QUANTITY + COST ESTIMATE

GENERAL NOTES

All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County, Western Virginia Water Authority, and/or the Virginia Department of Transportation.

The contractor or developer is required to notify the Roanoke County Engineering Division and Western Virginia Water Authority in writing at least three (3) days prior to any construction, including, but not limited to the following:

- A. Installation of approved erosion control devices
- B. Clearing and grubbing
- C. Subgrade excavation D. Installing storm sewers or culverts
- E. Setting curb and gutter forms F. Placing curb and gutter
- G. Placing other concrete
- H. Placing gravel base I. Placing any roadway surface
- J. Installing water lines K. Installing sanitary sewer lines

A pre-construction conference should be scheduled with the Roanoke County Engineering Division and Western Virginia Water Authority, to be held at least one (1) day prior to any construction.

Measures to control erosion and siltation must be provided prior to plan approval. Plan approval in no way relieves the developer or contractor of the responsibilities contained within the erosion and siltation control

A permit must be obtained from the V.D.O.T. Residency Office, Roanoke County, prior to construction in the highway right-of-way.

Plan approval does not guarantee issuance of any permits by V.D.O.T.

An approved set of plans and all permits must be available at the construction site.

Field construction shall honor proposed drainage divides as shown on plans.

All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

Pavement sections on approved plans are based on a minimum CBR of 10. CBR tests are to be performed by the engineer and submitted to V.D.O.T. and to the Roanoke County Engineering Division prior to placement. CBR values < 10 will require revised pavement sections.

All roadside ditches or grades of more than 5 percent shall be paved with cement concrete to the limits as indicated on the plans and as required at the field inspection.

Location of guard rails shall be determined at a joint field inspection by the County and V.D.O.T.

All springs shall be capped and piped to the nearest storm sewer or natural watercourse. The pipe shall be 6 inch minimum diameter and conform to V.D.O.T. Standard SB-1.

Standard street and traffic control signs shall be erected at each intersection by the developer prior to final

Construction debris shall be containerized in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site.

The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets. It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition 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.

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. The developer or contractor shall supply the County and Western Virginia Water Authority with correct

All work shall be subject to inspection by Roanoke County, Western Virginia Water Authority and/or V.D.O.T.

Field corrections shall be approved by the Roanoke County Engineering Division and Western Virginia Water Authorityprior to such construction.

100 year floodway and floodplain information shall be shown where applicable.

Grade stakes shall be set for all curb and gutter, culverts, sanitary sewer and storm sewer.

As-Built plans before final acceptance.

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. Manhole tops shall be adjusted to grade

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

House connections are to be made with 4" pipe installed at a minimum grade of 1/4 inch to 1 foot in R/W.

Laterals from manholes shall be PVC or Ductile Iron of sufficient length to provide two (2) feet of bearing on natural ground. The transition from ductile Iron to pvc pipe shall be made with an adapter coupling in R/W.

All trenches in existing or future rights-of-way shall be compacted according to V.D.O.T. standards.

WATER NOTES

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 or may not be shown in the

All trenches in existing or future highway right-of-ways shall be

Water main shall be minimum Class 52 Ductile Iron in accordance

to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

exact location. The contractor shall comply with the State Water Works

Lines shall be staked prior to construction.

Regulations, Section 12.05.03, where lines cross.

compacted according to V.D.O.T. standards.

Availability number 04-171

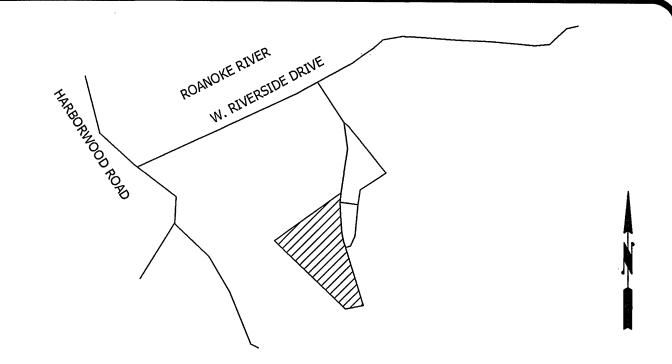
NAME OF DEVELOPMENT

MAGISTERIAL DISTRICT(S)

TAX MAP NO(S) 55.04

DEVELOPER (name, address, telephone)

Lines shall be staked prior to construction.



VICINITY MAP

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in (year)______2004 by LUMSDEN ASSUCIATES, PC

All elevations must be referenced to the National Geodetic Vertical Datum of 1929.

Source of topographic mapping is LUMSDEN ASSOCIATES, PC

Boundary was performed by LUMSDEN ASSOCIATES, PC dated<u>2004</u>

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

I ECEND

dated____2004

| | | *, | | | | | |
|----------|--|---|-----------------------------------|----------------|-------------------------|-------------|------------------------|
| | | | | | | | |
| | SURVEYED PROPERTY LINE | т | PROP. TELEPHONE LINE | A A A A A | CONCRETE | - O- | EX. POWER POLE |
| | PROPOSED PROPERTY LINE | G | PROP. GAS LINE | | ASPHALT PAVING | | EX. TELEPHONE |
| OHE | DEED PROPERTY LINE EXIST. OVERHEAD POWER | SAN | PROP. SANITARY SEWER LINE | | PAVEMENT REPLACEMENT | | EX. TELEPHONE PEDESTAL |
| W | EXIST. WATER LINE | Section Comments | PROP. STORM SEWER LINE | F. 1850 A. | GRAVEL |) | EX. LIGHT POLE |
| C | EXIST. OVERHEAD CABLE | · · · · · · · · · · · · · · · · · · · | PROP. CONTOURS | | PAVERS | 4 | BENCHMARK |
| | EXIST. CENTERLINE OF ROAD | appasable offenders valoring valoring apparatus | EXIST. 2' CONTOURS | | | \$ | |
| | EXIST. STORM SEWER | 345 | EXIST: 10' CONTOURS | <u></u> | WETLAND AREA | , | |
| SAN | EXIST. SANITARY SEWER | + 348.55 | PROP. SPOT ELEVATION | . . . | YARD LIGHT (S.M.H.) | | |
| ———UE——— | PROP. UNDERGROUND ELEC. LINE | x | SILT FENCE | 0 | TYPICAL YARD HYDRANT | | |
| UG | PROP. UNDERGROUND ELEC. SERVICE | ~~~~ | PROP. TREELINE | - - | PROP. FIRE HYDRANT | | |
| w | PROP. WATERLINE | | ₩: | ARV◀ . | PROP. AIR RELEASE VALVE | | |
| ———A——— | PROP. AUDIO CABLE | RMA | RESOURCE MANAGEMENT AREA BOUNDARY | ov k 4 | DDDD 0475 14415 | | |
| ~~~~ | EXIST. TREELINE | | RESOURCE PROTECTION AREA BOUNDARY | GV | PROP. GATE VALVE | | |
| | EXIST. EDGE OF PAVEMENT | > | DITCH LINE | вол | PROP. BLOW OFF VALVE | | |

SEE SHEET C12 FOR EROSION AND SEDIMENT CONTROL LEGEND.

COUNTY OF ROANOKE

DRAWING INDEX

COVER SHEET C05 EXISTING CONDITIONS & DEMOLITION PLAN SITE DIMENSIONAL & ON SITE UTILITY PLAN GRADING, EROSION, AND SEDIMENT CONTROL PLAN C05 ROAD & STORM PROFILES WATER LINE & STORM PROFILES ONSITE SANITARY SEWER PROFILES C07 C08 SWM PLAN & DETAILS C09 NOTES & DETAILS

> WATER LINE DETAILS SANITARY SEWER AND WATER DETAILS EROSION & SEDIMENT CONTROL DETAILS DEVELOPMENT PLAN

ngineering

Water & Sewer

Planning & Zoning

APPROVED FOR CONSTRUCTION BY ROANOKE COUNTY Department Development Review

Just 7-29-05

RRB 10/04/05

18/4/05

RIVERLAND VINEYARDS

OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APP-LICABLE COUNTY CODES, I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS. CATAWBA MAGISTERIAL DISTRICT UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

PARCEL NO(S) 04 & 56

GCT Development, LLC 4430 Old Cave Spring Rd. Contact: Dick Goodwin (540) 389-5070

GCT Development, LLC 4430 Old Cave Spring Rd. Contact: Dick Goodwin (540) 389-5070 DWNER (name, address, telephone)

BLOCK NO(S) 01

ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) BARNES GROGAN BOWER & TAYLOR DESIGN GROUP, PC, 201 EAST MAIN STREET, SUITE 100, SALEM, VIRGINIA 24153

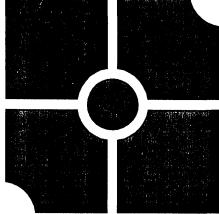
SHEET 1 OF 12

OWNER/DEVELOPER, AM AWARE

INSPECTOR'S AS - BUILTS

09/28/2006

WVWA ID# 6GWEXM



■ Barnes Grogan Bower & Taylor ■ DESIGN GROUP, PC LANDSCAPE ARCHITECTS • ENGINEERS • PLANNERS 201 E. Main Street Suite 100 Salem, Virginia 24153 Phone: 540.387.9100 Fax: 540.387-9101 www.bgbt-design.com

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REVISIONS:

| County Commen |
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| December 14, 200 |
| County & VDOT Commen February 9, 200 |
| February 9, 200 |
| WVWA Authori |
| March 17, 200 |
| County & VDOT Commen |
| March 30, 200 |
| |

DESIGNED BY: DRAWN BY: GST **CHECKED BY:**

SCALE: DATE: September 28, 2004

SHEET TITLE:

Cover Sheet

PROJECT NUMBER