

QUANTITY + COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
2" TYPE K COPPER WATERLINE	55	LF	\$10.00	\$550.00	\$550.00
NEW SANITARY SAMPLING MANHOLE	1	EACH	\$600.00	\$600.00	\$600.00
NEW SANITARY SEWER CLEANDOUT	1	EACH	\$125.00	\$125.00	\$125.00
6" SDR35 PVC SANITARY SEWER	55	LF	\$15.00	\$825.00	\$825.00
15" RCP	42	LF	\$25.00	\$1,050.00	\$1,050.00
15" END-SECTION, ES-1	2	EA	\$450.00	\$900.00	\$900.00
CONC. BUMPER BLOCKS	13	EA	\$75.00	\$975.00	\$975.00
CONC. CURB, CG-2	277	LF	\$13.00	\$3,601.00	\$3,601.00
HANDICAP RAMP	1	EA	\$800.00	\$800.00	\$800.00
6" HIGH STOCKADE FENCE	90	LF	\$6.00	\$540.00	\$540.00
2-IN. BIT. CONC. SURFACE COURSE, TYPE SM-95 AL	1,075	S.Y.	\$15.00	\$16,125.00	\$16,125.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21A					
1.5-IN. BIT. CONC. SURFACE COURSE, TYPE SM-95 AL	164	S.Y.	\$25.00	\$4,100.00	\$4,100.00
3-IN. ASPHALT CONC. BASE COURSE, VDOT TYPE BN-2					
8-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21A					
STANDARD COMMERCIAL ENTRANCE	1	EACH	\$1,500.00	\$1,500.00	\$1,500.00
RED MAPLE TREE	5	EACH	\$160.00	\$800.00	\$800.00
GREEN ASH TREE	2	EACH	\$135.00	\$270.00	\$270.00
RED SPRITE WINTERBERRY	34	EACH	\$15.00	\$510.00	\$510.00
HENRY'S GARNET SWEETSPICE	20	EACH	\$25.00	\$500.00	\$500.00
SUB-TOTAL				\$ 33,771.00	
10% CONTINGENCY				\$ 3,377.00	
TOTAL				\$ 37,148.00	
STORMWATER MANAGEMENT COST ESTIMATE TOTAL				\$ 5,324.00	
EJ				\$ 42,472.00	
I HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.					
SIGNED:	DATE:				

GENERAL NOTES

All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County, the 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 the 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 the 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 policies.

A permit must be obtained from the Roanoke City, prior to construction in the highway right-of-way.

Plan approval does not guarantee issuance of any permits by Roanoke City.

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 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 Roanoke City.

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.D.T. Standard SB-1.

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

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 contractor's 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 the Western Virginia Water Authority with correct As-Built plans before final acceptance.

All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority, and/or Roanoke City Inspectors.

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

100 year Floodway and Floodplain Information shall be shown where applicable.

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

INDEX

- SHEET SP-1 ROANOKE COUNTY COVER & NOTES
- SHEET SP-2 SITE LAYOUT, LANDSCAPING & UTILITY PLAN
- SHEET SP-3 GRADING, DRAINAGE & EROSION CONTROL PLAN
- SHEET SP-4 SITE DETAILS
- SHEET SP-5 ROANOKE COUNTY EROSION & SEDIMENT CONTROL DETAILS

PLEASE NOTE THE 2001 GENERAL ASSEMBLY REVISIONS TO VA EROSION & SEDIMENT CONTROL LAW EFFECTIVE JULY 1, 2001. ALL LAND DISTURBING PROJECTS THAT REQUIRE APPROVAL OF AN EROSION AND SEDIMENT CONTROL PLAN, GRADING PERMIT OR CLEARING PERMIT SHALL REQUIRE THAT THE APPLICANT PROVIDE THE NAME OF AN INDIVIDUAL, WHO WILL BE RESPONSIBLE FOR LAND DISTURBING ACTIVITIES, HOLDING A RESPONSIBLE LAND DISTURBER CERTIFICATE TO ROANOKE COUNTY. THE RESPONSIBLE LAND DISTURBER CAN BE ANYONE FROM THE PROJECT TEAM OR DEVELOPMENT TEAM HOLDING A RESPONSIBLE LAND DISTURBER CERTIFICATE THAT WILL BE IN CHARGE OF AND RESPONSIBLE FOR CARRYING OUT THE LAND DISTURBING ACTIVITY FOR THE PROJECT.

CERTIFIED LAND DISTURBER CERTIFICATE NUMBER

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 if necessary.

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 asbestos cement or concrete pipe shall be made with an adaptor coupling in R/W.

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

Lines shall be staked prior to construction.

All sewer facilities are to be installed according to the Western Virginia Water Authority design and construction 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 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 V.D.D.T. standards.

Lines shall be staked prior to construction.

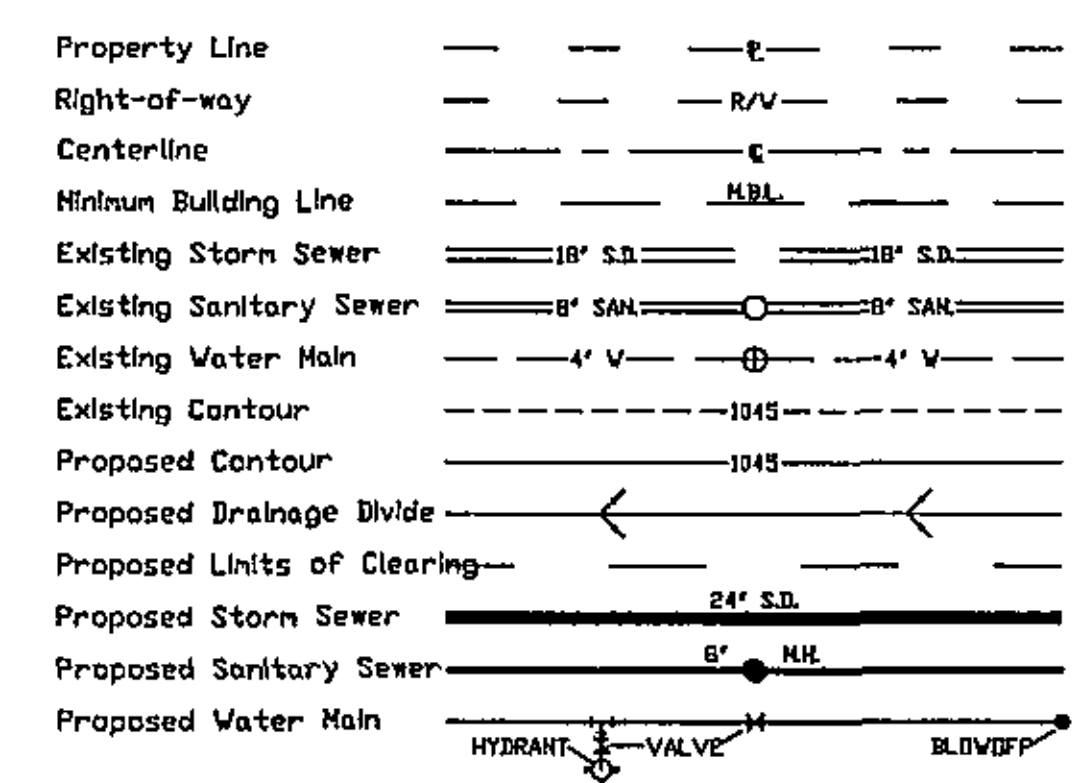
Water main shall be minimum Class 52 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

All water facilities are to be installed according to the Western Virginia Water Authority design and construction standards.

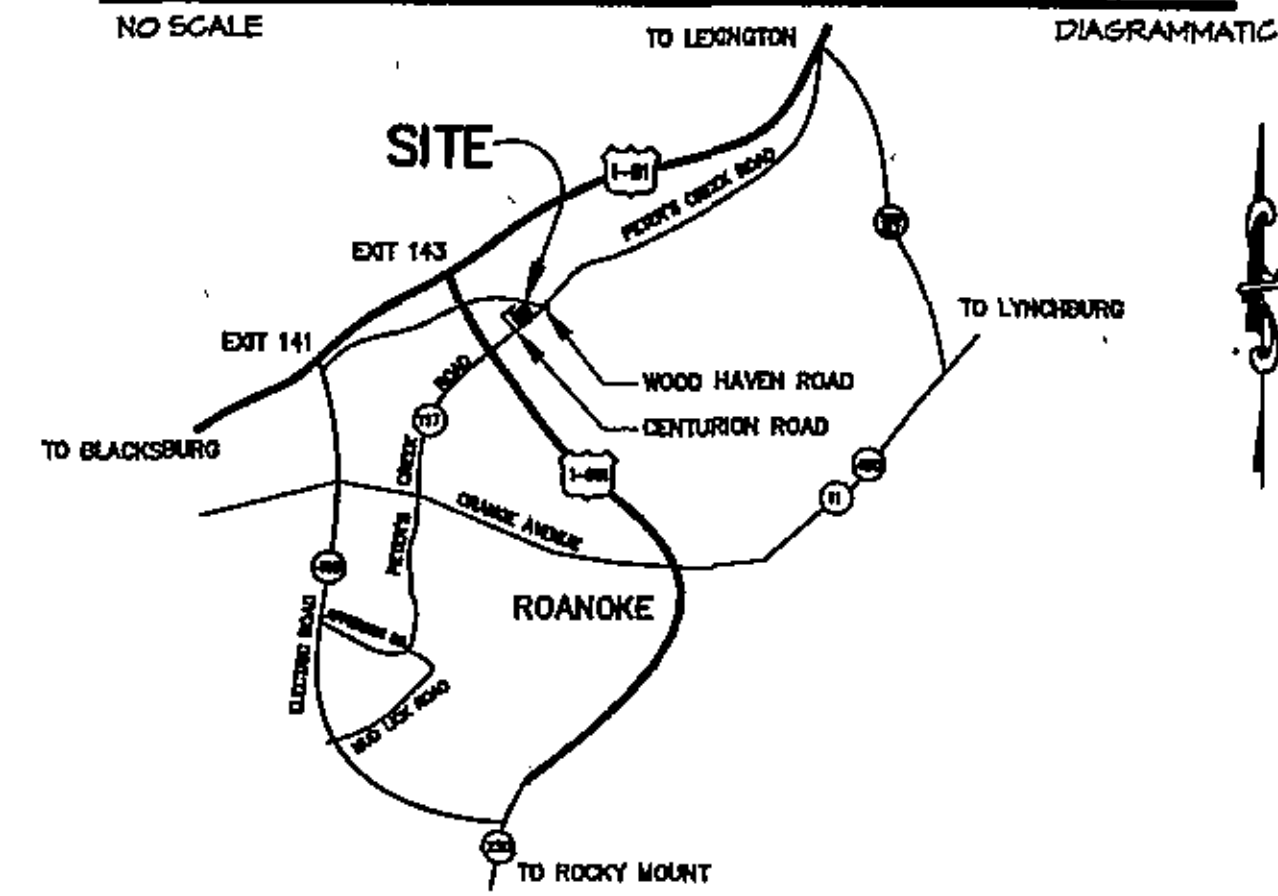
Contact Jamie Morris at 853-1588 to obtain an availability letter.

Availability number 05-213

LEGEND



VICINITY MAP



SURVEY INFORMATION

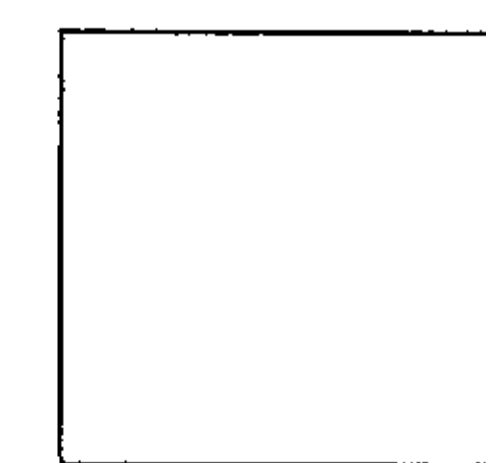
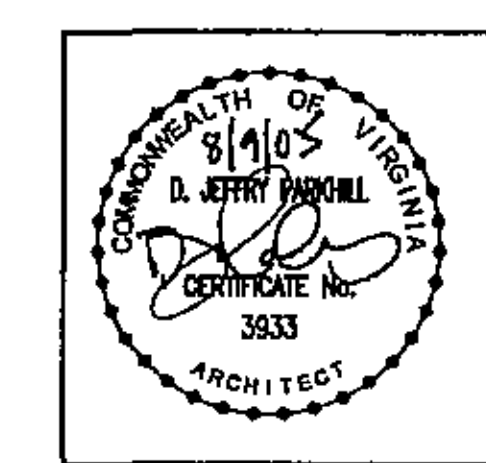
Horizontal and vertical control surveys were performed in _____ by ROANOKE COUNTY G.I.S. INFORMATION.

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

Source of topographic mapping is ROANOKE COUNTY G.I.S. INFORMATION dated _____.

Boundary was performed by PHILLIP W. NESTER dated AUGUST 29, 1987.

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



COUNTY OF ROANOKE

NAME OF DEVELOPMENT	NEW OFFICE BUILDING FOR GSS COMPUTER TECHNOLOGY	
MAGISTERIAL DISTRICT(S)	CATAMBA	
OWNER (name, address, telephone)	SCOTT & SNYDER SERVICE BUREAU INC P.O. BOX 14214 ROANOKE, VIRGINIA 24014	CONTACT: TIM SNYDER TEL. 540-362-7686
DEVELOPER (name, address, telephone)	SCOTT & SNYDER SERVICE BUREAU INC P.O. BOX 14214 ROANOKE, VIRGINIA 24014	CONTACT: TIM SNYDER TEL. 540-362-7686
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)	HUGHES ASSOCIATES ARCHITECTS 656 ELM AVENUE, S.W. P.O. BOX 1034 ROANOKE, VIRGINIA 24005	
TAX MAP NO(S)	03708-1-2	BLOCK NO(S) _____
PARCEL NO(S)	_____	

I, _____ OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE COUNTY CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS, UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

SHEET _____ OF _____