	TY & COST		UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING	QUANTITY	UNIT	UNII PRICE	<u> </u>	DOMONDEE
EXCAVATION		C.Y.			
EMBANKMENT		C.Y.			
CURB INLET DI-		EACH			
OURB INLET DI-		EACH			
MANHOLE MH-		EACH			
WANHOLE MH-		EACH			<u> </u>
A SCANOEYE PAGE OF ACC TH		LIN FT			
-IN. CONCRETE PIPE, CLASS III	 	LIN. FT			
-IN CONCRETE PIPE, CLASS IX	 	-1			
•					
-IN C M. CULVERT		LIN. FT.			
- IN C.M. CULVERT	<u> </u>	LIN. FT	-		
					
	 				
BOX CULVERT		WMP SUM			
	 				
PAVED DITCH		LIN. FT			
RIPRAP - CLASS		S.F.			
SODDED SWALE		S.Y.			
- IN CONCRETE ENDWALL EW-		EA.			
	<u> </u>				
-IN END SECTION ES-		EA.			
					•
DRIVEWAY, ENTRANCE TYPE		EACH			
SIDEWALK, - FT WIDE		LIN, FT			<u> </u>
TRAIL, - FT WIDE		LIN. FT.			
					<u>.</u>
HEADER CURB & GUTTER CG -		LIN. FT			
CURB & GUTTER CG-		LIN. FT		ļ <u> </u>	
VALLEY GUTTER		EA			
GRAVEL BASE	4	S.Y.			<u> </u>
· · · · · · · · · · · · · · · · · · ·			<u> </u>		
GRAVEL SHOULDER		S.Y.			
SURFACE TREATMENT	_	S.Y.			
- IN. BIT CONC.: TYPE B-	-	S.Y.		<u> </u>	
-IN. BIT. CONC.: TYPE S-		S.Y.			
-IN. BASE MATERIAL		C.Y.			
-IN SUBBASE MATERIAL		C.Y.		 _	
					
STREET SIGNS		EA.			
TRAFFIC BARRICADE	 	EA			
CHORG AC CHAMBLE AND ALL	 	EA.		 	-
PIPES AS SHOWN ON PLAT					
MONUMENTS AS SHOWN ON PLAT		EA.	 		
		/ IAI - E-T	 		
- IN WATER LINE		LIN FT.			1
- IN WATER LINE	 	LIN. FT		 	1
	 	unt rt	<u> </u>		
FIRE LANGE ASSESSMENT	+	EA.	 		1
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER	 	EA. EA			
والمناز	+	EA		 	
-IN GATE VALVES W/VAULT, FRAME & COVER	+	EA			1
-IN GATE VALVES W/VAULT, FRAME & COVER		EA.	 -	<u> </u>	
SERVICE CONNECTIONS		EA			1
	1		 		
3 -IN SAM SEWER	478	LIN FT.	14.0	6692	1
6 -IN SAN SEWER	48	LIN FT.	14.0	672	
		LIN. FT.			
- IN. SAN, SEWER	+		<u> </u>		
- IN SAN SEWER		EA	1300	6500	
ر بدان المستود و الم 	5				
STO, MANHOLE W/FRAME & COVER	5	EA	250	1500	E
ر بدان المستود و الم 	5		250	1500	
STO, MANHOLE W/FRAME & COVER			250	1500	
STO, MANHOLE W/FRAME & COVER			250		
STO, MANHOLE W/FRAME & COVER SERVICE CONNECTIONS W/ CLEANOUTS AS-BUILT PLANS		EA	250	550 15,914	
STO, MANHOLE W/FRAME & COVER SERVICE CONNECTIONS W/ CLEANOUTS		EA LUMP SUM	250 10%	550	

GENERAL NOTES

All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County and/or The Virginia Department of Highways and 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
- 1. Placing any roadway surface
 J. Installing water lines

K Installing sanitary sewer lines

A preconstruction conference should be scheduled with the Roanoke County Engineering Division, to be held at least one day prior to any construction.

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

A permit must be obtained from the V.D.H. & 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.H. A.T.

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

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 min. CBR of 10. CBR tests are to be performed by the engineer and submitted to the VDH&T and to the Roanake County Engineering Division prior to placement. CBR values (10 will require revised pavement sections

All roadside ditches or grades of more than 5% shall be paved with cement concrete to the limits 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 the V.D.H. & T.

All springs shall be capped and piped to the nearest storm sewer or natural water course. The pipe shall be 6" min dia, and conform to V.D.H.&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 receptable 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, but not more than fen working in advance. Area public utilities may be notified thru. Miss Utility (800) 552-7001

The developer or contractor shall supply the county with correct As-Built plans before final acceptance.

Field corrections shall be approved by the Roanoke County Engineering Division prior to such construction

All work shall be subject to inspection by Roanoke County and/or VDH. 8.T inspectors

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

100 year flood way and flood plain shall be shown where applicable

SURVEY INFORMATION

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

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 the exact location. The contractor shall comply with 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.H. & T. standards.

Lines shall be staked prior to construction

Water mains shall be class 50 mm, ductile iron pipe.

APPROURD, Frankie W. Kehr. 1/26/93



LEGEND

Property Line		Æ		
Right -of - way				
Centerline		<u> </u>	, a	
Minimum building line			M.B.L.	
Exist storm sewer				== 18"S.O.=========
Exist sanitary sewer	8"SAN.===		-	== 6"9AN ====
Exist water main	4"W			4"W
Exist contour			1045	
Prop contour			1045	•
Prop. drainage divide				
Prop. limits of clearing				······································
Prop storm sewer		24° 5.0		
Prop sanitary sewer	8"		M,R	
Prop water main	·	- VAL		BLOWOFF
	HYDRAN	1	, T	

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 ar 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 on a minimum grade of 1/4 inch to 1 foot in R/W

Laterals from manholes shall be PV.C. 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 highway right of ways shall be compacted according to V.D.H. & T. standards.

SC-0283

Lines shall be staked prior to construction

1833	COUNTY OF ROANOKE
NAME OF DEVELOPMENT	ROBERT J. MILLER
MAGISTERIAL DISTRICT(S)	HOLLINS
OWNER (name, address, telephone)	
DEVELOPER (name, address, telephone)	POBERT J MILLER 1235 CRUTCHFIELD ST. 362-0311
E NGINEER, ARCHITECT OR SURVEYOR (n	ome, address, phone) JACK G. BESS CERTIFIED LAND SURVEY OR 5422 STARKEY ROAD 989-8855
TAX MAP NO(S) 27. 1	2BLOCK NO(S)