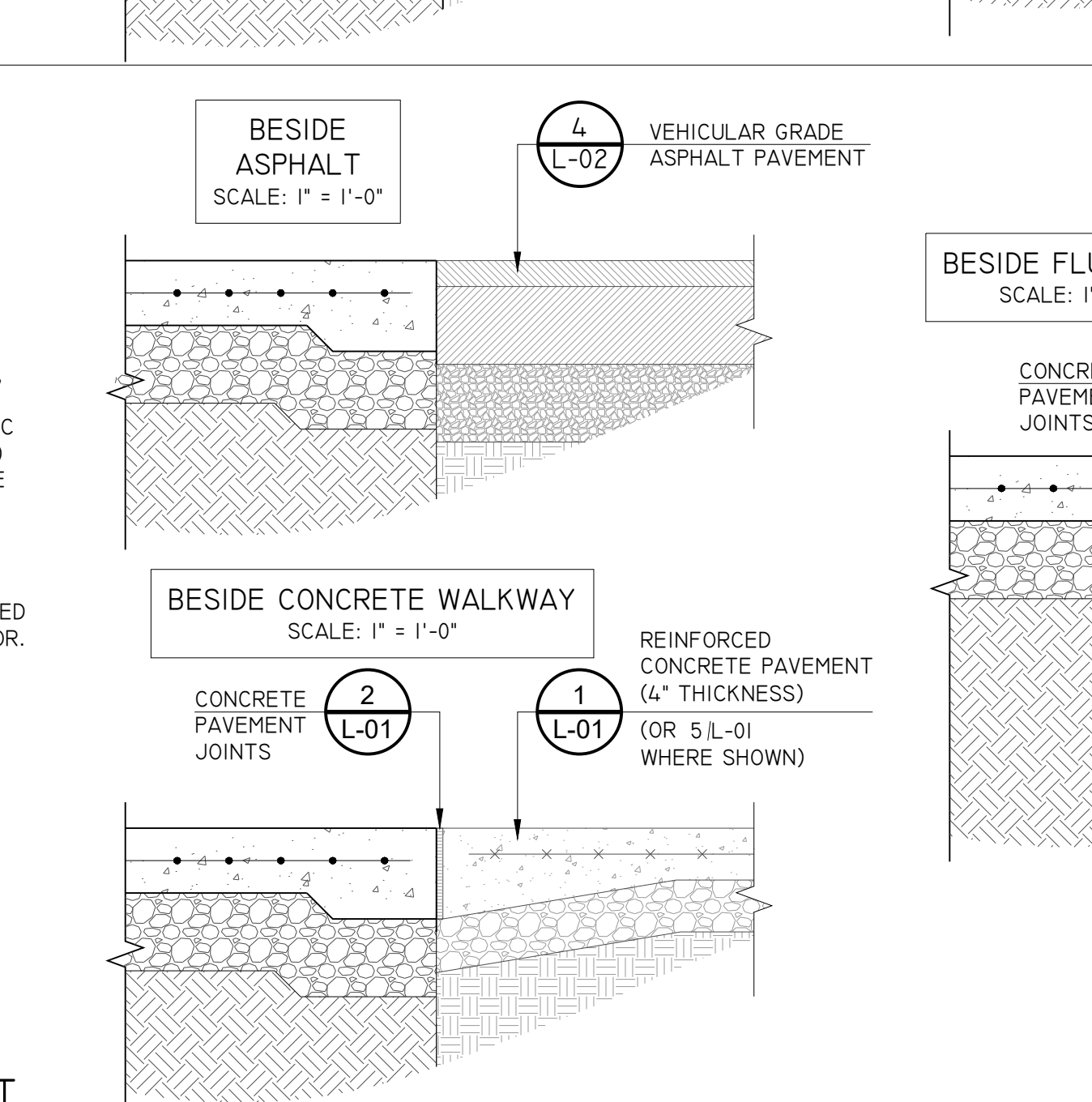
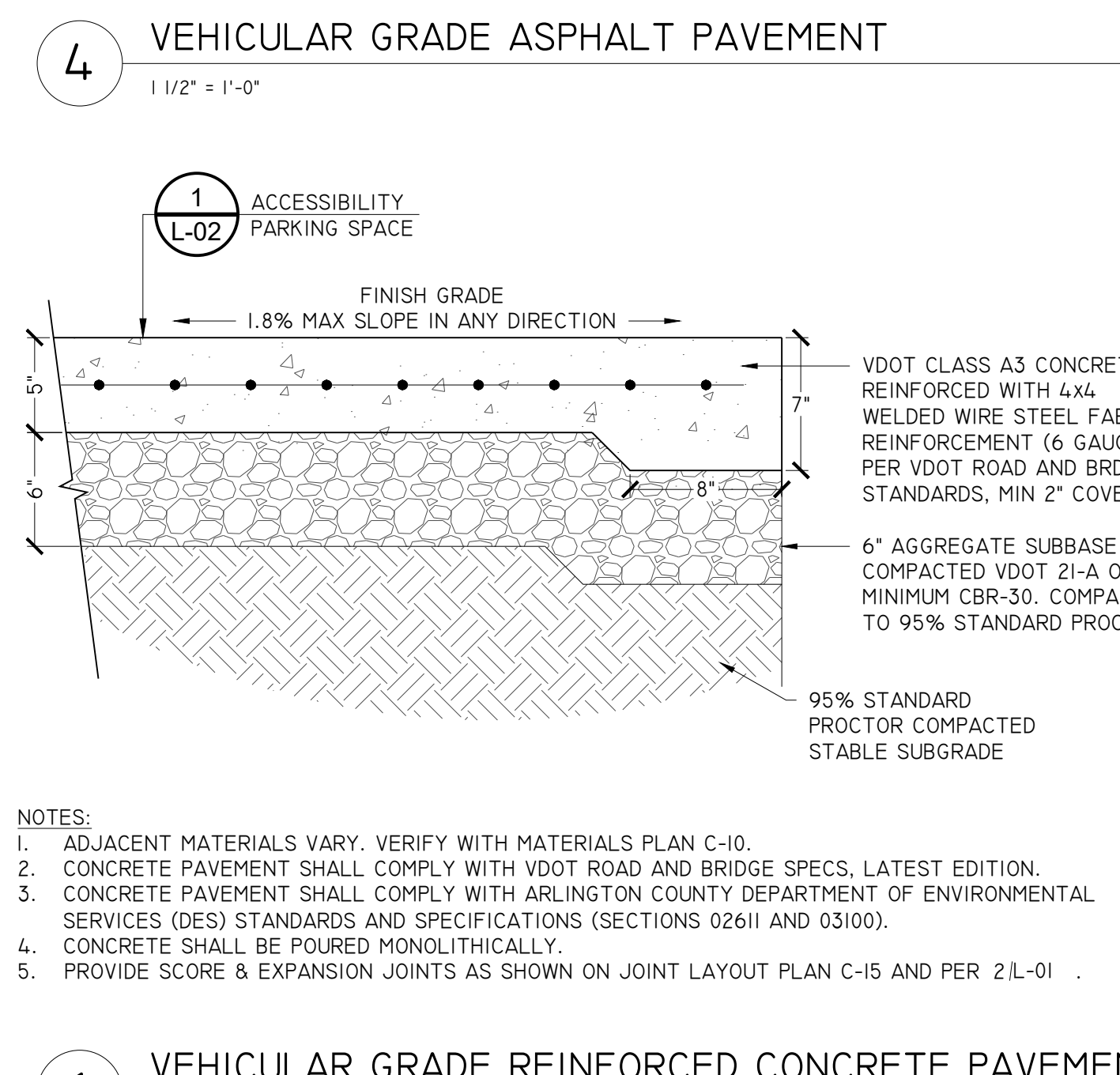
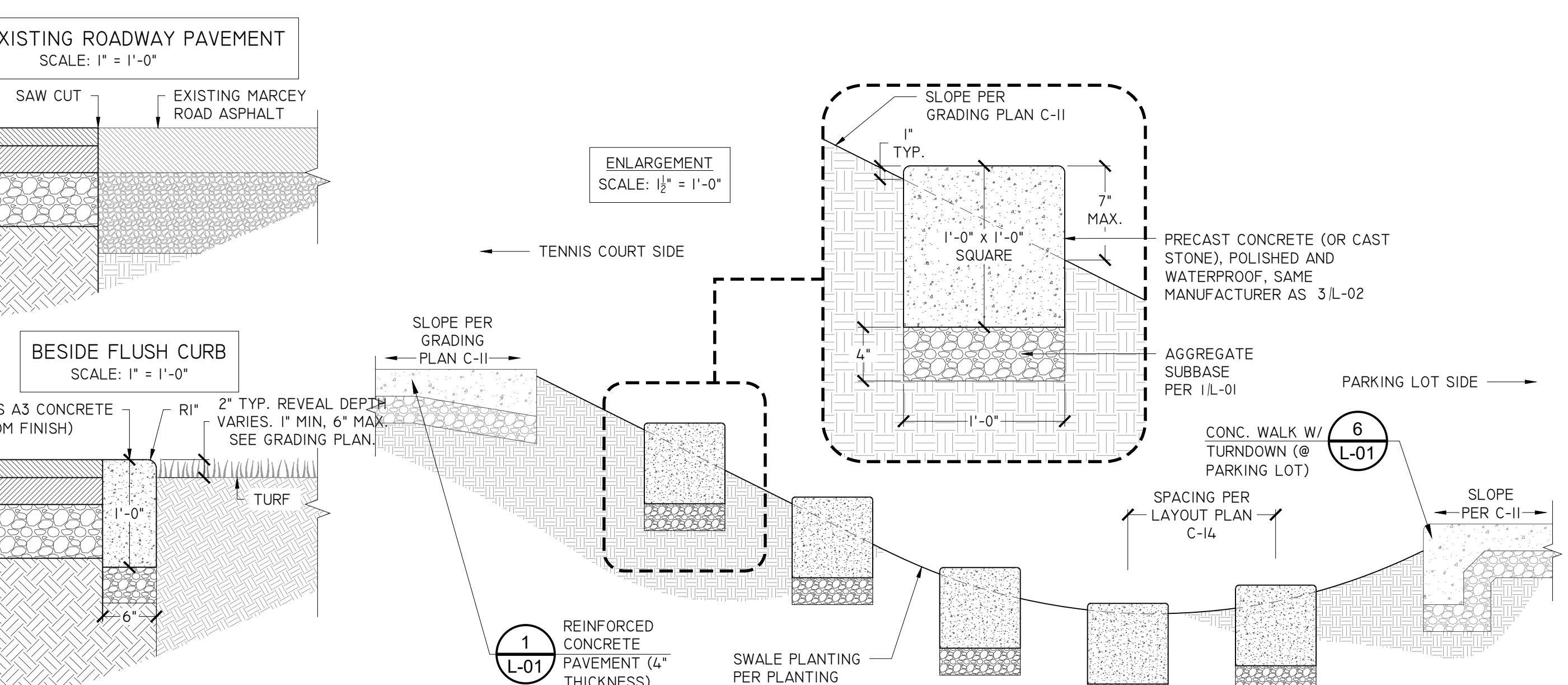
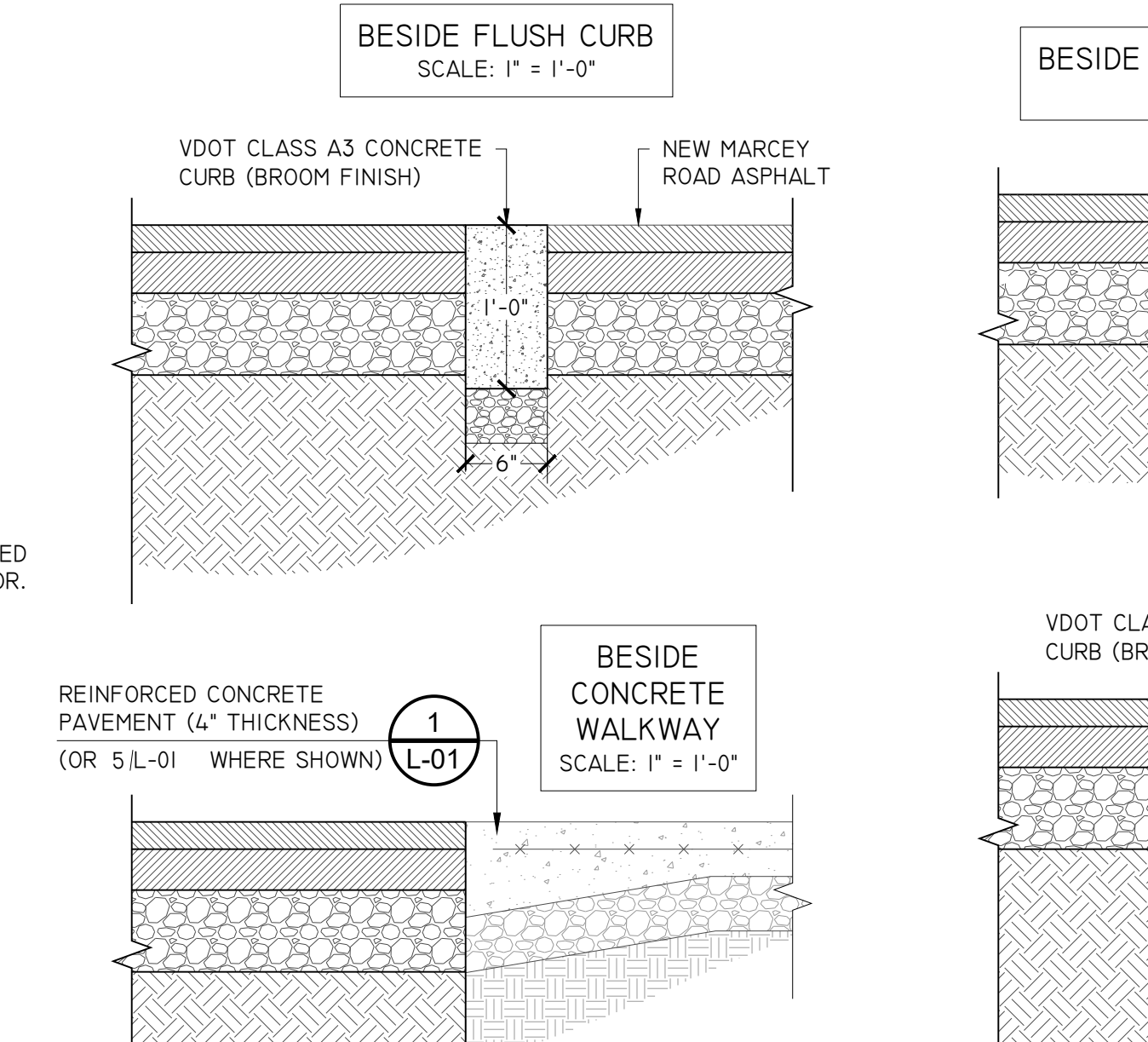
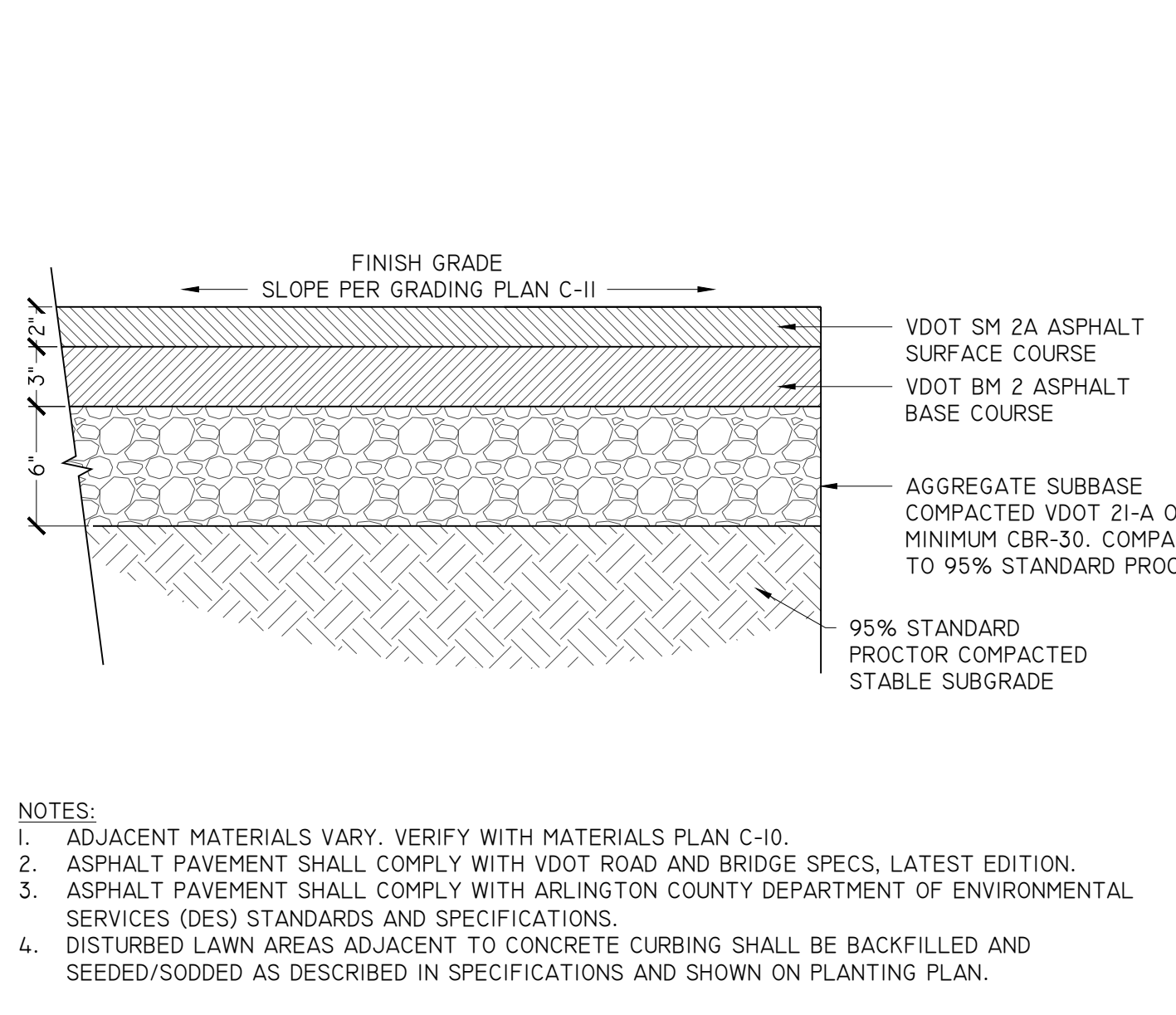
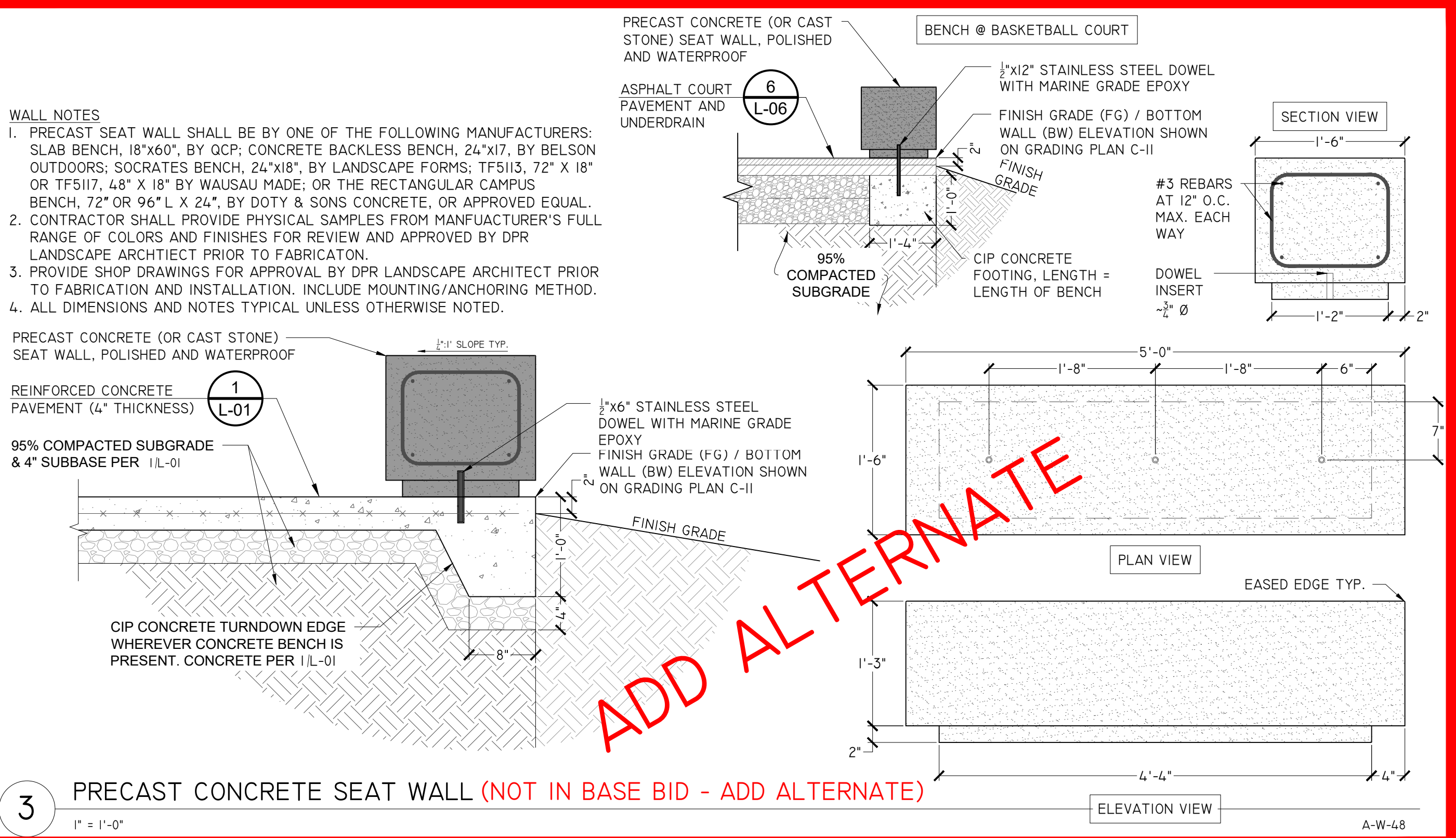
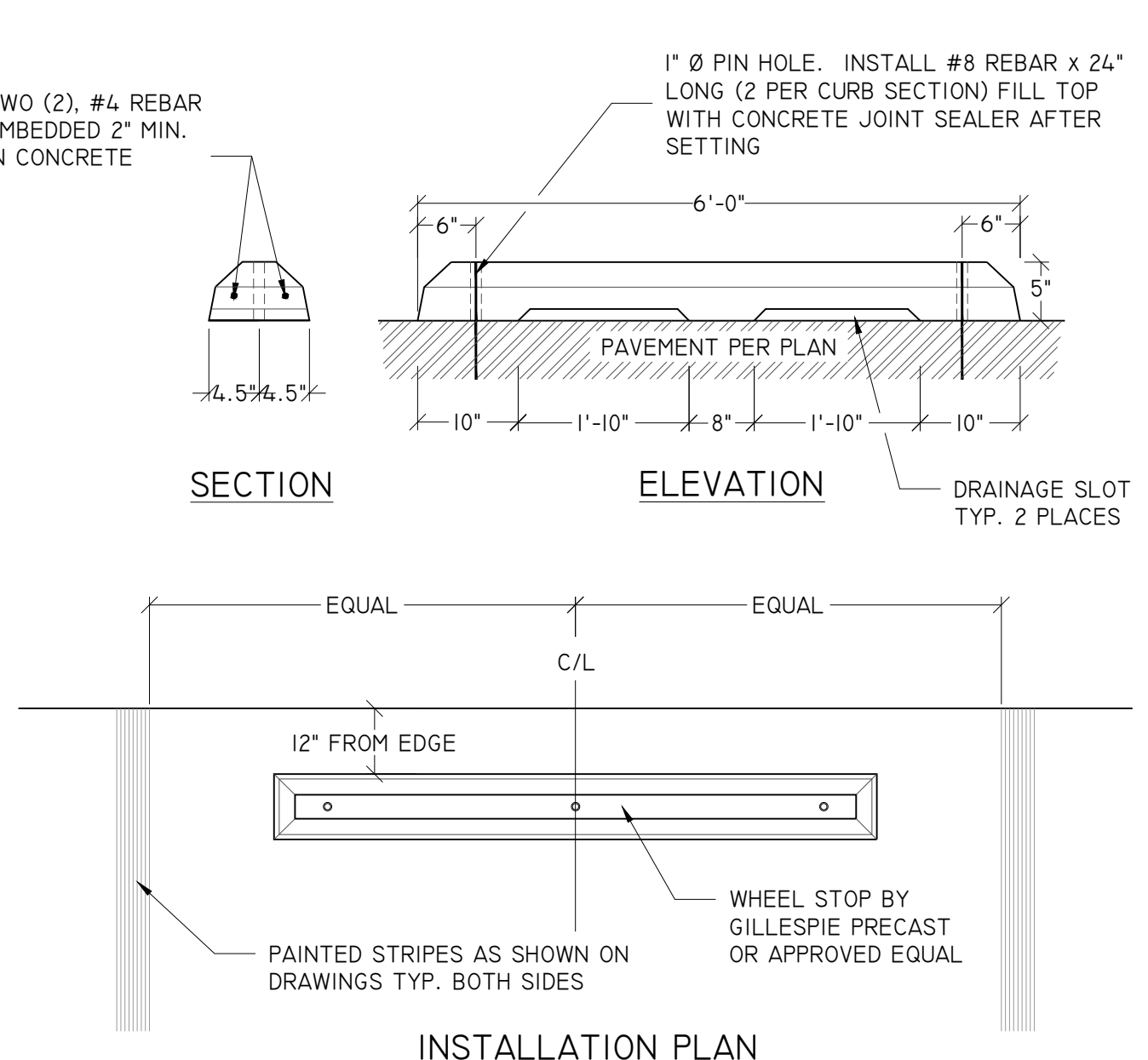
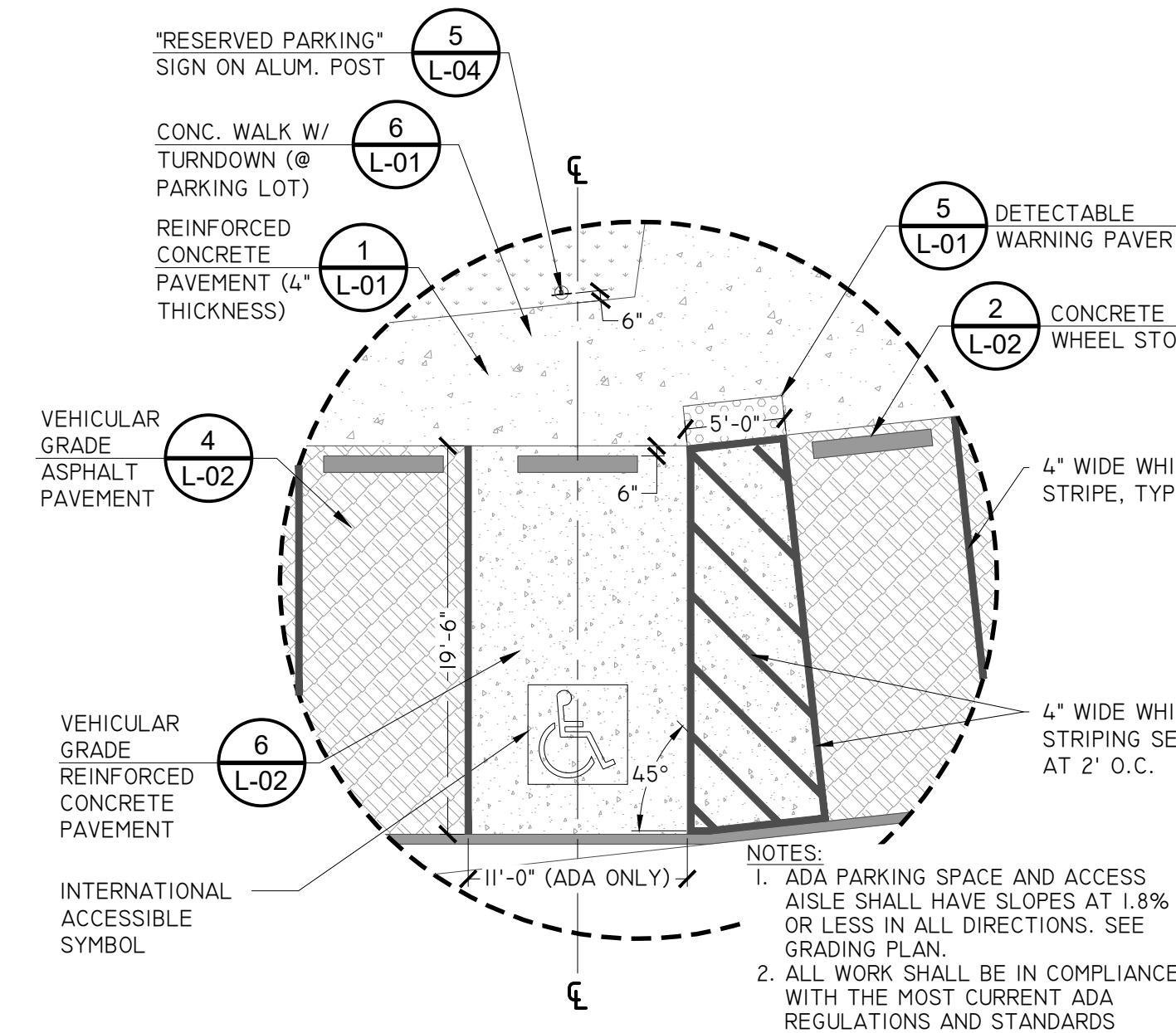
1. DETECTABLE WARNING PAVERS TO BE MANUFACTURED BY HANOVER ARCHITECTURAL PRODUCTS OR APPROVED EQUAL.
2. COLOR: RED-15; VERIFY WITH ARLINGTON COUNTY LANDSCAPE ARCHITECT
3. CONTRACTOR TO INSTALL PAVERS PER MANUFACTURER'S SPECIFICATIONS.
4. RAMP SHALL CONFORM TO VDOT DETAILS 203.05 AND 203.06.

**6** CONC. WALK W/ TURNDOWN (@ PARKING LOT)

1 1/2" = 1'-0"

A-FL-34

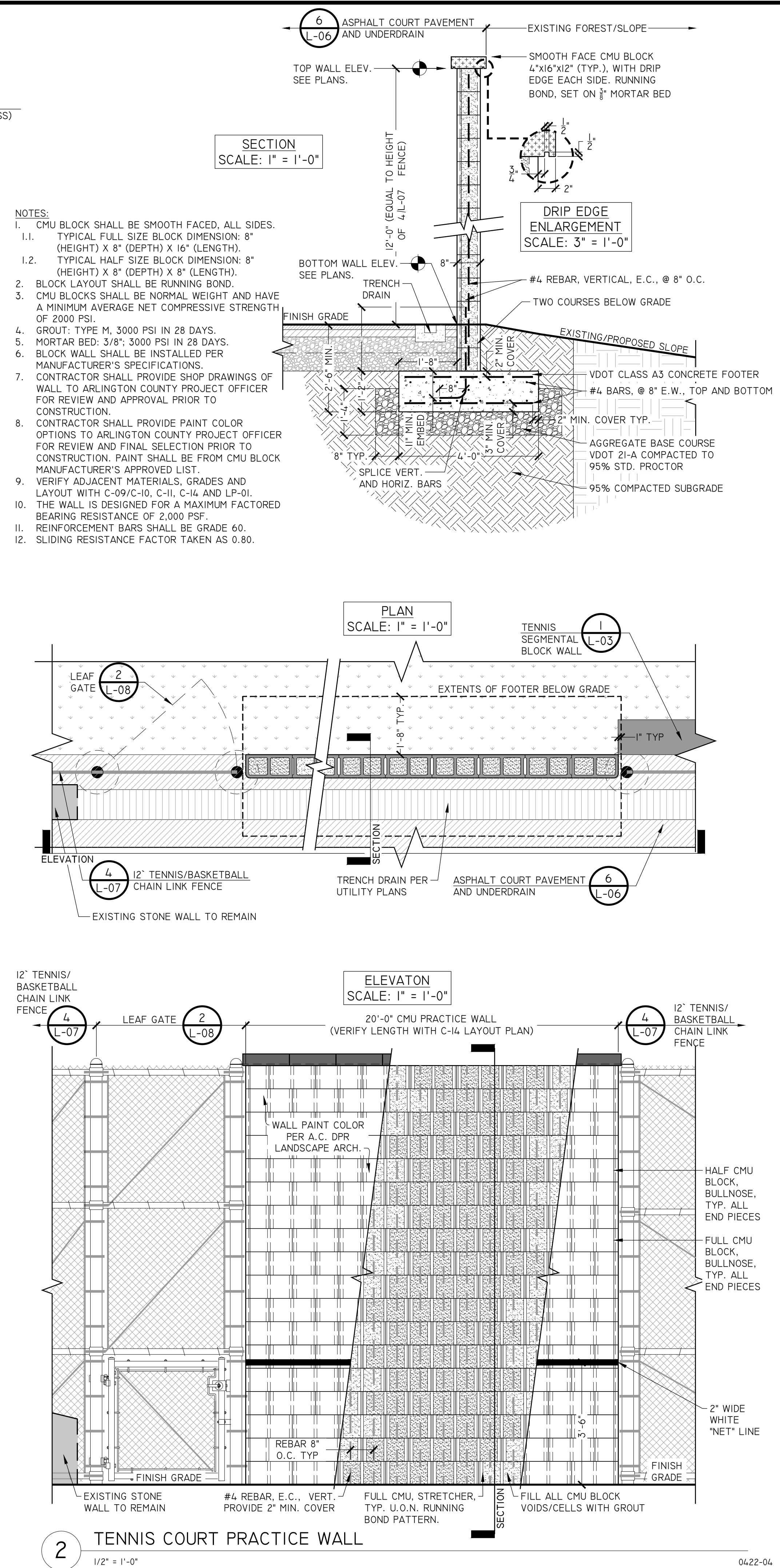
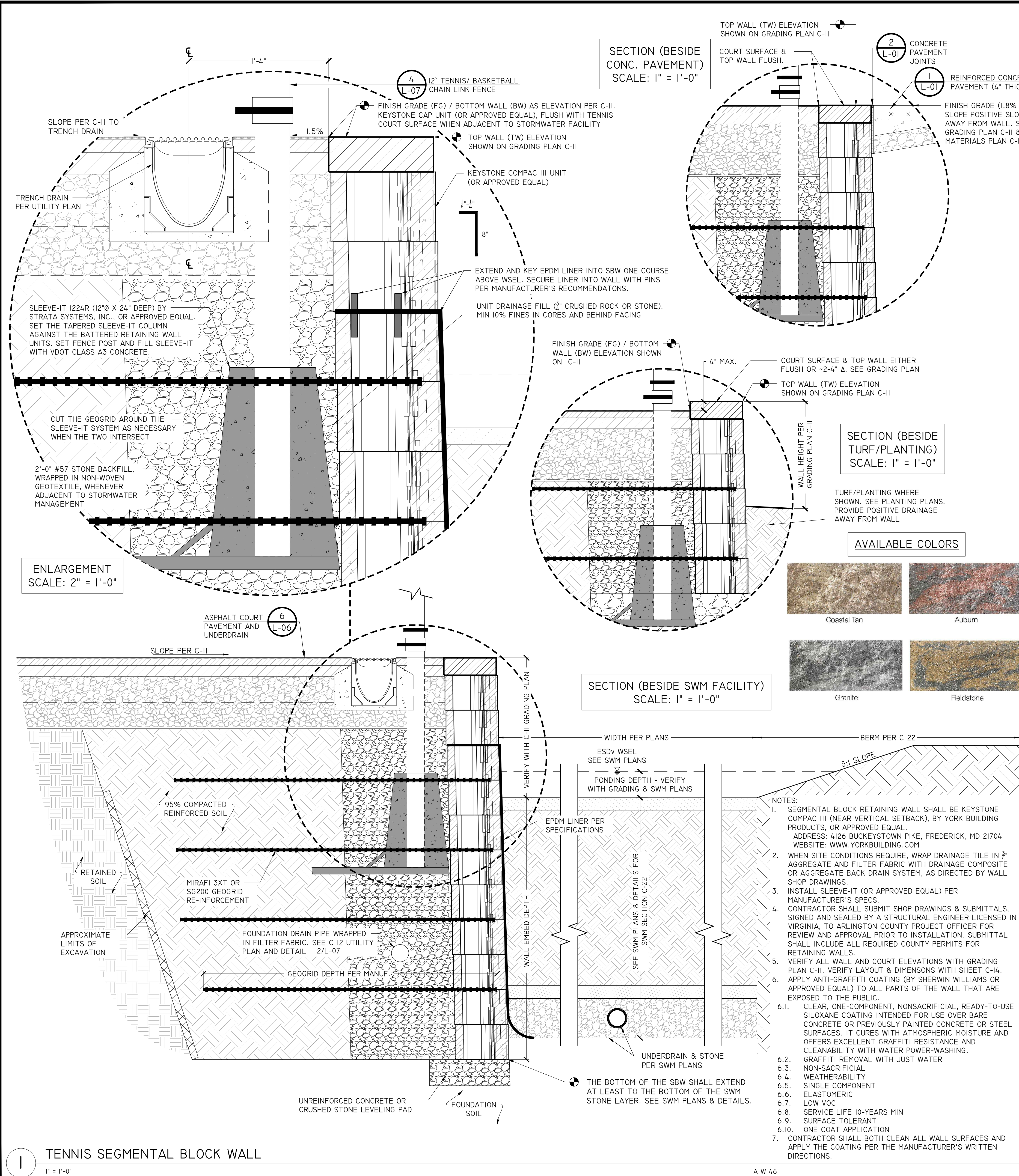


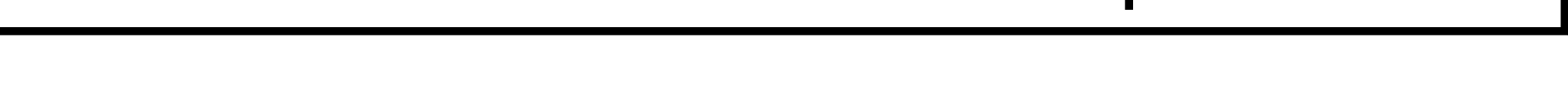
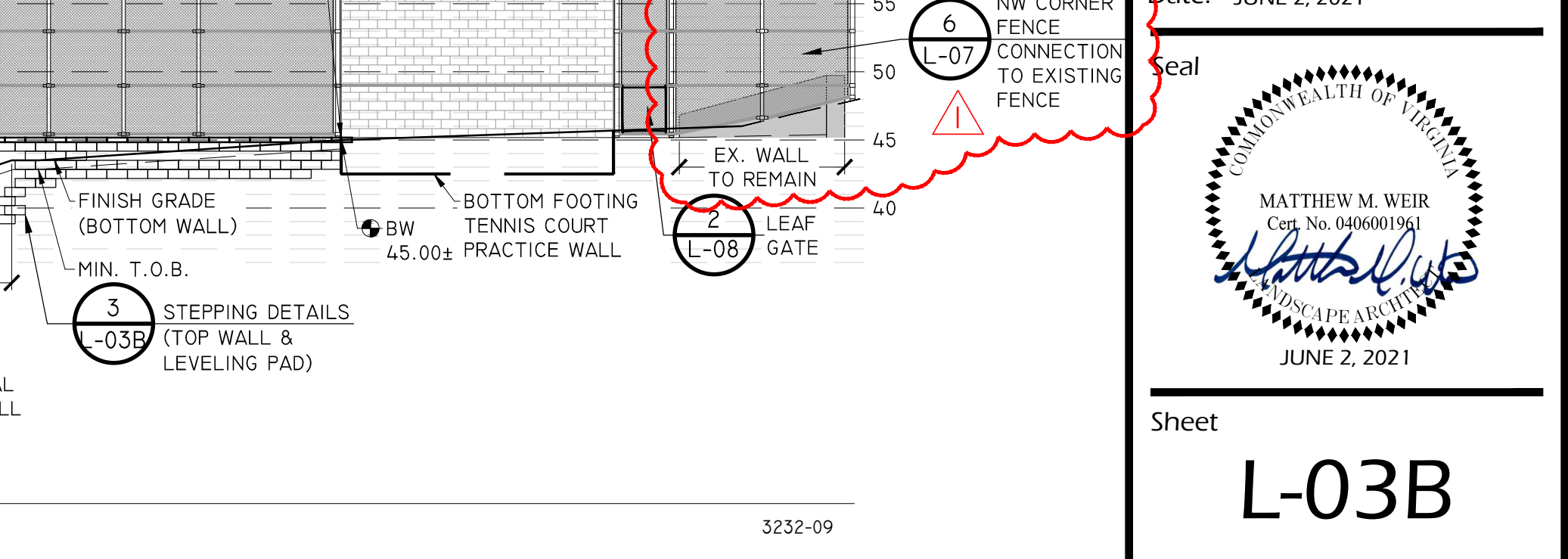
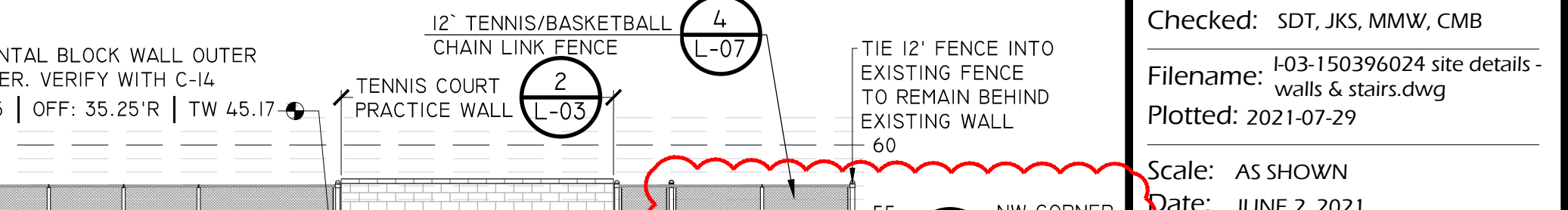
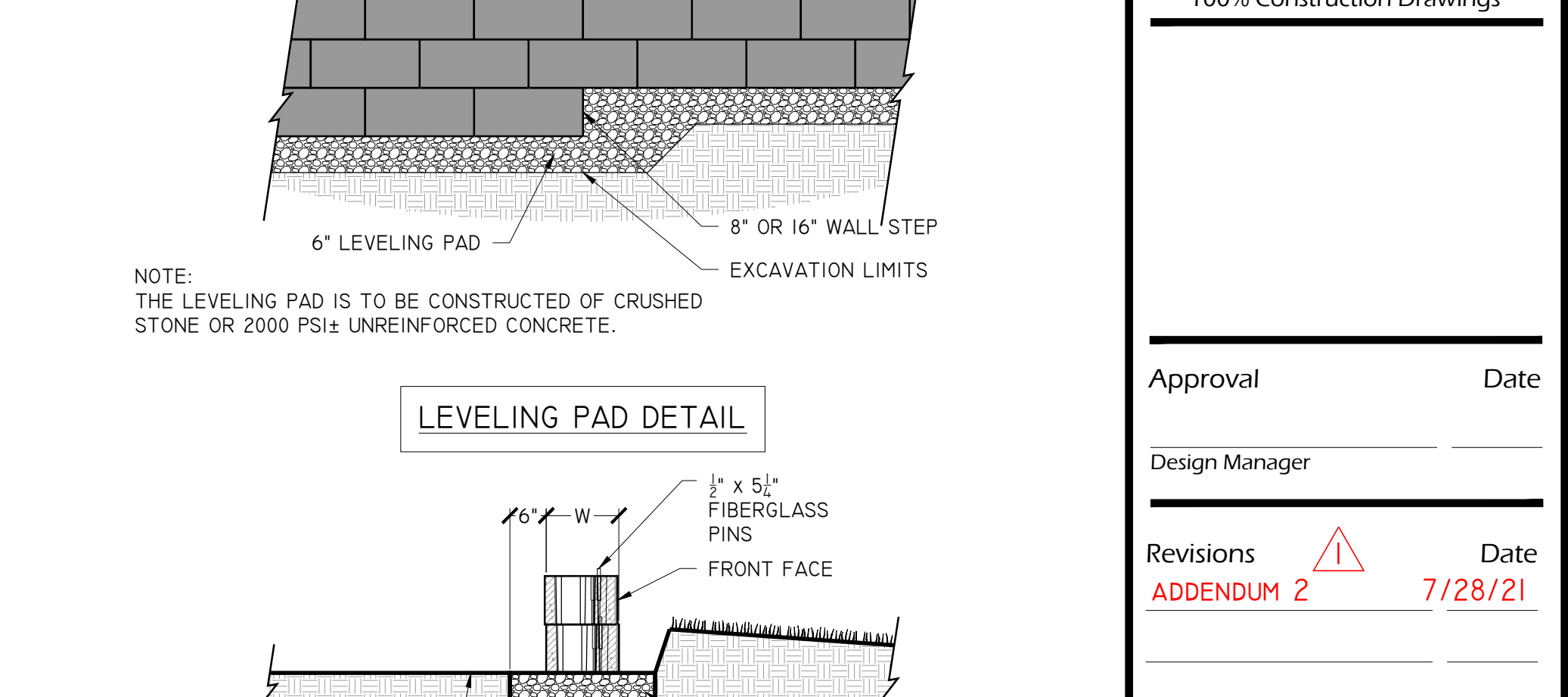
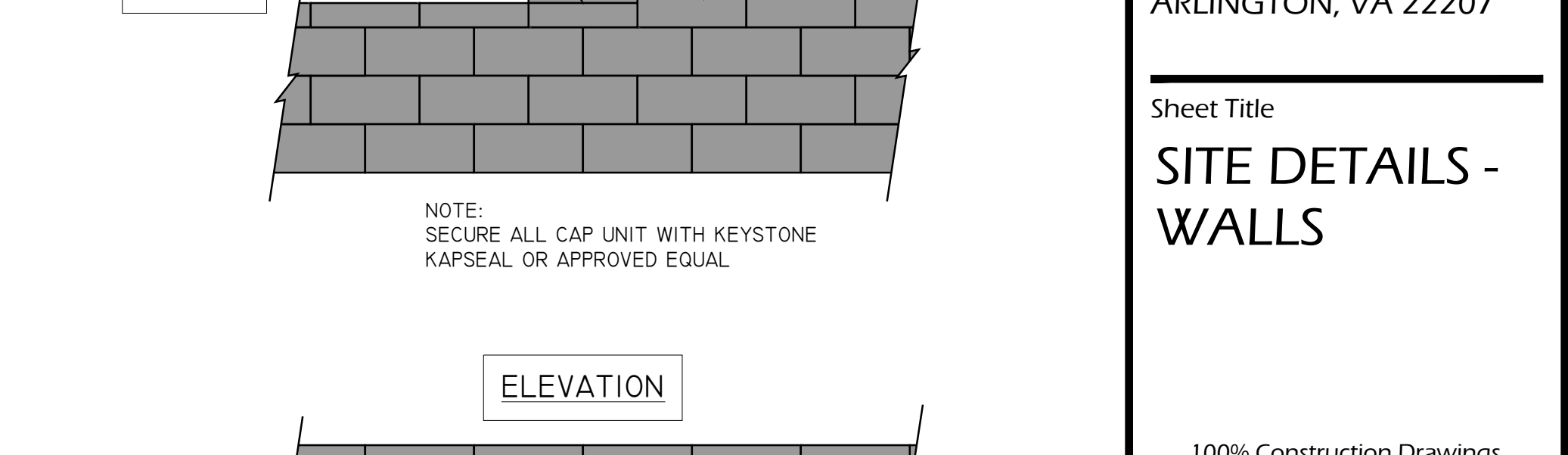
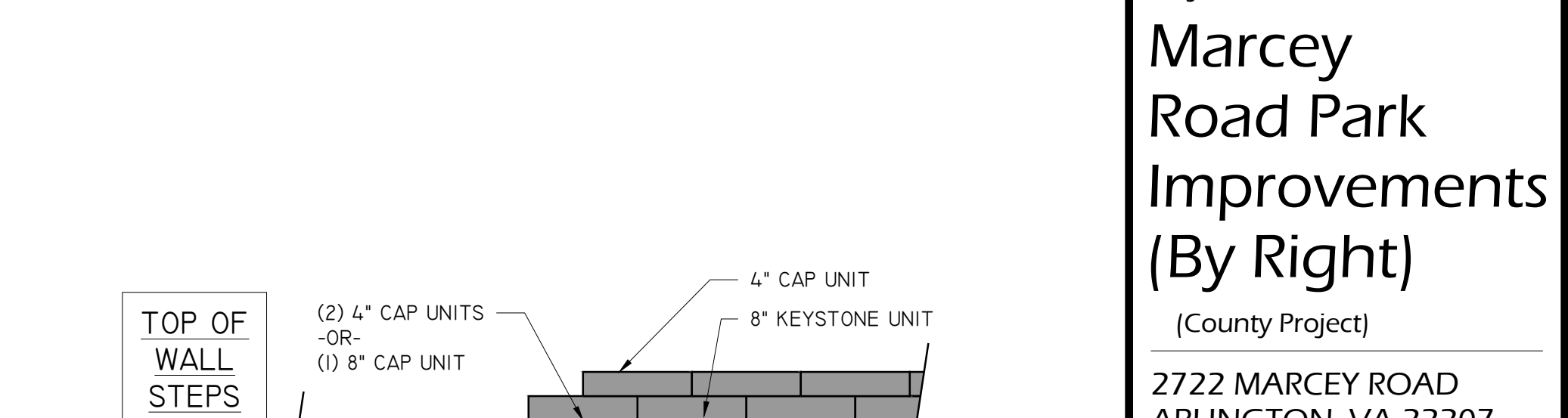
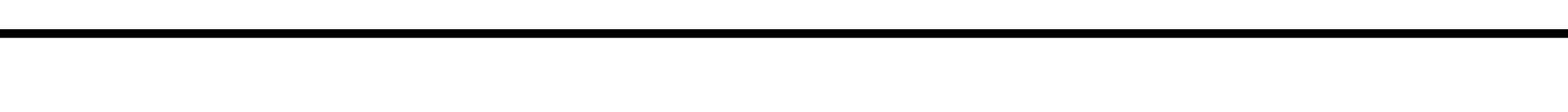
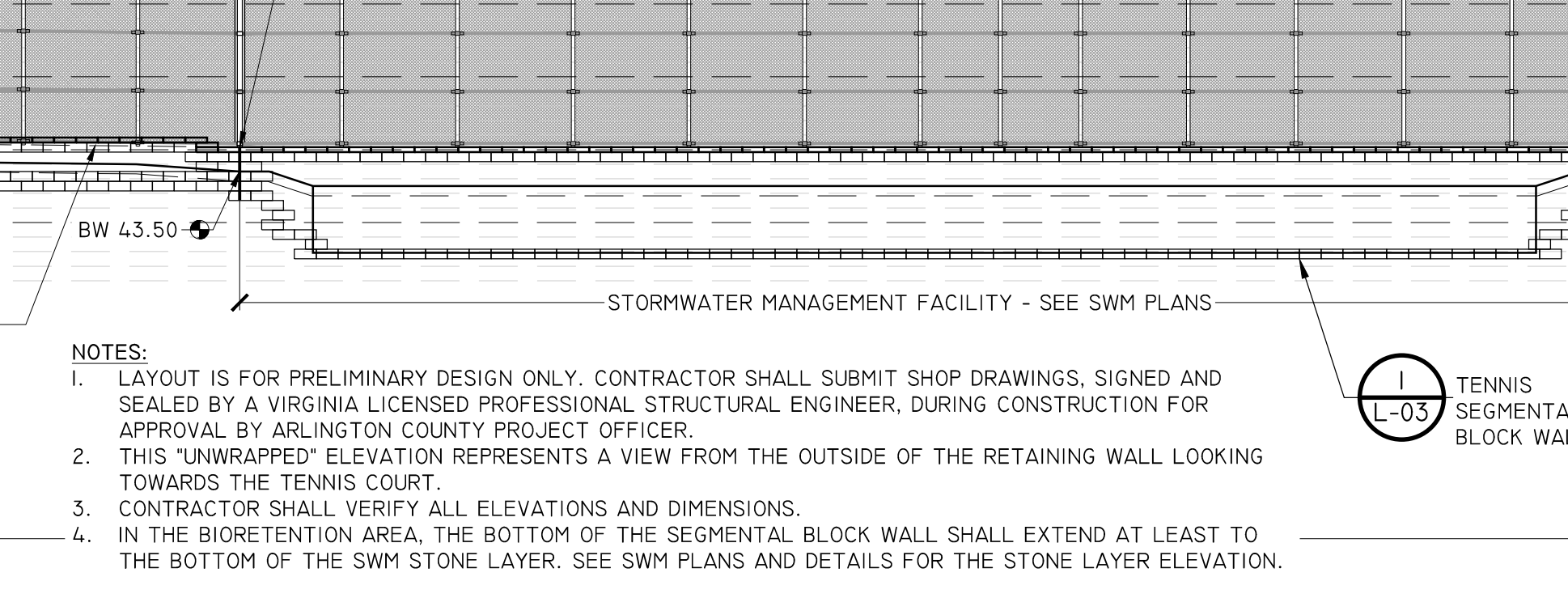
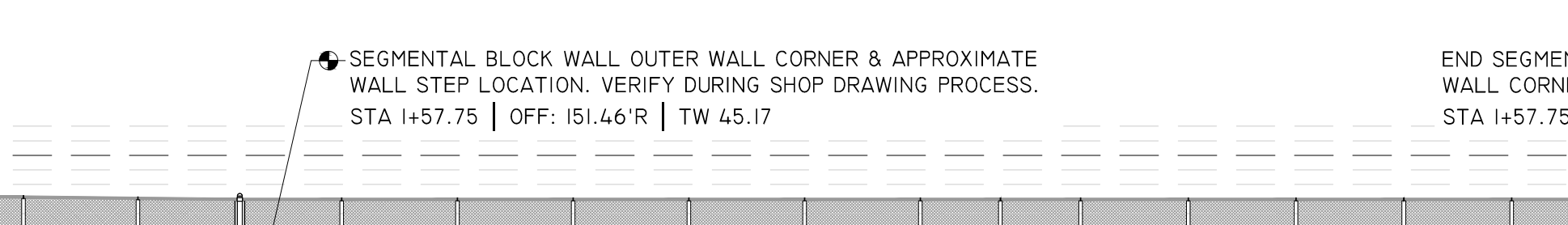
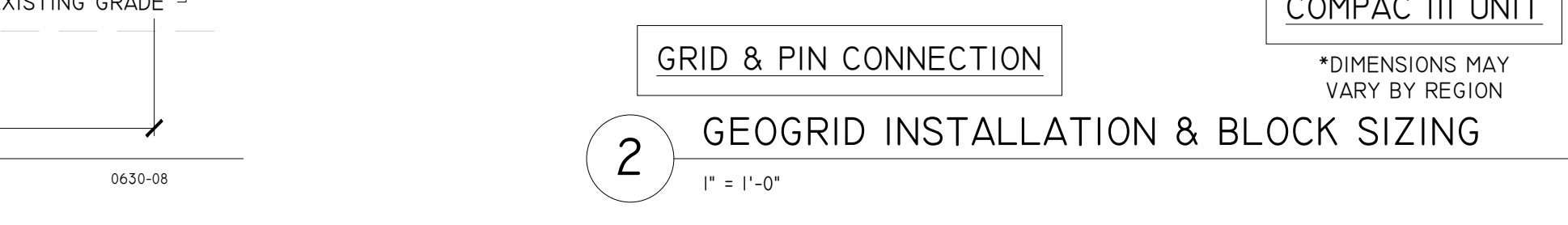
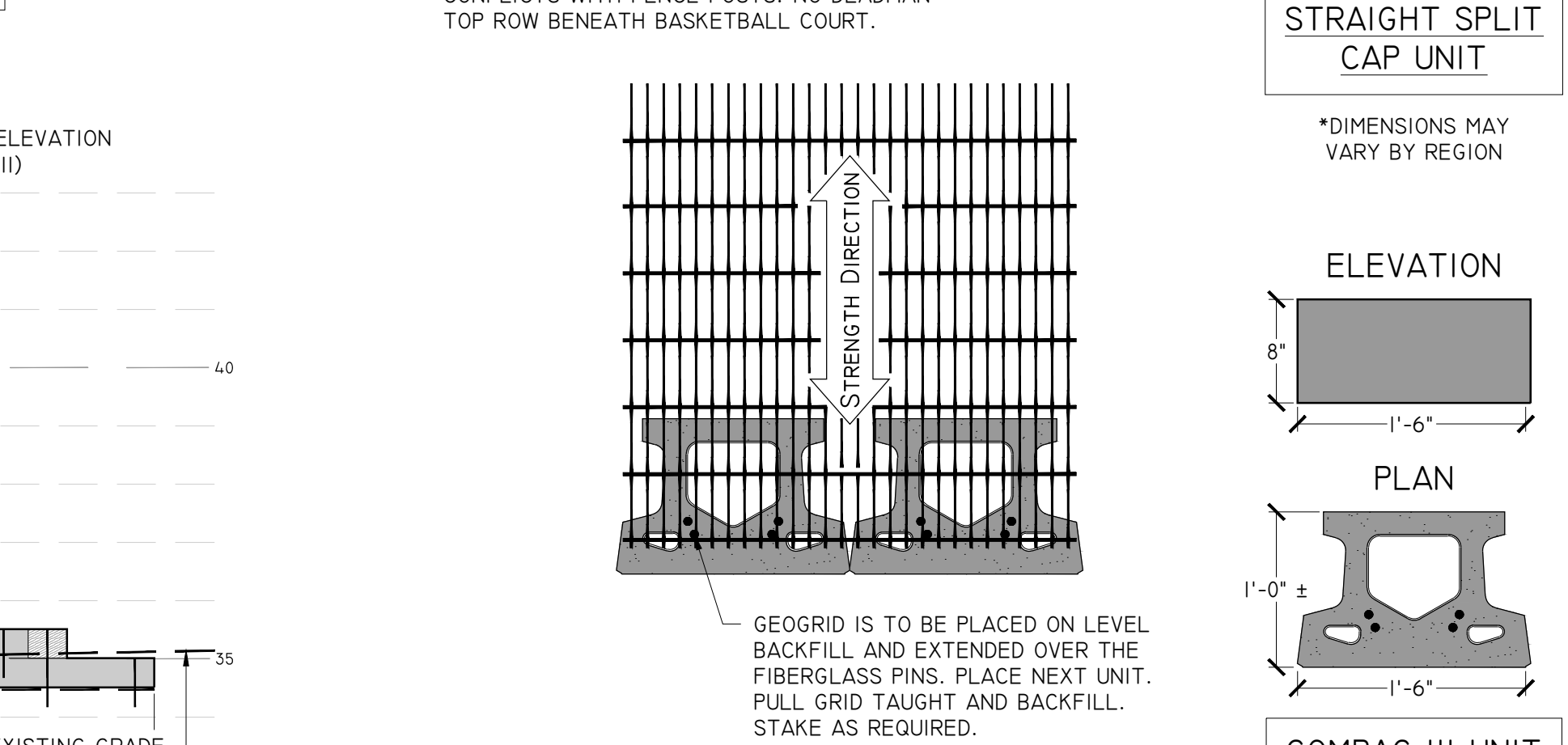
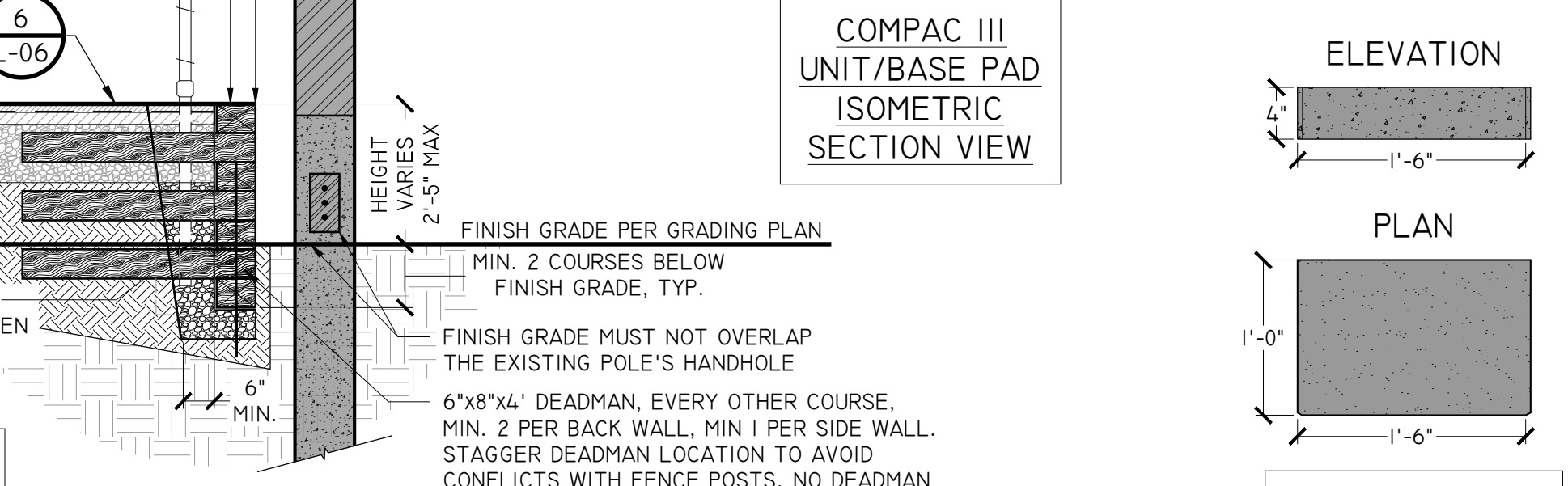
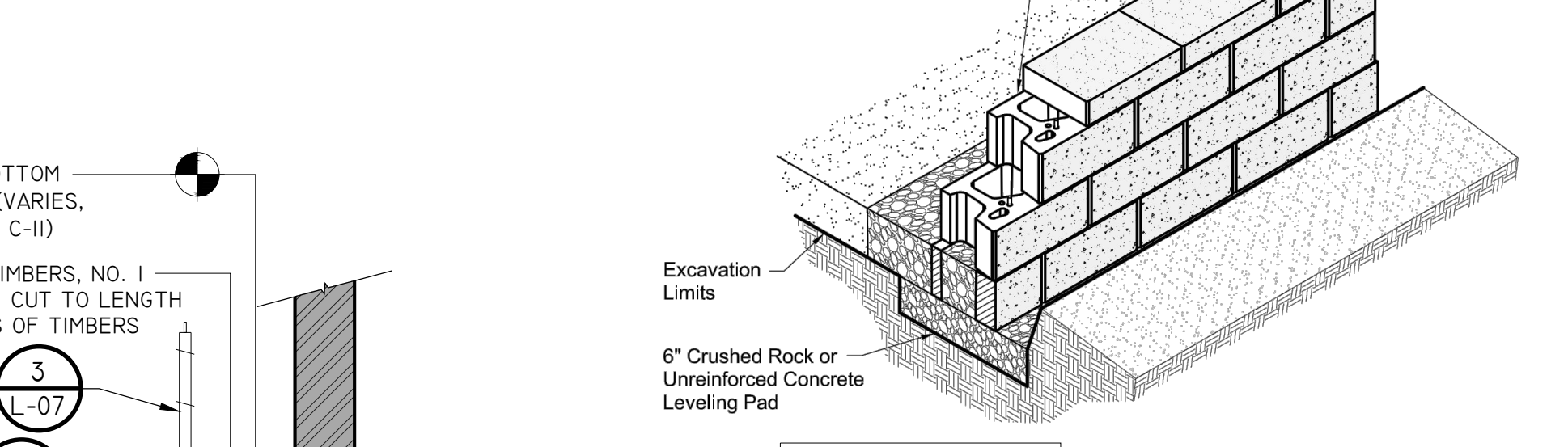
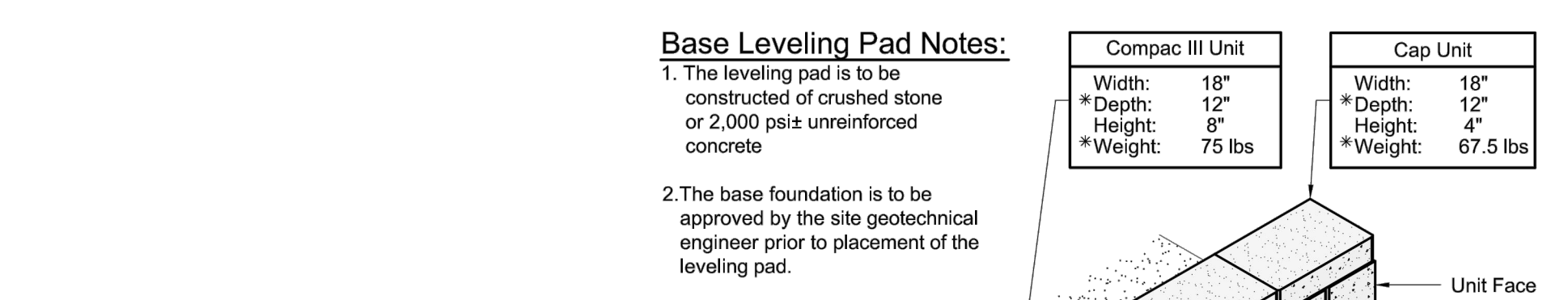
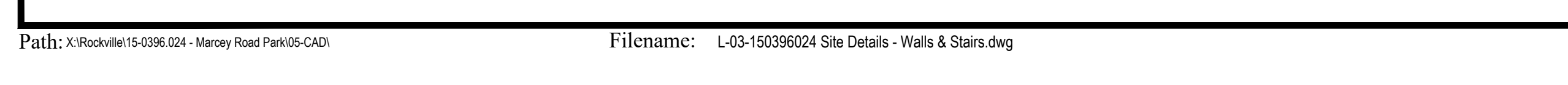
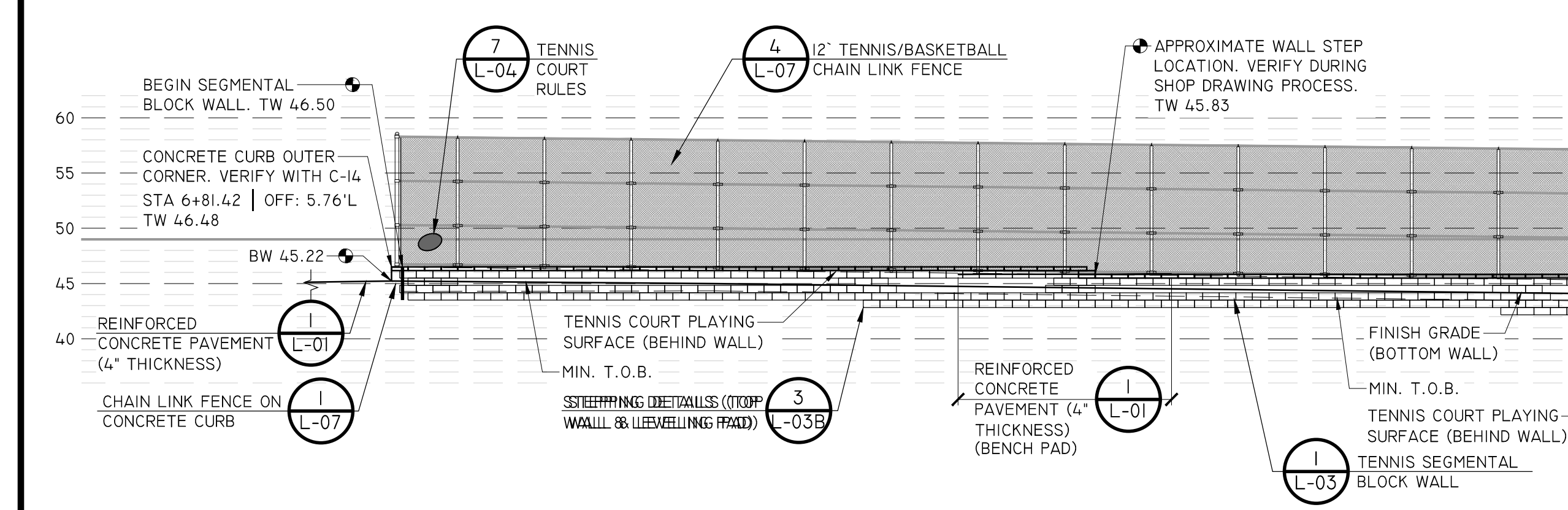
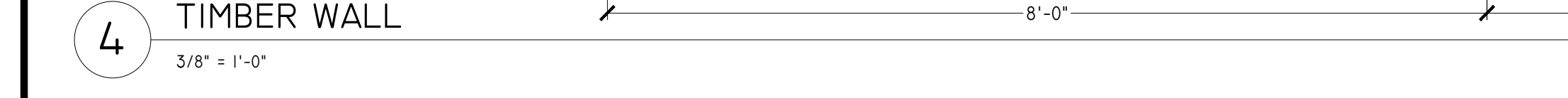
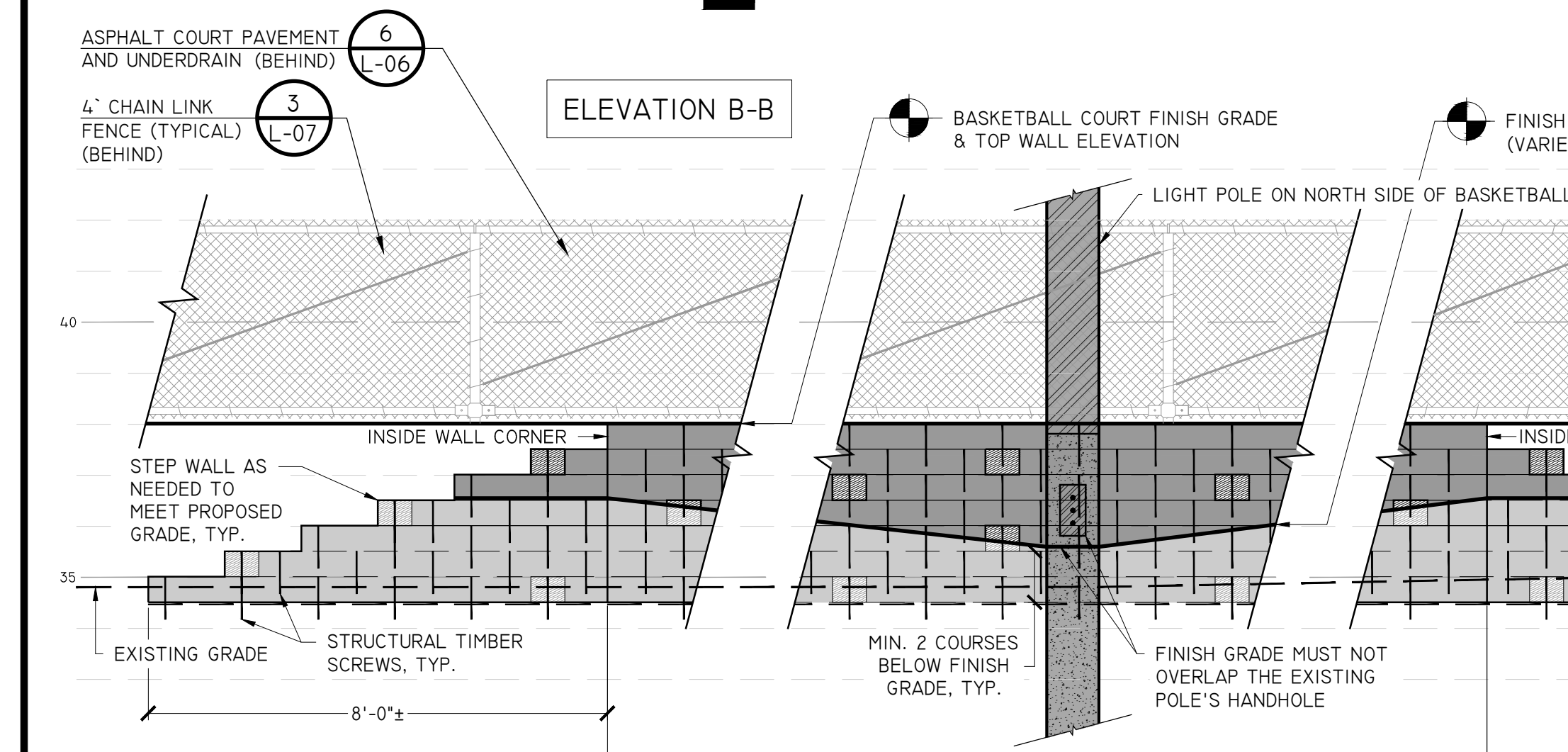
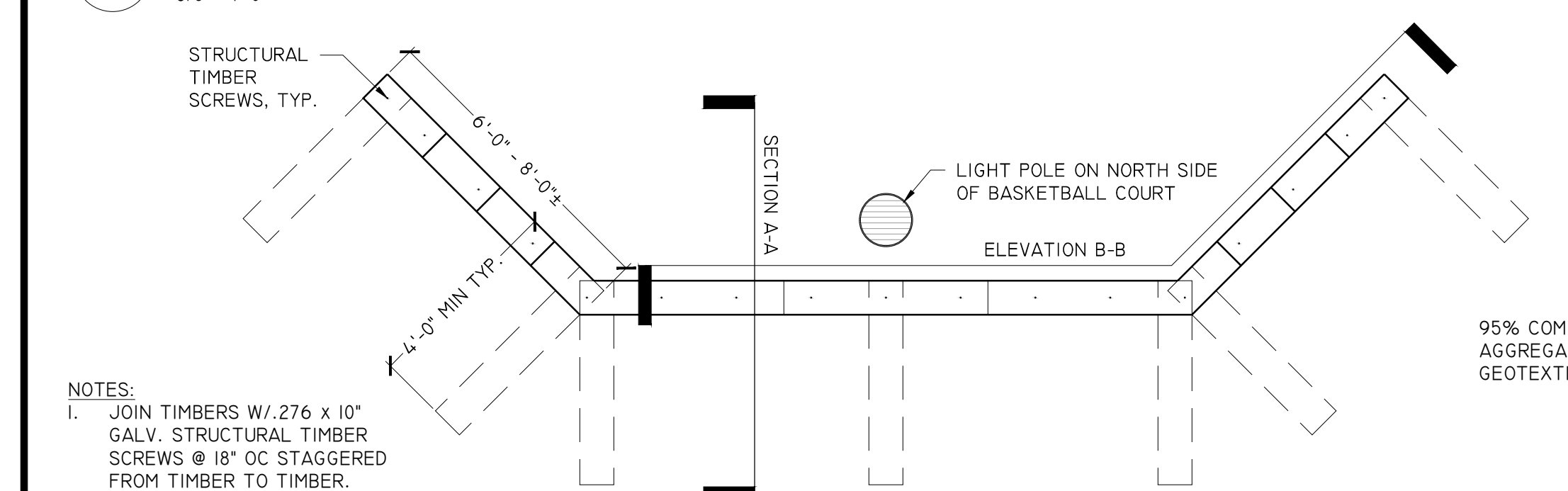
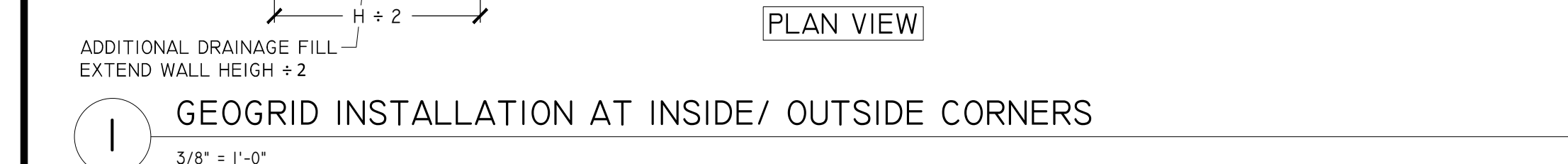
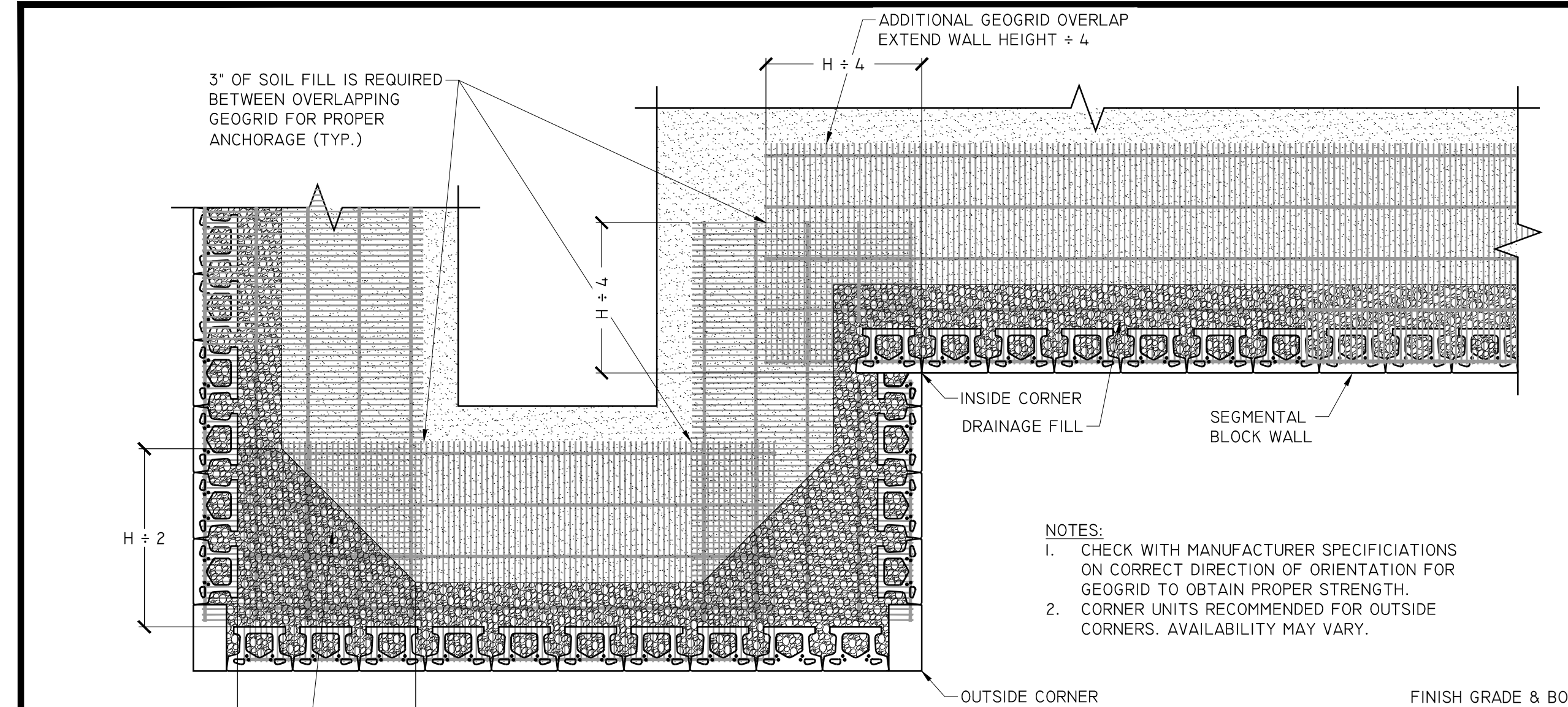


Approval	Date
Design Manager	
Revisions	Date

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: I02-150396024 site details - flatwork.dwg  
 Plotted: 2021-06-02  
 Scale: AS SHOWN  
 Date: JUNE 2, 2021

Seal  
 COMMONWEALTH OF VIRGINIA  
 MATTHEW M. WEIR  
 Cert. No. 0406001961  
 LANDSCAPE ARCHITECT  
 JUNE 2, 2021







**21-DPR-ITB-646**

Project Name and Location

**Marcey  
Road Park  
Improvements  
(By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**SITE DETAILS -  
WALLS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
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Checked: SDT, JKS, MMW, CMB

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Plotted: 2021-06-02

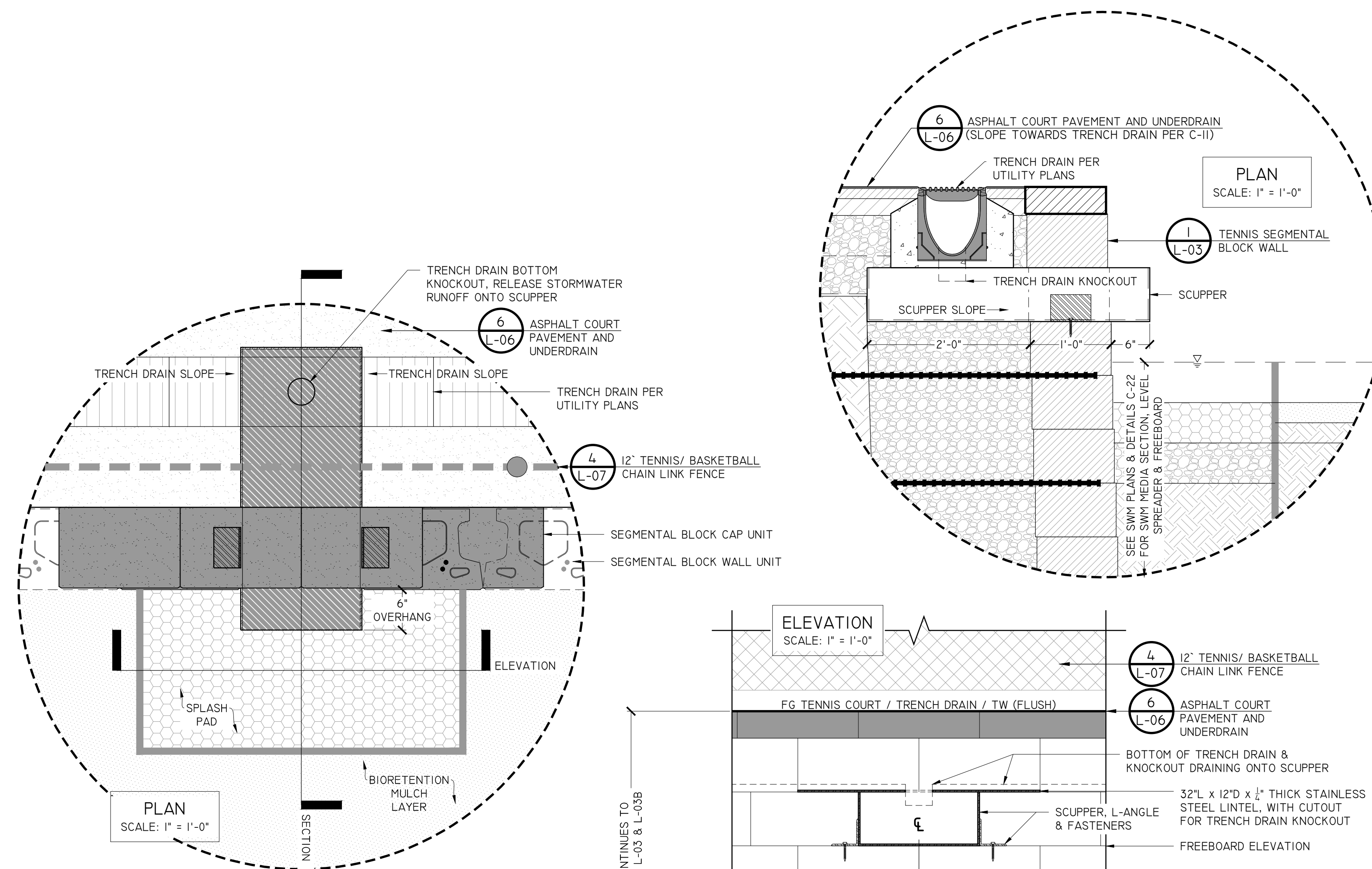
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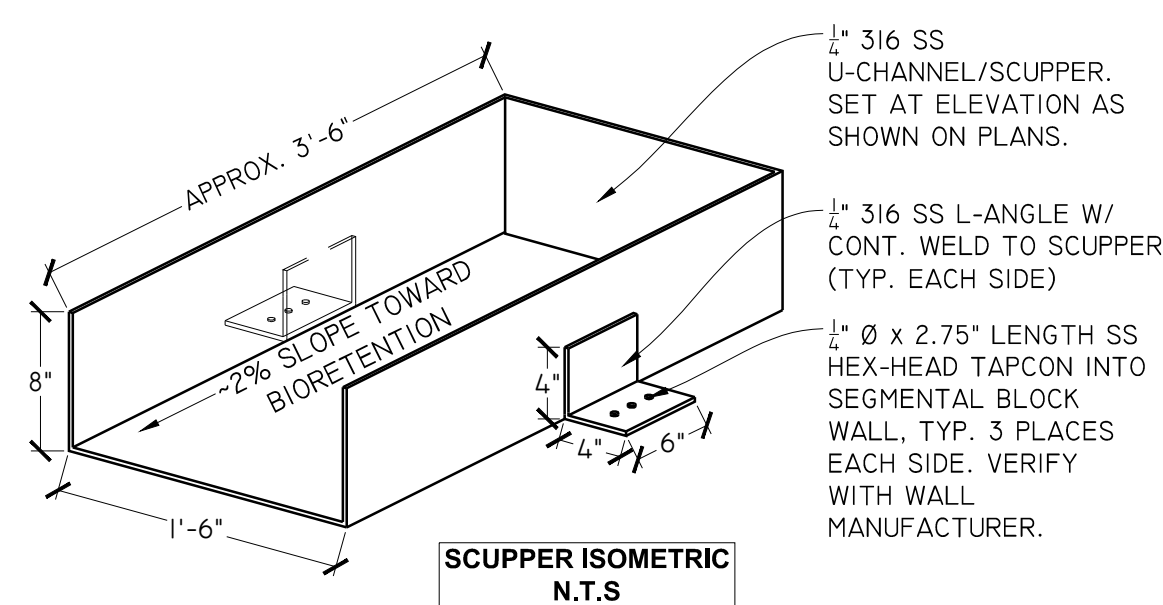


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**L-03C**

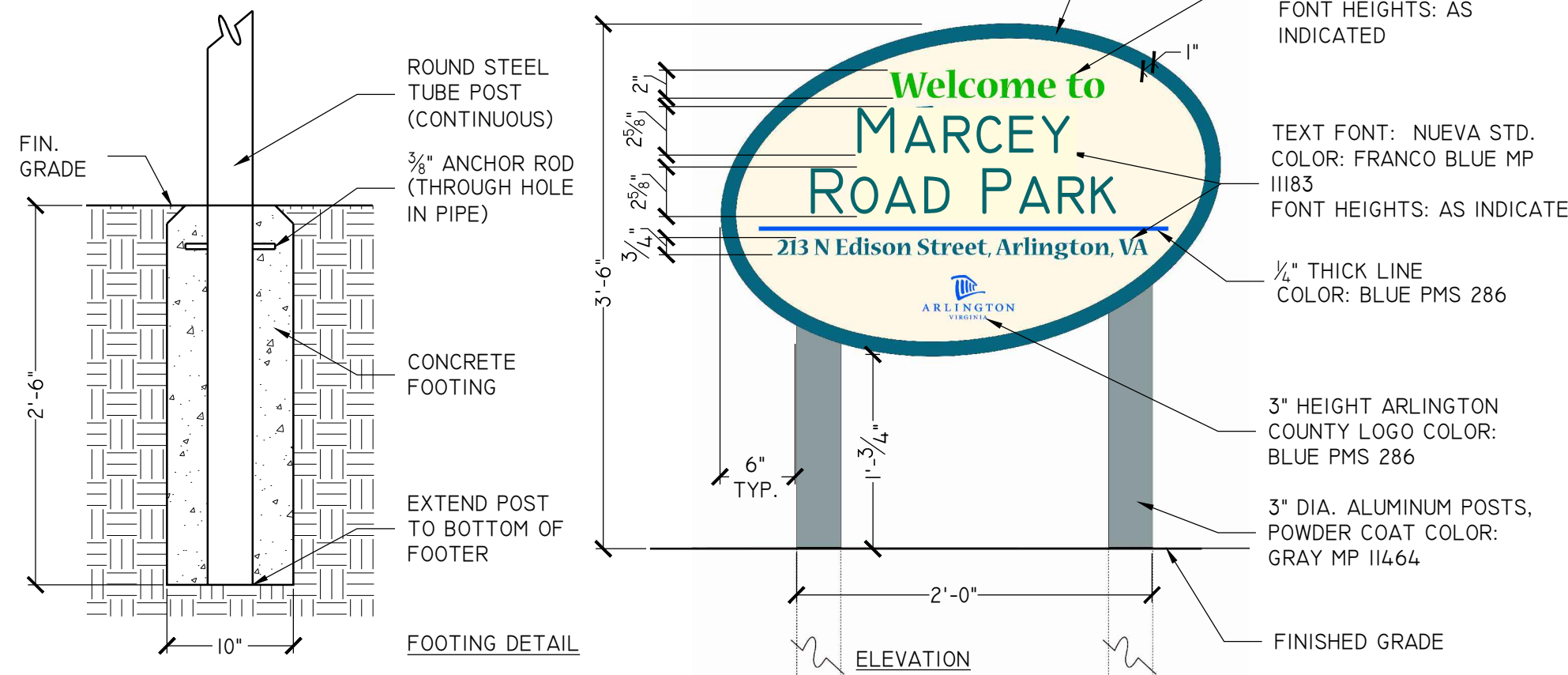


- NOTES:
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & SUBMITTALS FOR SCUPPER, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN VIRGINIA, TO ARLINGTON COUNTY PROJECT OFFICER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
  - VERIFY ALL WALL AND COURT ELEVATIONS WITH GRADING PLAN C-II. VERIFY LAYOUT & DIMENSIONS WITH SHEET C-IV.
  - SEE L-03, L-03B AND STORMWATER MANAGEMENT SHEETS (C-20-C-23) FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



**1 SCUPPER**  
1" = 1'-0"

- NOTES:
1. PROVIDE SHOP DRAWINGS PRIOR TO ANY FABRICATION.
  2. COLORS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY FABRICATION. PARK, RULES AND AGE APPROPRIATE SIGNS TO COLOR MATCH. CONFIRM PRIOR TO ANY SUBMITTALS.
  3. SEE LAYOUT PLAN FOR LOCATION.
  4. SIGNS SHALL BE FABRICATED BY ENGRAPHIX ARCHITECTURAL SIGNAGE OR APPROVED EQUAL. SEE SPECIFICATIONS.
  5. REFER TO PLAN SET FOR PARK NAME AND ADDRESS.
  6. FOR ATTACHMENT, SEE SIGN ATTACHMENT DETAIL.



**1 ENTRY SIGN**

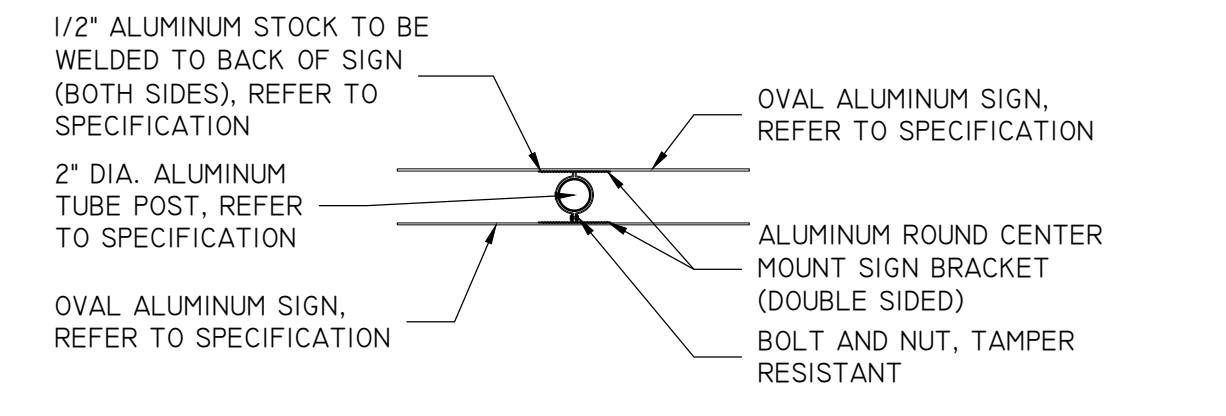
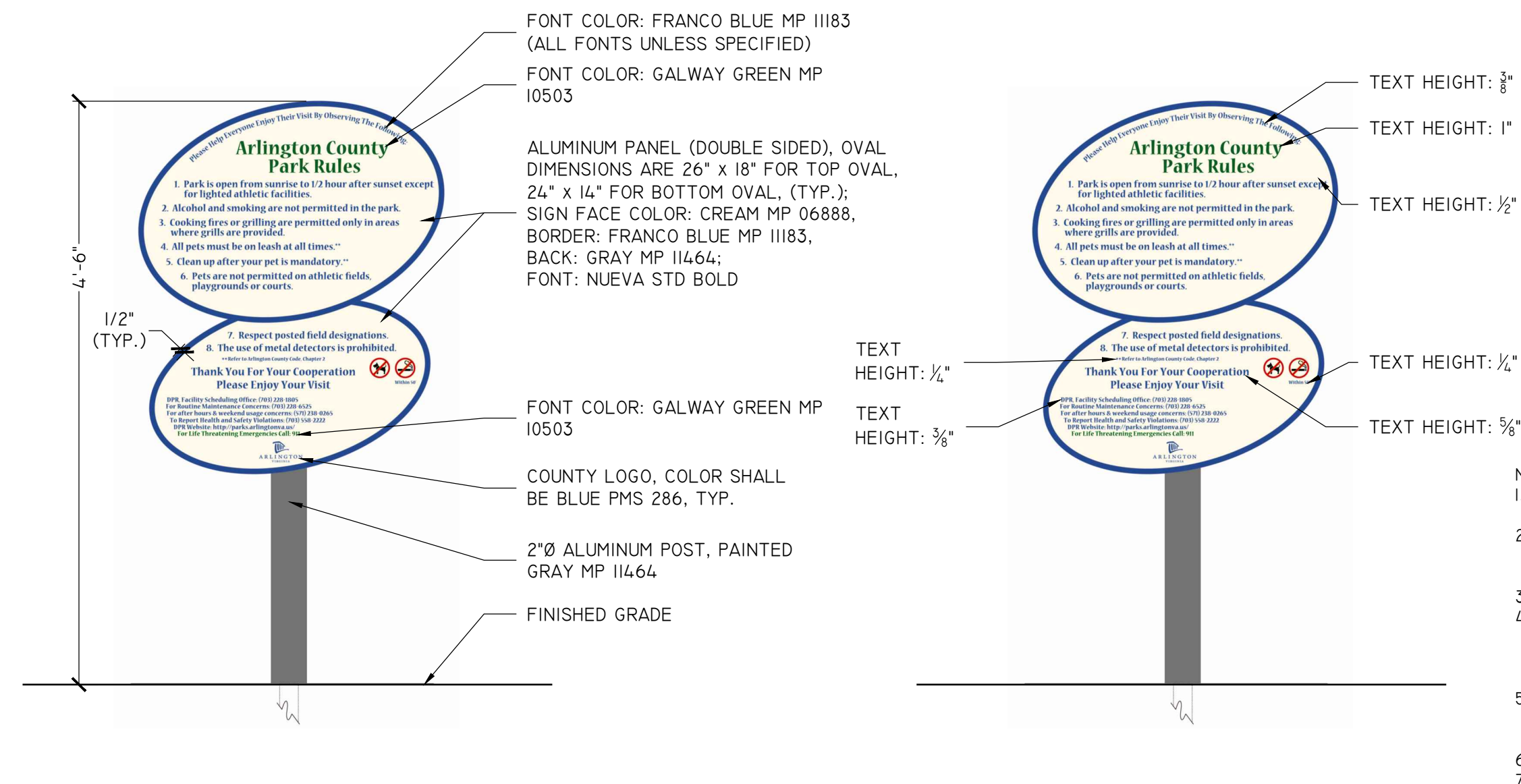
1" = 1'-0"

A-SG-12

**2 PARK RULES SIGN**

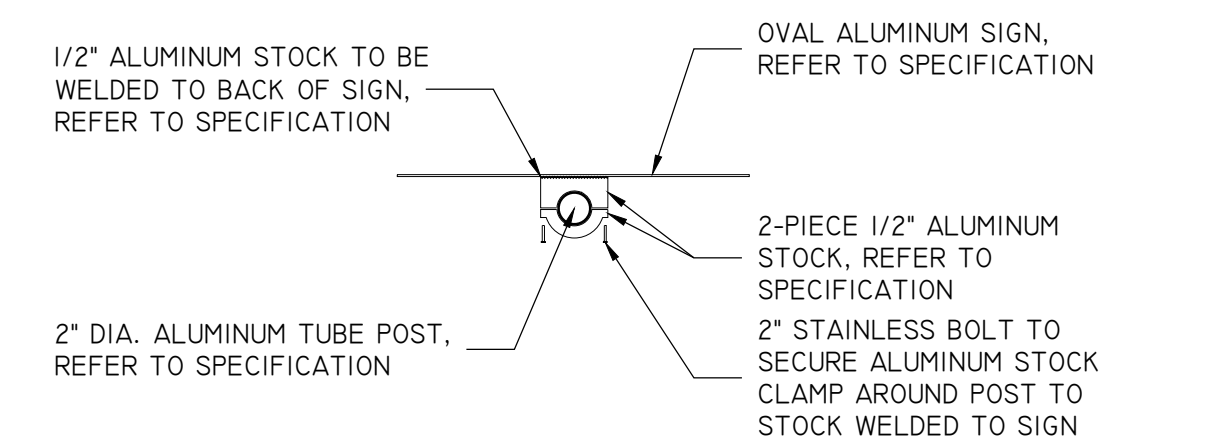
NOT TO SCALE

A-SG-14



**AGE APPROPRIATE PLAYGROUND & PARK RULES SIGNS**

- AGE APPROPRIATE PLAYGROUND, REFORESTATION, AND PARK RULES SIGN NOTES:
1. CONTRACTOR TO PROVIDE TWO POST ATTACHMENTS PER SIGN.
  2. CONTRACTOR TO PROVIDE CONSTRUCTION SUBMITTAL FOR REVIEW AND APPROVAL.



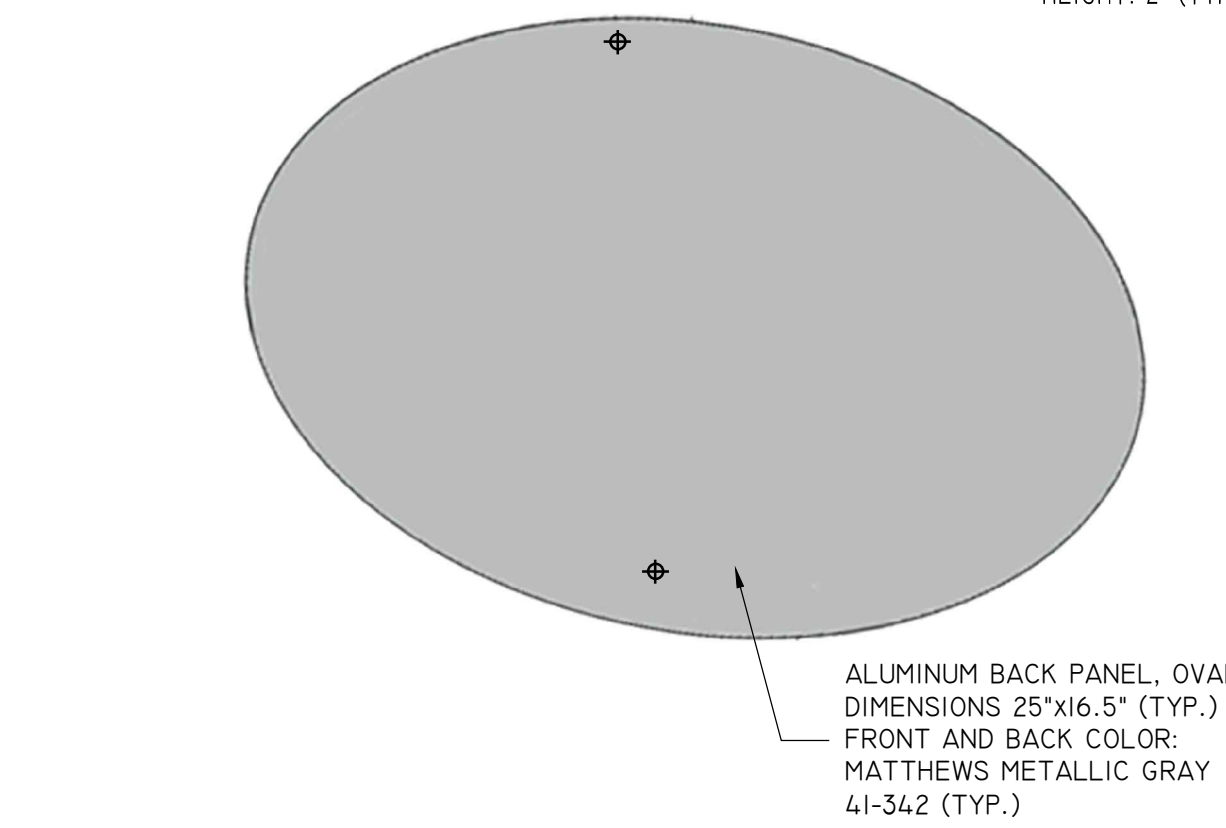
**REFORESTATION SIGNS**

**3 SIGN ATTACHMENT DETAIL**

1" = 1'-0"

A-SG-16

- NOTES:
1. PROVIDE SHOP DRAWINGS PRIOR TO ANY FABRICATION.
  2. SIGNS SHALL BE AS FABRICATED BY ENGRAPHIX ARCHITECTURAL SIGNAGE OR APPROVED EQUAL. SEE SPECIFICATIONS.
  3. CONTRACTOR TO INSTALL IN LOCATION PER ARLINGTON COUNTY LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT SHALL APPROVE FINAL LOCATION.

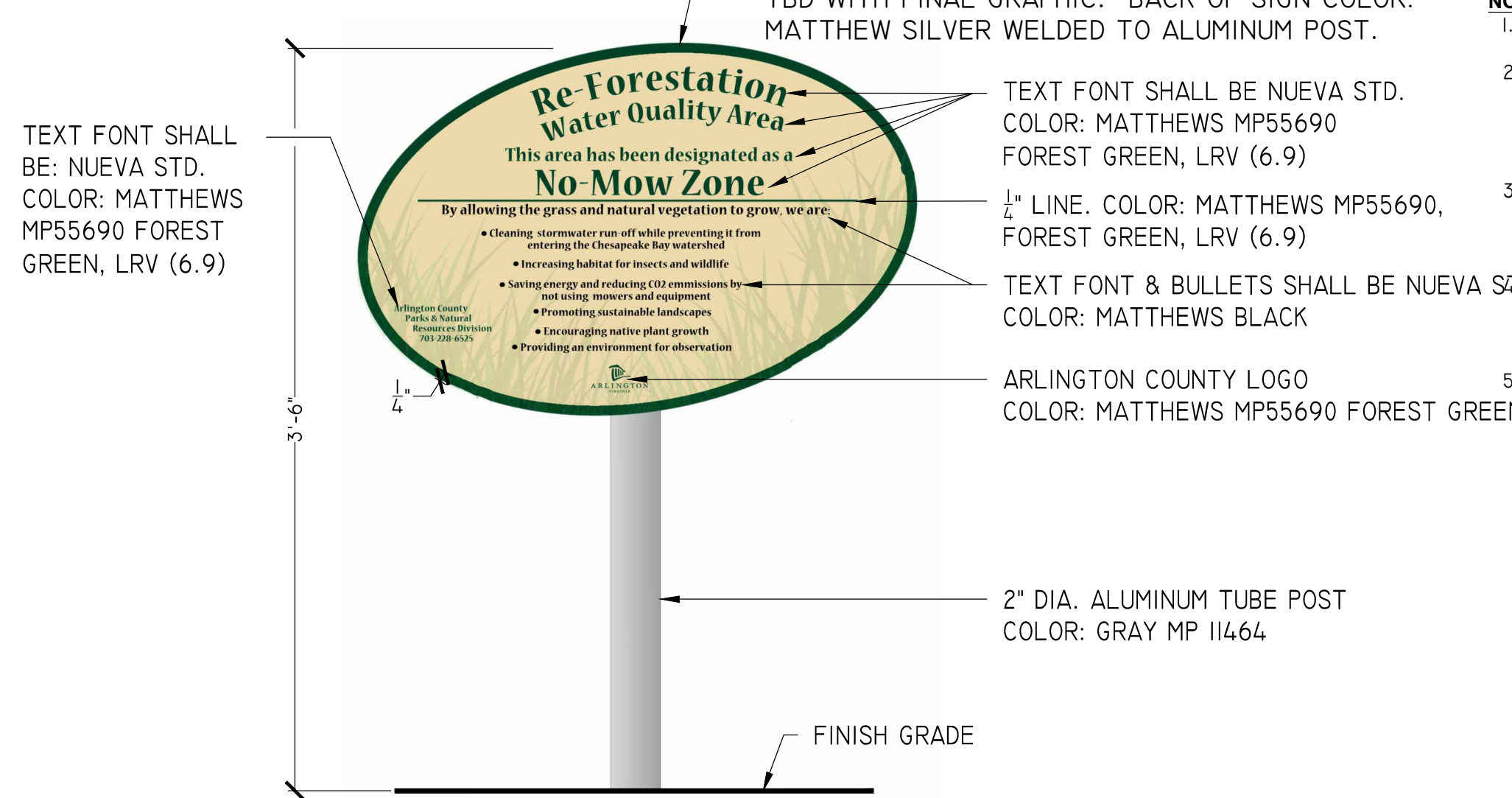


**6 COURT RULES**

NOT TO SCALE

A-68

- NOTES:
1. PROVIDE SHOP DRAWINGS PRIOR TO ANY FABRICATION.
  2. SEE DETAIL 11L-04 FOR FOOTING.
  3. CONTRACTOR TO INSTALL IN LOCATION PER ARLINGTON COUNTY LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT SHALL APPROVE FINAL LOCATION.

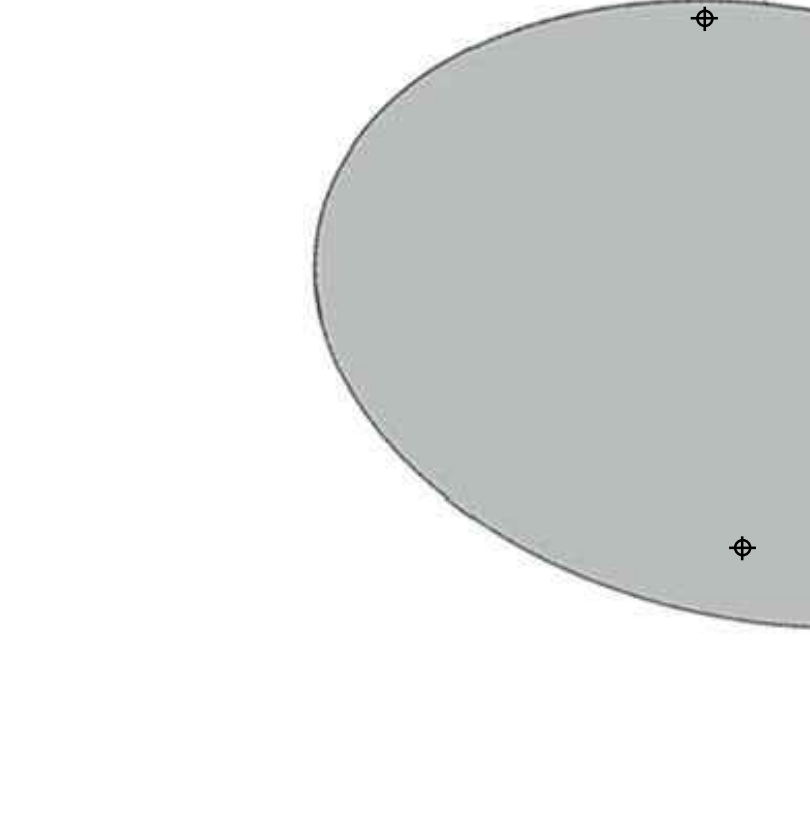


**4 REFORESTATION SIGN**

ELEVATION

SCALE: NTS

- NOTES:
1. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION. DURING SHOP DRAWING PROCESS, CONFIRM LANGUAGE WITH ARLINGTON COUNTY PRIOR TO SHOP DRAWING APPROVAL.
  2. SIGNS SHALL BE AS FABRICATED BY ENGRAPHIX ARCHITECTURAL SIGNAGE OR APPROVED EQUAL. SEE SPECIFICATIONS.
  3. CONTRACTOR TO INSTALL IN LOCATION PER ARLINGTON COUNTY LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT SHALL APPROVE FINAL LOCATION.



**7 TENNIS COURT RULES**

NOT TO SCALE

**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**SITE DETAILS - SIGNAGE**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

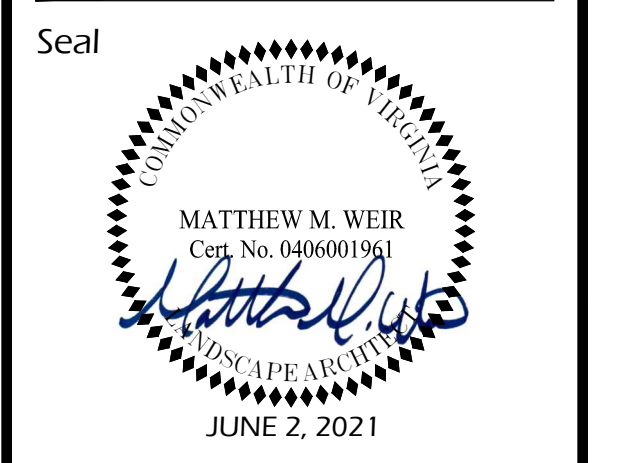
Revisions \_\_\_\_\_ Date \_\_\_\_\_

20101-21

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MWM, CMB

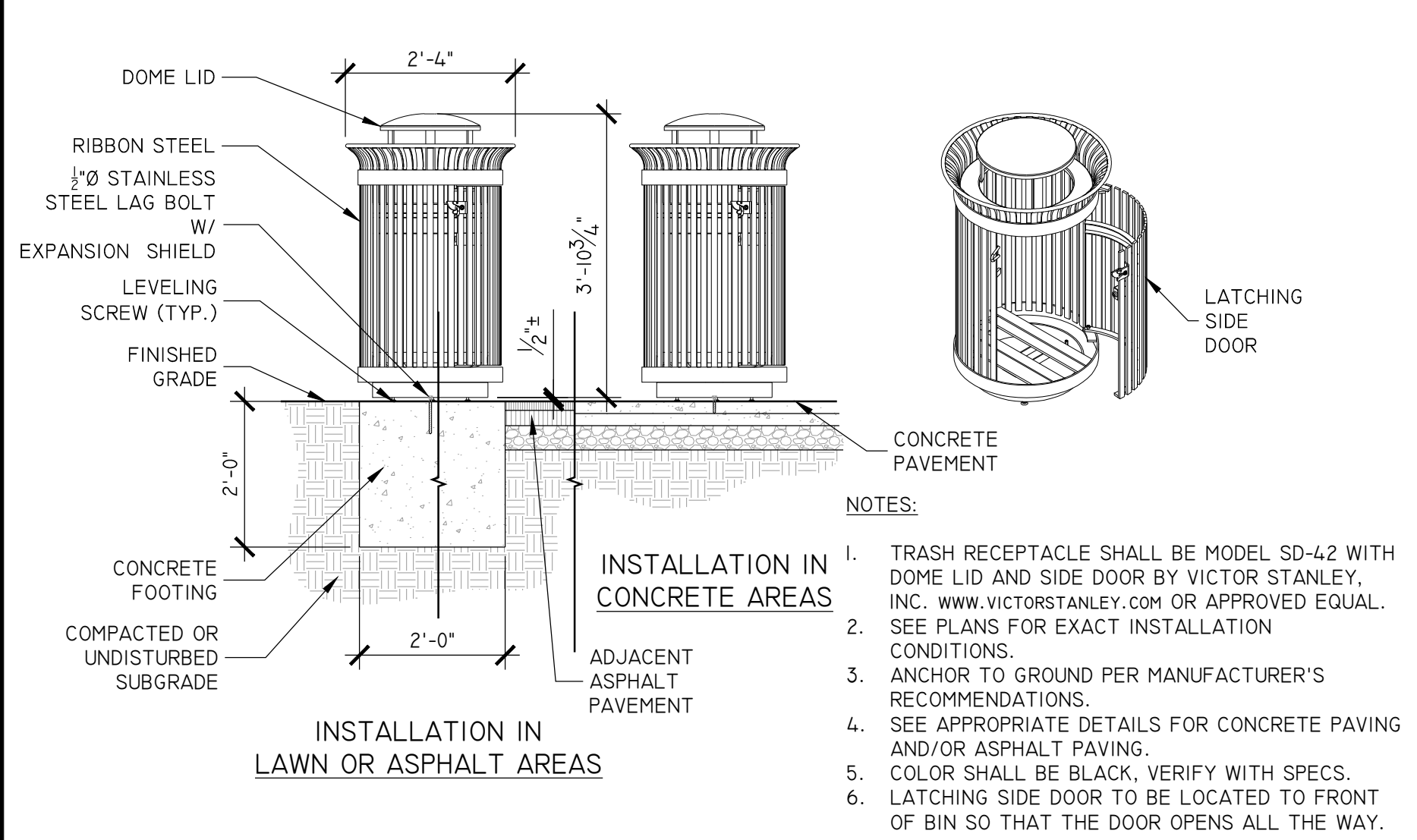
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Plotted: 2021-06-02

Scale: AS SHOWN  
Date: JUNE 2, 2021

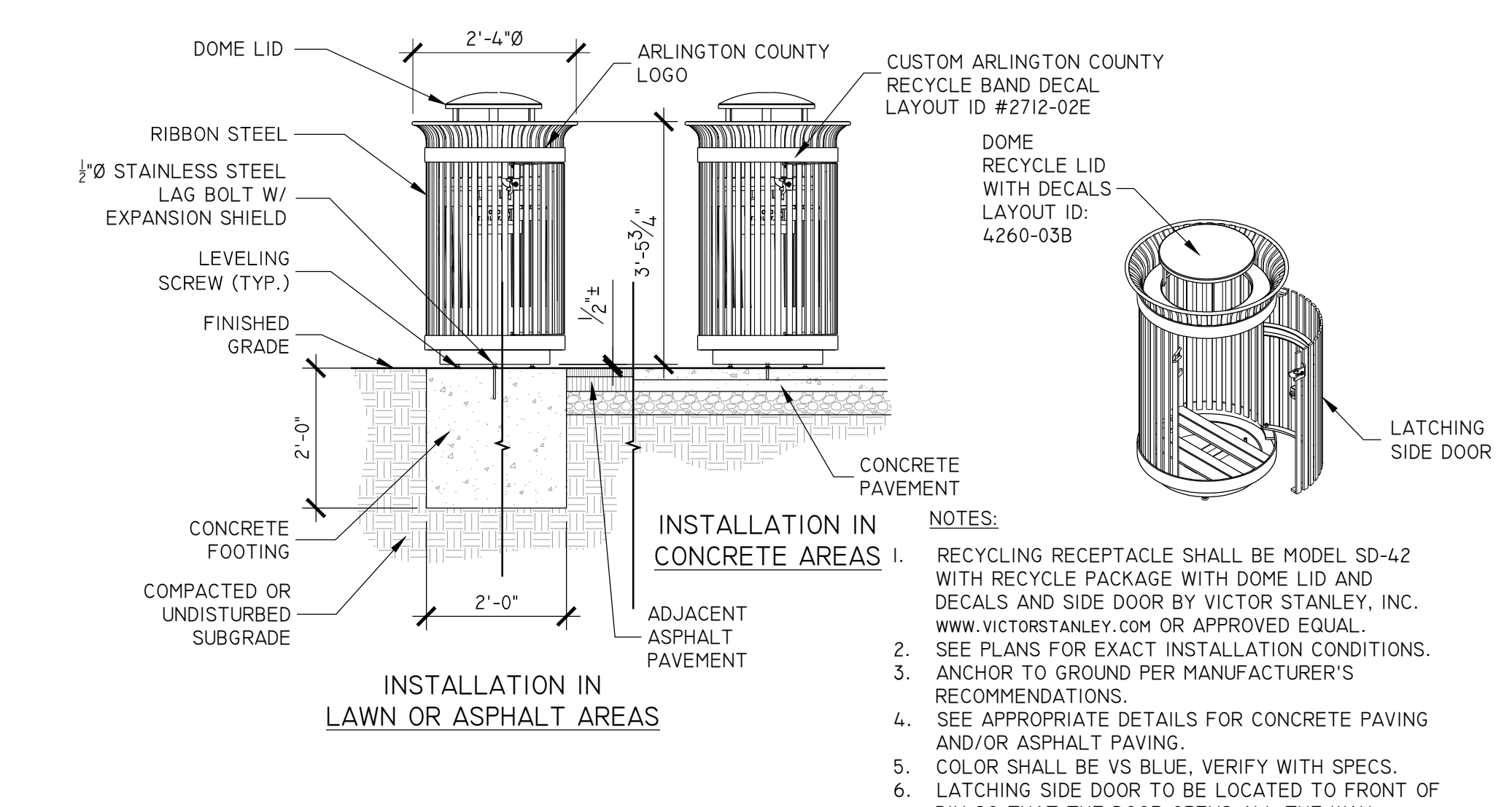


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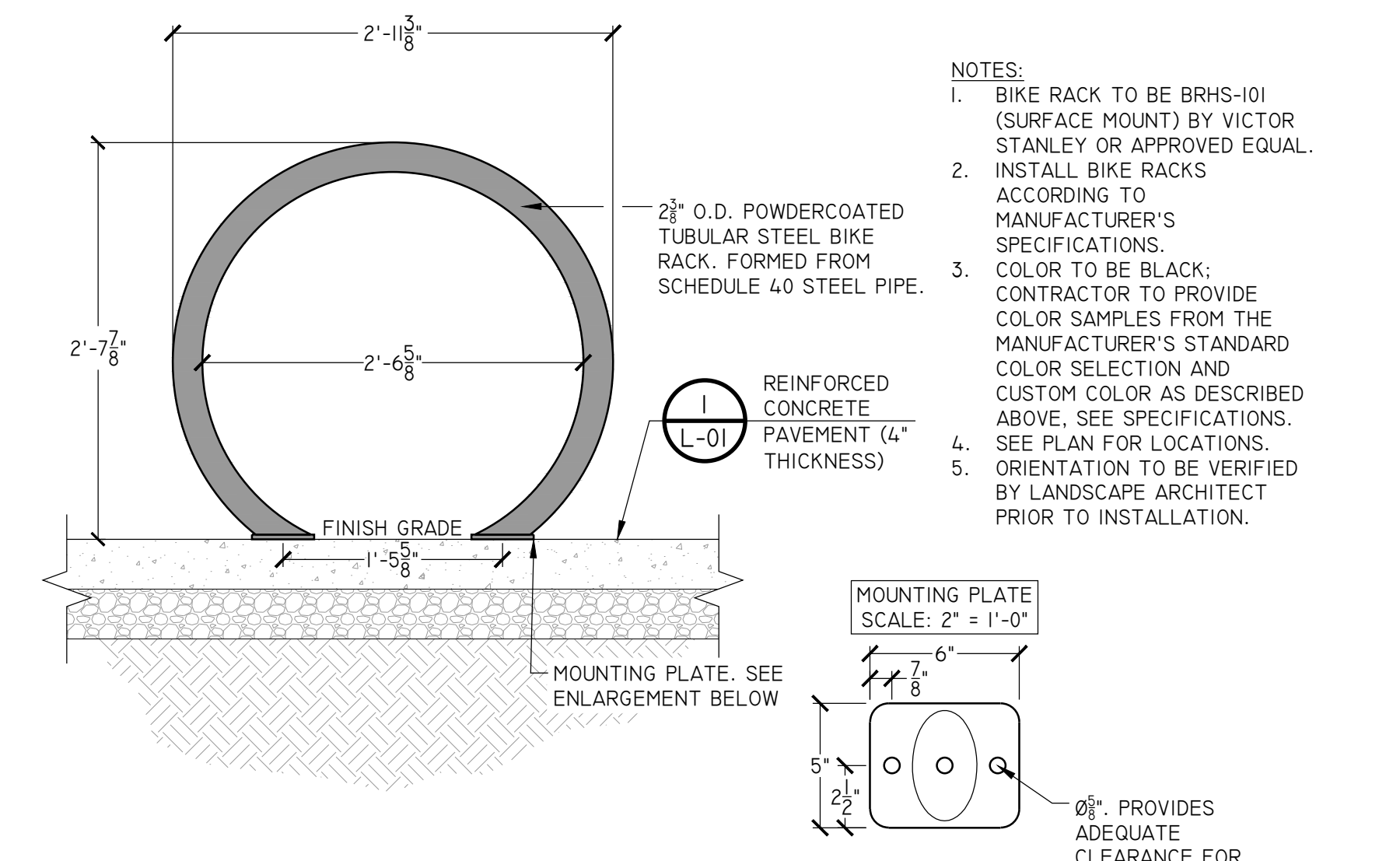
**L-04**



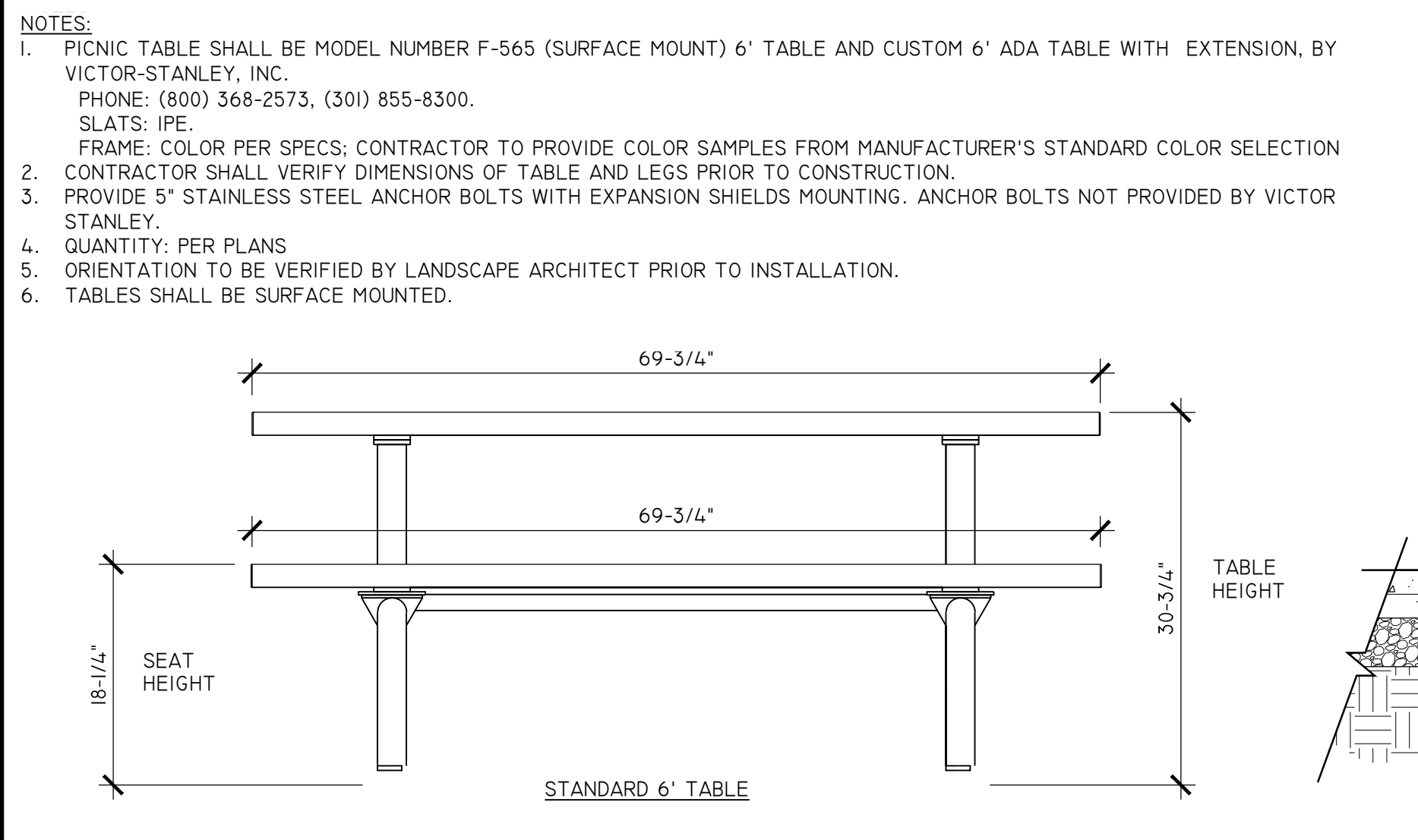
**1 TRASH RECEPTACLE**  
 129300.5 (2018) 1/2" = 1'-0"



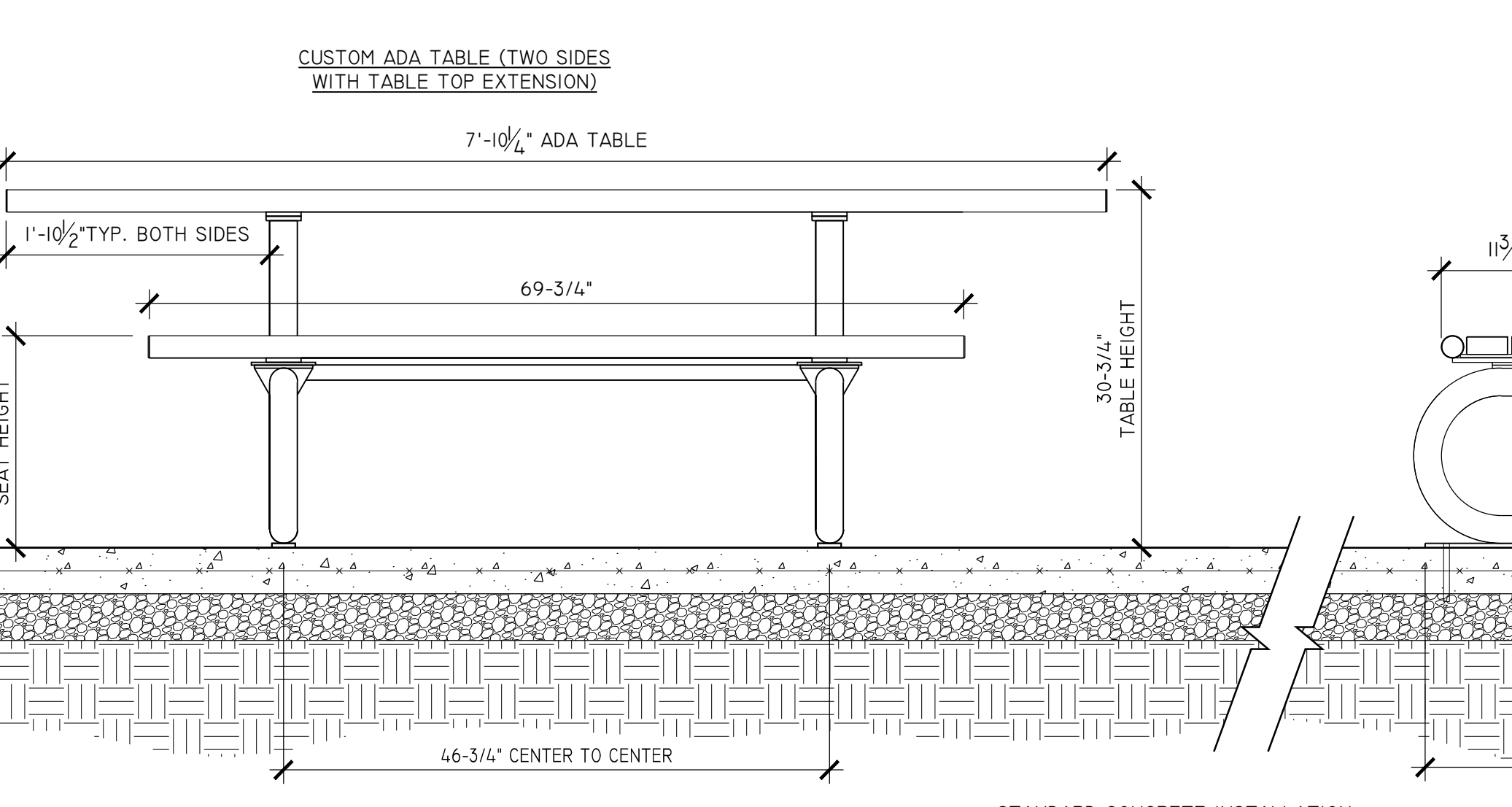
**2 RECYCLING RECEPTACLE**  
 129300.6 (2018) 1/2" = 1'-0"



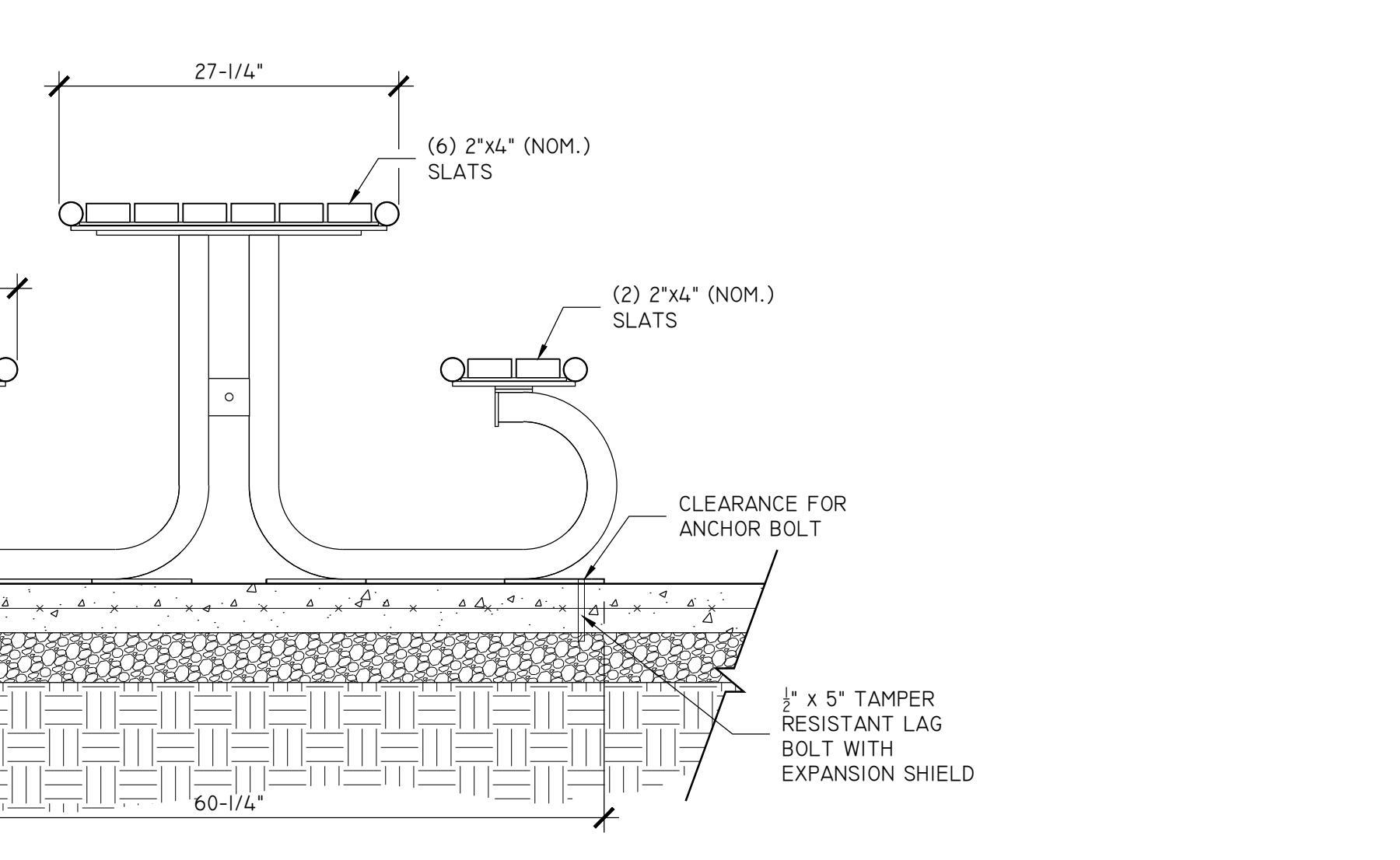
**3 BIKE RACK (SURFACE MOUNT)**  
 129300



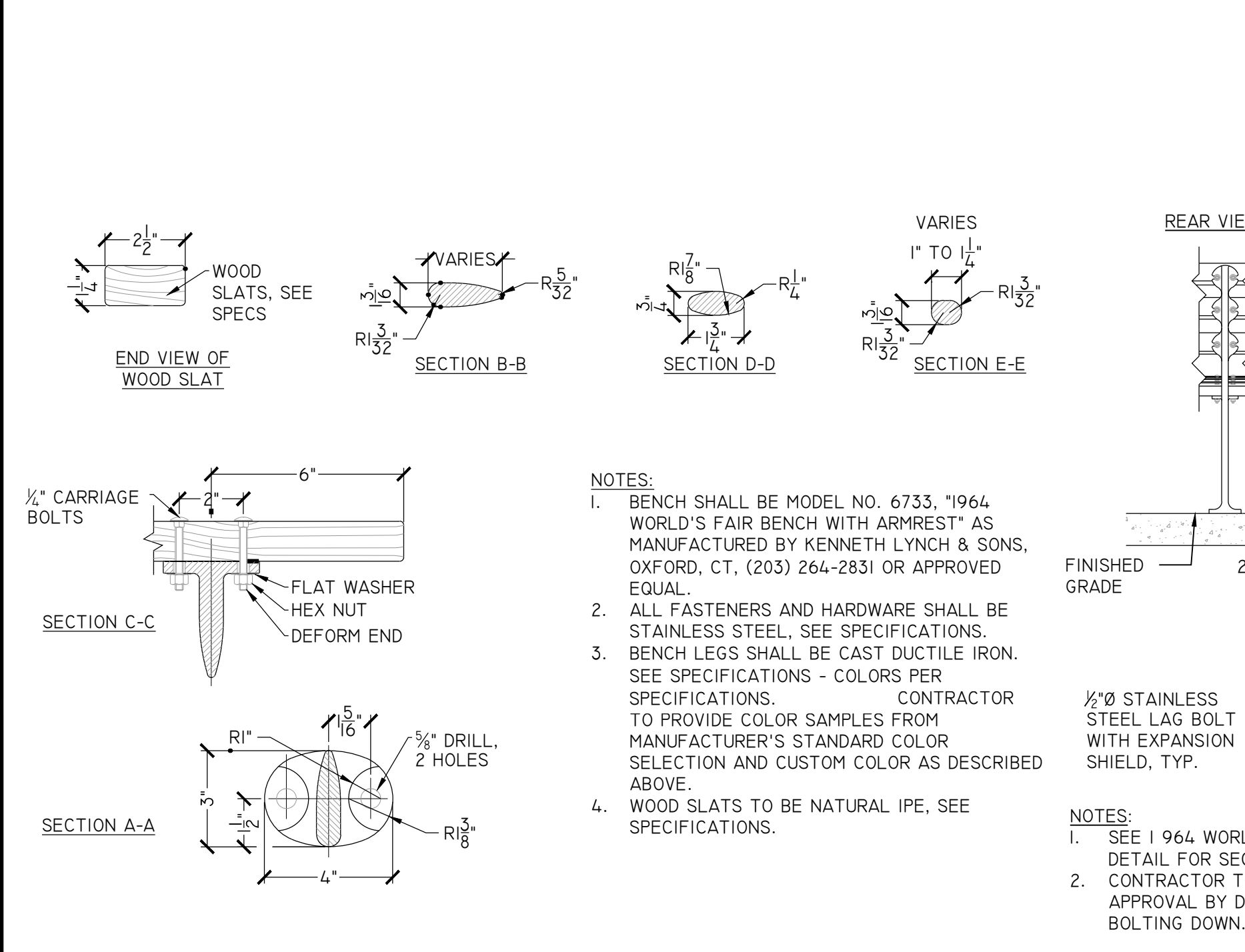
**4 PICNIC TABLE**



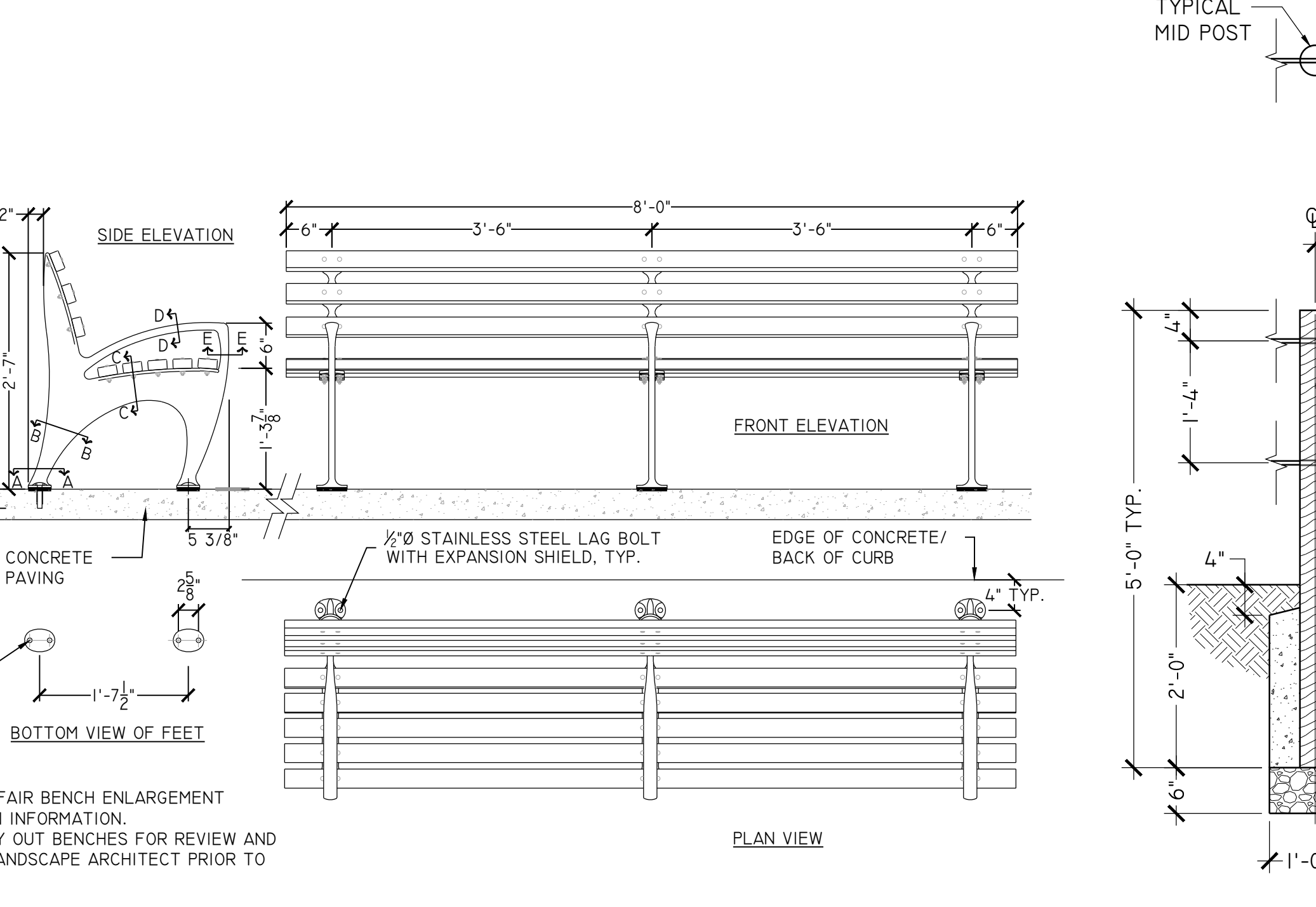
**5 1964 WORLD'S FAIR BENCH ENLARGEMENTS**  
 3" = 1'-0"



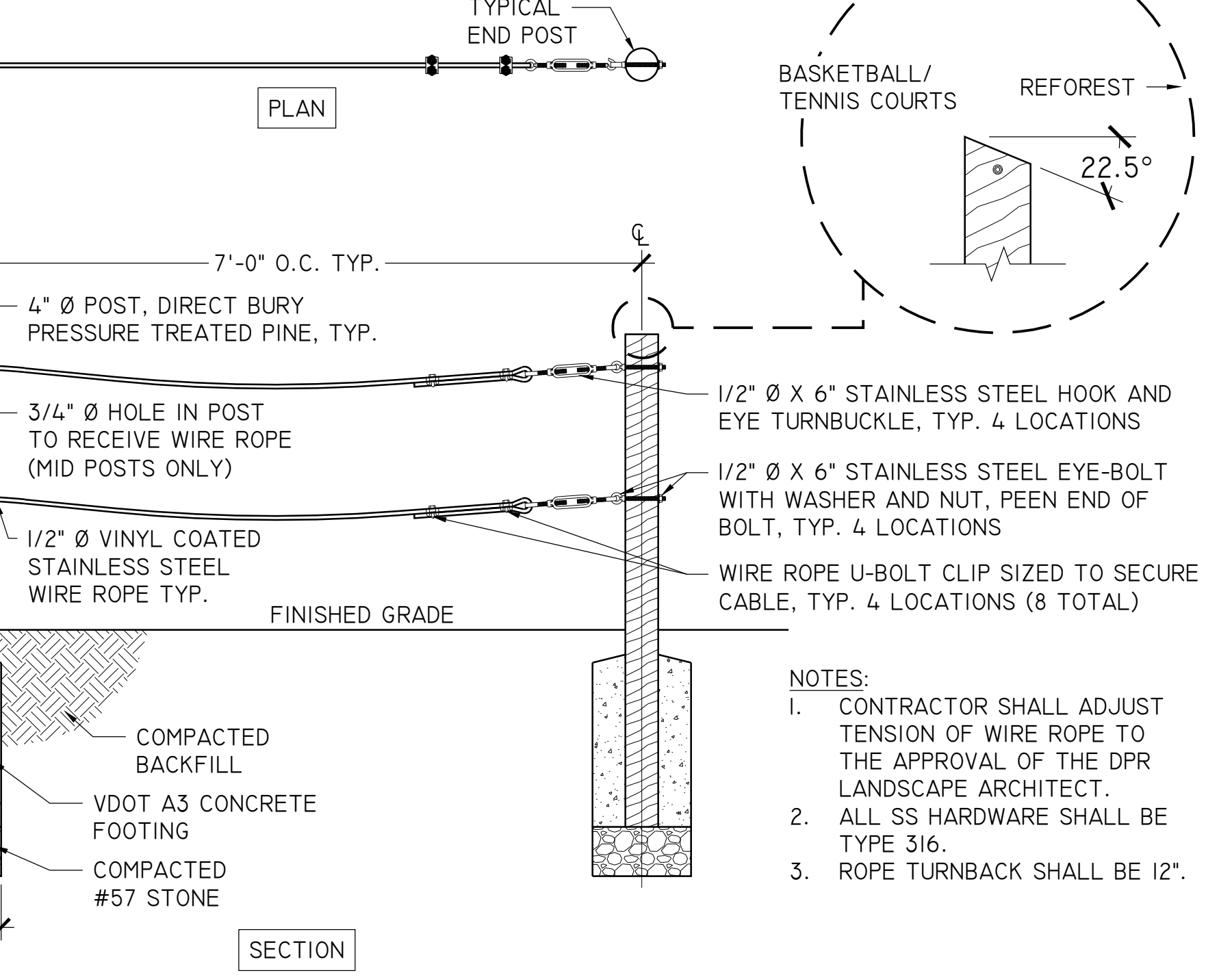
**6 1964 WORLD'S FAIR BENCH**  
 3/4" = 1'-0"



**7 REFORESTATION FENCE (WIRE ROPE)**  
 3/4" = 1'-0"



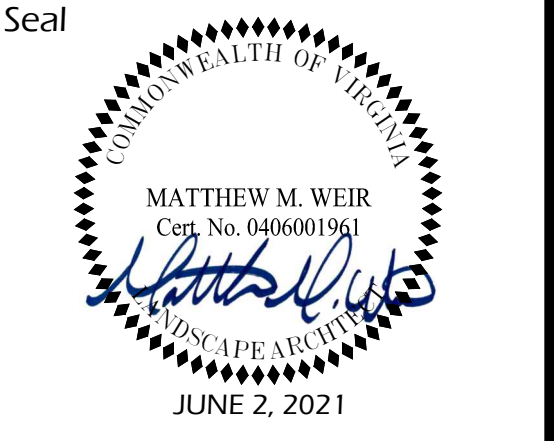
**8 BASKETBALL/TENNIS COURTS REFOREST**  
 22.5°

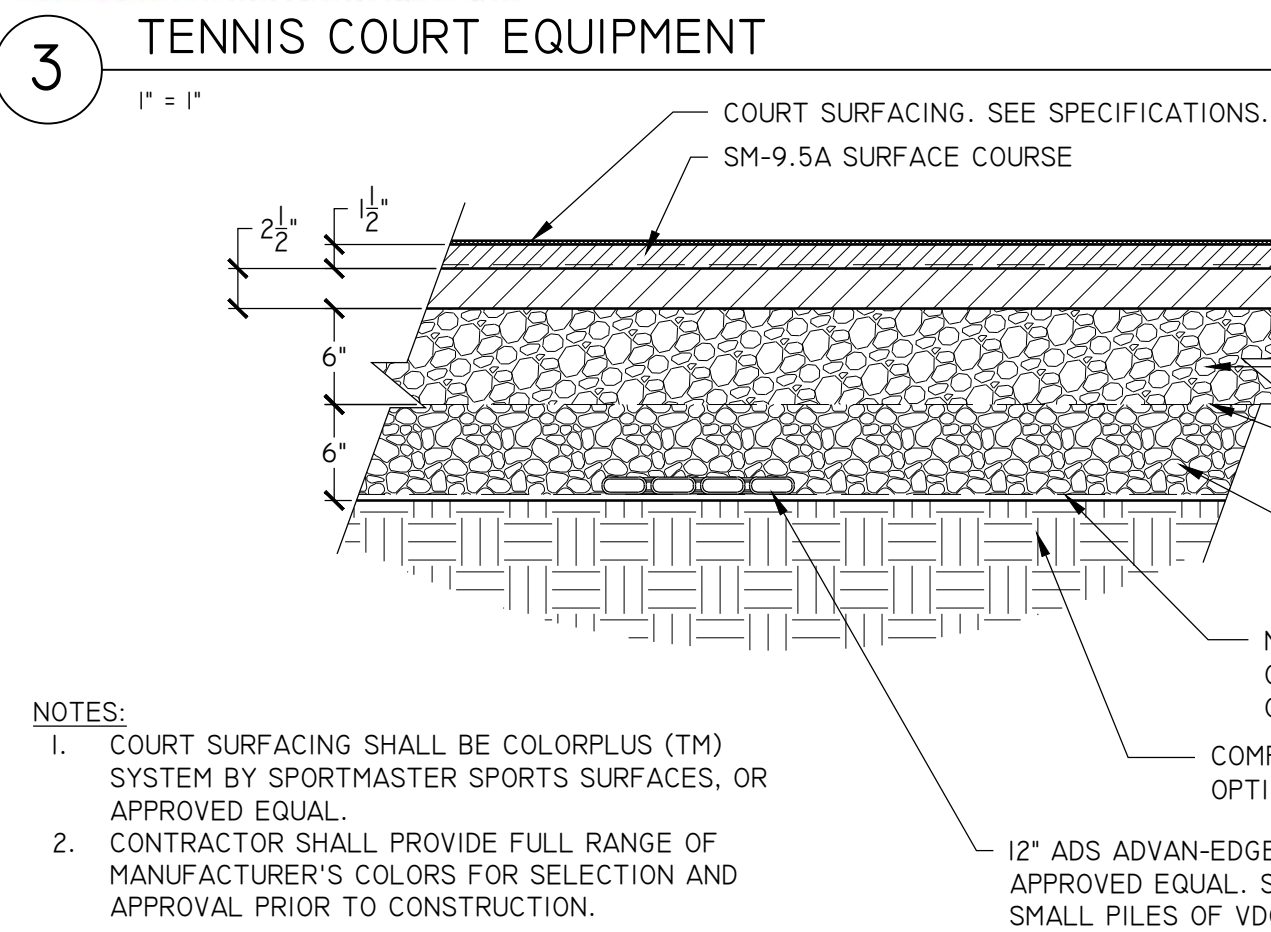
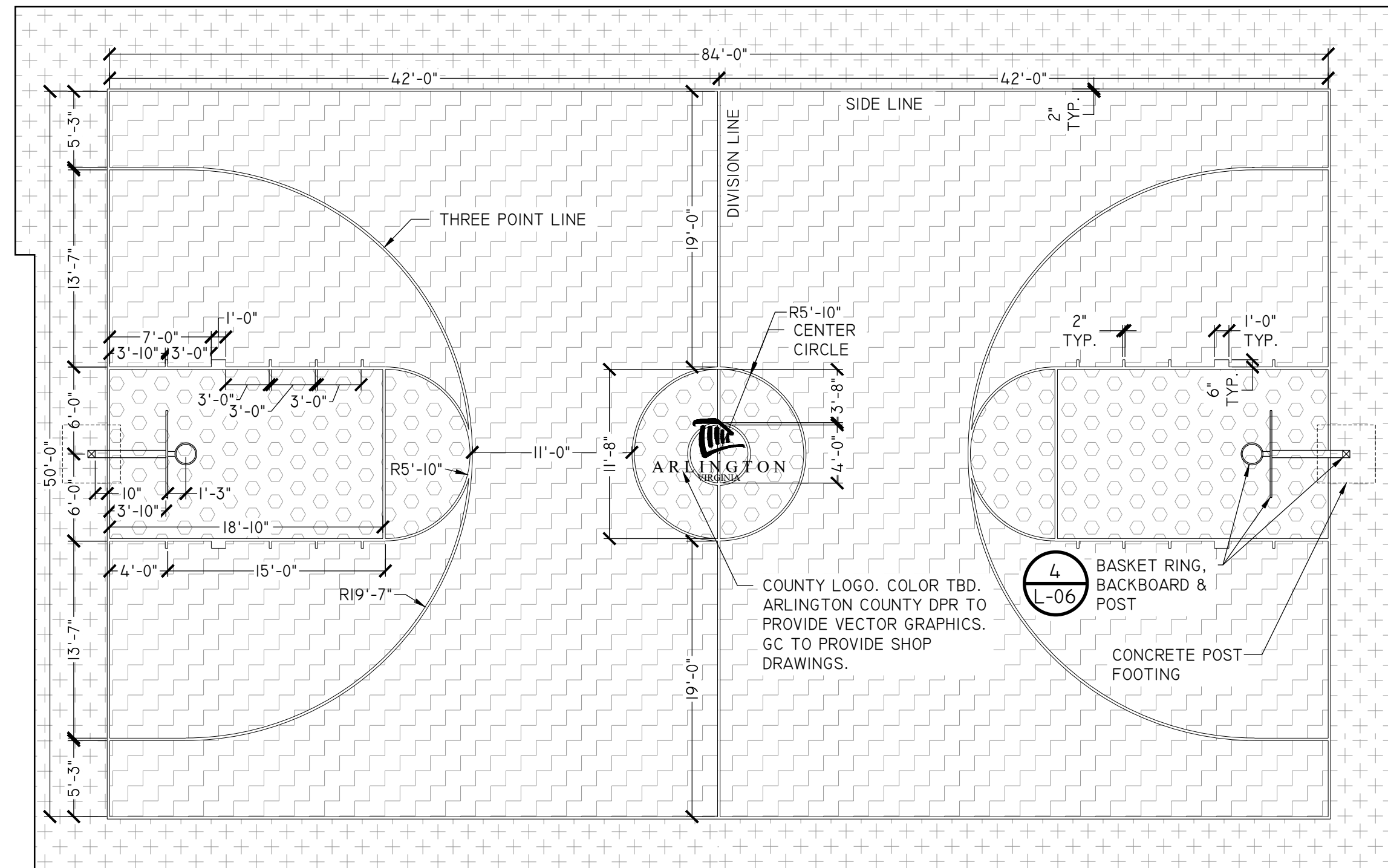
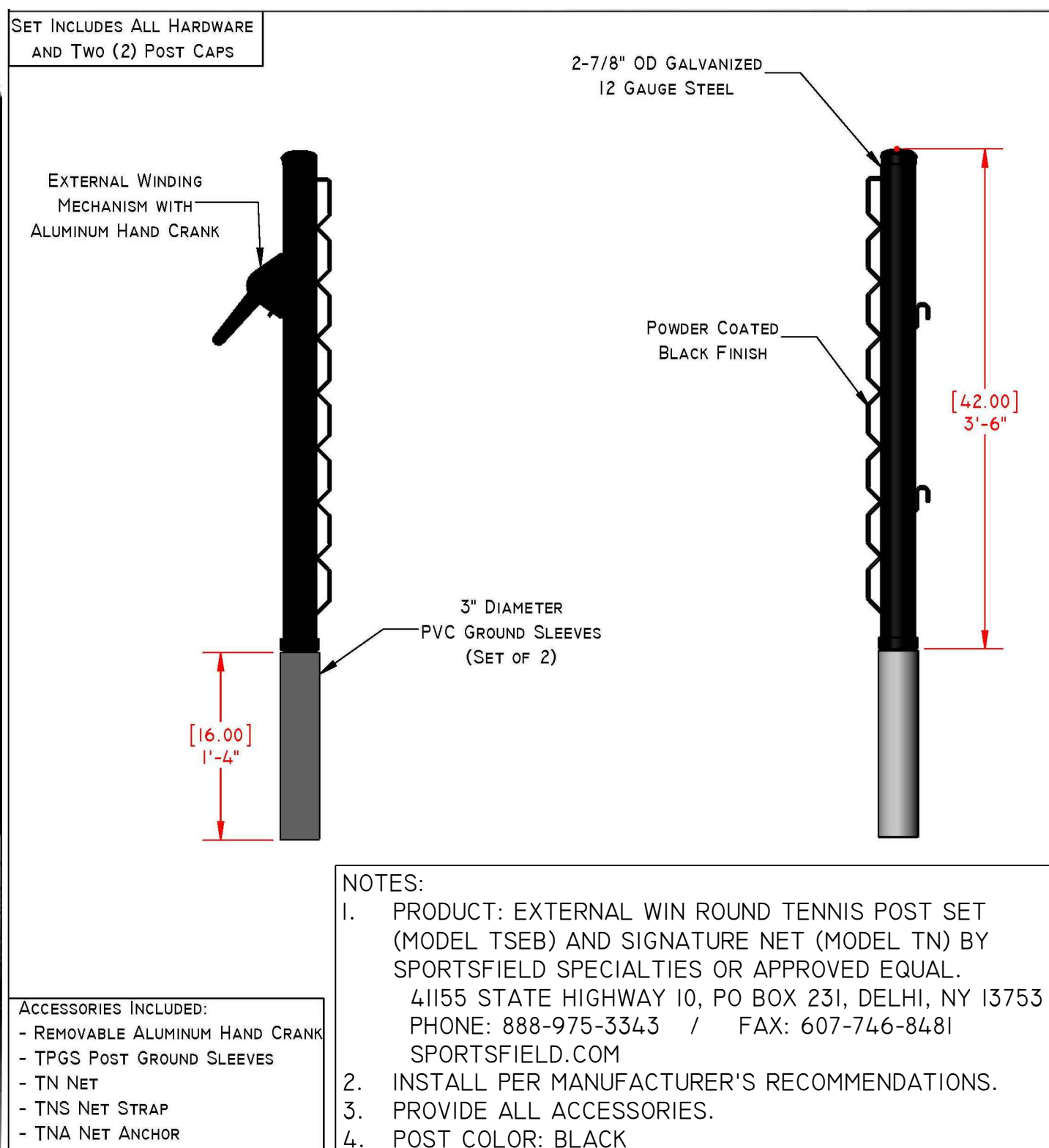
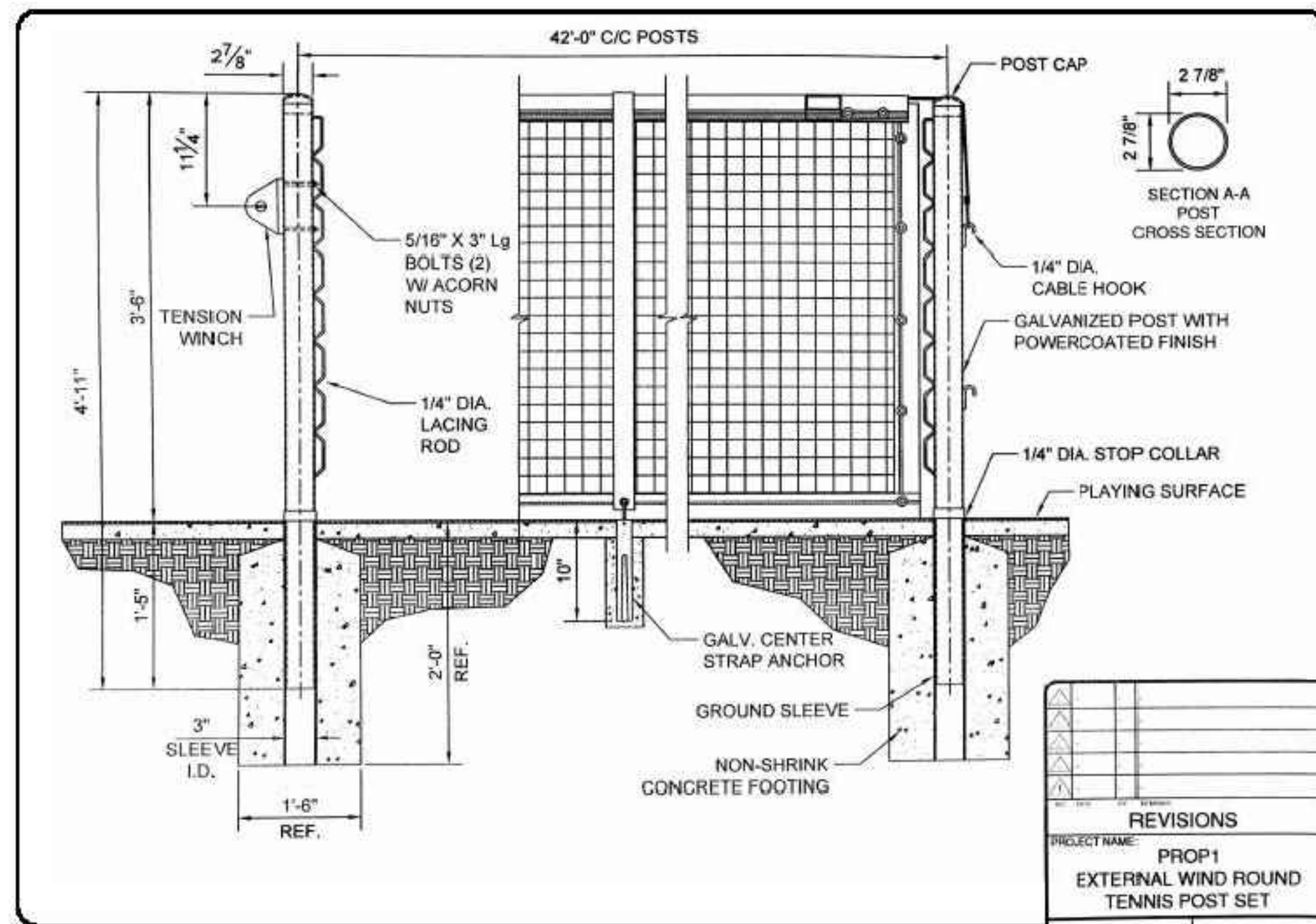
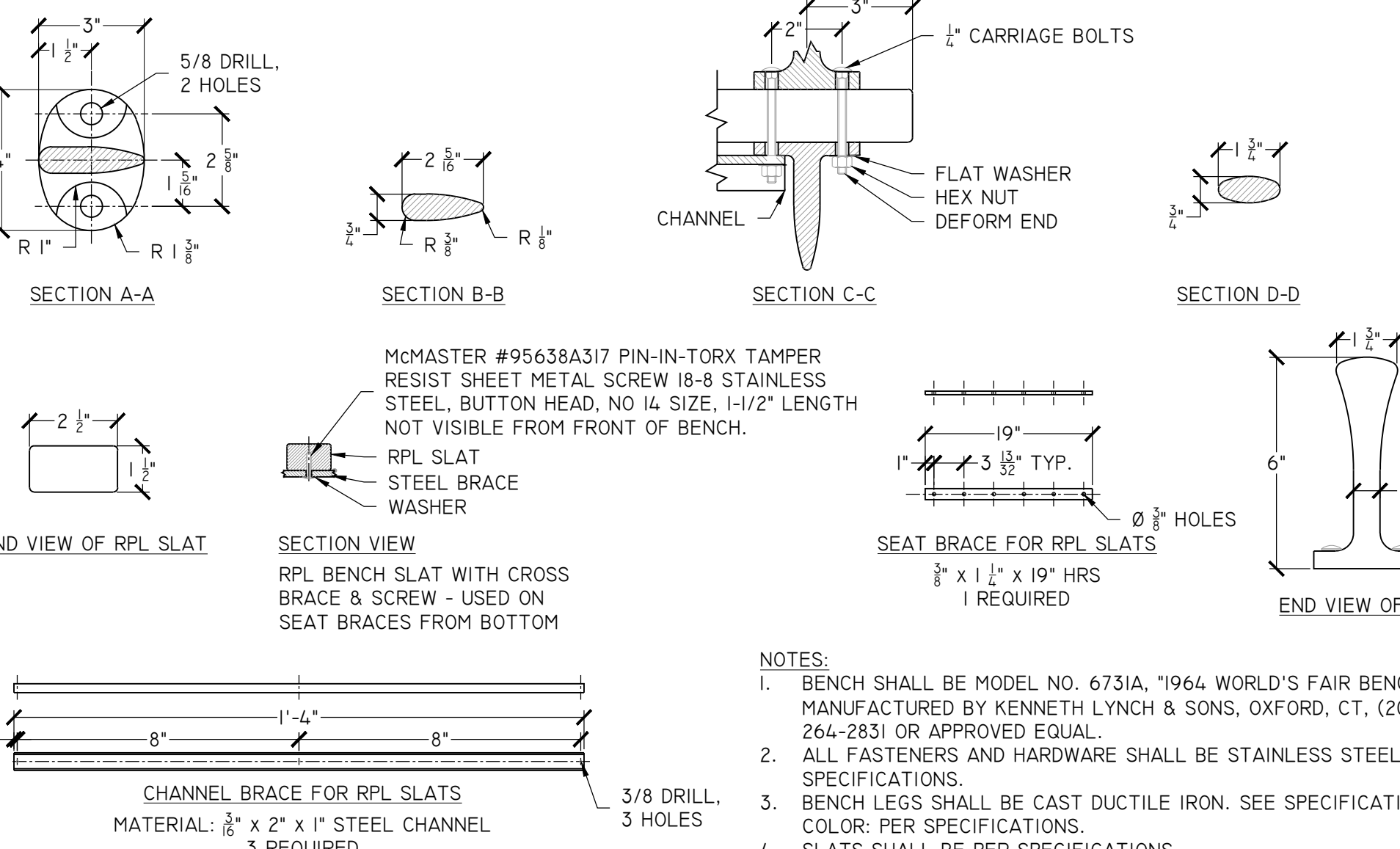
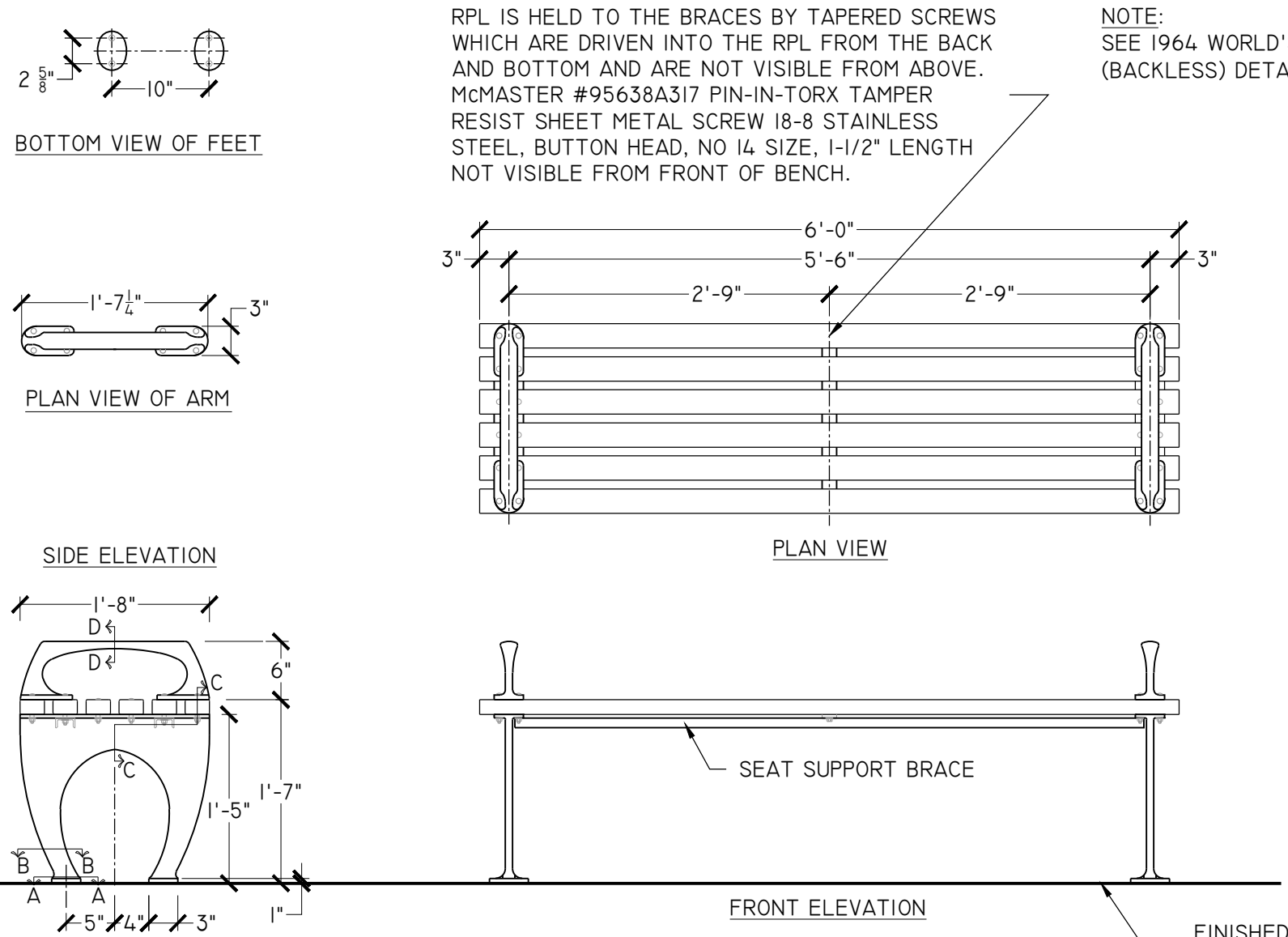


**9 1964 WORLD'S FAIR BENCH ENLARGEMENTS**  
 3" = 1'-0"

Approval	Date
Design Manager	
Revisions	Date

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: I05-150396024 site details - furnishings.dwg  
 Plotted: 2021-06-02  
 Scale: AS SHOWN  
 Date: JUNE 2, 2021





DEPARTMENT OF PARKS AND RECREATION

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

21-DPR-ITB-646

Project Name and Location

**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**SITE DETAILS - FURNISHINGS AND TENNIS & BASKETBALL DETAILS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW

Drawn: AMT

Checked: SDT, JKS, MMW, CMB

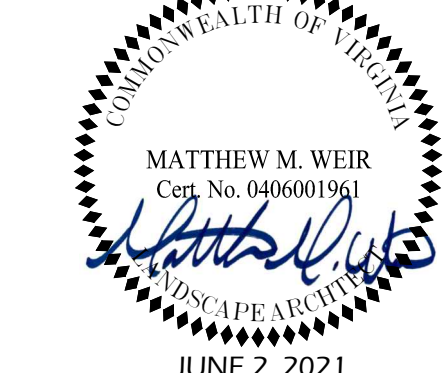
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Plotted: 2021-06-02

Scale: AS SHOWN

Date: JUNE 2, 2021

Seal



Sheet

L-06

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**SITE DETAILS -  
TENNIS &  
BASKETBALL  
DETAILS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions **ADDENDUM 2** Date **7/28/21**

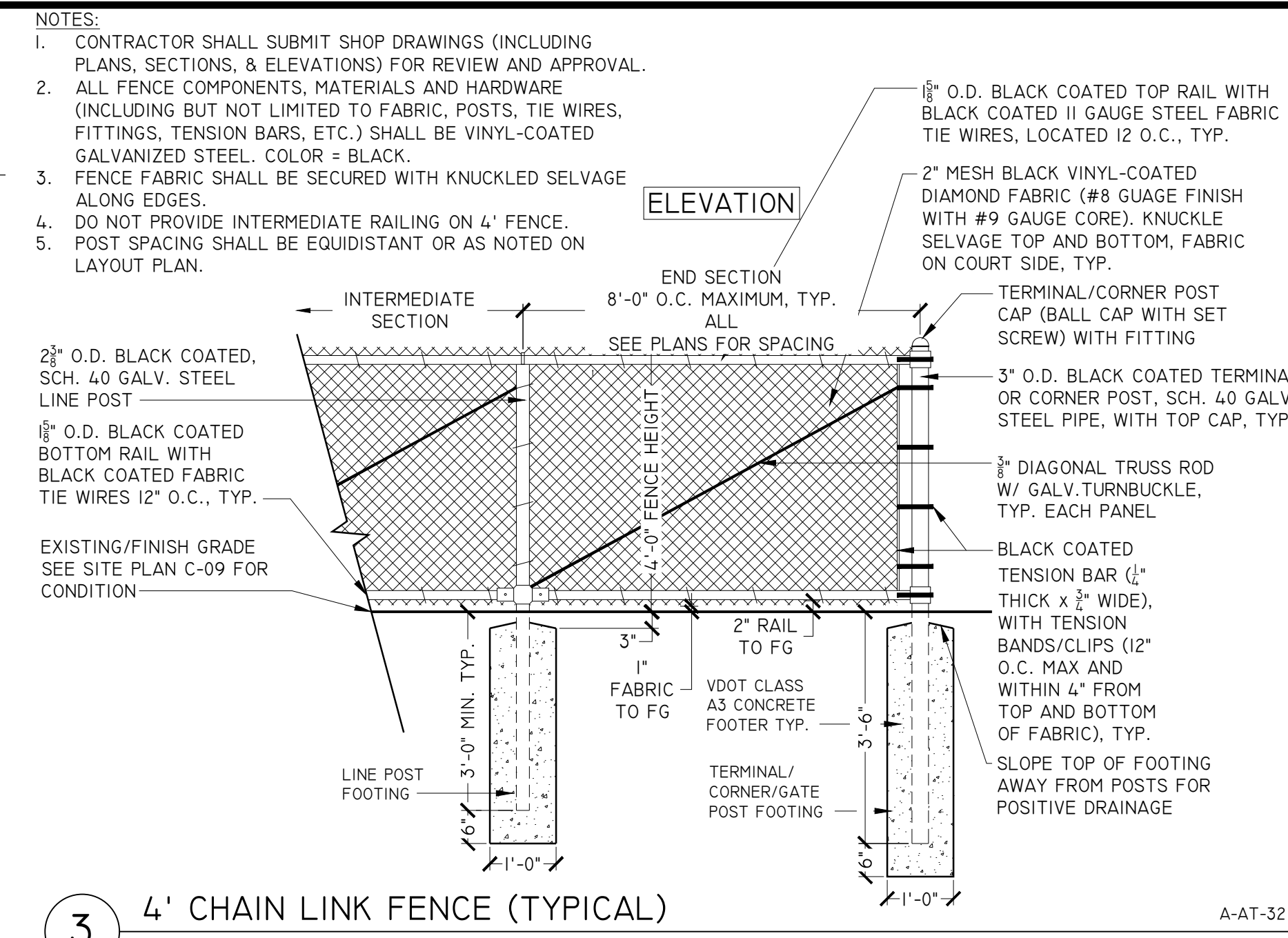
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Checked: SDT, JKS, MMW, CMB

Filename: I-07-150396024 site details - general court details.dwg  
Plotted: 2021-07-28

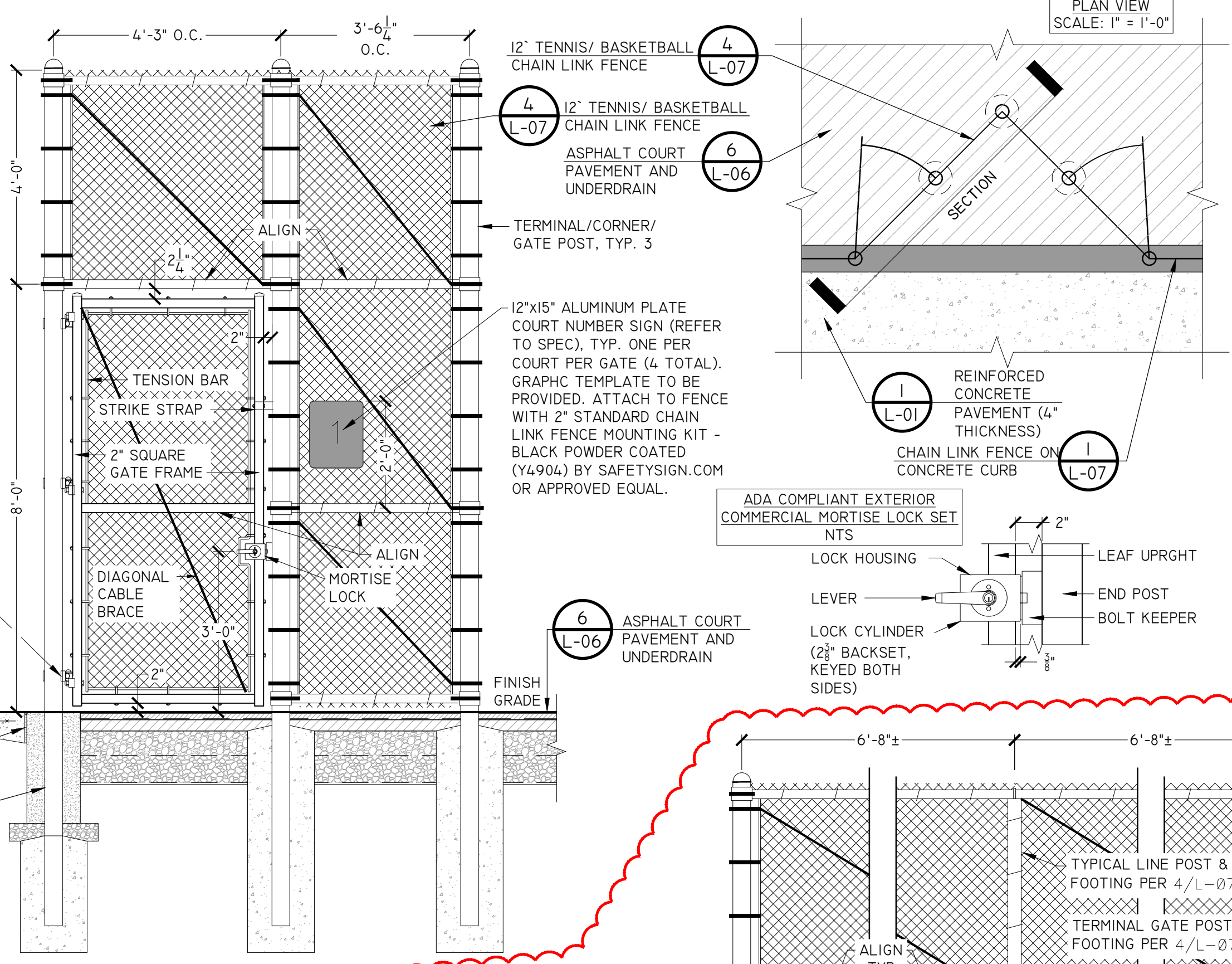
Scale: AS SHOWN  
Date: JUNE 2, 2021

Seal  
COMMONWEALTH OF VIRGINIA  
MATTHEW M. WEIR  
Cert. No. 0406001961  
JUL 2 2021  
LANDSCAPE ARCHITECT

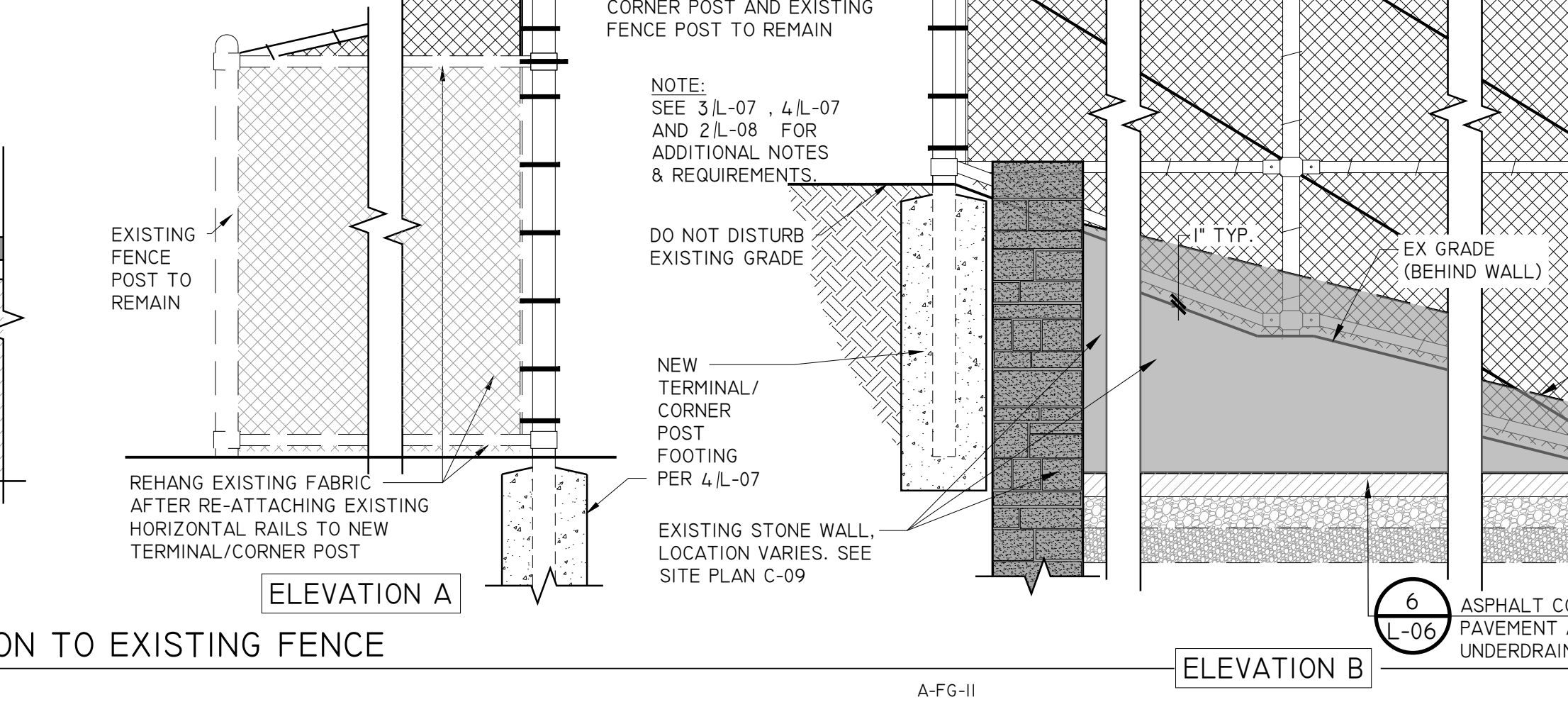
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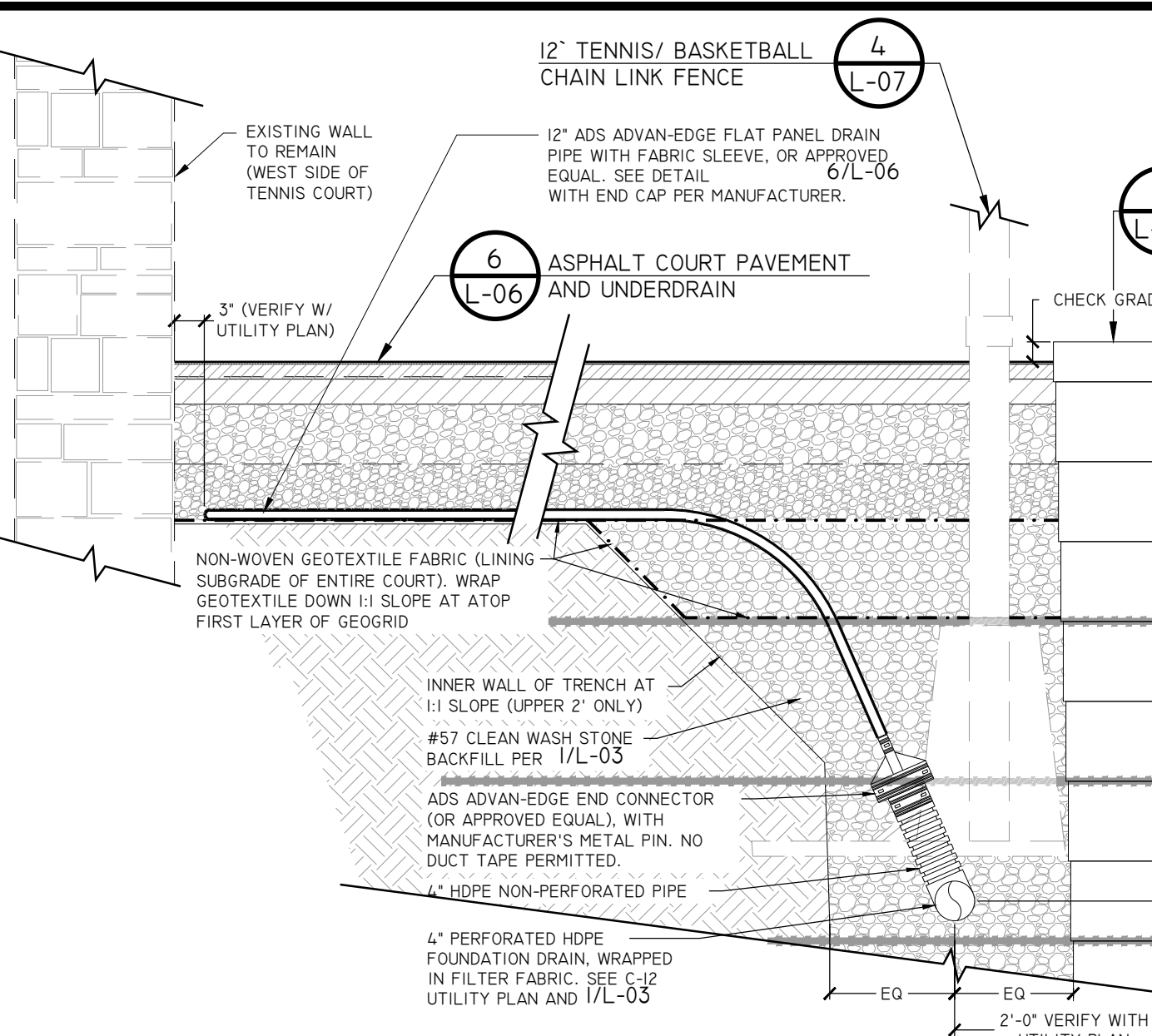
**3 4' CHAIN LINK FENCE (TYPICAL)**  
1/2" = 1'-0" A-AT-21



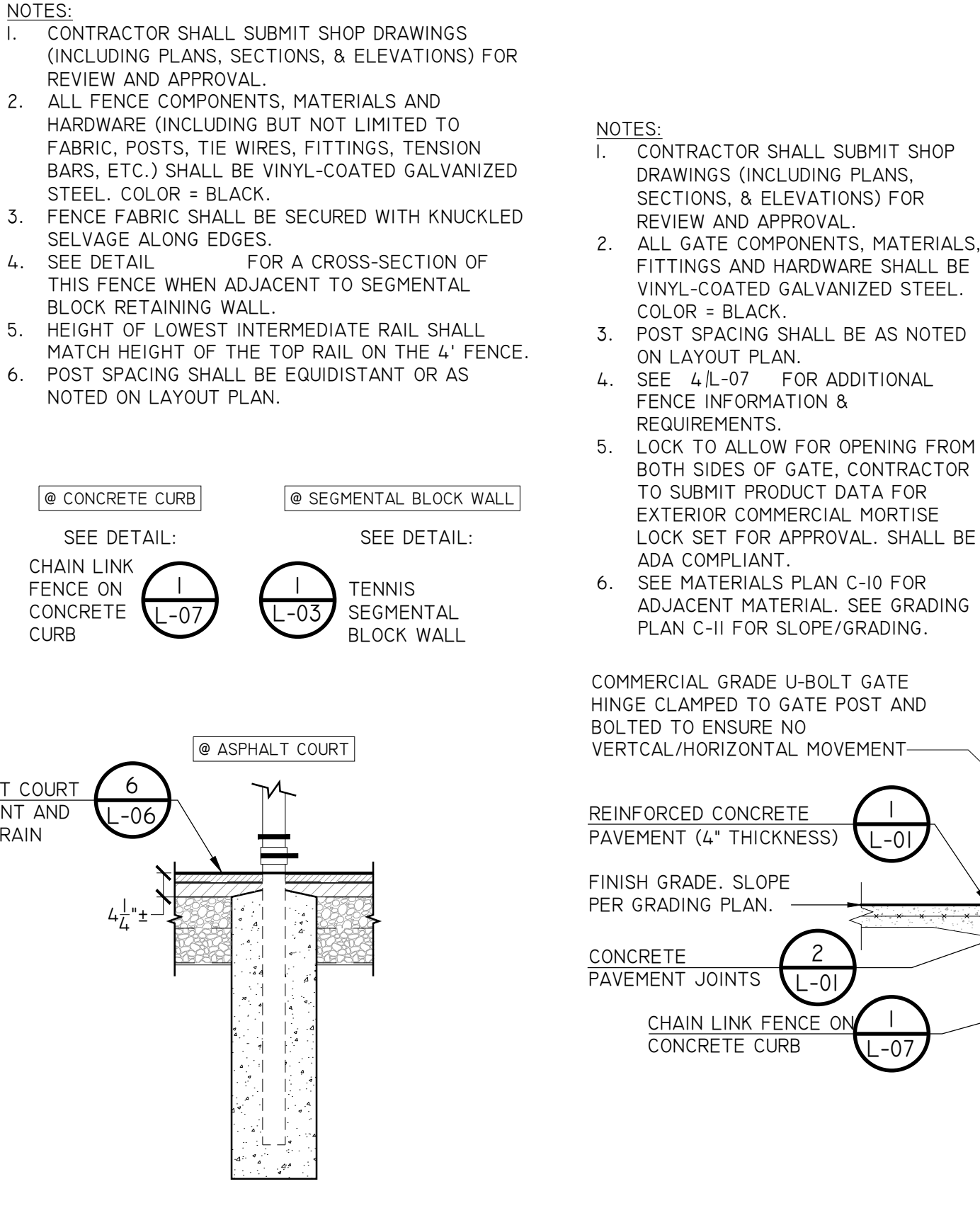
**5 TENNIS COURT GATE**  
1/2" = 1'-0" A-AT-33



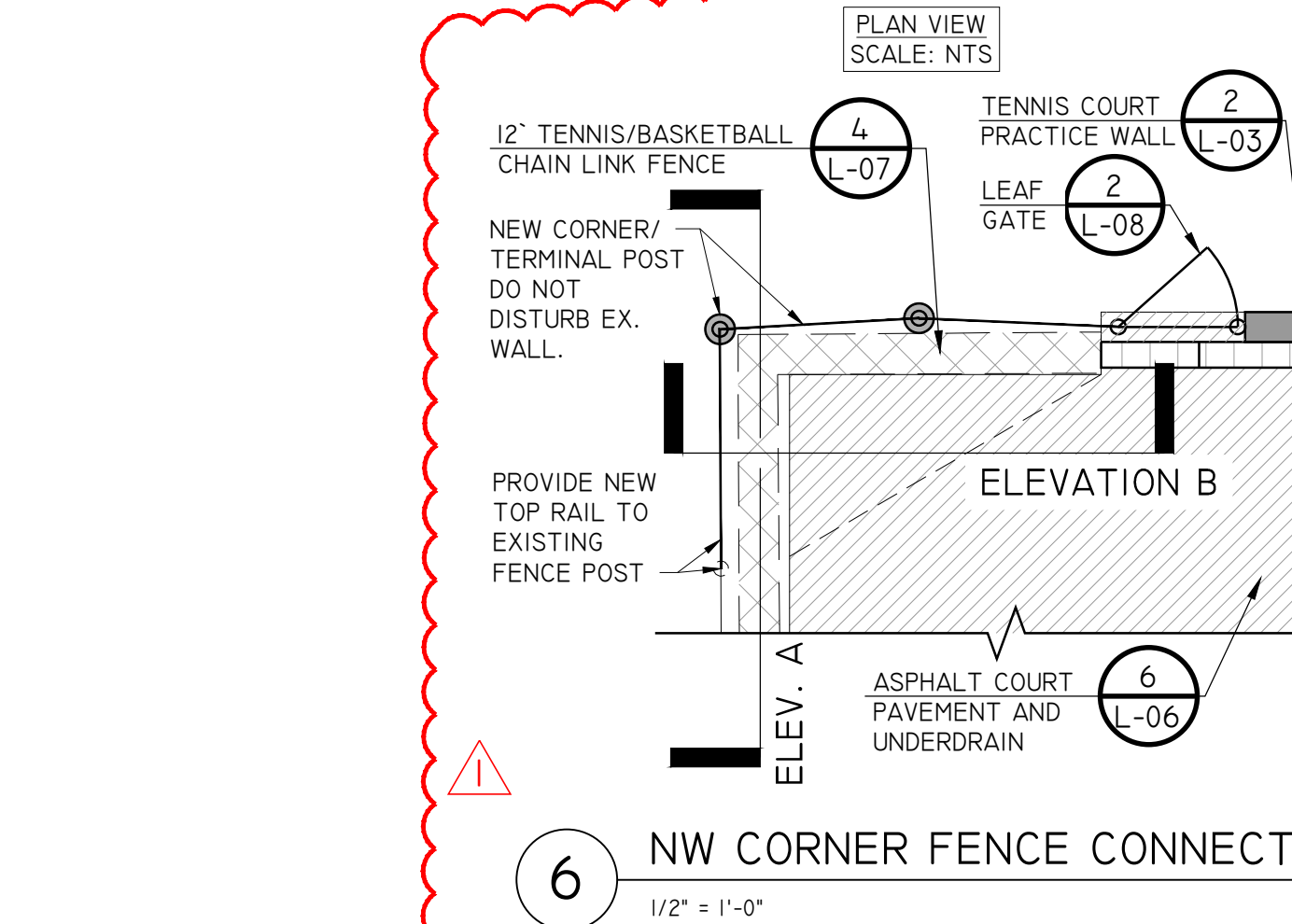
**6 NW CORNER FENCE CONNECTION TO EXISTING FENCE**  
1/2" = 1'-0" A-FG-II



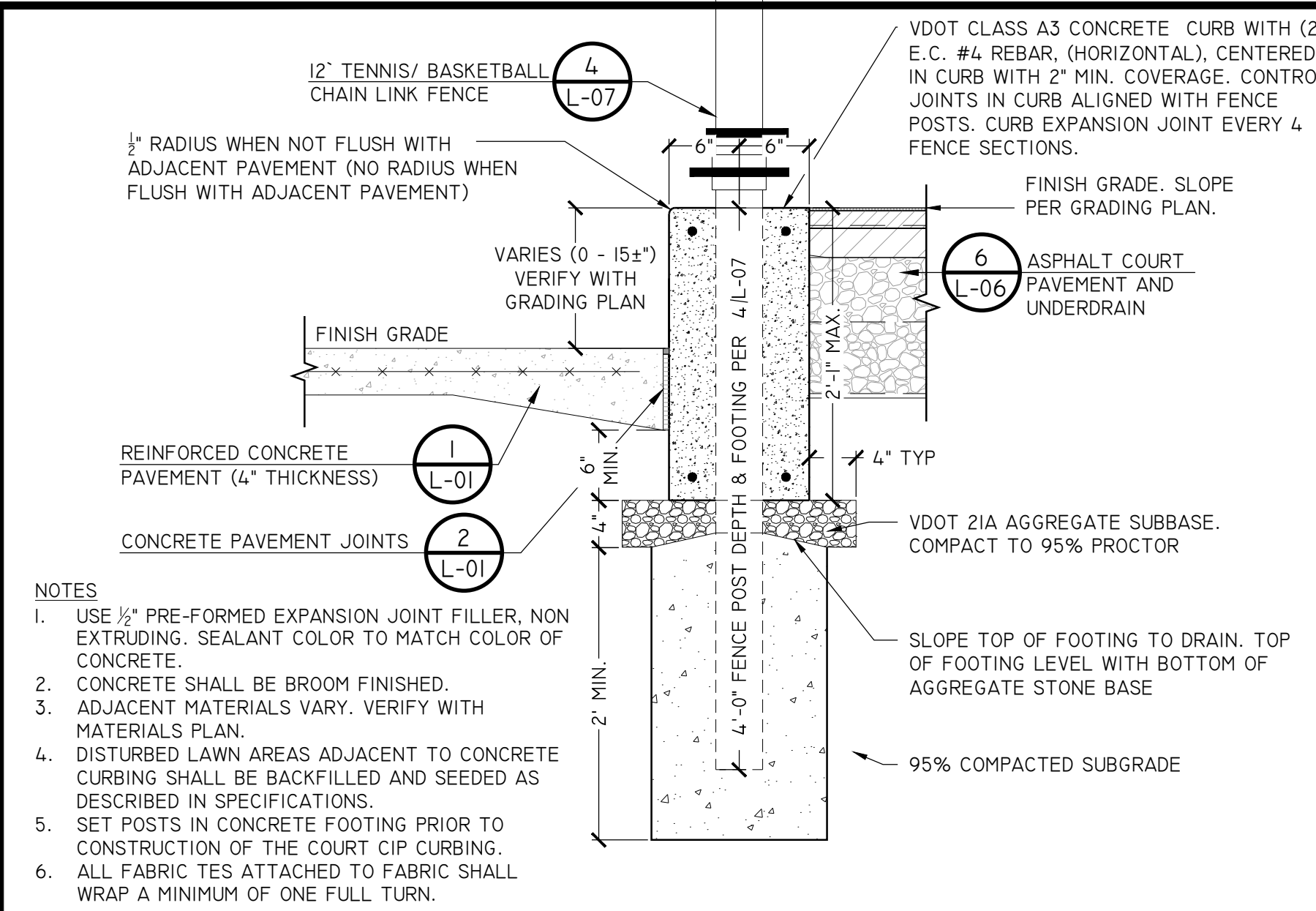
**2 FLAT DRAIN TO PERIMETER (FNDTN) DRAIN CONNECTION**  
3/4" = 1'-0" A-AT-21



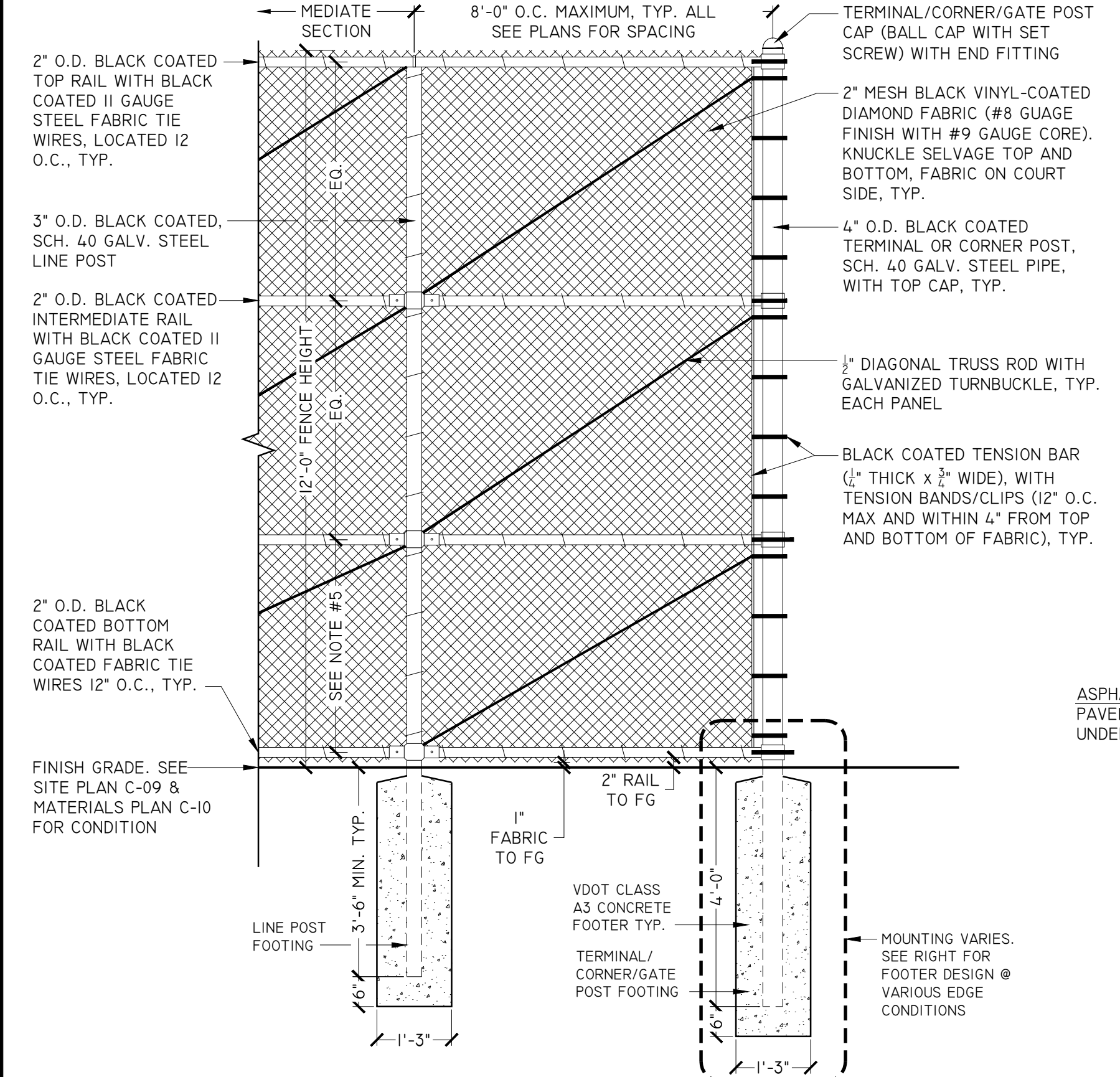
**1 CHAIN LINK FENCE ON CONCRETE CURB**  
1" = 1'-0" A-FG-10



**4 12' TENNIS/ BASKETBALL CHAIN LINK FENCE**  
1/2" = 1'-0" A-AT-33



**1 CHAIN LINK FENCE ON CONCRETE CURB**  
1" = 1'-0" A-FG-10



**4 12' TENNIS/ BASKETBALL CHAIN LINK FENCE**  
1/2" = 1'-0" A-AT-33



**6 NW CORNER FENCE CONNECTION TO EXISTING FENCE**  
1/2" = 1'-0" A-FG-II

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title  
**SITE DETAILS - TENNIS & BASKETBALL DETAILS**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

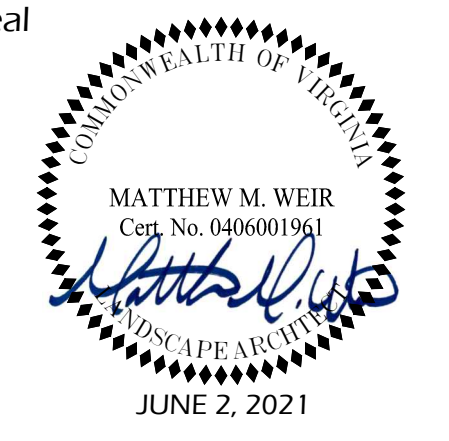
Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
Drawn: AMT  
Checked: SDT, JKS, MMW, CMB

Filename: I08-150396024 site details - basketball court.dwg  
Plotted: 2021-06-02

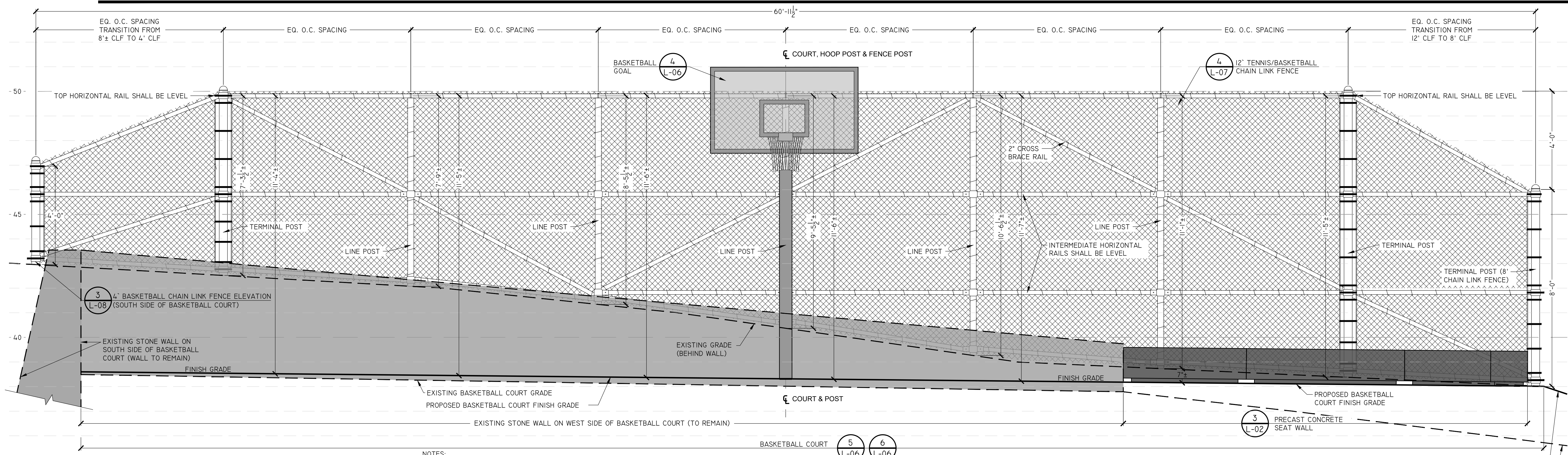
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Date: JUNE 2, 2021

Seal



Sheet

**L-08**



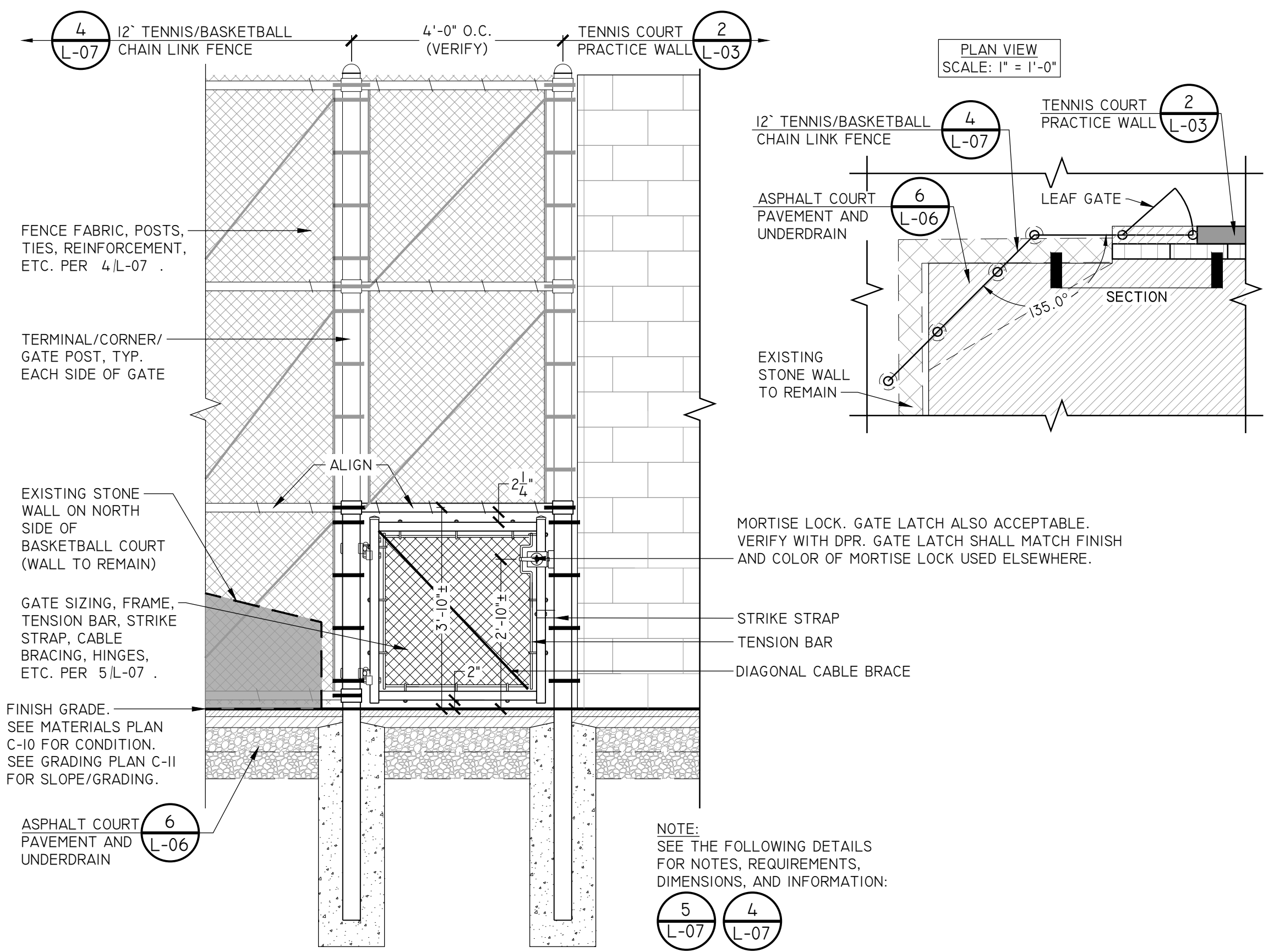
**1** 12' BASKETBALL CHAIN LINK FENCE ELEVATION

1/2" = 1'-0"

- NOTES:  
1. POST SPACING SHALL BE EQUIDISTANT OR AS NOTED ON LAYOUT PLAN.  
2. SEE DETAIL 4/L-07 FOR ADDITIONAL 8' FENCE INFORMATION. SEE DETAIL 3/L-07 FOR ADDITIONAL 4' FENCE INFORMATION.  
3. POSTS, FITTINGS, TIES, FABRIC, AND ALL OTHER FENCE ACCESSORIES ON THE 8' FENCE SHALL MATCH THAT OF THE 12' CHAIN LINK FENCE.

PROPOSED 3:1 FILL SLOPE (VERIFY WITH GRADING PLAN C-II)  
EXISTING GRADE NORTH OF EXISTING BASKETBALL COURT

A-AT-34



**2** LEAF GATE

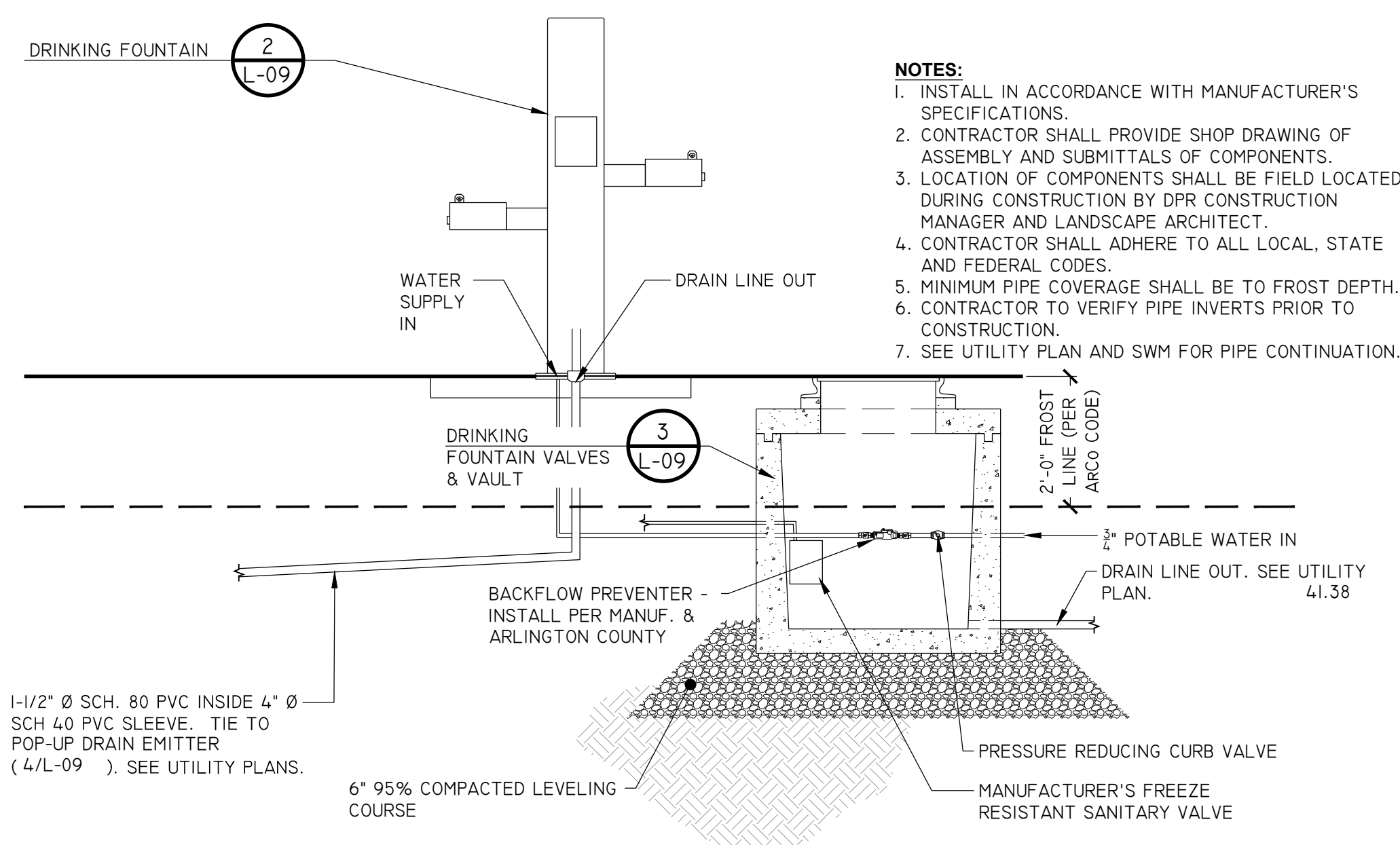
1/2" = 1'-0"

**3** 4' BASKETBALL CHAIN LINK FENCE ELEVATION

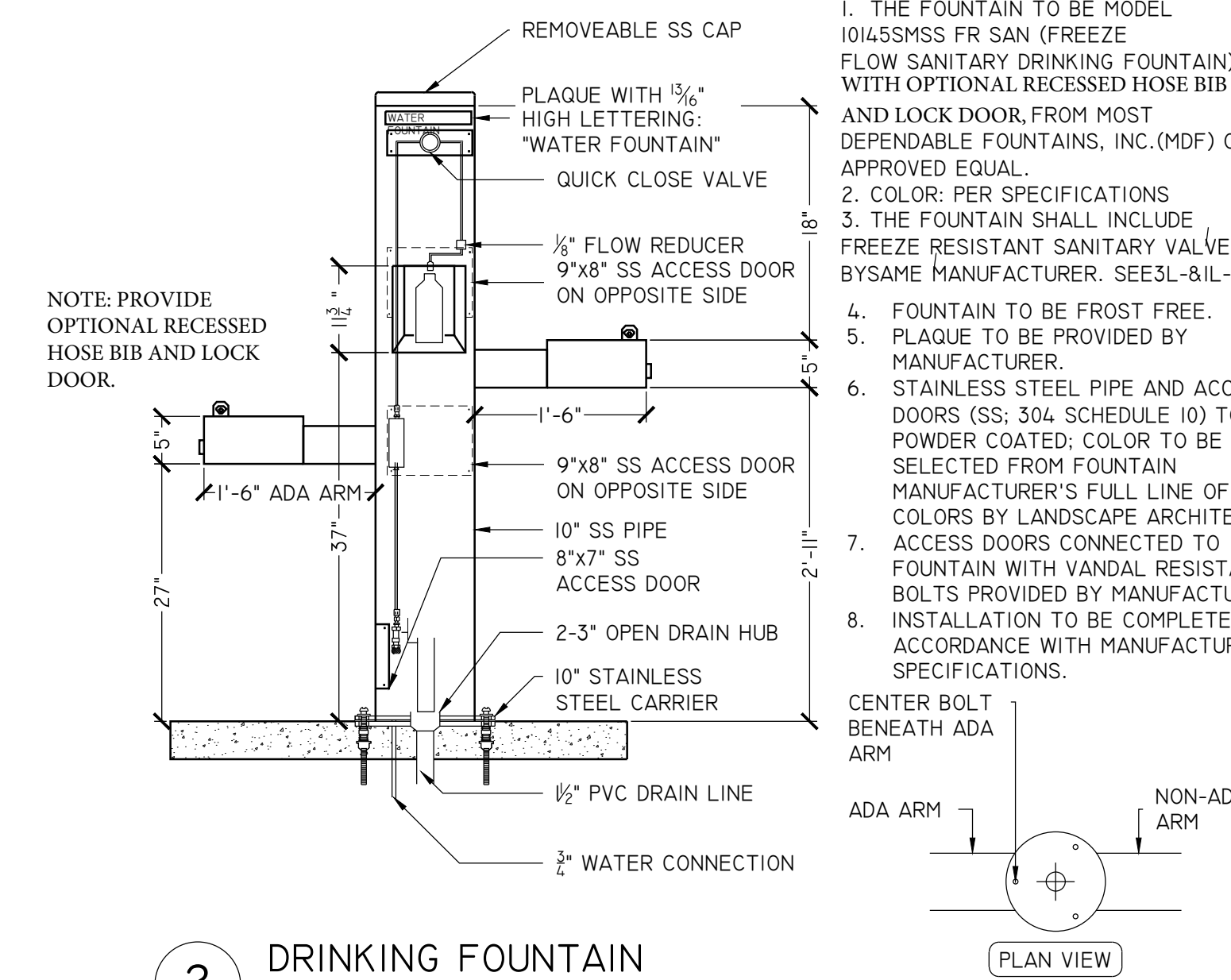
1/2" = 1'-0"

- NOTES:  
1. POST SPACING SHALL BE EQUIDISTANT OR AS NOTED ON LAYOUT PLAN.  
2. SEE DETAIL 3/L-07 FOR ADDITIONAL 4' FENCE INFORMATION.

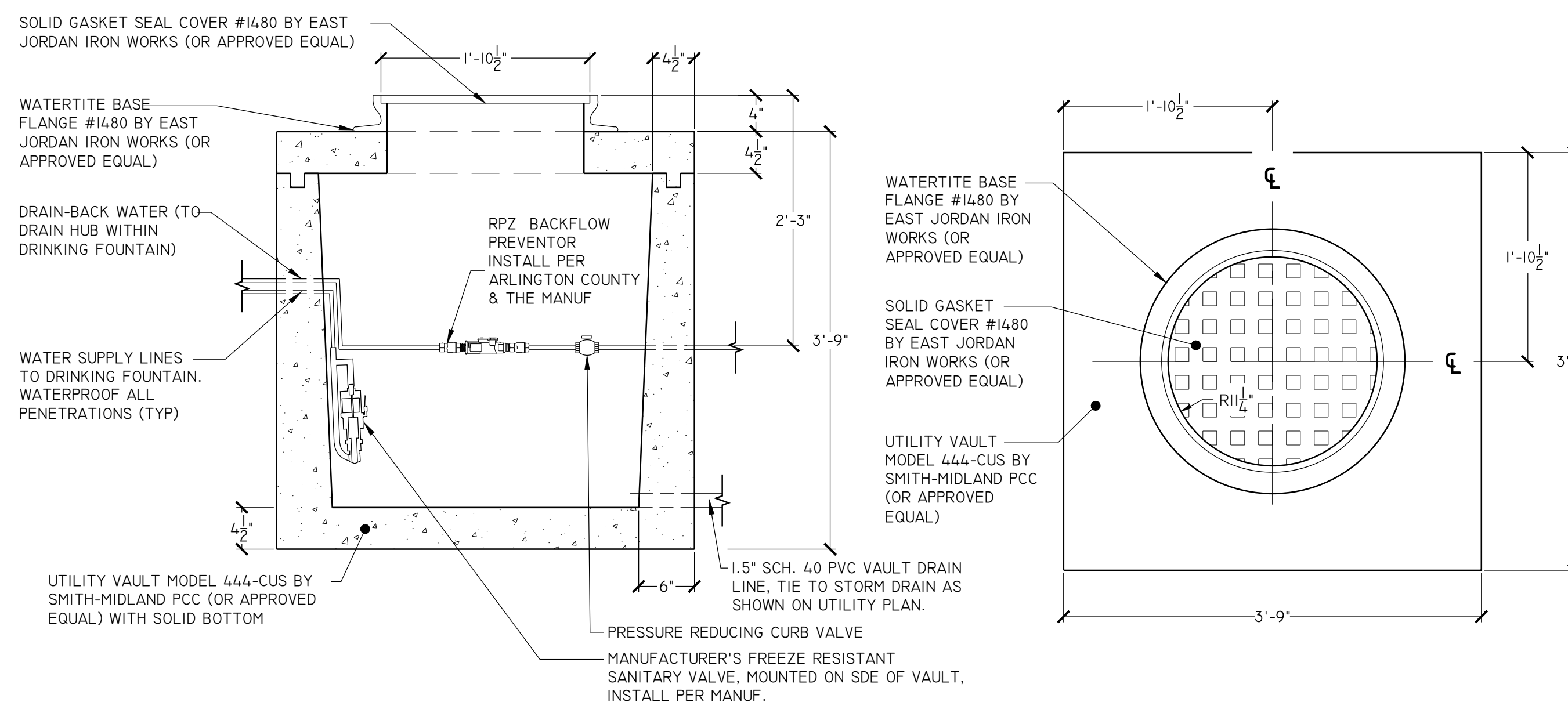
A-AT-38



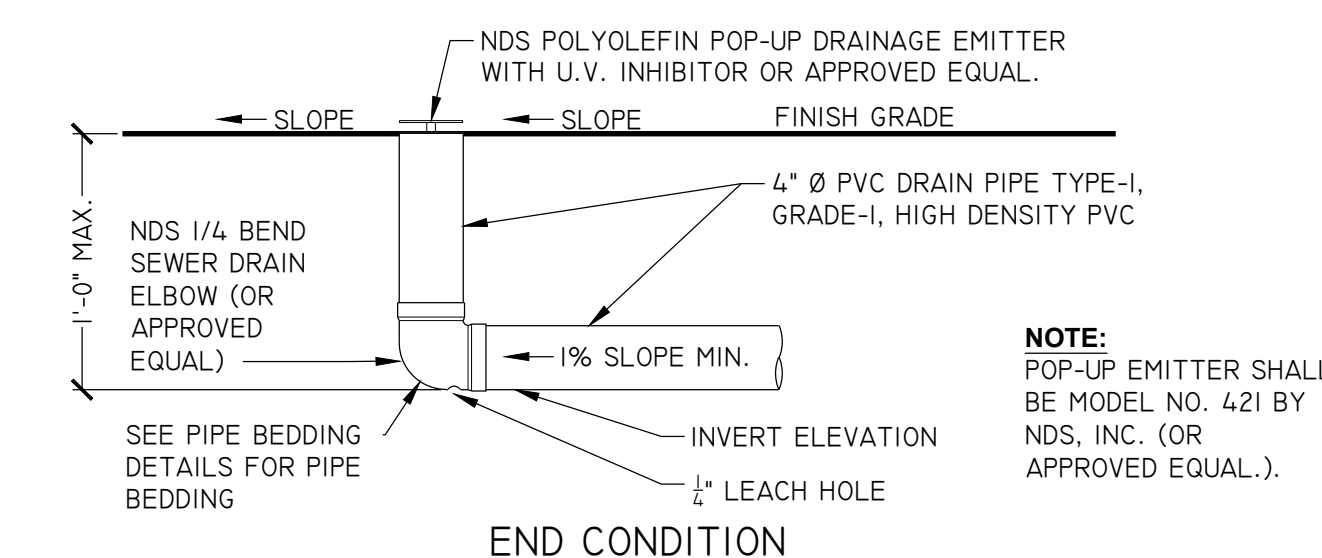
**1** DRINKING FOUNTAIN ASSEMBLY (WITH VAULT DRAIN LINE)  
1/2" = 1'-0"



**2** DRINKING FOUNTAIN  
3/4" = 1'-0"



**3** DRINKING FOUNTAIN VALVES & VAULT  
1" = 1'-0"



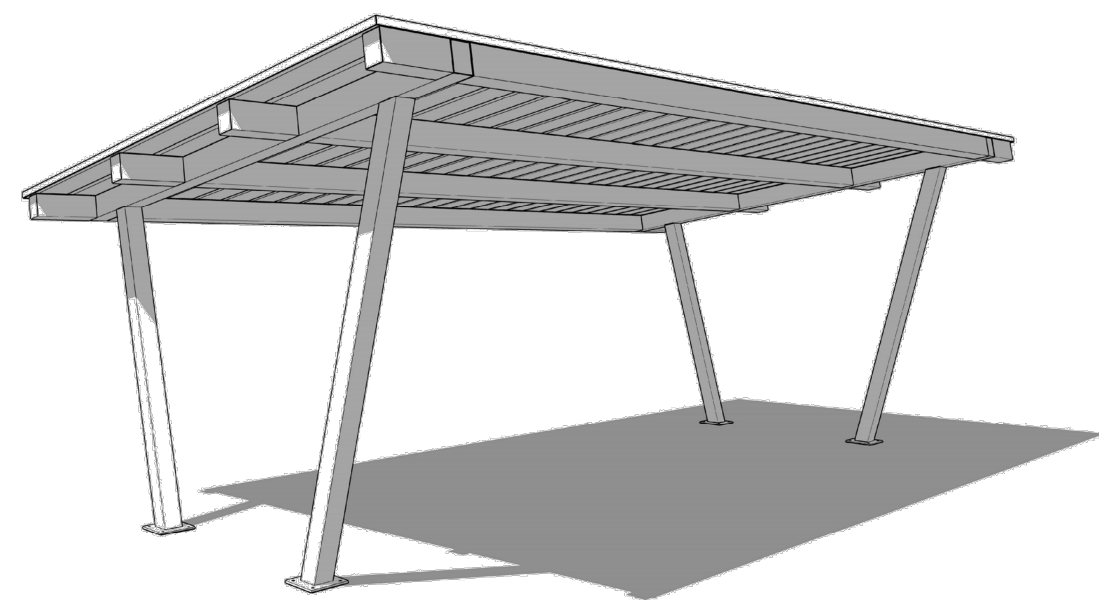
**4** POP-UP DRAIN EMITTER  
1" = 1'-0"



Installation Guide for:

**Steelworx Custom Monoslope Shelter - 16' x 30'**  
Model # MO-1630-SW-C

Marcey Road Park  
2722 Marcey Road  
Arlington, VA  
Job # 91818-21



11800 East 9 Mile Road, Warren, MI 48089  
(886) 486-1088 Office (586) 754-9130 Fax (800) 657-6118 Toll Free  
www.Coverworx.com info@coverworx.com

**DESIGN CRITERIA**  
2015 VIRGINIA CONSTRUCTION CODE

<b>Risk Category:</b>	II
<b>Dead Loads, D:</b>	Weight of Roofing System = 2.00 psf + Structure Dead Weight
<b>Snow Loads, S:</b>	Basic Ground Snow Load, P <sub>g</sub> = 25.00 psf
	Importance Factor, I <sub>w</sub> = 1.00
	Slope Factor, C <sub>s</sub> = 1.00
	Thermal Factor, C <sub>t</sub> = 1.20
	Exposure Factor, C <sub>e</sub> = 1.00
	Flat Roof Snow Load, P <sub>f</sub> = 21.00 psf
	Sloped Roof Snow Load, P <sub>s</sub> = 21.00 psf
	Unbalanced Roof Snow Load, W<20 ft = 25.00 psf
<b>Live Loads, L<sub>s</sub>:</b>	Roof Live Load, L <sub>r</sub> = 20.00 psf
<b>Wind Loads, W:</b>	Ultimate Design Wind Speed = V <sub>ult</sub> = 115.00 mph
	Nominal Design Wind Speed = V <sub>nd</sub> = 90.00 mph
<b>Seismic Loads, E:</b>	See Wind Analysis Sheets
	Equivalent Lateral Force Procedure
	Seismic Site Class = D
	Seismic Force Resisting System = Steel Ordinary Cantilever Column System
	Short Spectral Response Parameter, S <sub>s</sub> = 0.119
	1-Sec Spectral Response Parameter, S <sub>1</sub> = 0.051
	Seismic Design Category = B
	Importance Factor, I <sub>e</sub> = 1.00
	Response Modification Coefficient, R = 1.25
	Redundancy Factor, ρ = 1.00
	Overstrength Factor, Ω <sub>o</sub> = 1.25
	Site Coefficient, F <sub>a</sub> = 1.600
	Site Coefficient, F <sub>v</sub> = 2.400
	Adjusted Short Spectral Response Parameter, S <sub>adj</sub> = 0.190
	Adjusted 1-Sec Spectral Response Parameter, S <sub>adj</sub> = 0.122
	Design Short Spectral Response Parameter, S <sub>DS</sub> = 0.127
	Design 1-Sec Spectral Response Parameter, S <sub>1</sub> = 0.082
	Seismic Response Coefficient, C <sub>s</sub> = 0.102
	Effective Seismic Weight, W = 3857.91 lbs
	Seismic Base Shear, V = 391.75 lbs
	Seismic Load, E = 391.75 lbs
	Seismic Load with Overstrength Factor, E <sub>o</sub> = 489.69 lbs
<b>Frost Depth:</b>	24" Below Finished Grade
<b>Foundation Design:</b>	Concrete Compressive Strength after 28 Days: 3,000 PSI Steel Reinforcement: ASTM-A615, Grade 60 Vertical Foundation Pressure: 2,000 PSF per Geotechnical Report Conducted by Hillis-Carnes Engineering Associates (Project No. C20043) on May 22, 2020. It is the contractor's responsibility to follow all Procedures outlined within that report.
<b>Welding:</b>	All members to be factory welded. No Field Welding is required.



**GENERAL:**

1. PROPER BRACING OF MEMBERS DURING INSTALLATION MUST BE PERFORMED UNTIL COMPLETE.
2. ANY MODIFICATIONS TO THE PROPOSED SHELTER NEED TO HAVE PRIOR CONSENT FROM A LICENSED ENGINEER.
3. THE INSTALLATION OF THE SHELTER SHALL BE PERFORMED BY SOMEONE OF EXPERIENCE AND COMPETENCE. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO PROPERLY ASSEMBLE THE SHELTER AS SHOWN IN THIS DOCUMENT AND TO CONSTRUCT SHELTER FOUNDATIONS AS SPECIFIED IN SUPPLEMENTAL ENGINEERING DOCUMENTS.
4. READ AND UNDERSTAND INSTALLATION INSTRUCTIONS THOROUGHLY BEFORE PROCEEDING WITH THE INSTALLATION PROCESS.
5. ALWAYS USE THE INSTALLATION INSTRUCTIONS THAT HAVE SHIPPED WITH THE SHELTER AS THESE ARE THE MOST CURRENT. POSSIBLE CHANGES IN MATERIAL QUANTITIES, LENGTHS, PART LABELS, ETC. MAY HAVE BEEN NECESSARY DURING FINAL SHOP DRAWINGS, EVEN AFTER SEALED ENGINEERING.
6. SHOULD THERE BE ANY ERROR IN MANUFACTURING OR INSTALLATION, COVERWORX SHOULD BE NOTIFIED AS SOON AS POSSIBLE. ABSOLUTELY NO FIELD REPAIRS WILL BE HONORED WITHOUT PRIOR AUTHORIZATION OF PROCESS AND COST BY COVERWORX MANAGEMENT.

**STEEL & HARDWARE SHOP NOTES:**

1. ALL STEEL IS TO BE ASTM A-36 EXCEPT STEEL TUBES.
2. STEEL TUBES SHALL BE ASTM A-500 GRADE B.
3. ALL WELDING IS TO BE DONE IN ACCORDANCE WITH THE LATEST AWS STANDARDS AND ALL WELDS ARE TO DEVELOP FULL STRENGTH OF COMPONENT PARTS. (E7018 ELECTRODES).
4. ALL BOLTS TO BE ASTM A-325.
5. ALL BOLTED CONNECTIONS SHOULD FOLLOW THE "TURN-OF-NUT PRETENSIONING" METHOD AS OUTLINED IN THE AISC SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO MAKE SURE ALL AISC REQUIREMENTS ARE MET.
6. ALL STEEL FRAMEWORK WILL RECEIVE A CORROSION PROTECTIVE ZINC-RICH EPOXY PRIMER FOLLOWED BY A TGIC POLYESTER POWDER COAT, ELECTRO-STATICALLY APPLIED AND CURED AT 400°F.



**CONTENTS AND QUANTITIES**

FOUNDATION		
Item	Size	Quantity
ANCHOR BOLT BRACING TEMPLATE	12" x 12"	4
F1554 ANCHOR BOLT	3/4"-10 x 16"	16
F436 FLAT WASHER	3/4"	16
A563 HEX NUT	3/4"-10	32
FRAMING		
Item	Size	Quantity
COLUMN (C 1)	6" x 6" x 3/16" x 8'-11" 7/8"	2
COLUMN (C 2)	6" x 6" x 3/16" x 10'-11" 1/4"	2
RAFTER BEAM (RA 1)	8" x 6" x 3/16" x 15'-0" 1/4"	2
PURLIN (P 1)	8" x 6" x 3/16" x 25'-6"	4
PURLIN (P 2)	8" x 6" x 3/16" x 1'-9"	8
A325 HEX HEAD BOLT	3/4"-10 x 1 1/2"	32
A325 HEX HEAD BOLT	3/4"-10 x 2"	16
FLAT WASHER	3/4"	48
ROOFING		
Item	Size	Quantity
ROOF PANEL	24 Ga. MULTI-RIB x 16'-2"	10
EAVE TRIM	2" x 2" x 10'-4"	6
RAKE TRIM	2 1/2" x 2" x 10'-4"	4
1 1/4" TEK SCREW	12-24 x 1 1/4" TEK 5	140
7/8" TEK SCREW	14-14 x 7/8" TEK 1	225
FINISHING		
Item	Size	Quantity
TOUCH-UP PAINT	-	1

**COLORS:**

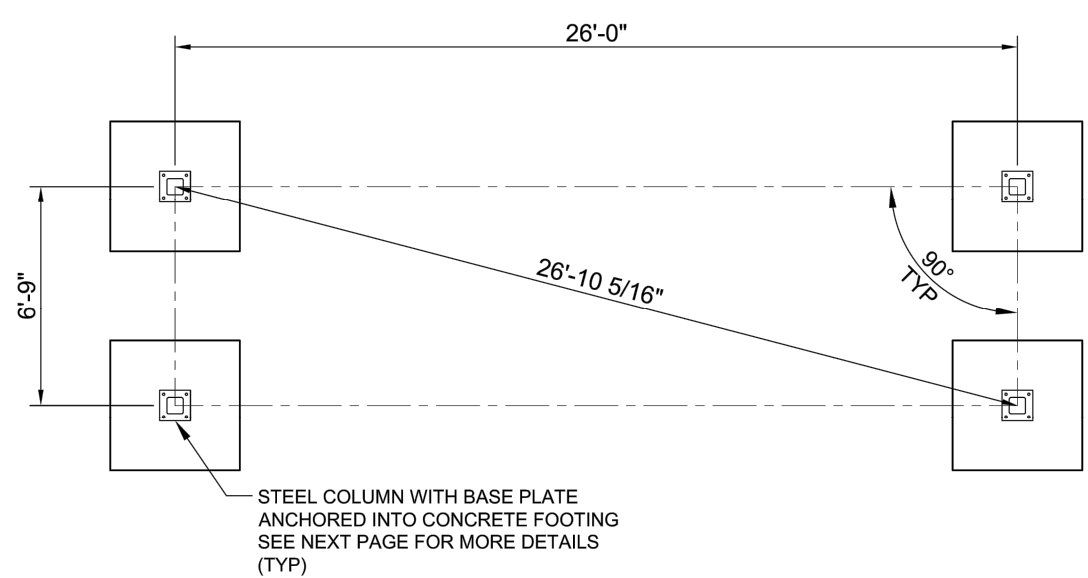
FRAME:  
ROOF:



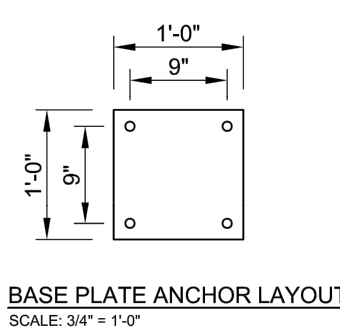
**PART 1: FOUNDATION**

**LAYOUT:**

1. DETERMINE LOCATION OF SHELTER. VERIFY THAT SHELTER WILL NOT INFRINGE ON BUILDING SETBACKS, EASEMENTS OR HEIGHT RESTRICTIONS.
2. USING STRING LOCATE COLUMN / FOOTING CENTERLINES. MEASURE CENTERLINES AS SHOWN ON THE "FOOTING LAYOUT PLAN". BE SURE TO EXTEND STRING STAKES BEYOND THE AREA OF EXCAVATION.
3. COMPARING DIAGONAL DIMENSIONS IN OPPOSITE DIRECTIONS WILL DETERMINE IF THE LAYOUT IS SQUARE. VERIFY MEASUREMENTS WITH THOSE SHOWN IN THE "FOOTING LAYOUT PLAN". IF DIMENSIONS VARY ADJUST AS NECESSARY BEFORE PROCEEDING.



FOOTING LAYOUT PLAN  
SCALE: 3/16" = 1'-0"



BASE PLATE ANCHOR LAYOUT  
SCALE: 3/4" = 1'-0"

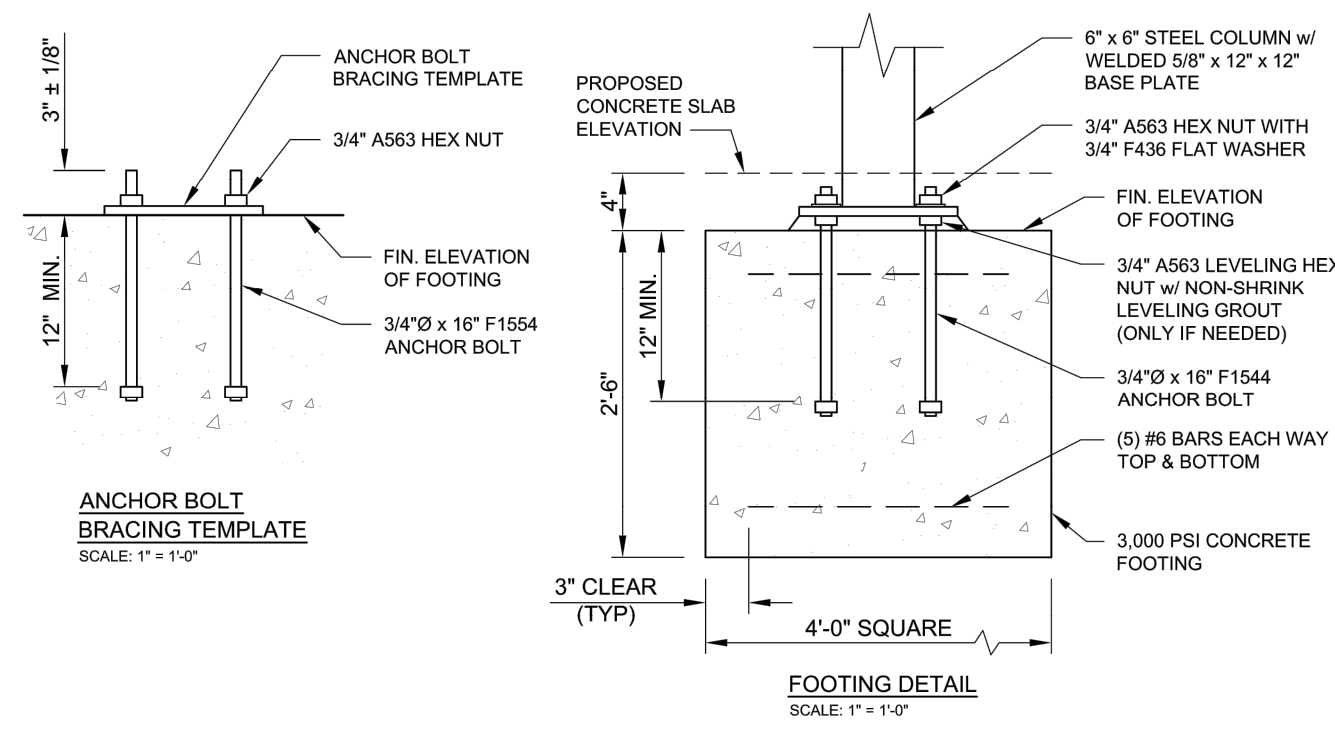


**PART 1: FOUNDATION**

**FOOTINGS:**

1. BEFORE STARTING EXCAVATION UNDERGROUND UTILITIES SHOULD BE LOCATED SO THAT FOOTINGS ARE NOT PLACED DIRECTLY OVER EXISTING UTILITIES.
2. PRE-ASSEMBLE THE ANCHOR BOLT BRACING TEMPLATES AS PER DETAIL BELOW AND ALIGN ANCHORS AS SHOWN IN THE "FOOTING LAYOUT PLAN" FROM PREVIOUS PAGE. POSITION CENTER OF BRACING TEMPLATES WITH STRING CENTERLINES USED DURING LAYOUT. CHECK FOR LEVEL SURFACE AND ADJUST AS NECESSARY. IT IS VERY IMPORTANT THAT ANCHOR ALIGNMENT FOR EACH FOOTING IS PRECISELY ORIENTED AS SHOWN IN THE "FOOTING LAYOUT PLAN" AND ANCHORS ARE AT EXACT CENTER OF FOOTING.
3. POUR CONCRETE FOOTINGS AS SPECIFIED IN THE ENGINEERING DETAILS. TOP ELEVATION OF FOOTINGS TO BE 4" BELOW PROPOSED FINISHED SLAB ELEVATION TO MAINTAIN THE PROPOSED CLEAR EAVE HEIGHT OF 8'-0". MAKE SURE THAT ALL FOOTING TOP LEVELS ARE LEVEL AND AT THE SAME ELEVATION.
4. REMOVE AND DISCARD ANCHOR BOLT BRACING TEMPLATES FROM ANCHOR BOLTS ONCE THE CONCRETE HAS HARDENED AND REACHED FULL STRENGTH (48 HOURS MINIMUM). SAVE HEX NUTS TO USE FOR COLUMN ASSEMBLY LATER.
5. VERIFY THAT FOOTINGS ARE LEVEL AND UNIFORM ONCE THE CONCRETE HAS SET AND HARDENED. IF FOOTINGS ARE NOT LEVEL WITH EACH OTHER LEVELING NUTS CAN BE USED BELOW THE COLUMN BASE PLATES AND ADJUSTED AS NEEDED TO BRING THE BASE PLATES TO A UNIFORM LEVEL. ALWAYS USE NON-SHRINK GROUT BELOW THE BASE PLATE WHEN USING LEVELING NUTS.

NOTE: THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT CONDUCTED BY HILLIS-CARNES ENGINEERING ASSOCIATES (PROJECT NO. C20043) ON MAY 22, 2020. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL PROCEDURES OUTLINED WITHIN THAT REPORT.

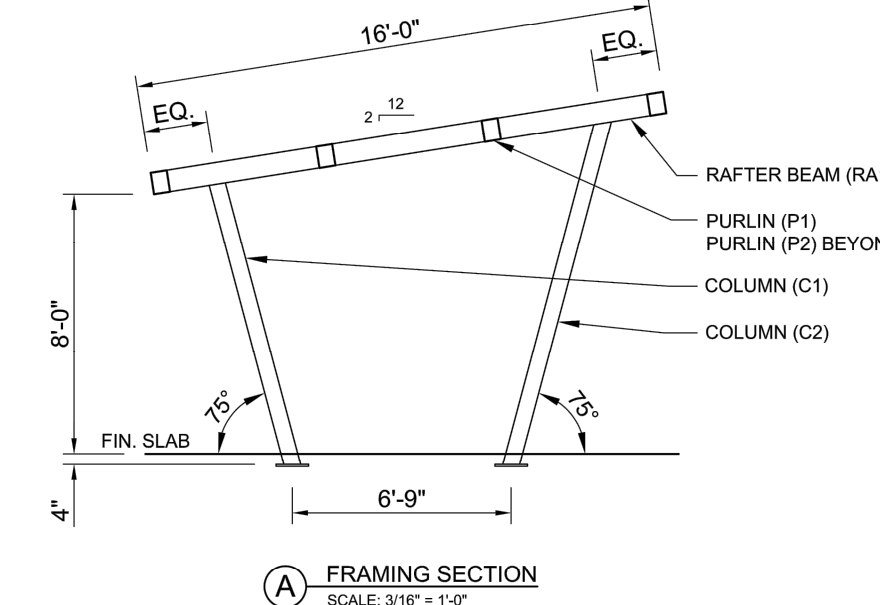


ANCHOR BOLT BRACING TEMPLATE  
SCALE: 1" = 1'-0"

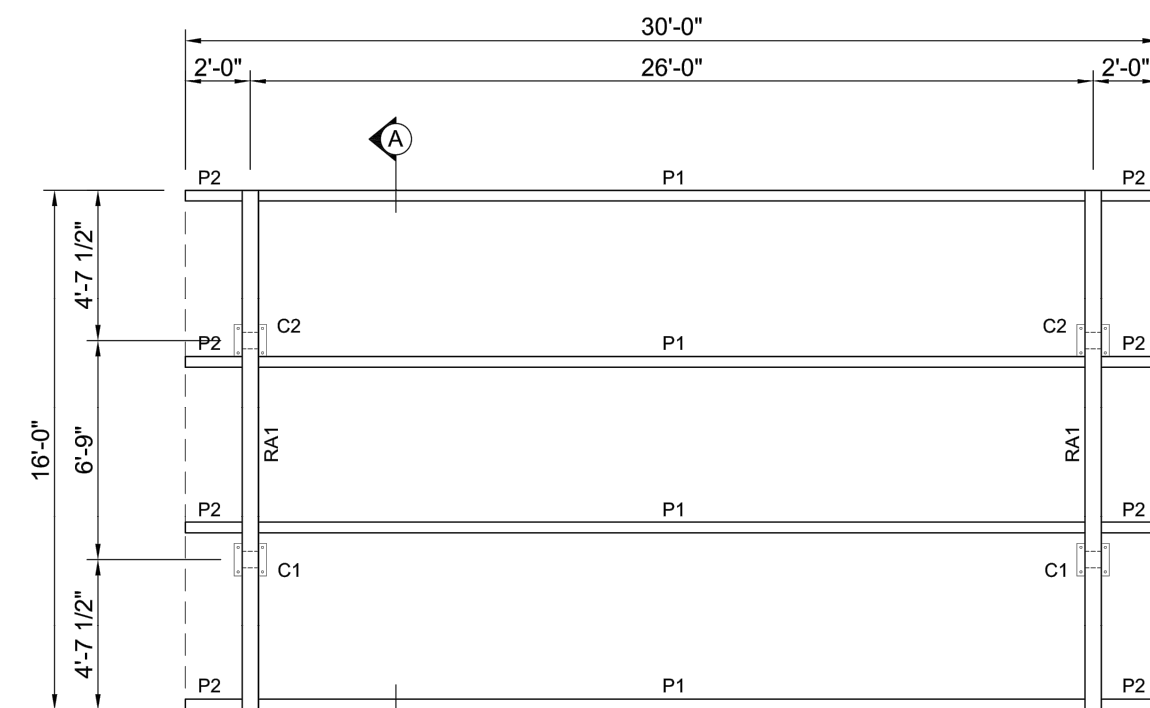
FOOTING DETAIL  
SCALE: 1" = 1'-0"



**PART 2: FRAMING**



FRAMING SECTION  
SCALE: 3/16" = 1'-0"



FRAMING PLAN  
SCALE: 3/16" = 1'-0"



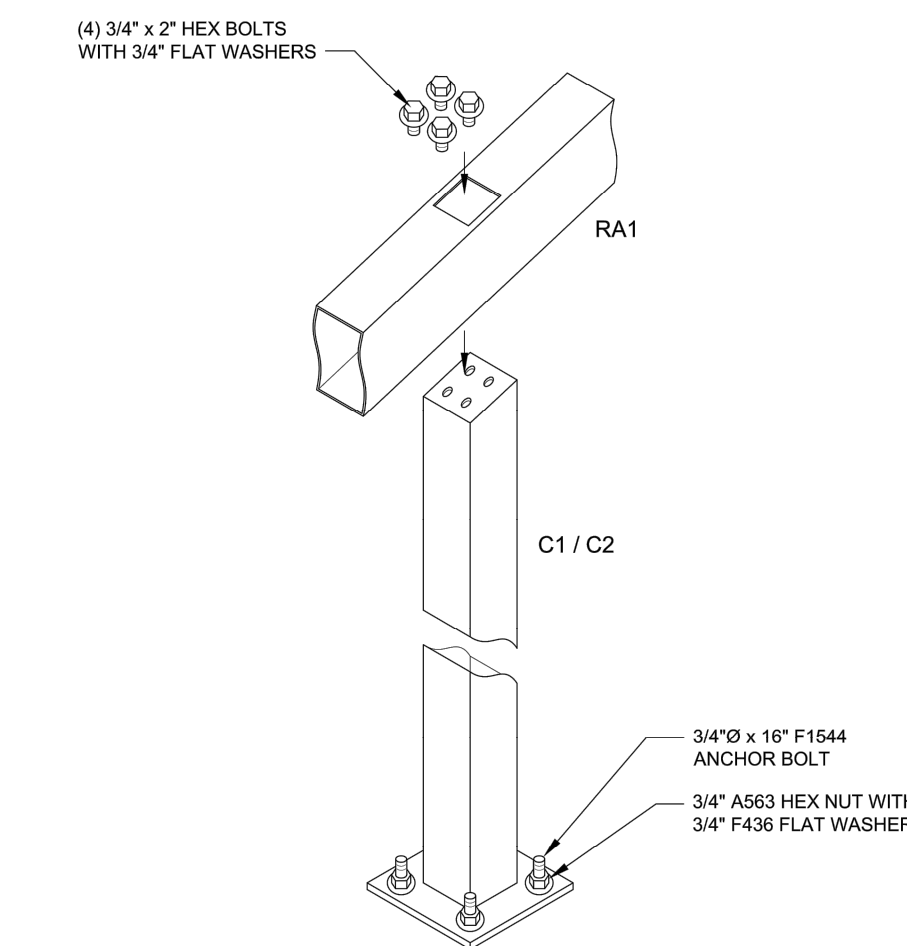
**PART 2: FRAMING**

**COLUMNS (C1) & (C2):**

1. LOWER EACH COLUMN ONTO THE ANCHOR BOLTS WITH THE HIGH POINT ORIENTATED CORRECTLY (REFER TO FRAMING PLAN & SECTION FOR LOCATIONS OF COLUMN). PLUMB COLUMNS AND SECURE TO ANCHOR BOLTS WITH 3/4" A563 HEX NUTS AND 3/4" F436 FLAT WASHERS.

**RAFTERS (RA1):**

1. RAISE AND BRACE THE RAFTER BEAMS ONTO THE COLUMNS. ATTACH RAFTER BEAMS TO COLUMNS USING (4) 3/4" x 2" HEX BOLTS AND FLAT WASHERS. LEVEL AND BRACE.



COLUMN & RAFTER BEAM INSTALLATION  
SCALE: 3/4" = 1'-0"



DEPARTMENT OF PARKS  
AND RECREATION

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3332  
Fax: 703.228.3328

20-###-ITB

Project Name and Location

Marcey  
Road Park  
Improvements  
(By Right)

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: RH  
Drawn: RH  
Checked: BR

Filename: full size sheets.dwg  
Plotted: 2021-04-26

Scale:  
Date: APRIL 26, 2021

Seal



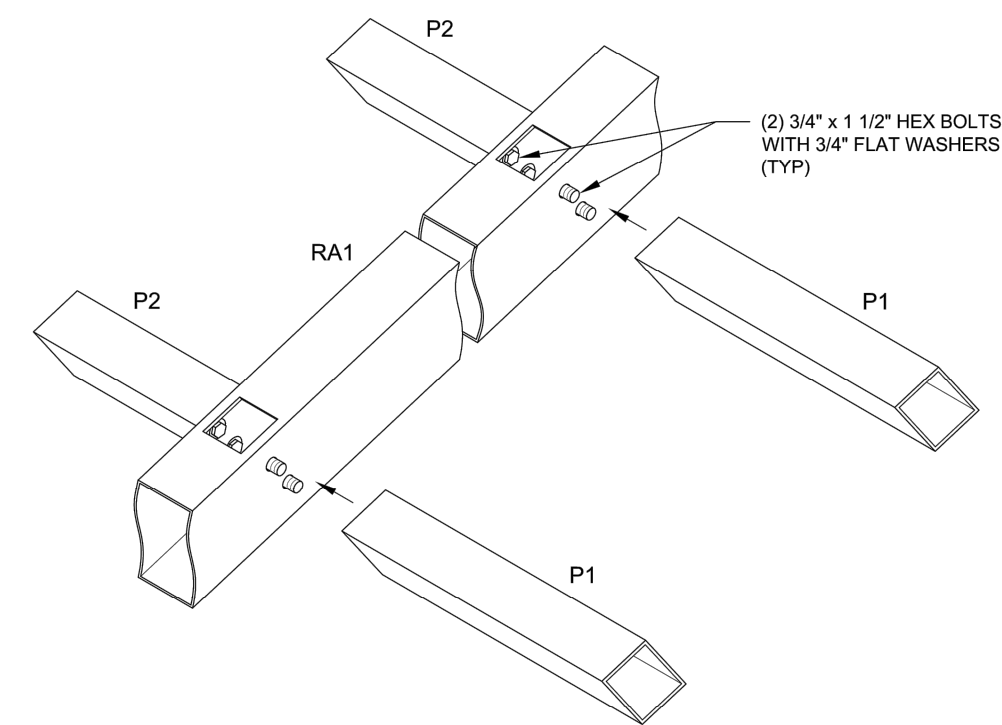
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A-01



**PURLINS (P1) & (P2):**

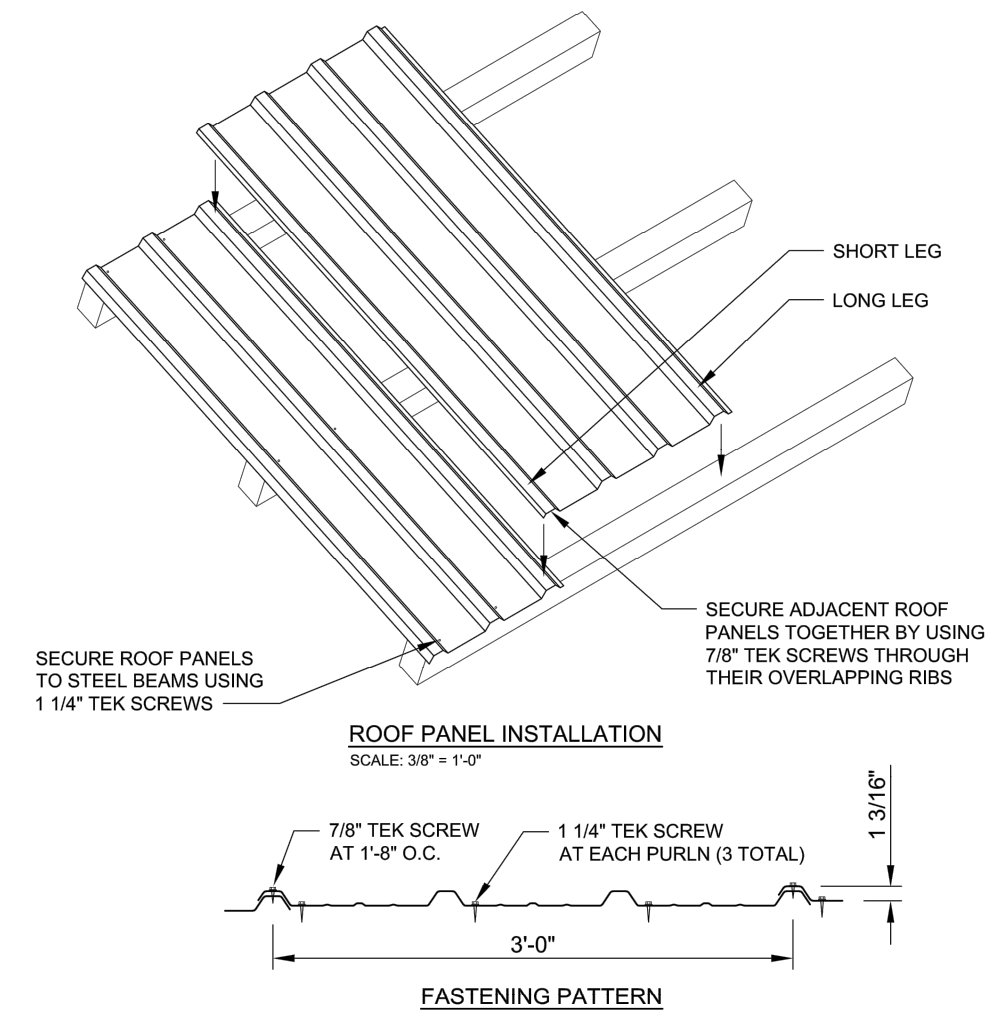
1. RAISE PURLINS INTO PLACE BY ALIGNING THE HOLES IN THE ENDS OF THE PURLINS WITH THE HOLES IN THE SIDES OF THE RAFTER BEAMS.
2. ATTACH PURLINS USING (2) 3/4" x 1 1/2" HEX BOLTS AND FLAT WASHERS (FINGER TIGHT ONLY). LEVEL AND BRACE.
3. BEFORE TIGHTENING ALL CONNECTIONS VERIFY THE SHELTER IS PROPERLY ALIGNED, LEVEL AND PLUMB.
4. TIGHTEN ALL BOLTED CONNECTIONS THROUGHOUT THE ENTIRE STRUCTURE AND DOUBLE CHECK EACH CONNECTION AGAIN AFTER ALL OTHER CONNECTIONS HAVE BEEN TIGHTENED.
5. SUPPORTS AND BRACING MAY NOW BE REMOVED.



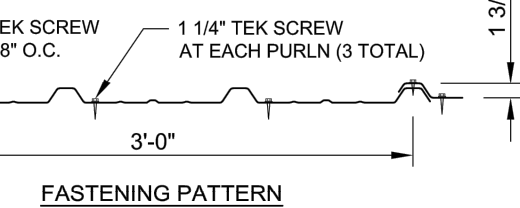
PURLIN INSTALLATION  
SCALE: 3/4" = 1'-0"

**ROOF PANELS:**

1. LAYOUT PANELS FROM LEFT TO RIGHT TO ENSURE THAT EACH PANEL'S SHORT LEG SIDE WILL OVERLAP ON TOP OF THE PREVIOUS PANEL'S LONG LEG SIDE.
2. POSITION PANELS AT THE SIDES SO THAT THE CENTER OF THE PANEL'S LAST/FIRST RIB IS EVEN WITH THE END OF THE P2 PURLINS AND ALIGN THE EAVE ENDS TO EXTEND ABOUT 1" BEYOND THE EAVE PURLINS.
3. ATTACH THE PANELS TO ALL STEEL FRAMING MEMBERS USING 1 1/4" TEK SCREWS, PLACING A SCREW AT ONE SIDE OF EACH RIB (SEE FASTENING PATTERN DETAIL BELOW).
4. ADJACENT PANELS WILL OVERLAP AT ONE RIB. USE THE 7/8" TEK SCREWS TO ATTACH THE OVERLAPPING RIBS, PLACING A SCREW AT EVERY 1'-8" (SEE FASTENING PATTERN BELOW).
5. CHECK EVERY OTHER PANEL TO MAINTAIN SQUARENESS WITH RESPECT TO THE STRUCTURE.
6. WHEN INSTALLING THE ROOF PANELS AND TRIM IT IS VERY IMPORTANT TO MAKE SURE ANY FINE METAL SHAVINGS OR DUST THAT MAY HAVE BEEN LEFT WHEN DRILLING OR CUTTING BE REMOVED FROM THE FINISHED SURFACE TO PREVENT RUST STAINS.



ROOF PANEL INSTALLATION  
SCALE: 3/8" = 1'-0"



FASTENING PATTERN

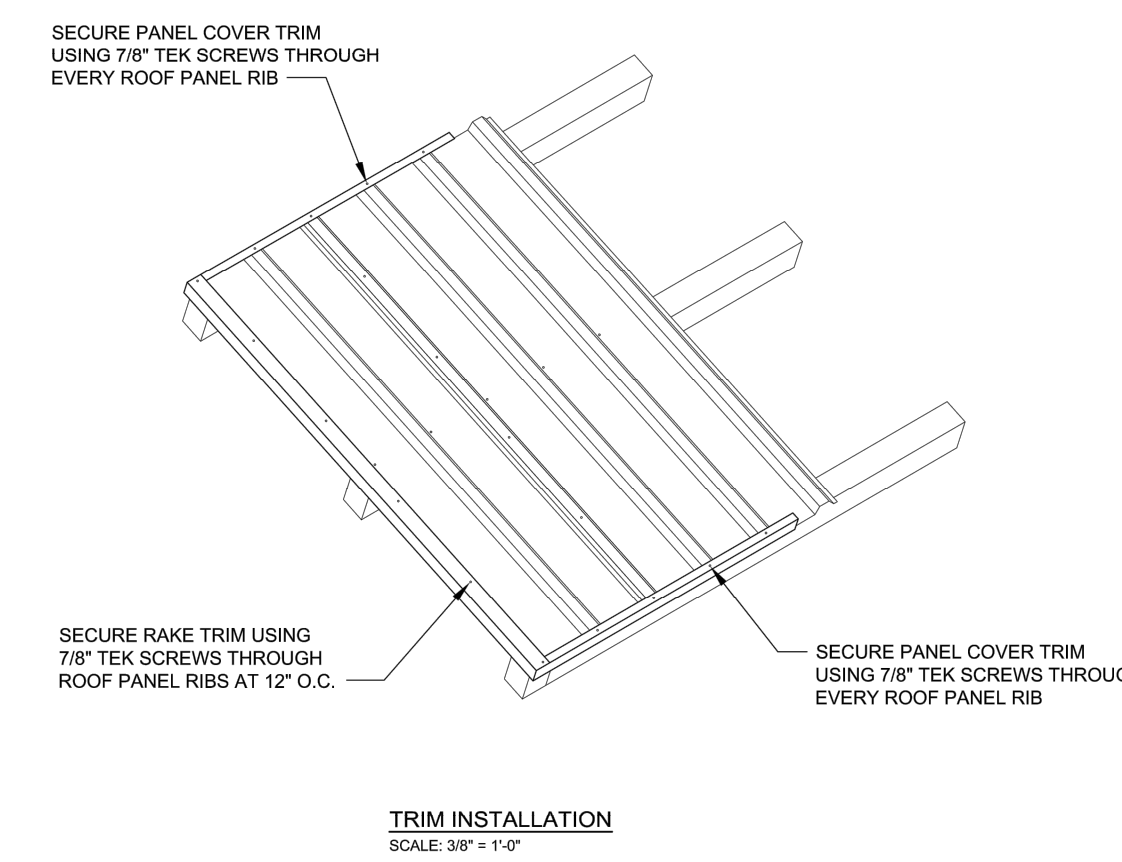
**PANEL COVER TRIM:**

1. POSITION THE COVER TRIM AGAINST THE EAVE EDGE OF THE ROOF PANELS, LEAVING AN APPROXIMATE 1/4" GAP. TRIM EXCESS LENGTH AS NEEDED. OVERLAP ENDS BY 4" TO 6".
2. SECURE TRIM BY USING 7/8" TEK SCREWS THROUGH EVERY ROOF PANEL RIB.
3. THIS TRIM MAY BE LEFT OFF IF THERE IS CONCERN OF DEBRIS BECOMING TRAPPED WITHIN.

**RAKE TRIM:**

1. POSITION THE RAKE TRIM AGAINST THE SIDES OF THE END PANELS. TRIM EXCESS LENGTH AS NEEDED. OVERLAP ENDS BY 4" TO 6".
2. SECURE TRIM BY USING 7/8" TEK SCREWS THROUGH THE PANEL RIBS AT EVERY 12".

NOTE: TRIM MATERIAL WILL BE SHIPPED WITH A PROTECTIVE PLASTIC FILM THAT WILL NEED TO BE REMOVED PRIOR TO INSTALLATION.



TRIM INSTALLATION  
SCALE: 3/8" = 1'-0"

**MAINTENANCE:**

1. DURING THE ASSEMBLY PROCESS SOME SCRAPES AND SCRATCHES MAY HAVE OCCURRED. THESE WILL REQUIRE TOUCHING UP. ALSO, OVER TIME, NORMAL USE MAY CREATE MORE SCRATCHES. FOLLOW THE STANDARD PAINT PROCEDURES LISTED ON ANY SPRAY PAINT CAN. HOWEVER, IT IS IMPORTANT TO REMOVE ALL LOOSE PAINT, GREASE, OIL AND/OR RUST BEFORE LIGHTLY SANDING SURROUNDING PAINT FOR GOOD ADHESION. ADDITIONAL MATCHING TOUCH-UP PAINT IS AVAILABLE UPON REQUEST AT AN ADDITIONAL COST.
2. CLEAN THE STEEL SURFACES PERIODICALLY USING A MILD CLEANING SOLUTION, AND HAND-WIPE TO MAINTAIN "LIKE NEW" APPEARANCE.
3. PERIODICALLY CHECK FOR DEBRIS THAT MAY HAVE GOTTEN STUCK WITHIN THE ROOF TRIM AND REMOVE.

20-###-ITB

Project Name and Location

**Marcey  
Road Park  
Improvements  
(By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

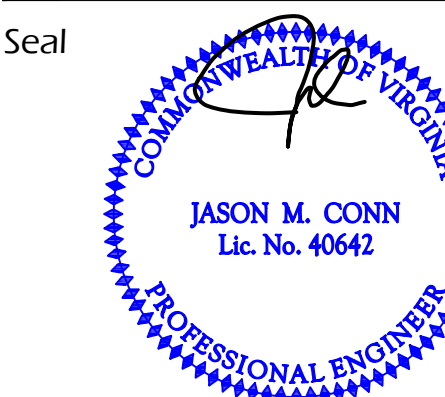
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Designed: RH  
Drawn: RH  
Checked: BR

Filename: full size sheets.dwg  
Plotted: 2021-04-26

Scale:  
Date: APRIL 26, 2021

Seal



Sheet

**A-02**

**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**

(County Project)

2722 MARCEY ROAD  
ARLINGTON, VA 22207

Sheet Title

**SHADE  
STRUCTURE  
FOOTING &  
STEEL FRAME**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW

Drawn: AMT

Checked: SDT, JKS, MMW, CMB

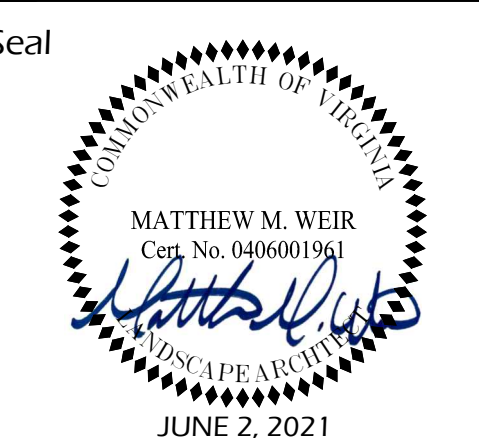
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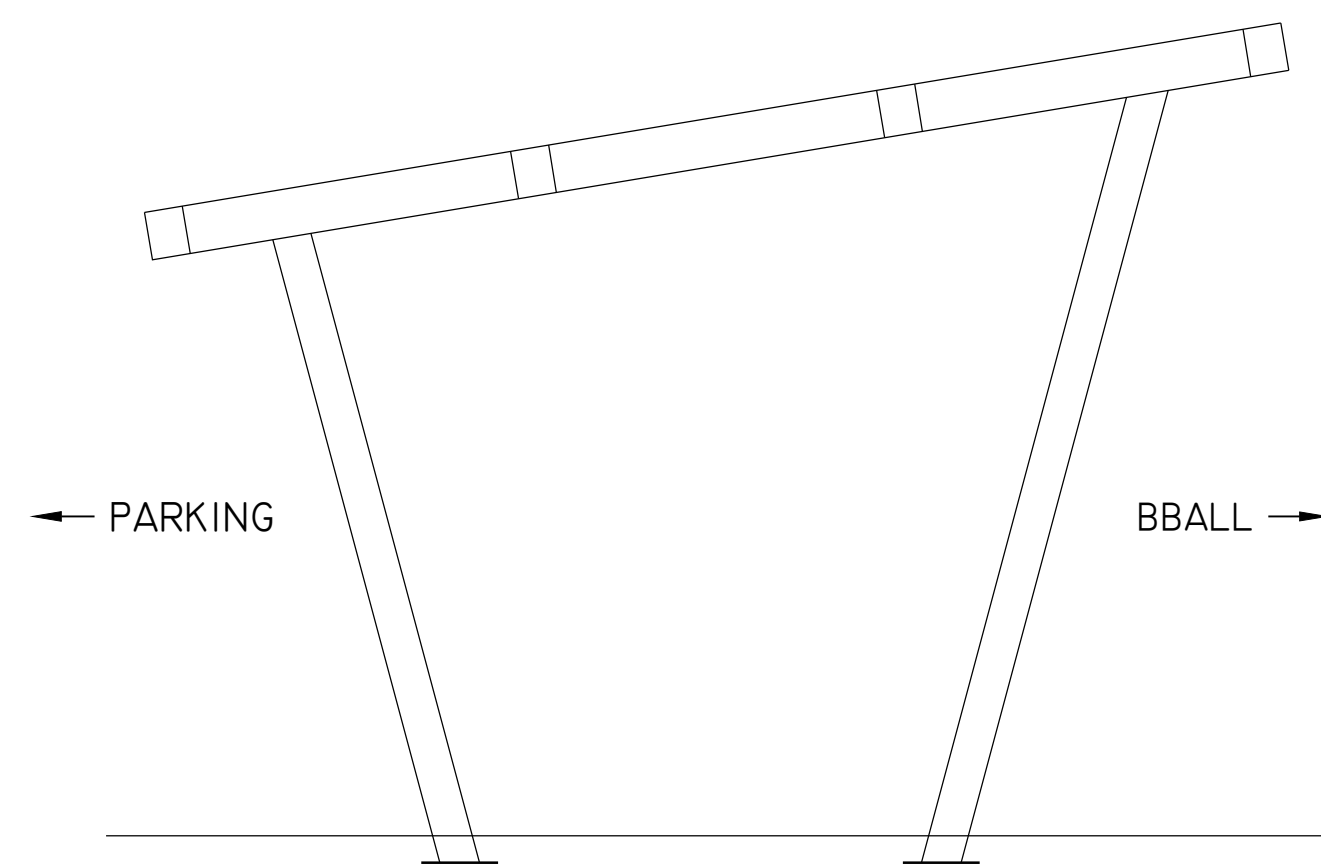
Date: JUNE 2, 2021

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Sheet

**A-03**



**NOTES:**

- SEE A-01 AND A-02 FOR ADDITIONAL REQUIREMENTS.
- SHADE STRUCTURE SHALL BE BY COVERWORX RECREATIONAL ARCHITECTURE, OR APPROVED EQUAL. STRUCTURE TYPE: MONO-SLOPE CANTILEVER | STRUCTURE DIMENSIONS: 16' X 30'-0"
- COVERWORX INFORMATION:  
ADDRESS: 11800 EAST 9 MILE ROAD, WARREN, MI 48089  
CONTACT: 586-486-1088 OR 800-657-6118 (PHONE) | 586-754-9130 (FAX)  
COVERWORX.COM (WEBSITE) | INFO@COVERWORX.COM (EMAIL)
- DESIGN CRITERIA PER ARLINGTON COUNTY, VIRGINIA INSPECTION SERVICES DIVISION
- SEE SPEC SECTION 133419 FOR MANUFACTURER'S CONTACT INFORMATION (MTS RECREATION).
- PRIOR TO BID, ARLINGTON COUNTY DPR WILL PAY THE FEE TO INITIATE THE BUILDING PERMIT PROCESS FOR THE COVERWORX SHADE STRUCTURE AND THE DRAWINGS SHOWN ON THIS SHEET. UPON BID AWARD, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE STATEMENT OF SPECIAL INSPECTION IN ORDER TO OBTAIN THE FINAL BUILDING PERMIT. UPON REQUEST, ARLINGTON COUNTY MAY PROVIDE THE MANUFACTURER'S ENGINEERING CALCULATIONS BOOK TO THE GENERAL CONTRACTOR. THE DRAWINGS AND CALCULATIONS BOOK ARE SIGNED/SEALED BY A VIRGINIA LICENSED PROFESSIONAL STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH DRAWINGS, CALCULATIONS AND REQUIREMENTS OF ARLINGTON COUNTY BUILDING PERMIT.
- IF AN APPROVED EQUAL IS USED, IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A NEW BUILDING PERMIT, PRIOR TO CONSTRUCTION, FOR REVIEW AND APPROVAL BY DPR PROJECT OFFICER AND LANDSCAPE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF VIRGINIA, AT NO ADDITIONAL EXPENSE TO THE COUNTY. THE SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO: CALCULATIONS, THE REINFORCED CONCRETE FOOTINGS, ANCHOR BOLTS CONNECTION, FASTENERS, STEEL BASE PLATE, STEEL COLUMNS, STEEL FRAMING, ROOFING, FINISHING, COLORS, AND ALL ASSOCIATED HARDWARE.

**SHELTER COLOR OPTIONS:**

ALTHOUGH THE COLORS FOR THE ROOF AND FRAME ARE SPECIFIED IN THE SPECIFICATIONS, THE GENERAL CONTRACTOR SHALL PROVIDE PHYSICAL SAMPLES OF THE MANUFACTURER'S FULL RANGE OF COLORS FOR REVIEW, VERIFICATION AND FINAL SELECTION BY ARLINGTON COUNTY LANDSCAPE ARCHITECT.

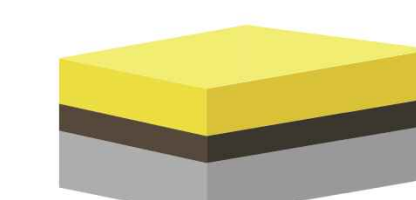
**ROOF COLORS**

McDonalds Yellow	Casco Orange	Champagne Metallic
Texas Silver Metallic	Preweathered Galvalume	Leadcoat
Terra Cotta	Buckskin	Silver Metallic
Almond	Bone White	Sandstone
Slate Gray	Dark Bronze	Mansard Brown
Patina Green	Colonial Red	Medium Bronze
Brite Red	Copper Penny	Regal Blue
Hartford Green	Brandywine	Evergreen
Roman Blue	Matte Black	Ash Gray
Surrey Beige	Regal White	Charcoal
Patrician Bronze	Galvalume Plus	

**POWDER COATING (FRAME) COLORS**

Standard RAL Powder colors are also available for only frame color choices

Hartford Green	Charcoal	Patina Green
Brandywine	Patrician Bronze	Colonial Red
Evergreen	Bone White	Medium Bronze
Roman Blue	Sandstone	Brite Red
Matte Black	Slate Gray	Regal Blue
Ash Grey	Dark Bronze	Autumn Red
Surrey Beige	Mansard Brown	Tudor Brown
Regal White	Light Stone	Timber Tan
Clay		



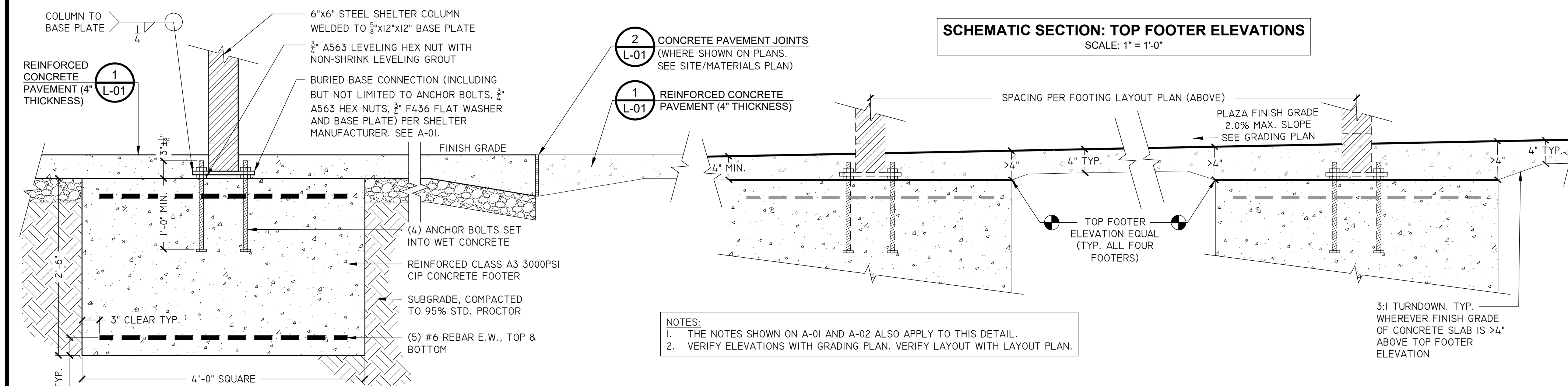
**Powder coating with zinc rich primer and TGIC polyester**

Shot blasted steel with factory applied zinc rich primer and TGIC Polyester (5-6 mil min. thickness on exterior and 3 mil min. thickness on interior).

Note: An Optional Super Durable TGIC and graffiti resistant TGIC color or clear coat is available for an upcharge.

**SCHEMATIC SECTION: TOP FOOTER ELEVATIONS**

SCALE: 1" = 1'-0"



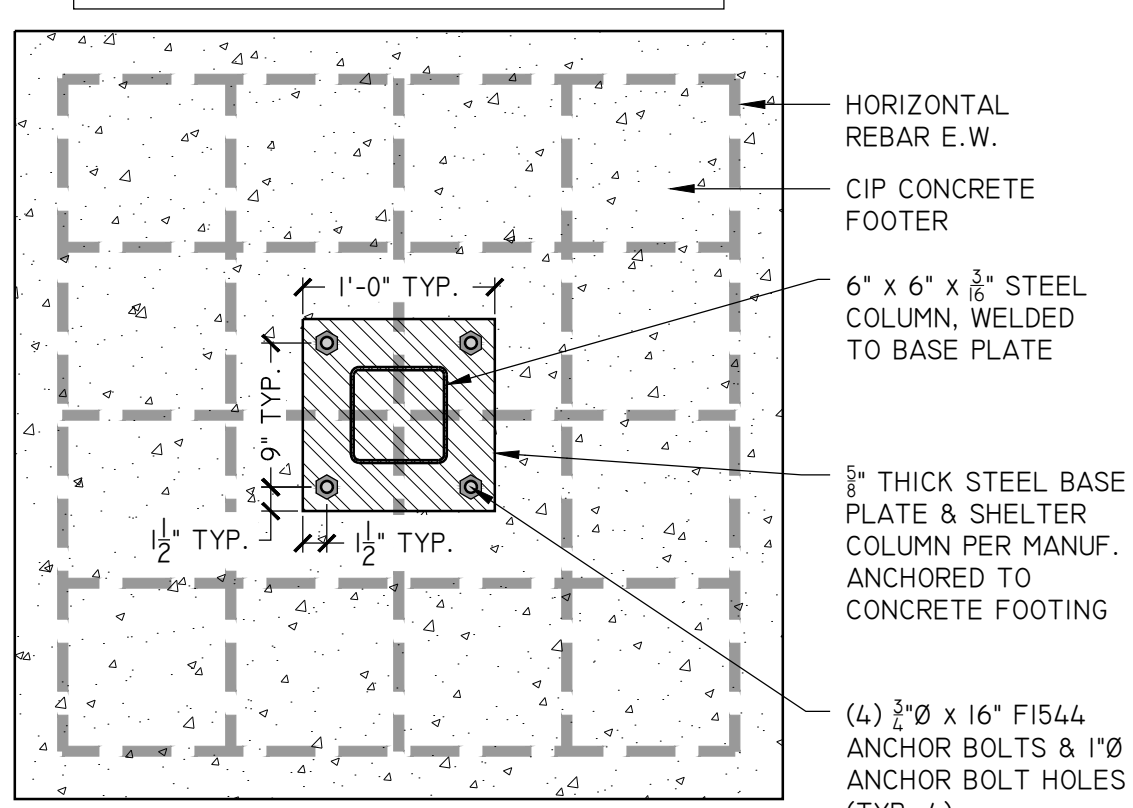
- NOTES:**
- THE NOTES SHOWN ON A-01 AND A-02 ALSO APPLY TO THIS DETAIL.
  - VERIFY ELEVATIONS WITH GRADING PLAN. VERIFY LAYOUT WITH LAYOUT PLAN.

**FOOTING SECTION**

SCALE: 1" = 1'-0"

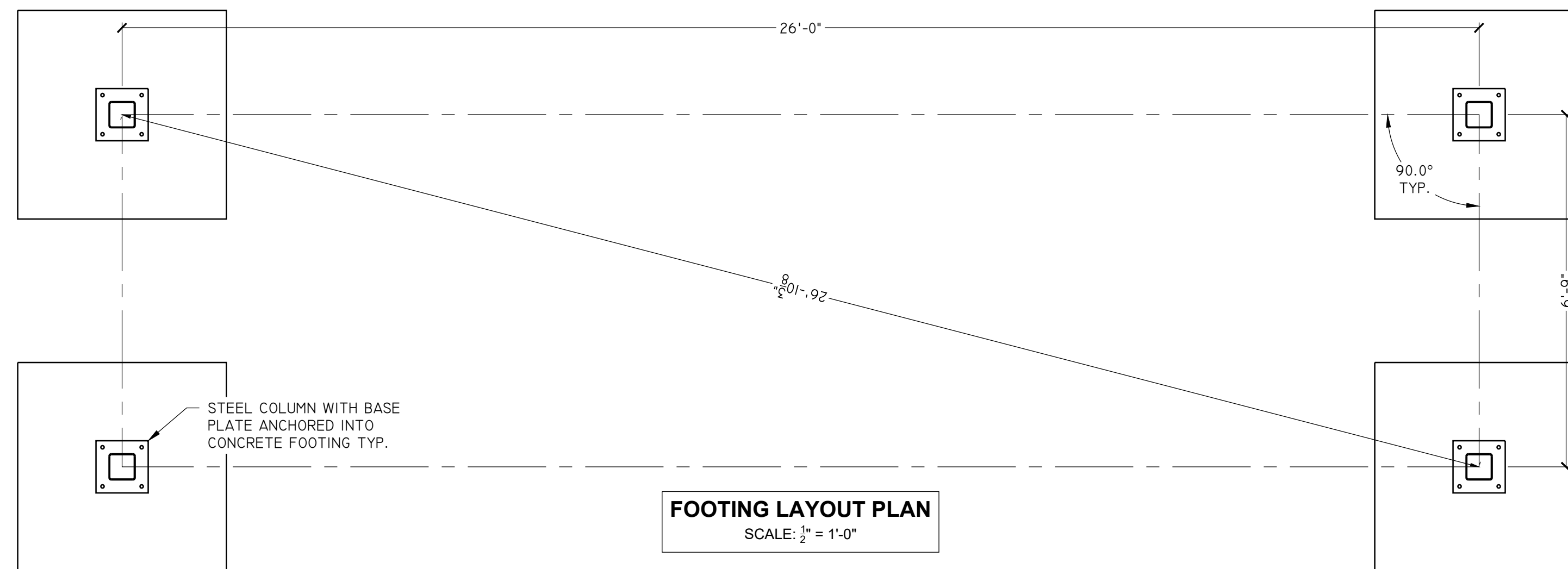
**BASE PLATE ANCHOR LAYOUT**

SCALE: 1" = 1'-0"



**FOOTING LAYOUT PLAN**

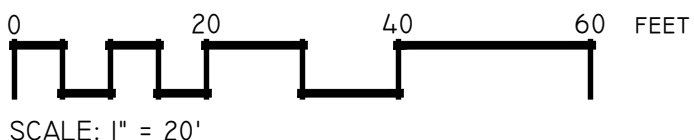
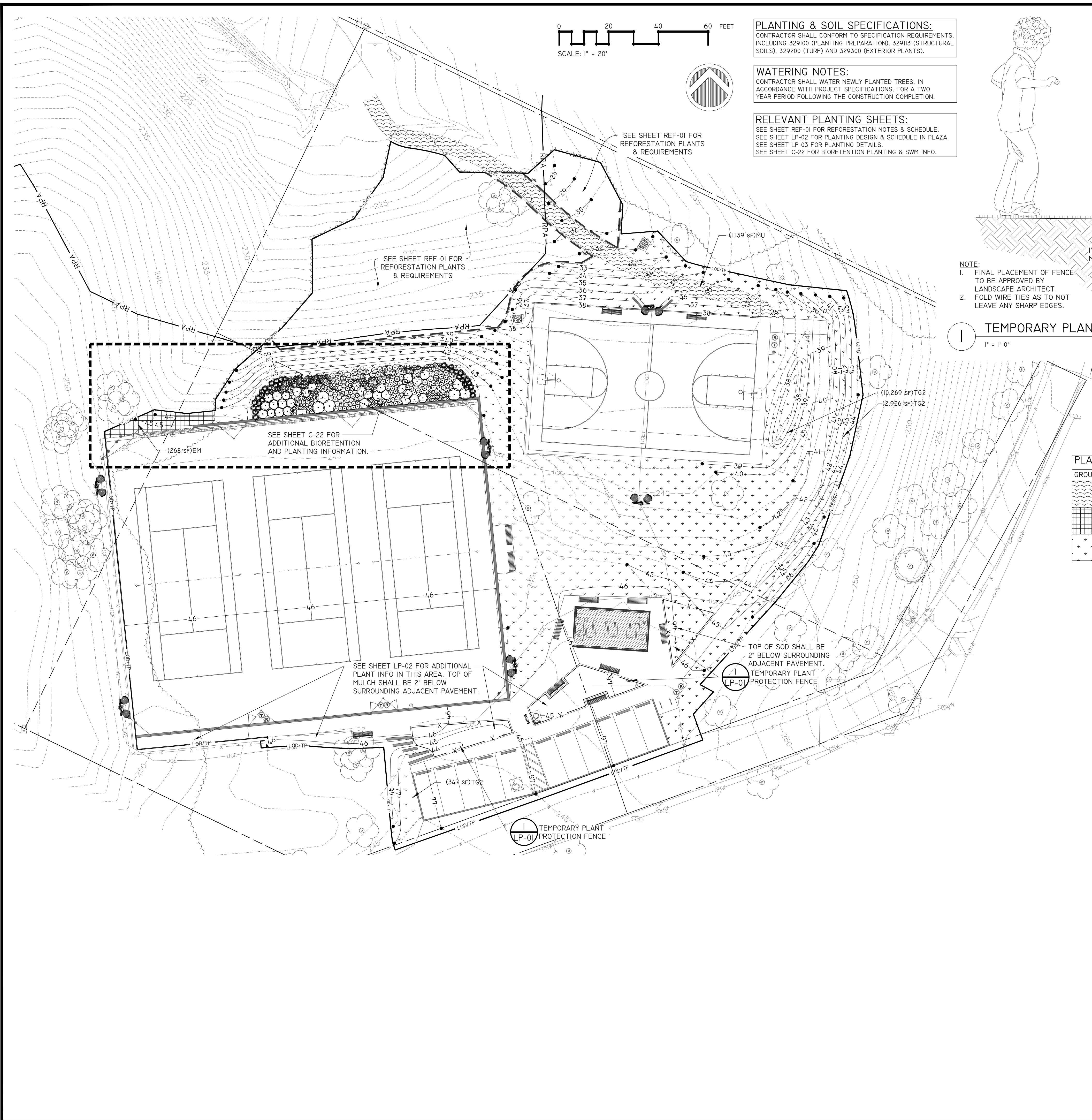
SCALE: 1/2" = 1'-0"



**SHADE STRUCTURE FOOTING & STEEL FRAME**

1" = 1'-0"

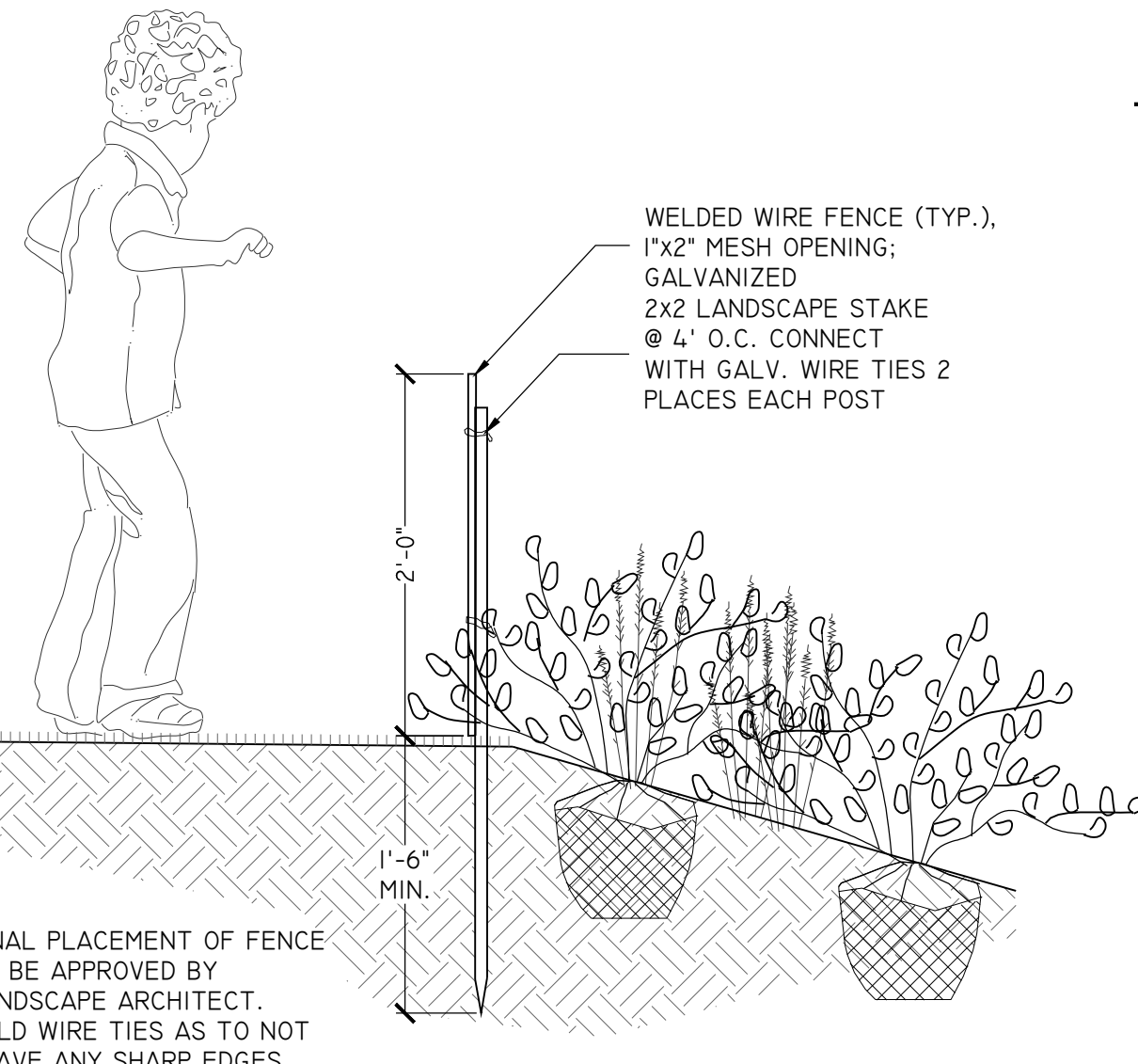
13-15



**PLANTING & SOIL SPECIFICATIONS:**  
 CONTRACTOR SHALL CONFORM TO SPECIFICATION REQUIREMENTS, INCLUDING 329100 (PLANTING PREPARATION), 329113 (STRUCTURAL SOILS), 329200 (TURF) AND 329300 (EXTERIOR PLANTS).

**WATERING NOTES:**  
 CONTRACTOR SHALL WATER NEWLY PLANTED TREES, IN ACCORDANCE WITH PROJECT SPECIFICATIONS, FOR A TWO YEAR PERIOD FOLLOWING THE CONSTRUCTION COMPLETION.

**RELEVANT PLANTING SHEETS:**  
 SEE SHEET REF-01 FOR REFORESTATION NOTES & SCHEDULE.  
 SEE SHEET LP-02 FOR PLANTING DESIGN & SCHEDULE IN PLAZA.  
 SEE SHEET LP-03 FOR PLANTING DETAILS.  
 SEE SHEET C-22 FOR BIORETENTION PLANTING & SWM INFO.



**NOTE:**  
 1. FINAL PLACEMENT OF FENCE TO BE APPROVED BY LANDSCAPE ARCHITECT.  
 2. FOLD WIRE TIES AS TO NOT LEAVE ANY SHARP EDGES.

**TEMPORARY PLANT PROTECTION FENCE**  
 1' = 1'-0"

**PROPOSED SITE LEGEND**

---	LIMITS OF DISTURBANCE / TREE PROTECTION FENCE	4/LF-03
---	LIMIT OF WORK (NO GROUND DISTURBANCE)	
---	REFORESTATION AREA	7/L-05
---	PARKING LOT	4
---	FLUSH CURB	6/L-02
---	CONCRETE PAVEMENT & SCORE JOINTS	1/L-01 2/L-01 6/L-01 3/L-01
---	TENNIS SEGMENTAL BLOCK WALL	1/L-03
---	CHAIN LINK FENCE ON CONCRETE CURB	1/L-07
---	CHAIN LINK FENCE & GATES	3/L-07 5/L-07 4/L-07 2/L-08
---	PARKING SPACE STRIPING WITH WHEEL STOP	1/L-02 2/L-02 4/L-02 6/L-02
---	ADA ACCESS AISLE	1/L-02 6/L-02
---	SHADE STRUCTURE	A-01 - A-03
---	NATURE / PARK ACCESS TRAIL - 3\"/>	
---	STEPPER BLOCK STEPS	5/L-02
---	TENNIS COURT PRACTICE WALL	2/L-03
---	STORM DRAIN INFRASTRUCTURE	SEE C-12, C-16 & 1/L-03C

**GRADING LEGEND**

---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR

**PLANT SCHEDULE (THIS SHEET ONLY) - EXCLUDES BIORETENTION, LP-02 AND REFORESTATION**

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
MULCH TRAIL	MU	1,139 SF	3\"/>		
EM	268 SF		NATIVE SEED MIX FOR STEEP SLOPES / ERNST SEED MIX ERNMX-I4.0 OR APPROVED EQUAL	SEED	
TG2	13,542 SF		TURFGRASS SOD / TURF PER SPECIFICATIONS	AREA	



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location

**Marcey Road Park Improvements (By Right)**

(County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title

**PLANTING PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_

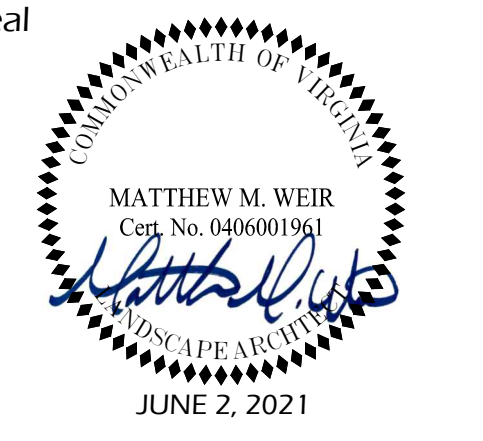
Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: AW  
 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB

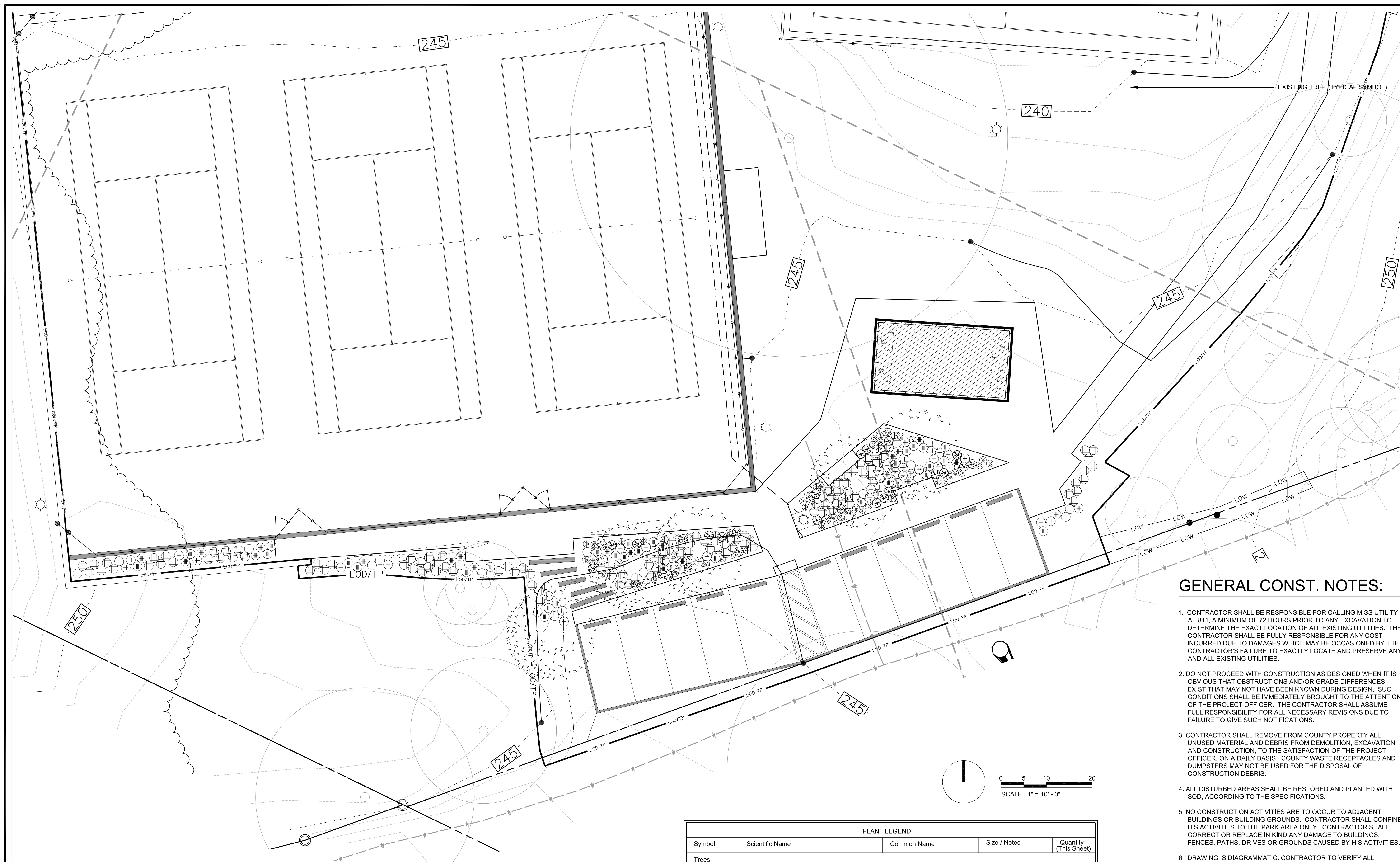
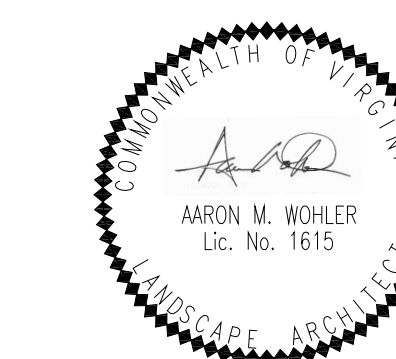
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 Plotted: 2021-06-02

Scale: 1' = 20'  
 Date: JUNE 2, 2021



Sheet

**LP-01**



**GENERAL CONST. NOTES:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING MISS UTILITY AT 811. A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY COST INCURRED DUE TO DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
- DO NOT PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT OFFICER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- CONTRACTOR SHALL REMOVE FROM COUNTY PROPERTY ALL UNUSED MATERIAL AND DEBRIS FROM DEMOLITION, EXCAVATION AND CONSTRUCTION, TO THE SATISFACTION OF THE PROJECT OFFICER, ON A DAILY BASIS. COUNTY WASTE RECEPTACLES AND DUMPSTERS MAY NOT BE USED FOR THE DISPOSAL OF CONSTRUCTION DEBRIS.
- ALL DISTURBED AREAS SHALL BE RESTORED AND PLANTED WITH SOD, ACCORDING TO THE SPECIFICATIONS.
- NO CONSTRUCTION ACTIVITIES ARE TO OCCUR TO ADJACENT BUILDINGS OR BUILDING GROUNDS. CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PARK AREA ONLY. CONTRACTOR SHALL CORRECT OR REPLACE IN KIND ANY DAMAGE TO BUILDINGS, FENCES, PATHS, DRIVES OR GROUNDS CAUSED BY HIS ACTIVITIES.
- DRAWING IS DIAGRAMMATIC; CONTRACTOR TO VERIFY ALL LOCATIONS AND CONDITIONS ON SITE. COUNT ALL PLANT MATERIAL BEFORE BIDDING.
- FINISH GRADE TO BE 1" BELOW ALL WALKS, CURBS, AND PAVING.
- CONTRACTOR TO REPAIR AT HIS OWN EXPENSE ALL PROPERTY DAMAGE WHICH OCCURS DURING PROJECT INSTALLATION.
- ALL PLANTING TO BE DONE ACCORDING TO THE PLANS AND SPECIFICATIONS. SITE VISIT W/PROJECT OFFICER IS MANDATORY BEFORE BEGINNING WORK. REFER TO REFORESTATION PLAN AND STORMWATER MANAGEMENT PLANS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL REMOVE ALL EXISTING INVASIVE PLANT SPECIES FROM THE SITE. PRIOR TO PLANTING, CONTRACTOR SHALL COORDINATE ALL EFFORTS TO IDENTIFY AND REMOVE SUCH INVASIVE PLANT MATERIAL WITH THE COUNTY FORESTRY AND LANDSCAPING DIVISION SUPERVISOR AT (703) 228.7747.

**TREE REPLACEMENT SCHEDULE:**

REQUIREMENTS PER AC DPW TREE REPLACEMENT STANDARDS (AS PER SHEET LF-04)

TREES TO BE REMOVED <10" DBH: 3

TREES TO BE REMOVED >10" DBH: 2

NOTE: THE TREE REPLACEMENT EXCEEDS THE REQUIREMENT, DUE TO THE INCREASE OF TREES AND OVER-ALL TREE CANOPY PROVIDED BY THE REFORESTATION PLAN.

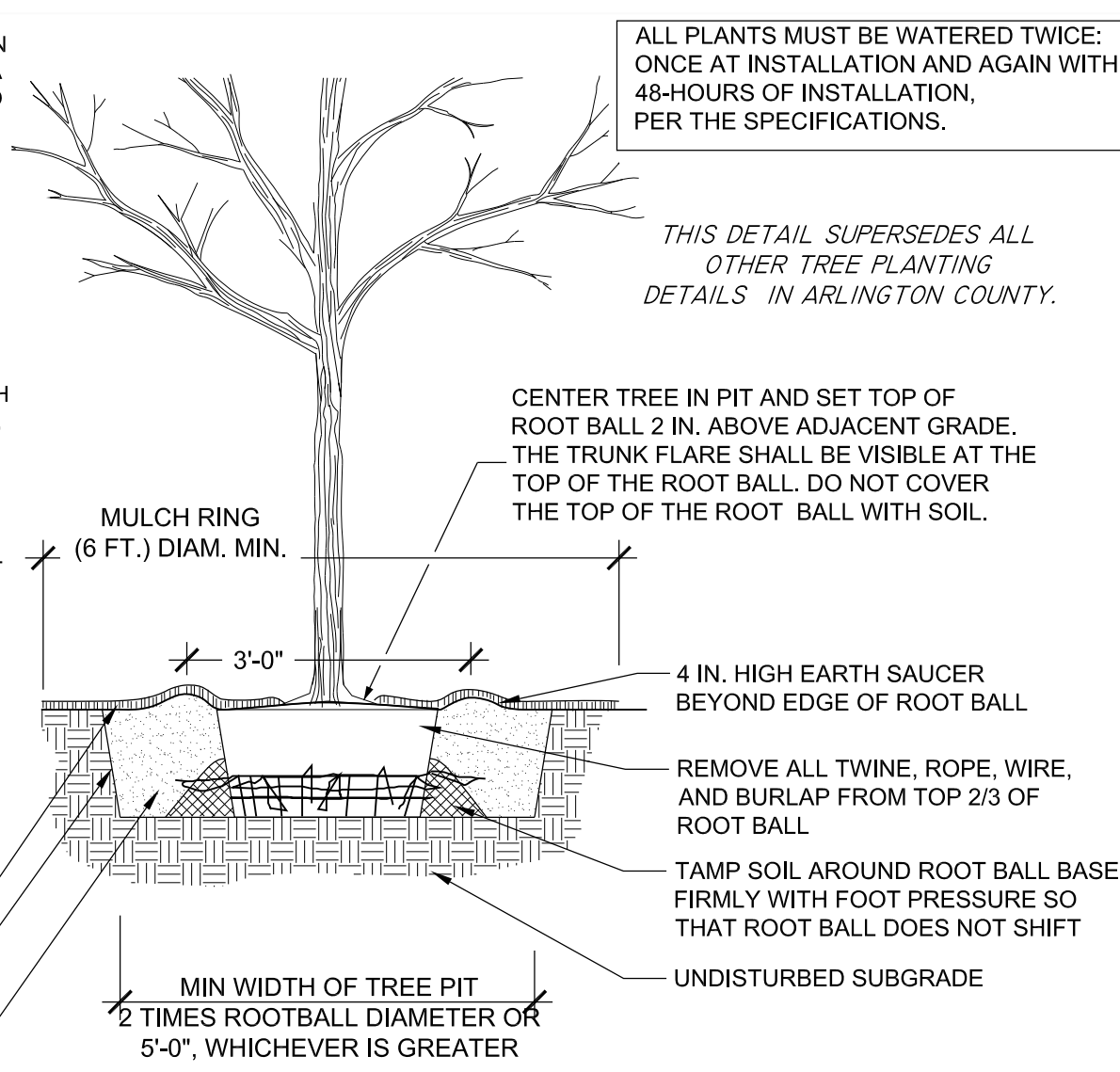
**PLANTING NOTES:**

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE TO ARLINGTON COUNTY LANDSCAPE STANDARDS (CURRENT EDITION).
- INSTALL PLANTS ACCORDING TO PLANS AND SPECIFICATIONS.
- STREET TREES AND GROUND COVER SHALL BE PLANTED ACCORDING TO CURRENT ARLINGTON COUNTY LANDSCAPE STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PER ARLINGTON COUNTY ADMINISTRATIVE REGULATION NO. 4.3.
- REFER TO STORMWATER MANAGEMENT AND REFORESTATION PLANS FOR FURTHER PLANTING INFORMATION. REFORESTATION PLANT PLACEMENT SHALL BE DETERMINED IN THE FIELD BY THE URBAN FORESTER AND LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.

PLANT LEGEND				
Symbol	Scientific Name	Common Name	Size / Notes	Quantity (This Sheet)
<b>Trees</b>				
	<i>Platanus occidentalis</i>	American Sycamore	8-10'	5
<b>Grasses</b>				
	<i>Panicum virgatum 'North Wind'</i>	Blue Switchgrass	1Gal	120
	<i>Panicum virgatum 'Shanandoah'</i>	Switchgrass	1Gal	112
<b>Perennials</b>				
	<i>Coreopsis verticillata</i>	Threadleaf Coreopsis	1Gal	28
	<i>Penstemon digitalis</i>	Beardtongue	1Gal	50

**NOTES**

1. AT PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS PER ANSI STANDARD A300. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
2. CONTRACTOR SHALL MAXIMIZE EXCAVATED AREA FOR TREE PIT WITHOUT ADVERSELY IMPACTING ADJACENT SITE FEATURES.
3. UNLESS OTHERWISE DIRECTED BY ARLINGTON COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).
4. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.
5. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.
6. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER, REFER TO STAKING DETAILS.



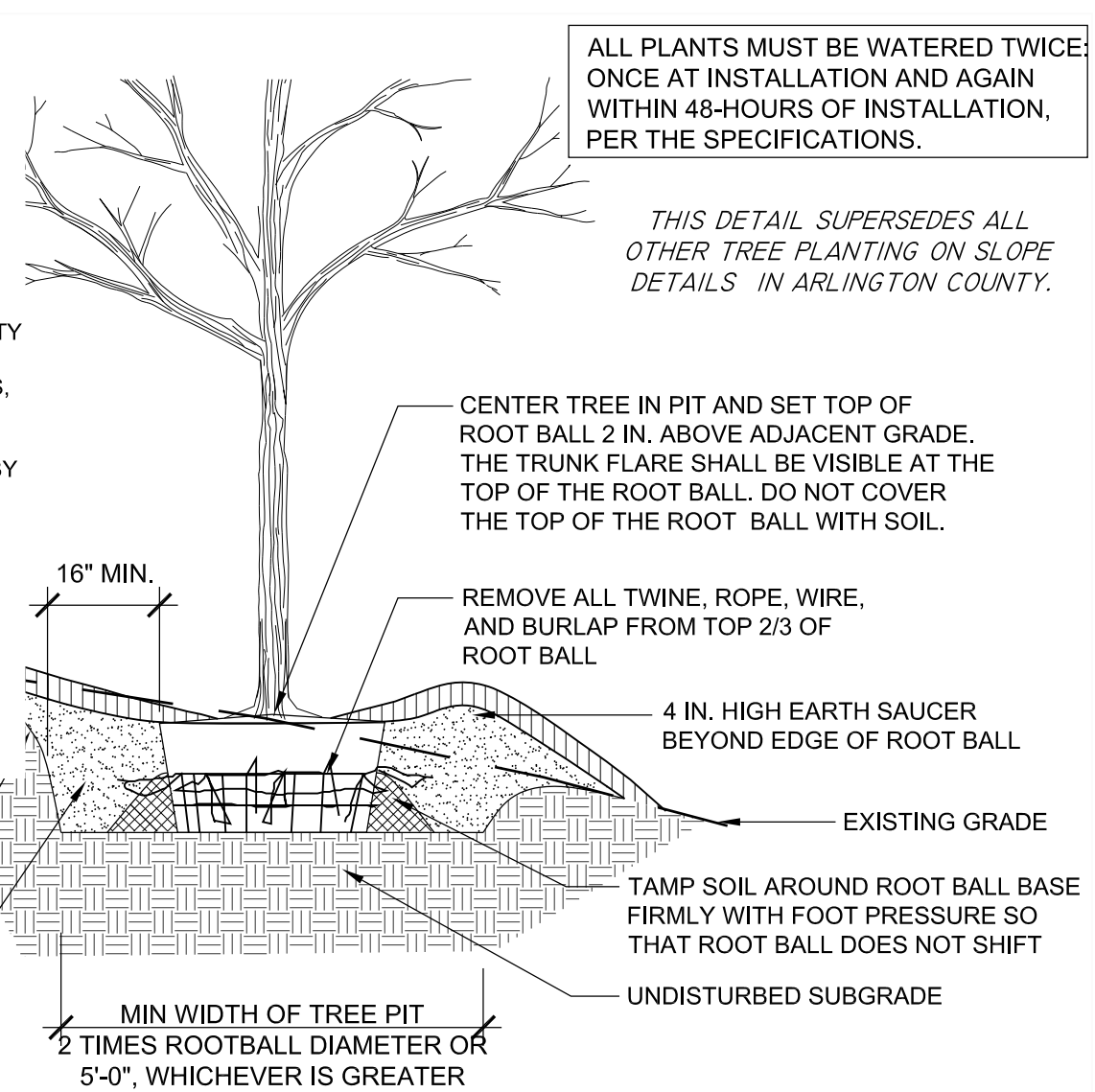
ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.

THIS DETAIL SUPERSEDES ALL OTHER TREE PLANTING DETAILS IN ARLINGTON COUNTY.

**1 TREE PLANTING DETAIL**  
 LP-03 FOR OPEN PLANTING AREAS FREE OF PAVING OR GRATES  
 329300.1 (2019) NOT TO SCALE

**NOTES**

1. AT PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS PER ANSI STANDARD A300. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
2. CONTRACTOR SHALL MAXIMIZE EXCAVATED AREA FOR TREE PIT WITHOUT ADVERSELY IMPACTING ADJACENT SITE FEATURES.
3. UNLESS OTHERWISE DIRECTED BY THE ARLINGTON COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).
4. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.
5. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.
6. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER, REFER TO STAKING DETAILS.



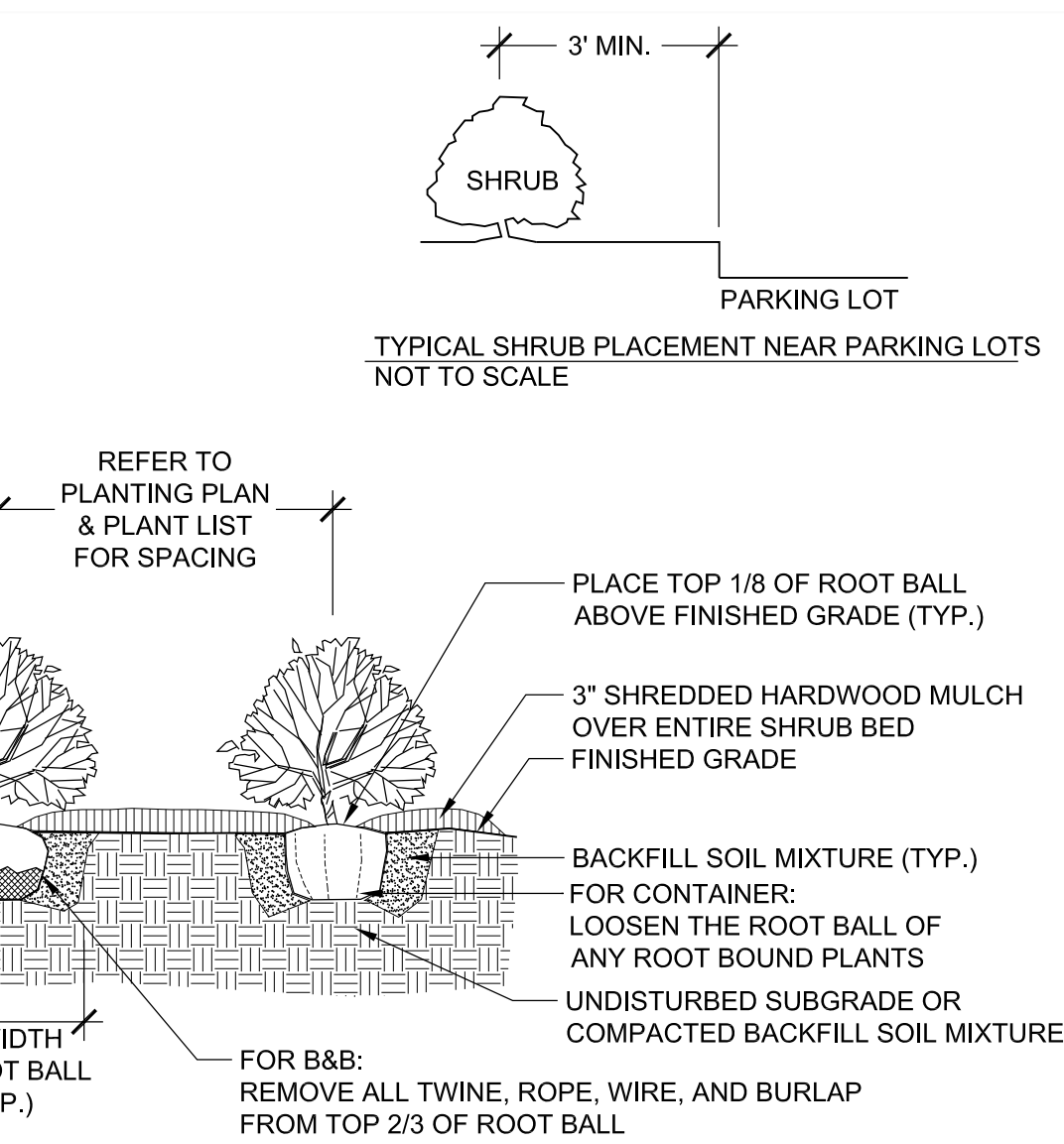
ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.

THIS DETAIL SUPERSEDES ALL OTHER TREE PLANTING ON SLOPE DETAILS IN ARLINGTON COUNTY.

**2 TREE PLANTING ON SLOPE**  
 LP-03 FOR OPEN PLANTING AREAS FREE OF PAVING OR GRATES  
 329300.2 (2019) 1/2" = 1'-0" NOT TO SCALE

**NOTES**

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES PER ANSI 300 STANDARD.
2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.
3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS IN THE CENTER OF THE PLANTING PIT. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.
4. UNLESS OTHERWISE DIRECTED BY COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).
5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.
6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF SHRUBS

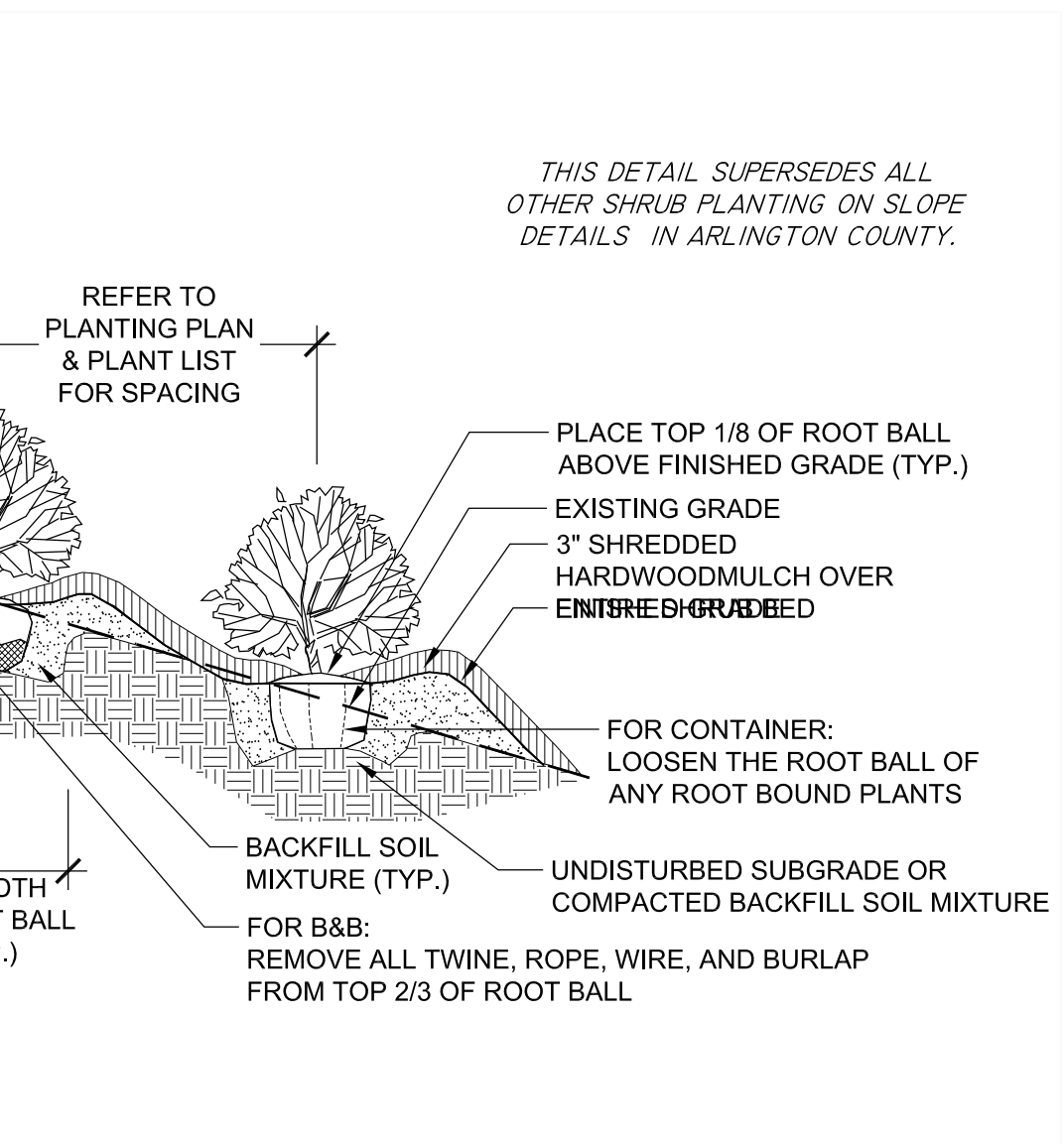


THIS DETAIL SUPERSEDES ALL OTHER SHRUB PLANTING DETAILS IN ARLINGTON COUNTY.

**4 SHRUB PLANTING**  
 LP-03 ELEVATION 329300.8 (2019) NOT TO SCALE

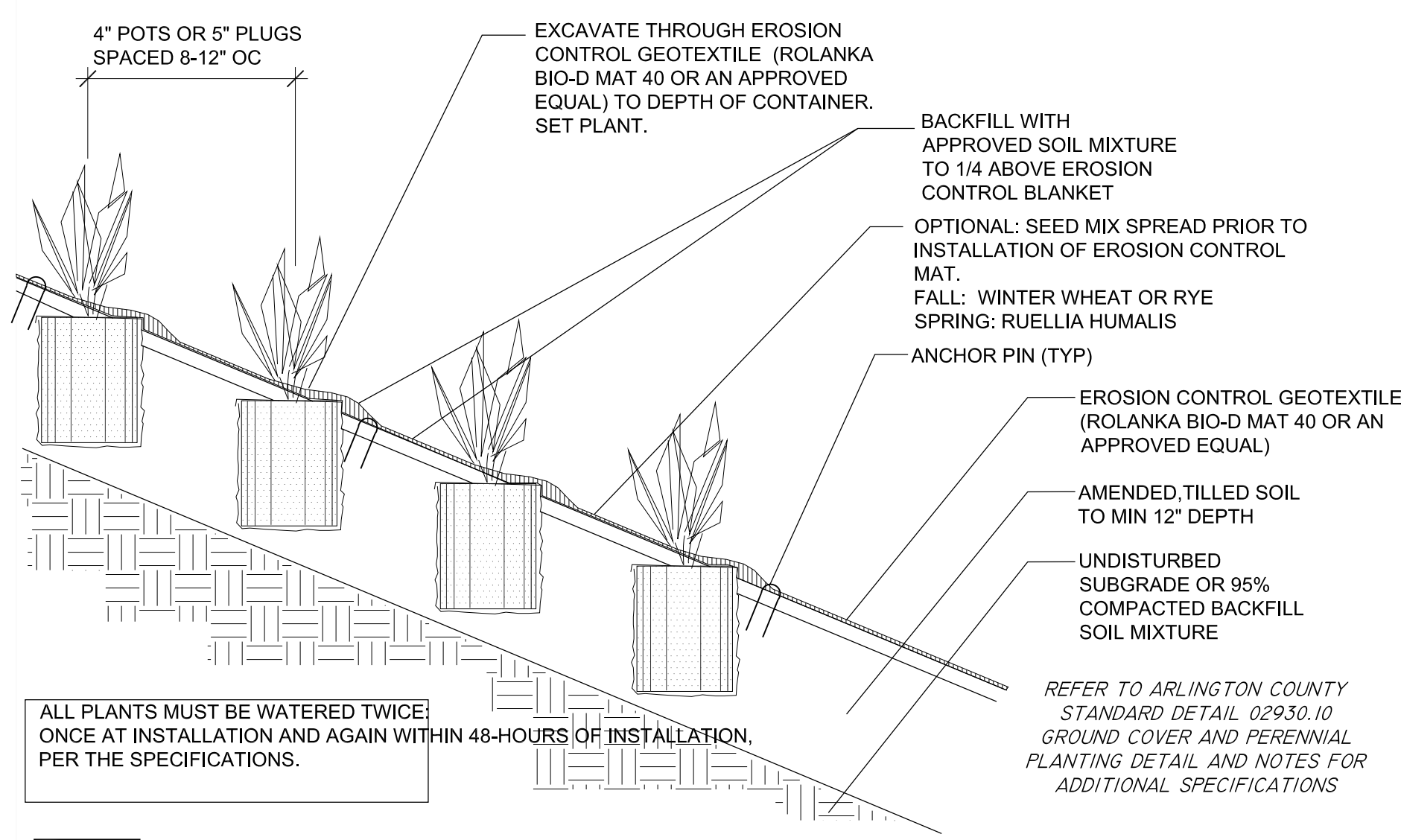
**NOTES**

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES
2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.
3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS IN THE CENTER OF THE PLANTING PIT. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.
4. UNLESS OTHERWISE DIRECTED BY PROJECT SPECIFICATIONS AND/OR ARLINGTON COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).
5. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.
6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF SHRUBS



THIS DETAIL SUPERSEDES ALL OTHER SHRUB PLANTING ON SLOPE DETAILS IN ARLINGTON COUNTY.

**5 SHRUB PLANTING ON SLOPE**  
 LP-03 ELEVATION 329300.9 (2019) NOT TO SCALE



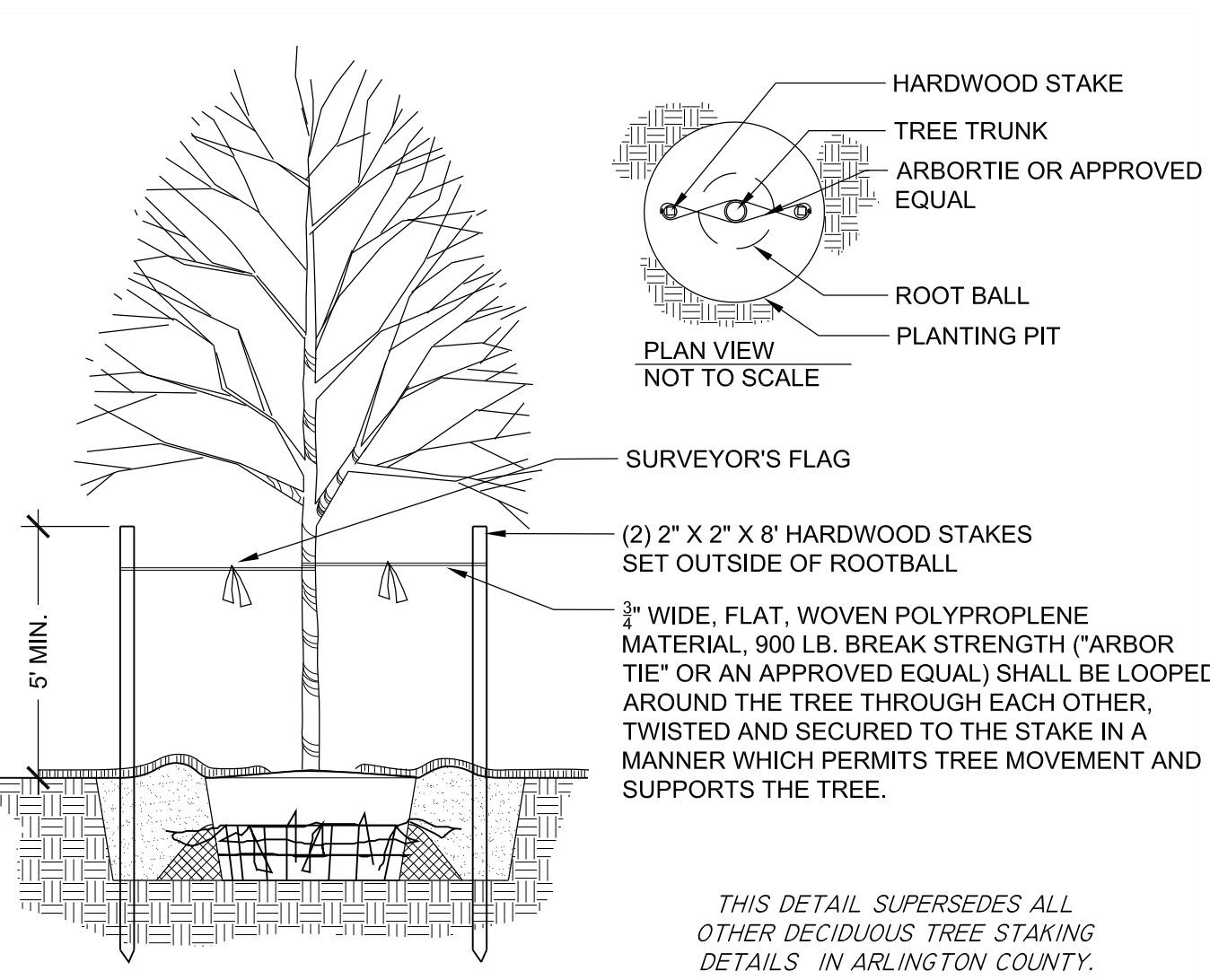
ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.

REFER TO ARLINGTON COUNTY STANDARD DETAIL 02930.10 GROUND COVER AND PERENNIAL PLANTING DETAIL AND NOTES FOR ADDITIONAL SPECIFICATIONS.

**7 GROUND COVER & PERENNIAL PLANTING ON SLOPE**  
 LP-03 ELEVATION 329300.12 (2016) NOT TO SCALE

**NOTES**

1. STAKING AND GUYING MAY ONLY BE IMPLEMENTED WHERE SITE CONDITIONS WARRANT THEIR USE. PLANTED TREES WILL BE ASSESSED INDIVIDUALLY BY ARLINGTON COUNTY URBAN FORESTER. STAKING AND GUYING WILL BE INSTALLED ONLY IF REQUIRED BY ARLINGTON COUNTY URBAN FORESTER. CONDITIONS WHERE STAKING AND GUYING MAY BE NECESSARY TO ENSURE STABILITY INCLUDE: WINDY LOCATIONS, STEEP SLOPES, OR WHERE VANDALISM MAY BE A CONCERN.
2. STAKES OR GUYS WILL BE INSTALLED USING ACCEPTED ARBORICULTURE PRACTICES. TREES SHALL STAND PLUMB AFTER STAKING.
3. INSTALLATION WILL INCLUDE THE REMOVAL OF ALL STAKING AND GUYING MATERIAL ONE YEAR AFTER INSTALLATION. ANY HOLES LEFT BY REMOVING STAKING SHALL BE FILLED WITH APPROVED TOPSOIL/BACKFILL MIXTURE.
4. REFER TO DETAILS FOR TREE PLANTING INFORMATION.

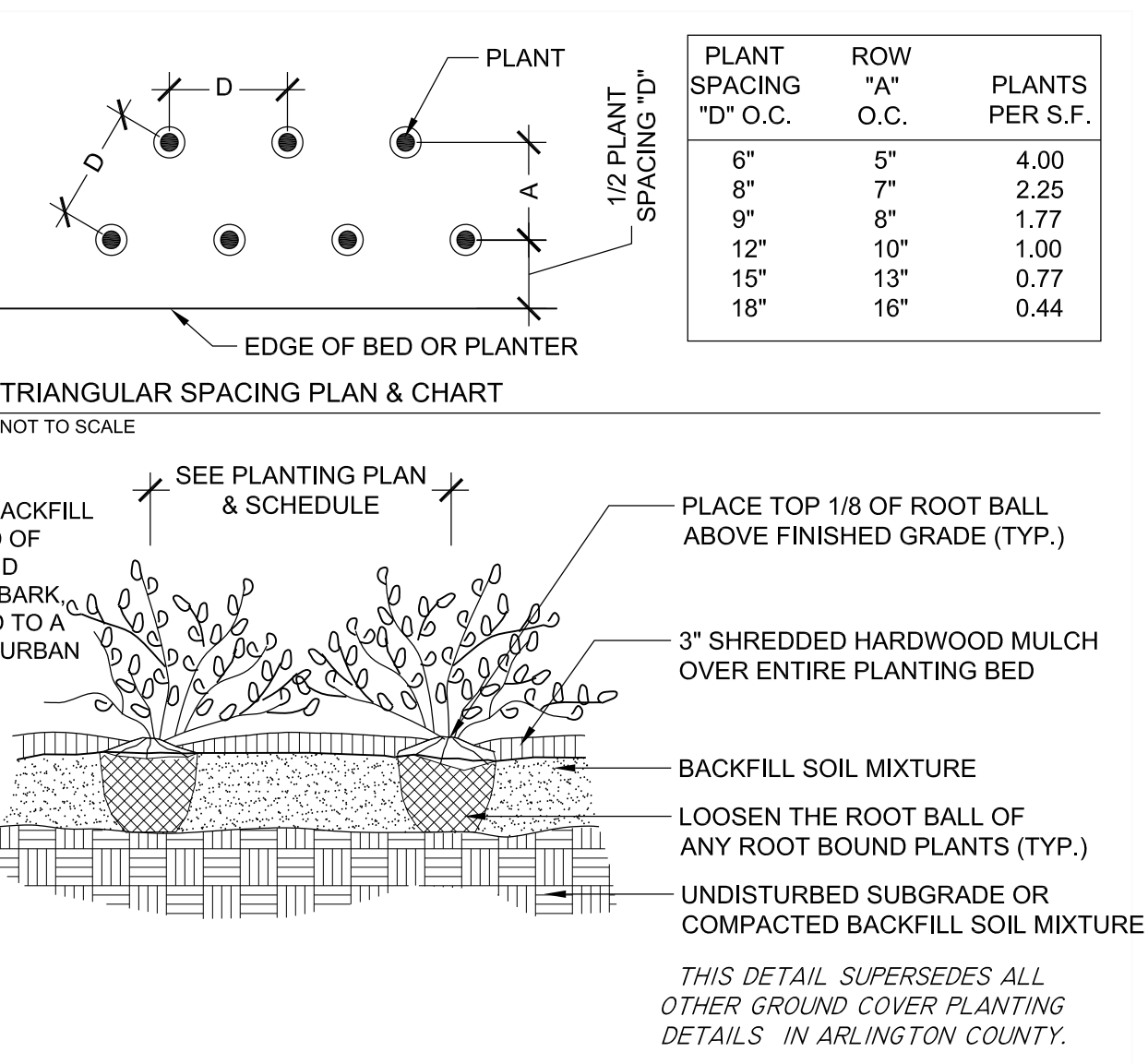


THIS DETAIL SUPERSEDES ALL OTHER DECIDUOUS TREE STAKING DETAILS IN ARLINGTON COUNTY.

**3 DECIDUOUS TREE STAKING**  
 LP-03 ELEVATION 329300.6 (2016) NOT TO SCALE

**NOTES**

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES PER ANSI 300 STANDARD.
2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.
3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.
4. GROUND COVERS AND PERENNIALS SHALL BE INSTALLED WITH TRIANGULAR SPACING. REFER TO CHART.
4. UNLESS OTHERWISE DIRECTED BY PROJECT SPECIFICATIONS OR COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).
5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.
6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF PLANTS.



PLANT SPACING "D" O.C.	ROW "A" O.C.	PLANTS PER S.F.
6"	5"	4.00
8"	7"	2.25
9"	8"	1.77
12"	10"	1.00
15"	13"	0.77
18"	16"	0.44

THIS DETAIL SUPERSEDES ALL OTHER GROUND COVER PLANTING DETAILS IN ARLINGTON COUNTY.

**6 GROUND COVERS & PERENNIAL PLANTING**  
 LP-03 ELEVATION 329300.10 (2019) NOT TO SCALE



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

21-DPR-ITB-646

Project Name and Location  
**Marcey Road Park**

2845 Marcey Road  
 Arlington, VA 22207

Sheet Title  
**Planting Details**

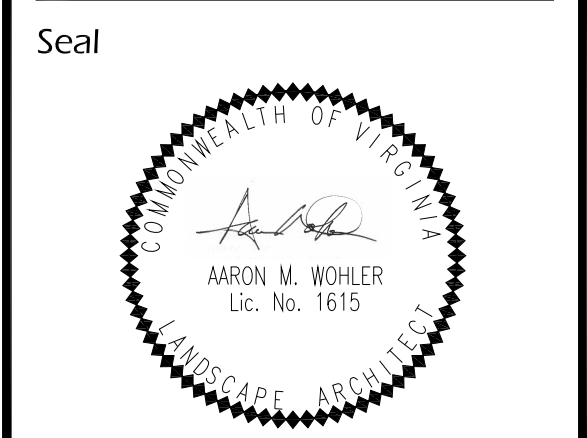
Approval Date  
 DESIGN SUPERVISOR DS\_DATE  
 Design Supervisor

Revisions	Date
REV 1	REV 1 DATE
REV 2	REV 2 DATE
REV 1	REV 3 DATE
REV 1	REV 4 DATE
REV 5	REV 5 DATE

Designed: DESIGNED BY  
 Drawn: DRAWN BY  
 Checked: CHECKED BY

Filename: PLANTING\_PLAN\_REVISD 4-28-21  
 Plotted: Jun. 3, 21

Scale: SCALE  
 Date: Apr. 29, 21



Sheet  
**LP-03**



**ERNST SEED MIX ERNMX-I40 "PARTIALLY SHADED AREA ROADSIDE MIX" (OR APPROVED EQUAL)**  
 HEIGHT: 0.3-0.5' SEEDING RATE: 1/4 LB. PER 1,000SF

**MIX COMPOSITION**

39.8%	SCHIZACHYRIUM SCOPARIUM, 'CAMPER' (LITTLE BLUESTEM)
19.0%	ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE)
17.7%	PANICUM SPHAEROCARPON (ROUND SEED PANICGRASS)
4.0%	CHAMAECRISTA FASCICULATA, PA ECOTYPE (PARTRIDGE PEA)
3.5%	ECHINACEA PURPUREA (PURPLE CONEFLOWER)
3.0%	RUDEBECKIA HIRTA, COASTAL PLAIN NC ECOTYPE (BLACKEYED SUSAN)
2.0%	HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER)
2.0%	PENSTEMON DIGITALIS, PA ECOTYPE (TALL WHITE BEARDTONGUE)
1.0%	ELYMUS HYSTRIX, PA ECOTYPE (BOTTLEBRUSH GRASS)
1.0%	LIATRIS SPICATA, PA ECOTYPE (MARSH BLAZING STAR)
0.5%	AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE (AUTUMN BENTGRASS)
0.5%	ASCLEPIAS TUBEROSA (BUTTERFLY MILKWEED)
0.5%	ASTER MACROPHYLLUS, PA ECOTYPE (BIGLEAF ASTER)
0.5%	ASTER PRENANTHOIDES, PA ECOTYPE (ZIGZAG ASTER)
0.5%	BAPTISIA AUSTRALIS, SOUTHERN WV ECOTYPE (BLUE FALSE INDIGO)
0.5%	GEUM CANADENSE, PA ECOTYPE (WHITE AVENS)
0.5%	PYCNANTHEMUM TENUIFOLIUM (NARROWLEAF MOUNTAINMINT)
0.5%	SOLIDAGO BICOLOR, PA ECOTYPE (WHITE GOLDENROD)
0.5%	TRDESCANTIA OHIENSIS, PA ECOTYPE (OHIO SPIDERWORT)
0.5%	ZIZIA AUREA, PA ECOTYPE (GOLDEN ALEXANDERS)
0.4%	ANEMONE VIRGINIANA, PA ECOTYPE (THIMBLEWEED)
0.4%	ASTER LAEVIS, NY ECOTYPE (SMOOTH BLUE ASTER)
0.4%	MONARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE (WILD BERGAMOT)
0.2%	SOLIDAGO JUNCEA, PA ECOTYPE (EARLY GOLDENROD)
0.1%	BAPTISIA TINCTORIA, PA ECOTYPE (YELLOW FALSE INDIGO)
0.1%	PENSTEMON HIRSUTUS (HAIRY BEARDTONGUE)
0.1%	VERONICASTRUM VIRGINICUM, PA ECOTYPE (CULVER'S ROOT)

**MAINTENANCE NARRATIVE**  
 THE REFORESTATION PLOT AT MARCEY ROAD PARK IS ON PUBLIC LAND MANAGED BY ARLINGTON COUNTY DEPARTMENT OF PARKS AND RECREATION (DPR). HOWEVER, ARLINGTON COUNTY'S PARKS AND NATURAL RESOURCES AGREES TO MAINTAIN THE REFORESTATION PLOT, IN A MANNER CONSISTENT WITH THE PROVISIONS OF THE VSPM REGULATIONS, FOR A LENGTH OF 5 YEARS AFTER ARLINGTON COUNTY'S DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) CERTIFIES THE REFORESTATION PLOT AS A STORMWATER MANAGEMENT FACILITY.

THE PARK, TRAIL AND TENNIS/BASKETBALL COURT AREAS WILL BE MAINTAINED TO PROVIDE CONTROL OF SEDIMENT RUNOFF AND/OR EROSION AREAS. A PLANTING LIST IS PROVIDED ON THIS SHEET (SEE CHART BELOW). INVASIVE PLANT MANAGEMENT/REMOVAL FOR THIS REFORESTATION AREA WILL BE PROVIDED VIA AN AGREEMENT BETWEEN ARLINGTON COUNTY PNR AND ARLINGTON COUNTY DPR. THE GENERAL CONTRACTOR IS NOT RESPONSIBLE FOR ANY INVASIVE SPECIES MANAGEMENT.

ANNUAL INSPECTIONS ARE REQUIRED AND SHOULD BE CONDUCTED IN THE NON-GROWING SEASON TO MAKE IT EASIER TO SEE THE FLOW PATH. THE INSPECTIONS SHOULD CHECK TO ENSURE THAT:  
 • DEBRIS AND SEDIMENT DOES NOT BUILD UP AT THE TOP OF THE REFORESTATION AREA.  
 • FOOT OR VEHICULAR TRAFFIC DOES NOT COMPROMISE THE REFORESTATION AREA.  
 • SCOUR AND EROSION DO NOT OCCUR WITHIN THE REFORESTATION AREA.  
 • VEGETATED DENSITY EXCEEDS AN 90% COVER IN THE REFORESTATION AREA AT THE END OF 5 YEARS.  
 • NO MOWING IS PERMITTED IN THE REFORESTATION AREA AND EDUCATIONAL SIGNAGE AND PHYSICAL DEMARCATION OF THE AREA TO PREVENT ACCIDENTAL MOWING IS PROVIDED.

**CONSTRUCTION NARRATIVE**

THE ENTIRE CONSTRUCTION SEQUENCE CAN BE FOUND ON THE "SEQUENCE OF CONSTRUCTION NARRATIVE" ON THE EROSION AND SEDIMENT CONTROL PLANS.  
 ADDITIONAL NOTES:  
 • ONLY VEHICULAR TRAFFIC NECESSARY FOR THE REFORESTATION AREA CONSTRUCTION SHOULD BE ALLOWED WITHIN 10 FEET OF THE REFORESTATION AREA.  
 • VEHICULAR ACCESS FOR THE PLANT INSTALLATION SHALL OCCUR FROM ROOT PROTECTION MATTING SHOWN ON TREE PRESERVATION PLAN - PHASE I (LF-01) AND THE STABILIZED CONSTRUCTION ENTRANCE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS. THE SCE IS ACCESSIBLE FROM MARCEY ROAD.  
 • IF EXISTING TOPSOIL IS STRIPPED DURING GRADING, IT SHALL BE STOCKPILED AND STABILIZED FOR LATER USE.  
 • THE PROPOSED REFORESTATION AREA SHALL HAVE FILTER LOGS/SILT FENCE (SEE EROSION & SEDIMENT CONTROL PLANS) AND TREE PROTECTION FENCE (SEE TREE PRESERVATION PLANS) AROUND THE PERIMETER.

**REFORESTATION NOTES:**

REFORESTATION IN MARCEY ROAD PARK  
 REFORESTATION AREA: 6,650 SQUARE FEET = 0.15 ACRES  
 RPA DELINEATION: DETERMINATION IS 100' FROM STREAM BANK, PLUS ANY ADJACENT >25% SLOPES.

**REFORESTATION PLANTING NOTES:**

- CONTRACTOR TO CONTACT ARLINGTON COUNTY URBAN FORESTER 72 HOURS PRIOR TO PLANTING TO SCHEDULE INSPECTION OF THE TREE STOCK.
- INVASIVE PLANT MANAGEMENT (IMP) IS CURRENTLY BEING CARRIED OUT UNDER A SEPARATE CONTRACT AND WILL BE EXPANDED TO INCLUDE THIS NEWLY REFORESTED AREA. ANY INVASIVE VEGETATION THAT REMAINS IN THE REFORESTATION AREA SHALL BE TREATED WITH A FOLIAR APPLICATION OF HERBICIDE AND TREATED A SECOND TIME AFTER ANY REMAINING TURF GRASS IN SEED BANK RETURNS.
- ACCESS TO THE REFORESTED PLANTING AREA WILL BE FROM MARCEY ROAD. THIS ACCESS LOCATION WILL BE VERIFIED AT THE PRE-CONSTRUCTION MEETING.
- REFORESTATION PLANTING AND ASSOCIATED SITE WORK (SUCH AS SOIL IMPROVEMENTS) ARE THE RESPONSIBILITY OF THE MARCEY ROAD PARK GENERAL CONTRACTOR.
- THE EXISTING SOILS WHERE REFORESTATION OCCURS SHALL BE AMENDED WITH LEAF COMPOST & TOPSOIL AND SHALL BE THOROUGHLY WATERED. SEE SPECS.
- PRIOR TO PLANTING OF THE REFORESTATION AREA, CONTRACTOR SHALL INSTALL BIODEGRADABLE AND 100% ALL-NATURAL ORGANIC STRAW EROSION CONTROL MAT (BY GEI WORKS, OR APPROVED EQUAL) ATOP THE AMENDED SOILS WITHIN THE ENTIRE PROPOSED REFORESTATION AREA. THE MATTING SHALL NOT INCLUDE ANY SYNTHETIC MATERIALS OR PLASTICS. SECURE MATTING TO THE GROUND WITH BIODEGRADABLE STAKES ON A 3' x 3' GRID IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE PURPOSE OF THE MATTING IS TO SUPPRESS COMPETING VEGETATION GROWTH, RETAIN SOIL MOISTURE AND REDUCE EROSION. REFORESTATION PLANTINGS SHALL BE LAID OUT IN THE FIELD BY CONTRACTOR WITH COUNTY STAFF ON-SITE. CARE SHALL BE TAKEN TO AVOID ROOTS OF EXISTING TREES.
- TREES MAY BE SPACED SLIGHTLY CLOSER THAN OPTIMAL SPACING FOR STREET TREES AS IS NOTED ON PLANTING LIST TO ENCOURAGE LESS VEGETATION COMPETITION AND MAINTENANCE. THIS SPACING WILL BE DETERMINED IN THE FIELD. DO NOT STAKE NEWLY PLANTED TREES.
- WHEN PLANTING PROPOSED TREES AND SHRUBS, CONTRACTOR SHALL MAKE AN X-SHAPED CUT IN THE MATTING IN ORDER TO DIG A HOLE TO RECEIVE THE PLANT. PERENNIALS AND GRASSES SHALL BE PLANTED WITHIN SMALLER X-SHAPED CUTS.
- AFTER PLANTING TREES, SHRUBS, PERENNIALS AND GRASSES, THE CONTRACTOR SHALL OVERSEED WITH ERNST SEED MIX ERNMX-I40 "PARTIALLY SHADED AREA ROADSIDE MIX" (OR APPROVED EQUAL). SEE SEED MIX BELOW.
- NEWLY PLANTED TREES TO BE WATERED FOR TWO YEARS AFTER INSTALLATION (UNDER A SEPARATE CONTRACTOR FROM THE GENERAL CONTRACTOR).

**COVER GOALS:**

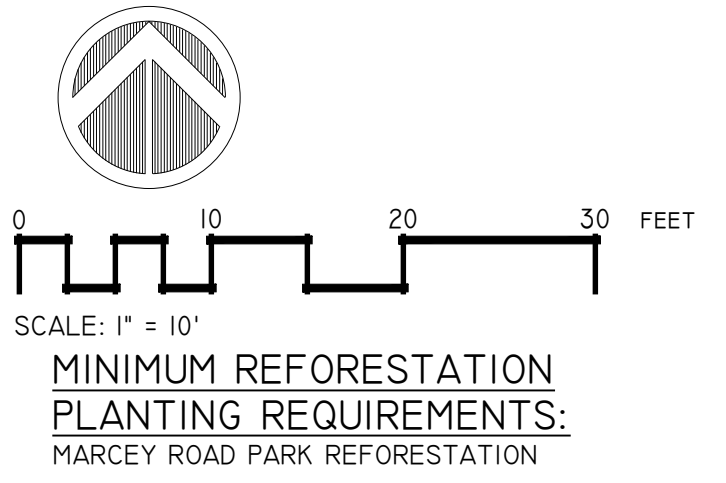
- WHEN CONSTRUCTION IS COMPLETE, NO BARE SOIL AND 80% NON-TURF COVER SHALL BE PROVIDED.
- WHEN CONSTRUCTION IS COMPLETE, DPR AND/OR THEIR THIRD PARTY INSPECTOR SHALL PROVIDE A SIGNED LETTER CERTIFYING THAT: 1) THE COVERAGE REQUIREMENT IS MET, AND 2) THE PLANT STOCK, LOCATIONS, QUANTITIES, SPECIES, NATIVE SEEDING, ETC. MEETS THE REQUIREMENTS OF THIS PLAN. THIS LETTER SHALL BE ADDRESSED TO CHRISTIN JOLICOEUR, WATERSHED PLANNER, ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) CHESAPEAKE BAY DEPT.
- NO BARE SOIL OR TURF COVER WITH (GROUND LAYER) TO BE VEGETATED OR WITH NATURAL MATERIALS SUCH AS LEAF LITTER AND MULCH) 90% DENSITY WITHIN 5 YEARS.
- ARLINGTON COUNTY PARKS AND NATURAL RESOURCES DIVISION (PNR) TO PROVIDE ASSESSMENT AND MANAGEMENT OF REFORESTED AREA FOR 5 YEARS AFTER PROJECT COMPLETION.

**PLAN NARRATIVE:**

THE PURPOSE OF THIS PROJECT IS TO REFOREST A 0.15 ACRE AREA ON THE NORTH SIDE OF THE RENOVATED MARCEY ROAD PARK. THE REFORESTATION AREA ITSELF IS ALSO WITHIN THE RPA. THE PROPOSED REFORESTATION AREA INCLUDES A SECTION OF RPA THAT IS NOT CURRENTLY FORESTED, BUT RATHER MOWED TURF GRASS. AS PART OF THE MARCEY ROAD PARK IMPROVEMENTS, THE EXISTING TURF WILL BE REMOVED. THE REMAINING GROUND SURFACE AND ANY SURROUNDING TURF GRASS/INVASIVE SPECIES THAT ARE WITHIN THE LIMITS OF DISTURBANCE SHALL UNDERGO TWO FOLIAR HERBICIDE APPLICATIONS TO KILL THE REMAINING UNDESIRABLE VEGETATION. THE AREA WILL BE DENSELY PLANTED WITH NATIVE TREES, SHRUBS AND UNDERSTORY PLANTS AND OVERSEEDED WITH A NATIVE GRASS/PERENNIAL SEED MIX. THE REFORESTATION GOALS INCLUDE ESTABLISHING 90% NATIVE COVER BY THE END OF 5 YEARS AFTER PLANTING.

FUNDING FOR 5 YEARS OF MAINTENANCE WILL NOT BE INCLUDED IN THE GENERAL CONTRACTOR'S CONSTRUCTION COST. MAINTENANCE AND OVERALL MANAGEMENT RESPONSIBILITY SHALL BE BY PNR. INFORMATIONAL SIGNAGE AND PERIMETER FENCING IS INCLUDED IN THE PROJECT. THE GENERAL CONTRACTOR IS NOT RESPONSIBLE FOR INVASIVE SPECIES REMOVAL.

BOTANICAL/COMMON	QTY	CONTAINER	CALIPER/ SIZE	SPACING
<b>OVERSTORY/CANOPY TREES</b>				
QUERCUS BICOLOR / SWAMP WHITE OAK	2	B & B	1.5 - 2" CAL	15' O.C.
NYSSA SYLVATICA / BLACK GUM	2	B & B	1.5 - 2" CAL	15' O.C.
LIQUIDAMBAR STYRACIFLUA / SWEETGUM	2	B & B	1.5 - 2" CAL	15' O.C.
CARYA TOMENTOSA / MOCKERNUT HICKORY	2	B & B	1.5 - 2" CAL	15' O.C.
PLATANUS OCCIDENTALIS / AMERICAN SYCAMORE	3	B & B	1.5 - 2" CAL	15' O.C.
QUERCUS FALCATA / SOUTHERN RED OAK	2	B & B	1.5 - 2" CAL	15' O.C.
QUERCUS RUBRA / NORTHERN RED OAK	2	B & B	1.5 - 2" CAL	15' O.C.
<b>TOTAL</b>	<b>15</b>			
<b>UNDERSTORY/ORNAMENTAL TREES</b>				
AMELANCHIER CANADENSIS / CANADIAN SERVICEBERRY	7	B & B	6-7' HEIGHT	10-12' O.C.
SASSAFRAS ALBIDUM / SASSAFRAS	7	B & B	6-7' HEIGHT	10-12' O.C.
CERCIS CANADENSIS / EASTERN REDBUD (SINGLE STEM)	8	B & B	6-7' HEIGHT	10-12' O.C.
CORNUS FLORIDA / FLOWERING DOGWOOD	8	B & B	6-7' HEIGHT	10-12' O.C.
<b>TOTAL</b>	<b>30</b>			
<b>SHRUBS</b>				
HAMAMELIS VIRGINIANA / COMMON WITCH HAZEL	21	3 GAL	15-18"	10' O.C.
SAMBUCUS CANADENSIS / AMERICAN BLACK ELDERBERRY	21	3 GAL	15-18"	8' O.C.
ILEX VERTICILLATA / WINTERBERRY	20	3 GAL	15-18"	8' O.C.
PHYSOCARPUS OPUULIFOLIUS / NINEBARK	20	3 GAL	15-18"	4-6' O.C.
LINDERA BENZOIN / SPICEBUSH	21	3 GAL	15-18"	8' O.C.
VACCINIUM ANGUSTIFOLIUM / LOWBUSH BLUEBERRY	20	3 GAL	15-18"	4-6' O.C.
VACCINIUM CORYMBOSUM / HIGHBUSH BLUEBERRY	20	3 GAL	15-18"	8' O.C.
VIBURNUM DENTATUM / VIBURNUM	21	3 GAL	15-18"	5-7' O.C.
<b>TOTAL</b>	<b>164</b>			
<b>HERBACEOUS PERENNIALS AND GRASSES</b>				
ANDROPOGON VIRGINICUS / BROOMSEDGE BLUESTEM	75	QUART		18-20" O.C.
AQUILEGIA CANADENSIS	75	QUART		18-20" O.C.
ASCLEPIAS INCARNATA	50	QUART		18-20" O.C.
ASCLEPIAS SYRIACA	50	QUART		18-20" O.C.
ASCLEPIAS TUBEROSA	50	QUART		18-20" O.C.
ASCLEPIAS VERTICILLATA	50	QUART		18-20" O.C.
ASTER NOVI-BELGII / NEW YORK ASTER	50	QUART		18-20" O.C.
SCHIZACHYRIUM SCOPARIUM	50	QUART		18-20" O.C.
SORGHASTRUM NUTANS	50	QUART		18-20" O.C.
ELYMUS VIRGINICUS / VIRGINIA WILD RYE	50	QUART		18-20" O.C.
ERAGROSTIS SPECTATABOLIS	75	QUART		18-20" O.C.
PYCNANTHEMUM MUTICUM	75	QUART		18-20" O.C.
RUDEBECKIA FULGIDA / BLACK-EYED SUSAN	50	QUART		18-20" O.C.
SCHIZACHYRIUM SCOPARIUM	75	QUART		18-20" O.C.
SOLIDAGO CAESIA	50	QUART		18-20" O.C.
SYMPHYOTRICHUM NOVAE-ANGLIAE / NEW ENGLAND ASTER	75	QUART		18-20" O.C.
<b>TOTAL</b>	<b>950</b>			



**MINIMUM REFORESTATION PLANTING REQUIREMENTS:**  
 MARCEY ROAD PARK REFORESTATION  
 0.15 ACRES TO BE PLANTED FOR REFORESTATION  
**CANOPY TREE REQUIREMENT:**  
 100 x .15 = 15  
**UNDERSTORY TREE REQUIREMENT:**  
 200 x .15 = 30  
**SHRUB REQUIREMENT:**  
 1089 x .15 = 164  
**GRASSES/PERENNIALS:**  
 1089 x .15 = 164

**NOTE:** TREE PLACEMENT SHALL BE COORDINATED IN THE FIELD WITH THE ARLINGTON COUNTY URBAN FORESTER AND ARLINGTON COUNTY LANDSCAPE ARCHITECT, PRIOR TO PLANTING.

**NOTE:** SEE PLANTING PLAN FOR PLANTING DETAILS.



DEPARTMENT OF PARKS AND RECREATION  
 Park Development Division  
 2100 Clarendon Boulevard, Suite 414  
 Arlington, VA 22201  
 Phone: 703.228.3332  
 Fax: 703.228.3328

**21-DPR-ITB-646**

Project Name and Location  
**Marcey Road Park Improvements (By Right)**  
 (County Project)

2722 MARCEY ROAD  
 ARLINGTON, VA 22207

Sheet Title  
**REFORESTATION PLAN**

100% Construction Drawings

Approval \_\_\_\_\_ Date \_\_\_\_\_  
 Design Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

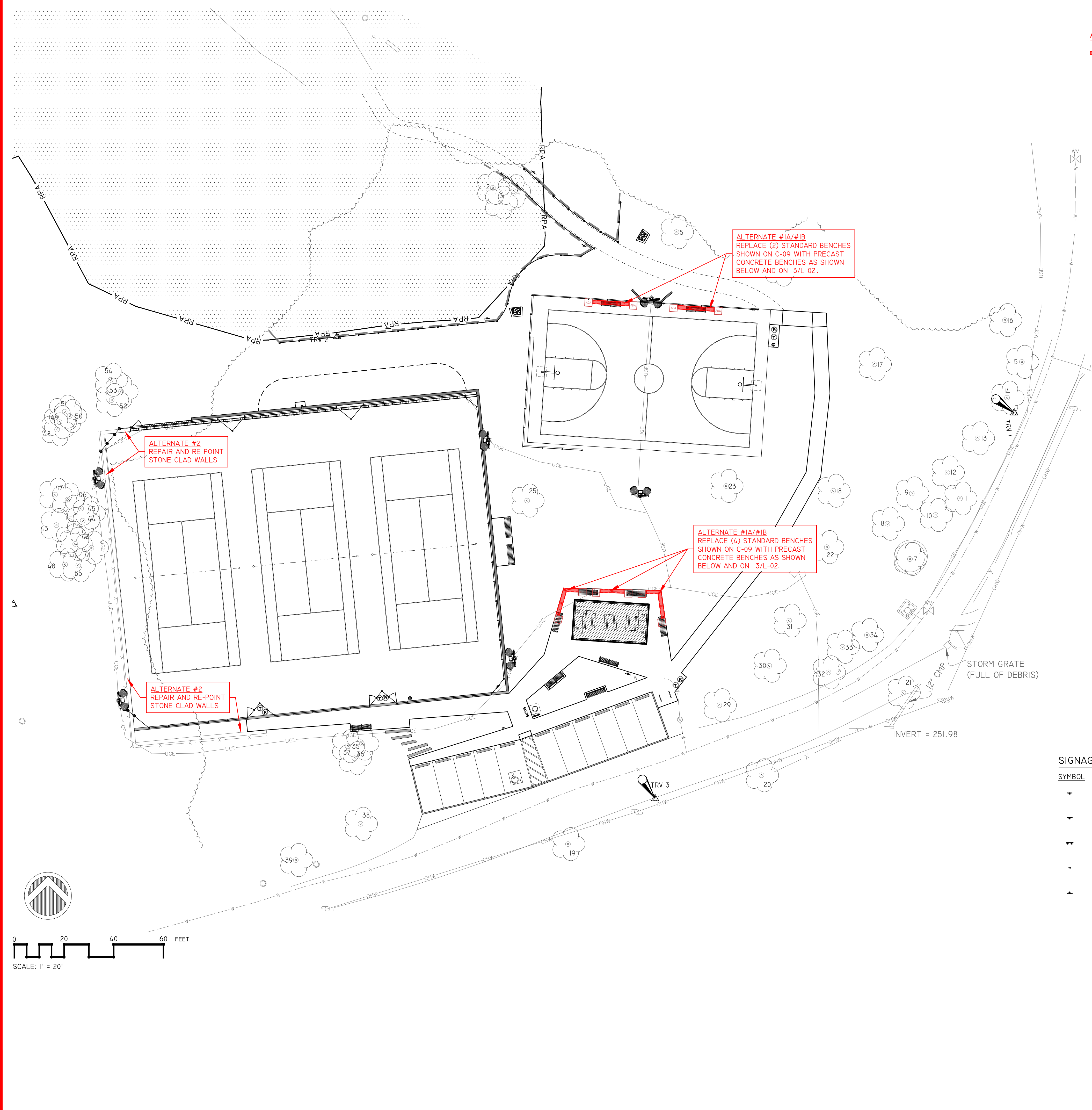
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 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB

Filename: ref-01-150396024\_reforestation plan.dwg  
 Plotted: 2021-06-02

Scale: 1" = 10'  
 Date: JUNE 2, 2021



Sheet  
**REF-01**



**ALTERNATES LEGEND**

PRECAST CONCRETE SEAT WALL 3 L-02

**PROPOSED SITE LEGEND**

- LOD/TP LIMITS OF DISTURBANCE / TREE PROTECTION FENCE 4/L-F-03
- LOW LIMIT OF WORK (NO GROUND DISTURBANCE)
- REFORESTATION AREA 7/L-05
- PARKING LOT FLUSH CURB 4 L-02, 6 L-02
- CONCRETE PAVEMENT & SCORE JOINTS 1/L-01, 2/L-01, 6/L-01, 3/L-01
- TENNIS SEGMENTAL BLOCK WALL 1 L-03
- CHAIN LINK FENCE ON CONCRETE CURB 1 L-07
- CHAIN LINK FENCE & GATES 3/L-07, 5/L-07, 4/L-07, 2/L-08
- PARKING SPACE STRIPING WITH WHEEL STOP 1/L-02, 2/L-02, 4/L-02, 6/L-02
- ADA ACCESS AISLE 1/L-02, 6/L-02
- SHADE STRUCTURE A-01 - A-03
- NATURE / PARK ACCESS TRAIL - 3" NATURAL SHREDDED HARDWOOD MULCH
- STEPPER BLOCK STEPS 5 L-02
- TENNIS COURT PRACTICE WALL 2 L-03
- STORM DRAIN INFRASTRUCTURE, SEE C-12, C-16 & 1/L-03C

**SITE FURNISHINGS SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
	1964 WORLD'S FAIR BENCH	6/L-05
	BIKE RACK (SURFACE MOUNT)	3/L-05
	RECYCLE RECEPTACLE	2/L-05
	TRASH RECEPTACLE	1/L-05
	PICNIC TABLE	4/L-05
	ADA PICNIC TABLE	4/L-05
	ADA DRINKING FOUNTAIN WITH BOTTLE FILLER, VAULT & EQUIPMENT	2/L-09
	1964 WORLD'S FAIR BENCH (BACKLESS)	1/L-06

**ATHLETIC COURTS SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
	SPORT COURT LIGHT FIXTURE RETROFIT. EXISTING POLES TO REMAIN IN PLACE. REPLACE CURRENT METAL HALIDE LIGHTS WITH NEW TOP FITTER, ELECTRICAL COMPONENTS, DRIVER AND LED FIXTURES. SEE ELECTRICAL & LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.	SHEETS E-0.1 THROUGH E5.2
	PUSH BUTTON PEDESTAL FOR SPORT COURT LIGHTING. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.	2/E5.0 1/E5.0
	BASKETBALL HOOP	4/L-06
	TENNIS COURT EQUIPMENT	3 L-06

**SIGNAGE SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL
	REFORESTATION SIGN	4/L-04
	PARK RULES SIGN	2/L-04
	ENTRY SIGN	1/L-04
	ADA PARKING SIGN	5/L-04
	COURT RULES SIGN	6/L-04



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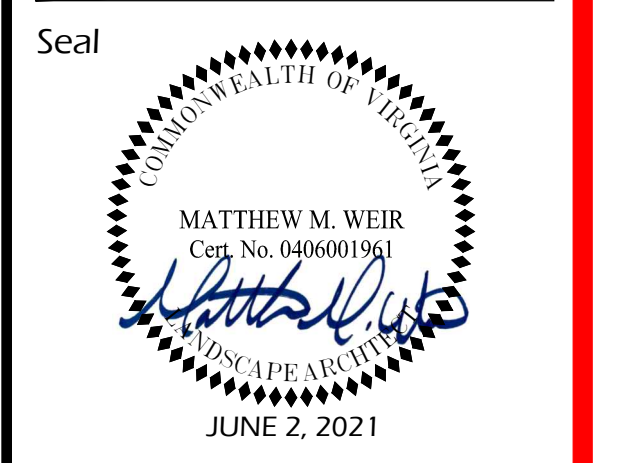
Sheet Title  
**BID ALTERNATES**

100% Construction Drawings

Approval	Date
Design Manager	
Revisions	Date

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 Drawn: AMT  
 Checked: SDT, JKS, MMW, CMB  
 Filename: c-09-150396024 site plan.dwg  
 Plotted: 2021-06-02

Scale: 1" = 20'  
 Date: JUNE 2, 2021



Sheet  
**ALT-01**