CARR AVENUE SIDEWALK PROJECT
ROCKVILLE, MARYLAND

CITY OF ROCKVILLE CONTRACT NO. 18-18, CATEGORY C

VICINITY MAP
SCALE 1"=2,000'

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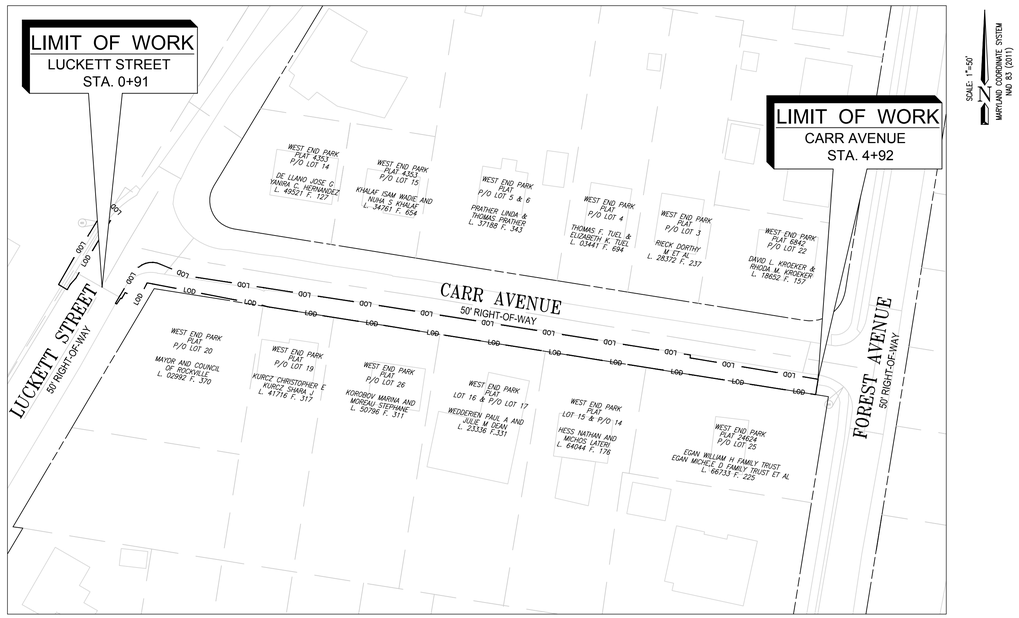
GENERAL NOTES:

1. ONLY APPROVED PLANS THAT HAVE BEEN SIGNED BY THE ENGINEER OF RECORD SHALL BE USED FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE DRAWINGS. AUTOCAD FILES OR OTHER ELECTRONIC FILES ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2. THE EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED USING INFORMATION AVAILABLE AT THE TIME THIS PLAN WAS PREPARED. PRIOR TO DIGGING, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN AND CONFIRM THAT NO CONFLICTS EXIST. ANY CONFLICTS MUST BE BROUGHT TO THE ATTENTION OF CPJ AND THE OWNER PRIOR TO STARTING CONSTRUCTION.
3. THIS PLAN SHALL ONLY BE USED FOR THE CONSTRUCTION OF SIDEWALK AND ASSOCIATED PAVING IMPROVEMENTS AS SHOWN THIS PLAN SHALL NOT BE USED FOR ANY OTHER CONSTRUCTION PURPOSES.
4. THESE PLANS DO NOT INCLUDE THE NECESSARY PRECAUTIONS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING, OR RECONSTRUCTING EXISTING SITE FEATURES (E.G. CURB AND GUTTER, SIDEWALK, FENCING, SOIL, UTILITIES, ETC.) DAMAGED AS A RESULT OF PROJECT WORK.
6. ALL CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 2010 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
7. CONTRACTOR SHALL COORDINATE ANY CLOSURES WITH TOWN OR ENGINEER TO PROVIDE ADEQUATE NOTICE TO HOMEOWNERS OF ANY NECESSARY CLOSURES.
8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE. CONTRACTOR SHALL INSTALL APPROPRIATE SEDIMENT CONTROL MEASURES AS NECESSARY. STANDARD SEDIMENT CONTROL NOTES AND SOME DETAILS ARE PROVIDED ON SHEETS ES-03 & ES-04. REFER TO THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL DETAILS AND PRACTICES AS NEEDED.
9. CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE AND FLAGGERS TO MAINTAIN SAFE PASSAGE OF VEHICLES AND PEDESTRIANS AROUND WORK ZONE.



SCALE: 1"=50'
N
MARYLAND COORDINATE SYSTEM
NAD 83 (2011)

GRAPHIC SCALE
50 0 25 50 100
SCALE: 1" = 50'

ADA NOTE: THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAP IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.

CONTACT CITY OF ROCKVILLE
DEPARTMENT OF PUBLIC WORKS
UTILITIES MAINTENANCE
DIVISION
AT
240-314-8567
AT LEAST 48 HOURS IN ADVANCE FOR WATER, SEWER AND STORM DRAIN LOCATES AND FOR WATER VALVE OPERATION

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
AT
WWW.MISSUTILITY.NET
OR
1-800-257-7777
OR 811
AT LEAST 48 HOURS
PRIOR TO EXCAVATION

Digitally signed by Sari Hijazi
Date: 2025.07.16 23:51:49-04'00'

STATE OF MARYLAND · SARI HIJAZI · No. 50932 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50932
EXPIRATION DATE 5/19/2026

HORIZONTAL DATUM	NAD 83
VERTICAL DATUM	NVD 88

50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

OWNER: CITY OF ROCKVILLE - DEPARTMENT OF PUBLIC WORKS / JENNIFER WANG
ADDRESS: 111 MARYLAND AVENUE, ROCKVILLE, MD 20850
EMAIL: JWANG@ROCKVILLEMD.GOV
PHONE: 240-314-8506

CPJ Associates
Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers · Planners · Landscape Architects · Surveyors
6305 Ivy Lane, Suite 710, Greenbelt, MD 20770 301-220-0600 Fax: 301-434-9394
www.cpja.com · Silver Spring, MD · Annapolis, MD · Greenbelt, MD · Frederick, MD · Fairfax, VA

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____ REVIEWED BY _____
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
COVER SHEET

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025
SCALE AS SHOWN
SHEET NO. 1 OF 11
FILE # CV-01

City of Rockville
Get Into It

GENERAL NOTES

November 2016

1. The Applicant is the entity for which the City of Rockville Department of Public Works (DPW) has issued a permit. For DPW projects where a permit is not applicable, the entity for which the City contract is issued shall be considered the Applicant in these notes. The Applicant is responsible for all contractors, agents, subcontractors, or other entities completing work under this permit and/or approved plan.

2. The Applicant must arrange a pre-construction meeting prior to commencing any work. Provide at least 48 hours of notice to the following: City Project Inspector listed in the permit, City Forestry Inspector at 240-314-8713, if required by either a DPW and/or Forestry permit, or DPW Sediment Control Inspector at 240-314-8879, if required by permit.

3. The Applicant must contact Miss Utility at 1-800-257-7777 or #811 or missutility.net so that utilities are marked prior to holding any pre-construction meeting.

4. Information concerning existing underground utilities was obtained from available records. The Contractor must determine the exact location and elevation of existing utilities by digging test pits at the utility crossings well in advance of trenching. If clearance is less than shown on this plan, contact the Professional Engineer who stamped the design plans before proceeding with construction.

5. Maintain a minimum one-foot vertical clearance between all City utilities crossing any other utility. Unless otherwise noted, maintain a five-foot horizontal clearance with between a City utility with any other utility or structure. The only exception is that there shall be a ten-foot horizontal clearance between City water and sewer mains.

6. At the end of each day, all trenches shall be backfilled, all equipment secured, and the area left in a safe condition. Steel plates are allowed to remain no longer than seven days. Plates are to be notched (recessed) and pinned to the roadway. Plates must be large enough to allow a minimum of one-foot bearing on all four sides of the pavement surrounding the excavation. The steel plate requirements only apply to public streets.

7. The public road utility patch shall be in accordance with City Standard Detail #60, or as shown on the plans. All trenches in public streets shall be filled with compacted Graded Aggregate Base (GAB) from below the pavement to the top of the pipe embedment zone or to a depth of five-feet, whichever is less.

8. DPW normal working hours are Monday through Friday, except holidays, from 7 a.m. to 5 p.m. The City observes the following holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Thanksgiving Friday, and Christmas Day, and all days of general and congressional elections throughout the State.

The Contractor will not be permitted to close lanes or do any work that requires the services of the City forces, outside of the normal working hours, unless listed in the permit or authorized by DPW in writing. However, the Contractor, with verbal permission of DPW may be permitted to work outside of the normal work hours for clean-up activities or other such items that do not adversely impact traffic, residents or City services.

9. Traffic must be maintained on all roadways within the construction area as directed by DPW. No lane closure shall be permitted between 7:00-9:00 A.M. or 3:30-6:00 P.M. Monday through Friday. An exception is that lane closures are permitted on secondary residential streets at any time during normal working hours. Deployment and design of all traffic control devices shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devises (MUTCD). If required, traffic control plans shall be reviewed and approved by the Chief of the Traffic and Transportation Division. DPW may suspend lane closure or other traffic controls at any time during, or in advance of, inclement weather events.

10. Sheeting and shoring is the total responsibility of the Applicant. A Professional Engineer licensed in the State of Maryland shall seal these drawings. Provide three copies to DPW for informational proposes only.

11. In addition to all City permits, the Applicant is responsible to ensure that all necessary Federal, State and/or Montgomery County approvals and/or permits have been obtained in association with this approved plan.

12. Shop drawings must be prepared and sealed by a Professional Engineer licensed in the State of Maryland prior to fabrication. The Professional Engineer who sealed the design plans (but not the shop drawings) must approve the shop drawings for conformance to the approved design. Provide three copies of approved shop drawings to DPW prior to construction. Standard pre-cast structures previously approved by the Maryland State Highway Administration, Montgomery County and Washington Suburban Sanitation Commission do not require a shop drawing submission. Use actual field soils data for design of pipes and structures. All pipes and structures in paved areas shall be designed for HS-20 vehicle loading.

13. Upon completion of construction, the Applicant shall provide three sets of red lined As-Built prints (24" x 36") for review and approval by DPW. The drawings must contain the original approval signatures and Professional Engineer's seal and signature (a scanned image of the original mylar is acceptable). The As-Built shall be sealed by a Professional Engineer or Professional Surveyor, as appropriate and must be licensed by the State of Maryland. The seal shall note that it is only for the As-Built and shall include an as-built certification acceptable to DPW. Upon receipt of written approval, the Applicant shall provide approved As-Built mylar drawings along with the original mylars (with all original signatures) to DPW prior to the release of the permit.

14. The Applicant must comply with the Montgomery County Noise Control Ordinance. Please refer to the Montgomery County Department of Environmental Protection at 240-777-7770, askdep@montgomerycountymd.gov, or www.montgomerycountymd.gov/DEP.

SUPPLEMENTAL GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE SAFETY OF THE PUBLIC AND ALL WORKERS IS MAINTAINED AT ALL TIMES THROUGHOUT THE TERM OF THE CONTRACT. MOTORIST SHALL BE GUIDED IN A CLEAR AND POSITIVE MANNER WHILE APPROACHING AND PASSING THROUGH CONSTRUCTION WORK AND EQUIPMENT AREAS.

2. THE CONTRACTOR SHALL PROTECT AND NOT INTERRUPT EXISTING UTILITY SERVICES UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. SEE UTILITY STATEMENT.

3. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY OF ROCKVILLE OR THE OWNER.

4. SEVERAL PROPOSED DRAINAGE STRUCTURES AND PIPES WILL CONNECT TO EXISTING STORM DRAIN STRUCTURES AND PIPES. THE CONTRACTOR SHALL FIELD VERIFY INVERTS PRIOR TO ORDERING, FABRICATING OR CONSTRUCTING PROPOSED STORM DRAIN STRUCTURES AND PIPES.

5. MATERIAL REMOVE DURING CONSTRUCTION SHALL BECOME THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS.

6. ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES.

MASTER LEGEND

EX. CONTOURS
EX. INDEX CONTOURS
EX. GIS CONTOURS
EX. WATER
EX. SEWER WATER
EX. OVERHEAD UTILITIES
EX. GAS LINE
EX. ELECTRICAL
EX. TREE LINE
EX. CLEANOUT
EX. SEWER MANHOLE
EX. STORM DRAIN MANHOLE
EX. ELECTRIC MANHOLE
EX. LIGHT POLE
EX. SIGN
EX. WATER VALVE
EX. FIRE HYDRANT
EX. GEOTHERMAL WELLS
SOIL DIVIDE
SOIL TYPE (RuB)
EX. TREE AND CRITICAL ROOT ZONE
EX. SIDEWALK
TRAVERSE POINT (842)

LIMIT OF DISTURBANCE (LOD)
DRAINAGE AREA DIVIDE
SUB-DRAINAGE AREA DIVIDE
SOIL BORING LOCATION (L-2)
PROPERTY LINE
GAS LINE EASEMENT
GAS LINE B.R.L.
SLOPE EASEMENT
PUBLIC UTILITY EASEMENT
TREE REMOVAL (ALL TREES TAKES ARE TO BE FLUSH CUTS, UNLESS OTHERWISE INDICATED)
TREE PROTECTION

MASTER LIST OF ABBREVIATIONS

AC.	-	ACRE(S)	HSG	-	HYDROLOGIC SOIL GROUP
ACI	-	AMERICAN CONCRETE INSTITUTE	INV.	-	INVERT
ASTM	-	AMERICAN SOCIETY FOR TESTING MATERIALS	L	-	LENGTH OF CURVE (CURVE DATA)
℄	-	CENTERLINE	L.F.	-	LINEAR FEET
C/C	-	CENTER-TO-CENTER	MH	-	MANHOLE
CF	-	CUBIC FEET	MSHA	-	MARYLAND STATE HIGHWAY ADMINISTRATION
cfs	-	CUBIC FEET PER SECOND	NAF	-	MAGNETIC NAIL FOUND
CL	-	CLASS	NTS	-	NOT TO SCALE
C.M.P.	-	CORRUGATED METAL PIPE	RCN	-	RUNOFF CURVE NUMBER
CN	-	CONCRETE	R.C.P.	-	REINFORCED CONCRETE PIPE
CPv	-	CHANNEL PROTECTION VOLUME	S.S.	-	SIDE SLOPE
D	-	DEPTH	S.W.M.	-	STORMWATER MANAGEMENT
DA	-	DRAINAGE AREA	T	-	TANGENT (CURVE DATA)
D50	-	50TH PERCENTILE OF DIAMETER	Tc	-	TIME OF CONCENTRATION
D.I.P.	-	DUCTILE IRON PIPE	TYP.	-	TYPICAL
EX.	-	EXISTING	UX	-	UTILITY BOX
FP	-	FLAG POLE	V	-	VELOCITY
f.p.s.	-	FEET PER SECOND	WQv	-	WATER QUALITY VOLUME
FT	-	FEET	Ø	-	DIAMETER
GALV.	-	GALVANIZED	RBF	-	REBAR AND CAP FOUND
H.D.P.E.	-	HIGH DENSITY POLYETHYLENE			
HGL	-	HYDRAULIC GRADE LINE			

Digitally signed by Sari Hiatt
Date: 2025.07.16 23:51:50-04'00'

STATE OF MARYLAND · SARI HIATT · No. 50933 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50933
EXPIRATION DATE: 12/16/2026

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50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
DIRECTOR OF PUBLIC WORKS APPROVAL DATE
PWK # ____ SCP # ____
SMP # ____
REVIEWED BY

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
GENERAL NOTES AND MASTER LEGEND

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025
SCALE: AS SHOWN
SHEET NO. 2 OF 11
FILE # GN-01

GEOTECHNICAL NOTES
November 2016

1. The Applicant shall be responsible for all subgrade inspection and soil compaction testing associated with any work within a City right-of-way, private property subject to a public access easement, or private property subject to City easement for public utilities or public improvements; and/or any work associated with a sediment control facility, or stormwater management practice. This work shall be completed by or under the supervision of a Professional Engineer licensed in the State of Maryland. For the purposes of these notes and associated approved plans, this Engineer shall be referred to as the Geotechnical Engineer and shall be an independent firm from the Applicant.

2. Any plans subject to NRCS-MD Pond Code 378 Standards/Specifications, as shown on the plans, shall supersede these notes when these notes are less stringent or in case of conflict. Any reference to the Engineer in the 378 Standard/Specifications shall be the Professional Engineer who stamped and sealed the design plans. Any reference to the Geotechnical Engineer shall be the Geotechnical Engineer as defined above or the Geotechnical Engineer who completed certain aspects of the pond design.

3. All inspections, tests, supporting data, reports, and certifications shall be provided to the City of Rockville Department of Public Works (DPW) and shall be sealed by the Geotechnical Engineer. Daily inspection reports, if requested by the City, can be provided without being immediately sealed by the Geotechnical Engineer. These reports shall be compiled, reviewed, sealed and then submitted to DPW at a later date as agreed upon by the City.

4. The Geotechnical Engineer shall approve all fill materials that are used for the project. The Geotechnical Engineer shall obtain samples of proposed fill materials and perform all required testing to determine that fill materials are in conformance with this plan.

5. The Geotechnical Engineer shall provide a report that certifies the subgrade preparation and fill/backfill placement are in conformance with this plan. The certification applies to all fill, backfill, and subgrade operations subject to this plan as detailed in Note #1, including utility trenches. When constructing new roadway pavement this certification report shall be provided prior to the placement of Graded Aggregate Base (GAB). All other certifications shall be provided as requested by the City.

6. All fill and/or backfill material shall be free from organics, frozen material, rocks/stones greater than one and a half inches in any dimension, waste metal products, unsightly debris, toxic material, or other deleterious materials; shall be a minimum of 105 pounds per cubic foot for the maximum dry density according to AASHTO T-180, Method C; and shall not have a liquid limit greater than 30 nor a plasticity index greater than six according to ASTM D-4318. All other materials shall meet the requirements stated in Category 900 of the latest edition of the Maryland State Highway Administration (MSHA) Standard Specifications for Construction and Materials.

7. Compact the material that is one foot below the top of subgrade to at least 92 percent of the maximum dry density per AASHTO T-180. Compact the top one foot to at least 97 percent of the maximum dry density. When necessary, add water or dry the layer in order to compact to the required density. Generally the material shall be within two percent of the optimum moisture content but may be outside of this range if approved by the Geotechnical Engineer.

8. Fill and backfill materials must completely fill all spaces under and adjacent to the structure or pipe. For Stormwater Management embankments, the Applicant shall scarify each lift with a sheepsfoot roller or claw to a minimum depth of two-inches prior to placing the next lift. The Applicant shall scarify embankments parallel with the centerline of the dam core and perpendicular to the principal spillway. Bedding shall be provided in accordance with details indicated on the construction drawings. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four-feet, measured horizontally, to any part of a structure. Under no circumstances shall the Applicant drive equipment over any part of a corrugated metal pipe unless there is a compacted fill of 24-inches or greater over the structure or pipe.

9. At a minimum, compaction tests shall be completed for every lift of fill or backfill. The testing frequency shall be at least once per 150 linear feet of trench or once per 1,500 square feet of fill. At a minimum, there shall be at least one compaction test per lift and a least two compaction tests per day. The Geotechnical Engineer shall supply DPW with certified compaction test results, including certification of pipe bedding subgrade and fill subgrade.

10. Prior to placing any roadway fill on existing grades (original grade after topsoil has been stripped, fill prepared by others outside of this plan or fill not prepared under the supervision of the Geotechnical Engineer), scarify the minimum top eight-inches of soil material. Compact this layer to the compaction requirements in these Notes. Proof-roll this compacted layer using a fully loaded dump truck (minimum 20 ton payload capacity). The Geotechnical Engineer shall inspect the proof-rolling and determine if the subgrade is acceptable or if there are areas that require remediation. Subgrade areas that fail proof-rolling shall be remediated to the satisfaction of the Geotechnical Engineer by either of the following methods:

    A. Scarifying, moisture conditioning, and re-compaction of the subgrade materials.
    B. Undercutting soft of unsuitable areas of subgrade and backfilling with compacted select borrow (MSHA Section 916).
    C. Undercutting of soft or unsuitable areas of subgrade and placing a layer of geotextile covered by # MSHA 57 coarse aggregate (Table 901A).

    DPW may approve an alternate approach for soil remediation/improvement if it is recommended and sealed by the Geotechnical Engineer.

11. Except when specified, do not place layers exceeding eight-inches un-compacted depth. Place the material in horizontal layers across the full width of the embankment. Perform all rolling in a longitudinal direction along the embankment. Begin at the outer edges and progress towards the center. Vary the travel paths of traffic and equipment over the width of the embankment to aid in obtaining uniform compaction.

12. Uniformly grade areas to a smooth surface, free of irregular surface changes. Grade and prepare the subgrade section to the lines, grades, cross sections and/or elevations shown on the plans. At all times, maintain the subgrade surface in such condition as to readily drain.

13. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice. Vehicular and equipment traffic shall be distributed across the prepared surface in such a manner as to prevent disturbance. Repair any damage to the prepared subgrade to the satisfaction of the Geotechnical Engineer. The Geotechnical Engineer must approve the storage or stockpiling of heavy loads on a roadway subgrade.

14. Unsuitable existing fill, soft or loose natural soils, organic material, and rubble shall be stripped to approved grades as determined by the Geotechnical Engineer.

15. Protect all structures and utilities from any damage in the handling, processing or compacting of embankment or backfill material. Exercise caution near arches, retaining walls, culverts and utility trenches to prevent undue strain or movement. The Geotechnical Engineer may require the use of specially selected material adjacent to structures to protect against damage. Do not use rock greater than one and a half inches in any dimension adjacent to structures.

16. When placing and compacting embankment on hillsides or against existing embankments, continuously bench the slopes where the slope is steeper than 4:1 when measured at right angles to the roadway or embankment centerline. Perform the benching operation as the embankment is constructed in layers. Maintain a bench width of at least five-feet. Begin each horizontal cut at the intersection of the original ground and the vertical sides of the previous cut. If the material cut from the benches meets fill requirements, compact this material along with the new embankment material.

17. When placing fill over existing pavement, thoroughly break up, scarify, or remove the pavement as specified or as directed by the Geotechnical Engineer.

18. Prior to the placement of asphalt pavement, proof-roll the compacted graded aggregate base (GAB) layer using a fully loaded dump truck (minimum 20 ton payload capacity). The Geotechnical Engineer shall inspect the proof-rolling and determine if the GAB is acceptable or if there are areas that require remediation. GAB areas that fail proof-rolling shall be remediated to the satisfaction of the Geotechnical Engineer by either of the following methods:

    A. Scarifying, moisture conditioning, and re-compaction of the GAB materials.
    B. Undercutting soft of unsuitable areas of GAB and replacing with compacted GAB.

    DPW may approve an alternate approach for GAB remediation/improvement if it is recommended and sealed by the Geotechnical Engineer. The Geotechnical Engineer shall provide a sealed approval of the GAB prior to placement of asphalt. DPW may accept an oral or email approval while the final approval and reports are being compiled and completed.

STORM DRAIN AND PAVING NOTES
December 2022

1. All storm drain and paving construction shall be in accordance with the latest General Specifications and Standard Details of the Maryland State Highway Administration, Montgomery County, and the City of Rockville unless otherwise noted.

2. Material and Installation Requirements for Storm Drain – DPW will accept the following materials for the construction of main line storm drain, except as otherwise specified on the plans:
    A. Reinforced concrete pipe:
        a. Must be Class IV or V in accordance with the latest versions of ASTM C-76 and ASTM C-443 with rubber-gasketed joints and installed with Montgomery County Standard "C" shaped subgrade bedding or better.
    B. Plastic pipe:
        a. Will be allowed for pipes having a minimum diameter of 15" and a maximum diameter of 36" and as designated on the plan in specific installation locations.
        b. Must be corrugated polyethylene drainage pipe meeting AASHTO M252 or AASHTO M294; or corrugated polypropylene drainage pipe meeting AASHTO M330; and installed in accordance with ASTM D2321.
        c. Joints must be watertight according to the requirements of ASTM D3212 with gaskets that meet the requirements of ASTM F477. Gaskets must be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is kept free from debris.
        d. The pipe embedment zone must extend from 6" below the pipe to 12" above the pipe and consist of angular, crushed stone, rock, or gravel with large void content and little to no fines. Embedment zone backfill must meet the Class IA requirements of ASTM D2321 with 100% passing a 1-1/2" screen, less than or equal to 10% passing a #4 screen, and less than 5% passing a #200 screen.
            i. The pipe embedment zone/trench width must be a minimum of twice the pipe diameter plus 2".
            ii. Pipe embedment zone material must be placed along the side of the pipe for the full width of the trench in layers not exceeding an uncompacted depth of 6". Compact and consolidate each layer simultaneously on both sides of the pipe. Compact thoroughly under the haunches of the pipe. Continue this method of filling and compacting until the compacted backfill material is least 12 in. above the top of the pipe.
            iii. The pipe embedment zone must be encapsulated in a geotextile fabric material to protect against the loss of pipe support by preventing the lateral migration of fines from the trench wall into the backfill envelope.

Digitally signed by Sari Huazi
Date: 2025.07.16 23:51:50-04'00'

STATE OF MARYLAND · SARI HUAZI · No. 50933 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50933
EXPIRATION DATE 12/16/2025

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50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

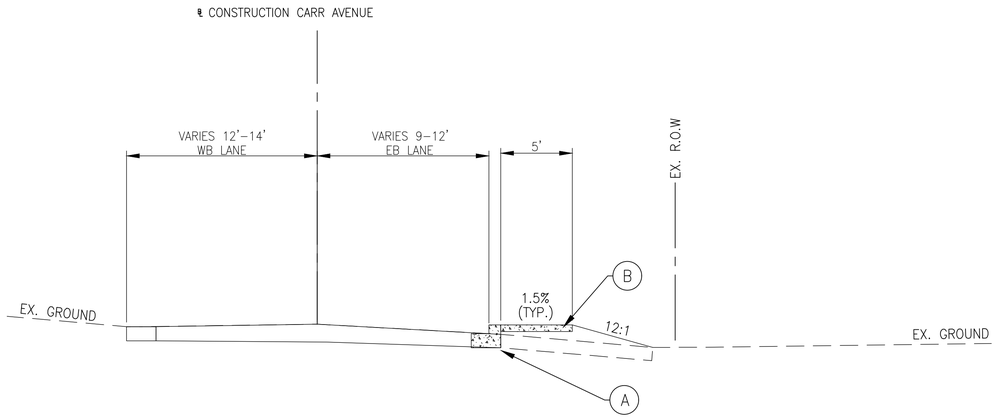
DESIGN PLAN APPROVAL
DIRECTOR OF PUBLIC WORKS APPROVAL DATE
PWK# SCP#
SMP# REVIEWED BY

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
GENERAL NOTES

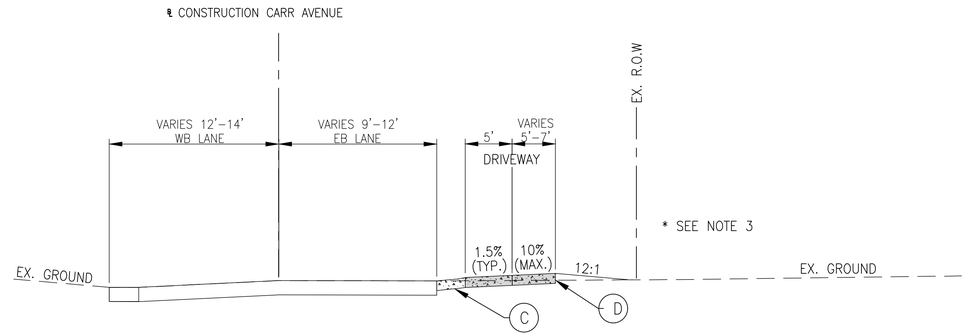
CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025
SCALE AS SHOWN
SHEET NO. 3 OF 11
FILE # GN-02



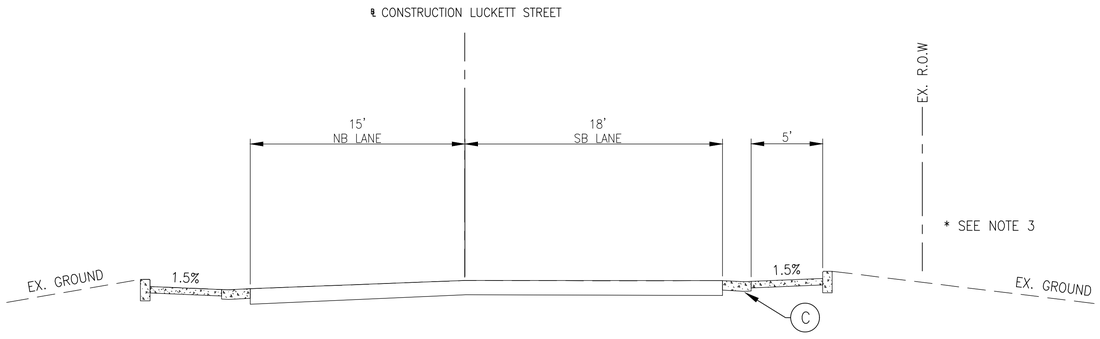
CARR AVENUE TYPICAL SECTION
(SIDEWALK SECTION)

STA. 0+02 TO STA. 1+04
STA. 1+13 TO STA. 1+73
STA. 1+91 TO STA. 2+35
STA. 2+55 TO STA. 3+02
STA. 3+19 TO STA. 3+79
STA. 3+92 TO STA. 4+92



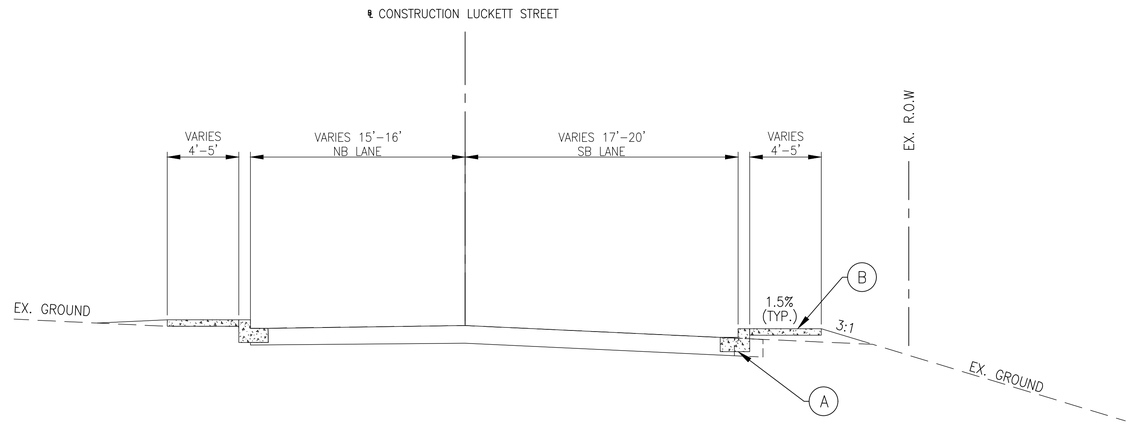
CARR AVENUE TYPICAL SECTION
(DRIVEWAY SECTION)

STA. 1+04 TO STA. 1+13
STA. 1+73 TO STA. 1+91
STA. 2+35 TO STA. 2+55
STA. 3+02 TO STA. 3+19
STA. 3+79 TO STA. 3+92



LUCKETT STREET TYPICAL SECTION

STA. 0+66 TO STA. 0+71



LUCKETT STREET TYPICAL SECTION

STA. 0+26 TO STA. 0+66
STA. 0+71 TO STA. 0+91

*NOTE: STATIONING OF THE SIDEWALK AT THE NB OF LUCKETT STREET TYPICAL SECTION IS FROM STA. 0+49 TO STA. 0+66.

NOTES:

1. SAW CUTS ARE INCIDENTAL TO THE EXCAVATION OR PAVING ITEMS.
2. ALL ROADWAY EXCAVATION SHALL BE DEFINED AS CLASS 1 (OR CLASS 1A, IF APPLICABLE) REGARDLESS OF THE WIDTH OF THE EXCAVATION.
3. SEE ROADWAY PLANS AND SHEETS DT-01 FOR DRIVEWAY ENTRANCE DETAILS.

TYPICAL SECTION LEGEND

Ⓐ MC 100.01 COMBINATION CURB AND GUTTER TYPE A. SEE DETAIL ON SHEET DT-01.

Ⓑ 4" CONCRETE SIDEWALK. SEE DETAIL MC-110.01 ON SHEET DT-01.

Ⓒ DEPRESSED CONCRETE CURB FOR DRIVEWAYS AND RAMPS SEE DETAIL MC-102.011 ON SHEET DT-01.

Ⓓ 7 INCH PLAIN PORTLAND CEMENT CONCRETE PAVEMENT. SEE DETAIL SF-2.1 AND SF-2.2 ON SHEET DT-01.

Digitally signed by Sari Huatz
Date: 2025.07.16 23:51:51-04'00'

STATE OF MARYLAND · SARI HUATZ · No. 50933 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50933
EXPIRATION DATE: 12/16/2026

CPJ Associates
Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
6305 Ivy Lane, Suite 710, Greenbelt, MD 20770 301-220-0600 Fax: 301-434-9394
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50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY:	CG
DRAFTED BY:	JMN
CHECKED BY:	SH
SUBMITTED BY:	SH

DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____
REVIEWED BY
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
TYPICAL SECTION

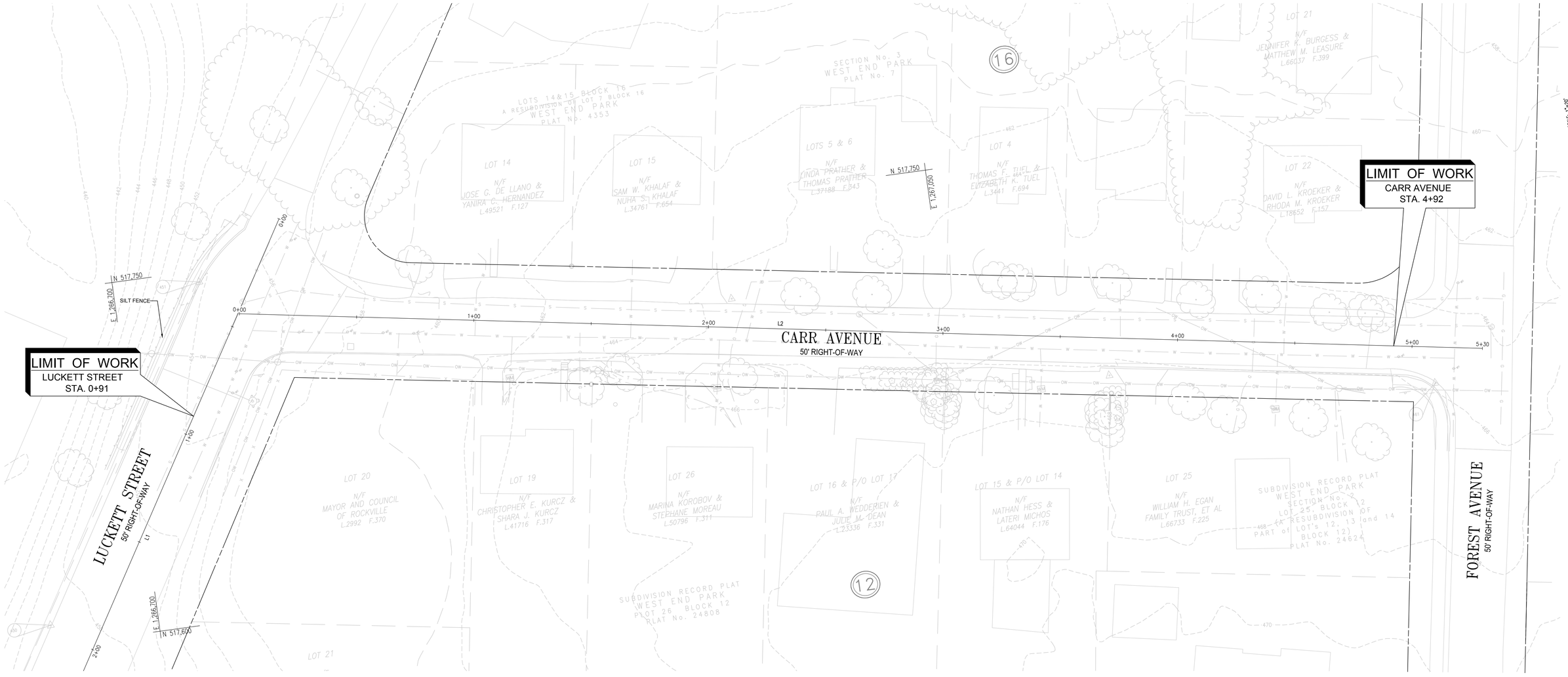
CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025
SCALE AS SHOWN
SHEET NO. 4 OF 11
FILE # TS-01

BENCHMARK CHART				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
450	517608.8678	1266654.2142	449.89	X-CUT SET
451	517745.1321	1266736.9370	454.78	X-CUT SET
461	517630.3550	1267252.9103	465.84	NAIL SET
462	517345.1017	1267242.5571	473.06	NAIL SET

Line Table: Luckett Street				
Line #	Length	Direction	Start Point	End Point
L1	400.000	S31° 15' 01.98"W	(1266774.2196,517767.1283)	(1266566.7070,517425.1655)

Line Table: Carr Avenue				
Line #	Length	Direction	Start Point	End Point
L2	530.001	S80° 32' 12.69"E	(1266751.9650,517729.3883)	(1267274.7534,517642.2492)



Digitally signed by Sari Hijazi
Date: 2025.07.16 23:51:51-04'00'

STATE OF MARYLAND · SARI HIJAZI · No. 509332 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 509332
EXPIRATION DATE: 12/16/2025

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JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL					

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____ REVIEWED BY _____
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
GEOMETRY PLAN

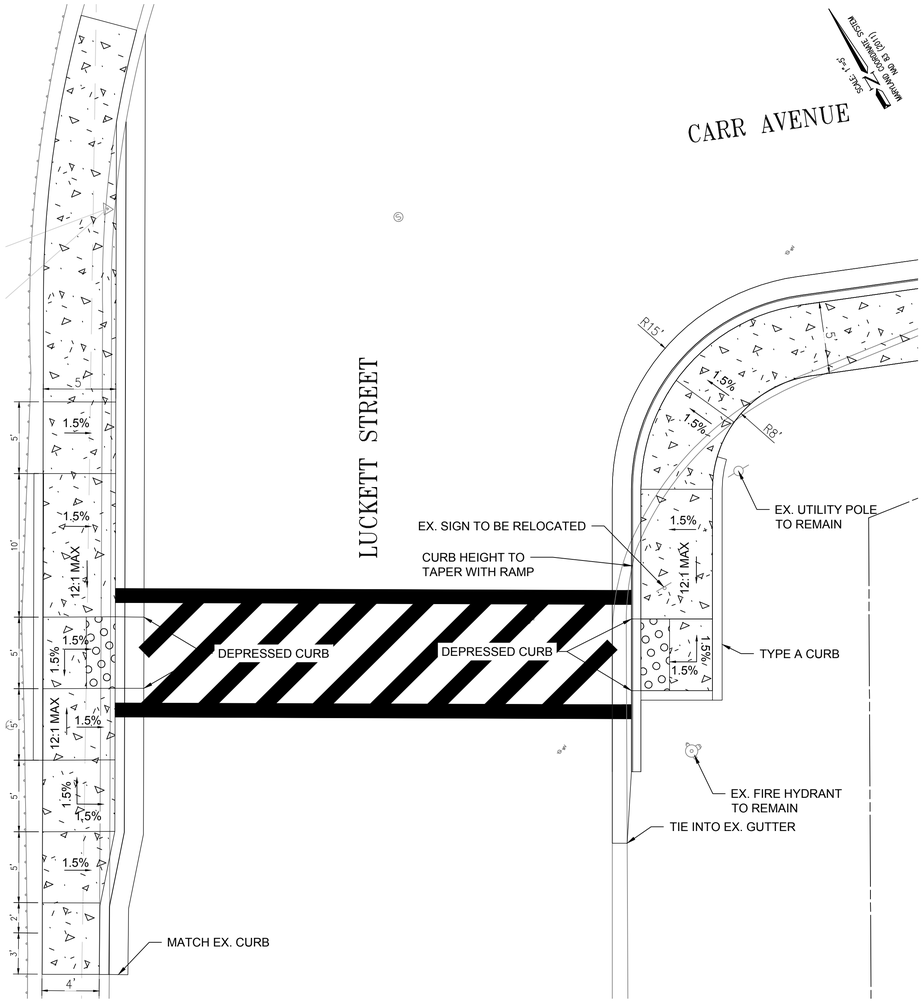
CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025

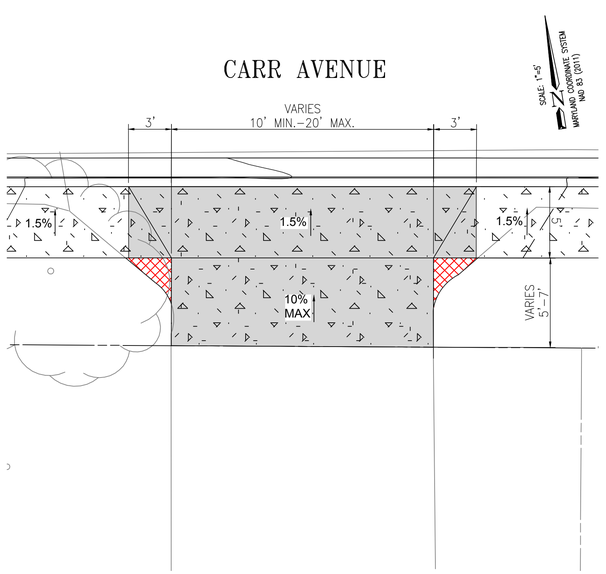
SCALE AS SHOWN

SHEET NO. 5 OF 11

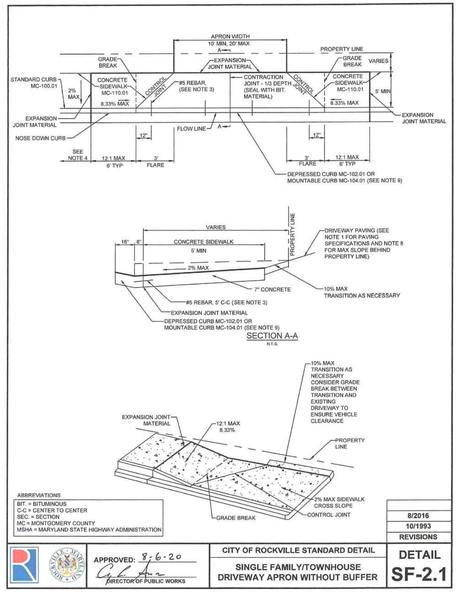
FILE # GP-01



DETAIL 1
SCALE: 1"=5'-0"



DETAIL 2
SCALE: 1"=5'-0"



ABBREVIATIONS
BIT. = BITUMINOUS
C/C = CENTER TO CENTER
SEC. = SECTION
MC = MONTGOMERY COUNTY
MSHA = MARYLAND STATE HIGHWAY ADMINISTRATION

REVISIONS
8/2016
10/1993

APPROVED: 8-6-20 — DIRECTOR OF PUBLIC WORKS

CITY OF ROCKVILLE STANDARD DETAIL
SINGLE FAMILY/TOWNHOUSE DRIVEWAY APRON WITHOUT BUFFER

DETAIL SF-2.1

DEFINITIONS

1. SINGLE FAMILY/TOWNHOUSE DRIVEWAY APRON (SF-1.1 AND SF-2.1) SHALL BE USED FOR ALL PROPERTIES WHERE THE PRINCIPAL USE OF THE LOT IS A SINGLE DWELLING UNIT, EITHER DETACHED, SEMI-DETACHED, OR A TOWNHOUSE AS DEFINED IN THE ZONING ORDINANCE.
2. COMMERCIAL/MIXED-USE DRIVEWAY APRON (CM-1.1 AND CM-2.1) SHALL BE USED FOR ALL PROPERTIES WHERE THE PRINCIPAL USE OF THE LOT IS ANY USE OTHER THAN A SINGLE DWELLING UNIT, EITHER DETACHED, SEMI-DETACHED, OR A TOWNHOUSE AS DEFINED IN THE ZONING ORDINANCE.

NOTES

1. PER CITY CODE SEC. 25.16.06d - PAVING SPECIFICATIONS, ALL OFF STREET PARKING AND LOADING AREAS MUST BE SO DRAINED AS TO PREVENT DAMAGE TO ABUTTING PROPERTIES OR PUBLIC STREETS AND MUST BE PAVED WITH A MINIMUM OF:
   - A PERVIOUS PAVING MATERIAL AS APPROVED BY THE DIRECTOR OF THE DEPARTMENT OF PUBLIC WORKS;
   - SIX (6) INCHES OF CONCRETE;
   - SIX (6) INCHES OF BITUMINOUS ASPHALT;
   - SIX (6) INCHES OF COMPACTED GRAVEL AND TWO (2) INCHES OF BITUMINOUS ASPHALT;
   - OTHER PAVING AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
2. ALL CONCRETE TO BE MSHA MIX NO 9, AIR ENTRAINED. REFER TO MSHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION.
3. JOINT AT BACK OF CURB IS OPTIONAL WHERE USED, APRON IS TO BE TIED TO GUTTER WITH MINIMUM 18" LENGTH #5 REBAR AT 5' C-C.
4. CURB AND GUTTER REMOVAL CAN NOT RESULT IN A REMAINDER LENGTH (JOINT TO JOINT) OF LESS THAN FIVE FEET. IN THIS CASE, REMOVE TO THE NEXT JOINT AND REPLACE IN KIND.
5. PERMITTEE IS RESPONSIBLE FOR GRADING, SODDING DISTURBED AREAS AND MISCELLANEOUS RELATED WORK.
6. SUBGRADE TO BE COMPACTED TO 95% AASHTO T-99.
7. LOCATION AND TYPE OF APRON ARE SUBJECT TO APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
8. MAXIMUM SLOPE FOR DRIVEWAY BEYOND PROPERTY LINE IS 14%.
9. MAINTAIN 2% SLOPE ACROSS APRON TOWARD STREET. MOUNTABLE CURB (MC104.01) MAY BE PROPOSED WHERE BACK OF APRON CANNOT BE LOWERED TO MEET EXISTING CONDITIONS.

REVISIONS
8/2016
10/1993

APPROVED: 8-6-20 — DIRECTOR OF PUBLIC WORKS

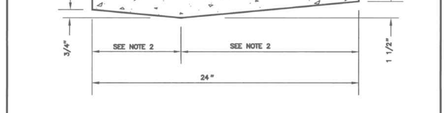
CITY OF ROCKVILLE STANDARD DETAIL
SINGLE FAMILY/TOWNHOUSE DRIVEWAY APRON WITHOUT BUFFER

DETAIL SF-2.2

GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THIS STANDARD SHALL BE USED ON PRIMARY RESIDENTIAL, ARTERIAL AND BUSINESS DISTRICT ROADS AS WELL AS CURB RETURNS AND INLET THROATS.
3. WHENEVER STANDARD MC-101.01 CURB IS USED IN CONJUNCTION WITH THIS STANDARD, A TEN FOOT TRANSITION SHALL BE PROVIDED FROM STANDARD MC-100.01 TO STANDARD MC-101.01 FOR CURB RETURNS AND CURB SECTIONS WHICH INCLUDE INLETS.
4. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
5. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920. ⚠1

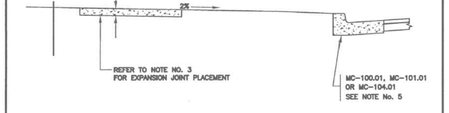
APPROVED 14 APR '06 (DATE)	REVISED	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION	⚠1 ASTM-C920 4/2006	COMBINATION CONCRETE CURB AND GUTTER TYPE A
for CHIEF, DIV. OF CAP. DEV.		STANDARD NO. MC-100.01



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THE DISTANCES FROM THE FLOWLINE TO THE FRONT AND BACK EDGE OF CURB SHALL BE ADJUSTED TO MATCH EXISTING CONDITIONS.
3. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
4. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920. ⚠1

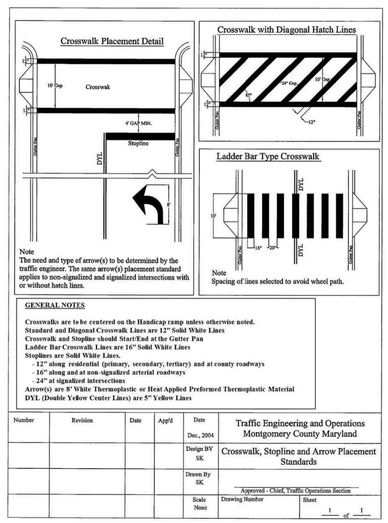
APPROVED 14 APR '06 (DATE)	REVISED	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION	⚠1 ASTM-C920 4/2006	DEPRESSED CURB ENTRANCE
for CHIEF, DIV. OF CAP. DEV.		STANDARD NO. MC-102.01



GENERAL NOTES

1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. REFER TO THE APPLICABLE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DETAILS AT DRIVEWAYS.
3. EXPANSION JOINTS SHALL HAVE A MAXIMUM SPACING OF 100 FEET AND BE LOCATED AT POINTS OF CURVATURE. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920. ⚠1
4. SCORE THE CONCRETE TO A DEPTH OF 1/3 THE SLAB THICKNESS TO PROVIDE WEAKENED PLANE TRANSVERSE JOINTS AT 5'-0" INTERVALS.
5. REFER TO THE APPLICABLE ROAD STANDARD AND CURB AND GUTTER STANDARDS FOR OTHER OPTIONS.
6. SIDEWALK WIDTH SHALL BE 4'-0" FOR SECONDARY AND TERTIARY ROADWAYS.

APPROVED 14 APR '06 (DATE)	REVISED	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIRECTOR, DEPT. OF TRANS.	⚠1 ASTM-C920 4/2006	RESIDENTIAL SIDEWALK CLOSED SECTION
for CHIEF, DIV. OF CAP. DEV.		STANDARD NO. MC-110.01



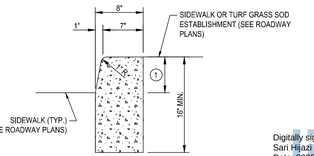
GENERAL NOTES

Crosswalks are to be centered on the Handicap ramp unless otherwise noted.
Standard and Diagonal Crosswalk Lines are 12" Solid White Lines
Crosswalk and Stopline should Start/End at the Gutter Pan
Ladder Bar Crosswalk Lines are 16" Solid White Lines
Stoplines are Solid White Lines.
- 12" along residential (primary, secondary, tertiary) and at county roadways
- 16" along and at non-signalized arterial roadways
- 24" at signalized intersections

Arrow(s) are 8' White Thermoplastic or Heat Applied Preformed Thermoplastic Material
DYL (Double Yellow Center Lines) are 5" Yellow Lines

Number	Revision	Date	Appl'd

Date: Dec., 2004
Design BY: SK
Drawn By: SK
Scale: None
Traffic Engineering and Operations Montgomery County Maryland
Crosswalk, Stopline and Arrow Placement Standards
Approved - Chief, Traffic Operations Section
Drawing Number
Sheet 1 of 1



SHA TYPE A CURB
ANY HEIGHT OR DEPTH
N.T.S.

(1) HEIGHT VARIES FROM 0" TO 6" MAXIMUM. (SEE PLANS AND DETAILS FOR CURB HEIGHT)

NOTE:
MAXIMUM JOINT SPACING FOR CONCRETE CURB AND COMBINATION CURB & GUTTER IS 10'. SEE SPECIFICATION FOR LOCATIONS AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED.

LEGEND

- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- DETECTABLE WARNING SURFACE
- PAVEMENT REMOVAL (PAID FOR AS CLASS I EXCAVATION)

Digitally signed by Sari Hijazi
Date: 2025.07.16 23:51:51-04'00'

STATE OF MARYLAND — SARI HIJAZI — No. 50932 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50932
EXPIRATION DATE: 12/10/2026

CPJ Associates — Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
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50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____
REVIEWED BY _____
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
ROADWAY DETAILS

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025
SCALE AS SHOWN
SHEET NO. 6 OF 11
FILE # DT-01

LEGEND

- LOD ——— LOD ——— LIMITS OF DISTURBANCE
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- DETECTABLE WARNING SURFACE
- PAVEMENT REMOVAL
- EXISTING TREE TO REMAIN

SHA TYPE A CURB		
STA. 0+56 TO 0+76 RT	LUCKETT STREET	28 SF
STA. 0+55 TO 0+71 RT	LUCKETT STREET	22 SF

DETECTABLE WARNING SURFACE - MD SHA STD. NO. 655.40		
STA. 0+68 RT	LUCKETT STREET	10 SF
STA. 0+68 LT	LUCKETT STREET	10 SF

CONCRETE CURB AND GUTTER TYPE A - MC 100.01		
STA. 0+02 TO 0+06 RT	CARR AVENUE	6 LF
STA. 0+08 TO 1+04 RT	CARR AVENUE	107 LF
STA. 1+13 TO 1+73 RT	CARR AVENUE	60 LF
STA. 1+91 TO 2+35 RT	CARR AVENUE	44 LF
STA. 2+56 TO 3+02 RT	CARR AVENUE	46 LF
STA. 3+19 TO 3+79 RT	CARR AVENUE	60 LF
STA. 3+92 TO 4+02 RT	CARR AVENUE	10 LF
STA. 0+26 TO 0+66 RT	LUCKETT STREET	40 LF
STA. 0+71 TO 0+91 RT	LUCKETT STREET	20 LF

DEPRESSED CONCRETE CURB - MC 102.01		
STA. 0+06 TO 0+08 RT	CARR AVENUE	5 LF
STA. 1+04 TO 1+13 RT	CARR AVENUE	9 LF
STA. 1+73 TO 1+91 RT	CARR AVENUE	18 LF
STA. 2+35 TO 2+56 RT	CARR AVENUE	21 LF
STA. 3+02 TO 3+19 RT	CARR AVENUE	17 LF
STA. 3+79 TO 3+92 RT	CARR AVENUE	13 LF
STA. 0+66 TO 0+71 RT	LUCKETT STREET	5 LF

7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY - SF-2.1 AND SF-2.2		
STA. 1+04 TO 1+13 RT	CARR AVENUE	12 SY
STA. 1+73 TO 1+91 RT	CARR AVENUE	26 SY
STA. 2+35 TO 2+56 RT	CARR AVENUE	26 SY
STA. 3+02 TO 3+19 RT	CARR AVENUE	20 SY
STA. 3+79 TO 3+92 RT	CARR AVENUE	17 SY

4 INCH CONCRETE SIDEWALK - MC-100.01		
STA. 0+06 TO 1+04 RT	CARR AVENUE	537 SF
STA. 1+38 TO 1+41 RT	CARR AVENUE	15 SF
STA. 1+13 TO 1+73 RT	CARR AVENUE	281 SF
STA. 1+91 TO 2+35 RT	CARR AVENUE	202 SF
STA. 2+56 TO 3+02 RT	CARR AVENUE	224 SF
STA. 3+19 TO 3+79 RT	CARR AVENUE	287 SF
STA. 3+92 TO 4+92 RT	CARR AVENUE	504 SF
STA. 0+26 TO 0+91 RT	LUCKETT STREET	308 SF

STATE OF MARYLAND · SARI HIJAZI · No. 50931 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50931
EXPIRATION DATE: 12/16/2027

Digitally signed by Sari Hijazi
Date: 2025.12.24 09:01:25-05'00'

GRAPHIC SCALE
20 0 10 20 40
SCALE: 1" = 20'

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50% DESIGN SUBMISSION
DECEMBER 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
DIRECTOR OF PUBLIC WORKS APPROVAL DATE
PWK# SCP#
SMP# REVIEWED BY

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
ROADWAY PLAN

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: **DECEMBER 2025**

SCALE AS SHOWN

SHEET NO. 7 OF 14

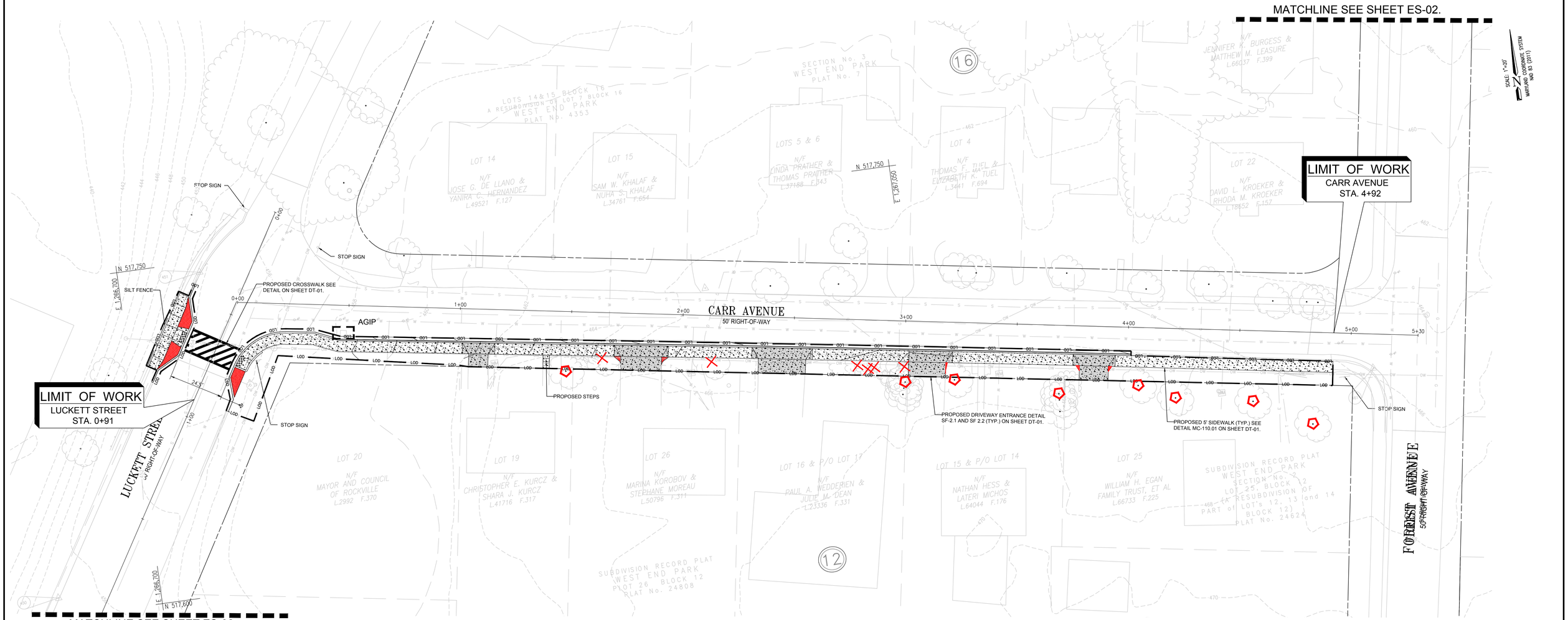
FILE # PS-01

SILT FENCE		
STATION	LF	LOCATION
0+46 TO 0+91	45	LUCKETT STREET

INLET PROTECTION		
STATION	TYPE	LOCATION
3+25 LT	CURB INLET PROTECTION	LUCKETT STREET
3+35 RT	CURB INLET PROTECTION	LUCKETT STREET
0+34 RT	CURB INLET PROTECTION	DAWSON AVENUE
0+83 LT	CURB INLET PROTECTION	DAWSON AVENUE
0+48 RT	AT-GRADE INLET PROTECTION	CARR AVENUE

TREE PROTECTION	
STA. 1+48 RT	CARR AVENUE
STA. 3+00 RT	CARR AVENUE
STA. 3+23 RT	CARR AVENUE
STA. 3+70 RT	CARR AVENUE
STA. 4+05 RT	CARR AVENUE
STA. 4+22 RT	CARR AVENUE
STA. 4+57 RT	CARR AVENUE
STA. 4+84 RT	CARR AVENUE

TREE REMOVAL	
STA. 1+64 RT	CARR AVENUE
STA. 2+13 RT	CARR AVENUE
STA. 2+79 RT	CARR AVENUE
STA. 2+84 RT	CARR AVENUE
STA. 2+86 RT	CARR AVENUE
STA. 3+00 RT	CARR AVENUE



LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- DETECTABLE WARNING SURFACE
- PAVEMENT REMOVAL
- EXISTING TREE TO REMAIN (PROVIDE TREE PROTECTION)
- EXISTING TREE TO BE REMOVED
- AGIP — AT-GRADE INLET PROTECTION
- CIP — CURB INLET PROTECTION

SEE SEQUENCE OF CONSTRUCTION ON SHEET ES-02

SOILS		
SOIL TYPE	HYDROLOGIC SOIL GROUP	SOIL NAME
2B	B	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES

STATE OF MARYLAND — SARI HIJAZI — No. 50931 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50931
EXPIRATION DATE: 12/16/2027

Digitally signed by Sari Hijazi
Date: 2025.12.24 09:01:25-05'00'

GRAPHIC SCALE
20 0 10 20 40
SCALE: 1" = 20'

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50% DESIGN SUBMISSION
DECEMBER 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

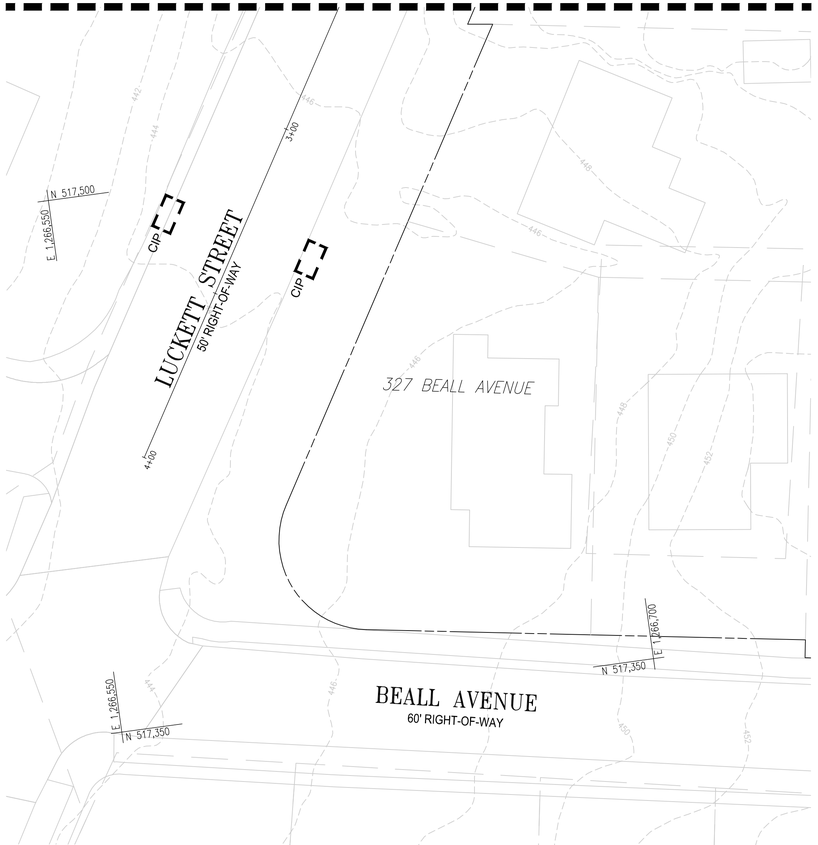
DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____ REVIEWED BY _____
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
EROSION AND SEDIMENT CONTROL PLANS

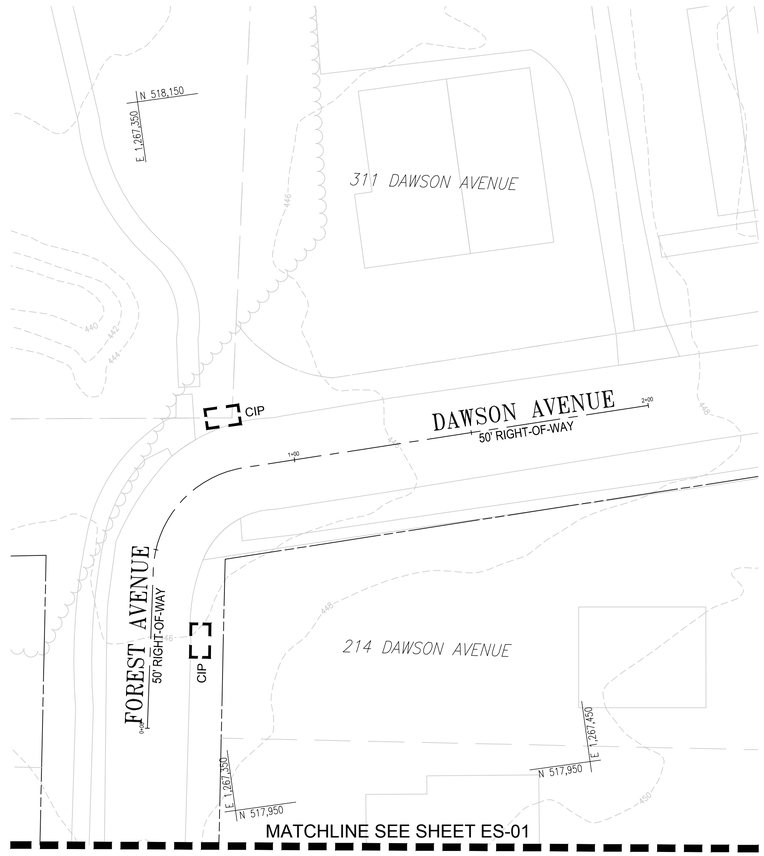
CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: DECEMBER 2025
SCALE AS SHOWN
SHEET NO. 8 OF 14
FILE # ES-01



LUCKETT STREET INLET PROTECTION

SCALE: 1"=20'-0"



DAWSON AVENUE INLET PROTECTION

SCALE: 1"=20'-0"

INLET PROTECTION		
STATION	TYPE	LOCATION
3+30 RT	CURB INLET PROTECTION	LUCKETT STREET
3+33 LT	CURB INLET PROTECTION	LUCKETT STREET
0+83 LT	CURB INLET PROTECTION	DAWSON AVENUE
0+25 RT	CURB INLET PROTECTION	FOREST AVENUE

SEQUENCE OF CONSTRUCTION

THIS SEQUENCE PROVIDES THE MINIMUM PROJECT MILESTONES AND STEPS CAN BE MODIFIED AS DIRECTED BY THE CITY SC INSPECTOR.

THE CONTRACTOR MUST CONTACT MISS UTILITY AT 1-800-257-7777 FOR MARKING OF UTILITIES. UTILITIES MUST BE MARKED PRIOR TO PRE-CONSTRUCTION MEETING. REQUIREMENTS FOR STORMWATER MANAGEMENT INSPECTIONS AND SUBMISSION OF AS-BUILT DRAWINGS, INCLUDING MATERIAL TICKETS MUST BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING.

STABILIZATION MEASURES AND SCHEDULE MUST BE IN COMPLIANCE WITH THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) STANDARDS AND SPECIFICATIONS AND THE STANDARD STABILIZATION NOTE ON THIS PLAN. THE LIMITS OF DISTURBANCE AND THE LOCATIONS OF TREE SAVE MEASURES MUST BE STAKED IN THE FIELD PRIOR TO THE PRE-CONSTRUCTION MEETING.

ALL TREE REMOVAL AND TREE IMPACT MITIGATION MUST BE PREFORMED BY A CONTRACTOR WHO IS BOTH AN ISA CERTIFIED ARBORIST AND MD LICENSED TREE EXPERT.

1. THE CONTRACTOR MUST HOLD A PRE-CONSTRUCTION MEETING AT THE SITE WITH AUTHORIZED REPRESENTATIVES OF THE DEPARTMENT OF PUBLIC WORKS (DPW) AND THE FORESTRY INSPECTOR BEFORE COMMENCING AND LAND DISTURBANCE ACTIVITY. THE SPECIFIC PROJECT SEQUENCE WILL BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING.

THE CONTRACTOR MUST CONTACT THE FOLLOWING WITH A MINIMUM OF 48 HOURS NOTICE TO SCHEDULE THE PRE-CONSTRUCTION MEETING:
   A. CITY SEDIMENT CONTROL (SC) INSPECTOR AS LISTED ON PERMIT.
   B. CITY PROJECT INSPECTOR AS LISTED ON PERMIT.
   C. FORESTRY INSPECTOR AS LISTED ON PERMIT.
   D. THE CONTRACTOR MUST ALSO BE PRESENT AT THE PRE-CONSTRUCTION MEETING.

2. WHEN APPLICABLE AND WITH THE FORESTRY INSPECTOR'S PERMISSION, PERFORM TREE IMPACT MITIGATION MEASURES AND INSTALL TREE SAVE FENCE AS DIRECTED BY FORESTRY INSPECTOR. CLEAR TREES AND CALL THE FORESTRY INSPECTOR FOR INSPECTION AND PERMISSION TO PROCEED.
3. WITH THE CITY SC INSPECTOR'S PERMISSION INSTALL SEDIMENT CONTROL MEASURES. NO FURTHER ACTIVITY IS PERMITTED UNTIL THE SC INSPECTOR CONFIRMS THAT ALL REQUIRED SEDIMENT CONTROL MEASURES ARE PROPERLY INSTALLED
4. SEDIMENT CONTROL AND TREE PROTECTION DEVICES WILL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE MDE AND CITY OF ROCKVILLE REGULATIONS.
5. BEGIN GRUBBING AND ROUGH GRADING. ALL DIRT AND MATERIALS MUST BE STORED WITHIN THE LIMITS OF DISTURBANCE OR IMMEDIATELY HAULED OFFSITE FOR DISPOSAL.
6. BEGIN CONSTRUCTION OF NEW CURB AND GUTTER, DRIVEWAY APRONS, AND SIDEWALK.
7. FINE GRADE AND TOPSOIL PER STANDARDS AND SPECIFICATIONS FOR TOPSOIL IN ON THIS PLAN.
8. PERFORM FINAL PAVEMENT RESURFACING OPERATIONS.
9. COMPLY WITH ALL REQUIREMENTS OF THE FORESTRY PERMIT, AS APPLICABLE. ONCE THE SITE IS STABILIZED AND WITH THE CITY'S SC INSPECTOR'S PERMISSION, REMOVE THE SEDIMENT CONTROL MEASURES AND STABILIZE THE AREAS DISTURBED BY THEIR REMOVAL.
10. SUBMIT AS-BUILT DRAWINGS AND MATERIAL TICKETS TO DPW IF A CONDITION OF THE PWK AND/OR SMP PERMIT(S) REQUIRES IT.

LEGEND

CIP — CURB INLET PROTECTION

Digitally signed by Sari Hijazi
Date: 2025.07.16 23:51:53-04'00'

STATE OF MARYLAND · SARI HIJAZI · No. 50932 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50932
EXPIRATION DATE 12/16/2025

GRAPHIC SCALE
20 0 10 20 40
SCALE: 1" = 20'

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50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____
REVIEWED BY
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
EROSION AND SEDIMENT CONTROL PLANS

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025

SCALE AS SHOWN

SHEET NO. 9 OF 11

FILE # ES-02

City of Rockville
Get Into It

EROSION AND SEDIMENT CONTROL NOTES

November 2016

1. The Applicant must obtain inspection and approval by the City of Rockville Department of Public Works (DPW) at the following points:
   a. At the required preconstruction meetings.
   b. Following installation of sediment control measures and prior to any other land disturbing activity.
   c. During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction is mandatory.
   d. Prior to removal or modification of any sediment control devices.
   e. Prior to final acceptance.

2. All erosion control measures are to be constructed and maintained in accordance with applicable published standards and specifications and the most current "Maryland Standards and Specifications for Soil Erosion and Sediment Control."

3. The Applicant shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by DPW prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices and shall not remove any erosion or sediment control measures without prior permission from DPW.

4. Any request for changes to the approved sediment control plan or sequence of construction must be submitted to the DPW Sediment Control Inspector and approved before implementing changes. Major changes will require a plan revision.

5. The Applicant shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.

6. The Applicant shall inspect daily and maintain continuously in effective operating condition all erosion and sediment control measures until such time as they are removed with prior permission from the DPW Sediment Control Inspector.

7. All sediment basins, trap embankments, swales, perimeter dikes and permanent slopes steeper or equal to 3:1 shall be stabilized with sod, seed and anchored straw mulch or other approved stabilization measures, within seven calendar days of establishment. All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization. Restabilization or overseeding will be required, if necessary.

8. The Applicant shall apply sod, seed and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Other active construction areas that are not being actively graded (i.e. routes for construction vehicles within a site) may be required to be stabilized at the direction of the inspector. Stockpiles, which have not been used for seven (7) calendar days, shall be stabilized through the application of sod, seed, and anchored straw mulch, or other approved stabilization methods.

9. Prior to removal of sediment control measures, the Applicant shall stabilize all contributory disturbed areas using sod or an approved permanent seed mixture with required soil amendments and an approved anchored mulch. Wood fiber mulch may only be used in seeding season to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.

10. The site work, materials, approved Sediment Control and Stormwater Management Plans, and any required test reports shall be available, at the site for inspection by duly authorized officials of the City of Rockville.

11. Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water downslope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.

12. Permanent swales or other points of concentrated water flow shall be stabilized with sod or seed with approved erosion control matting or by other approved stabilization measures.

13. Temporary sediment control devices shall be removed, with permission of DPW, within 30 calendar days following establishment of permanent stabilization in all contributory drainage areas. If establishment is not full and uniform as determined by the DPW Sediment Control Inspector, overseeding will be required. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.

14. No permanent cut or fill slope with a gradient steeper than 3: l will be permitted in lawn maintenance areas. A slope gradient of up to 2:1 will be permitted in areas that are not to be maintained provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.

15. The Applicant shall install a splash block at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.

16. All water pumped from an excavation during construction shall be pumped either to sediment tanks and/or sediment traps. No water will be pumped to the storm drain system or swale. De-watering shall be performed in accordance with the most current Maryland Standards and Specifications for Soil Erosion and Sediment Control.

17. For finished grading, the Applicant shall provide adequate gradients so as to: (1) prevent water from standing on the surface of lawns more than 24 hours after the end of a rainfall, except in designated drainage courses and swale flow areas which may drain as long as 48 hours after the end of a rainfall, and (2) provide positive drainage away from all building foundations or openings.

18. Sediment traps or basins are not permitted within 20-feet of a building, which exists or is under construction. No building may be constructed within 20-feet of a sediment trap or basin.

19. All inlets in non-sump areas shall have asphalt berms installed at the time of base paving to direct runoff to inlets.

20. The DPW Sediment Control Inspector has the option of requiring additional sediment control measures, if deemed necessary.

21. All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.

22. Vegetative stabilization shall be performed in accordance with the most current Maryland Standards and Specifications for Soil Erosion and Sediment Control.

23. Temporary sediment trap(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to a point one-half the depth between the outlet crest and the bottom of the trap.

24. Sediment removed from traps shall be placed and stabilized in approved areas in such a manner that it does not foul existing or proposed storm drainage systems or areas already stabilized. Sediment shall not be placed within a flood plain or wetland.

25. All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42-inches high, have posts spaced no farther apart than eight-feet, have mesh openings no greater than two-inches in width and four-inches in height with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.

26. Off-site spoil or borrow areas must have approved sediment control plans.

27. Protect all trees to be preserved during construction in accordance with the approved Forest Conservation Plan.

28. The Applicant is responsible for all actions of contractor and subcontractors, including repairing damage to sediment control devices and existing infrastructure.

29. The Applicant shall comply with all provisions of the NPDES Construction Discharge Permit. A copy of the permit and all required reports shall be available on site at all times.

Digitally signed by Sari Hiatt
Date: 2025.07.16 23:51:53-04'00'

STATE OF MARYLAND · SARI HIATT · No. 50933 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50933
EXPIRATION DATE 12/16/2026

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JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY: CG
DRAFTED BY: JMN
CHECKED BY: SH
SUBMITTED BY: SH

DESIGN PLAN APPROVAL
DIRECTOR OF PUBLIC WORKS APPROVAL DATE
PWK# SCP#
SMP# REVIEWED BY

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

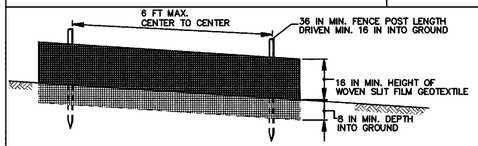
CARR AVENUE SIDEWALK PROJECT
EROSION AND SEDIMENT CONTROL NOTES

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

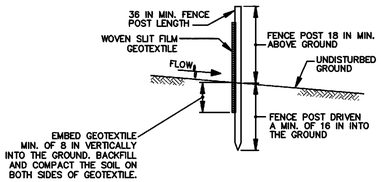
DATE SUBMITTED: 07/18/2025
SCALE AS SHOWN
SHEET NO. 10 OF 11
FILE # ES-03

DETAIL E-1 SILT FENCE

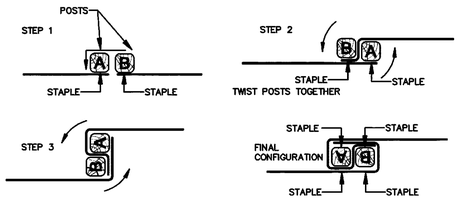
STANDARD SYMBOL: SF



ELEVATION



CROSS SECTION



JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± ⅛ INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

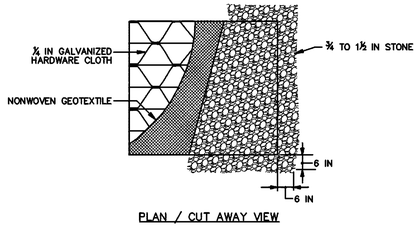
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

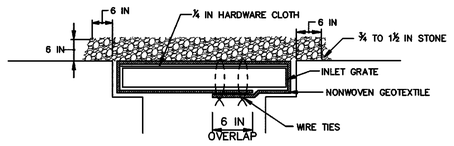
DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL: AGIP

MAXIMUM DRAINAGE AREA = 1 ACRE



PLAN / CUT AWAY VIEW



CROSS SECTION

CONSTRUCTION SPECIFICATIONS

1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

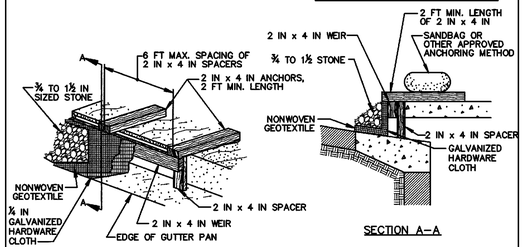
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CIP

MAXIMUM DRAINAGE AREA = ¼ ACRE



ISOMETRIC

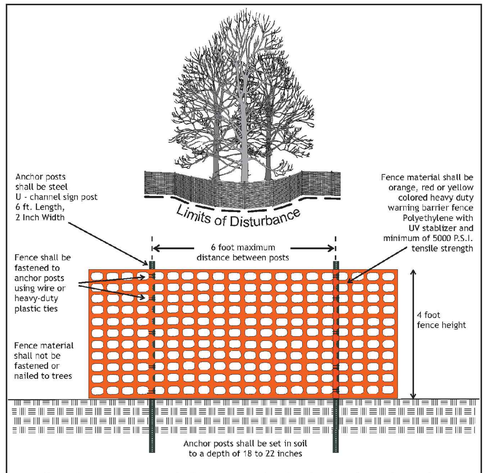
SECTION A–A

CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH x 4 INCH LUMBER
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF ¼ INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
6. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
7. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
8. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
9. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

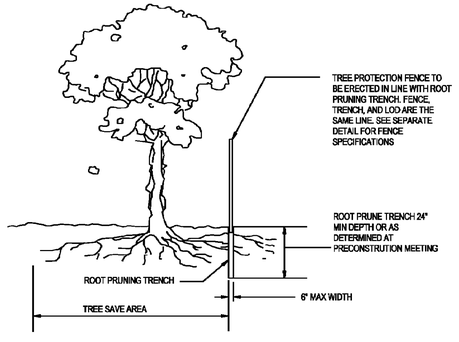
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



Unless trees are already protected by means of sediment and erosion control devices such as super silt fence, tree protection fencing shall be installed along the approved limits of disturbance before any clearing, grading or construction activities begin; and, shall be maintained throughout all active phases of construction. If for any reason DPS determines that polyethylene barrier fence is not providing effective protection, other forms of tree protection such as 14-gauge welded wire or chain link fencing may be required as a replacement

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES	TREE PROTECTION FENCING DETAIL	DATE: 6 /14
		SCALE: NONE



NOTES:

1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.

2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.

3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INPECTOR .

4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.

5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL

NTS

NOTES:

1. ALL AREAS OUTSIDE LOD SHALL BE CONSIDERED TREE PRESERVATION AREAS TO BE LEFT UNDISTURBED.
2. SEE TREE PROTECTION FENCE DETAIL, THIS SHEET.
3. TREE PROTECTION FENCE SHOWN ON ALL SHEETS OUTSET FROM LOD FOR VISUAL PURPOSES ONLY.
4. EXISTING PAVEMENT REMOVAL ADJACENT TO ALL TREES ON ALL SHEETS SHALL BE REMOVED CAREFULLY USING HAND TOOLS OR MECHANIZED EQUIPMENT, AS DIRECTED BY LICENSED TREE EXPERT.

Digitally signed by Sari Hijazi
Date: 2025.07.16 23:51:53-04'00'

STATE OF MARYLAND — SARI HIJAZI — No. 50933 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 50933
EXPIRATION DATE: 12/16/2026

CPJ Associates — Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
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50% DESIGN SUBMISSION
JULY 2025

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED BY:	CG
DRAFTED BY:	JMN
CHECKED BY:	SH
SUBMITTED BY:	SH

DESIGN PLAN APPROVAL
PWK# _____ SCP# _____
SMP# _____ REVIEWED BY _____
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

AS BUILT PLAN APPROVAL
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

CARR AVENUE SIDEWALK PROJECT
EROSION AND SEDIMENT CONTROL DETAILS

CARR AVENUE
SIDEWALK PROJECT
ELECTION DISTRICT NO. 10
CITY OF ROCKVILLE, MARYLAND

DATE SUBMITTED: 07/18/2025

SCALE: AS SHOWN

SHEET NO. 11 OF 11

FILE # ES-04