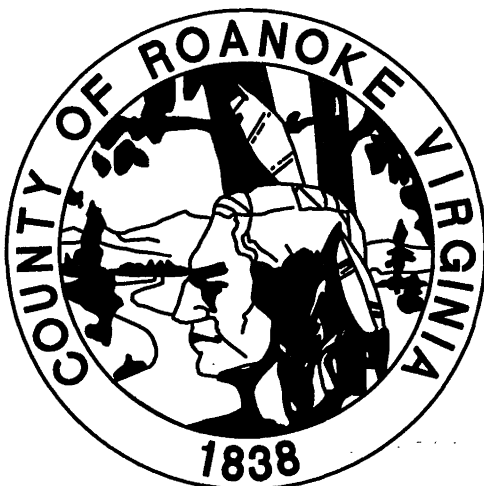


PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

- VIRGINIA DEPARTMENT OF TRANSPORTATION:

- 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.
- This sheet may not be modified.



County of Roanoke, VA

NOTE: THIS COST ESTIMATE IS PROVIDED FOR BONDING PURPOSES ONLY. VERIFICATION OF ALL QUANTITIES AND PRICES SHALL FOR BIDDING PURPOSES SHALL BE THE RESPONSIBILITY OF THE BIDDER.

QUANTITY & COST ESTIMATE					
ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
STORMWATER MANAGEMENT POND	1	EA	\$ 2,500.00		\$ 2,500.00
MANHOLE MH-2 SERIES W/TRASH RACK	1	EACH	\$ 1,200		\$ 1,200.00
15-IN. RCP FROM POND	44	LIN. FT.	30.00		\$ 1,320.00
15-IN. RCP END SECTION	1	EACH	400.00		\$ 400.00
		LIN. FT.	\$		\$
YARD SWALE	190	LIN. FT.	\$ 3.50		\$ 665.00
8-IN. PVC WATERLINE	485	LIN. FT.	\$ 18.00		\$ 8,730.00
AIR RELEASE VALVE		EACH	\$		\$
FIRE HYDRANT ASSEMBLY	1	EACH	\$ 1,000.00		\$ 1,000.00
BLOW OFF ASSEMBLY		EACH	\$		\$
8-IN. GATE VALVE, W/ VAULT, FRAME & COVER		EACH	\$		\$
8-IN. GATE VALVE, W/ VAULT, FRAME & COVER	1	EACH	\$ 1,000.00		\$ 1,000.00
DOUBLE WATER METTER SETTERS	3	EACH	\$ 500.00		\$ 1,500.00
		EACH	\$		\$
MAJOR FITTINGS		EACH	\$		\$
8-IN. SDR-35 SANITARY SEWERLINE	378	LIN. FT.	\$ 15.00		\$ 5,670.00
4-IN. RESIDENTIAL LATERALS	2	EACH	\$ 400.00		\$ 800.00
6-IN. RESIDENTIAL DOUBLE LATERALS	2	EACH	600.00		1,200.00
STANDARD MANHOLE W/ FRAME & BOLT DOWN COVER	3	EACH	\$ 1,200.00		\$ 3,600.00
AS-BUILT PLANS (STORMWATER MANAGEMENT)	1	LUMP SUM	\$ 700.00		\$ 700.00
SUB-TOTAL					\$ 30,285.00
10% CONTINGENCY					\$ 3,028.00
ESTIMATED TOTAL					\$ 33,313.00
I HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.					
SIGNED:		DATE:			

All water facilities shall be installed according to the Western Virginia Water Authority 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 12.05.03, where lines cross.

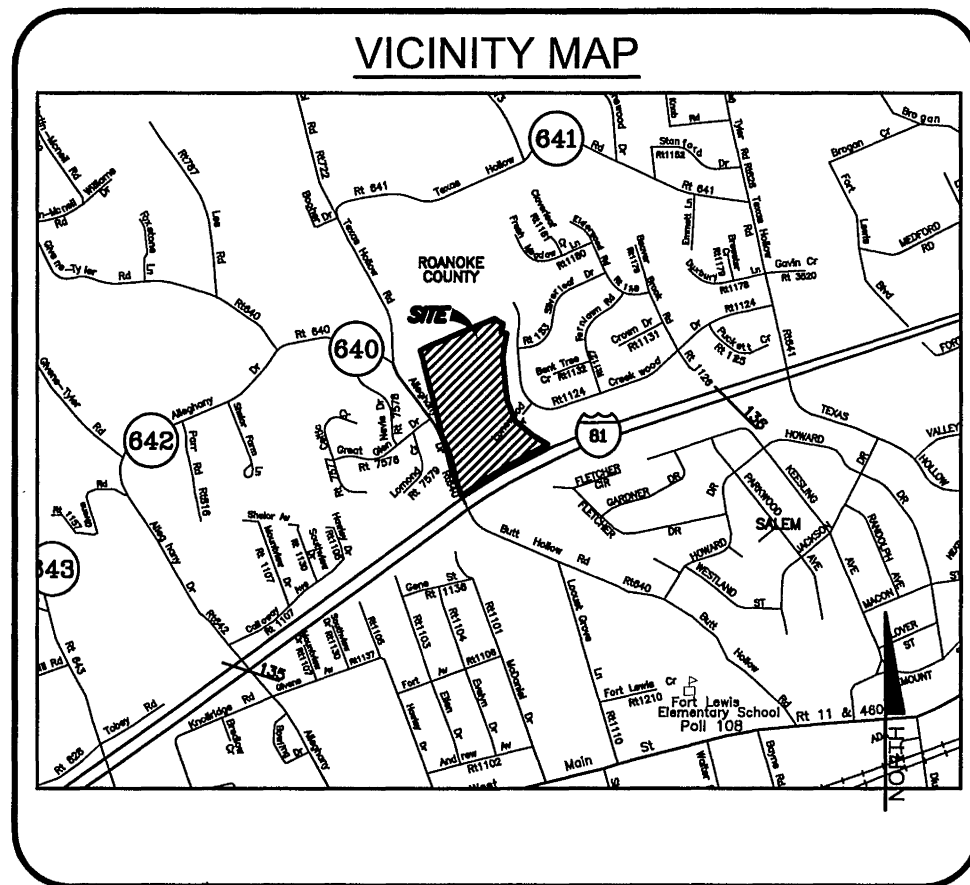
All trenches in existing or future highway right-of-ways shall be compacted according to Virginia Department of Transportation standards

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 Water Authority 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
Availability letter number: _____ 07-247



Property Line	_____
Right-of-way	=====
Centerline	_____
Minimum Building Line	_____ MBL
Existing Storm Sewer	=====
Existing Sanitary Sewer	_____ 8" SS _____ (S)
Existing Water Main	_____ 8" W _____
Existing Contour	_____ 1155 _____
Proposed Contour	_____ (1155) _____
Proposed Drainage Divide	_____
Proposed Limits of Clearing	_____
Proposed Storm Sewer	_____ Flow Direction _____
Proposed Sanitary Sewer	_____ 8" SS _____ (S)
Proposed Water Main	_____ 8" W _____

All sanitary sewer facilities shall be installed according to the Western Virginia Water Authority 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 all manholes after paving. Manhole tops shall be adjusted to grade if necessary.

All existing utilities may not be shown in their exact location. The contractor shall comply with (State Water Works Regulations, Section 12.05.03, where lines cross.)

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

Lines shall be staked prior to construction.

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 paved 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.

C-01	COVER SHEET
C-02	NOTES
C-03	EXIST. CONDITIONS & DEMO PLAN
C-04	DIMENSIONAL PLAN
C-05	GRADING PLAN
C-06	GRADING PLAN - BORROW AREA
C-07	ESC PLAN
C-08	ESC PLAN - BORROW AREA
C-09	ESC NOTES
C-10	ESC NOTES 2
C-11	WESTERN VA REGIONAL DETAILS
C-12	WESTERN VA REGIONAL DETAILS
C-13	FLOOD STUDY - PRE-DEVELOPMENT
C-14	FLOOD STUDY - POST-DEVELOPMENT

Horizontal and vertical control surveys were performed in year: 2007
By: BALZER AND ASSOCIATES, INC.

Vertical elevations are referenced to the National Geodetic Vertical Datum of 1988.
Horizontal distances are referenced to the North American Datum of 1983.

Source of topographic mapping is: ROANOKE COUNTY GIS dated: 1992
SUPPLEMENT TOPOGRAPHY BY BALZER AND ASSOCIATES, MAY 2007

Boundary was performed by: BALZER AND ASSOCIATES, INC. dated: 2007

Benchmark Information: SEE SHEET C-3 - EX. S.S. MANHOLE

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



REFLECTING TOMORROW
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 PLANNERS • ARCHITECTS
 ENGINEERS • SURVEYORS

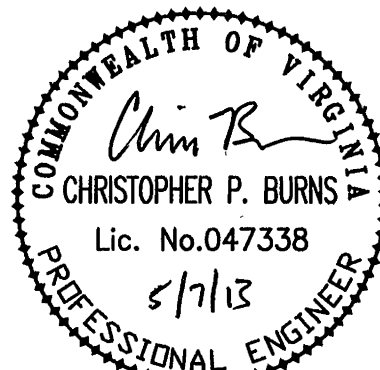
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Phone: 540/381-4290
FAX: 540/381-4291

1561 Commerce Road
Suite 401
Verona, Virginia 24482
Phone: 540/248-3220
FAX: 540/248-3221

DRAWN BY: BTC
DESIGNED BY: BTC
CHECKED BY: SMH
DATE: 04/5/2013
REVISIONS: 05/7/2013



APPROVED



DEVELOPMENT PLAN APPROVED FOR CONSTRUCTION BY ROANOKE COUNTY		
Department	Date	
Development Review	5/29/13	
Engineering	5/29/13	
Water & Sewer	7/18/13	
Planning & Zoning	5-29-13	

**HOLLOW CREEK
SUBDIVISION**
ALLEGHANY DRIVE
County of Roanoke, Virginia

SHEET No.:

C-01

JOB No.: R0700180.02

K. Winslow