GENERAL NOTES

PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT

- 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.
- 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.
- Once all required items are submitted to the County of Roanoke, 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.
- 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. 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.

- 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.
- 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.
- 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.
- 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.
- Notify the County of Roanoke 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. The Department of Community Development shall be notified when a spring is encountered
- 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 Engineering Division 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.

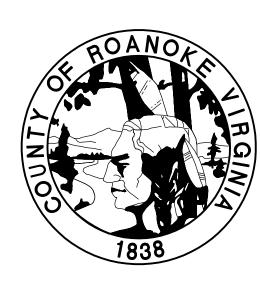
VIRGINIA DEPARTMENT OF TRANSPORTATION:

- 24. Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
- 25. A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
- 26. 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 Appendix I of the 2000 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
- 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 2001 VDOT Road and Bridge Standards as part of this development.
- 28. Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
- 29. All traffic devices shall be in accordance with current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD).
- 30. All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

See Sheet <u>C5.2</u> for Stormwater Site Statistics Table. See Sheet <u>C5.2</u> 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.



COUNTY OF ROANOKE, VA

COST ESTIMATE COMPLETED) ST QUANTITY & COST ESTIMATE

CLEARING AND GRUBBING

EXCAVATION (IMPORT)

EMBANKMENT

GRATE INLET DI-1

GRATE INLET DI-7

CURB INLET DI-3,

CONC. STORM MANHOLE

12 -IN. C.M. PIPE (STORM)

12 -IN. DBL. WALL HDPE PIPE (STORM)

15 -IN. DBL. WALL HDPE PIPE (STORM)

18 -IN. DBL. WALL HDPE PIPE (STORM)

24 -IN. DBL. WALL HDPE PIPE (STORM)

42 -IN. CLASS III CONCRETE PIPE (STORM)

60 -IN. CLASS III CONCRETE PIPE (STORM)

18 -IN. DUCTILE IRON PIPE (STORM)

12 -IN. ES-2 FLARED END SECTION

15 -IN. HDPE FLARED END SECTION

24 -IN. HDPE FLARED END SECTION

42 -IN. CONCRETE ENDWALL EW-2

BOX CULVERT

DBL. 60 -IN. CONCRETE ENDWALL EW-7

12' WIDE CL. III RIP-RAP CHANNEL CP

PERMANENT GRASS SWALE

CONCRETE SIDEWALK (PUBLIC)

CONCRETE CURBING CG-2

2 -IN. BIT. CONC.: TYPE BM25.0

2 -IN. BIT. CONC.: TYPE SM9.5A

1 -IN. BIT. CONC.: TYPE SM9.5A

8 -IN. BASE MATERIAL, TYPE 21B

WATERLINE SPECIALTY VALVE (PIV, SIAMESE FDC)

FIRE HYDRANT ASSEMBLIES (w/ VALVE & BOX)

4 -IN. GATE VALVES. W/VAULT. FRAME & COVER

6 -IN. GATE VALVES, W/VAULT, FRAME & COVER

8 -IN. GATE VALVES, W/VAULT, FRAME & COVER

8" SDR-35 PVC SANITARY SEWER

SAMPLING MANHOLE / PORT

GREASE INTERCEPTOR

LANDSCAPING

SUBTOTAL

10% CONTINGENCY

ESTIMATED TOTAL

8" DUCTILE IRON SANITARY SEWER

STANDARD MANHOLE W/FRAME & COVER

AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC...)

STORMWATER MANAGEMENT FACILITY (COMPLETE)

AS-BUILT PLANS (STORM SEWER SYSTEMS)

AS-BUILT PLANS (STORMWATER MANAGEMENT)

AIR RELEASE VALVES W/VAULT, FRAME & COVER

VALLEY GUTTER

TRAFFIC CONTROL

2-1/2" WATER LINE

4" WATER LINE

6" WATER LINE

8" WATER LINE

GRAVEL BASE

CONCRETE ENTRANCE APRON CG-9D

CONCRETE CURB & GUTTER CG-6

EXCAVATION (ON-SITE CUT & FILL)

ITEM

NAME OF DEVELOPMENT	SITE PLANS F RICHFIELD LIVE	OR CAMPUS REDEVELO	OPMENT	I, OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE ROANOKE COUNTY AND TOWN			
MAGISTERIAL DISTRICT(S)	CATAWBA			OF VINTON CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THE REQUIREMENTS AND THE THIRTY (30) POINTS SHOWN ON THIS COVER SHE UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.			
OWNER (name, address, telephone)	RICHFIELD LIVING 3615 WEST MAIN STREET SALEM, VA 24153 CONTACT: MS. CHERIE GRISSO, TEL: (540) 380-6597						
DEVELOPER (name, address, telephone	e) (SAME AS OWNER)						
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) CALDWELL WHITE AS PO BOX 6260 ROANOKE, VA 24017			TEL.: (540)	BIN L. WHITE, PE) 366–3400 Aroanoke@aol.com			
TAX MAP NO(S)	-15.00-0000						

WATER NOTES

All water facilities shall be constructed according to the Western Virginia Regional Design and Construction Standards (Latest Edition).

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering valve vaults after paving and adjustment to final grade if necessary.

All existing utilities may not be shown in their exact location. The contractor shall comply with the (State Water Works Regulations, Section 12VAC5-590-1150, where lines cross.

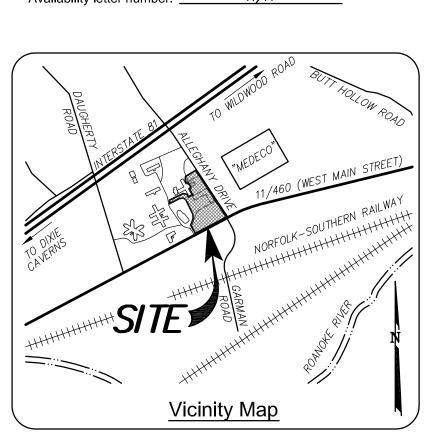
All trenches in existing or future highway right-of-ways shall be compacted according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

Water main shall be minimum Class 350 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Ductile Iron Pipe in accordance with the Western Virginia Regional Design and Construction Standards shall be required for all pipe with a working pressure equal to or greater than 100 p.s.i.

Western Virginia Water Authority



LEGEND

LEGEND					
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ght-of-way			<u>R/W</u>		
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oposed Storm Sewer			24" S.D.		
oposed Sanitary Sewer			8" M.H.		
oposed Water Main	HYDRAN	- '±'	VE	BLOWOFF/	

All sanitary sewer facilities shall be installed according to the Western Virginia Regional Design and Construction Standards. (Latest Edition).

Manhole tops shall be adjusted to grade if necessary.

All trenches in existing or future rights-of-way shall be compacted according to Virginia

Lines shall be staked prior to construction.

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. 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

CO.1	ROANOKE COUNTY STANDARD COVER SHEET
CO.2	NOTES AND LEGEND
C1.1	PHASE 1 — EXISTING CONDITIONS & SITE DEMOLITION PLAN — NORTH
C1.2	PHASE 1 — EXISTING CONDITIONS & SITE DEMOLITION PLAN — SOUTH
C2.1	PHASE 1 — DIMENSIONAL LAYOUT PLAN — NORTH
C2.2	PHASE 1 — DIMENSIONAL LAYOUT PLAN — SOUTH
C3.1	PHASE 1 — CODE REQUIRED LANDSCAPING PLAN — NORTH
C3.2	PHASE 1 — CODE REQUIRED LANDSCAPING PLAN — SOUTH
C4.1	PHASE 1 — SOIL EROSION & SEDIMENTATION CONTROL PLAN — NORTH
C4.2	PHASE 1 — SOIL EROSION & SEDIMENTATION CONTROL PLAN — SOUTH
C5.1	PHASE 1 — GRADING & STORM DRAINAGE PLAN — NORTH
C5.2	PHASE 1 — GRADING & STORM DRAINAGE PLAN — SOUTH
C6.1	PHASE 1 — SITE UTILITIES PLAN — NORTH
C6.2	PHASE 1 — SITE UTILITIES PLAN — SOUTH
C7.1	PHASE 1 - PROFILES - NEW STORM DRAIN
C7.2	PHASE 1 - PROFILES - NEW STORM DRAIN
C7.3	PHASE 1 - PROFILES - NEW STORM DRAIN
C7.4	PHASE 1 - PROFILES - NEW SANITARY SEWER
C8.1	PHASE 2 — EXISTING CONDITIONS & SITE DEMOLITION PLAN
C9.1	PHASE 2 — DIMENSIONAL LAYOUT PLAN
C10.1	PHASE 2 — CODE REQUIRED LANDSCAPING PLAN
C11.1	PHASE 2 — SOIL EROSION & SEDIMENTATION CONTROL PLAN
C12.1	PHASE 2 — GRADING & STORM DRAINAGE PLAN
C13.1	PHASE 2 - SITE UTILITIES PLAN
C14.1	PHASE 2 - PROFILES - NEW STORM DRAIN
-C14.2	PHASE 2 - PROFILES - NEW SANITARY SEWER (SHEET DELETED) \(\frac{1}{2}\)
C15.1	DETAILS - SITE CONSTRUCTION
C15.2	EROSION CONTROL NARRATIVE, MEASURES & CONSTRUCTION SEQUENCING
C15.3	DETAILS — SOIL EROSION & SEDIMENTATION CONTROL
C15.4	DETAILS — TEMPORARY SEDIMENT BASIN AND PERMANENT STORMWATER MANAGEMENT
C15.5	DETAILS - WATER AND SANITARY SEWER
C15.6	DETAILS - WATER AND SANITARY SEWER
C16.1	TRAFFIC MANAGEMENT PLAN SHEET ADDED \(\sigma \subseteq \sigma \)
	Sheet Index

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Boundary was performed by _____ dated:

DIRECTLY OPPOSITE EXISTING RRCC ENTRANCE. ELEVATION = 1122.36

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

SEWER NOTES

A minimum cover of three (3) feet is required over proposed lines. Contractor shall be responsible for locating and uncovering all manholes after paving.

All existing utilities may not be shown in their exact location. The contractor shall comply with (State Water Works Regulations, Section 12VAC5-590-1150, where lines cross.)

Department of Transportation standards.

required devices.

CU.Z	NOTES AND LEGEND
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C1.2	PHASE 1 - EXISTING CONDITIONS & SITE DEMOLITION PLAN - SOUTH
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C15.5	DETAILS - WATER AND SANITARY SEWER
C15.6	DETAILS - WATER AND SANITARY SEWER
C16.1	TRAFFIC MANAGEMENT PLAN SHEET ADDED (S1)
	Shoot Indov

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year:
By: FIELD-RUN SURVEY BY CALDWELL WHITE ASSOCIATES
All vertical elevations must be referenced to the National Geodetic Vertical Datum of 1929 or

Horizontal Datum: LOCAL COORD. SYSTEM Vertical Datum: NAVD 1988 Source of topographic mapping is dated 2011 AERIAL MAPPING - FIELD ANNOTATED BY CWA 2018

Benchmark Information: GPS DISK LOCATED ON THE EASTERN SIDE OF ALLEGHANY DRIVE,

UNIT PRICE COST

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(TO REFLECT SITE REVISIONS

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

/2\| \ 35

9.050

10/15/2018	1ST SITE SUBMITTA
11/09/2018	PERMIT SE
<u>/s1\</u> 12/19/2018	PER 1ST SITE REVIE
12/19/2018	CONSTRUCTION SE
<u>\$2</u> 01/24/2019	PER 2ND SITE REVIE
2 04/02/2019	ADDENDUM

Revision / Issue:



RICI

Drawn: C.L. White Date: October 15, 2018 Field Book: Richfield W.O. No.: <u>18-0044 / 0045</u>

Designed: C.L. White

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SHEET C_{0.1} OF