COUNTY OF ROANOKE, VA

GENERAL NOTES

PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

1. All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County, the Western Virginia Water Authority, and the Virginia Department of Transportation.
2. Stormwater Management Agreements with an attached 8 1/2" x 11" or 8 1/2" x 14" plat must be approved and recorded prior to the pre-construction meeting.
3. Once all required items are submitted to Roanoke County, the developer must contact the Development Review Coordinator to indicate that a pre-construction meeting needs to be scheduled. The pre-construction meeting will be scheduled with the owner/developer two (2) working days later.
4. All land disturbing projects that require approval of an erosion and sediment control plan, grading or clearing permit shall require that the applicant provide the name of an individual who will be responsible for land disturbing activities and that this individual hold a Responsible Land Disturber (RLD) Certificate from the Department of Environmental Quality. The Responsible Land Disturber can be anyone from the Project team that is certified by the Commonwealth of Virginia to be in charge of carrying out the land disturbing activity for the project.
5. It is the responsibility of the owner/developer to notify the certified Responsible Land Disturber and the Utility Contractor to attend the pre-construction meeting.
6. The Development Review Coordinator will schedule the pre-construction meeting with the County Review Engineer, the County Inspector, and the Western Virginia Water Authority and the Town of Vinton Public Works Department if applicable.
7. An approved set of plans, Storm Water Pollution Prevention Plan (SWPPP), VSMP coverage letter, and all permits must be available at the construction site at all times.
8. The developer and/or contractor shall supply all utility companies with copies of approved plans, advising them that all grading and installation shall conform to approved plans.
9. The project engineer will inform the owner/developer verbally and in writing of the County's obligation to perform inspections on site. Everyone in the meeting will be required to sign a pre-construction checklist indicating their knowledge of Roanoke County's obligation to perform inspections on site.
10. The Erosion Control Permit or Combined Erosion Control & VSMP Permit is given to the developer at this pre-construction meeting.
11. Notify Roanoke County prior to beginning installation of ESC measures. The County will inspect initial installations to ensure compliance with approved plan prior to start of grading. The developer SHALL contact the project inspector 24 hours before beginning any grading or construction on the property.
12. County inspectors must inspect storm drain / stormwater management / BMP installations during the process of installation. Please contact the site inspector 24 hours in advance.
13. All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority and the Virginia Department of Transportation Inspectors.
14. Contractors shall notify utilities of proposed construction at least two (2), but not more than ten (10) working days in advance. Area public utilities may be notified thru "Miss Utility": 1-800-552-7001 or VA 811.
15. The 100 year Floodway shall be staked prior to any construction.
16. Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer at all times of construction.
17. Roanoke County shall be notified when a spring is encountered during construction.
18. Construction debris shall be containerized in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site.
19. The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets or rights of ways. It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition at all times.
20. Plan approval in no way relieves the developer or contractors of the responsibilities contained within the erosion and sediment control or stormwater management policies.
21. Field construction shall honor proposed drainage divides as shown on plans.
22. Field corrections shall be approved by the Roanoke County and/or the Western Virginia Water Authority and the Professional of Record, prior to such construction.
23. The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As-Built plans before final acceptance.

VIRGINIA DEPARTMENT OF TRANSPORTATION:

1. Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
2. A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
3. The preliminary pavement designs should be based on a predicted sub-grade CBR value of 7.0 and with a Resiliency Factor (RF) of 2.0 as shown in the current edition of the Virginia Department of Transportation Pavement Design Guide for Subdivision and Secondary Roads. The sub-grade soil is to be tested by an independent laboratory and the results submitted to the Virginia Department of Transportation prior to base construction. Should the sub-grade CBR value and/or the RF value be less than the predicted values, additional base material will be required in accordance with Departmental specifications. Refer to the same manual as the number and locations of the required soil samples to be tested. All pavement designs shall be submitted to the Department for review and approval. The sub-grade shall be approved by the Virginia Department of Transportation prior to placement of the base. Base shall be approved by the Virginia Department of Transportation for depth, template, and compaction before the surface is applied.
4. Standard guardrail with safety end sections may be required on fills or in areas where hazards exist as deemed necessary. After completion of rough grading operations, the County Engineer and Virginia Department of Transportation shall be contacted to schedule a field review. Where guard rail is warranted, the standard shoulder width shall be provided and the guard rail shall be installed in accordance with the current edition of the VDOT Road and Bridge Standards as part of this development.
5. Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
6. All traffic devices shall be in accordance with current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD).
7. All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

See Sheet __08__ for Stormwater Site Statistics Table.
See Sheet __05__ for New BMP Information Table.

The Project Engineer shall provide electronic copies of the approved plans to the Development Review Coordinator within 5 working days of the pre-construction meeting.
The notes on this sheet shall not be modified.

NAME OF DEVELOPMENT	ROANOKE,VA (7515 FRIENDSHIP) LLC COFFEE SHOP & DRIVE-THROUGH
MAGISTERIAL DISTRICT(S)	HOLLINS
OWNER	MARGARET KLAPPERICH 7515 FRIENDSHIP LANE ROANOKE,VA 24019
DEVELOPER	ROANOKE,VA (7515 FRIENDSHIP) LLC, AN ILLINOIS LIMITED LIABILITY COMPANY 1400 6TH STREET, SUITE 300 OAKBROOK, IL 60523 630-990-3203 CONTACT: SEAN GRAHAM
ENGINEER & SURVEYOR	PARKER DESIGN GROUP 2122 Carolina Ave, SW Roanoke, VA 24014 540-387-1133 CONTACT: JACK ELMWOOD, L.A.
TAX MAP NO(S)	027.06-05-06.00-0000 ZONE: C-2 USE: QUICK-SERVE COFFEE SHOP

SEAN R. GRAHAM
AFFIDAVIT OF MC SITE DESIGN REQUIREMENTS EXPOSED BY THIS SITE DEVELOPMENT PLAN, ALL REVISIONS THEREOF, AND OTHER APPLICABLE ROANOKE COUNTY CODES AND ORDINANCES.

I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS SHOWN ON THIS COVER SHEET UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

WATER AND SEWER NOTES

1. All construction methods and materials shall conform to the latest edition of the Design and Construction Standards and Specifications of the Western Virginia Water Authority (WVWA) available at www.westernvwater.org or by contacting the authority at 540-853-5700. The project shall also comply with the governing jurisdiction's standards and other agency standards (e.g. VDOT, DEQ, DCR, VDH, etc.) where applicable.
2. A minimum cover of three (3) feet is required on all WVWA water and sewer lines.
3. All existing utilities may not be shown in their exact locations. The contractor shall notify Miss Utility and shall verify location and elevation of all underground utilities in the areas of construction prior to starting work.
4. Please show all WVWA water and sewer utilities on any development plan.
5. The location of existing utilities across or along the line of proposed work are not necessarily shown on the plans and where shown are only approximately correct. The contractor shall on his own initiative and at no extra cost, locate all underground lines and structures and pothole as necessary. The contractor shall be responsible for any damage to underground structures. All damage incurred to existing utilities during construction shall be repaired at the contractor's expense.
6. Plan approval by the WVWA does not remove the contractor's responsibility to remove or relocate any existing conflicts found during construction.
7. The contractor shall maintain a minimum of 18" clearance vertically and two (2) feet minimum horizontally from the outside of pipe to outside of pipe with all other underground utilities. Where this cannot be achieved, additional measures in accordance with the WVWA standards shall be enforced.
8. All utility grade adjustments shall be in accordance with WVWA standards and are the responsibility of the contractor.
9. Field changes shall be submitted by the engineer of record to the locality and approved by the WVWA.

Western Virginia Water Authority
Availability letter number: _____

PRIVATE UTILITIES

Underground utilities installed on private property or in private utility easements and building related storm drains shall be designed and installed per the current edition of the Virginia Uniform Statewide Building Code (including amendments). Design and installation requirements issued by the Western Virginia Water Authority that meet or exceed the USBC requirements are acceptable for private utilities. All private utilities are to be permitted through and inspected by the Roanoke County Inspections Office. Vaults, valves and other devices installed by or under the control of the Western Virginia Water Authority may not substituted for the code required devices.

PR #:	NOTES:

Revision Table

Vicinity Map

LEGEND

Property Line
Right-of-way (R/W)
Centerline (CL)
Minimum Building Line (MBL)
Existing Storm Sewer (SS)
Existing Sanitary Sewer (S)
Existing Water Main (W)
Existing Contour (1045)
Proposed Contour (1045)
Proposed Drainage Divide
Proposed Limits of Clearing
Proposed Storm Sewer (24" S.D.)
Proposed Sanitary Sewer (8" S.S.)
Proposed Water Main (8" W.M.)
HYDRANT, VALVE, BLOWOFF

Sheet List Table

Sheet Number	Sheet Title
C01	COVER SHEET
C02	GENERAL NOTES
C03	EXISTING CONDITIONS, DEMOLITION, & PHASE I ESC PLAN
C04	LAYOUT & DIMENSIONAL PLAN
C05	GRADING & PHASE II ESC PLAN
C06	UTILITY PLAN
C07	UTILITY PROFILES
C08	BMP NARRATIVE
C09	BMP DETAILS
C10	SITE DETAILS
C11	UTILITY DETAILS
C12	STORM DETAILS
C13	STORM DETAILS
C14	WALL DETAILS (BY OTHERS)
C15	WALL DETAILS (BY OTHERS)
L01	LANDSCAPING PLAN
L02	LANDSCAPING DETAILS
L03	PHOTOMETRIC PLAN (REDUCED COPY)
L04	IRRIGATION PLAN
T01	PROFILE VIEWS & ENTRANCE PROFILES
T02	TRUCK TURNS
T03	TRAFFIC MANAGMENT PLAN

Sheet Index

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: 2022

for PARKER DESIGN GROUP, INC.

All vertical elevations must be referenced to the National Geodetic Vertical Datum of 1929 or 1988.
All horizontal elevations must be referenced to the North American Datum of 1927 or 1983.

Horizontal Datum: NAD 1983 Vertical Datum: NAVD 1988

Source of topographic mapping is dated JULY 20, 2022

Boundary was performed by PARKER DESIGN GROUP, INC. dated: JUNE 2022

Benchmark information: ELEVATIONS FROM GPS OBTAIN BASED (NAVD88)
BENCHMARK: TOP OF IRON PIN FOUND, ELEV. = 1998.19 (NAVD88) - NEAR NORTH EAST PROPERTY CORNER

The professional seal and signature certifies the boundary survey and topographic mapping to be accurate and correct.

QUANTITY & COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING	0.44	AC	$ 1,000.00	$ 880.00	
EXCAVATION	1363	C.Y.	$ 6.00	$ 8,178.00	
EMBANKMENT	1913	C.Y.	$ 12.00	$ 22,956.00	
CURB INLET DI-3	2	EA	$ 2,000.00	$ 4,000.00	
CURB INLET DI-1	1	EA	$ 2,000.00	$ 2,000.00	
WVWA STD. S-1 MANHOLE		EA			
MANHOLE MH-		EA			
-IN. CONCRETE PIPE, CLASS III		LF			
-IN. CONCRETE PIPE, CLASS IV		LF			
12" HDPE	4	LF	$ 20.00	$ 80.00	
12" HDPE	176	LF	$ 25.00	$ 4,400.00	
24" HDPE	14	LF	$49.00	$ 686.00	
ROOF DRAIN SYSTEM	1	LS	$ 2,500.00	$ 2,500.00	
-IN. C.M. CULVERT		LF			
-IN. C.M. CULVERT		LF			
BOX CULVERT		LS			
PAVED SWALE		LF			
RIPRAP - CLASS		SF			
PERMANENT GRASS SWALE		LF			
-IN. CONCRETE ENDWALL EW-		EA			
15-IN. END SECTION HDPE	1	EA	$ 300.00	$ 300.00	
HEADER CURB & GUTTER CG-		LF			
CURB & GUTTER CG-6	189	LF	$ 25.00	$ 3,825.00	
VALLEY GUTTER		EA			
GRAVEL BASE		SY			
GRAVEL SHOULDER		SY			
SURFACE TREATMENT		SY			
2.5-IN. BIT. CONC., TYPE SM-2B	1,151	SY	$ 14.00	$ 16,114.00	
2.0-IN. BIT. CONC., TYPE SM-12.5A	488	SY	$ 18.00	$ 8,784.00	
3-IN. BASE MATERIAL (AV.)	365	C.Y.	$ 6.00	$ 2,190.00	
-IN. SUBBASE MATERIAL		C.Y.			
TRAFFIC BARRICADE		EA			
1.0" WATER LINE (SERVICE)	180	LF	$ 10.00	$ 1,800.00	
8" WATER LINE		LF			
FIRE HYDRANT ASSEMBLIES		EA			
BLOW OFFS W/ VAULT, FRAME & COVER		EA			
-IN. GATE VALVE(S), W/ VAULT, FRAME & COVER		EA			
-IN. GATE VALVE(S), W/ VAULT, FRAME & COVER		EA			
6" SANITARY SEWER	24	LF	$ 20.00	$ 480.00	
4" SANITARY SEWER	189	LF	$ 15.00	$ 2,835.00	
1.25" SANITARY SEWER	79	LF	$ 10.00	$ 790.00	
STANDARD MANHOLE W/FRAME & COVER	5	EA	$ 1,500.00	$ 7,500.00	
SAMPLING MANHOLE/POST		EA			
LANDSCAPING	1	LS	$ 5,000.00	$ 5,000.00	
RETAINING WALL	800	SF	$ 30.00	$ 27,000.00	
AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC...)	1	LS	$ 7,500.00	$ 7,500.00	
STORMWATER MANAGEMENT	1	LS	$ 35,000.00	$ 35,000.00	
AS-BUILT PLANS (STORM SEWER SYSTEMS)	1	LS	$ 1,200.00	$ 1,200.00	
AS-BUILT PLANS (STORMWATER MANAGEMENT)	1	LS	$ 1,500.00	$ 1,500.00	
SUBTOTAL				$ 187,182.00	
15% CONTINGENCY				$ 18,718.00	
ESTIMATED TOTAL				$ 183,000.00	

BY SEALING THE PLANS, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE FORESGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.

COMMONWEALTH OF VIRGINIA
JACK D. ELMWOOD
Lic. No. 001107
03/17/2023
LANDSCAPE ARCHITECT

Luke Lambert
304-960-1251

parker DESIGN GROUP
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APPROVED

Inspector: Bruce Peter
Contractor: Lambert Construction

Inspector Red Line Redbuilts
1-12-2024

COMMONWEALTH OF VIRGINIA
PLAN APPROVED
Derrick Lewis
PROJECT ENGINEER, VDOT

REVISIONS
1ST REVIEW COMMENTS
01/27/2023 - RESUBMITTAL
2ND REVIEW COMMENTS
02/24/2023 - RESUBMITTAL
3RD REVIEW COMMENTS
03/17/2023 - RESUBMITTAL

DESIGNED BY: JDE / JMD
DRAWN BY: JMD
CHECKED BY: JDE
SCALE: N/A
DATE: 11/21/2022
PROJECT NUMBER: 22-0172
SHEET TITLE: C01

7515 FRIENDSHIP LANE
PROPOSED COFFEE SHOP
& DRIVE-THROUGH
027.06-05-06.00-0000
ROANOKE COUNTY, VIRGINIA

SHEET 01 OF 22