# **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 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.
- 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
- 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.

required to sign a pre-construction checklist indicating their knowledge of Roanoke

- 11. 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
- 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 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
- 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
- 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 applied.
- 27. 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 N/A for Stormwater Site Statistics Table. See Sheet <u>C8</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

The notes on this sheet shall not be modified.



# COUNTY OF ROANOKE, VA

NAME OF DEVELOPMENT KROGER FUEL CENTER R-375	I, OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE ROANOKE COUNTY CODES.	
MAGISTERIAL DISTRICT(S) WINDSOR HILLS	I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS AND THE THIRTY (30) POINTS SHOWN ON THIS COVER SHEET UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.	
F&D LAND COMPANY C/O BOOM FOODS LLC 3750 CORPORATE WOODS DRIVE VESTAVIA HILLS, AL 35242		
THE KROGER CO. — MID-ATLANTIC DIVISION  3631 PETERS CREEK ROAD  ROANOKE, VA 24019 ATTN: JOE SARDELLO 540-5	63–3520	
BALZER AND ASSOCIATES, INC.  ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)  BALZER AND ASSOCIATES, INC.  1208 CORPORATE CIRCLE  ROANOKE, VA 24018 ATTN: BENJAM	IIN T. CREW 540-772-9580 FAX 540-772-8050	

#### 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

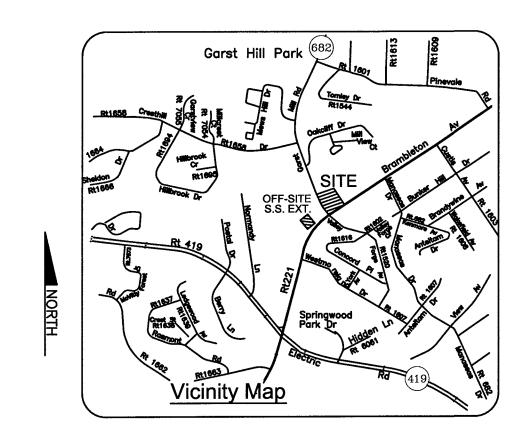
Lines shall be staked prior to construction.

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	
Availability letter number:	14-179

To Be Removed



	LEGEND
Property Line	
Right-of-way	
Centerline	
Minimum Building Line	— — — MBL — — —
Existing Storm Sewer	48"RCP 48"RCP
Existing Sanitary Sewer	······································
Existing Water Main	8" WL
Existing Contour	— — — — — — — — — — — — — — — — — — —
Proposed Contour	155
Proposed Drainage Divide	
Proposed Limits of Clearing	
Proposed Storm Sewer	
Proposed Sanitary Sewer	8* SS
Proposed Water Main	

### **SEWER NOTES**

All sanitary sewer facilities shall be installed 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 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 12VAC5-590-1150, 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.

#### **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 required devices.

C1	COVER SHEET
C2	EXISTING CONDITIONS & DEMO. PLAN
С3	LAYOUT & UTILITY PLAN
C4	EASEMENT, CONDUIT & OFF-SITE S.S. PI
C5	GRADING PLAN
C6	ESC PLAN PHASE I
C7	ESC PLAN PHASE II
C8	ESC NOTES & DETAILS
C9	PROFILES & INTERSECTION SIGHT DISTAN
C10	LANDSCAPE PLAN
C11	DETAILS I
C12	DETAILS II
C13	GENERAL NOTES
C14	WESTERN VIRGINIA REGIONAL DETAILS
C15	RETAINING WALL DETAILS
C16	TRAFFIC CONTROL PLAN
C17	TRAFFIC CONTROL DETAILS
C18	IRRIGATION PLAN
11.0	SITE LIGHTING PLAN

## Sheet Index

L1.1 SITE LIGHTING DETAILS

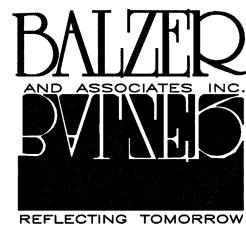
#### SURVEY INFORMATION

By:	cal control surveys we BALZER & ASSOCIA	ere performed in year: ATES, INC. (B & A INC.)	2014
		to the National Geodetic Ve	rtical Datum of 1929 or 1988 atum of 1927 or 1983.
Horizontal Datum:	1983	Vertical Datum:	1988
Source of topograph	ic mapping is dated_	D O A INO	
Boundary was perfo	rmed by B&AI	NC. dated:	2014
		R IRON PIN = ELEV. 1089	.9

#### COST ITEM QUANTITY UNIT UNIT PRICE BONDABLE CLEARING AND GRUBBING EXCAVATION C.Y. **EMBANKMENT** C.Y. CURB INLET DI-2B \$1,500 CURB INLET DI-3B 2 EA \$1,500 \$3,000 CURB INLET DI-3C \$1,500 \$1,500 EA MANHOLE MH-2 \$1,000 EA \$1,000 INLET FILTER BAGS \$1,500 3 EA \$500 15-IN. CONCRETE PIPE, CLASS III RCP \$25 \$625 25 LF 12-IN. CMP LF \$25 \$150 6 15-IN, TYPE S PIPE 138 \$4,140 12-IN. TYPE S PIPE LF \$25 \$3,700 TRENCH DRAIN \$3,100 62 LF ROOFLEADER SYSTEM \$2,500 1 LS \$2,500 BOX CULVERT LS PAVED SWALE LF RIPRAP - CLASS PERMANENT GRASS SWALE LF -IN. CONCRETE ENDWALL EW-EA -IN. END SECTION ES-EADER CURB & GUTTER CG-\$9,056 CURB & GUTTER CG-6 LF VALLEY GUTTER EA **GRAVEL BASE** GRAVEL SHOULDER SY SURFACE TREATMENT -IN. BIT. CONC.: TYPE B--IN. BIT. CONC.: TYPE S--IN. BASE MATERIAL C.Y. -IN. SUBBASE MATERIAL C.Y. TRAFFIC BARRICADE EA 8" WATER LINE LF 6" WATER LINE LF FIRE HYDRANT ASSEMBLIES EA BLOW OFFS W/ VAULT, FRAME & COVER EA -IN. GATE VALVES, W/ VAULT, FRAME & COVER -IN. GATE VALVES, W/ VAULT, FRAME & COVER EΑ -COMMERCIAL WATER METER AND LATERAL RELOCATIONS EA \$500 \$500 8" SANITARY SEWER - (OFF-SITE) 57 LF \$30 \$1,710 STANDARD MANHOLE W/FRAME & COVER 6" COMMERCIAL LATERAL AND CLEANOUTS \$2,500 \$1,500 EA LANDSCAPING LS \$3505 1 \$3505 AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC ...) LS STORMWATER MANAGEMENT LS AS-BUILT PLANS (STORM SEWER SYSTEMS) \$1,000 \$1,000 AS-BUILT PLANS (STORMWATER MANAGEMENT) LS SUB-TOTAL \$39,986 10% CONTINGENCY \$3,999 ESTIMATED TOTAL \$43,985

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

QUANTITY & COST ESTIMATE



www.balzer.cc PLANNERS • ARCHITECTS ENGINEERS • SURVEYORS

1208 Corporate Circle Roanoke, Virginia 24018 Phone: 540/772-9580 FAX: 540/772-8050

15871 City View Drive Midlothian, Virginia 23113 Phone: 804/794-0571 FAX: 804/794-2635

448 Peppers Ferry Road Christiansburg, Virginia 24073 Phone: 540/381-4290 FAX: 540/381-4291

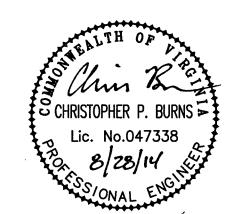
1561 Commerce Road Verona, Virginia 24482 Phone: 540/248-3220 FAX: 540/248-3221

DRAWN BY:

**DESIGNED BY:** 

CHECKED BY:

**REVISIONS:** 



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7/21/2014

8/8/2014

8/12/2014

8/28/2014

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\* CHARLES CRUSH As- BuiLTS 12-19-2014

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JOB No.: R1100049.01