

QUANTITY + COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CURB INLET DI- 3C	2	EACH	1500	3,000	3,000
CURB INLET DI- 3B	2	EACH	1500	3,000	3,000
15 -IN. HDPE	353	LIN. FT.	18	6,354	6,354
24 -IN. CONCRETE PIPE, CLASS IV	52	LIN. FT.	28.50	1,482.00	1,482.00
15 -IN. END SECTION ES-1	1	EACH	300	300	300
24 -IN. END SECTION ES-1	1	EACH	450	450	450
RIPRAP - CLASS IA	150	S.F.	5	750	750
CG-12	2	EA	250	500	500
SIDEWALK	4150	S.F.	6	24,900	24,900
CURB & GUTTER CG- 6	980	LIN. FT.	12	11,760	11,760
2 -IN. BIT. CONC.: TYPE S-	1870	S.Y.	12	22,440	22,440
8 -IN. BASE MATERIAL	420	C.Y.	8	3,360	3,360
8" WATER LINE	500	LIN. FT.	18	9,000	9,000
FIRE HYDRANT ASSEMBLIES	1	EACH	1500	1,500	1,500
BLOW OFFS W/VAULT, FRAME & COVER	1	EACH	250	250	250
8 -IN. GATE VALVES, W/VAULT, FRAME & COVER	1	EACH	750	750	750
5/8" METER	16		150	2,400	2,400
8" SANITARY SEWER	800	LIN. FT.	21	16,800	16,800
STANDARD MANHOLE W/FRAME & COVER	5	EACH	1500	7,500	7,500
CLEANOUTS	16		100	1,600	1,600
AS-BUILT PLANS	1	LUMP SUM	2500	2,500	2,500
STORMWATER MANAGEMENT	1	LUMP SUM	7,500	7,500	7,500
				128,096	128,096
10% CONTINGENCY				12,809	12,809
ESTIMATED TOTAL				140,905	140,905

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 and/or the Virginia Department of Transportation.

The contractor or developer is required to notify the Roanoke County Engineering Division 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, 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 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 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 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 with correct As-Built plans before final acceptance.

All work shall be subject to inspection by Roanoke County and/or V.D.O.T. inspectors.

Field corrections shall be approved by the Roanoke County Engineering Division 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, culver, sanitary sewer and storm sewer.

INDEX

- C1 COVER SHEET
- C2 LAYOUT AND UTILITY
- C3 GRADING AND EROSION CONTROL PLAN
- C4 PROFILE SHEET
- C5 EROSION CONTROL DETAILS
- C6 GENERAL NOTES

REVISED 1-12-04 - PER ROANOKE COUNTY COMMENTS  
REVISED 12-18-03 - PER ROANOKE COUNTY COMMENTS  
REVISED 11-17-03 - PER ROANOKE COUNTY COMMENTS  
REVISED 05-29-03 - PER ROANOKE COUNTY/VDOT COMMENTS  
REVISED 04-11-03 - PER ROANOKE COUNTY COMMENTS  
REVISED 03-12-04 - ADJUST SAN. SEWER, STORM SEWER PROFILES

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 adapter coupling in R/W.

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

Lines shall be staked prior to construction.

All water and sanitary sewer facilities are to be installed according to the Roanoke County Water and Sanitary Sewer 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.O.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. Availability number 01-188B

All water and sanitary sewer facilities are to be installed according to the Roanoke County Water and Sanitary Sewer Design and Construction Standards.

LEGEND

Property Line	_____
Right-of-way	_____
Centerline	_____
Minimum Building Line	_____
Existing Storm Sewer	=====
Existing Sanitary Sewer	-----
Existing Water Main	_____
Existing Contour	---1155---
Proposed Contour	---1155---
Proposed Drainage Divide	-----
Proposed Limits of Clearing	-----
Proposed Storm Sewer	=====
Proposed Sanitary Sewer	-----
Proposed Water Main	_____

COUNTY OF ROANOKE

NAME OF DEVELOPMENT GLEN HAVEN SUBDIVISION

MAGISTERIAL DISTRICT(S) CATAWBA

OWNER (name, address, telephone) CORCOM LLC  
BARRY COMPTON  
2982 EMISSARY DR.  
ROANOKE, VA 24019  
PHONE: 562-1225

DEVELOPER (name, address, telephone) CORCOM LLC  
BARRY COMPTON  
2982 EMISSARY DR.  
ROANOKE, VA 24019  
PHONE: 562-1225

ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) BALZER AND ASSOCIATES, INC.  
1208 CORPORATE CIRCLE  
ROANOKE, VA 24018  
PHONE: 772-9580 FAX 772-8050

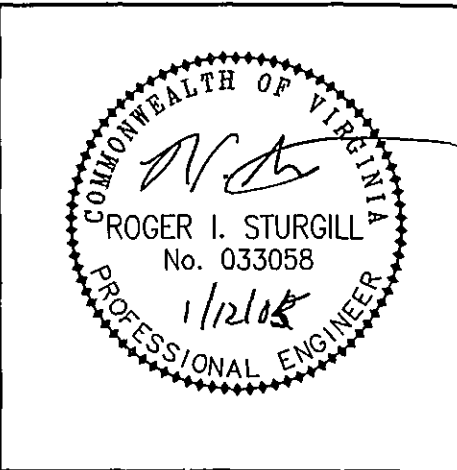
TAX MAP NO(S) 36.20 BLOCK NO(S) 1 PARCEL NO(S) 35&36

I, Barry Compton, 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.

AS - BUILT 7/28/2005

Contractor: S.C. Rossi & Co. Inc.

DEVELOPMENT PLAN APPROVED FOR CONSTRUCTION BY ROANOKE COUNTY		
Department		Date
Development Review	OK	7/29/05
Engineering	SDP	7/13/05
Water & Sewer	RBP	7/26/05
Planning & Zoning	GM	7/1/05



PROFESSIONAL ENGINEER  
SEAL AND SIGNATURE

I AM CERTIFIED BY THE STATE OF VIRGINIA AS A RESPONSIBLE LAND DISTURBER. I SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN AS SHOWN.

SIGNATURE Dan Rossi  
PRINTED NAME Dan Rossi  
CERTIFICATE DATE 7-27-07  
TELEPHONE NO. 342-6600  
ADDRESS 1410 16th St SE  
Roanoke, VA 24014

VICINITY MAP

N.T.S.

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in (year) 2003 by BALZER AND ASSOCIATES, INC.

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

Source of topographic mapping is BALZER AND ASSOCIATES, INC. dated JANUARY 2003

Boundary was performed by BALZER AND ASSOCIATES, INC. dated JANUARY 2003

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

BENCHMARK:  
IRON PIN SET AT NORTHERN CORNER  
ELEV = 118.50