QUANTITY + COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING	0.5	ACRES	\$1,000.00	\$1,000.00	
EXCAVATION		C.Y.			
EMBANKMENT	250	C.Y.	\$2,000.00	\$2,000.00	
CURB INLET DI-	5	EACH	\$3,000.00	\$15,000.00	
CURB INLET DI-		EACH			
MANHOLE MH-		EACH			
MANHOLE MH-		EACH			
-IN. CONCRETE PIPE, CLASS III	400	LIN. FT.	\$40.00	\$16,000.00	
-IN. CONCRETE PIPE, CLASS IV		LIN. FT.		V .0,000.00	
- 180 LF PVC ROOF DRAIN	180		\$20.00	\$3,600.00	
TOO LI TTO NOOF BIVIIN			*	***************************************	
-IN. C.M. CULVERT		LIN. FT.			
-IN. C.M. CULVERT		LIN. FT.			
0 002.12.11					
BOX CULVERT		LUMP SUM			
DON GOLYLINI		LOWE SUM			
PAVED DITCH		LIN. FT.			
I AYLU DIION		LIN. FI.			
RIPRAP — CLASS	0	C.F.	₫75.00	\$150.00	
NIFRAF - CLASS	2	S.F.	\$75.00	\$150.00	
CODDED OWN E	1000	ļ	#= 00	#5.000.00	
SODDED SWALE	1000	S.Y.	\$5.00	\$5,000.00	
IN. CONCRETE ENDWALL EW		EACH			
-IN. END SECTION ES-		EACH			
			·		
HEADER CURB & GUTTER CG-		LIN. FT.			
CURB & GUTTER CG-	1000	LIN. FT.	\$12.00	\$12,000.00	
VALLEY GUTTER		EACH			
GRAVEL BASE		S.Y.			
GRAVEL SHOULDER	200	S.Y.	\$15.00	\$3,000.00	
SURFACE TREATMENT	2,000	S.Y.	\$7.00	\$14,000.00	
-IN. BIT. CONC.: TYPE B-		S.Y.			
-IN. BIT. CONC.: TYPE S-		S.Y.			
-IN. BASE MATERIAL	2,000	C.Y.	\$7.00	\$14,000.00	
-IN. SUBBASE MATERIAL	2,000	C.Y.	\$5.00	\$10,000.00	
TRAFFIC BARRICADE		EACH			
8" WATER LINE	25	LIN. FT.	\$20.00	\$500.00	
6" WATER LINE		LIN. FT.			
FIRE HYDRANT ASSEMBLIES	1	EACH	\$1,000.00	\$1,000.00	
BLOW OFFS W/VAULT, FRAME & COVER		EACH			
-IN. GATE VALVES, W/VAULT, FRAME & COVER		EACH			
-IN. GATE VALVES, W/VAULT, FRAME & COVER		EACH			
		<u> </u>			_
WATER VAULT	1	EACH	\$14,700.00	\$14,700.00	
8" SANITARY SEWER	300	LIN. FT.	\$20.00	\$6,000.00	
CONNECTION	1	EACH	\$2,250.00	\$2,250.00	
STANDARD MANHOLE W/FRAME & COVER		EACH			
SAMPLING MANHOLE/PORT	1	EACH	\$3,000.00	\$3,000.00	
		<u> </u>			
AS-BUILT PLANS	2,000	LUMP SUM		\$2,000.00	
AS -DOILI FLANS	2,000	LUMP SUM		Ψ ∠, υυυ.υυ	
					
		-			
STORMWATER MANAGEMENT		LUMP SUM	#70 000 00	#70 000 CO	
STOTIVITY AT LIVE IVIAINAGENIEN I	1	LUMP SUM	\$30,000.00	\$30,000.00	
SITE LANDSCADING				#0E 000 00	
SITE LANDSCAPING				\$25,000.00	
10% CONTINCENCY				A 40 015 55	<u> </u>
10% CONTINGENCY	1	I	1	\$18,410.00	ı [-

ESTIMATED TOTAL

GENERAL NOTES

All construction methods and materials shall conform to the Construction Standards and Specifications of Rognoke County and/or the Western Virginia Water Authority and 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 autter 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

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 reauired 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 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 V.D.O.T. inspectors.

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

DESCRIPTION

CONSTRUCTION DETAILS

E&S NOTES & DETAILS

STORM WATER DETAILS

SUGGESTED MAINTENANCE

DRAINAGE AREAS

ROADWAY DESIGN

TYPICAL SECTIONS

OF TRAFFIC PLAN

ROADWAY DETAILS

LANDSCAPE PLAN

LANDSCAPE PLAN

100 year floodway and floodplain information shall be shown where

INDEX

DESCRIPTION

ROANOKE COVER SHEET

GRADING AND DRAINAGE

EXISTING CONDITIONS

PHASE I E&S PLAN

COVER SHEET

DEMOLITION

SITE PLAN

UTILITY PLAN

PAVING PLAN

GENERAL NOTES

UTILITY DETAILS

UTILITY DETAILS

\$184,100.00

SEWER NOTES

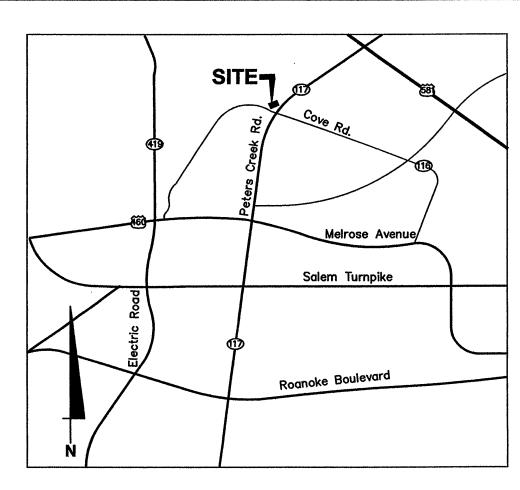
All sanitary sewer facilities shall be installed according to the Western Virginia Water Authority Design and Construction Standards.

A minimum cover of three (3) feet is required over proposed lines.

manholes after paving. Manhole tops shall be adjusted to grade

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 V.D.O.T. standards.



VICINITY MAP

WATER NOTES

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 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 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.

Availability letter number ______05-206

LEGEND

Property Line		
Right-of-way		R/W · ·
Centerline		
Minimum Building Line		M.B.L.
Existing Storm Sewer	18" S.D	18" S.D
Existing Sanitary Sewer	8* SAN	8" SAN.
Existing Water Main	4" W	——————————————————————————————————————
Existing Contour		- —1045— — — — — — —
Proposed Contour		1045
Proposed Drainage Divide		
Proposed Limits of Clearing	ı ——— · ——	
Proposed Storm Sewer		24" S.D.
Proposed Sanitary Sewer		8" M.H.
Proposed Water Main	HYDRANT VALV	/E BLOWOFF

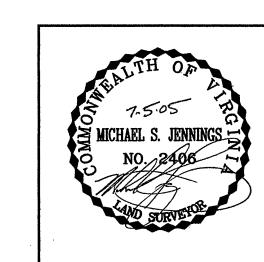
SURVEY INFORMATION

The professional seal and signature below certifies the boundary survey and topographic

Boundary was performed by <u>JENNING STEPHENSON, P.C.</u>

dated JULY 5, 2005

mapping to be accurate and correct.



PROFESSIONAL ENGINEER SEAL AND SIGNATURE

COUNTY OF ROANOKE

NAME OF DEVELOPMENT CVS/PHARMACY		I,OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APP—		
MAGISTERIAL DISTRICT(S) CATAWBA	MAGISTERIAL DISTRICT	LICABLE COUNTY CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS, UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW		
OWNER (name, address, telephone)	ROB HARGETT, 1020 BON AIR RD. RICH	HMOND, VA (804) 560-0500		

DEVELOPER (name, address, telephone)

THE REBKEE COMPANY, 1020 BON AIR RD. RICHMOND, VA

ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)

KIMLEY-HORN AND ASSOCIATES, 1500 FOREST AVENUE. RICHMOND, VA

TAX MAP NO(S) 37.17-1-4, 37.17-1-5, 3717-1-3BLOCK NO(S)

SHEET NO. CS2

WVWA ID# 6QGM9D

(Latest Edition).

Contractor shall be responsible for locating and uncovering all

All existing utilities may not be shown or may not be shown in their

Lines shall be staked prior to construction.