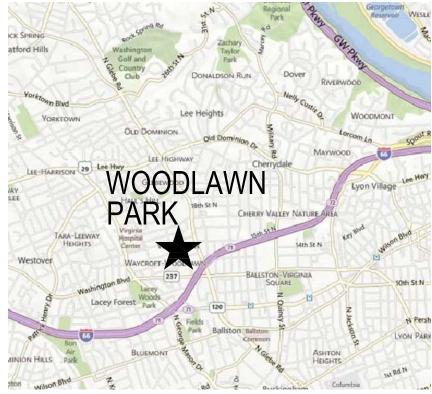


DEPARTMENT OF PARKS AND RECREATION

Park Development Division

2100 Clarendon Boulevard, Suite 414, Arlington, VA 22201 Phone: 703.228.7141 Fax: 703.228.3328 www.arlingtonva.us



Vicinity Map - Not to Scale

Plans For: Woodlawn Park

Proposed Trail Project 1400 North Buchanan Street, Arlington, VA 22207

Table of Contents:

Cover Sheet

Materials, Layout & Grading Plan

Specifications

VIDENCE AND AVAILABLE RECORDS. ADDITIONAL UNDERGROUND UTILITY LINES

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR ADHERENCE TO ALL ORDINANCES. REGULATIONS, LAWS AND CODES HAVING JURISDICTION

4. THE CONTRACTOR SHALL SUBMIT A REQUIRED "RESPONSIBLE LAND DISTURBER" CERTIFICATION LETTER AS PART OF OBTAINING A BUILDING (OR DISTURBANCE) PERMIT (ANY TYPE OF LAND DISTURBING ACTIVITY - 2,500 SQUARE FEET OR MORE IN AREA - REQUIRES THIS PERMIT AND VSMP GENERAL PERMIT FROM THE DEPARTMENT OF CONSERVATION AND RECREATION (DCR) FOR DISCHARGES OF STORM WATER FROM CONSTRUCTION ACTIVITY).

5. THE CONTRACTOR IS RESPONSIBLE FOR LICENSING AS REQUIRED BY APPLICABLE REGULATORY AGENCIES.

THE CONTRACTOR IS RESPONSIBLE FOR ALL SALES, USE AND CAPITAL GAINS TAXES.

7. SUBSTITUTIONS IN PRODUCTS AND MATERIALS ARE NOT ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT OFFICER.

8. 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.

9. 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.

10. THE CONTRACTOR SHALL BE ON SITE AT TIME OF ALL MATERIALS DELIVERIES.

11. 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

12. 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.

13. 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

14. THE CONTRACTOR SHALL NOT BLOCK STREETS, PARKING AREAS, HOUSE OR DRIVEWAY ENTRANCES DURING CONSTRUCTION WITHOUT THE PROJECT OFFICER'S PERMISSION.

15. THE CONTRACTOR SHALL STAKE THE ALIGNMENT OF ALL PAVEMENT, WALLS, AND SITE FEATURES IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO CONSTRUCTION.

16. 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.

17. UPON COMPLETION OF THE PROJECT, ALL EXCESS SOIL, 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. SUBMIT TICKETS OF LEGALLY DISPOSED AREAS TO PROJECT OFFICER.

18. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (DES)

CHESAPEAKE BAY PRESERVATION ORDINANCE

OWNERS/OPERATORS OF ALL CONSTRUCTION ACTIVITIES LARGER THAN 2,500 SQUARE FEET LOCATED IN ARLINGTON COUNTY (A CHESAPEAKE BAY PRESERVATION LOCALITY) ARE REQUIRED TO APPLY TO DCR FOR REGISTRATION COVERAGE UNDER THE GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS.

2. 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.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CLOSING, TO ARLINGTON COUNTY STANDARDS, ANY EXISTING ENTRANCES NOT BEING USED IN CONJUNCTION WITH THIS DEVELOPMENT.

4. THE CONTRACTOR SHALL OBTAIN ARLINGTON COUNTY PERMITS FOR ALL OF THIS

5. 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.

6. 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.

7. 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

8. ALL SANITARY SEWER CLEAN-OUTS LOCATED WITHIN THE TRAVEL WAY OR PARKING LOT OF THIS DEVELOPMENT SHALL BE CAST IRON.

9. THE CONTRACTOR SHALL CONSTRUCT ALL HANDICAP RAMPS TO THE CURRENT

VDOT STANDARD. USE 2'X 2' TRUNCATED DOME PANELS.

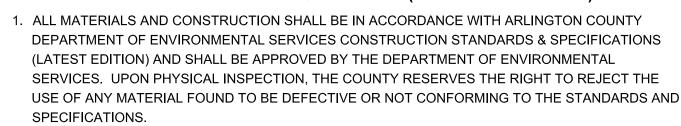
10. THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE INSPECTION SERVICES DIVISION PRIOR TO ANY DEMOLITION. EXCAVATION OR CONSTRUCTION OF ON-SITE FACILITIES. FOR INFORMATION AND PERMIT REQUIREMENTS TELEPHONE (703) 228-3800.

11. THE PLANTING OF ALL TREES FOR THIS DEVELOPMENT SHALL BE COORDINATED WITH AND APPROVED BY THE DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES (DPRCR) URBAN FORESTER. THIS COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE DPRCR URBAN FORESTER AT (703) 228-6557, 72 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF EXCAVATION, PLANT MATERIAL AND INSTALLATION. ALSO PRIOR TO REMOVING OR DISTURBING ANY EXISTING COUNTY TREES, CONTACT DPRCR FOR INFORMATION AND APPROVAL

UTILITY MARKING REQUIREMENTS:

12. 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.

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



BEFORE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE FOLLOWING INFORMATION AND/OR EVIDENCE OF COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND LAWS, TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

EVIDENCE SHALL BE FURNISHED OF THE CONTRACTOR'S PRIOR EXPERIENCE AS PRIME CONTRACTOR IN THE CONSTRUCTION OF WATER MAINS AND/OR SANITARY SEWER INSTALLATIONS. FURTHER, THE CONTRACTOR SHALL FURNISH A LETTER WITH A LIST OF MATERIALS AND SUPPLIERS FOR PROPOSED PROJECT

INSTANCES OF EXCAVATIONS IN STATE RIGHT OF WAY, THE DATE AND NUMBER OF ALI PERMITS REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) SHALL BE

C. IF ANY OTHER EASEMENT IS NEEDED, TWO (2) COPIES OF THE DESCRIPTION OF SUCH EASEMENT, AS ACTUALLY RECORDED, SHALL BE FURNISHED, INCLUDING THE PLACE, DATE AND REFERENCE OF SUCH RECORDATION.

D. WRITTEN NOTICE OF TENTATIVE STARTING DATE OF CONSTRUCTION, WHICH SHALL BE A MINIMUM OF ONE (1) WEEK FOLLOWING THE DATE OF NOTICE. IN ADDITION, THE CONTRACTOR WHO CAN BE CONTACTED IN CASE OF EMERGENCY

ACTUAL CONSTRUCTION SHALL NOT BEGIN UNTIL THE ABOVE ITEMS HAVE BEEN COMPLETED AND THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES APPROVED THE STARTING DATE AND ARRANGEMENTS HAVE BEEN MADE FOR THE REQUIRED INSPECTION

3. ALL CONSTRUCTION SHALL BE ACCOMPLISHED FROM APPROVED PLANS, SPECIFICATIONS AND CUT SHEETS SUBMITTED BY A REGISTERED ENGINEER AND APPROVED BY THE COUNTY. TO AVOID CONSTRUCTION DELAYS ALL NECESSARY TEST HOLE INFORMATION SHALL BE OBTAINED

4. NO EXISTING WATER MAINS, FIRE HYDRANTS, OR SANITARY SEWERS MAY BE TAKEN OUT OF SERVICE OR MADE INACCESSIBLE BY THE CONTRACTOR WITHOUT THE PRIOR APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES.

5. IN CASES WHERE A PROPOSED SANITARY SEWER IS TO BE CONNECTED TO AN EXISTING SANITARY MANHOLE, THE MANHOLE SHALL BE RECONSTRUCTED OR REPLACED BY THE DEVELOPER AS DIRECTED BY THE COUNTY TO MEET THE CURRENT STANDARDS. ALL NEW CONNECTIONS TO THE EXISTING MANHOLES SHALL BE CORE DRILLED WITH BOOT JUST ABOVE THE EXISTING BENCH AND THE FLOW CHANNELS RESHAPED AS NEEDED

6. UPON COMPLETION OF CONSTRUCTION, ALL FINAL TESTS, AS REQUIRED, SHALL BE PERFORMED CONNECTIONS SHALL NOT BE MADE UNTIL THE WATER AND/OR SEWER MAINS AND APPURTENANCES HAVE BEEN APPROVED AND ACCEPTED BY ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

7. EXISTING WATER SERVICES MAY BE ALLOWED FOR CONSTRUCTION PURPOSES ONLY FOR WHICH CONTRACTOR SHALL REQUEST TO THE ARLINGTON COUNTY'S UTILITY SERVICES BY CALLING 703-228-3636. PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE DEVELOPER SHALL REQUEST TO THE UTILITY SERVICES IN WRITING FOR THE DISCONTINUATION OF ALL EXISTING WATER SERVICES. ALSO, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING METER BOXES RELATED TO THE SERVICES BEING DISCONTINUED.

8. THE CONTRACTOR SHALL MAINTAIN BACKFILL FOR UTILITY EXCAVATIONS UNTIL ARLINGTON COUNTY HAS FINALLY ACCEPTED THE PROPOSED WATER AND/OR SEWER MAIN. ALSO, ALL SURFACES OVER THE UTILITY EXCAVATIONS SHALL EITHER BE RESTORED TO THE ORIGINAL CONDITION OR FINISHED AS PER THE PROPOSED DESIGN BEFORE THE ACCEPTANCE OF THE PROJECT. PAVEMENT PATCHING FOR UTILITY CUTS IN THE PUBLIC STREETS SHALL BE PERFORMED IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS AND SPECIFICATIONS OR AS PER VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS DEPENDING UPON THE STREET JURISDICTION. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL ADJUST ALL EXISTING VALVE BOXES AND SANITARY SEWER MANHOLE FRAME AND COVERS AS PER COUNTY STANDARDS, REMOVE ALL ABANDONED SANITARY MANHOLES AND VALVE BOXES OVER THE ABANDONED WATER MAINS, AND COMPLETE ALL NECESSARY WATER MAIN "CUT AND CAPS".

9. UPON COMPLETION, APPROVAL, AND ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE DEVELOPER'S REGISTERED ENGINEER SHALL SUBMIT TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, A SET OF MYLAR TRACINGS INDICATING THE AS-BUILT CONDITIONS AND A SIGNED STATEMENT CONFIRMING THAT THE WORK, AS INDICATED, IS ACCEPTABLE TO THE ENGINEER. SUCH SUBMITTALS SHALL BE MADE BEFORE REQUESTING REDUCTION AND/OR RELEASE OF THE SURETY BOND.



DEPARTMENT OF PARKS AND RECREATION

> Parks Development Division 2100 Clarendon Boulevard, Suite 414 Arlington, VA 22201 Phone: 703.228.7141

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ITB# xxx-xx

Approvals

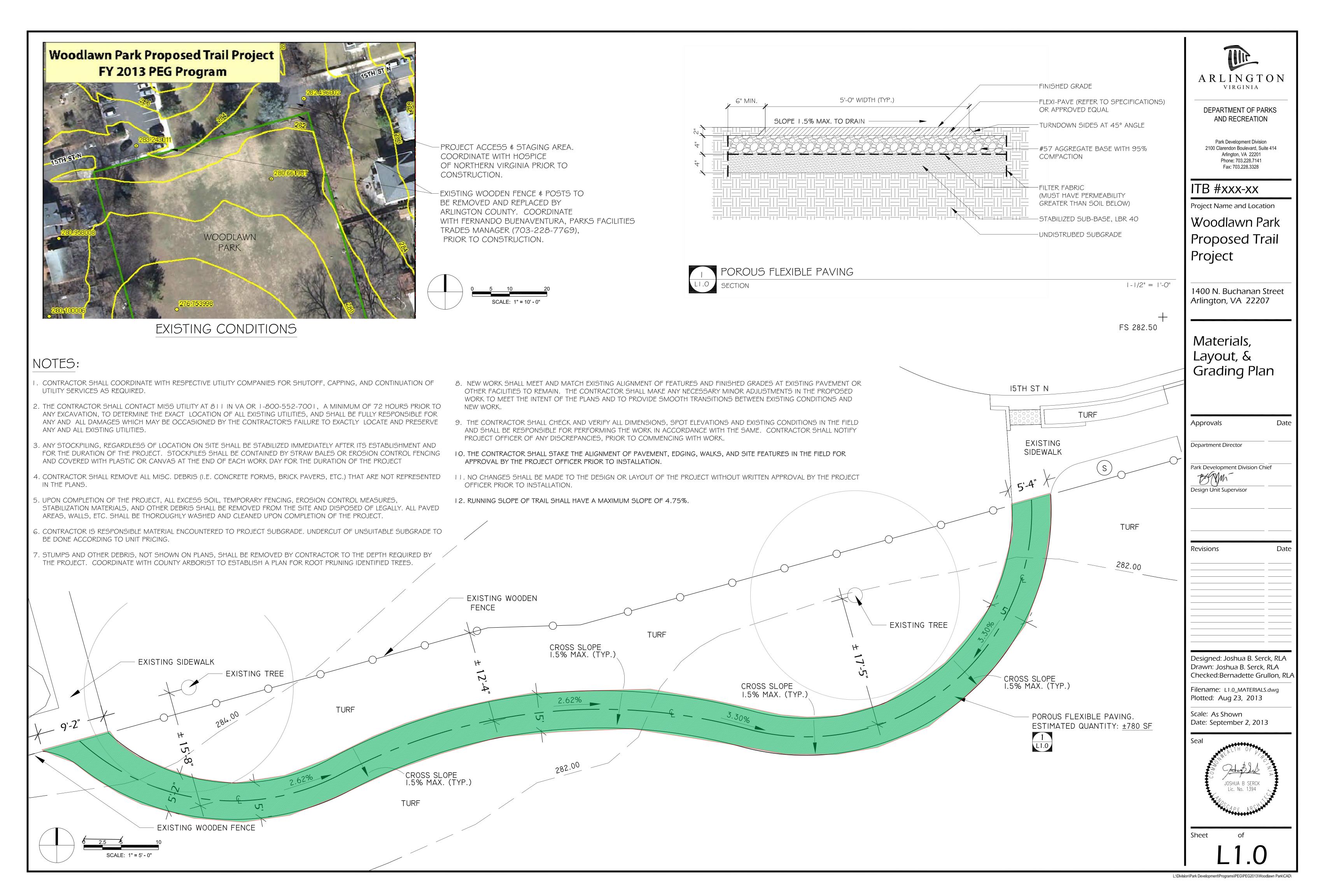
DEPARTMENT DIRECTOR

PLANNING AND DESIGN DIVISION CHIEF

09.02.2013 **DESIGN TEAM SUPERVISOR**

Date: July 25, 2013





SECTION 32 | 200 - POROUS FLEXIBLE PAVING

PART I - GENERAL

- I.I SCOPE
- A. THIS SPECIFICATION PROVIDES REQUIREMENTS FOR THE CONSTRUCTION OF FLEXIBLE PERVIOUS PAVING (FPP).
- B. IN CASE THE REQUIREMENTS OF THIS SPECIFICATION CONFLICT WITH THE CONTRACT DOCUMENTS, THIS DOCUMENT SHALL GOVERN.
- 1.2 DEFINITIONS
- A. EXPOSURE CONDITION, MODERATE: EXPOSURE TO A CLIMATE WHERE THE PAVING WILL NOT BE IN A SATURATED CONDITION WHEN EXPOSED TO FREEZING AND WILL NOT BE EXPOSED TO DEICING AGENTS OR OTHER AGGRESSIVE CHEMICALS.
- B. EXPOSURE CONDITION, SEVERE: EXPOSURE TO DEICING CHEMICALS OR OTHER AGGRESSIVE AGENTS OR WHERE THE PAVING CAN BECOME SATURATED BY CONTINUAL CONTACT WITH MOISTURE OR FREE WATER BEFORE FREEZING.
- C. BASE REINFORCEMENT: THE USE OF A GEOSYNTHETIC WITHIN THE AGGREGATE BASE COURSE TO ENHANCE THE PERFORMANCE OF A PAVING
- D. GEOGRID: BIAXIAL OR TRIAXIAL WOVEN POLYPROPYLENE MATERIAL FOR BASE COURSE REINFORCEMENT AND CONFINEMENT, AND SUBGRADE STABILIZATION AND INCREASED SUBGRADE LOAD CAPACITY
- E. PANEL: AN INDIVIDUAL PAVING SLAB BORDERED BY JOINTS OR SLAB EDGES.
- F. PERVIOUS PAVING: A PAVING COMPRISING MATERIAL WITH SUFFICIENT CONTINUOUS VOIDS TO ALLOW WATER TO PASS FROM THE SURFACE TO THE UNDERLYING LAYERS.
- G. PERVIOUS: THE PROPERTY OF A MATERIAL WHICH PERMITS MOVEMENT OF WATER THROUGH IT UNDER ORDINARY HYDROSTATIC PRESSURE.
- H. FLEXIBLE PERVIOUS PAVING: PAVING SYSTEM COMPRISED OF THREE COMPONENTS: RECYCLED PASSENGER CAR TIRES, AGGREGATE, AND URETHANE BINDER THAT PROVIDES A STRONG, PERVIOUS, YET FLEXIBLE PAVING.
- I. SUBBASE: A LAYER IN A PAVING SYSTEM BETWEEN THE SUBGRADE AND THE BASE COURSE, OR BETWEEN THE SUBGRADE AND A FLEXIBLE PERVIOUS PAVING.
- J. SUBGRADE: THE SOIL PREPARED AND COMPACTED TO SUPPORT A STRUCTURE OR PAVING SYSTEM.
- 1.3 REFERENCED STANDARDS
- A. ASTM STANDARDS:
- I. ASTM C 666/C 666M-03, "STANDARD TEST METHOD FOR RESISTANCE OF CONCRETE TO FREEZING AND THAWING, PROCEDURE A FREEZING AND THAWING IN WATER." SAMPLES SHALL INDICATE ONLY MINIMAL MASS CHANGE RESULTS AFTER 300 NOMINAL FREEZE-THAW CYCLES, AND VISUAL EXAMINATION OF THE TEST SPECIMENS SHALL INDICATE NO CRACKS OR BREAKS.
- a. D 3385-03 STANDARD TEST METHOD FOR INFILTRATION RATE OF SOILS IN FIELD USING DOUBLE-RING INFILTROMETER.

 b. D 3665-06 STANDARD PRACTICE FOR RANDOM SAMPLING OF CONSTRUCTION MATERIALS F 329-064 SPECIFICATION FOR
- b. D 3665-06 STANDARD PRACTICE FOR RANDOM SAMPLING OF CONSTRUCTION MATERIALS E 329-06A SPECIFICATION FOR AGENCIES ENGAGED IN CONSTRUCTION INSPECTION AND/OR TESTING.
- 1.4 QUALITY ASSURANCE
- A. INSTALLER QUALIFICATIONS:
- I. FLEXIBLE PERVIOUS PAVING INSTALLER SHALL BE CURRENTLY CERTIFIED BY THE MANUFACTURER AND HAVE SUCCESSFULLY INSTALLED A MINIMUM OF 5,000 SQUARE FEET WITHIN THE MID-ATLANTIC REGION WITHIN THE LAST YEAR.
- 2. FLEXIBLE PERVIOUS PAVING INSTALLER SHALL EMPLOY NO LESS THAN THREE MANUFACTURER-CERTIFIED FLEXIBLE PERVIOUS PAVING TECHNICIANS ON STAFF WHO DIRECTLY OVERSEE AND PERFORM THE INSTALLATIONS DURING ALL FLEXIBLE PERVIOUS PAVING PLACEMENT, UNLESS OTHERWISE SPECIFIED.
- 1.5 SUBMITTALS
- A. QUALIFICATION DATA
- I. FOR PERVIOUS PAVING INSTALLER:
- a. PROVIDE A LIST OF SUCCESSFULLY INSTALLED FLEXIBLE PERVIOUS PAVING PROJECTS, AS REQUIRED HEREIN, INCLUDING THE ADDRESS, SQUARE FOOTAGE, AND PHOTOGRAPHS FOR EACH PROJECT.
- b. MANUFACTURER'S CERTIFICATIONS.
- C. SAMPLES FOR VERIFICATION: PROVIDE ONE 6" DIAMETER SAMPLE, FULL THICKNESS.
- I.6 PROJECT CONDITIONS

B. PROPOSED MIX DESIGN.

- A. TRAFFIC CONTROL: MAINTAIN ACCESS FOR PEDESTRIAN TRAFFIC AS REQUIRED FOR OTHER CONSTRUCTION ACTIVITIES.
- B. SCHEDULE PLACEMENTS TO MINIMIZE EXPOSURE TO WIND AND HEAT BEFORE CURING MATERIALS ARE APPLIED.
- C. AVOID PLACING PERVIOUS PAVING IF RAIN, SNOW, OR FROST IS FORECAST WITHIN 24 HOURS. PROTECT FRESH PAVING FROM MOISTURE AND FREEZING.

PART 2 - PRODUCTS

- 2.1 SUBBASE
- A. COARSE AGGREGATES SHALL MEET THE DURABILITY REQUIREMENTS OF ASTM C 33.
- 2.2 FLEXIBLE PERVIOUS PAVING
- A. MANUFACTURER: KB INDUSTRIES, INC., 727.723.3300.

AVAILABLE FROM CAPITOL FLEXI-PAVE, 202.431.1961.

PRODUCT: KBI FLEXI-PAVE, OR APPROVED EQUAL.

- COLOR: TO BE DETERMINED. CONTRACTOR TO PROVIDE COLOR SAMPLES FOR APPROVAL, PRIOR TO INSTALLATION.
- B. BONDING: HAVE THE CAPACITY TO BIND WITH: WOOD; STEEL; CONCRETE; ALUMINUM; COMPACTED AGGREGATE; ENAMEL TILE, OR; FIBERGLASS
- C. RESISTANCE TO DEGRADATION: RESISTANT TO: CHLORINE; OZONE; BROMINE; MURIATIC ACID; SALT WATER; OIL; TRANSMISSION OIL, AND; HYDRAULIC OIL.
- D. AGGREGATE:
- I. STONE: TRIPLE-WASHED COARSE AGGREGATE, NO. 8 COARSE AGGREGATE (3/8 TO 1/2 INCH) PER ASTM C 33. BAGGED AND LABELED AS TESTED AND CERTIFIED BY FLEXIBLE PERVIOUS PAVING MANUFACTURER.
- a. NOMINAL MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 1/3 OF THE SPECIFIED PAVING THICKNESS.
- 2. RUBBER: RECYCLED PASSENGER TIRES GROUND TO 3/8" NOMINAL WITH THE WIRE REMNANTS REMOVED.
- E. BINDING AGENT: URETHANE LIQUID PREPOLYMER BASED UPON DIPHENYLMETHANE-DIISOCYANATE.

- E. BINDING AGENT: URETHANE LIQUID PREPOLYMER BASED UPON DIPHENYLMETHANE-DIISOCYANATE.
- F. AIR ENTRAINING AGENTS: PROHIBITED.
- G. MIX DESIGN: USING MATERIALS ACCEPTABLE TO THE MANUFACTURER DESIGN A TENTATIVE MIX AND TEST FOR THE CONSISTENCY INTENDED FOR USE ON THE WORK AND SPECIFIED.
- I. THE VOLUME BY WEIGHT OF AGGREGATE PER CU. YD. SHALL BE 50% OF THE TOTAL DRY MIX.
- 2. THE VOLUME BY WEIGHT OF THE RUBBER PRODUCT PER CU. YD. SHALL BE 50% OF THE TOTAL DRY MIX.
- 3. PERMEABILITY: PERVIOUS INFILTRATION RATE OF 2,000 GALLONS/SQUARE FOOT/HOUR

PART 3 - EXECUTION

- 3.1 SUBGRADE PREPARATION
- A. PREPARE SUBGRADE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- B. CONSTRUCT SUBGRADE TO ENSURE THAT THE REQUIRED PAVING THICKNESS IS OBTAINED IN ALL LOCATIONS.
- C. KEEP ALL TRAFFIC OFF OF THE SUBGRADE DURING CONSTRUCTION TO THE MAXIMUM EXTENT PRACTICAL. REGRADE SUBGRADE DISTURBED BY DELIVERY VEHICLES OR OTHER CONSTRUCTION TRAFFIC, AS NEEDED.
- D. COMPACT THE MATERIAL ADDED TO OBTAIN FINAL SUBGRADE ELEVATION.
- E. DETERMINE SUBGRADE PERMEABILITY IN ACCORDANCE WITH ASTM D3385 BEFORE PERVIOUS PAVING PLACEMENT. CONFIRM THAT SUBGRADE PERMEABILITY MEETS REQUIREMENTS OF CONTRACT DOCUMENTS.

3.2 SUBBASE

- A. PREPARE SUBBASE IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- 3.3 BATCHING, MIXING, AND DELIVERY
- A. BATCH AND MIX ON SITE IN COMPLIANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS, EXCEPT THAT DISCHARGE SHALL BE COMPLETED WITHIN 5 MINUTES OF THE INTRODUCTION OF URETHANE TO THE DRY PRODUCTS .
- 3.4 PLACING AND FINISHING PAVING
- A. DO NOT PLACE PERVIOUS PAVING ON FROZEN OR WET SUBGRADE OR SUBBASE
- B. DEPOSIT PERVIOUS PAVING EITHER DIRECTLY ONTO THE SUBGRADE OR SUBBASE BY WHEELBARROW OR BY MATERIAL HANDLER ONTO THE SUBGRADE OR SUBBASE, UNLESS OTHERWISE SPECIFIED.
- C. DEPOSIT PERVIOUS PAVING BETWEEN THE FORMS TO AN APPROXIMATELY UNIFORM HEIGHT.
- D. SPREAD THE PERVIOUS PAVING USING A COME-ALONG, SHORT-HANDLE, SQUARE-ENDED SHOVEL OR RAKE.
- E. USE STEEL TROWELS TO FINISH TO THE ELEVATIONS AND THICKNESS SPECIFIED IN CONTRACT DOCUMENTS.

3.5 FINAL SURFACE TEXTURE

A. FINAL SURFACE OF PERVIOUS PAVING SHALL BE SMOOTHED WITH BULL FLOAT AND MAGNESIUM TROWELS.

J.6 LDGIN

A. WHEN FORMS ARE NOT USED, BEVEL THE EDGE OF THE TOP SURFACE TO A 45° SLOPE

3.7 CURING

- A. BEGIN CURING WITHIN 20 MINUTES OF PAVING DISCHARGE, UNLESS LONGER WORKING TIME IS ACCEPTED BY THE MANUFACTURER.
- B. COMPLETELY COVER THE PAVING SURFACE WITH A MINIMUM 4 MIL THICK POLYETHYLENE SHEET ONLY IF RAIN OR SPRINKLERS ARE IMMINENT WITHIN 20 MINUTES. CUT SHEETING TO A MINIMUM OF A FULL PLACEMENT WIDTH.
- I. COVER ALL EXPOSED EDGES OF PAVING WITH POLYETHYLENE SHEET.
- 2. SECURE CURING COVER MATERIAL WITHOUT USING DIRT.
- C. CURE PAVING FOR A MINIMUM OF 24 UNINTERRUPTED HOURS, UNLESS OTHERWISE SPECIFIED.

3.8 HOT- AND COLD-WEATHER CONSTRUCTION

- A. WHEN HOT WEATHER IS ANTICIPATED UP TO 95 DEGREES FAHRENHEIT, NO SPECIAL PROCEDURES ARE NECESSARY.
- B. IN COLD WEATHER WHEN TEMPERATURES MAY FALL BELOW FREEZING JUST AFTER AN INSTALLATION, UTILIZE A FAN TO MAINTAIN AIRFLOW OVER PERVIOUS PAVING DURING THE CURING PROCESS.

3.9 OPENING TO TRAFFIC

A. DO NOT OPEN THE PAVING TO LIGHT VEHICULAR TRAFFIC UNTIL THE PERVIOUS PAVING HAS CURED FOR AT LEAST 24 HOURS DURING WARM WEATHER, AND 48 HOURS DURING VERY COLD TEMPERATURES AT OR NEAR FREEZING AND NOT UNTIL THE PERVIOUS PAVING IS ACCEPTED BY THE OWNER FOR OPENING TO TRAFFIC.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 THE MEASUREMENT OF FLEXIBLE PERVIOUS PAVEMENT TO BE PAID FOR SHALL BE THE NUMBER OF SQUARE YARD OF ASPHALT PAVEMENT CONSTRUCTED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND TO THE SATISFACTION OF THE PROJECT OFFICER.
- 4.2 THE PRICE BID SHALL BE A UNIT PRICE PER SQUARE YARD OF FLEXIBLE PERVIOUS PAVEMENT AND SHALL INCLUDE THE COST OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTAL EXPENSES NECESSARY TO COMPLETE THE WORK, INCLUDING EXPANSION MATERIAL, SEALANT, CURING COMPOUND, AGGREGATE SUBBASE, ALL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND APPROVAL OF THE PROJECT OFFICER. DOES NOT INCLUDE EXCAVATION.

END OF SECTION 321200



DEPARTMENT OF PARKS
AND RECREATION

Park Development Division 2100 Clarendon Boulevard, Suite 414 Arlington, VA 22201 Phone: 703.228.7141 Fax: 703.228.3328

ITB #xxx-xx

Project Name and Location

Woodlawn Park Proposed Trail Project

1400 N. Buchanan Street Arlington, VA 22207

Specifications

Approvals

Department Director

Park Development Division Chief

Design Unit Supervisor

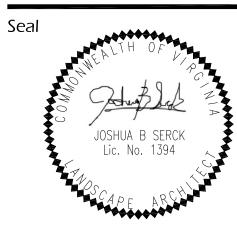
Revisions

Date

Designed: Joshua B. Serck, RLA Drawn: Joshua B. Serck, RLA Checked:Bernadette Grullon, RLA

Filename: L1.0_MATERIALS.dwg Plotted: Aug 23, 2013

Scale: As Shown
Date: September 2, 2013



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Sheet