DVA JOB NO. A.19802X NOT TO SCALE DRAWING

SHEET <u>1</u> OF <u>18</u>

HURT
*ENGINEERING >> SURVEYING>> PLANNING **C** PROFFITT INCORPORATED 2524 LANGHORNE ROAD

OUANTITY + COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING		ACRES			,
EXCAVATION		C.Y.			
EMBANKMENT		C.Y.			
2022 200 22 20					
CURB INLET DI-		EACH			
CURB INLET DI-		EACH			
			-		
MANHOLE MH-		FACIL		 	
MANHOLE MH-		EACH EACH			
TATIVIDEE 181		LHC11			
		1	 		
-IN. CONCRETE PIPE, CLASS III		LIN, FT,			
-IN. CONCRETE PIPE, CLASS IV		LIN, FT,			
	-				
				· ·	
-IN. C.M. CULVERT		LIN. FT.			
-IN. C.M. CUL∨ERT		LIN. FT.			
				·	
B□X CULVERT		LUMP SUM			
				···	
PAVED DITCH		LIN. FT.	<u> </u>		
DIDDAD OLACS				· · · ·	
RIPRAP - CLASS		S,F,			
CEDDED CVALE				·····	
SODDED-SWALE		S,Y,			
THE OFFICE FURNISHED FOR		<u> </u>	ļ		
-IN. CONCRETE ENDWALL EW-		EACH			
-IN. END SECTION ES-		FACU		· · · · · · · · · · · · · · · · · · ·	
-IN. END SECTION ES-	<u> </u>	EACH			
					
HEADER CURB & GUTTER CG-		I TAL ET			
CURB & GUTTER CG-		LIN. FT.			
VALLEY GUTTER		EACH			
GRAVEL BASE		S.Y.	<u> </u>		
UNIVER DROL		3,1,			
GRAVEL SHOULTER		S,Y,			
SURFACE TREATMENT		S.Y.			
-IN. BIT. CUNC.: TYPE B-		S.Y.		_	
-IN, BIT, CONC.: TYPE S-		S.Y.			
-IN. BASE MATERIAL		C.Y.			
-IN. SUBBASE MATERIAL		C.Y.			
				<u>. </u>	
TRAFFIC BARRICADE		EACH			
8" WATER LINE		LIN. FT.			
6" WATER LINE		LIN. FT.			
FIRE HYDRANT ASSEMBLIES	!	EACH			
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>		
ON CANITADY SEVED		. *			
8" SANITARY SEWER		LIN, FT.			
STANDADD MANUEL SAME A COME			-		······································
STANDARD MANHOLE W/FRAME & COVER		EACH			·
SAMPLING MANHOLE/PORT		EACH			
AS-BUILT PLANS		LIIMD CITA		<u> </u>	
IO DOTE : FUINO		LUMP SUM			·
					<u>. </u>
					·
STORMWATER MANAGEMENT		LUMP SUM			
·					
	-				· · · · · · · · · · · · · · · · · · ·
10% CONTINGENCY					
					<u> </u>
			_		<u> </u>
TOTAL TED TETAL			- -		 .
ESTIMATED TOTAL					

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 (V.D.O.T.).

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

- Installation of approved erosion control devices
- Clearing and grubbing Subgrade excavation
- Installing storm sewers or culverts Setting curb and gutter forms

Installing sanitary sewer lines

- Placing curb and gutter
- Placing other concrete
- Placing gravel base Placing any roadway surface Installing water lines

"Miss Utility": 1-800-552-7001.

C000 COVER SHEET

C101 GRADING PLAN

C103 UTILITY PLAN

L100 LANDSCAPE PLAN

C100 SITE PLAN

any construction.

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

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 through

The developer or contractor shall supply Roanoke 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, Western Virginia Water Authority and/or V.D.O.T. inspectors. Field corrections shall be approved by the Roanoke County Engineering Division, and the

100 year floodway and flood plain information shall be shown where applicable.

Western Virginia Water Authority prior to such construction.

C001 EXISTING CONDITIONS AND DEMOLITION PLAN

C201 COVE ROAD IMPROVEMENTS PLAN AND PROFILE

C204 WATER LINE RELOCATION PLAN AND PROFILE

C205 4" DIP WATER LINE RELOCATION PLAN AND PROFILE

C300 EROSION AND SEDIMENT CONTROL DETAIL SHEET

C102 EROSION AND SEDIMENT CONTROL PLAN

C202 SANITARY SEWER PLAN AND PROFILE

C203 STORM WATER SEWER PROFILE

C301 SITE AND UTILITY DETAIL SHEET

Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer Site lighting design shall conform to Roanoke County standards.

A separate "sign" permit is required by Roanoke County. Prior to construction of the proposed sign, design criteria etc. shall be reviewed and approved by the County. All Pipe Culverts located in VDOT Right of Way and Easements shall conform to 2001 VDOT Roadway and Bridge Standards.

Contractor shall repair or replace any existing structures damaged during connection to the structure or other work in VDOT Right of Way.

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C302 ROANOKE COUNTY EROSION AND SEDIMENT CONTROL DETAIL SHEET

VDOT approval of these plans expires (3) three years from date of approval.

C200 MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL PLAN

C303 WESTERN VIRGINIA WATER AUTHORITY SEWER DETAIL SHEET

C304 WESTERN VIRGINIA WATER AUTHORITY WATER DETAIL SHEET

SEWER NOTES

All water and sanitary sewer facilities are to 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.

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.

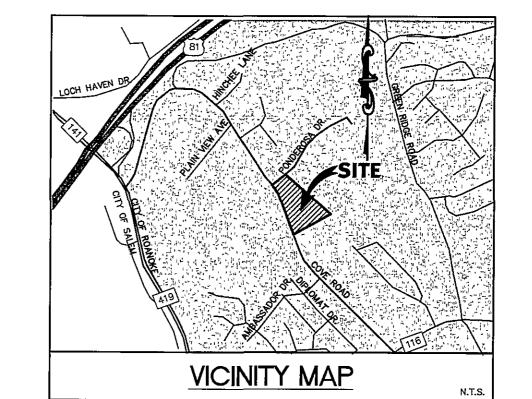
House connections are to be made with 4" pipe installed at a minimum grade of 1/4 inch to 1 foot in Right of Way (R/W).

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 sanitary sewer connections to existing lines shall be coordinated with and performed by the Western Virginia Water Authority.



WATER NOTES

All water and sanitary sewer facilities are to 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.

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. All water connections to existing lines shall be coordinated with and performed by the Western Virginia Water Authority.

Availability number: ____

Proposed Limits of Clearing——

Proposed Storm Sewer

Proposed Water Main

Proposed Sanitary Sewer

Property Line	— · · · — · · — · · — · · · — · · · — · · · — · · · — · · · — · · · — · · · · — ·
Right-of-way	
Centerline	——————————————————————————————————————
Minimum Building Line	
Existing Storm Sewer	18' S.D18' S.D
Existing Sanitary Sewer	8' SAN. 8' SAN. ====
Existing Water Main	— —4' W— — —— ——4' W— —
Existing Contour	
Proposed Contour	1045
Proposed Drainage Divide	$\overline{}$

HYDRANT YALVE

LEGEND

SURVEY INFORMATION

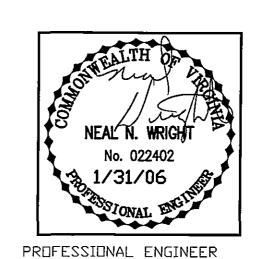
Horizontal and vertical control surveys were performed in 2004 by HORIZONTAL CONTROL BY HURT & PROFFITT. INC IN 2004.

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

Source of topographic mapping is AERIAL TOPOGRAPHICAL INFORMATION ROANOKE COUNTY AND FIELD SURVEY PERFORMED BY HURT & PROFFITT, INC. dated: DEC. 29, 2004.

Boundary was performed by HURT & PROFFITT, INC. dated revised <u>12/29/04</u>

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



SEAL AND SIGNATURE

COUNTY OF ROANOKE

SITE PLAN NAME OF DEVELOPMENT ROANOKE COUNTY PUBLIC SAFETY BUILDING

MAGISTERIAL DISTRICT(S) CATAWBA DISTRICT

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

OWNER (name, address, telephone) ROANOKE COUNTY BOARD OF SUPERVISORS, 5925 COVE ROAD, ROANOKE, VIRGINIA (540) 772-2065

DEVELOPER (name, address, telephone) ROANOKE COUNTY, DAN O'DONNELL, 5204 BERNARD DRIVE, ROANOKE, VIRGINIA 24018 (540) 772-2065

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

HURT & PROFFITT, INC, 2524 LANGHORNE RD., LYNCHBURG VIRGINIA, 24501. 800-242-4906 TOLL FREE, MAIN: (434)-847-7796, FAX: (434)-847-0047

036.16-01-11.01-0000 TAX MAP NO(S)

BLOCK NO(S) _

PARCEL NO(S)

DEVELOPMENT PLAN **APPROVED** FOR CONSTRUCTION BY ROANOKE COUNTY Department Date evelopment Review lanning & Zoning

434.847.7796 MAIN 434.847.0047 FAX